

>MANUAL2 Putative Blo t 1.02 Manual Entry [*Blomia tropicalis*]

MKFLLVAAALCALVAIGSCKPTREEIKTFEQFKKVFVKVYRNAEEEEARREHHFKEQLKWVE
EHNGIDGVEYAINESDMSEQEFHLSGGGLNFTYMKMEAAKEPLINTYGSLPQNFDR
QKARLTRIRQQGACGSCWAFAAAGVAESLYSIQKQQSIGLSEQELVDCTYNRYDPSYQCN
GCGSGYSTAEFKYMIRTGLVEERNYPYNMRTQWCDPVEGQRYHVSGYQQLRYHSSDEDV
MYTIQQHGPVVIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVGWGTVQGVYWIIR
NSWGTGWGNGGYYGYVERGHNSLGINNYVTYATL

>MANUAL3 Allergen Gal d 6; vitellogenin I, partial sequence [*Gallus gallus*]

PEIASQIAQEDQSTCEVSKGDFKTFDRMSFTCSFNKSCNVVVAQDCTEHPKFIITTRKVD
HQLSREVVHINTSSANITICPAADSSLLVTCNKESVLSDSGVSEYEKDNIKIYKNGKTVI
VEAPIHGLKNVNFEDGEILKVTVASWMRGKTCGVCNNNDREKHNELLMPNHKLHSCSAFV
HSWVLLLEETCSGGCKLQRRYVKLNRNPTIDGEESTCYSVDPVLKCMKDCTPIEKTSVKVG
FHCFCATAVSLLEWQRSSDKKSAEDVVEVDADIDCTCTGDCS

>FG438715.1 Putative Act d 9.0101 [*Actinidia deliciosa*]

MSWQTYVDDHLMCEIEGNYLTSAAIIGQDGSWAQSASFQPKPEEITAIMNDFSEPGTL
APTGLYLGGTKYMVIQGEAGAVIRGKKGPGGVTVKKTNQALIIGIYDEP

>CAA32835.1 Allergen Bos d 5; beta-lactoglobulin [*Bos taurus*]

MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
VCMENSAEPEQSLVCQCLVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>CAA68720.1 Allergen Can f 5; arginine esterase [*Canis familiaris*]

MWFLALCLAMSLGWTGAEPHFQPRIIGGRECLKNSQPWQVAVYHNGEFACGGVLVNPEWV
LTAHCANSNCEVWLGRHNLSESEDEGQLVQVRKSFHPLYKTKVPRAVIRPGEDRSHDL
MLLHLEEPAKITKAVRVMDLPKKEPPLGSTCYVSGWGSTDPEFIFHPGSLQCVDLKLKLSN
NQCAKVYTQKVTKFMLCAGVLEGKKDTCCKGDSGGPLICDDELVGITSWGATPCGKQMPMS
LYTRVMPHLMWIKDTMKANT

>CAA26038.1 Allergen Api m 4; melittin [*Apis mellifera*]

MKFLVNVALVFMVVYISYIYAAPEPEPEPEAEADAEADPEAGIGAVLKVLTGLPALI
SWIKRKRQQG

>CAA35692.1 Allergen Der p 5; unknown [*Dermatophagoides pteronyssinus*]

LFLNKDPKPLKKISIMKFIIAFFVATLAVMTVSGEDKKHDYQNEFDLLEMERIHEQIKK
GELALFYLQEQINHFEEKPTKEMKDKIVAEMDTIIMIDGVRGVLDRMLQQRKDLDFEQY
NLEMAKKSGLDILRDLKKEEARVKKIEV

>CAA34486.1 Allergen Act d 1; cysteine protease (actinidin) [*Actinidia deliciosa*]

MGLPKSFVSMSELLFFSTLLILSLAFNAKNTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRFGQVLPSYVDWRSAGAVVDIKSQGECGCWAFSAIATVEGINKIVTGVLSLSEQELI
DCGRTQNTTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGEENLDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVLDAAGDAFKHYSSGIFTGPCGT AIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGAGTTCGIATMPSYPVKYNNQNHKPKPYSSLINPP
AFSMSKDGVPVDDGQRYSA

>CAA46782.1 Allergen Bra r 1; 2S abumin [*Brassica rapa*]

MANKLFLVSATLALFFLLTNASVYRTGSEFDEHDATNPAGPFRIPKCRKEFQQAQHLKAC
QQWLHKQAMQSGSPSWTLTLDGEFD FEEDMENTQGPQQEPPLLQCCNELHQEEPLCVCPT
LKGASKAVKQVRRQQGQQQMQQVISRIYQTSTHLPRVCNIRQVSICPFQKTMPPGSPY

>CAA33887.1 Allergen Bet v 1 - like [*Betula pendula*]

MGVFNYETETTSVIPARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

>CAA35691.1 Putative Beta-conglycinin, alpha subunit-like [*Glycine max*]

MMRARFPLLLLGLVFLASVSVSFGIAYWEKENPKHNKCLQSCNSERDSYRNQACHARCNL
LKVEKEECEEGEIPRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEHEQR
EEQEWPRKEEKRGEGKSEEEDEDEDEEQDERQFPFPRPPHQKEERNEEEDEDEEQRESE

ESESELRRHKNKNPFLFGSNRFETLFGNQQYGRIRVLQRFNQRSPQLQNLDRDYRILEFNS
KPNTLLLPHADADYLIVILNGTAILSLVNNDDRDSYRLQSGDALRVPSGTTYVYVNPNDN
NENLRLITLAIPVKNKGRFESFLLSSTEAAQQSYLQGFNRNILEASYDTKFEEINKVLFNR
EEGQQQGEQRLQESVIVEISKEQIRALSRAKSSSRKTISSEDKPFNLRSRDPYISNKLK
KFFEITPEKNPQLRDLDFLSIVDMNEGALLLPHFNSKAIVILVINEGDANIELVGLKEQ
QQEQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNFFAIGINAENNQRNFLA
GSQDNVISQIPSQVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSI
LRAFY

>CAA26575.1 Putative Glycinin A2B1a subunit-like [Glycine max]

MAKLVLSLCFLLFSGCFALREQAQQNECQIQKLNALKPGNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLNRRNALRRPSYTNQPQEIYIQQGNIGFMIFFPGCPSTYQEPQESQQRGRS
QRPQDRHQKVHRFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQQGGSSQSQKQKQEEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGLRVTAPAMRKPQEEEDDDDEEQQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGLRKNAMF
VPHYTLNANSIYALNGRALVQVNCNGERVFDGELQEGGVLPVQNFVA AAKSQSDNFE
YVSFKTNDRPSIGNLAGANSLLNALPEEVIQHTFNLKSQQARQVKNNNPFSFLVPPQESQ
RRAVA

>CAA26723.1 Putative Glycinin-like [Glycine max]

MAKLVFSLCFLLFSGCCFAFSSREQPQQNECQIQKLNALKPGNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLNRRNALRRPSYTNQPQEIYIQQGGIFGMIFPGCSSTFEPPQQPQR
GQSSRPQDRHQKIYNSREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKQKHQEEENEGGSILSGFTLEFLEHAFVSDKQIA
KNLQGENEGEDKGAIVTVKGLSVIKPPTDEQQQRPEEEEEEEDEKQCKGKDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNGQTSSPDIYNPQAGSVTTATSLDFPALS WLRLSAG
FGSLRKNAMFVPHYNLNANSIYALNGRALIQVNCNGERVFDGELQEGRVLPVQNFV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNP
KFLVPPQESQKRAVA

>CAA33217.1 Allergen Gly m 6; glycinin/11S globulin [Glycine max]

MAKLVLSLCFLLFSGCCFAFSSREQPQQNECQIQRLNALKPDNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLNRRNALRRPSYTNAPQEIYIQQGGIFGMIFPGCPSTFEPPQQKQGS
SRPQDRHQKIYHFREGDLIAVPTGFAYWWMYNNEDTPVVAVSLIDTNSFNQQLDQMPRRFY
LAGNQEQEFLQYQPQKQQGGTQSQKGRQEEENEGGSILSGFAPEFLEHAFVVDQRIVR
KLQGENEEEEKGAIVTVKGLSVISPTTEEQQQRPEEEEEKPCDEKDKHCQSQSRNGIDE
TICTMRLRHNGQTSSPDIFNPQAGSITTATSLDFPALS WLKLSAQFGSLRKNAMFVPHY
NLNANSIYALNGRALVQVNCNGERVFDGELQEGQVLPVQNFVA AARSQSDNFEYVSF
KTNDRPSIGNLAGANSLLNALPEEVIQQTFNLRQARQVKNNNPFSFLVPPKESQRRVV
A

>CAA37044.1 Putative glycinin [Glycine max]

MGKPFSLSSLLCLLLLSSACFAISSKLNELNNALEPDHRVEFEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSYSPYPRMIIIAQGGKALQCKPGCPETFEPPQEQRNR
RGRSRSQKQLQDSHQKIRHFNEGDVLVIPPVVPYWTYNTGDEPVVAISLLDTSNFNQLD
QTPRVFYLAGNPDIETMPPQQQKSHGGRKQGHQEEEEEGGSVLSGFSKHFLAQS
FNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQDEDEDEDEDEDEDEQIPSHPPR
RPSHGKREQDEDEDEDEDEKPRPSRPSQKREQDQDQDEDEDEDEDEDEDEQPRKSREWRSKKTQP
RRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPALR
QFQLSAQYVVLKNGIYSPHWNLNANSVIYVTRGQKVRVNCQGNVFDGELRRGQLLV
VPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDVFRAPSEVLAHSYNLRQSQVSELKY
EGNWGPLVNPESQQGSPRVKVA

>CAA42646.1 Allergen Gly m 4; pathogenesis-related protein/PR 10/ Bet v 1- like protein [Glycine max]

MGVVTFEDESINSPVAPATLYKALVTDADNVIPKALDSFKSVENVEGNGGPGTIKKITFLE
DGETKFLVKIESIDEANLGYSYSVVGGAALPDTAEKITFDSKLVAGPNGGSAGKLTVKY
ETKGDAPNQDELKTGKAKADALFKAIEAYLLAHPDYN

>CAA45777.1 Putative trypsin inhibitor subtype A [Glycine max]

MKSTIFFALFLCAFTTSYLPSAIADFLVDNEGNPLENGGTYIILSDITAFGGIRAAPTG
NERCPLTVVQSRNELDKGIGTIISSPYRIRFIAEGHPLSLKFDSFAVIMLCVGIPTESV
VEDLPEGPAVKIGENKDAMDGWFRLEVRSDDEFNNYKLVFCPQQAEDDKCGDIGISIDHD
DGTRRLVVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>CAA45778.1 Putative trypsin inhibitor subtype B [*Glycine max*]

MKSTIFFALFLCAFTTSYLPSAIADFLVDNEGNPLDSGGTYIILSDITAFGGIRAAPTG
NERCPLTVVQSRNELDKGIGTIISSPFIRIRFIAEGNPLRLKFDSFAVIMLCVGIPTESV
VEDLPEGPAVKIGENKDAVDGWFRLEVRSDDEFNNYKLVFCTQQAEDDKCGDIGISIDHD
DGTRRLVVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>CAA39880.1 Allergen Hev b 1; rubber elongation factor [*Hevea brasiliensis*]

MAEDEDNQQGQGEGLKYLGFVQDAATYAVTTFSNVYLFKDKSGPLQPGVDIIEGPVKNV
AVPLYNRFSYIPNGALKFVDSTVVASVTIHDRSLPPIVKDASIQVVS AIRAAPEAARSLA
SSLPGQTKILAKVfyGEN

>CAA41956.1 Allergen alpha-amylase inhibitor [*Hordeum vulgare* subsp. *vulgare*]

MASKSSITPLLLAAVLASVFAAAAATGQYCYAGMGLPSNPLEGCREYVAQQTGVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHCRCRVRYFIGRRSHPDWRVLKDLPGCPKEPQRDFAK
VLVTPGQCNVLTVHNAPYCLGLDI

>CAA45085.1 Allergen Hor v 15; alpha-amylase, partial [*Hordeum vulgare* subsp. *vulgare*]

PTSVAVDQGSMSVNSPGEWCWPGMGYPVYFPFRCRALVKSQCAGGQVVESIQKDCCRQIA
AIGDEWCICGALGSMRGS MYKELGVALADDKATVAEVFPGCRTEVMDRAVASLPAVCNQY
IPNTNGTDGVCYWLSYYQPPRQMSSR

>CAA46705.1 Allergen CMe [*Hordeum vulgare* subsp. *vulgare*]

MAFKYQLLLSAAVMLAILVATATSFQDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCCDELSAIPAYCRCEALRIIMQGVVTWQGA FEGAYFKDSPNCPREPRQTSYAANL
VTPQECNLGTIHGSAYCPELQPGYGVVL

>CAA42832.1 Putative LTP 1 [*Hordeum vulgare*]

MARAQVLLMAAALVLMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECCNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNVPYTISPDI DCSRFTERR
SVKLVLSSSHVEL

>CAA38097.1 Allergen Ric c 1; 2S albumin [*Ricinus communis*]

MAKLIPTIALVSLLFIANASFA YRTTITTTIEIDESKGEREGSSSQCRQEVQRKDLSS
CERYLRQSSRRSPGEEVLRMPGDENQQQESQQLQCCNQVKQVRDECQCEAIKYAEDQ
IQGQLHGEESERVAQRAGEIVSSCGVRCMRQTRTNPSQQGCRGQIQEQQLRQCQEYIK
QQVSGQGP RRSDNQERSLRGCCDHLKQMMSQCRCEGLRQAIEQQQSQGQLQGQDVFEAFR
TAANLPSMCGVSPTECRF

>CAA31575.1 Allergen patatin B2 (AA 1 - 386) [*Solanum tuberosum*]

MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPF AA AKDIVPFYFEHGPHIFNYS GSI
LGP MYDGKYLQVLQEKLG ETRVH QALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPPHFVTHTSNGARYEFNLVDGAVATVGD PALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAE EAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYL RVQENALNGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>CAA27571.1 Allergen patatin [*Solanum tuberosum*]

MATTNSFTILIFMILATTSSTFATLGEMVTVLSIDGGGIKGIIPATILEFLEGQLQEVDN
NTDARLADYFDVIGGTSTGGLLTAMITTPNETNRPF AA AKDIVPFYFEHGPKIFQSSGSI
FGPKYDYGKYLQVLQEKLG ETRVH QALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPTFFPPHYFATNTSNGDKYEFNLVDGAVATVDDPALLSISVATKLAQVDP
KFASIKSLNYKQMLLLSLGTGTTSEFDKTYTAEETAKWG TARWMLVIQKMTSAASSYMTD
YYLSTAFQALDSQNNYL RVQENALTGTTTELDDASEANMQLLVQVGEDLLKKS VSKDNPE
TYEEALKRFAKLLSDRKKLRANKASY

>CAA27588.1 Allergen patatin [*Solanum tuberosum*]

MATTKSFLILFFMILATTSSTCATLGEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPF AA AKDIVPFYFEHGPHIFNYS GSI

FGPRYDYGKYLQLVLEKLGTRVHQALTEVAISSFDIKTNKPVIFTKSNLAESPQLDAKM
YDICYSTAAAPIYFPPHVFVTHTSNGATYEFNLVDGAVATVGDPELLSLSVATRLAQDDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALGTTTTEMDDASEANMELLVQVGETLLKPKVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>CAA35238.1 Allergen Alpha/beta gliadin-like protein product [Triticum aestivum]

MKTFLILALLAIVATTARIAVRVPVPLQLPQNPSQQQPQEQVPLVQQQPFPGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQFPQPQLPYPQPQLPYPQPQLPYPQPQFRPQQPYPQSQPQ
YSQPQQPISQQQQQQQQQQQQKQQQQQQQQILQQILQQQLIPCRDVVLQQHSIAYGSSQV
LQQSTYQLVQQQLCCQQLWQIPEQSRCQAIHNVVHAILHQQQQQQQQQQQPLSQVSFQQ
PQQQYPSGQGSFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAP
VGIFGTN

>CAA35598.1 Allergen Alpha amylase inhibitor-like protein product [Triticum aestivum]

MASKSSISPLLLATVLLVSVFAAATATGPYCYAGMGLPINPLEGCREYVAQQTCGISISGS
AVSTEPGNTPRDRCKELYDASQHCRCQAVRYFIGRRSDPNSSVLKDLPGCPREPQRDFA
KVLVTSGHCNVMTVHNAPYCLGLDI

>CAA42453.1 Allergen Tri a 40; alpha amylase inhibitor [Triticum aestivum]

MASKSNYNLLFTALLVFIFAAVA AVGNEDCTPWTSTLITPLPSCRNYVEEQACRIEMPGP
PYLAKQECCEQLANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMNFPVILVTP
GYCNLTTVHNTPYCLGMEESQWS

>CAA35597.1 Allergen Tri a 30; alpha amylase inhibitor [Triticum aestivum]

MACKSSCSLLLLAAVLLSVLAAASASGSCVPGVAFRTNLLPHCRDYVLQQTCTFTPGSK
LPEWMTSASIYSPGKPYLAKLYCCQELAEISQQCRCEALRYFIALPVPSQPVDPRSGNVG
ESGLIDLPGCPREMQWDFVRLLVAPGQCENLATIHNVRYPACPAVEQPLWI

>CAA43331.1 Allergen high molecular weight glutenin subunit 1Ax1 [Triticum aestivum]

MTKRLVLFAAVVVALVALTAAEGEASGLQCERELQEHSLKACRQVVDQQLRDVVSPECQP
VGGGPVARQYEQVVPKGGSFYPGETTPPQQLQQSILWGIPALLRRYYLSVTSPQQVS
YYPGQASSQRPGQGQPGQGQEQEYLTSPQQSGQWQQPGQGQAGYYPTSPQQSGQEQPGY
YPTSPWQPEQLQQPTQGQQRQPGQGQQLRQGQQGQSGQGQPRYYPTSSQQPGQLQQLA
QGQQGQQPERGQQGQSGQGQQLGQGQQGQPGQKQQSGQGQQGYYPISPQQLGQGQQSG
QGQLGYYPSTPQQSGQGQSGYYPTSAQQPGQLQQSTQEQLGQEQDQQSGQGRQGQQSG
QRQQDQQSGQGQPGQRQPGYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQPEQGGQ
QGQQPEQGGQQGQPGQGEQGGQPGQGQQGQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQ
QSGQLQQPAQGGQPGQEQGGQPGQGQQGQPGQGQPGQPGYYPTSPQQSGQEQQLE
QWQQSGQGQPGHYPTSPLQPGQGQPGYYPTSPQQIGQGQPGQLQQPTQGQQGQPGQGQ
QGQQPGQGQQGQPGQGQPGQGQPGYYPTSLQQSGQGQPGQWQQPGQGLPGYYPTSSL
QPEQGQQGYYPSTSPQQPGQPGQWQQSGQGQQGYYPSTSPQQSGQGQPGQWLQPGQWL
QSGYYLTSPQQLGQGQPRQWLQPRQGQQGYYPSTSPQQSGQGQQLGQGQQGYYPSTPQQS
GQGQQGYDSPYHVS AEHQAASLKVAKAQQLAALPAMCRLEGGDALLASQ

>CAA31396.1 Allergen high molecular weight glutenin subunit 10 [Triticum aestivum]

MAKRLVLFAAVVIALVALTAAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVVPPKGGSFYPGETTPLQQLQGIFWGTS
SQTVQGYYPGVTS PRQGSYYPGQASPQQPGQGQPGKQWQEPGQGQWYYPTSLQQPGQGQ
QIGKGGQGYYPSTLQQPGQGQGGYYPTSLQHTGQRQPVQGGQPEQGQPGQWQQGYYP
SPQQLGQGQPRQWQQSGQGQGHYPTSLQQPGQGQGHYLASQQQPGQGQGHYPASQQ
QPGQGQGHYPASQQQPGQGQGHYPASQQEPGQGQGGQIPASQQQPGQGQGHYPASLQ
QPGQGQGHYPTSLQQLGQGQQTGQPGKQQPGQGQQTGQGQQPEQEQQPGQGQGGYYPT
SLQQPGQGQGGQGGQGGYYPTSLQQPGQGQGHYPASLQQPGQGQPGQRQPGQGQHPEQ
GKQPGQGQGGYYPTSPQQPGQGQQLGQGQQGYYPSTSPQQPGQGQPGQGQGHYPTSPQQ
SGQAQQPGQGQGGQGGVQPGQGQGGYYPTSVQQPGQGQSGQGQSGQGHQPGQGQSGQ
EQGGYDSPYHVS AEQQAASPMVAKAQQPATQLPTVCRMEGGDALSASQ

>CAA25593.1 Allergen Alpha/beta gliadin-like protein product [Triticum aestivum]

MKTFLILVLLAIVATTATTAVRFPVPLQLPQNPSQQQPQEQVPLVQQQFLGQQQPFPPQ
QPYPQPQPFPSQLPYLQLQFPQPQLPYSQPQFRPQQPYPQPQPYSQPQQPISQQQQQ

QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNAHGRSQVLLQOSTYQLLQELCCQHL
WQIPEQSQCQAILKVVHAILHQQKQQQQPSSQVVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>CAA26383.1 Allergen Gliadin-like protein product [Triticum aestivum]

MKTFLILALLAIVATTATTAVRVPVPQPQPQNPSQPQPQGVPLVQQQQFPGQQQQFPPQ
QPYPQPQPFPSQQPYLQLQFPQPQPFPPLPYQPFPSPQPYPQPQPQYPQPQPIS
QQQAQQQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNAHARSQVLLQOSTYQP
LQQLCCQQLWQIPEQSRCQAIHNVVHAILHQQRQQQPSSQVSLQQPQQQYPSGQGFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTIAPFGIFGTN

>CAA26384.1 Allergen Gliadin-like protein product [Triticum aestivum]

MKTFLILVLLAIVATTATTAVRFPVPLQQPQNPSQQQPQEQVPLVQQQQFLGQQQPFPQ
QPYPQPQPFPSQLPYLQLQFPQPQLPYSQPQQFRPQQPYPQPQPQYSQPQQPISQQQQ
QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNAHGRSQVLLQOSTYQLLQELCCQHL
WQIPEQSQCQAIHNVVHAILHQQKQQQQPSSQVVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>CAA26385.1 Allergen Gliadin-like protein product [Triticum aestivum]

MKTFLILALVATTATTAVRVPVPLQPKNPSQQQPQEQVPLVQQQQFPGQQQQFPPQQPY
PQPQPFPSQQPYLQLQFPQPQPFLPQLPYQPQSFPPQPYPQQRPMYLQPQQPISQQQ
AQQQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNAHASSQVLLQOSTYQLLQQL
CCQQLLQIPEQSRCQAIHNVVHAIIMHQEQQQQLQQQQQQQLQQQQQQQQQQQPSSQV
SFQQPQQQYPSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>CAA31685.1 Putative LMW glutenin-like protein product [Triticum aestivum]

MKTFLVFALLAVAATSAIAQMETRCIPGLERPWQQQPLPPQQTFFQQPLFSQQQQQQLFP
QQPSFSQQQPPFWQQQPPFSQQQPILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSP
FPQQQQHQQLVQQQIPVVQPSILQQLNPKVFLQQQCSPVAMPQRLARSQMLQSSCHV
MQQQCCQQLPQIPQSRYEAIRAIIYSIILQEQQVQGSIQSQQQQPQLGQCVSQPQQQ
SQQQLGQQPQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTSVPGV
GTGVGAY

>CAA26847.1 Allergen HMW glutenin-like protein product [Triticum aestivum]

MAKRLVLFAAVVIALVALTTAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVPVPPKGSFYPGETTPLQQLQQGIFWGTS
SQTVQGYPSVTSPRQGSYYPGQASPQQPGQGGQPGKWQEPGQGGQWYYPTSLQQPGQQG
QIGKKGQGYPTSLQQPGQQQIGQGGQGYPTSPQHTGQRQQPVQGGQIGQGGQPEQGG
QPGQWQQGYPTSPQLGQGGQPGQWQQSGQGGQGHYPTSLQQPGQGGQGHYLASQQQPA
QGQGGHYPASQQQPGQGGQGHYPASQQQPGQGGQGHYPASQQEPGQGGQGPASQQQPG
QGQGGHYPASLQQPGQGGHYPTSLQQLGQGGQIGQPGQKQPGQGGQQTGGQGGQPEQEQP
GQGGQGYPTSLQQPGQGGQGGQGGQGYPTSLQQPGQGGQGHYPASLQQPGQGGQPGQ
RQQPGQGHPEQGGQPGQGGQGYPTSPQQPGQGGQQLGQGGQGYPTSPQQPGQGGQPGQ
GQGGHCPMSPQQTGQAQQLGQGGQIGQVQQPGQGGQGYPTSLQQPGQGGQSGQGGQSGQ
GHQPGQGGQSGQEKQGYDSPHYHVSAAEQQAASPMVAKAQQPATQLPTVCRMEGGDALSASQ

>CAA30570.1 Putative LMW glutenin-like protein product [Triticum aestivum]

MKTFLVFALLALAAASAVAQISQQQAPPFSQQQPPFSQQQPPFSQQQQSPFSQQQQQ
PPFAQQQPPFSQQPPISQQQPPFSQQQPPFSQQQPPYSQQQPPYSQQQPPFSQQ
QQPPFSQQQQPPFTQQQQQQQQQQPPFTQQQQPPFSQQPPISQQQPPFLQQRPPFSRQ
QQIPVIHPSVLQQLNPKVFLQQQCIPVAMQRCLARSQMLQQSICHVMQQCCQQLRQIP
EQSRHESIRAIISIIILQQQQQQQQQQQQQQGQSIIQYQQQQPQLGQCVSQPLQQLQQ
LGQQPQQQLAHQIAQLEVMTSIALRTLPTMCSVNVPLYETTTSVPLGVGIGVGVY

>CAA24934.1 Allergen HMW glutenin-like protein product [Triticum aestivum]

LVSVEHQAARLKVAKAQQLAQLPAMCRLEGGDALSASQ

>CAA34709.1 Putative precursor (AA -24 to 119) [Triticum turgidum subsp. durum]

MASKSNCVLLLA AVLVSIFA AVAAIGNEDCTPWMSTLITPLPSCRDYVEQQACRIETPGS
PYLAKQCCGELANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMDFVRILVTP
GYCNLTTVHNTPYCLAMEESQWS

>CAA39099.1 Allergen CM2 protein [Triticum turgidum subsp. durum]
MASKSSITHLLLA AVLVS VF AAAAAATGPYCYPGMGLPSNPLEGCREYVAQQT CGVGIVGVS
PVSTEPGNTPRDRCKELYDASQHCRCEAVRYFIGRTSDPNSGVLKDLPGCPREPQRDFA
KVLVTPGHCNVMTVHNTPYCLGLDI

>CAA36063.1 Putative glutenin-like protein product [Triticum turgidum subsp. durum]
MKTFLVFALLAVVATSTIAQMETS SCIPLERPWQEQLPPQHTLFPQQQPPFPQQQPPFS
QQQPSFLQQQPILPQLPFSQQQQPVLPQQSPFSQQQLVLPPQQQYQQVLQQQIPVQPSV
LQQLNPCKVFLQQQCNPVAMPQRLARSQMLQQSSCHVMQQQCCQQLPQIPEQSRVDVIRA
ITYSIILQEQQQGFVQAQQQQPQQQLGQGVVSQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQ
VLQGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSTTSVPFSVGTGVGAYL

>CAA44473.1 Putative LMW glutenin [Triticum turgidum subsp. durum]
MKTFLVFALLAVVATSIAQMDTSCIPLERPWQQQPLPPQQTFFPQQPPFSQQQQQQPFP
QQPSFSQQQPILPQGPPFPQQTQPVLPPQQSPFSQQQQLLPQQQQQLPQQQISIVQPSV
LQQLNPCKVFLQQQCSVAIPQRLARSQMWWQSSCHVMQQQCCQQLSQIPEQSRYDAIRA
ITYSIILQEQQQGSQQQQPQQSGQGVVSQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQVQ
QGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSTTSVPFGV

>CAA43361.1 Allergen HMW glutenin subunit 1By9 [Triticum aestivum]
MAKRLVLFATVVITLVALTAAEAGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRPVAVSQVVRQYEQTVPKGGSFYPGETTPLQQLQVIFWGTG
SQTVQGYYPSSPQQGPYPGQASPQQPGQGGQPGKWQELGQGGQGYPTSLHQSGQGG
QGYYPSSLQQPGQGGQIGQGGQGYPTSLQQPGQGGQIGQGGQGYPTSPQHPGQRQQPG
QGQQIGQGGQQLGQGRQIGQGGQSGQGGQGYPTSPQQLGQGGQPGQWQQSGQGGQGYPT
SQQQPGQGGQGYPASQQQPQGGQGGQYPASQQQPQGGQGGQYPASQQQPQGGQGGHYLA
SQQQPGQGGQQRHYPASLQQPGQGGQGHYASLQQPGQGGQGHYPASLQQVGGQGGQIGQLG
QRQQPGQGGQTRQGGQLEQGGQPGQGGQTRQGGQLEQGGQPGQGGQGYPTSPQQSGQGG
QPGQSGQGGQGGQGYSSSLQQPGQGLQGHYPASLQQPGQGHYPGQRQQPGQGGQPEQGGQ
PGQGGQGYPTSPQQPGQGGKQLGQGGQGGYPTSPQQPGQGGQGGQGGHCPTSPQQTGQ
AQQPGQGGQIGQVQQPGQGGQGYYPISLQQSGQGGQGGQGGQGGHQLGQGGQGGQGGQGG
GYDNPYHVNTEQQTASPKVAKVQQPATQLPIMCRMEGGDALSASQ

>CAA50325.1 Allergen Cor a 1; pathogenesis-related protein /PR-10 /Bet v 1- like protein [Corylus avellana]
MGVFNYEAETTSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNNGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEIKGAKEMA EKLLRAVETYLLAHS AEYN

>CAA50326.1 Allergen Cor a 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Corylus avellana]
MGVFNYEVETPSVISAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNNGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLGDKLEKVCSELKIVAAPGGGSTLKISSK
FHAKGDHEINAEEMKGAKEMA EKLLRAVETYLLAHS AEYN

>CAA50327.1 Allergen Cor a 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Corylus avellana]
MGVFNYEVETPSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNNGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMA EKLLRAVETYLLAHS AEYN

>CAA50328.1 Allergen Cor a 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Corylus avellana]
MGVFNYEVETPSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNNGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLGDKLEKVCSELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMA EKLLRAVETYLLAHS AEYN

>CAA23681.1 Allergen Ovalbumin-like protein [Gallus gallus]
MGSIAAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTRTQINKV VRF
DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPILPEYFQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTN

>CAA23711.1 Allergen Gal d 4; lysozyme [Gallus gallus]
MRSLLILVLCFLPLAALGKVFGRCELAAAMKRHGLDNYRGYSLGNWVCVAKFESNFNTQA
TNRNTDGSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNC AKKIVSDG
NGMSAWVAWRNRCKGTDVQAWIRGCR L

>CAA43098.1 Allergen Gal d 5; serum albumin [Gallus gallus]

MKWVTLISFIFLSSATSRNLQRFARDAEHKSEIAHRYNDLKEETFKA VAMITFAQYLQR
CSYEGLSKLVKDVVDLAQKCVANEDAPECSKPLPSIILDEICQVEKLRDSYGAMADCCSK
ADPERNECFLSFKVSPDFVQPYQRPASDVICQEYQDNRSFLGHFIYSVARRHPFLYAP
AILSFAVDFEHALQSCCKESDVGACLDTKEIVMREKAKGVSVKQQYFCGILKQFGDRVFO
ARQLIYLSQKYPKAPFSEVSKFVHDSIGVHKECCEGDMVECMDDMARMMSNLCSQQDVFS
GKIKDCCEKPIVERSQCIMEAEFDEKPADLPSLVEKYIEDKEVCKSFEAGHDAFMAEFVY
EYSRRHPEFSIQLIMRIAKGYESLLEKCKTDNPAECYANAQEQLNQH IKETQDVVKTNC
DLLHDHGEADFLKSILIRYTKKMPQVPTDLLLETGKKMTTIGTKCCQLGEDRRMACSEGY
LSIVIHDTCRKQETTPINDNVSQCCS QLYANRRPCFTAMGVDTKYVPPFPNPD MF SFDEK
LCSAPAEEREVGQMKLLINLIKRPQMTEEQIKTIADGFTAMV DKCKQSDINTCFGEEG
ANLIVQSRATLGIGA

>P23110.1 Putative Albumin-8 precursor (Methionine-rich 2S protein) (SFA8) [*Helianthus annuus*]
MARFSIVFAAAGVLLVAMAPVSEASTTTITTTIIEENPYGRGRTESGCYQQMEEAEMLN
HCGMYLMKNL GERSQVSPRMREEDHKQLCCMQLKNLDEKCMCPA IMMMLNEP MWIRMRDQ
VMSMAHNLP IECNLM SQPCQM

>P04403.2 Allergen 2S sulfur-rich seed storage protein precursor (Allergen Ber e 1) [*Bertholletia excelsa*]
MAKISVAAAALLVLMALGHATAFRATVTTTVVEEENQEECREQMQRQQMLSHCRM YMRQQ
MEESPYQTPRRGM EPHMSECCQELEGMDESCRCEGLRMMMMRMQQEEMQPRGEQMRRMM
RLAENIP SRCNLSPMRCPMGGSIAGF

>P27759.1 Allergen Pollen allergen Amb a 1.1 precursor (Antigen E) (AgE) (Antigen Amb a I) [*Ambrosia artemisiifolia*]

MGIKHCCYILYFTLALVTLLQPVRS AEDLQEILPVNETRRLTTS GAYNIIDGCWRGKADW
AENRKALADCAQGF GKT VGGKDGDIYTVTSELDDDVANPKEGTLRFGAAQNRPLWIIFE
RDMVIRLDKEMV VNSDKTIDGRGAKVEIINAGFTLNGVKNVIIHNINMHDVKVNP GGLIK
SNDGPAAPRAGSDGDAISISGSSQI WIDHCSLSKSV DGLVDAKLGTTRLTVSNLFTQH Q
FVLLFGAGDENIEDR GMLATVAFNTFTDNVDQRMPCR HGFQVVNNNYDKWGSYAIGGS
ASPTILSQGNRFCAPDERSKKNVLGRHG EAAAESMKWNWR TNKDVLENGAIFVASGVDPV
LTPEQSAGMIPAE PGESALSTSSAGVLS CQPGAPC

>P27760.1 Allergen Pollen allergen Amb a 1.2 precursor (Antigen E) (Antigen Amb a I) (AaBA protein) [*Ambrosia artemisiifolia*]

MGIKHCCYILYFTLALVTLLQPVRS AEDVEEFLPSANETRRLSLKACEAHNIIDK CW RCKA
DWANNRQALADCAQGF AKGT YGGKHGDVYTVTSDKDDDVANPKEGTLRFAAAQNRPLWII
FKRNMVIHLNQELV VNSDKTIDGRGVKNIVNAGL TLMNVKNIIHNINIHDIKVCPGGM
IKSNDGPPILRQ QSDGDAINVAGSSQI WIDHCSLSKASDGLLDITLGSSHVTVSNCKFTQ
HQFVLLLGADDTHYQDKGMLATVAFNMFTDHVDQRMPCRFRGFFQVVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDI IKNVLARTGTGNAESMSWNWR TDRDLENGAIFLPSGSD
PVLTP EQKAGMIPAE PGEAVLRLTSSAGVLS CHQPGAPC

>P27761.1 Allergen Pollen allergen Amb a 1.3 precursor (Antigen E) (Antigen Amb a I) [*Ambrosia artemisiifolia*]

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDK CW RCKAD
WENNRQALADCAQGF AKGT YGGKWDVYTVTSLNDDDVANPKEGTLRFAAAQNRPLWII
KNDMVINLNQELV VNSDKTIDGRGVKVEIINGGL TLMNVKNIIHNINIHDVKVLP GGM I
KSNDGPPILRQ ASDGDTINVAGSSQI WIDHCSLSK SFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIG
SSAPTILCQGNRFLAPDDQ IKNVLARTGTGAAESMAWNWRSDKDLENGAIFVTS GSDP
VLT P VQSAGMIPAE PGEAAIKLTSSAGVFSCHPGAPC

>P28744.1 Allergen Pollen allergen Amb a 1.4 precursor (Antigen E) (Antigen Amb a I) [*Ambrosia artemisiifolia*]

MGIKHCCYILYFTLALVTLLQPVRS AEDLQ QILPSANETRSLTTCGTYNIIDGCWRGKAD
WAENRKALADCAQGF AKGT IGGKGDYIYTVTSELDDDVANPKEGTLRFGAAQNRPLWII
ARDMVIRLDRELAINNDKTIDGRGAKVEIINAGFAIYNVKNIIHNIIIMHDIVVNP GGLI
KSHDGPPVPRKGS DGAIGISGSSQI WIDHCSLSKAVDGLIDAKHGSTHFTVSNCLFTQH
QYLLLFWDFDERGMLCTVAFNKFTDNVDQRM PNLRHGFVQVVNNNYERWGSYALGGSAGP
TILSQGNRFLASDIKKEVVGRYGESAMSESINWNWR SYMDVFENGAIFVPSGVDPVLTPE
QNAGMIPAE PGEAVLRLTSSAGVLS CQPGAPC

>P27762.1 Allergen Amb a 1; pectate lyase [*Ambrosia artemisiifolia*]

MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGNCAQGFQKATHGGKWDIYMVTSQDDDDVVNPKEGTLRFGATQDRPLWIIF
QRDMIIYLQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNVHNIHDIHDVRLVPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLKSXFDGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPRCRFGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSGAPC

>P22284.1 Putative Pollen allergen KBG 31 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MDKANGAYKTALKAAASAVAPAEKFPVFQATFDKNLKEGLSGPDAVGFAGKLLDAFIQTSYL
STKAAEPKEKFDLFLVLSLTEVLRFMAGAVKAPPASKFPAKPAKVAAYTPAAPAGAAPKA
TTDEQKLEKINVGFKAAVAAAAGVPAASKYKTFVATFGAASNKAFAEALSTEPKGAAVA
SSKAVLTSKLDAAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHGVKPAEEV
KAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYQSYKFI
ALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAVTGTATSAVGAA
TGAATAAAGGYKV

>P22285.1 Putative Pollen allergen KBG 41 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MAVHQYTVLFLVALVAGPAASYAADVGYGAPATLATPATPAAPAAGYTPAAPAGAAPK
ATTDEQKLEKINAGFKAAVAAAAGVPAVDKYKTFVATFGTASNKAFAEALSTEPKGA
ASSNAVLTSLKLDAAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHGVKPA
VKAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYQSYKFI
PALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAVTATATGAVGA
ATGAVGAATGAATAAAGGYKTGAATPTAGGYKV

>P22286.1 Putative Pollen allergen KBG 60 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MAVQKYTVLFLVALVVGPAASYAADLSYGAPATPAAPAAGYTPAAPAGAAPKATTDEQK
MIEKINVGFKAAVAAAAGVPAANKYKTFVATFGAASNKAFAEALSTEPKGAAVDSSKAAL
TSKLDAAAYKLAYKSAEGATPEAKYDDYVATLSEALRIIAGTLEVHGVKPAEEVKATPAG
ELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYQSYKFI
KQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAAATGTATAAVGAATGAATA
AAGGYKV

>P02878.1 Pollen allergen Amb a 5 (Amb a V) (Allergen Ra5) [Ambrosia artemisiifolia var. elatior]
LVPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSEICSKKCGK

>P10414.2 Putative Pollen allergen Amb t 5 precursor (Amb t V) (Allergen Ra5G) [Ambrosia trifida]
MKNIFMLTLFILITSTIKAIGSTNEVDEIKQEDDGLCYEGTNCGKVGKYCCSPIGKYCV
CYDSKAICNKNCT

>P20723.1 Putative RecName: Full=Enterotoxin type D; AltName: Full=SED; Flags: Precursor [Staphylococcus aureus]

MKKFNILIALFFFTSLVISPLNVKANENIDSVKEKELHKKSELSSTALNNMKHSYADKNP
IIGENKSTGDQFLENTLLYKFFFTDLINFEDLLINFNSKEMAQHFKSKNVDVYPIRYSIN
CYGGEIDRTACTYGGVTPHEGNKLERKKIPINLWINGVQKEVSLDKVQTDKKNVTVQEL
DAQARRYLQKDLKLYNNDTLGGKIQRGKIEFDSSDGSKVSYDLFDVKGDFPEKQLRIYSD
NKTLSSTEHLHIDIYLYEK

>P02229.2 Allergen Chi t 1; hemoglobin CTT-III precursor [Chironomus thummi thummi]
MKFLILALCFAAASALSADQISTVQASFDKVKGDPVGILYAVFKADPSIMAKFTQFAGKD
LESIKGTAPFEIHANRIVGFFSKIIGELPNIEADVNTFVASHKPRGVTHDQLNNFRAGFV
SYMKAHTDFAGAEAAWGATLDTFFGMIFSKM

>P02230.1 Allergen Chi t 1; hemoglobin CTT-IV [Chironomus thummi thummi]
MKLLILALCFAAASALTADQISTVQSSFAGVKGDAVGILYAVFKADPSIQAKFTQFAGKD
LDSIKGSADFSAHANKIVGFFSKIIGDLPNIDGDVTTFVASHTPRGVTHDQLNNFRAGFV
SYMKAHTDFAGAEAAWGATLDAFFGMVFAKM

>P02227.1 Allergen Chi t 3; hemoglobin CTT-VIII [Chironomus thummi thummi]
AVTPMSADQLALFKSSWNTVKHNEVDILYAVFKANPDIQAKFPQFAGKDLDSIKDSADFA
VHSGRIVGFFSEVIGLIGNPENRPALKTLIDGLASSHKARGIEKAQFEFRASLVDYLSH
HLDWNDTMKSTWDLALNNMFFYILHALEVAQ

>P12548.1 Allergen Chi t 3; hemoglobin CTT VII B3 [Chironomus thummi thummi]

MKFFAVLALCIVGAIASPLTADEASLVQSSWKA VSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNESNASAVNSLVSKLGDDHKARGVSAAQ
FGEFRTALVAYLSNHVSWGDNVAAAWNKALDNTY AIVVPRL
>P12549.1 Allergen Chi t 3; hemoglobin CTT VII B6 [Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKA VSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNDSNAAAVNSLVSKLGDDHKARGVSAAQ
FGEFRTALVAYLQANVSWGDNVAAAWNKALDNTFAIVVPRL
>P12550.1 Allergen Chi t 3; hemoglobin CTT VII 7B7 [Chironomus thummi thummi]
MKFFAVLALCVVGAIASPLSADEAAIVKSSWDQVKHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTAAFATHATRIVSFFTEVISLSGNQANLSAVYALVSKLGVDPHKARGISAAQ
FGEFRTALVSYLQAHVSWGDNVAAAWNHALDNTY AVALKSLE
>P02231.1 Allergen Chi t 4; hemoglobin CTT IIIA [Chironomus thummi thummi]
VATPAMPSMTDAQVA AVKGDWEKIKGSGVEILYFFLNKFPGNFPMFKKLGNDLAAAKGTA
EFKDQADKIIAFLQGVIKLGSDMGGA KALLNQLGTSHKAMGITKDQFDQFRQALTELLG
NLGFGGNIGAWNATVDLMFHVIFNALDGTPV
>P02228.1 Allergen Chi t 9; hemoglobin CTT X [Chironomus thummi thummi]
DPEWHTLDAHEVEVQATWKA VSHDEVEILYTVFKAHPDIMAKFPKFAGKDLEAIKDTAD
FAVHASRIIGFFGEYVTLGSSGNQAAIRTLHLDLGVFHKTRGITKAQFGEFRETMTAYL
KGHNKWNADISHSWDDAFDKAFSVIFEVLES
>P25974.1 Allergen Gly m 5; beta conglycinin/ 7S globulin [Glycine max]
MMRVRFPLLVLLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNVIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLFLVLSGRAILTLVNNDDRDSYNLHP
GDAQRIPAGTTYLVNPHDHQNLKIIKLAIPV NKPGRYDDFFLSSTQAQQSYLQGFSHNI
LETSFHSEFEEINRVLFGEERQEQEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLSRNPIYSNNFGKFFEITPEKNPQLRDLDFLSSVDINEGALLLPHFNSKAIVILVIN
EGDANIELVGIKEQQQKQKQEEEPLEVQRYRAELSEDDV FVIPAAYPFV VV NATS NLNFLA
FGINAENNQRNFLAGEKDNVVRQIERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQK
EEGSKGRKGPFP SILGALY
>P24337.1 Allergen Gly m 1; lipid transfer protein (LTP) type 1 [Glycine max]
ALITRPSCPDL SICLNILGGS LGTVDDCCALIGGLGDIEAIVCLCIQLRALGILNLNRNL
QLILNSCGRSYPSNATCPRT
>P16348.1 Allergen Aspartic protease inhibitor 11 (Cathepsin D inhibitor PDI) (Allergen Sola t 2) [Solanum
tuberosum]
ESPLPKPVLD TNGKELNPSSYRIISIGRGALGGDVYLGKSPNSDAPCPDG VFRYNSDVG
PSGTPVRFIPLSGGIFEDQLLN IQFN IATVKLCVSYTIWKVGNLNA YFRTMLLETGGTIG
QADSSYFKIVKLSNFGYNLL YCPITPPFLC PFCRDDNFCAKVG VVIQNGKRRLALVNENP
LDVLFQEV
>P01005.1 Allergen Ovomuroid precursor (Allergen Gal d 1) (Gal d I) [Gallus gallus]
MAMAGV FVFLS FVLCGFLPDA AFGAEVDCSRFPNATDKEGKDVLCNKDLRPICGTDGVT
YTNDCLLCAYSIEFGTNISKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDKRHDGGCRKELAAVS VDCSEY PKPDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLT LSHFGK
>P02754.3 Allergen Beta-lactoglobulin precursor (Beta-LG) (Allergen Bos d 5) [Bos taurus]
MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENGECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENS AEPEQSLACQCLVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI
>P14946.2 Allergen Pollen allergen Lol p 1 precursor (Lol p I) (Allergen R7) [Lolium perenne]
MASSSVLLVVALFAVFLGSAHGIAKVPPGNITAEYGDKWLD AKSTWYGKPTGAGPKDN
GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSM AKKGEEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK
>P14947.1 Allergen Pollen allergen Lol p 2-A (Lol p II-A) [Lolium perenne]
AAPVEFTVEKGSDEKNLALS IKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK

PLKGFNFRFVSEKGMNRNVFDDVVPADFKVGTTYKPE

>P14948.1 Putative Pollen allergen Lol p 3 (Lol p III) [Lolium perenne]

TKVDLTVEKGSDAKTLVLNIKYTRPGDTLAEVELRQHGSSEWEPMTKKGNLWEVKSAPL

TGPMNFRFLSKGGMKNVFDEVIPTAFTVGKTYTPEYN

>P00698.1 Allergen Lysozyme C precursor (1,4-beta-N-acetylmuramidase C) (Allergen Gal d 4) (Gal d IV) [Gallus gallus]

MRSLLILVLCFLPLAALGKVFGRCELAAAMKRHGLDNYRGYSLGNWVCAAKFESNFNTQA

TNRNTDGSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNC AKKIVSDG

NGMNAWVAWRNRCKGTDVQAWIRGCR

>P01502.1 Putative Melittin [Apis dorsata]

GIGAILKVLSTGLPALISWIKRKRQE

>P16312.1 Allergen Major mite fecal allergen Der m 1 (Der m I) [Dermatophagoides microceras]

TQACRINSGNVSELDLRLSRTVTPIRMQG

>P02761.1 Putative Major urinary protein precursor (MUP) (Alpha-2u-globulin) (15.5 kDa fatty acid binding protein)

(15.5 kDa FABP) (Alpha(2)-euglobulin) (Allergen Rat n 1) (Rat n I) [Rattus norvegicus]

MKLLLLLLCLGLTLVCGHAEASSTRGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVF

MQHIDVLENSLGFKFRIKENGECRELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYV

MFHLINFKNGETFQLMVLYGR TKDLSSDIKEKFAKLCEAHGITRDNII DLTKTDRCLQAR

G

>P12547.2 Allergen Asp o 13; alkaline serine protease [Aspergillus oryzae]

MQSIKRTLLLLGAILPAVLGAPVQETRRAAEKLP GK YIVTFKPGIDEAKIQEHTTWATNI

HQRSLERRGATGGDLPVGIERNYKINKFAAYAGSFDDATIEEIRKNEDVAYVEEDQIYYL

DGLTTQKSAPWGLGSISHKQQSTDYIYDTSAGEGTYAYVVD SGVNV DHEEFEGRASKAY

NAAGGQHVD SIGHGTHVSGTIAGKTYGIAKKASILSVKVFQGESSTSVILDGFNWAAND

IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQGVLSVVAAGNENS DAGQTSPASAPDA

ITVA AIQKSNRASFSNFGKVVDV FAPGQDILSAWIGSSATNTISGTS MATPHIVGLSL

YLAALENDGPAAVTKRIKELATKDVVKDVKGSPNLLAYNGNA

>P01012.2 Allergen Ovalbumin (Plakalbumin) (Allergen Gal d 2) (Gal d II) [Gallus gallus]

MGSIGAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTR TQINKVVR

DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNDVYSFSLASRLYAEERYPILPEYLQ

CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIV

FKGLWEKAFKDED TQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTM

SMLVLLPDEVSGLEQLESII NFEKLT EWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMA

MGITDV FSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGS AEAGVDAASVSEEFR

ADHPFLFCIKHIATNAVLFFGRCVSP

>P22895.1 Putative P34 probable thiol protease precursor [Glycine max]

MGFLVLLLFSLGLSSSSSISTHR SILDLDTKFTTQKQVSSLFQLWKSEHGRVYHNHEE

EAKRLEIFKNSNYIRDMNANR KSPHSHRLGLNKFADITPQEF SKKYLQAPKDV SQQIKM

ANKKMKKEQYSCDHPPASWDWRKKG VITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV

SLSEQELVDCVEESEGSYNGWQYQSF EWVLEHGGIATDDDDYPYRAKEGRCKANKIQDKVT

IDGYETLIMSDESTETEQAFLSAILEQPISVSIDAKDFHLYTGGIYDGENCTSPYGIN

HFVLLVGYGSADGVDYWI AKNSWGF DWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES

ETLVSARVKGHRRVDHSPL

>P00784.1 Allergen Papain precursor (Papaya proteinase I) (PPI) (Allergen Car p 1) [Carica papaya]

MAMIPSISKLLFVAICLFVYMGLSFGDFSIVGYSQNDLTSTERLIQLFESWMLKHNKIYK

NIDEKIYRFEIFKDNLK YIDETNKKNSYWLGLNVFADMSNDEFKEKYTGSIAGNYTTTE

LSYEEVLNDGDVNIPEYVDWRQKGA VTPVKNQGSCGSCWAFSAVVTIEGHIKIRTGNLNE

YSEQELLD CDRRSYGCNGGYPWSALQLVAQYGIHYRNTYPYEGVQRYCRSREKGPYAAKT

DGVRQVQPYNEGALLYSIANQPVS VVLEAAGKDFQLYRGGIFVGP CGNKVDHAVA AVGYG

PNYILIKNSWGTGWGENGYIRIKRGTGNSYGV CGLYTSSFPVKN

>P02622.1 Allergen Parvalbumin beta (Allergen Gad c 1) (Gad c I) (Allergen M) [Gadus callarias]

AFKGILSNADIKAAEAACFKESFDEDFYAKVGLDAFSADELKKLFKIADEDKEGFIEE

DELKFLIAFAADLRALTD AETKAF LKAGDSGDGKIGVDEFGALVDK WGAKG

>P02620.1 Putative RecName: Full=Parvalbumin beta [Merluccius merluccius]

AFAGILADADITAALAACKAEGSFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKFLQNFSAGARALTDATFLKAGSDGDGKIGVEEFAAMVKG

>P05946.1 Allergen Pon 1 4; sarcoplasmic calcium-binding protein [Pontastacus leptodactylus]
AYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLALRNTLIEGRGEFNEAAAYANNQKIMSNL
WNEIAELADFNKDGEVTIDEFKKAVQNVCVGKAFATFPAAFKVFIANQFKTVDVNGDGLV
GVDEYRLDCISRSAFANIKEIDDAYNKLATDADKKAGGISLARYQELYAQFISNPDESAN
AVYFLGPLKEVQ

>P00780.1 Allergen RecName: Full=Subtilisin Carlsberg; Flags: Precursor [Bacillus licheniformis]
MMRKKSFVLGMLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNDPDVAAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNHGHGTHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSGSGTYSIVSGIEWATTNGMDVINMSLGGPSGSTAMK
QAVDNAYARGVVVAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTSTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINVEAAAQ

>P27357.1 Putative RecName: Full=Thaumatococcus-like protein PWIR2; Flags: Precursor [Triticum aestivum]
MATSPVLFLLLAVFAAGASAATFNIKNNCGFTIWPAGIPVGGGFALGSGQTSSINVPAGT
QAGRIWARTGCSFNNGSGSCQTGDGCGQLSCSLSGRPPATLAEYTIGGGSTQDFYDISVI
DGFNLAMDVFCSTGDALQCRDPSCPPPQAYQHPNDVATHACSGNNNYQITFCP

>P06886.1 Allergen RecName: Full=Toxic shock syndrome toxin-1; Short=TSST-1; Flags: Precursor [Staphylococcus aureus]

MNKKLLMNFFIVSPLLLATTATDFTPVPLSSNQIIKTAKASTNDNIKDLLDWYSSGSDF
TNSEVLDNSLGSRIKNTDGSISLIIFPSPYYSPAFTKGEKVDLNTKRTKKSQHTSEGT
IHFQISGVTNTEKLPPIELPLKVKVHGKDSPLKYGPKFDKKQLAISTLDFEIRHQLTQI
HGLYRSSDKTGGYWKITMNDGSTYQSDLSKKFEYNTKPPINIDEIKTIEAEIN

>AAA28301.1 Allergen antigen 5 precursor [Dolichovespula maculata]
MEIGGLVYLILIIINLSFGETNNYCKIKCRKGIHTLCKFGTSMKPNCGRNVVKAAYGLT
NDEKNEILKRHNDFRQNVAKGLETRGKPGPQPPAKNMNVLVWNEDELAKIAQTWANQCDFN
HDDCRNTAKYQVGQNIASSTTATQFDRPSKLIKQWEDEVTEFNYKVGLQNSNFRKVGHY
TQMVGKTKKEIGCGSIKYIEDNWYTHYLVCNYGPGGNDNFNQPIYERK

>AAA28303.1 Allergen Dol a 5; unknown/antigen 5 [Dolichovespula arenaria]
NNYCKICPKGTHLCKYGTSMKPNCGGKIVKSYGVTNDEKNEIVKRHNEFRQKVAQGLT
RGNPGPQPPAKNMNLLVWNEDELAKIAQTWANQCNEFGHDQCRNTAKYPVGQNVIASTTGN
SYQTMSYLIKWEDEVKDYNPBKDLMHNNFSKVGHYTQMVGKTKKEIGCGSVKYIENKWH
THYLVCNYGPAGNYMNQPVYERK

>AAA29793.1 Allergen Pol a 5; unknown/antigen 5 [Polistes annularis]
SSQGVYDCKIKCPSGIHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKLVSEHNFRQK
VAQGLETRGNPGPQPAASDMNDLVWNEDELAHIAQVWASQCQFLVHDKCRNTAKYPVGQNI
AYAGGSNLPDVVSLIKLWENEVDFNYNTGITKQNFAGIKGHYTQMVGKTKKEIGCGSLKY
MENNMQNHYLICNYGPAGNYLQPLPYTKK

>AAA30333.1 Allergen Ves v 5; unknown/antigen 5 [Vespula vulgaris]
MEISGLVYLIIIVTIDLPYGKANNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKIARGLETRGNPGPQPPAKNMKNLVWNEDELAHYVAQVWANQCQYG
HDTCRDVAKYQVGQNVALTGSTAAKYDDPVKLVKMWEDEVKDYNPKKKFSGNDFLKTGHY
TQMVGWANTKEVGCSEIKYIQEKWHKHYLVCNYGPGSNFMNEELYQTK

>AAA51411.1 Allergen Bos d 6; serum albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRRVFRDTHKSEIAHRFKDLGEEHFKGLVLIQAFSYYLQCCPF
DEHVKLVNELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCEKQEP
ERNECFLSHKDDSPDLPKLPDPNTLCEDFKADEKKFWGKYLEIARRHPYFYAPELLYY
ANKYNGVVFQECQAEDKGACLLPKIETMREKVLASSARQLRCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKE
CCDKPILLEKSHCIAEVEKDAIPENLPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLECCAADDPHACYSTVFDKCLKHLVDEPQNLIKQNCQDFEK
LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESERMPCTEDYLSLIL

NRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALTPDETYVPKAFDEKLFTFHADICTLP
DTEKQIKKQTALVELLKHKPKATEEQLKTVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQTALA

>AAA62707.1 Allergen alpha-s1-casein [Bos taurus]

PQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYY
VPLGTQYTDAPSFSDIPNPIGLENSEKTTMPLW

>AAA30413.1 Allergen beta-lactoglobulin [Bos taurus]

NSAEPXQSLVCECL

>AAA30429.1 Allergen alpha-S1-casein [Bos taurus]

MKLLILTCLVAVALARPKHPIKHQGLPQEVNLNENLLRFFVALFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAEISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRKYYK
VPQLEIVPNSAEERLHSMKEGIDAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTISLW

>AAA30430.1 Allergen beta-casein precursor [Bos taurus]

MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPPFGPIPNLQNIPLTQTPVVVPPFLQPEVLGVSKVKEAMAPK
HKEMPFPKYPVEPFTESQSLTLTDVENLHLPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPIQAFLLYQPPVLPVVRGPFPIIV

>AAA30431.1 Allergen Bos d 11; beta casein [Bos taurus]

MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPPFGPIHNSLQNIPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
HKEMPFPKYPVEPFTESQSLTLTDVENLHLPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPIQAFLLYQEPVLPVVRGPFPIIV

>AAA30433.1 Allergen kappa-casein precursor [Bos taurus]

MMKSFLLVVTILALTLPLFLGAQEQNQEPIRCEKDERFFSDKIAKYIPIQYVLSRYPYSG
LNYQKQKPVALINNQLFPYPYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKKNQDKTEIPTINTIASGEPTSTPTIEAVESTVATLEASPEVTESPEI
NTVQVTSTAV

>AAA30478.1 Allergen alpha-s1-casein [Bos taurus]

LSKDIGSESTEDQAMEDIKQMEAEISSSEEIVPNSVEQKQIQKEDVPSERYLGYLEQLL
RLKYYKVPQLEIVPNS

>AAA30615.1 Allergen Bos d 4; alpha-lactalbumin [Bos taurus]

MMSFVSLLLVIGILFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTTFHTSGYDTQAI
VQNDSTEYGLFQINNKIWCKDDQNPSSNICNISCDFLDDDLTDDIMCVKKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>AAC41616.1 Allergen major allergen I [Felis catus]

MRGALLVLALLVTQALGVKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMK
KIQDCYVENGLISRVLGVLMTTISSSKDCMGEAVQNTVEDLKLNTLGR

>AAC37318.1 Allergen major allergen I [Felis catus]

MKGARVLVLLWAALLLIWGGNCEICPAVKRDVDLFLTGTDPDEYVEQVAQYKALPVVLENA
RILKNCVDAKMTEEDKENALSLLDKIYTSPLC

>AAA32629.1 Allergen actinidin [Actinidia deliciosa]

MGLPKSFVSMSELLFFSTLLILSLAFNAKNLTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLENQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLPYSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLSLSEQELI
DCGRTQNTTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGECONVELQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKQYSSGIFTGPCGTIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGAGTTCGIATMPSYPVKYNNQNYPEPYSSLINPP
AFSMSKDGPVGVEDGQRYSA

>AAA32669.1 Allergen Amb a 1; pectate lyase [Ambrosia artemisiifolia]

MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDITVAGSSQIWDHCSLSKSFGLVDVTLGTHVTISNCKFTQQ

SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVFSCRPGAPC

>AAA32708.1 Allergen Asp o 21; TAKA-amylase A [*Aspergillus oryzae*]
MMVAWWSLFLYGLQVAAPALAAATPADWRSQSIYFLTDRFARTDGSTTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQTTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCLIQNYEDQT
QVEDCWLGDNTVSLPDLDTTKDVVKNNEWYDWWGSLVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPIYYPLLNAFKSTSGSMHDLYNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFILNDGIPIIYAGQE QHYAGGN
DPANREATWASGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSSGAGYTAGQQLTEVIGCTTVTVGSDGNVPPVPMAGGL
PRVLYPTEKLAGSKICSSS

>AAA16522.1 Allergen Bet v 2; profilin [*Betula pendula*]
MSWQTYVDEHLMCDIDGQASNSLASAIVGHDGSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEETVTPGQCNMV
VERLDYLDQGL

>AAA32970.1 Putative amylase/protease inhibitor [*Hordeum vulgare*]
MARAQVLLMAAALVLMMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECCNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNNAASIPSKCNVNPYITISPIDICSRIV

>AAA63278.1 Allergen Lol p 1; beta expansin [*Lolium perenne*]
ALFAVFLGSAHGIAKVPPGNITAEYGDKWLDKSTWYGKPTGAGPKDNGGACGYKDVDK
APFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNEEPIAPYHFDLS
GHAFGSMAKKGEEQNVRSA GELELQFRRVKCKYPDDTKPTFHVEKGSNPNYLAILVKYVD
GDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEGGTKSEVEDVIP
EGWKADTSYSAK

>AAA63279.1 Allergen Lol p 1; beta expansin [*Lolium perenne*]
MASSSVLLVVALFAVFLGSAHGIAKVPPGNITAEYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQNVRSA GELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWTELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

>AAA33493.1 Allergen Zea m 14; lipid transfer protein (LTP) type 1 [*Zea mays*]
MARTQQLAVVAVVALVLLAAATSEAAISCGQVASAIAPCISYARGQGSAGCCSGV
RSLNNAARTTADRRACNCLKNAAAGVSGLNAGNAASIPSKCGVSIPYTISTSTDCSRVN

>AAA33494.1 Allergen Zea m 14; lipid transfer protein (LTP) type 1 [*Zea mays*]
SCGQVASAIAPCISYARGQGSAGCCSGV RSLNNAARTTADRRACNCLKNAAAGVSG
LNAGNAASIPSKCGVSIPYTISTSTDCSRYSRRMHASAD

>AAA33819.1 Allergen patatin [*Solanum tuberosum*]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
IGPMYDGKYLQLVLEKLGTRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPPHYFITHTSNGDIYEFNLVDGGVATVGD PALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAQEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALTGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEALKRFAKLLSDRKKLRANKASY

>AAA33947.1 Putative beta-conglycinin-alpha subunit [*Glycine max*]
SKRAKSSSRKTISSEDKPFNLGSRDPIYSKKGKFFEITPEKNPQLRDLDFLSIVDMNE
GALLLPHFNKAIVILVINEGDANIELVGLKEQQQEQQQEQLPVRKYRAELSEQDIFV
IPAGYPVVVNATSNLNF FAIGNAENNRNFLAGSDNVISQIPSQVQELAFPGSAQAVE
KLLKNQRESYFVDAQPNEKEEGNKGRKGPLSSILRAFV

>AAB01374.1 Putative beta-conglycinin storage protein [*Glycine max*]
MMRARFPLLLGVVFLASVSVSFGIAYWEKQNP SHNKCLRSCNSEKDSYRNQACHARCNL
LKVEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPFPRPRQPHQEEHEQK

EEHEWHRKEEKHGGKSEEEQDEREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEEED
QDEDEEQDKESQESEGSESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKR
QQLQNLRDYRILEFNKPNLTLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA
LRVPAGTTFYVVPDNDENLRMIAGTTFYVVPDNDENLRMITLAIPVKNKPGRFESFFLS
STQAQQSYLQGFKNILEASYDTKFEEINKVLFGREEGQQQGEERLQESVIVEISKKQIR
ELSKHAKSSSRKTISSEDKPFNLGSRDPIYSNKLKGLFEITQRNPQLRDLVDVFLSVVDMN
EGALFLPHFNKAIVVLVINEGEANIELVGIKEQQQRQQEEQPLEVRKYRAELSEQDIF
VIPAGYPMVNATSDLNFFAFGINAENNRNFLAGSKDNVISQIPSQVQELAFPRSAKDI
ENLIKSQSESYFVDAQPQQKEEGNKGRKGPLSSILRAFY

>AAA33964.1 Putative glycinin [Glycine max]

MGKPFFTLSLSSCLLLLSSACFAITSSKFNQCQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGSHLPSYLPYPQMIIVVQGGKAIGFAFPGCPETFEPQQQS
SRRGSRSQQLQDSHQKIRHFNEGDVLIPLGVWYTYNTGDEPVVAISPLDTSNFNQNL
DQNPRVLYLAGNPDIHPETMQQQQQKSHGGRKQGQHRQEEEGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDERKQIVTVEGGLSVISPKWQEQEDEDEDEEYGRTPSYPPRRP
SHGKHEDDEDEDEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLNRNGIYSPDWNLNANSVTMTRG
KGRVRVVCQGNVFDGELRRGQLLVVPQNPVAEQGGEGGLEVVFKTHHNAVSSYIKD
VFRVIPSEVLSNSYNLQSQVRQLKYQGNSGPLVNP

>AAA33965.1 Putative glycinin precursor [Glycine max]

QEDEDEDEDEEYEQTPSYPPRRPSHGKHEDDEDEDEEHHQPRPDHPPQRPSRPEQQEPRG
RGCQTRNGVEENICTMKLHENIARPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYLV
LYRNGIYSPHWNLNANSVIYVTRGKGRVRVVCQGNPVFDGDLTRGQLLVVPQNFVADQ
GGKQGLEVVFKTQHNAVSSYIKDLFRAIPSEVLSNSYNLQSQVRQLKYQGNSGPLLN

>AAA33966.1 Allergen Gly m 6; glycinin/11S globulin [Glycine max]

MAKLVFSLCFLLFSGCCFAFSSREQPQQNECQIQKLNALKPDNRIESEGLIETWNPNNK
PFQCAGVALSRCTLNRNALRRPSYTNQPQEIYIQGKGIFGMIYPGCPSTFEPPQQPQR
GQSSRPQDRHQKIYNFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKKGKHQQEEENEGGSILSGFTLEFLEHAFSVDKQIA
KNLQGENEGEDKGAIVTVKGGLSVIKPPTDEQQQRPEEEEEEEDEKPKCKGKDKHCQRP
RGSQSKSRNGIDETICTMRLRHNGQTSSPDIYNPQAGSVTTATSLDFPALS WLRLSAE
FGSLRKNAMFVPHYNLNANSIYALNGRALIQVVCNGERVFDGELQEGRVLIVPQNFVV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNPF
KFLVPPQESQKRAVA

>AAA34272.1 Allergen gamma gliadin precursor [Triticum aestivum]

MKTLLILTILAMATTIATANMQVDPSGQVQWPQQQPPFPQPQQPFCQQPQRTIPQPHQTFH
HQPQQTFPQPQQTYPHQPQQQFPQTQQPQQPFPQPQQTFPQQPQLPFPQQPQQPFPQQ
PQQPFPQSQQPQQPFPQPQQQFPQPQQPQQSFPQQQQAQISFLQQMNPCKNLLQQCN
HVSLVSSLVSIILPRSDCQVMQQCCQLAQIPQQLQCAAHSVAHSIIMQQEQQQGVPI
LRPLFQLAQGLGIIQPQQAQLEGIRSLVLKTLPTMCNVYVPPDCSTINVPYANIDAGIG
GQ

>AAA34274.1 Allergen gamma-gliadin B precursor [Triticum aestivum]

MKTLLILTILAMAITIATANMQADPSGQVQWPQQQPFLLQPHQPFSQQPQQIFPQPQQTFP
HQPQQQFPQPQQPQQQFLQPRQFPQPQQPYPQPQQPFPQTQQPQQPFPQSKQPQQPF
PQPQQPQQSFPQQQPSLIQQSLQQQLNPCKNLLQQCKPVSLVSSLVSIILPPSDCQVMR
QQCCQQLAQIPQQLQCAAHSVHHSIIMQQEQQEQLQGVQILVPLSQQQQVGGGILVQGQ
GIIQPQQAQLEVIRSLVLQTLPTMCNVYVPPYCSITRAPFASIVASIGGQ

>AAA34275.1 Allergen alpha-type gliadin precursor protein [Triticum aestivum]

MKTFLILALLAIVATTATTA VRVPVQLQPQNPSQQQPQEQVPLVQQQFPQQQQFPQP
QPYPQPQFPFSQQPYLQLQFPQPQFPPLYPQPQSFPPQQPYPQQQPQYLQPPQPIQ
QQAQQQQQQQQQQQQQQQILQQILQQQLIPCRDVLVQQHNIAHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSQCQAIHNVAHAIIMHQQQQQQQEQKQQLQQQQQQQQQLQQQQQQQQQ
PSSQVSFQQPQQYPSQVSFQPSQLNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVY
IPHCSTTIAPFGISGTN

>AAA34276.1 Allergen pre-alpha-/beta-gliadin A-II [Triticum aestivum]
MKTFFPILALLAIVATTATTAVRVPVPLQQLQNPSSQQQPQEQVPLVQEQQFQGGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQFPFPQPLYPQPQPFPPQPYYPQPQPYSPQQPISQQQQQ
QQQQQQQQQILQQILQQQLIPCRDVVLQQHNIHAGSSQVLQESTYQLVQQGCCQQLWQI
PEQSRCQAIHNVVHAILHQQHQQHQQQQQQQQQPLSQVFSFQQPQQQYPSGGQFFQPSQ
QNPQAQGSFQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>AAA34279.1 Allergen alpha/beta-gliadin precursor [Triticum aestivum]
MKTFLILALVATTATTAVRVPVPLQPKNPSQQQPQEQVPLVQQQQFPGQQQFPPQQPY
PQPQPFPSQQPYLQLQFPFPQPLYPQPQSFPPQPYYPQQRPKYLQPPQISQQQ
AQQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIHASSQVLQOSTYQLLQQ
CCQQLLQIPEQSRCQAIHNVVHAIIMHQEQQQQLQQQQQQQLQQQQQQQQQQQPSQV
SFQQPQQQYPSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>AAA34280.1 Allergen alpha/beta-gliadin precursor [Triticum aestivum]
MKTFLILVLLAIVATTATTAVRFPVPLQPNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QPYPQPQPFPSQLPYLQLQFPFPQPLYSQPQPFPPQPYYPQPQPYSPQQPISQQQQQ
QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIHGRSQVLQOSTYQLLQELCCQHL
WQIPEQSQCQAIHNVVHAILHQQKQQQQPSSQVFSFQQPLQQYPLGGQSFPPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>AAA34281.1 Allergen pre-alpha-/beta-gliadin A-I [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVPVPLQPNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQFPFPQPLYSQPQPFPPQPYYPQPQPYSPQQPISQQQQQ
QQQQQQQQQQQQQIIQQILQQQLIPCMDVVLQQHNIHVGKSQVLQOSTYQLLQELCCQH
LWQIPEQSQCQAIHNVVHAILHQQKQQQQPSSQVFSFQQPLQQYPLGGQSFPPSQQNPQ
AQGSVQPQQLPQFEEIRNLARK

>AAA34282.1 Allergen pre-alpha-/beta-gliadin A-IV [Triticum aestivum]
MKTFLILALRAIVATTATIAVRVPVPLQPNPSQQQPQKQVPLVQQQQFPGQQQPFPPQ
QPYPQQQPFPSQQPYMQLQFPFPQPLYPQPQPLYPQPQPFPPQQSYPQPQPYSPQQP
ISQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHSIAHGSSQVLQOSTYQLVQQFC
CQQLWQIPEQSRCQAIHNVVHAILHQQQQQQQQQQQQQQQQPLSQVCFQQSQQQYPSGGQ
SFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAPVGIFGTN

>AAA34283.1 Allergen pre-alpha-/beta-gliadin A-III [Triticum aestivum]
MKTFLILALLAIVATTATS AVRVPVPLQPNPSQQQPQEQVPLMQQQQQFPGQQEQFP
QQPYPHQQPFPSQQPYYPQPQPFPPQPLYPQTQFPFPQPYYPQPQPYSPQQPISQQQAQ
QQQQQQQTLQQLQQQLIPCRDVVLQQHNIHASSQVLQSSYQQLQQLCCQQLFQIPEQ
SRCQAIHNVVHAILHHHQQQQQPSSQVSYQQPQEQYPSGQVFSFQSSQQNPQAQGSVQP
QQLPQFQEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFGTN

>AAA34284.1 Allergen alpha-type gliadin [Triticum aestivum]
PQPQPYSPQQPISQQQQQQQQQQQQQQEQQILQQILQQQLIPCMDVVLQQHNIHGR
SQVLQOSTYQLLQELCCQHLWQIPEQSQCQAIHNVVHAILHQQKQQQQPSSQFSFQQ
PLQQYPLGGQSFPPSQQNPQAQGSVQPQQLPQFEIRNLALQTLPAMCNVYIPPYCTIAPF
GIFGTN

>AAA34285.1 Putative pre-gamma-gliadin B-I [Triticum aestivum]
MKTFLVFALIAVVATSIAIQMETSCLERPWQQQPLPPQQSFSQQPPFSQQQQQPLPQ
QPSFSQQQPPFSQQQPILSQQPPFSQQQQPVLPQQSPFSQQQQLVLPQQQQQQQLVQQQI
PIVQPSVLQQLNPCKVFLQQQCSPVAMPQRLARSQMWWQSSCHVMQQQCCQQLQIPEQS
RYEAIRAIYSIILQEQQQGFVQPQQQQPQQSGQGVSSQSSQQLGQCSFQQPQQQLG
QQPQQQQQQQVLQGTFLQPHQIAHLEAVTSIALRTLPTMCSVNVPLYSATTSVPFGVGTG
VGAY

>AAA34286.1 Putative gamma-gliadin [Triticum aestivum]
TITRTFPIPTISSNNNHFRSNSNHFFHSNNNQFYRNNSPGHNNPLNNNNSPNNNSPSN
HHNNSPNNNFQYHHTPSNHKNLPHNTNIQQQPPFSQQQQPPFSQQQQPVLPQQSPFSQQ
QQLVLPQQQQQQQLVQQQIPIVQPSVLQQLNPCKVFLQQQCSPVAMPQRLARSQMWWQSS
CHVMQQQCCQQLQIPEQSRYEAIRAIYSIILQEQQQGFVQPQQQQPQQSGQGVSSQSSQ

QSQQQLGQCSFQQPQQQLGQQPQQQQQQVVLQGTFLQPHQIAHLEAVTSIALRTLPTMCS
VNVPLYSATTSVDFGVGTGVGAY

>AAA34287.1 Putative gamma gliadin B-III [*Triticum aestivum*]

PQQPFPLPQQSFLWQSQQPFLQQPQQPSPQQVQIISPATPTTIPSAGKPTSAPFPQ
QQQQHQQLAQQQIPVVQPSILQQLNPCKVFLQQQCSPVAMPQRLARSQMLQQSSCHVMQQ
QCCQQLPQIPQQSR YQAIRAIIYSIILQEQQVQVQSGSIQSQQQQPQLGQCVSQPQQQSQQ
QLGQQPQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTSVDFGVGTG
VGAY

>AAA34288.1 Allergen gamma-gliadin [*Triticum aestivum*]

MKTLLILTILAMAITIGTANMQVDPSSQVQWPQQQPVPQPHQPFSSQQPQQTFPQQQTFP
HQPQQQFPQPQQPQQQFLPQQPFPQQPQQPYPQQPQQPFPQTQQPQQLFQSSQQPQQQF
SQPQQQFPQPQQPQQSFPQQQPPFIQPSLQQQVNPCKNFLLQQCKPVSLVSSLWSMIWPQ
SDCQVMRQCCQQLAQIPQQLQCAAIHTIIHSIIMQQEQEQEQQGMHILLPLYQQQQVVGQ
GTLVQGQGIQ

>AAA34289.1 Allergen gamma-gliadin [*Triticum aestivum*]

MKTLLILTILAMAITIGTANIQVDPSSQVQWLQQQLVPQLQQPLSQPQQTFPQQQTFP
HQPQQQVPQPQQPQQPFLPQQPFPQQPQQPFPQTQQPQQPFPQQPQQPFPQTQQPQQPF
PQQPQQPFPQTQQPQQPFPQLQQPQQPFPQPQQQLPQPQQPQQSFPQQQRPFIQPSLQQQ
LNPCKNILLQSKPASLVSSLWSIWPQSDCQVMRQCCQQLAQIPQQLQCAAIHSVVHS
IIMQQQQQQQQQGGIDIFLPLSQHEQVGGSLVQGGGIIQPQQPAQLEAIRSLVLQTLPS
MCNVYVPPECSIMRAPFASIVAGIGGQ

>AAA34290.1 Allergen gliadin [*Triticum urartu*]

MKTFLILALLAIVATTATTAVRVPVPQPQPQNPSQPQPQRQVPLVQQQQFPGQQQQFPPQ
QPYQPQPFPSSQQPYLQLQFPQPQPFPQLPYPQPPFPSPQQPYQPQPQYPQPQPIS
QQQAQQQQQQQQQQQQQQQQQQQILPQILQQQLIPCRDVLQQHIAHARSQVLQSTYQP
LQQLCCQQLWQIPEQSRCQAIHNVVHAILHQQQQQQQPSSQVSLQQPQQQYPSGQGGFFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTTAPFGIFGTN

>AAB02788.1 Allergen HMW glutenin subunit Ax2 [*Triticum aestivum*]

MTKRLVLFAAVVVALVALTAEGEASGQLQCERELQEHSKACRQVVDQQLRDVSPECQP
VGGGPVARQYEQQVVVPPKGGSFYPGETTPPQQLQQSILWGIPALLRRYYLSVTSPQQVS
YYPGQASSQRPGQQQEYYLTSPQQSGWQQPGQGQSGYYPTSPQQSGQKQPGYYPTSPW
QPEQLQPTQGGQRQPQGGQQLRQGGQGGQSGQGQPRYYPTSSQQPGQLQQLAQGGQQGQ
QPERGQQGQSGQGGQLGQGGQGGQPGQKQSGQGGQGYYPISPQQLGQGGQSGQGGQLGY
YPTSPQQSGQGGQSGYYPTSAQQPGQLQSTQEQLGQEQDQSGQGRQGGQSGQRQQDQ
QSGQGGQPGQRQPYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQPEQGGQQGQPE
QGQQGQQQRQGEQGGQPGQGGQGGQPGQGGQPGYYPTSPQQSGQGGQPGYYPTSPQQSGQLQ
QPAQGGQPGQEQQGQQPGQGGQPGQGGQPGYYPTSPQQSGQEQQLEQWQQSGQGGQPGHYPT
SPLQPGQGPQGYPTSPQQIGQGQPGQLQOPTQGGQGGQPGQGGQGGQPGEGQQGQQPG
QGQQPGQGPQGYPTSLQSGQGGQPGWQQPGQGGQPGYYPTSSLQPEQGGQGGYYPTSSQ
QPGQGGPQPGWQQSGQGGQGGYYPTSPQQSGQGGQPGWQPGWQSGYYLTSPQQLGQG
QQPRQWLQPRQGGQGGYYPTSPQQSGQGGQLGQGGQGGYYPTSPQQSGQGGQGGYDSPYHVSA
EHQAASLKVAKAQLAAQLPAMCRLEGGDALLASQ

>AAA39768.1 Allergen Mus m 1; lipocalin / mouse urinary protein / prealbumin [*Mus musculus domesticus*]

MKMLLLLCLGLTLVCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRFL
EQIHVLEKSLVLFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLNEKDGTFQLMGLYGREPDLSSDIKERFAKLCEEHGILRENIIDLSNANRCLQARE

>AAA41198.1 Allergen Rat n 1; lipocalin / alpha 2u globulin / major urinary protein [*Rattus norvegicus*]

LLLLCLGLTLVCGHAEASSTSGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVFMQHI
DVLENSLGFKRIKENGECRELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYVMFHL
INFKNGETFQLMVLYGRTKDLSSDIKEKFAKLCEAHGITRDNIIDLTKTDRCLQARG

>AAA48944.1 Allergen lysozyme protein [*Gallus gallus*]

MNAWVAWRNSCKGTDVQAWIRGCR

>BAA01239.1 Allergen mite allergen Der f II precursor, partial [*Dermatophagoides farinae*]

SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFITLEALFDANQNTKTAK

IEIKASLDGLEIDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLI
GDNGVLACAIATHGKIRD

>BAA01240.1 Allergen mite allergen Der f II precursor [Dermatophagoides farinae]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDA
NQNTKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDIKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHGKIRD

>BAA01241.1 Allergen mite allergen Der f II precursor [Dermatophagoides farinae]

SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDANQNTKTAK
IEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSENVVVTVKLV
GDNGVLACAIATHAKIRD

>BAA01998.1 allergenic protein [Oryza sativa Japonica Group]

MASNKVVFSALLLIIVSVLAATTRMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVGTRSPGAVDEQLAQDCCRELAADVDDSWCRCSALNHMVGGIYRELGATDVGHMPMAEV
FPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA01996.1 allergenic protein [Oryza sativa Japonica Group]

MASNKVVFSVLLLA VVS VLAATATMAEYHHQDQVVYTRARCQPGMGYPMYSLPRCRALVK
RQCRGSA AAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMPMSEVFRG
CRRGDLERAAASLPAFCNVDIPNGGGGVCYWLARSGY

>BAA00154.1 Allergen Gly m 6; glycinin/11S globulin [Glycine max]

MAKLVLSLCFLLFSGCFALREQAQQNECQIQKLNALKPDNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLNRNALRRPSYTNPGQEIYIQQGNIGFMIFFPGCPSTYQEPQESQQRGRS
QRPQDRHQKVHRFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQQGSQSQKQKQEEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGLRVTAPAMRKPQQEEDDDDEEQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGLRKNAMF
VPHYTLNANSIYALNGRALVQVNCNGERVFDGELQEGGVLIVPQNFAVA AKS QSDNFE
YVSFKTNDRPSIGNLAGANSLNALPEEVIQHTFNLKSQQARQVKNNNPFSFLVPPQESQ
RRAVA

>P30575.1 Allergen Enolase 1 (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) [Candida albicans]

MSYATKIHARYVYDSRGNPTVEVDFTTDKGLFRSIVPSGASTGVHEALELRDGDKSKWL
KGV LKAVANVNDIIPALIKAKIDVVDQAKIDEFLLSLDGTNPKSKLGANAILGVSLAAA
NAAAAAQGIPLYKHIANISNAKKGKFLVPVPFQNVNLGGSHAGGALAFQEFMIAPTGVST
FSEALRIGSEVYHNLKSLTKKKYQGSAGNVGDEGGVAPDIKTPKEALDLIMDAIDKAGYK
GKVGIAMDVASSEFYKDGYDLDFKNPESDPSKWLSGPQLADLYEQLISEYPIVSIEDPF
AEDDWDAAVHFFERVGDKIQIVGDDLTVTNPTRIKTAIEKKAANALLKVNQIGTLTESI
QAANDSYAAGWGMVSHRSGETEDTFIADLSVGLRSGQIKTGAPARSERLAKLNQILRIE
EELGSEAIYAGKDFQKASQL

>AAB22817.1 Putative peanut agglutinin precursor; prePNA [Arachis hypogaea]

MKPFCVFLTFFLLLAASSKKVDSAETVSFNFNSFSEGNPAINFQGDVTVLSNGNIQLTNL
NKVNSVGRVLYAMPVRIWSSATGNVASFLTSFSFEMKDIKDYDPADGIIFFIAPEDTQIP
AGSIGGGTLGVSDTKGAGHFVGVFEFDTYSNSEYNDPPTDHSVGDVNSVDSVKTVPWNSVS
GAVVKVTVIYDSSTKTLVAVTNDNGDITTIAQVVDLAKLPERVKFGFSASGSLGGRQI
HLIRWSFTSTLITTTRRSIDNNEKKIMNMASA

>AAB23464.1 Putative Kunitz trypsin inhibitor; KTi [Glycine max]

MKSTIFFLFLCAFTTSYLPSAIAFDVLDNEGNPLENGGTYIILSDITAFGGIRAAPTGN
ERCPLTVVQSRNELDKGIGTISSPYRIRFIAEGHPLSLKFDSFAVIMLCVGIPTESV
EDLPEGPAVKIGENKDAMDGWFRLE RVSDDEFN NYKLVFCPQAEDDKCGDIGISIDHDD
GTRRLVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>AAB23482.1 Putative Kunitz trypsin inhibitor KTi1 [Glycine max]

MKSTIFFALFLVCAFTISYLPSATAQFVLDTDDDPLQNGGTYMPLVPMRGKGGGIEVDST
GKEICPLTVVQSPNELDKGIGLVFTSPLHALFIAERYPLSIKFGSFAVITLCAGMPTEWA
IVEREGLQAVKLAARDTVDGWFNIERSREYNDYKLVFCPQAEDNKCEDIGIQIDDDGI
RRLVLSKNKPLVVQFQKFRSSTA

>AAB23483.1 Putative Kunitz trypsin inhibitor KTi2 [Glycine max]
MKSTIFFALFLVCAFTISYLPSATAQFVLDTDDDPLQNGGTYMPLVPMRGKSGGIEGNST
GKEICPLTVVQSPNKHNGIGLVFKSPLHALFIAERYPLSIKFDSSFAVIPLCGVMPTKWA
IVEREGLQAVTLAARDTVDGWFNIERVRSREYNDYYKLVFCEPQEAEDNKCEDIGIQIDNDG
IRRLVLSKNKPLVVEFQKFRSSTA

>AAB24432.1 Allergen Aln g I [Alnus glutinosa]
MGVFNIEAETPSVIPAARLFKAFILDGDKLLPKVAPEAVSSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDVRFNFKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGGSSILKISNK
FHTKGDHEINAEQIKIEKEKAVGLLKAVERSYLLAHSDAYN

>P29600.1 Putative RecName: Full=Subtilisin Savinase; AltName: Full=Alkaline protease [Bacillus lentus]
AQSVPWGISRVQAPAAHNRGLTGSVGVKVAVLDTGISTHPDLNIRGGASFVPGEPSTQDGN
GHGTHVAGTIAALNNSIGVLGVAPSAELYAVKVLGASGSGSVSSIAQGLEWAGNNGMHVA
NLSLGSPPSATLEQAVNSATSRGVLVVAASGNSGAGSISYPARYANAMAVGATDQNNNR
ASFSQYGAGLDIVAPGVNVQSTYPGSTYASLNGTSMATPHVAGAAALVKQKNPSWSNVQI
RNHLKNTATSLGSTNLYGSGLVNAEAATR

>CAA47341.1 Allergen Dol m 1; phospholipase A1 [Dolichovespula maculata]
RLIMFVGDPSSENELDRFSVCPFSNDTVKMIFLTRENKRKHDFYTLDTMNRHNEFKKSIK
RPVVFITHGFTSSATEKNFVAMSEALMHTGDFLIIMVDWRMAACTDEYPGLKYMFYKAAV
GNTRLVGNFIAMIAKKLVEQYKVPMTNIRLVGHSLGAHISGFAGKRVQELKLGKFSEIIG
LDPAGPSFKKNDCSERICETDAHYVQILHTSSNLGTERTLGTVDYFYINNGSNQPGCRYII
GETCSHTRAVKYFTECIRRECCLIGVPQSKNPQPVSCKTRNECVGLNAKKYPKRGSFY
VPVEAEAPYCNNNGKII

>AAA32702.1 Putative serine protease [Aspergillus niger]
MKGILGLSLLPLLAASPVFVDSIHNEAAPILSATNAKEVPDSYIVVFKKHVTSELASAH
HSWVQDIHDSQSERTELKKRSLFGLGDEVYLGKNTFDIAGSLIGYSGHFHEDVIEQVRR
HPDVDYIERDSEVHTMEGATEKNAPWGLARISHRDSLTFGNFNKYLASEGGEGVDAYTI
DTGINVDHVDFEGRATWGKTIPTNDEDLDGNGHGHGTHCSGTMAGKKYGVAKKANLYAVKVL
RSSGSGTMSDVVSGVEYAVQAHIKKAKDAKNGKVKGFKGSVANMSLGGGKSKTLEDVNA
GVEAGLHFAVAAGNDNADACNYSAAAEEKAITVGASTLADERAYFSNYGECTDIFAPGLN
ILSTWIGSNYATNIISGTSMASPHIAGLLAYFVSLQPSSDSFAVEELTPAKLKKDIIAI
ATEGALTDIPSNTPNVSHAAVGIYKRNELTQKFSSLPGTVVVPRTPPTSLAAVATRSLPL
RTASRTVLRVSFTRPKSCSPRSLVPSTARSRMPSSHRSELVLSRRRSEDLVFF

>CAA29664.1 Allergen alpha-lactalbumin [Bos taurus]
MMSFVSLLLVGLFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTAFHTSGYDTQAI
VQNDSTEYGLFQINNKIWCDDQNPHSSNICNISCDFLDDDLTDDIMCVKKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>CAA26953.1 Allergen Mus m 1; lipocalin / mouse urinary protein / prealbumin [Mus musculus]
MKMLLLLCLGLTLVCHVAAEEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRFLFL
EQIHVLENSLVLFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLINKEKDGETFQLMGLYGREPDLMSDIKERFAQLCEEHGILRENIIDLSNANRCLQARE

>AAB25850.1 Allergen isoallergen {N-terminal} [Betula sp.]
GVFNIEYETETTSVIPAARLFKAFILDGDNLFKVPAPQAITSVENIYERYGXG

>AAB25851.1 Allergen isoallergen {N-terminal} [Betula sp.]
SVFNIEYETETTSVIPAAFLFKAFILDGDKLFPKVPAPQXQSIVXNXRYRVYXPK

>CAA49760.1 Allergen Myr p 1; pilosulin [Myrmecia pilosula]
MKLSCLLLTLTIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ

>CAA51718.1 Allergen Zea m 12; profilin [Zea mays]
MSWQTYVDEHLMCEIEGHHLTSAIVGHDGATWAQSTAFPEFKPEEMAAIMKDFDEPGHL
APTGLILGGTKYMVIQGEPGA VIRGKKKSGGITVKKTGQSLIIGIYDEPMTPGQCNLVVE
RLGDYLLEQGM

>CAA51719.1 Allergen Zea m 12; profilin [Zea mays]
MSDRAKMSWQAYVDEHLMCEIEGHHLAAAIVGHDGAAWAQSTAFPEFKTEDMANIMKDF
DEPGHLAPTGLFLGPTKYMVIQGEPGA VIRGKKKSGGITVKKTGQALVVGIYDEPMTPGQ

CNMVVERLGDYLLEQGM

>CAA51720.1 Allergen Zea m 12; profilin [*Zea mays*]

MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNIKDFDEPGFL
APIGLFLGPTKYMVIQGEPAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNCMVVE
RLGDYLVEQGL

>A45786 Allergen major pollen allergen Bet v I - European white birch (fragment) [*Betula pendula*]
GVFNIEAETTSVIPAAWLWKXFILGDGNLFPKVAPQXTSVENIYERGGWG

>B45786 Allergen major pollen allergen Bet v II - European white birch (fragment) [*Betula pendula*]
SVFNIEAETTSVIPAAWLWKXFILGDGNLFPKVAPQXTSVENIYERGGWG

>E37396 Putative pollen allergen Agr a I - bent grass (fragment) [*Agrostis alba*]
YTTEGGTKAEAEDVIPEGWKADTSYE

>G37396 Putative pollen allergen Ant o I - sweet vernal grass (fragment) [*Anthoxanthum odoratum*]
YTTEGGTKAEAEDVIPEGWKADTSYE

>C37396 Putative pollen allergen Fes e I type A - reed fescue (fragment) [*Schedonorus arundinaceus*]
YTTEGGTKSEAEDVIPE

>D37396 Putative pollen allergen Fes e I type B - reed fescue (fragment) [*Schedonorus arundinaceus*]
YTTEGGTKSEVEDVIPEGWK

>F37396 Putative pollen allergen Poa p I - Kentucky bluegrass (fragment) [*Poa pratensis*]
YTTEGGTKAEAEDVIPEGWKVDTSYE

>AAA16792.1 Allergen Hev b 10; superoxide dismutase [*Hevea brasiliensis*]

MALRSLVTRKNLPSAFKAATGLGQLRGLQTFSLPDLPYDYGALPAISGEIMQLHHQKHH
QTYITNYNKALEQLNDAIEKGDAAVVKLQSAIKFNGGGHVNHSIFWKNLAPVREGGEL
PHGSLGWADADFGSLEKLIQLMNAEGAALQGGGWVWLALDKELKLVVETTANQDPLVT
KGPTLVPLLIDVWEHAYYLQYKNVRPDYLNKNIWKMVNWKYASEVYAKECPSS

>AAA28296.1 Allergen major house dust allergen [*Dermatophagoides pteronyssinus*]

MSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAA
TESAYLAHRNQSLDLAEQELVDCASQHGCHGDTIPR

>CAA44345.1 Allergen fel d I chain 2 precursor [*Felis catus*]

MRGALLVLALLVTQALGVKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMK
KIQDCYVENGLISRVLGGLVMIAINEYCMGEAVQNTVEDLKLNTLGR

>CAA52753.1 Allergen Phlp5 [*Phleum pratense*]

MAVHQYTVLFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPATPAAPAEAAPAGKAT
TEEQKLIKINAGFKAALAAAAGVQPADKYRTFVATFGAASNKAFAEGLSGEPKGAEESS
SKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAAATVATAPEVKYTVFETALKKAITAMSEAQAAPAAAATATATAAVGAAT
GAATAATGGYKV

>CAA52194.1 Allergen Equ c 3; serum albumin [*Equus caballus*]

MKWVTFVSLFLFSSAYSRLVRRDTHKSEIAHRFNDLGEKHFGLVAVAFSQYLQCCPF
EDHVKL VNEVTEFAKKCAADESAENCDSLHTLFGDKLCTVATLRATYGELADCCEKQEP
ERNECFLTHKDDHPNLPKPKPEPDAQCAAFQEDPKFLGKYLEVARRHPYFYGPELLFH
AEEYKADFTECCPADDKLAACLIPKLDALKERILLSSAKERLKCSSFQNFGERAVKAWVA
RLSQKFPKADFAEVSKI VTDLTKVHKECCHGDLLECADDRADLAKYICEHQDSISGKLKA
CCDKPLLQKSHCIAEVKEDDLPSDLPALAADFAEDKEICKHYKDAKDVFLGTFLYEYSRR
HPDYSVSLLLRIAKTYEATLEKCCAADPPACYRTVFDQFTPLVEEPKSLVKKNCDFEE
VGEYDFQNALIVRYTKKAPQVSTPTLVEIGRTLKGVGSRCKLPESERLPCSENHLALAL
NRLCVLHEKTPVSEKITKCTDSLAERRPCFSALELDEGYVPKEFKAETFTFHADICTLP
EDEKQIKKQSALAEVVKHKPKATKEQLKTVLGNFSAFVAKCCGREDKEACFAEEGPKLVA
SSQLALA

>CAA47366.1 Allergen Car b I, partial [*Carpinus betulus*]

GVFNIEAETTSVIPAAWLWKXFILGDGNLFPKVAPQXTSVENIYERGGWG
GIPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEKMKGAKEMAELKLLRAVESYLLAHTAEYN

>CAA47357.1 Allergen Car b I [*Carpinus betulus*]

GVFNYEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFAE
GSPFKVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN
>CAA47367.1 Allergen Car b I, partial [Carpinus betulus]
GVFNIEAETTSVIPAAARLFKAFILDGNKLIPKVSPQAVSSVENVEGNGGPGTIKKITFSE
GSPVKYVKERVEEIDHTNFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN
>AAB27594.1 Putative DF5=allergen {N-terminal} [Dermatophagoides farinae]
AVGGQDADLAEAPFQISLLK
>AAB27445.1 Putative Pha a I=34 kda pollen allergen {N-terminal} [Phalaris aquatica]
IAKVPPGGXITAEYGDKWLD
>CAA81610.1 Putative allergen Hol-II [Holcus lanatus]
MASSRSVLLLVAALFAVFLGSAHGIAKVPPGNITATYGDEWLDAKSTWYGKPTGAGPK
DNGGACGYKDVDPKPPFSGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEPVTVHITDD
NEEPIAPYHFDLSGHAFGSMAGKKEEQKLSAGELELKFRRVKCKYDPDGTKPTFHVEKGS
NPNYLALLVKYIDGDGDVVAVDIKEKGKDKWIELKESWGAVWRVDTDPDKLTGPFTVRYTT
EGGTKGEAEDVIPEGWKADTAYEAK
>CAA53529.1 Putative PHL PII, pollen allergen [Phleum pratense]
MSMASSSSSSLLAMAVLAALFAGAWCVPKVTFTVEKGSNEKHLAVLVKYEGDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEPLQGPFNFRFLTEKGMKNVFDVVPEKYTIGATYAP
EE
>P00304.2 Pollen allergen Amb a 3 (Amb a III) (Allergen Ra3) [Ambrosia artemisiifolia var. elatior]
GKVYL VGGPELGGWKLQSDPRAYALWSARQQFKTTDVLWFNFTTGEDSVAE VWREAYHA
CDIKDPIRLEPGGPDRFTLLTPGSHFICTKDQKQFVACVPR
>P24296.2 Allergen RecName: Full=Non-specific lipid-transfer protein; Short=LTP; AltName: Full=Phospholipid
transfer protein; Short=PLTP; AltName: Full=ns-LTP1; Flags: Precursor [Triticum aestivum]
AQVMLMAVALVLMLAAVPRAA VAIDCGHVDSLVRPCLSYVQGGPGPSGQCCDGVKNLHNQ
ARSQSDRQSACNCLKGIARGIHNLNEDNARSIPKCGVNLPTYTISLNIDCSR
>S32101 Allergen PHL P5A protein - common timothy (fragment) [Phleum pratense]
EAPAGKATTEEQKLIKINAGFKAALARLQPADKYRTFVATFGPASNKAF AEGLSGEPK
GAAESSKAALTSKLDAA YKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKP
AAEEVKVIPAAELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDEIKASTGGAYES
YKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPPPLPPPQPP
PLAATGAATAATGGYKV
>CAA49555.1 Allergen CMa, component of tetrameric alpha-amylase inhibitor [Hordeum vulgare subsp. vulgare]
MASKSSITPLLLAAVLASVFAAATATGQYCYAGMGLPSNPLEGCREYVAQQTCGVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHRCCEAVRYFIGRRSHPDWSVLKDLPGCPKEPQRDFA
KVLVTPGQC NVLTVHNAPYCLGLDI
>CAA54421.1 Allergen Bet v 1b [Betula pendula]
MGVFNYETETTSVIPAAARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN
>AAB28566.1 Allergen major allergen Cyn d I=34 kda polypeptide {N-terminal} [Cynodon dactylon=Bermuda grass,
pollen, Peptide Partial, 25 aa]
AMGDDPGPKITATYGSKWLDKATF
>AAB28567.1 Allergen major allergen Cyn d I=29 kda polypeptide {N-terminal} [Cynodon dactylon=Bermuda grass,
pollen, Peptide Partial, 38 aa]
GAAPDDHGGAXGYKDVDPKPPFDGMTAXGNEPIFKDDL
>CAA54481.1 Allergen Bet v 1 c [Betula pendula]
MGVFNYESETTSVIPAAARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDQEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN
>CAA54482.1 Allergen Bet v 1 d [Betula pendula]
MGVFNYE IETTSVIPAAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP

EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA54483.1 Allergen Bet v 1 e [Betula pendula]

MGVFNYETEATSVIPAARLFKAFILDGDNLFPKVAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKGRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHSDAYN

>CAA54484.1 Allergen Bet v 1 f [Betula pendula]

MGVFNYEIEATSVIPAARLFKAFILDGDNLFPKVAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHSDAYN

>CAA54487.1 Allergen Bet v 1 j [Betula pendula]

MGVFNYETEATSVIPAARLFKAFILDGDNLFPKVAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHSDAYN

>CAA54488.1 Allergen Bet v 1 k [Betula pendula]

MGVFNYESETTSVIPAARLFKAFILEGDTLIPKVAPQAISVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHSDAYN

>CAA54489.1 Allergen Bet v 1 l [Betula pendula]

MGVFNYETEATSVIPAARMFKAFILDGDKLVPKVAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA54686.1 Allergen Phl p 12; profilin [Phleum pratense]

MSWQTYVDEHLMCEIEGHHLASAAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMQVIGEPGRVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLVEQGM

>AAA33405.1 Allergen Lol p 5; ribonuclease [Lolium perenne]

MAVQKHTVALFLAVALVAGPAASYAADAGYAPATPATPAAPATAATPATPATPAAVP
SGKATTEEQKLIKINAGFKA AVAAA VVPADKYKTFVETFGTATNKAFVEGLASGYAD
QSKNQLTSKLDAAKLA YEAAQGATPEAKYDAYVATL TEALRVIAGTLEVHAVKPAAEV
KVGAI PAEVQLIDKVDAA YRTAATAANA APANDKFTVFENTFNNAIKVSLGAA YDSYKF
IPTLVAAVKQAYAAKQATAPEVKYTVSETALKKAVTAMSEAEKEATPAAAATATPTPAAA
TATATPAAAYATATPAAATATATPAAATATPAAAGGYKV

>AAB29137.1 Allergen beta-casein A3 [Bos taurus]

MKVLILACLVALALARELEELNVPGEIVESLSSESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPPFGPIPNLQNIPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
QKEMPPFKYPVEPFTESQSLTLTDVENLHLPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPQAFLLYQEPVLPVVRGPFPIIV

>P34071.1 Putative RecName: Full=Enterotoxin type C-2; AltName: Full=SEC2; Flags: Precursor [Staphylococcus aureus]

MNKSRLFISCVILIFALILVLFTP NVLAESQPDPTDELHKSSEFTGTMGNMKYLYDDHYV
SATKVM SVDKFLAHDLIYNISDKKLKNDKVKTELLNEDLAKKYKDEVVDVYGSNYVNC
YFSSKDNV GKV TGGKTCMYGGITKHEGNHFDNGNLQNVLIRVYENKRNTISFEVQTDKKS
VTAQELDIKARNFLINKK NL YEFNSSPYETGYIKFIENNGNTFWYDMMPAPGDKFDQSKY
LMMYNDNKT VDSKSVKIEVHLTTKNG

>P33556.1 Putative Nonspecific lipid-transfer protein P2 (LTP P2) [Vitis sp.]

AITCGQVSSALSSCLGYLKNNGAVPPGSSCGIKNLNSA

>P80274.1 Putative Nonspecific lipid-transfer protein P4 (LTP P4) [Vitis sp.]

TVTTCGQVASALSPCIDYLQKDGA VPAGSCCXKXLSSA

>CAA55068.1 minor allergen Cla h 7 [Cladosporium herbarum]

MAPKIAIFYSTWGHVQTLAEAEAKGIREAGGSVDLYRVPETLTQEVLTKMHAPPKDDSI
PEITDPFILEQYDRFP HGHPTRYGNFPAQWRTFWDRGTGGQWQTGAFWKGKYAGLFISTGTQ
GGGQESTALAAMSTLSHHGIIYVPLGYKTTFHLLGDNSEVRGAAVWGAGTFSGGDGSRQP
SQKELELTAQGKAFYEAVAKVNFQ

>CAA55070.1 Allergen Cla h 6; enolase [Cladosporium herbarum]

MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSVASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIPALIKENLDVKDQAAVDAFLNKLDDGTTNKTGIGANAILGVSMVA
AAAAEKRVPLYAHISDLSGTKKPFVLPVPMNVVNGGSHAGGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLKSLTKKRYGQSAGNVGDEGGVAPDIQTAEALDLITDAIEEAGYTGQ
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWITYEQLADQYNELAAKYPIVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKKAJETKACNALLKVNQIGTITEAI
NAAKDSFAAGWGMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKRLYAGDNFRTAINL

>CAA55390.1 Allergen Phl p I allergen [Phleum pratense]

MASSSVLLVVVLFVFLGSAYGIPKVPPGNITATYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVDPKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAPYHFDLSGHAFGAMAKKGDEQKLSAGELELQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKYVNGDGDVVAVDIKEKGGKDWIELKESWGAIWRIDTPDKLTGPFTVRYTTEG
GTKTEAEDVIPEGWKADTSYESK

>S38584 Allergen allergen Phl p Vb - common timothy [Phleum pratense]

MAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAARQ
RPAADKFKTFEAASPRHPRPLRQGAGLVPKLDAAYSVAYKAAVAVGATPEAKFDSFVASL
ALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKAATAAATAPADDKFTVF
EAAFNKAIKESTGGAYDTYKIPSLEAAVKQAYAAVAAAEEVKYAVFEAALTKAITAMS
EVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>CAA55854.1 Allergen Bet v 3; calcium-binding protein / polcalcin [Betula pendula]

MPCSTEAMEKAGHGHASTPRKRSLSNSSFRRLRSESLNTRLRLRRIFDLFDKNSDGIIIVDE
LSRALNLLGLETDLSELESTVKSFTREGNIGLQFEDFISLHQSLNDSYFAYGGEDEDDNE
EDMRKSILSQEADSFGGFKVFEDEDGDGYISARELQMVVLGKLGFSSEGSEIDRVEKMIVSV
DSNRDGRVDFFEFKDMMRSVLRSS

>BAA05542.1 Putative Cry j IA precursor [Cryptomeria japonica]

MDSPCLVALLVLSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIFSGNMNIKLMMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVHGLHLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLSTGVTISNNLFFNHKVMMLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGSSNPTILSEGNSTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>BAA05543.1 Putative Cry j IB precursor [Cryptomeria japonica]

MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIFSGNMNIKLMMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHKVMMSLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGSSNPTILSEGNSTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPHLT
QNAGVLTCSLSKRC

>BAA06172.1 Allergen Cry j 2; polygalacturonase [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNRNLWQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIQLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIYENVEMINSENPIINQFYCTSASACQNQRS
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKPKTMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>CAA56343.1 Putative Kunitz trypsin inhibitor [Glycine max]

MKSTTSLALFLLCALTSSYQPSATADIVFDTEGNPIRNGGTYYVLPVIRGKGGGIEFAKT

ETETCPLTVVQSPFEGLRQGLPLIISSPFKILDITEGLILSLKFHLCTPLSLNSFSVDYR
SQGSARRTPCQTHWLQKHNRWFRIQRASSESNYKLVFCTSNDDSSCGDIVAPIDREGN
RPLIVTHDQNHPLL VQFQKVEA YESSTA
>AAA19973.1 Putative Der p 3 allergen [*Dermatophagoides pteronyssinus*]
MIIYNILIVLLLAINLANPILPASP NATIVGG EKALAGECPYQISLQSSSHFCGGTILD
EYWILTA AHCVAGQTASKLSIRYNSLKHSLGGEKISVAKIFAHEKYDSYQIDNDIALIKL
KSPMKLNQKNAKAVGLPAKGS DVKVG DQVRVSGWGYLEEGSYSLPSELRRVDIAV VSRKE
CNELYSKANA EVDN MICGGDVANGGK DSCQGD SGGPVVDVKNNQVVGIVSWGYGCARKG
YPGVYTRVGNFIDWIESKRSQ

>AAA68279.1 Allergen Dol m 2; hyaluronidase [*Dolichovespula maculata*]
SERPKRVFN IYWNVPTFMCHQYGLYFDEV TNFN IKHNSKDDFQGDKISIFYDPGEFPALL
PLKEGNYKIRNGGVPQEGNIT IHLQRFIENLDKTYPNRN FNIGIGVIDFERWRPIFRQNWG
NMMIHKKFSIDLVRNEHPFWDKKMIELEASKRFEKYARLFMEETLKLAKKTRKQADWGYY
GYPYCFNMSPNNLVPDCDATAMLENDKMSWLFNNQNVLLPSVYIRHELTPDQRVGLVQGR
VKEAVRISNNLKHSPK VLSYWWYVYQDDTNTFLTETDVKKTFQEIAINGGDGIIIWGSSS
DVNSLSKCKRLREYLLTVLGPITVNVTTETVN

>AAB60215.1 Allergen Der p 1 allergen preproenzyme [*Dermatophagoides pteronyssinus*]
MKIVLAIASLLALS AVYARPSSIKTFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSDSLDEFKNRFLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTV
TPIRMQGGCGSCWAFSGVAATESAYL AYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEY
IQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRTHIQRDNGYQPNYHAVNIVGYSNAQGV DYWIVRNSWDTNWGDNGYG
YFAANIDLMMIEEYPYVVIL

>AAA20065.1 Allergen Amb p V allergen [*Ambrosia psilostachya*]
MNNEKNVSFEFIGSTDEVDEIKLLPCA WAGNVCGEKRAYCCSDPGRYCPWQVVCYESSEI
CSQKCGKMRMNVTKNTI

>AAA20067.1 Allergen Amb p V allergen [*Ambrosia psilostachya*]
MNNEKNVSFEFIGSTDEVDEIKLLPCA WAGNVCGEKRAYCCSDPGRYCPWQVVCYESSKI
CSQKCGKMRMNVTKNTI

>AAA20064.1 Allergen Amb p V allergen [*Ambrosia psilostachya*]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYCSSDPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>AAA20066.1 Allergen Amb p V allergen [*Ambrosia psilostachya*]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYSSSDPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>AAA20068.1 Allergen Amb p V allergen [*Ambrosia psilostachya*]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYCTNPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>BAA07020.1 Putative Cry j I precursor [*Cryptomeria japonica*]
MDSPLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYT VTN SDDDPVNPAPGTLRYGATRDRPLWII FSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNV IIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHHKVMLLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGGSSNPTILSEGN SFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>CAA54696.1 Allergen Bet v 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [*Betula pendula*]
MGVFN YEDEATSVIAPARLFKSFVLDADNLIPKVAPENVSSAENIEGNGGPGTIKKITFP
EGSHFKYMKHRVDEIDHANFKYCYSIIEGGPLGDTLEKISYEIKIVAAPGGGSILKITSK
YHTKGDISLNEEEIKAGKEKGAGLFAVENYLV AHPNAYN

>CAA54695.1 Allergen 1 Sc2 [*Betula pendula*]
GVFDYEGETTSVIP AARLFKAFILDGDNLIPKVAPQAVSCVENIEGNGGPGTIKKITFPE
GSPFKYVKERVDEVD RNVFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNKY
HTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHS DAYN

>CAA54694.1 Allergen 1 Sc1 [Betula pendula]

MGVFDYEGETTSVIPARLFKAFILDGDNLIPKVAPQTVSCVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHVNFKYSYSVIEGGA VGD TLEKICNEIKIVPAPGGGSILKISNK
YHTKGNHEMKAQEKASKEKAEALFRAVESYLLAHS DAYN

>A60373 Putative pollen allergen (clone 7.2) - Kentucky bluegrass (fragment) [Poa pratensis]

EFPGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFPAL
EAAVKQSYAATVATAPAVKYTVFETALKKAITAMAQAQKAAPAAVTGIATSAVGAATG
AATAAAGGYKA

>AAB29344.1 Putative 36 kda allergen {peptide 143-111} [Blattella germanica]

APPGCSNHFNLETVFGNFVK

>AAB29345.1 Putative 36 kda allergen {peptide 143-115} [Blattella germanica]

GLNICQIDCNKIQLPXLVFTIGGD

>P35775.1 Putative Venom allergen 2 precursor (Venom allergen II) (Allergen Sol i 2) (Sol i II) [Solenopsis invicta]

MKSFVLATCLLGFAQIIYADNKELKIIRKDVAECLRTL PKCGNQPDPLARVDVWHCAMA
KRGVYDNPDP AVIKERSMKMCTKIITDPANVENCKKVASRCVDRETQGP KSNRQKAVNII
GCALRAGVAETTVLARKK

>P35781.1 Putative Venom allergen 5.01 (Antigen 5-1) (Ag5-1) (Allergen Vesp c 5.01) (Vesp c V.01) [Vespa crabro]

NNYCKIKCRSGIHTLCKYGTSTKPNCGKNVVKASGLTKQENLEILKQHNEFRQKVARGLE
TRGNPGPQPPAKSMNTLVWNDELAQIAQVWANQCNYGHDNCRNSAKYSVGQNI AEGSTTA
DNFGSVSNMVKMWEDEVKDYQY GSPKNKLNKVGHYTQMVWAKTKEIGCGSIKIYIENGWHR
HYLVCNYGPAGNVGNEPIYERK

>P35782.1 Putative Venom allergen 5.02 (Antigen 5-2) (Ag5-2) (Allergen Vesp c 5.02) (Vesp c V.02) [Vespa crabro]

NNYCKIKCRSGIHTLCKYGTSTKPNCGKNVVKASGLTKQENLEILKQHNEFRQKVARGLE
TRGNPGPQPPAKSMNTLVWNDELAQIAQVWANQCNYGHDNCRNSAKYSVGQNI AEGSTSA
DNFVNVSNMVKMWEDEVKDYQY GSPKNKLNKVGHYTQMVWAKTKEIGCGSEDI EDGWHR
HYLVCNYGPAGNVGNEPIYERK

>P35780.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Pol f 5) (Pol f V) [Polistes fuscatus]

VDYCKIKCSSGIHTVCQYGESTKPSKNCADKVIKSVGPT EEEKKLIVNEHNRFRQKVAQG
LETRGNPGPQPAASDMNMLVWNDELAHIAQVWASQCQILVHDKCRNTAKYQV GQNIAYAG
GSKLPDVVSLIKLWENEVKDFNYNKGITKQNF GKVGHYTQMIWAKTKEIGCGSLKYMKNN
MQHHYLICNYGPAGNYLGQLPYTKK

>P35783.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves f 5) (Ves f V) [Vespula flavopilosa]

NNYCKIKCLKGGVHTACKYGLSKPNCGNKVVVSYGLTKQEKQDILKEHND FRQKIARGLE
TRGNPGPQPPAKNMKNLVWNDELA YVAQVWANQCQYGHDTCRDI AKYQVGNVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGN NFLKTGHYTQMVWANTKEVGC GSIKFIQEKW
HKHYLVCNYGPSGNFQNEELYQTK

>P35784.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves g 5) (Ves g V) [Vespula germanica]

NNYCKIKCLKGGVHTACKYESLKPNCANKKVVA YGLTKQEKQDILKEHND FRQKIARGLE
TRGNPGPQPPAKNMKNLVWSDELA YIAQVWANQCQYGHDTCRDVA KYPVGQNVALTGSTA
AKYDNPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTQMVWANTKEVGC GSIKIYIQDKW
HKHYLVCNYGPSGNFQNEELYQTK

>P35760.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves m 5) (Ves m V) [Vespula maculifrons]

NNYCKIKCLKGGVHTACKYGLSKPNCGNKVVVSYGLTKQEKQDILKEHND FRQKIARGLE
TRGNPGPQPPAKNMKNLVWSDELA YIAQVWANQCQYGHDTCRDVA KYQVGNVALTGSTA
AVYNDPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTQMVWANTKEVGC GSIKIYIQENW
HKHYLVCNYGPSGNFQNEELYQTK

>P35785.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves p 5) (Ves p V) [Vespula pensylvanica]

NNYCKIKCLKGGVHTACKYGLSKPNCGNKIVVSYGLTKEEKQDILKEHND FRQKIARGLE
TRGNPGPQPPAKNMKNLVWNDELA YVAQVWANQCQYGHDTCRDVA KYPVGQNVALTGSTA
DKYDNPVKLVKMWEDEVKDYNPKKKFSENNFNKIGHYTQMVWANTKEIGCGSIKIYIQNEW
HKHYLVCNYGPSGNFQNEELYQTK

>P35786.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves s 5) (Ves s V) [Vespula squamosa]

VDYCKIKCLKGGVHTACKYGTSTKPNCGNMVVKS YGVTQAEKQEILKIHNDFRNKVARGL
ETRGNPGPQPPAKNMNMLVWNNELANIAQIWASQC KYGHDTCKD TTKYNVGNIAVSSST

AAVYENVGNLVKAWENEVKDFNPTISWEQNEFKKIGHYTMVMWAKTKEIGCGSIKYVDNN
WYTHYLCVNYGPAGNFGNQEYERK

>P35787.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves vi 5) (Ves vi V) [*Vespula vidua*]
KVNYCKIKCLKGGVHTACKYGTSTKPNCGKMMVVKAYGLTEAEKQEILKVHNDFRQKVAKG
LETRGNPGPQPPAKNMNVLWNDELANIAQVWASQCNYGHDTCKDTEKYPVGGQNIKRST
TAALFDSPGKLVKMWENEVKDFNPNIEWSKNNLKKTGHYTMVMWAKTKEIGCGSVKYVKD
EWYTHYLCVNYGPSGNFRNEKLYEKK

>AAA28302.1 Allergen antigen 5 precursor [*Dolichovespula maculata*]
PIINLSFGEANNYCKIKCSRGHITLCKFGTSMKPNCGSKLVKVHGVSNDEKNEIVNRHNQ
FRQKVAKGLETRGNPGPQPPAKNMNVLWNDELAKIAQTWANQCSFGHDQCRNTEKYQVG
QNVIAIATTTGNSYATMSKLIEMWENEVKDFNPKKGTMGDNNFSKVGHYTMVMWVGKTKKEIG
CGSVKYIENNWHYTHYLCVNYGPAGNYMDQPIY

>AAC37218.1 Allergen Aed a 1; apyrase [*Aedes aegypti*]
MAGRPGYSAVIFLYVVSVAVIARATDNMPPNKDVSKLFPPLTLIHINDLHARFEETNMKSN
ACTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGTLLWYNLLRWNVTAADFIKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDKIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGPYPTIVESKNKRKIPIVQAKS
FGKYVGRLTLYFDDTGEVQHWEGYPVFIDHKVQQDPQILKDLVPWREKVEAIGSTVVGET
KIELDRDSCRDQECTLGVLADGFADQYTNDFRPFQAGNFRNPIKVGKITNGDIE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPIRSRVKKIE
VMDYTNPKSDELKPLDKQAEYYIVVPSYLADGKDGFSAMKRATARTGPLDSDVFKNYVE
KIKKVDNLKLGRVIVCKGSKCT

>Q08169.1 Allergen Hyaluronoglucosaminidase precursor (Hyaluronidase) (Hya) (Allergen Api m 2) (Api m II) [*Apis mellifera*]

MSRPLVITEGMMIGVLLMLAPINALLLGFVQSTPDNNKTVREFNVYWNVPTFMCHKYGLR
FEEVSEKYGILQNWMDKFRGEEIAILYDPGMFPALLKDPNGNVVARNGGVPQLGNLTKHL
QVFRDHLINQIPDKSFPVGVVIDFESWRPIFRQNWASLQPYKKLSVEVVRREHPFWDQR
VEQEAKRRFEKYGQLFMEETLKAAKRMRPAANWGYAYPYCYNLTPNQPSAQCEATTMQE
NDKMSWLFESDVLPSVYLRWNLTSGERVGLVGGRVKEALRIARQMTTSRKKVLPYYWY
KYQDRRDTDLRADLEATLRKITDLGADGFIIWGSSDDINTKAKCLQFREYLNNELGPAV
KRIALNNNANDRLTVDVSDQV

>P32936.2 Allergen Alpha-amylase/trypsin inhibitor CMb precursor (Chloroform/methanol-soluble protein CMb) [*Hordeum vulgare*]

MASKSSCDLLAAVLVSIFAAVAAGVSEDCTPWTATPITPLPSCRDYVEQQACRIETPGP
PYLAKQQCCGELANIPQQCRCQALRFFMGRKSRPDQSGLMELPGCPREVQMDVFRILVTP
GFCNLTTVHNTPYCLAMDEWQWNRQFCSS

>CAA57160.1 Putative LepdI allergen, partial [*Lepidoglyphus destructor*]

IHRGEKMTLEAKFAANQDTAKVTIKVLAKVAGTTIQVPGLETGCKFIKCPVKKGEALDF
IYSGTIPAITPKVKADVTAELIGDHGVMACGTVHGQVE

>AAA60330.1 Allergen Met e 1; tropomyosin [*Metapenaeus ensis*]

MKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQVQESLLKANNQ
LVEKDKALSNAEGEVAALNRRRIQLLEEDLERSEERLNTATTKLAEASQAADSESRMRKVL
ENRSLSDERMDALENLKEARFLAEEADRKYDEVARKLAMVEADLERAEERAETGESKI
VELEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLQ
KEVDREDELVNEKEYKSITDELDTFSELSGY

>CAA57342.1 Allergen Cand a 1; alcohol dehydrogenase [*Candida albicans*]

MSEQIPKTQKAVVFDTNGGQLVYKDYVPVTPKPNELLIHVKYSVCHTDLHARKGDWPLA
TKLPLVGGHEGAGVVVGMGENVKGWKIGDFAGIKWLNGSCMSCEFCQQGAEPNCGEADLS
GYTHDGSFEQYATADAVQAAKIPAGTDLANVAPILCAGVTVYKALKTADLAAGQWVAISG
AGGGLGSLAVQYARAMGLRVVAIDGGDEKGEFVKS LGAEAYVDFTKDKDIVEAVKKATDG
GPHGAINVSVSEKAIDQSVEYVRPLGKVVLVGLPAHAKVTAPVFDAVVKVKSIEIKGSYVGN
RKDTAEAIDFFSRGLIKCPIKIVGLSDLPEVFKLMEEGKILGRYVLDTSK

>S43242 Putative allergen-like protein Syr v I isoform 1 - *Syringa vulgaris* [*Syringa vulgaris*]

NLKRYVERMESLPRVSDYIKKQPKTFNAPTSKWNASYA

>BAA06905.1 Allergen Cuc m 1; serine protease (cucumisin) [Cucumis melo]

MSSSLIFKLFSSNRLASRLDSDDDGKNIYIVYMGRKLEDPDS AHLHHRAMLEQVV
GSTFAPESVLHTYKRSFNGFAVKLTEEEAEKIASMEGVVSVFLNEMNELHTTRS WDFLGF
PLTVPRRSQVESNIVVGVLDGTGIWPESPSFDDEGFSPPPP KWKGT CETSNNFRCNRKIIG
ARSYHIGRPISPGDVNGPRDTNGHGHTASTAAGGLVSQANLYGLGLGTARGGVPLARIA
AYKVCWNDGCSDTDILAAAYDDAIADGVDIISLSVGGANPRHYFVDAIAIGSFHAVERGIL
TSNSAGNGGPNFFTTASLSPWLLSVAASTMDRKFVTQVQIGNGQSFQGV SINTFDNQYYP
LVSGRDIPNTGFDKSTSRFCTDKSVNPNLLK GKIVVCEASFGPHEFFKSLDGAAGVLMTS
NTRDYADS YPLPSSVLDPNDLLATLRYIYSIRSPGATIFKSTTILNASAPVVVSFSSRGP
NRATKDVIKPDISGPGVEILAAWPSVAPVGGIRRNTLFNIISGTSMSCPHITGIATYVKT
YNPTWSPA AIKSALMTTASPMNARFNPQAEFAYGSGHVNPLKAVRPGLVYDANESDYVKF
LCGQGYNTQAVRRITGDYSACTSGNTGRVWDLNYP SFGLSVSPSQTFNQYFNRTLTSVAP
QASTYRAMISAPQGLTISVNPVLSFNGLGDRKSFTLTVRGSIKGFVVSASLVWSDGVHY
VRSPITITSLV

>CAA23682.1 Allergen Ovalbumin-like protein [Gallus gallus]

MGSIGAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVR
DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNDVYSFSLASRLYAEERYPI LPEYLQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIV
FKGLWEKTFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTM
SMLVLLPDEVSGLEQLESII NFEKLTWETSSNVMEERKIKVYLPRMKMEEKYNLTSVLMA
MGITDV FSSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGSAEAGVDAASVSEEFR
ADHPFLFCIKHIATNAV LFFGRCVSP

>CAA60628.1 Putative BETV4 protein [Betula pendula]

MADDHPQDKAERERIFKRFDANGDGKISAAELGEALKTLGSITPDEVKHMMAEIDTDGDG
FISFQEFTDFGRANRGLLKDVAKIF

>AAB01362.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEY TSEIPPRLFKAFVLDADNLIPKIA PQA IKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDS VDEANYSYAYTLIEGDALTD TIEKVS YETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>CAA59279.1 Allergen Fel d 2; serum albumin [Felis catus]

MKWVTFISLLLLFSSAYS RGVTRREAHQSEIAHRFNDL GEEHFRGLVLVAFS QYLQQCPF
EDHVKL VNEVTEFAKGC VADQSAANCEKSLHELLGDKLCTV ASLRDKY GEMADCCEKKEP
ERNECFLQHKDDNPGFGQLVTPEADAMCTAFHENEQRFLGKYL YEIARRHPYFYAPELLY
YAEYKGVFTECCEAADKAACLTPKVDALREKVLASSAKERLKCASLQKFGERA FKAWSV
ARLSQKFPKAEFAEISKLVTDLAKIHKECCHGDLLECADDRADLAKYICENQDSISTK LK
ECCGKPVLEKSHCISEVERDEL PADLPLAVDFVEDKEVCKNYQEAKDVFLGTFLYEYSR
RHPEYSVSLLLRLAKEYEATLEKCCATDDPACYAHVFDEFKPLVEEPHNLVKTNCELFE
KLGEYGFQNALLVRYTKKVPQVSTPTLVEVSRSLGKVGSKCCTHPEAERLS CAEDYLSVV
LNRLCVLHEKTPVSE RVTKCCTESLVNRRPCFSALQVDETYVPKEFSAETFTFHADLCTL
PEAEKQIKKQSALVELLKHKPKATEEQLKTVMGDFG SFVDKCCAEDKEACFAEEGPKLV
AAAQALA

>CAA88833.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIA PQA IKA EILEGN GGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTD TIEKIS YETKLVACGSGATIKSISHY
HPKGNIEIKEEHVKVGKEKGHGLFKLIESYLKGHPDAYN

>CAA59338.1 Putative low molecular weight glutenin [Triticum aestivum]

FALIAVVATSTIAQMETSCIPGLERPWQQQPLPQQTLFPQQQPFPPQQQPPFSQQQPSFS
QQQPPFSQQQPILPEPPFSLQQQPVLPPQQSPFSQQQLVLPQQQQQQQLPQQQISIVQPSVL
QQLNPCKVFLQQQCSPVAMPQRLARSQM WQQSRCHVMQQCCQQLSQIPEQSR YDAICAI
TYSIILQEQQQGFVQAQQQQPQQSGGQVSQSQQQSQQQLGQCSFQQPQQ

>CAA59339.1 Putative low molecular weight glutenin [Triticum aestivum]

HIPSLEKPLQQQPLPQQILWYQQQQPIQQQPFPQQPPCSQQQQPPLSQQQQPPFSQQ
QPPFSQQQPILPQQPPFSQQQQQFPQQQQLLPQQPPFSQQQPFSQQQQQPPFSQQQQ

QPILLQQPPFSQHQQPVLPQQQIPSVQPSILQQLNPCKVFLQQQCSPVAMPQSLARSQML
WQSSCHVMQQQCCRQLPQIPEQSRYPDRAIRAIYSIVLQEQQHGGQGLNQPQQQQPQQSVQG
VSQPQQQQKQLGQCSFQQPQQ

>CAA59340.1 Putative low molecular weight glutenin [*Triticum aestivum*]

HIPSLEKPSQQQPLPLQQILWYHQQQPIQQQPFPQQPPCSQQQQPPLSQQQQPPFSQQ
QPPFSQQELPILPQQPPFSQQQQPQFSQQQQPFPQQQQPLLLQQPPFSQQRPPFSQQQQQ
PVLPPQQPPFSQQQQQPILPQQPPFSLHQQPVLPPQQIPYVQPSILQQLNPCKVFLQQQC
SPVAMPQSLARSQMLWQSSCHVMQQQCCQQLPRIPEQSRYPDRAIRAIYSIVLQEQQHGGQ
FNQPQQQQPQQSVQGVSQPQQQQKQLGQCSFQQPQQ

>AAB48072.1 Allergen Ves v 1; phospholipase A1 [*Vespula vulgaris*]

MEENMNLKYL L LFVYFVQVLNCCYGHGDP LSYELDRGPKCPFNSDTVSIIIETREN RNRD
LYTLQTLQNHPEFKKKTITRPVVFITHGFTSSASETNFINLAKALVDKDNMVISIDWQT
AACTNEAAGLKYLYYPTAARNTRLVGQYIATITQKLVKHYKISMANIRLIGHSLGAHASG
FAGKKVQELKLGKYSEIIGLDPARPSFDSNHCSERLCETDAEYVQIIHTSNYLGTEKTLG
TVDFYMNNGKNQPGCGRFFSEVCSHSRAVIYMAECIKHECCLIGIPKSKSSQPISSCTKQ
ECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>CAA24933.1 Allergen HMW gluten-like protein product [*Triticum aestivum*]

EKLGQGGQPRQWLQPRQGGQGYPTSPQQSGQGQQLGQGGQGYPTSPQQSGQGQGYDS
PYHVSAEHQAASLKVAKAQLAAQLPAMCRLEGGDALLASQ

>AAA78904.1 Allergen Blo t 12; chitin binding protein [*Blomia tropicalis*]

MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTQCTHEETTSTQHHHEEVV
TTQTPHHEEKTTEETHHSDDLIVHEGGKTYHVVCHEEGPIHIQEMCNKYIICSKSGSLW
YITVMPCSIGTKFDPISRNCVLDN

>AAB32842.1 Allergen Der p V allergen [*Dermatophagoides pteronyssinus*]

MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDLLMERIHEQIKKGELALFYLQEQINHFE
AKPTKEMKDKIVAEMDTIIMIDGVRGVLDRMLQRKDLDFEQYNLEMAKKSGDILERDL
KKEEARVKKIEV

>CAA51775.1 Allergen allergen Lol p II [*Lolium perenne*]

EFTVEKGSDEKNLALSIIKYSKEGDAMAEVELKEHGSNEWLALKKNGDGVWEIKSDKPLKG
PFNFRFVSEKGMWNVDFDDVVPADFKVGT

>CAA59419.1 Allergen Asp f 10; aspartate protease [*Aspergillus fumigatus*]

MVVFSKVTA VVVGLSTIVSAVPVVQPRKGFTINQVARPVTKKTVNLPAVYANALTKYGG
TVPDSVKA AASSGSAVTTPEQYDSEYLTPVKVGGTTLNLDFTGSADLWVFSSSELSASQS
SGHAIYKPSANAQKLNQYTWKIYQYGDGSSASGDVYKDTVTVGGVTAQSQA VEAA SHISSQ
FVQDKDNDGLLGLAFSSINTVSPRPQTTFDVTVKSQ L DSPLFAVTLKYHAPGTYDFGYID
NSKFQGELTYTDVSSQGFWMFTADGYGVGNGAPNSNSISGIADTGTLLLLDDSVVADY
YRQVSGAKNSNQYGGYVFP CSTKLPSFTTVIGGYNAVVPGEYINYAPVTDGSSTCYGGIQ
SNSGLGFSIFGDIFLKSQYVVFDSQGPRLGFAPQA

>CAA54587.1 Allergen Par j 1; lipid transfer protein (LTP) type 1 [*Parietaria judaica*]

MVRALMPCLPFVQGEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPIDVNMDCKTVGVVPRQPQLPVSLRHGPVTGSPDPAHKARLER
PQIRVPPPPEKA

>BAA04149.1 Allergen Sola t 4; serine protease inhibitor 7 [*Solanum tuberosum*]

MKCLFLLCCLVPIVVFSSFTFSKNPINLPSDATPVL DVAGKELDSRLSYRIISTFWGAL
GGDVYLGKSPNSDAPCANGIFRYNSDVGPSGTPVRFIGSSSHFGQGIFENELLNIQFAIS
TSKLCVSYTIWKVGDYDASLGTMLLETGGTIGQADSSWFKIVKSSQFGYNLLYCPVTSTM
SCPFSSDDQFCLKVGVVHQNGKRRALVKDNPLDVSFKQVQ

>AAB34365.1 Allergen Sec c 38; alpha amylase inhibitor [*Secale cereale*]

EQCYGESCRV GKSISN NPVPACREYV

>AAB34785.1 Allergen Pen ch 20; N-acetyl glucosaminidase / N-acetyl hexosaminidase [*Penicillium chrysogenum*]

GPYKTWQRIYDYDFLTNLTSSSEANDIIGAEAPLWSEQVDDVTVSSVFWPRAAALGELVWS
GNRDAAGRKR TTSFTQRILNFREYLVANGVMAAALVPKYCLQHPHACDLYKNQTVMS

>CAA58755.1 Putative Lep D 2 allergen precursor [*Lepidoglyphus destructor*]

MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ

DTNKVTIKVLAKVAGTTIQVPGLETGCKVLKCPKKGGEALDFNYGMTIPAITPKIKADV
TAELVGDHGVMACGTIHGQVE

>CAA50008.1 Allergen Vig r 4; seed albumin [*Vigna radiata* var. *radiata*]

MSNLPYINAAFRFSSRDYEVYFFAKNKYVRLQYTPGKTEDKILTNLRLISSGFPSLAGTP
FAEPGIDSAFHTEASEAYVFSANNRAYIDYAPGTTNDKILAGPTTIAEMFPVLRNTVFAD
SIDSAFRSTKGKEVYLFKGNKYVRIDYDSKQLVGSIRNISDGFPVLNGTGFESGIDASFA
SHKEPEAYLFKGDKYVRIHFTPGKTDDTLVGDVRPILDGWPVLKAFCLCELNKPSLSCIN
HLSLVTINKAFISNVCLFFFNVTGLGLEACFLS

>AAB34907.1 Allergen group 1 Car b 1=isoallergenic variant [*Carpinus betulus*]

GVFNYEAETPSVMPAARLFKSYVLDLFDKLIKPVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFKERVDEVDNANFK

>AAB34908.1 Allergen group 1 Car b 1=isoallergenic variant [*Carpinus betulus*]

GVFNYEAETPSVIPAARLFKSYVLDLFDKLIKPVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFKERVDEVDNANFK

>AAB34909.1 Allergen group 2 Car b 1=isoallergenic variant [*Carpinus betulus*]

GVFNYEAEETTSVIPAARLFKAFILDGNKLIPKVSPQVSSVENVEGNGGPGTIKKITFSE
GIPVKYVKERVEEIDHTNFK

>CAA62909.1 Allergen allergen sin a 1.0104 [*Sinapis alba*]

PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPRVCNIRQVSVCPFKTTPGPGS

>CAA62910.1 Allergen allergen sin a 1.0105 [*Sinapis alba*]

PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLEGEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKTTPGPGS

>CAA62911.1 Allergen allergen sin a 1.0106 [*Sinapis alba*]

PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELCVCPTLKGASKAVKQQVRQQLEQQGQQGPGVQHVVISRIYQTA
THLPKVCNIPQVSVCPFKTTPGPGS

>CAA62912.1 Allergen allergen sin a 1.0107 [*Sinapis alba*]

PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKTTPGPGS

>CAA62908.1 Allergen allergen sin a 1.0108 [*Sinapis alba*]

PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
KPPLLQCCNELHQEELCVCPTLKGASKAVKQQVRQQLEQQGQQGPGVQHVVISRIYQTA
THLPKVCNIPQVSVCPFKTTPGPGS

>AAA80264.1 Allergen Der p 7 allergen polypeptide [*Dermatophagoides pteronyssinus*]

MMKLLLIAAAAFVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSKDFER
HIGIIDLKGELDMRNIQVRGLKQMKRVGDANVKSSEDGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVVNHIGGLSILDPIFA
VLSDVLTAFQDTVRAEMTKVLAPAFKKELEARNQ

>BAA11251.1 Allergen gamma-gliadin precursor [*Triticum aestivum*]

NIQVDPSGQVQWPQQQPFQPHQPFSSQQPQQTFPQPQQTFPHQPQQQFSQPQQPQQQFIQ
PQQPFPQQPQQTYPQRPPQQPFPQTQQPQQPFPQSQQPQQPFPQPQQQFPQPQQPQQSFPQ
QQPSLIQQSLQQQLNPKCNFLLQQCKPVSLVSSLWSMILPRSDCQVMRQQCCQQLAQIPQ
QLQCAAHSIVHSIIMQQEQEQEQRQGVQILVPLSQQQQVGGQTLVQGQGIQPPQPAQLE
VIRSSVLQTLATMCNVYVPPYCSITIRAPFASIVAGIGGQ

>2023228A Allergen major allergen Phl p Va [*Phleum pratense*]

ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEKLIKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAAYKLAYKTAEGATPE
AKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANA
APANDKFTVFEEAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPPPLPPPQPPPLAATGAATAATGGYKV

>2103117A Putative allergen Dac g II [*Dactylis glomerata*]

EAPVTFTVEKGSDEKNLALSIIKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGPFNFRFVSEKGMNRNVFVDVVPADFKVGTTYKPEEAAASASRRRSSEVFQFLILSCQ
GRIVNNCEVLICVMRRGNAMCLIASISMHHILTLDRFFFDGLEIIYKIFKMMFQKPRTRT
CIEKDFPRSSSSSIPT

>AAB38064.1 Allergen Pru av 2; thaumatin-like protein (TLP) [*Prunus avium*]

MMKTLVVVLSLSLTILSFGGAHAATISFKNNCPYMWVWPGTLTSDQKPQLSTTGFE LASQA
SFQLDTPVPWNGRFWARTGCSTDASGKFVCATADCASGQVMCNGNGAIPPATLAEFNIPA
GGGQDFYDVSLVDGFNLPMSVTPQGGTGDCKTASCPANVNAVCPSELQKKGSDGSVVA
SACVKFGTPQYCCTPPQNTPETCPPTNYSEIFHNACPDAYSAYDDKRGTFTCNGGPNYA
ITFCP

>AAA87851.1 Allergen allergen Bla g 4 [*Blattella germanica*]

AVLALCATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYK CWIDRFSYDDA
LVSKYTDSQGKNRTTIRGRTKFEKNFTIDYNDKKGKAFSAPYSVLATDYENYAIVEGCPA
AANGHVIIYVQIRFSVRRFHPKLGDKEMIQHYTL DQVNQHKKAI EEDLKHFNLYEDLHST
CH

>CAA93121.1 Allergen Hol l 1; beta expansin [*Holcus lanatus*]

VFLGSAHGIKVPVPGPNITATYGDEWLD AKSTWYGKPTGAGPKDNGGACGYKD VDKPPFS
GMTGCGNTPIFKDGRGCGSCFEIKCSKPESCSGEPVTVHITDDNEEPIAPYHFDLSGHAF
GSMAKKGEEQKLR SAGELELKFRRVKCKYPDGTKPTFHVEKGSNP NYLALLVKYIDGDGD
VVAVDIKEK GKDKWIELKESWGAVWRV DTPDKLTGPFTVRYTTEGGTKGEAEDVIPEGWK
ADTAYEAK

>P43237.1 Allergen Allergen Ara h 1, clone P17 precursor (Ara h I) [*Arachis hypogaea*]

MRGRVSPLMLLLGILV LASVSATQAKSPYRK TENPCAQRCLQSCQQEPDDLKQKACESRC
TKLEYDPRCVYDTGATNQRHPPGERTGRQPGDYDDDRRQPRREEGGRWGPAEPRERERE
EDWRQPREDWRRPSHQQRKIRPEGREGEQE WGTGPGSEVREETS RNPNPFYFPSRRFSTRY
GNQNGRIRVLQRFDQRSKQFQNLQNH RIVQIEARPNTLVLPKHADADN ILVIQQGQATVT
VANGNNRKS FNLD EGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFEDFFPASS
RDQSSYLQGF SRNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIVK
VSKEHVQELTKHAKSVSKKGSE EEDITNPINLRDGE PDL SNNFGRLFEVKPDKKNPQLQD
LDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKG TGNLELVAVRKEQQQRGRREQEWEEEE
EDEEEEGSNREVRRYTARLKEGDVFIMPA AHPVAINASSELHLLGFGINAENNHRI FLAG
DKDNVIDQIEKQAKDLAFPGSGEQVEKLIKNQRESHFVSAR PQSQSPSSPEKEDQEEENQ
GKGPLLSILKAFN

>P43238.1 Allergen Allergen Ara h 1, clone P41B precursor (Ara h I) [*Arachis hypogaea*]

MRGRVSPLMLLLGILV LASVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTTNQRSPGERTGRQPGDYDDDRRQPRREEGGRWGPA GP
REREREEDWRQPREDWRRPSHQQRKIRPEGREGEQE WGTGPGSHVREETS RNPNPFYFPSR
RFSTRYGNQNGRIRVLQRFDQRSRQFQNLQNH RIVQIEAKPNTLVLPKHADADN ILVIQQ
GQATVTVANGNNRKS FNLD EGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFED
FFPASSRDQSSYLQGF SRNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSEN
NEGVIVKVSKEHVEELTKHAKSVSKKGSE EGDITNPINLREGEPDL SNNFGKLFV KPD
KKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKG TGNLELVAVRKEQQQRGR
EEEEDEDEEEEGSNREVRRYTARLKEGDVFIMPA AHPVAINASSELHLLGFGINAENNH
IFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKNQKESHFVSAR PQSQSQSPSSPEKE
SPEKEDQEEENQGGKGPLLSILKAFN

>P42058.1 Putative Minor allergen Alt a 7 (Alt a VII) [*Alternaria alternata*]

MAPKIAIVYYSMYGH IKKMADAELKGIQEAGGDAKLFQVAETLPQEVLDKMYAPPKDSSV
PVLEDPAVLEEFDGILFGIPTRYGNFPAQFKTFWDKTGKQWQQGAFWGKYAGV FVSTGTL
GGQETTAITSMSTLVDHGFIVPLGYKTAFSMLANLDEVHGGSPWGAGTFSAGDGSRQP
SELELNIAQAQGFYEA VAKAHQ

>P43180.2 Allergen Major pollen allergen Bet v 1-G (Bet v I-G) [*Betula pendula*]

MGVFNYESETTSVIP AARLFKAFILEGDNLIPKVAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK

YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>P43186.2 Allergen Major pollen allergen Bet v 1-M/N (Bet v I-M/N) [Betula pendula]

MGVFNYESETTSVIPAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAEHMKAIKEKGEALLRAVESYLLAHS DAYN

>P30438.2 Allergen Major allergen I polypeptide chain 1 major form precursor (Allergen Fel d 1-A) (Fel d I-A) (Allergen Cat-1) (Fel dI) (AG4) [Felis catus]

MKGACVLVLLWAALLLISGGNCEICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENA
RILKNCVDAKMTEEDKENALSVDKIYTSPLC

>P46436.3 Allergen Asc s 13; glutathione S-transferase [Ascaris suum]

MPQYKLT YFDIRGLGEGARLIFHQAGVKFEDNRLKREDWPALKPKTPFGQLP LLEVDGEV
LAQSAAIYRYLGRQFGLAGKTPMEEAQVDSIFDQFKDFMAELRPCFRVLAGFEEGDKEKV
LKEVAVPARDKHLPLLEKFLAKSGSEYVMVGKSVTWADLVITDSLASWESLIPDFLSGHLQ
LKKYIEHVRELPNIKKWIAERP KTPY

>P43212.1 Allergen Polygalacturonase precursor (PG) (Pectinase) (Major pollen allergen Cry j 2) (Cry j II) [Cryptomeria japonica]

MAMKFIAPMAFVAMQLIIMAAEDQSAQIMLDS DIEQYLRSNRSLR KVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNRNLWLQFAKLTGFTLMGKGVIDGQ GKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLI IQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQKCSDSMPCKDIKLS DISLKL TSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVKNMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SRHGKIYHP

>P42037.1 Putative RecName: Full=60S acidic ribosomal protein P2; AltName: Full=Minor allergen Alt a 5; AltName: Full=Allergen Alt a 6; AltName: Full=Allergen Alt a VI; AltName: Allergen=Alt a 5 [Alternaria alternata]

MKHLAA YLLGLGGNTSPSAADVKA VLESV GIEADSDRLDKLISELEGKDINELIASGSE
KLASVPSGGAGGAAASGGAAAAGGSAQAEAAPEAAKEEKEEDEDMGFGLFD

>AAA86533.1 Putative Ory s 1 [Oryza sativa]

MASSLLLACVVVAAMVSPSPAGHPKVPPGPNITTSYGD KWLEARPPGMVRPRVLAPKDN
GGACGYKDVDKAPFLGMNSCGNDPIFKDGKGCSCFEIKCSKPEACSDK PALIHVTDMND
EPIAA YHFDLSGLAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNP NYL
ALLVKYVAGDGDVVEVEIKEKGSEWKALKESWGAIWRIDTPKPLKGPFSVRVTTEGARR
SSAEDAIPDPGRRQRVQVNVQAK

>AAA86744.1 Allergen Bla g 2; inactive aspartic protease [Blattella germanica]

MIGLKLVTVLFVAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLTVFDSTSCN
VVVASQECVGGACVCPNLQKYEKLKPKYISDGNVQVKFFDTGSAVGRGIEDSLTISNLTT
SQQDIVLADELSQEV CILSADVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHAR
FQDGEHFGEIIFGGSDWKYVDGEFTYVPLVGD DSWKFRLDG VKIGD TT VAPAGTQAIIDT
SKAIIVGPKAYVNPINEAIGCVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSGFQPCGHS DHFFIGDFFVDHYYSEFNWENKTMGFGRSVESV

>AAA87456.1 Allergen Hev b 2; beta-1,3-glucanase [Hevea brasiliensis]

MAISSSTSGTSSSFPSRTTVM LLLFFFAASV GITDAQVGV CYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
LFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSP LLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFG LFFPKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>AAB09252.1 Putative 34 kDa maturing seed vacuolar thiol protease precursor [Glycine max]

MGFLVLLLSLLGLSSSSSISTHR SILDLDTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNSNYIRDMNANRKSPHSHRLGLNKFADITPQEFSK KYLQAPKDV SQQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV

SLSEQELVDCVEESEGSYNGWQYQSFVWVLEHGGIATDDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTETEQAFLSAILEQPISVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVDYWIAKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>BAA05540.1 Putative prepro AprM [Bacillus sp.]

MRQSLKVMVLSTVALLFMANPAAASEEKKEYLIVVEPEEVSAQSVEESYDVDVIHEFEEL
PVIHAELTKKELKKLKKDPNVKAIENAEVTISQTPVWGISFINTQQAHNRGIFGNGARV
AVLDTGIASHPDLRIAGGASFISSEPSYHDNNGHGHVAGTIAALNNSIGVLGVAPSADL
YAVKVLDRNGSGSLASVAQGIEWAINNNMHIINMSLGSTSGSSTLELAVNRANNAGILLV
GAAGNTGRQGVNYPARYSGVMAVAAVDQNGQRASFSTYGPEIEISAPGVNVNSTYTGNRY
VSLSGTSMATPHVAGVAALVKSRYPSYTNQIRQRINQTATYLGSPSLYGNGLVHAGRAT
Q

>CAA01909.1 Putative B1 protein allergen [Cynodon dactylon]

GTRRFDTNGDGKISLAELTDALRTLGSSTADEVQRMMAEIDTDGDGFIDFDEFISFCNAN
PGLMKDVAKVF

>CAA01910.1 Putative B4 protein allergen [Cynodon dactylon]

GTSFKRFDTNGDGKISLAELTDALRTLGSSTADEVQRMMAEIDTDGDGFIDFDEFISFCN
ANPGLMKDVAKVF

>BAA09634.1 Allergen Bra r 5; calcium-binding protein / polcalcin [Brassica rapa]

MADAEHERIFKKFDTDGDGKISAAELEEALKKLGSVTPDDVTRMMAKIDTDGDGNISFQE
FTEFASANPGLMKDVAKVF

>CAA65341.1 Allergen Mala s 1; unknown [Malassezia sympodialis]

MRYSTVLAALALLGTSASVLAALPDQIDVVKVKNLTPEDTIYDRTRQVFYQSNLYKGRIE
VYNPKTQSHFNVVIDGASSNGDGEQQMSGLSLLTHDNSKRLFAVMKNAKSFNFADQSSHG
ASSFHSFNLPLSENSKPVWSVNFQVQDEFQKAGKRPFGVVQSAQDRDGNSYVAFALGM
PAIARVSADGKTVSTFAWESGNGGQRPYSGITFDPHSNKLIAFGGPRALTAFDVSKPYA
WPEPVKINGDFGTLGTEKIVTVPVGNESVLVGARAPYAISFRSWDNWKSANIKKTKRSE
LQNSGFTA VADYYQGSEQGLYAVSAFFDNGAHGGRSDYPLYKLDNSILNF

>BAA07772.1 allergenic protein [Oryza sativa Japonica Group]

RHEVKRQCVAATHPAAPGTEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVG
HPMAEVFPGCRRGDLERRRRSLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA07773.1 allergenic protein [Oryza sativa Japonica Group]

RVVKRQCVAATRRRTGGADEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHP
MAEVFPGCRRGDLERARATLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA07774.1 allergenic protein [Oryza sativa Japonica Group]

FGTRFRQRQCVGPRRTRRRWTQQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATD
VGHPMAEVFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA12318.1 Allergen alpha-gliadin [Triticum aestivum]

VRVPVPLQPNQPSQQQPQEQVPLVQQQQFLGQQQPFPPQQPYPQPQPFPSQQPYLQLQP
FPQPQLPYSQPQFRPQQPYPQPQYQSQPEPISQQQQQQQQQQILQQILQQQLIPCM
DVVLQQHNIAGRSQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIQNVVHAILHQQQKQ
QQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQDQGSVQPQQLPFEEIRNLALQTLPAMC
NVYIPPYCTIAPFGIFGTN

>BAA09920.1 Putative prepro Der f 3 [Dermatophagoides farinae]

MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKT
PMTLDQTNAPVPLPAQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSQCQDSSGGPVVDVATKQIVGIVSWGYGCAKGY
GVYTRVGNFVDWIESKRSQ

>AAB36008.1 Putative mAb 2F9-reactive major allergen {N-terminal} [Parietaria officinalis]

APAGGVVPIIMPPXXFF

>AAB36009.1 Putative mAb 8C7-reactive major allergen {N-terminal, band 1} [Parietaria officinalis]

APAGGVVVAAMPPPL

>AAB36010.1 Putative mAb 8C7-reactive major allergen {N-terminal, band 2} [Parietaria officinalis]

GPVGGVVHAHMPLL

>AAB36011.1 Putative mAb 3F8-reactive major allergen {N-terminal} [Parietaria officinalis]

EEXGGVVGALMPPLL

>AAB36012.1 Putative mAb 8B6-reactive major allergen {N-terminal} [Parietaria officinalis]

GTTGTVVGALMPPLFVQGKEKEXPPSXXG

>CAA96534.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVFNYETEFTSVIPARLNFNAFVLDADNLPKIAPQAVKSAEILEGDDGGVGTIKKINFG

EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY

HTKSDVEIKEEHVKAGKEKASHLFLKIENYLLAHS DAYN

>CAA96535.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVFNYETETTSVIPAPRLFKAFILDGDNLPKIAPQAIKSTEIIEGDDGGVGTIKKVTFG

EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTS

YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>CAA96536.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVFNYETEFTSVIPAPRLFKAFILDGDNLPKIAPQAIKSTKIIEGDDGGVGTIKKVTFG

EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTNSH

YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>CAA96537.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVFNYETEFTSVIPAPRLFKAFILDGDNLPKIAPQAIKSTEIIEGDDGGVGTIKKVTFG

EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTS

YRAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>AAA99805.1 Putative Der f 3 mite allergen [Dermatophagoides farinae]

IVGGVKAKAGDCPYQISLQSSSHFCGGSILDEYWILTAAHCVNGQSAKKLSIRYNTLKHA

SGGEKIQVAEIYQHENYDSMTIDNDVALIKLKTPTMLDQTNAPVPLPPQGS DVKVGDKI

RVSGWGYLQEGSYSLPSELQRVDIDVVSREQCDQLYSKAGADVSENMICGGDVANGGVDS

CQGDSGGPVVDIATKQIVGIVSWGYGCAKRGYPGVYTRVGNFVDWIESKRSQ

>CAA96546.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETETPSVIPAARLKFALDGDKLLPKVAPEAVSSVENIEGNGGPGTIKKITFP

EGSPFKYVKERVDEVDRVNFKYSFSVIEGGA VGDAL EKVCNEIKIVAAPDGG SILKISNK

FHTKGDHEINAEQIKIEKEKAEGLLKAVESYHLAHS DAYN

>CAA96539.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETEATSVIPAARLKFALDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP

EGIPFKYVKDRVDEVDHANFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK

YHTKGDHEVKAEQIKASKEMGETLLRAVERYLLAHS DAYN

>CAA96540.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLKFALDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP

EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSILKISNK

YHTKGDHEMKAEHMKAIKEKAEALLRAVESYLLAHS DAYN

>CAA96541.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETEATSVIPAARLKFALDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP

EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK

YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAA96542.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLKFALDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP

EGSPFKYVKERVDEVDHANFKYAYS MIEGGALGDTLEKICNEIKIVATPDGGSILKISNK

YHTKGDHEMKAEHMKAIKEKGEALLRAVESYLLAHS DAYN

>CAA96543.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLKFALDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP

EGSPFKYVKERVDEVDHANFKYSYS MIEGGALGDTLEKICNEIKIVATPDGGSILKISNK

YHTKGDHEMKAEHMKAIKEKGEALLRAVESYLLAHS DAYN

>CAA96544.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETEATSVIPAARLKFASILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFP

EGSPFKYVKERVDEVDRVNFKYSFSVIEGGA VGDAL EKVCNEIKIVAAPDGG SILKISNK

FHTKGDHEINAEQIKIEKEKAVGLLKA VESYLLAHS DAYN

>CAA96547.1 Allergen major allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVAHKNFKYSYSVIEGGPIGDTLEKISNEIKIVATPDGRSILKISNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>CAA96548.1 Allergen major allergen Cor a 1 [Corylus avellana]

MGVFNYETESTSVIPAARLFKAFILDGNNLIPKVPAPQAVSSVENVEGNGGPGTIKKITFS
EGSPFKYVKERVEVDHTNFKYSYTVIEGGPVGDKVEKICNEIKIVAAPDGGSILKISNK
YHTKGDHEVDAEHKGGKEKVEGLFRAVEAYLLAHS DAYN

>CAA96549.1 Allergen major allergen Cor a 1 [Corylus avellana]

MGVFNYETETTSVIPARLFKRFVLDSDNLIPKVPAPKAIKSIEIEGNGGPGTIKKICFD
EGSPFNKQKVEEIDQANFSYRYSVIEGDALSDKLEKINYEIKIVASPHGGSILKSISK
YHTIGDHELKDEQIKAGKEKASGLFKAVEGYLLAHS DAYN

>CAA66403.1 Allergen Sal s 1; parvalbumin beta [Salmo salar]

MACAHLCKEADIKTALEACKAADTFSFKTFFHTIGFASKSADDDVKKAFKVIDQDASGFIE
VEELKLFLQNFPCKARELTAETKAFLKAGDADGDGMIGIDEFAVLVKQ

>AAB01092.1 Allergen Dau c 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Daucus carota]

LIFLLILSNNILNIMGAQSHSLEITSSVSAEKIFXXIVLDVDTVIPKAAPGAYKSVDVKG
DGGAGTVRIITLPEGSPITSMTVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVVP
TADGGSITKTTAIFHTKGDVVPEENIKFADAQNTALFKAIEAYLIAN

>P49370.1 Allergen Hyaluronoglucosaminidase (Hyaluronidase) (Allergen Ves v 2) (Ves v II) [Vespula vulgaris]

SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFKRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYYKRNNGVPEQGNITIHLLQKFIENLDKIYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLSSYWWYVYQDETNTFLTETDVKKTFQEIVINGGDGIIIWGSSS
DVNSLSKCKRLQDYLLTVLGPAINVTEAVN

>P49372.1 Allergen Api g 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Apium graveolens]

MGVQTHVLELTSSVSAEKIFQGFVIDVDTVLPKAAPGAYKSVEIKGDGGPGTLKIITLPD
GGPITMTLRIDGVNKEALTFDYSVIDGDILLGFIESIENHVVLVPTADGGSICKTTAIF
HTKGDVVPEENIKYANEQNTALFKALEAYLIAN

>P49148.1 Putative 60S acidic ribosomal protein P1 (Allergen Alt a 12) (Alt a XII) [Alternaria alternata]

MSTSELATSYAALILADDGVDITADKLQSLIKAAKIEEVEPIWTTLFAKALEGKDVKDLL
LNVGSGGGAAPLPEALLLRWRAADAAPAAEEKKEEKEESDEDMGFGLFD

>P02789.2 Allergen Gal d 3; ovotransferrin [Gallus gallus]

MKLILCTVLSLGIAAVCFAAPPKSVIRWCTISSPEEKCCNNLRDLTQQERISLTCVQKAT
YLDCAKAIANNEADAISLDGGQAFEAGLAPYKLPKIAAEVYEHTEGSTTSYYAVAVVKKG
TEFTVNDLQGKTSCHTGLGRSAGWNIPIGTLHRGAIEWEGIESGSVEQAVAKFFSASCV
PGATIEQKLCRQCKGDPKTKCARNAPYSGYSGAFHCLKDGGKGDVAFVKHTTVNENAPDQK
DEYELLCLDGSRQPDNYKTCNWARVAHAVVARDDNKVEDIWSFLSKAQSDFGVDTKSD
FHLFGPPGKKDPVLKDLLFKDSAIMLKRVP SLMDSQLYLGFEYYS AIQSMRQDQLTPSPR
ENRIQWCAVGKDEKSKCDRWSVVSNGDVECTVDETKDCIIMKGEADAVALDGGGLVYT
AGVCGLVPVMAERYDDESQCSKTDERPAS YFAVAVARKDSNVNWN NLKGKKSCHTAVGRT
AGWVIPMGLIHNRTGTCNFDEYFSEGCAPGSPPNSRLCQLCQSGGIPPEKCVASSHEKY
FGYT GALRCLVEKGDVAFIQHSTVEENTGGKNKADWAKNLQMDDFELLCTDGRANVMDY
REC NLAEVPTHAVVVRPEKANKIRDLLERQEKRFVNGSEKSKFMMFESQNKDLLFKDLT
KCLFKVREGTTYKEFLGDKFYTVISSLKTCNPSDILQMC SFLE GK

>P49277.1 Putative Mite allergen Der p 6 (Der p VI) (DP5) [Dermatophagoides pteronyssinus]

AIGXQPAEAEAPFQISLMK

>BAA04557.1 Allergen Der f 10; tropomyosin [Dermatophagoides farinae]

FFFVAAKQQQPSTKMEAIKKKMAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRA
LQKKIQIENELDQVQEQLSAANTKLEEK EKALQTAEGDVAALNRRIQLIEEDLERSEER
LKIATAKLEEASQSADESERM RKMLEHRSITDEERM DGL ENQLKEARMM AEDADRKYDEV
ARKLAMVEADLERAEERAETGESKIVELEELRVVGNLKSLEVSEEKAQQREEAYEQQI
RIMTAKLKEAEARAFAERSVQKLQKEVDRL EDELVHEKEKYK SISEL DQTF AELTGY

>CAA64868.1 Allergen Cas s 5; chitinase [Castanea sativa]
MKLFSLLLFLAFLLGTSAEQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSP
TTTTSSPTASSGGGGDVGLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNGFG
TTGDVTTTRKRELAFLAQTSHETTGGWATAPDGPYAWGYCFVMENNKQTYCTSKSWPCVF
GKQYYGRGPIQLTHNYNYGQAGKAIGADLINNPDLVATNPTISFKTAIWFWMTPQANKPS
SHDVIIGNWRPSAADTSAGRVPVSYGVITNIINGGLECGHGSDDR VANRIGFYKRYCDTLG
VSYGNNLDCYNQKPPFA

>I53806 Allergen major allergen OLE16 - common olive (fragment) [Olea europaea]
SQFHIQQQVYCDTCRARFITESEFIPGAGVRLECRDGEKGSITFTEVGYTRAEGLYSML
IERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPLGFFKKEVL
PKCPQVFNKLGMYPPNM

>E53806 Allergen major allergen OLE17 - common olive (fragment) [Olea europaea]
QFHIQQQVYCDTCHARFITESEFIPGASVRLQCREKENGDITFTEIGYTRAEGLYSMLV
ERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALP
KCAQVYNKLGMYPPNM

>F53806 Allergen major allergen OLE19 - common olive (fragment) [Olea europaea]
QFHIQQQVYCDTCRAGFINELSEFIPGASVRLQCREKKNGDITFTEVGYTRAEGLYSMLV
ERDHKNEFCEITLISSGRKDCNEIPIEGWAKPSLKFILNTVNGTTRTINPLGFYKKEALP
KCAQVYNKLGMYPPNM

>C53806 Allergen major allergen OLE1c - common olive (fragment) [Olea europaea]
EDVPQPPISQFYVQGQVYCDTCRTRFITEFSEFIPGAGVRLQCKDGENGKITFTEVGYTR
AEGLYSMLIERDHKNEFCEITLSSSRKDCDEIPTTEGWVKPSVKFILNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

>A38968 Allergen major allergen OLE20 - common olive (fragment) [Olea europaea]
QFHIQQQVYCDTCRARFITESEFIPGAGVRLECRDGEKGSITFTEVGYTRAEGLYSMLI
ERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPLGFFKKEVLP
KCAPQVFNKLGMYPPNM

>G53806 Allergen major allergen OLE26 - common olive (fragment) [Olea europaea]
QFHIQQQVYCDTCRAGFITESEFIPGASVRLQCKEKKNGDITFTEVGYTRAEGLYSMLV
ERDHKNEFCEITLISSGSKDCNEIPTTEGWGKPSLKFILNTVNGTTRTVNPLGFYKKEALP
KCAQVYNKLGMYPPNM

>B53806 Allergen major allergen OLE5c - common olive [Olea europaea]
EDVPQPPVSQFHIQQQVYCDTCRARFITESEFIPGASVRLQCKDGENGSITFTEVGYTR
AEGLYSMLIERDHKDEFCEITLISSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

>H53806 Allergen major allergen OLE6 - common olive (fragment) [Olea europaea]
QFHIQQQVYCDTCRARFITESEFIPGAGVRLECKDGGKGSITFTEVGYTRAEGLYSMLI
ERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPLGFFKKEVLP
KCPQVFNKLGMYPPNM

>CAA44343.1 Allergen fel d I chain 1 precursor with leader B [Felis catus]
VRRSPSTLPYCCGHSRDCEICPAVKRDVDLFLTGTPEYVEQVAQYNALPVVLENARILK
NCVDAKMTEEDKENALSVDKIYTSPLC

>CAA44344.1 Allergen fel d I chain 1 precursor with leader A [Felis catus]
EGGLCSRASLGCLALDLGWKDCEICPAVKRDVDLFLTGTPEYVEQVAQYNALPVVLENA
RILKNCVDAKMTEEDKENALSVDKIYTSPLC

>AAC80579.1 Allergen Blo t 13; fatty acid-binding protein [Blomia tropicalis]
MPIEGKYKLEKSDNFDKFLDELGVGFMVKTAAKTLKPTLEVDVQGDYVFRSLSTFKNTE
IKFKLGEEFEEDRADGKRVKTVVNKEGDNKFIQTQYGDKEVKIVRDFQGDDVVVTASVGD
VTSVRTYKRI

>BAA07710.1 allergenic protein [Oryza sativa Japonica Group]
MASNKVVFSALLLIIVSVLAATGPMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVATAHPAARGNEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMAE
VFPGRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA07711.1 allergenic protein [Oryza sativa Japonica Group]

GTRLLLIIVSVLAATTRMADHHKDQVVYSLGERCQPGMGYPMSLPRCRAVVKRQCVGHG
APGGAVDEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHPMAEVFPGCRR
GDLERAAASLPAFCNVDIPNGTGGVCYWLGYTPRTPRTGH
>BAA07712.1 allergenic protein [Oryza sativa Japonica Group]
MASNKVVIPALLVVVSVLAATTTMADHHQEQQVVYTPGQLCQPGIGYPTYPLPRCRAFK
RQCVAPGTLDEQVRRGCCRQLAGIDSSWCRCDALNHMLRIIYREERAADAGHPMAEVFRG
CRRGDIERAAASLPAFCNVDIPNGVGGVCYWLPGTGY
>BAA07713.1 allergenic protein [Oryza sativa Japonica Group]
MASNKVVFSVLLLA VVSVLAATATMAEYHHQDQVVYTPAPLCQPGMGYPMYPLPRCRALV
KRQCVGRGTAAA AEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHPMSEV
FRGCRRGDLERAAASLPAFCNVDIPNGGGGVCYWLARSGY
>CAA35188.1 Allergen trypsin inhibitor cme precursor [Hordeum vulgare]
MAFKYQLLLSAAVMLAILVATATSFQDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCDELSAIPAYCRCEALRIIMQGVVTWQGA FEGAYFKDSPNCPRERQTSYAANL
VTPQECNLGTIHGSAYCPELQPAY
>AAB36316.1 Putative Myr p II [Myrmecia pilosula]
MKLSCLLLTLAIFVLTIVHAPNVEAKALADPESDAVGFADAVGEADPIDWKKVDWKKVS
KKTCKVMLKACKFLG
>AAB35897.1 31 kda major allergen/disease resistance protein homolog {N-terminal} [Malus domestica]
AKITFTNXPNTVWPGILTGFGQKPKQ
>AAC49447.1 Allergen Hev b 5; unknown [Hevea brasiliensis]
MASVEVESAAATLPAKNETPEVTKAEETKTEEPAAPPASEQETADATPEKEEPTAAPAEPE
APAPETEKAEEVEKIEKTEEPAPEADQTTPEEKPAEPEPVAEEEPKHETKETETEAPAAP
AEGEKPAEEEPITEAAETATTEVPVEKTEE
>AAC02632.1 Allergen cherry-allergen PRUA1 [Prunus avium]
MGVFTYESEFTSEIPPPRLFKAFLVDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIKSTSH
YHTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN
>BAA08246.1 Allergen Cha o 1; pectate lyase [Chamaecyparis obtusa]
MASCTLLAVLVFLCAIVSCFSDNPIDSCWRGDANWDQNRMKLADCAVGFSSAMGGKGA
FYTVTSSDDDPVNPAPGTLRYGATRERSLWIIFSKNLNKLNMPLYIAGNKTIDGRGAEV
HIGNGGPCLFMRTVSHVILHGLNIHGCVS VSGNVLISEASGVVPVHAQDGD AITMRNVT
DVWIDHNSLSDSSDGLVDVTLASTGVTISNHHFFNHHKVMLLGHSDIYSDDKSMKVTVAF
NQFGPNAGQRMPRARYGLIHVANNYDPWSIYAIGSSNPTILSEGNSFTAPNDSKKEV
TRRVGCEPSTCANWVWRSTQDSFNNGAYFVSSGKNEG T NIYNNNEAFKVENGSAAPQLT
KNAGVLTCILSKPCS
>AAB09632.1 Allergen Per a 3; hemocyanin / arylphorin [Periplaneta americana]
DIGDHYDIEANIGHYKYPHVVKNFISYKGLLPRGEPFSVYVEKHREQAIKLFELFFAA
NDYDTFYKTACWARDRVNEGFMFYALTVAAFHREDTKDLVLP PPYE VNPYLFVEDDVIQQ
AYKYWTKESGTDKHVEHVIPVNFTARSQEDLVAYFREDVDLNAFNMYFRYIYPSWFNTTL
YGKSFDRRGEQFYTYHQIYARYFLERLSNSLPDVKPFQYSKPLKTGYNPHLR YHNGEEM
PARPSNMYPTNFDLFYVSDIKNYERRVEKAIDFGYAFDEHRTPYSLYHDQHGM DYLGQMI
EGTRNSPHQYFYGSVFHFYRLLVGHVVDPYHKNGLAPSALEHPQTALRDPAFYQLWKRID
HIVQKYKNRLPRYTYDELSFPGVKIENV DVGKLYTYFEHFEHSLGNAMYLGKLEDYMKAS
IRARHYRLNHKPFTYNI EVSSDKAQDVYVRIFLGP KYDSLGHCELDERRHYFVEMDRFV
HKVEAGKTVIERKSHDSSISDSDSYRNLFKKVS DALQEKDQYYIDKSHKYCGYPENLL
LPKGGKGGQTFTFYVIVTPYVKQDEHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPFDRK
IHDYDFYTPNMYFKDVVIFHKKYDEVHDVTH
>CAA65122.1 Allergen Par j 2; lipid transfer protein (LTP) type 1 [Parietaria judaica]
MRTVSMAALVVIAAALAWTSSAELASAPAPGEGPCGKVVHHIMPCLKFVKGEEKEPSKSC
CSGTKKLSEEVKTTEQKREACKCIVAATKGISGIKNELVAEVPK KCGITTTLP PITADFD
CSKIESTIFRGYY
>CAA65123.1 Allergen Par j 1; lipid transfer protein (LTP) type 1 [Parietaria judaica]
MRTVSAPSAVALVVIVAAGLAWTSLASVAPPAPAGSEETCGTVVRALMPCLPFVQGKEK

EPKGGCCSGAKRLDGETKTGLQRVHACECIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLP
PIDVNMDCKTLGVVPRQPQLPVSRLHGPVTGPSDBAHKARLERPQIRVPPPPEKA

>CAB02155.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAB02156.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAB02157.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAB02158.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
GGLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAB02159.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
EGLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAB02160.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAB02161.1 Allergen pollen allergen Bet v 1 [Betula pendula]

MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMRETLLRAVESYLLAHS DAYN

>CAB02206.1 Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHA KGDHEVN AEMK GAKEMA EKLLRAVESYLLAHTDEYN

>CAB02207.1 Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDNLEKVSHELKIVAAPGGGSIVKISSK
FHA KGDHEVN AEMK GAKEMA EKLLRAVESYLLAHTDEYN

>CAB02208.1 Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHA KGDHEVN AEMK GAKEMA EKLLRAVESYLLAHTDEYN

>CAB02209.1 Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHA KGDHEVN AEMK GAKEMA EKLLRAVESYLLAHTAEYN

>CAB02213.1 Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKFSYTVIEGDVLGDKLEKVSLELKIVAAPGGGSILKISGK
FHA KGDHEVN AEMK GAKEMA EKLLRAVESYLLAHTAEYN

>CAB02215.1 Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNYEAETPSVMPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKFSYTVIEGDVLGDKLEKVSLELTIVAAPGGGSILKISGK
FHA KGDHEVN AEMK GAKEMA EKLLRAVESYLLAHTAEYN

>CAB02216.1 Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNVEAETTSVIPAAARLFKAFILDGNKLIKPVSPQAVSSVENVEGNNGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKYSYTVIEGGFVGDKVEKICNEIKIVAAPDGGSSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>CAB02217.1 Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNVEAETTSVIPAAARLFKAFILDGNLIPKVAPQAVSSVENVEGNNGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKYSYTVIEGGPVGDKVEKICNEIKIVAAPDGGSSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>AAB63099.1 Allergen Sola t 3; cysteine protease inhibitor [Solanum tuberosum]
TCHDDDNLVLPEVYDQDGNPLRIGERYIKNPLLGAGAVYLDNIGNLQCPNAV LQHMSIP
QFLGKGTVPVVFIRKSESDYGDVVRLMTAVYIKFFVKTTLKCVDET VWKVNNEQLVVTGGN
VGNENDIFKIKKTDLVIRGMKNVYKLLHCPSHLECKNIGSNFKNGYPRLVTVNDEKDFIP
FVFIKA

>AAC48691.1 Putative Equ c1 [Equus caballus]
MKLLLLCLGLILVCAQQEENSVAIRNFDISKISGEWYSIFLASDVKEKIEENGSMRVFV
DVIRALDNSSLYAEYQTKVNGECTEFPMVFDKTEEDGVYSLNYDGYNVFRISEFENDEHI
ILYLVNFDKDRPFQLEFYAREPDVSPEIKEEFVKIVQKRGIVKENIIDLTKIDRCFQLR
GNGVAQA

>AAB62731.1 Allergen Per a 3; hemocyanin / arylphorin [Periplaneta americana]
LNAFNMYFRYIYPTWFNTTLYGKTFDRRGEQFYTYHQIYARYFLERLSNSLPDVKPFQY
SKPLKTGYNPHLR YQNGEEMPARPSNMYPTNIDLFYVSDIKNYESRVEKAIDFADFDEHR
TPYSLYHDQHGM DYLGQMIEGTSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALE
HHQTALRDP AFYQLWKRIDHIVQKYKNR LPRYTYDEL SFPGVKIENV DVGKLYTYFEHFE
HSLGNAMYLGKLEDVLKANIRARHYRLNHKPFYTYNIEVSSDKAQDVYVRIFLGPKYDSL
HECELDERRHYFVEMDRFVHKVEAGKT VIERKSHDSSIISSDSDSYRNLFKKVS DALEGG
DQYYIDNSHKYCGYPENLLL PKGKGGQTFTFYVIVTPYVKQDEHDLESYHYKAFTYCGV
GHGRKYPDDKPLGFPDRKIHDYDFYTPNMYFKDVVIFHKKYDEVHNETN

>AAB63595.1 Allergen Per a 3; hemocyanin / arylphorin [Periplaneta americana]
EMPARPSNMYPTNIDLFYVSDIKNYESRVEKAIDFGYAFDEHRTPYSLYHDQHGM DYLGQ
MIEGTSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALEHHQTALRDP AFYQLWKR
IDHIVQKYKNR LPRYTYDEL SFPGVKIENV DVGKLYTYFEHFEHSLGNAMYIGKLEDLLK
ANIRASHYRLNHKPFYTYNIEVSSDKAQDVYVRIFLGPKYDSL GHECELDERRHYFVEMDR
FVHKVEAGKT VIERKSHDSSIISSDSDSYRNL YKKVADALEEKDQYYIDKSHKYCNYPEN
LLL PKGKGGQTFTFYVIVTPYVKQE QHDFEPYHYKA FS YCGVGHGRKYPDDKPLGFPD
RKIHDYDFYTPNMYFKDVVIFHKKYDEVHEVTH

>2118249A Putative allergen Lep d 1.01 [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRGEKMTLEAKFAANQ
DTAKVTIKVLAKVAGTTIQVPGLETDGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAE LIGDHGVMACGTVHGVQE

>2118249B Putative allergen Lep d 1.02 [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETDGCKVLKCPVKKGEALDFNYGMTIPAITPKIKADV
TAE LVGDHGVMACGTI HGVQE

>2118271A Allergen allergen PhI p I [Phleum pratense]
MASSSVLLVVALFAVFLGSAHGIPKVP PGNITATYGDKWLD AKSTWYGKPTAAGPKDN
GGACGYKDV DVPFSGMTGCGNTPIFKSGRGC GSCFEIKCTKPEACSGEPVVHITDDNE
EPIAA YHFDLSGIAFGSMAKKGDEQKLR SAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFSGDGDVVAVDIKEKGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGG
TKARAKDVIPEGWKADTAYESK

>2206305A Putative major allergen Myr p II [Myrmecia pilosula]
MKLSCLLLTLAIFVLTIVHAPNVEAKALADPESDAVGFADAVGGADPIDWKKVDWKKVS
KKTCKVMLKACKFLG

>2209273A Putative Zm13 [Zea mays]
MASVPAPATTTAAVILCLCVLSCAAADDPNLPDYVIQGRVYCDTCRAGFVTNVTEYIAG

AKVRLECKHFGTGKLER AIDGVT DATGT YTI ELKDSHEEDICQVVLVASPRKDCDEVQAL
RDRAGVLLTRNVGISDSL RPANPLGYFKDVPLPVCAALLKQLDSDDDDDDQ
>1ESF_B Allergen Chain B, Staphylococcal Enterotoxin A [Staphylococcus aureus]
SEKSEEINEKDLRKKSELQGTALGNLKIYYNEKAKTENKESHQFLQHTILFKGFFTD
HSWYNDLLVDFDSKDIVDKYKGGKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT
EEKKVPINLWLDGKQNTVPLETVKTNKKNVTVQELDLQARRYLQEKYNLYNSDVF DGKVQ
RGLIVFHTSTEPSVNYDLFGAQQGQYSNTLLRIYRDNKTINSENMHIDIYLYTS
>AAB60779.1 Allergen Asp f 6; manganese superoxide dismutase [Aspergillus fumigatus]
GTSP IQTPINTMSQQYTL PPLPYPYDALQPYISQQIMELHHKHHQTYVNGLNAALEAQK
KAAEATDVPKLVSVQQAIFNGGGHINHSFLWKNLAPEKSGGGKIDQAPVLKAAIEQRWG
SFDKFKDAFN TLLGIQGS GWGWL VTDGPKGKLDITTT HDQDPVTGAAPVFGVDMWEHAY
YLQYLNDKASYAKGIWNVINWAEAENRYIAGDKGGHPFMKL
>BAA13604.1 Allergen Dau c 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKGDGGAGTVRIITLPE
GSPITSMTVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVPTADGG SITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN
>CAB05371.1 Allergen major allergen Phl p 5 [Phleum pratense]
AVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLI EDINVGFKAAVAAAAS
VPAGDKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAV GATPEAKFDSFVASLT
EALRVIAGALEVHAVKPVTEEPGM AKIPAGELQIIDKIDAAFVAATAAATAPADDKFTV
FEAFNKAIKESTGGAYDTYKCI PSLEAAVKQAY AATVAAAPQVKYAVFEAALTKAITAM
SEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV
>CAB05372.1 Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSK GALTSKLEAAYKLA YKTSEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPA AEEVKVIPAGELQFIEKVDSALKVAATAANAAAANDKFTVF
EAAFNHAIKASTGGAYESYKFI PALEAAVKQAY AATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV
>AAB37403.1 Allergen Sec c 20; gamma-70 secalin / partial [Secale cereale]
NMQVNPSGQVQWPQQQPFQPPQQ
>P02222.2 Allergen Chi t 3; hemoglobin CTT IIB [Chironomus thummi thummi]
MKFLVLALCIAAAVAAPLSADEASLVRG SWAQVKHSEVDILYIFKANPDIMAKFPQFAG
KDLETLKGTGQFATHAGRIVGFVSEIVALMGNSANMPAMETLIKDMA ANHKARGIPKAQF
NEFRASLVSYLQSKVSWNDSLGAAWTQGLDNVFNMMFSYL
>P02223.2 Allergen Chi t 3; hemoglobin CTT IX [Chironomus thummi thummi]
MKFFIVLALCIVGAIADPVSSDQAN AIRASWAGVKHNEVDILAAVFS DHPDIQARFPQFA
GKDLASIKDTGAFATHAGRIVGFISEIVALVGNESNAPAMATLINELSTSHHNRGITKGG
FNEFRSSLVSYLSSHASWNDATADAWTHGLDNIFGMIFAHL
>P80198.1 Allergen Hor v 20; gamma-hordein-3 [Hordeum vulgare]
ITTTT MQFNPSGLELERPQQLF PQWQPLPQQPPFLQQEPEQPYPQQQPLPQQQPFQPPQQP
LPHQHQPQQLPQQQFPQQMPLQPQQQFPQQMPLQPQQQFPQQK PFGQYQQPLTQQPY
PQQQPLAQQQPSIEEQHQLNLC KEFLLQQCTLDEKVPLLQS VISFLRPHISQQNSCQLKR
QQCCQQLANINEQSRCPAIQTIVHAI VMQQQVQQQVGHGFVQSQLQQLGQGMPIQLQQQP
GQAFVLPQQQAQFKVVGSLVIQTL PMLCNVHVPPYCS PFGSMATGSGGQ
>P53357.1 Allergen Dol m 1; phospholipase A1B [Dolichovespula maculata]
GILPECKLVPEEISFVLSTREN RDGVYLT LQKLKNGKMFKN SDSLSSKKVPFLIHGFISSA
TNKNYADMTRALLDKDDIMVISIDWRDGACSN EFALLKFIGYPKAVENTRAVGKYIADFS
KILIQKYKVLLENIRLIGHSLGAQIAGFAGKEFQRFKLGKYPEIIGLDPAGPSFKKKDCP
ERICETDAH YVQILHTSSNLGTER TLGTVD FYINDGSNQP GCTYIIGETCSHTRAVKYLT
ECIRRECLIGVPQSKNPQPVSKCTRNECVGLNAKEYPKKGSFYVPVEAKAPFCNNNG
KII
>P51528.1 Allergen Phospholipase A1 (Allergen Ves m 1) (Ves m I) [Vespula maculifrons]
GPKCPFNSDTVSI IETREN RNRDLYTLQTLQNHPEFKKTITRPVVFITHGFTSSASEK
NFINLAKALVDKDNMVISIDWQTA ACTNEY PGLKYAYYPTAASNTRLVGQYIATITQKL

VKDYKISMANIRLIGHSLGAHVSGFAGKRVQELKLGKYSEIIGLDPARPSFDSNHC SERL
CETDAEYVQIIHTSNYLGTEKILGTVD FYMNN GKNNPGCGRFFSEVCSHTRAVIYMAECI
KHECCLIGIPRSKSSQPISRCTKQECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII
>AAB41308.1 Allergen Jug r 1; 2S albumin [Juglans regia]
AALLVALLFVANAAAFRTTITTEMEIDEDIDNPRRRGEGCREQIQRQQNLNHCQYYLRQQS
RSGGYDEDNQRQHFRQCCQQLSQMDEQCQCEGLRQV VRRQQQQQLRGEEMEEMVQSARD
LPNECGISSQRCEIRRSWF
>AAB42069.1 Allergen Sola l 3; lipid transfer protein (LTP) type 1 [Solanum lycopersicum]
MEMFGKIACFV VFCMVV VAPHAESLSCGEVTSGLAPCLPYLEGRGPLGGCCGGVKLLGA
AKTPEDRKTACTCLKSAANSIKGIDTGKAAGLPGVCGVNIPYKISPSTDCSTVQ
>AAB42200.1 Putative Dac gIII allergen [Dactylis glomerata]
VKVTFKVEKGS DPKKLVLDIKYTRPGDTLAEVELRQH GSEWEPLTKKGNLWEVKSSKPL
TGFNF RFMSKGGMRNVFDEVIPTAFKIGTTYTPEE
>AAB46819.1 Allergen Par o 1; lipid transfer protein (LTP) type 1 [Parietaria officinalis]
ATGKVVQDIMPPLL FVVQGKEKPSS
>AAB46820.1 Allergen Par o 1; lipid transfer protein (LTP) type 1 [Parietaria officinalis]
GPXGKVVHIIMPPLKFVKGESEEP
>AAB47552.1 Allergen major allergen Alt a 1 subunit [Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNLGF
NIKATNGGTLDFTC SAQADKLEDHKWYSCGENSFMDFSFDSDRSGLLLKQKVSD DITYVA
TATLPNYCRAGGNGPKDFVCQGVADAYITLVTLPKSS
>AAB48041.1 Allergen Alt a 5; ribosomal protein P2 [Alternaria alternata]
MKHLAA YLLLGLGGNTSPSAADVKA VLESV GIEADSDRLDKLISELEGKDINELIASGPE
KLASVPSGGAGGAAASG GAAAAGGSAEAEAAPEAAKEEEEKEESDEDMGFGLFD
>CAA62634.1 Allergen Cyn d 7; calcium-binding pollen/polcalcin [Cynodon dactylon]
KTMADTGDMEHIFKRFD TNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFID
FDEFISFCNANPGLMKDVAKVF
>CAA72273.1 Putative serpin [Triticum aestivum]
MATTLATDVRLSIAHQTRFALRLASTISSNPKSAASNAAFSPVSLHSALSLLAAGAGSAT
RDQLVATLGTGEVEGGHALAEQVVQFVLADASSAGGPRVAFANGVFVDASLLLKPSFQEL
AVCKYKAETQSVD FQTKAAEVTTQVNSWVEKVTSGRIKNILPSGSVDNTTKLVLANALYF
KGAWTDQFDSYGTKN DYFYLLDGSSVQTPFMSSMDDDQYISSSDGLKVLKLPYKQGGDNR
QFSMYILLPEAPGGLSSLAEKLSAEPDFLERHIPRQRVAIRQFKLPKFKISFGMEASDLL
KCLGLQLPFSDEAD FSEMVDSPMPQGLRVSSVFHQAFVEVNEQGTEAAASTAIKMVPQQA
RPPSVMDFIADHPFLFLLREDISGVVLFMGHVVNPLLSS
>AAB50883.1 Putative Myr p I=allergenic polypeptide {N-terminal} [Myrmecia pilosula]
MKLSCLLLTLAIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ
>AAC27724.1 Allergen Hev b 7; patatin-like protein [Hevea brasiliensis]
MATGSTTLTQGGKITVLSIDGGGIRGIIPGILASLESKLQDL DGPDARIADYFDIIAGT
STGGLITMLTAPNEDKKPMYQAKDIKDFYLENC PKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTSTDV IPTFDIKLLL PVIFPSSDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNP TLLAL THIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFS NASSDMVD SHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIA TEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK
>AAB58417.1 Allergen 30 kDa salivary gland allergen Aed a 3 [Aedes aegypti]
MKPLVKLFLFCLVGIVLSRPMPEDEEPVAEGGDEETD DDAGGDG GEEENE GEEHAGDED
AGGEDTGKEENTGHEDAGEEDAGEEDAGEEDA EKEEGEKEDAGDDAGSDDGEEDSTGGDE
GEANAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEYLR SALNNDLQSEVRVPVVEA
IGRIGDYSKIQGC FKS MGKDVKKVISEEEK KFKSCMSK KKKSEYQCS EDSFAAAKSKLSPI
TSKIKSCVSSKGR
>S65144 Putative pollen allergen group II (clone 42) - rape [Brassica napus]
MADATEKTEHDRFFKKFDANGDGTISSTELGDALKNLGSVTHDDIKRMMAEIDTDGDGFI

SYQEFSDFAKANRGLMKDVAKIF

>S65145 Putative pollen allergen group II (clone 44) - rape [Brassica napus]

MADATEKAEHDRFFKKFDANGDGTISSTELGDALKNLGSVTHDDIKRMMAEIDTDGDGFI

SYQEFSDFAKANRGLMKDVAKIF

>S65143 Putative pollen allergen group II (clone 4) - turnip (fragment) [Brassica rapa]

ETERAEHDRIFKKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYISYQ

EFSDFASANRGLMKDVAKIF

>CAA73782.1 Allergen Asp f 18; vacuolar serine protease [Aspergillus fumigatus]

MKGYSLSILPLLVAASPVVDSIHNGAAPILSSMNAKEVPDSYIVVFKKHVNAESAAAH
HSWVQDIHSAQNERVELRKRSLFGFGEEAYLGLKNTFDIAGSLVGYSGHFHEDVIEQVRK
HPDVEYIEKDSEVHTMEDPTVEKSAPWGLARISHRDSLSFGTFNKYL YASEGGEGVDAYT
IDTGINVDHVFEGRAQWGKTIPTDDEDADGNHGHGTHCSGTIAGRKYGVAKKANLYAVKV
LRSSSGTMSDVVAGVEWAVKSHLKKVKDAKDGGKIKGFKGSVANMSLGGGKSRTLEAAVN
AGVEAGLHFAVAAGNDNADACNYSAAAENPITVGASTLQDERAYFSNYGKCTDIFAPGL
NILSTWIGSKHAVNTISGTSMASPHIAGLLAYFVSLQPSKDSAFVDELTPKCLKKDIIA
IATQGALTDIPSDTPNLLAWNGGGSSNYTDIIASGGYKVNASVKDRFEGLVHKAEKLLTE
ELGAIYSEIHDAAVA

>CAA69670.1 Allergen Cyn d 12; profilin [Cynodon dactylon]

MSWQAYVDDHLMCEIEGHHLTSAIIGHDGTVWAQSAAFPAPFKPEEMANIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPAVIRGKKKSGGGVTVKKTGQALVIGIYDEPMTPGQCNMVE
KLGDYLIEQGM

>CAB03715.1 Allergen Dau c 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Daucus carota]

MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAATGAYKSVEVKGDGGAGTVRIITLPE
GSPITMTVRTDAVNKEALS YDSTVIDGDILLGFIESIETHMVVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>CAB03716.1 Allergen Dau c 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Daucus carota]

MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKGDGGAGTVRIITLPE
GSPITSMVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADEQNTALFKAIEAYLIAN

>CAB06416.1 Allergen major allergen Dau c 1/1 [Daucus carota]

MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVEVKGDGGAGTVRIITLPE
GSPITSMVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>CAB06417.1 Allergen Asp n 14; beta-xylosidase [Aspergillus niger]

MAHSMSRPVAATAAALLALALPQALAQANTS YVDYNIENPDL YPLCIETIPLSFPDCQN
GPLRSHLICDETATPYDRAASLISLFTLDELIA NTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGAYNWATSFPQPILTTAALNRTLHQIASIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAVYAYEYITGIQGPDPESNLKLAATAKHYAGYDIENW
HNHSRLGNDMNITQQDLSEYYTPQFHVAARDAKVQSVMCAYNAVNGVPACADSYFLQTL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAAEAILAGTDIDCGTTYQWHLNESI
AAGDLSRDDIEQGVIRLYTTLVQAGYFDSNTTKANNPYRDLSDVLETDAWNISYQAAT
QGIVLLKNSNVLPLETEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPY MISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAAQSADVIIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASAAGKKPLIVLQMGGGQVDSSSLKNNTNVSALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEFFPATDMNLRPEGDNPGQTYKWTGEAVYEFHGHLFYTTFA
ESSNTTTKEVKLNIQDILSQTHEDLASITQLPVLNFTANIRNTGKLES DYTAMVFANTS
DAGPAPYPKKWLVGWDRLEGEVVKVGETRELRVPVEVGSFARVNEDGDWVVPFTFELALNL
ERKVRVKVLEGEVVLKWPGE

>CAA73221.1 Allergen Tyr p 2; NCP2-like protein [Tyrophagus putrescentiae]

MKFLILFALVAVAAAGQVKFTDCGKKEIASVAVDGCEGLCVIHKSKPVHVIAEFTANQD
TCKIEVKVTGQLNGLEVPIPIGIETDGCKVLKCPKKGTKYTMNYSVNVPSVVPNIKT VVK
LLATGEHGV LACGAVNTDVKP

>AAC34736.1 Allergen Per a 1; nitrile-specifier protein [Periplaneta americana]

INEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETSPDFKAL

YDAIRSPEFQSIISTLNAMEQRSEHHQNLKRDGVDVDHFIQLIRALFGLSRAARNLQDDL
DFLHSLPISPRHRHGLPRQRRRSARVSAYLHADDFFHKIITTIEALPEFANFYNFLKEHG
LDVVYINEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETS
PDFKALYDAIRSPEFQSIISTLNAMEPEYQELLQNLKRDGVDVDHFIRVDQGTLRTLSSGQ
RNLQDDLNDFLALIPTDQILAIAMDYLANDAEVQELVAYLQSDDFHFKIITTIEALPEFAN
FYNFLKEHGLDVVDYINEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKA
LFQEKLETSPDFKALYDAIDLRSSRA

>AAC34737.1 Allergen Per a 1; nitrile-specifier protein [*Periplaneta americana*]

VGVDGLIDDIIAILPIDDLKALFQEKLETSLDFKAFYDAVRSPEFQSIVQTLNAMEPEYQD
LLQKLRDKGVDVDHYIELIRALFGLTREARNLQDDLNDFLALIPTDQILAIAMDYLANDA
EVQELVAYLQSDDFHFKIINTIEALPEFANFYNFLKKGHGLDVANYINEIHSIIGLPPFVPP
SRRHARRGVGINGLIDDVIAILPVDELKTLFQEKLETSPDFKALYDAIRSPEFQSIISTL
NAMEPEYQELLQNLKRDGVDVDHFIELIRSWFGLP

>CAB10766.1 Allergen Hol 1 5; ribonuclease [*Holcus lanatus*]

QKLEDVNASFKAAVAAAANKVPPADKYKTFLRAFTVLDRGSTEQSKAEETKMPELSSKL
DAYMAAFKASTGGTQEAKYDAFVTTLTEALRVIAGALEVHAVKPAATEEVPAKIPAGDLQ
VVDKIDASFKIAATAANAAPANDKFTVFETA FNKALKESTGGAYESYKFIPSLEAAVKQA
YASTVAAPEVKYAVFEAALTKAITAMSQAQKVAQPAATAATGAATVAAGAATTAAGGYKV

>CAB10765.1 Allergen Hol 1 5; ribonuclease [*Holcus lanatus*]

ADAGYTPAAPAAAGAGGKATTDEQKLEDVNAAGFKTAVAAAANVPPADKYKTFEAAFTAS
SKASIAAAATKAPGLIPQLNAATNTAYAAAQGATPEAKYDAFVTTLTEALRVIAGALEVH
AVKPAATEEVGAAKIPAGELQIVDKIDAAFRIAATAANAAPVNDKFTVFEGAFNKAIKEST
GGAYEAYKFIPSLETAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKEAKPVA
TGAATAAAGVAAGAATAAAGGYKV

>AAB66909.1 Allergen Ole e 6; unknown [*Olea europaea*]

DEAQFKECYDTCHEKCSDKNGFTFCCEMKCDTDCSVKDVKEKLENYKPKN

>AAB65434.1 Putative sol i 3 antigen [*Solenopsis invicta*]

MELIVSILWLAITAENLANTLATNYCNLQSCRRNNAIHTMCQYTSPTPGPMCLEYSNVGF
TDAEKDAIVNKHNELRQRVASGKEMRGTNGPQPPAVKMPNLTWDPELATIAQRWANQCTF
EHDACRNVERFAVGQNIATSSSGKNKSTPNEMILLWYNEVKDFDNRWISSFPSDDNILM
KVGHYTQIVWAKTTKIGCGRIMFKEPDNWTKHYLVCNYGPAGNVLGAPIYEIKK

>AAB72147.1 Allergen allergen Bla g 5 [*Blattella germanica*]

YKLTYPVKALGEPFIRFLSYGEKDFEDYRFQEGDWPNLKPSMPFGKTPVLEIDGKQTHQ
SVAISRYLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQPNLKALRE
KVLGLPAIKAWVAKRPPTDL

>AAB69424.1 Allergen tropomyosin [*Dermatophagoides pteronyssinus*]

MEAIKKKMAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRLQKKIQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHRISITDEERMEGLENQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLLEDELVHEKEKYKSISDELDTFAELTGY

>CAA50281.1 Allergen Major Pollen Allergen Phl p Va [*Phleum pratense*]

ADLGYGPATPAAPAGYTPATPAAPAGADAAGKATTEEQKLIKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAFAGLSGEPKGAEESSSKAALTSKLDAAVKLAYKTAEGATPE
AKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANA
APANDKFTVFEEAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPAATAATATAAVGAATGAATAATGGYKV

>CAA81609.1 Allergen pollen allergen PhlpVb [*Phleum pratense*]

AAAAVPRRGRGPRGSRYSYADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAA
AASVPAADKFKTFEAAFTSSSKAAAAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVA
SLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDK
FTVFEEAFNKAIKESTGGAYDTYKIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAI
TAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>CAA96545.1 Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YETETTSVIP AARLFKAFFLDGDN LFPKVAPQA ISSVENIEGNGGPGTIKKISFP
EGFPFRYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKEEQIKASKEMGETLLRAVESYLLAHS DAYN

>CAA70608.1 Allergen Phl p 12; profilin [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAA ILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKY MVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQC NMVVE
RLGDYLVEQGM

>CAA70609.1 Allergen Phl p 12; profilin [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAA IFGHDGTVWAQSADFPQFKPEEITGIMKDLDEPGHL
APTGMFVAAAKY MVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQC NMVVE
RLGDYLVEQGM

>CAA75141.1 Allergen Der p 10; tropomyosin [Dermatophagoides pteronyssinus]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERM RKMLEHR SITDEERMEGLENQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSISDELDTFAELTGY

>AAD13683.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVYTFENEY TSEIPPR LFKGFVLDADNLIPK IAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDS VDEANYSYAYTLIEGDALTD TIEKVS YETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLK GHPDAYN

>CAA73038.1 Allergen Ole e 1.0102 protein [Olea europaea]
MEDVPQPPVSQFHIQQGVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DVTFTFEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNP
LRFYKKEALPKCAQVYNKLGMYPPNM

>CAA73037.1 Allergen Ole e 1.0103 protein [Olea europaea]
MEDVPQPPVSQFHIQQGVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DVTFTFEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILSTVNGTTRTVNP
LGFYKKEALPKCAQVYNKLGMYPPNM

>CAA73036.1 Allergen Ole e 1 protein [Olea europaea]
MEDVPQPPVSQFHIQQGVYCDTCRSRFITELSEFIPGASVRLQCREKENG DITFTFEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNP
LGFYKKEALPKCAQVYNKLGMYPPNM

>CAA73035.1 Allergen Ole e 2; profilin [Olea europaea]
MSWQAYVDDHLMCDIEGHEDHRLTAAAI VGHGDSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKY MVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVT PGQC NM
VVERLGDYLVEQGM

>Q28050.1 Putative S100 calcium-binding protein A7 (Allergen Bos d 3) (Dander minor allergen BDA11) (Dermal allergen BDA11) (Calcium-binding protein in amniotic fluid 2) (CAAF2) [Bos taurus]
MSSSQLEQAITDLINLFHKYSGSDDTIEKEDLLRLMKDNFPNFLGACEKRGRDYLSNIFE
KQDKNKDRKIDFSEFLSLLADIATDYHNHSHGAQLCSGGNQ

>Q28133.1 Putative Allergen Bos d 2 precursor (Dander major allergen BDA20) (Dermal allergen BDA20) [Bos taurus]
MKA VFLTLLFGLVCTAQETPAEIDPSKIPGEWRIIYAAADNKDKIVEGGPLRNYYRRIEC
INDCESLSITFY LKDQGTCLLLTEVAKRQEGYVYVLEFYGTNTLEVIHVSENMLVTYVEN
YDGERITKMTEGLAKGTSFTPEELEKYQQLNSERGV PNENIENLIKTDNCPP

>P55958.1 Allergen Probable nonspecific lipid-transfer protein 2 precursor (LTP 2) (Major pollen allergen Par j 2.0101) (Par j II) (P2 protein) [Parietaria judaica]
MRTVSMAALV VIAAALAWTSSAEPAPAPAPGEEACGKVVQDIMPCLHFVKGEEKEPSKEC
CSGTKKLSEEVK TTEQKREACKCIVRATKGISGIKNELVAEVPKKCDIKTTLPITADFD
CSKIQSTIFRGYY

>Q41260.1 Putative Major pollen allergen Pha a 1 precursor (Pha a I) [Phalaris aquatica]
MMKMVCSSSSSLLVVAALLAVFVGS AQGIAKVPPGNITAEYGDKWLD AKSTWYGKPTG

AGPKDNGGACGYKDVDKAPFNMTGCGNTPIFKDGRGCGSCFELKCSKPESCSGEPITVH
ITDDNEEPIAPYHFDLSGHAFGSMAKKGEEENVRGAGELELQFRRVKCKYPDGTKPTFHV
EKGSNPNYLALLVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAIWRIDTPDKLTGPFTV
RYTTEGGTKAEFEDVIPEGWKADTHDASK

>P56164.1 Putative Major pollen allergen Pha a 5.1 precursor (Pha A 5) (Clone 28) [Phalaris aquatica]
MAVQKYTMALFLAVALVAGPAAPTPTPTPLPPPRARDKATLTSRSVEDINAASRRP
WWASVPPADKFKTFADHVLCPNADVTSAAATKAPQLKAKLDAA YRVAYEAAEGSTPEAKY
DAFIAALTEALRVIAGAFEVHAVKPAATEEVVADPVGELQIVDKIDAAFKAATAANSAPA
NDKFTVFEGAFNKAIKESTAGAYETYKFIPSLEAAVKQAYGATVARAPEVKYAVFEAGLT
KAITAMSEAQKVAKPPLSPQPPQVLPLAAGGAATVAAASDVRVCRSHGTLQDACLLRG
GCQPVVWRGGSHRARGGYKV

>P56165.1 Putative Major pollen allergen Pha a 5.2 precursor (Pha a 5) (Clone 14) [Phalaris aquatica]
MAVQKYTVLFLAVALVAGPAALYAGDGYAPATPAASATLATPATPAAS PQHAGTTEYHI
VRKAGLNEEKNAARQTDDEQKRSDEINCPDFNKS VHCRA DRLPVCSS TSAHSSKQDVAVM
LGYGSIQGFMSDDASVGSVSSEFHVIESAIEVITYIGEEVKVIPAGEVEVINKVKA AFT
AATAADEAPANDKFTV FVSSFNKAIKETTGGAYAGYKFIPTLEAAVKQAYAASSATAPEV
KYAVFETALKKAISAMSEAQKEAKPAAISAATTTISASTATPAAPPPQLGTATPAAVA
GGYKV

>P56166.1 Putative Major pollen allergen Pha a 5.3 precursor (Pha a 5) (Clone 29) [Phalaris aquatica]
MAVQKYTVLFLAMALVAGPAASYAADAGTPPTPATPAVPGAAAGKATTHEQKLIEDINA
AFKWWPASAPPADKYKTFETA FSKANIAGASTKGLDAAYSVVYNTAAGATPEAKYDSFVT
ALTEALRIMAGTLEVHAVKPAATEEEVPSAKILRANSRSSTRSSRFKIAATVATPLSHSTA
ANSAPANDKFTV FEGAFNKAIKERHGGPTETYKFIPSLEAAVKQAYGATVARAPEVKYAV
FEAGLT KAITAMSEAQKVAKPVRLSPQPPQVLPLAAGGAATVAAASDSRGGYKV

>P56167.1 Putative Major pollen allergen Pha a 5.4 (Pha a 5) (Clone 5) [Phalaris aquatica]
AKYDAFIAALTEALRVIAGAFEVHAVKPAATEEVPAKIPAGELQIVDKIDAAFKAATAA
NSAPANDKFTV FEGAFNKAIKERHGGAYETYKFIPSLEASRSKQAYGATVARAPEVKYAV
FEAGLT KAITAMSEAQKVAKPVRSV TAAAAGAATAAGGAATVAASRPTSAGGYKV

>P02221.2 Allergen Chi t 2; hemoglobin CTT-I/IA [Chironomus thummi thummi]
MKFLILALCVAAAMAGPSGDQIAAAKASWNTVKNNQVDILYAVFKANPDIQTAFS QFAGK
DLDSIKGTPDFSKHAGR VVGLFSEVMDLLGNDANTPTILAKAKDFGKSHKSRASPAQLDN
FRKSLVVYLKGATKWDSAVESSWAPVLDV FVSTLKNEL

>P02224.2 Allergen Chi t 3; hemoglobin CTT-VI [Chironomus thummi thummi]
MKFLVLALCIAAASA AVLTTTEQADLVKKTWSTVKFNEVDILYAVFKAYPDIMAKFPQFAG
KDLDSIKDSA AFATHATRIVSFLSEVISLAGSDANIPAIQNLAKELATSHKPRGVSKDQF
TEFR TALFTYLKAHINFDGPTETA WTLALDTTYAMLF SAMDS

>CAA05186.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIP AARLFKAFILDGDNLVKPVAPQAIS SVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNY SVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA05187.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIP AARLFKAFILDGDNLVKPVAPQAIS SVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNY SVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA05188.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIP AARLFKAFILDGDNLVKPVAPQAIS SVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNY SVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA05190.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIP AARLFKAFILDGDNLVKPVAPQAIS SVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNY SVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>AAB82404.1 Allergen Per a 1; nitrile-specifier protein [Periplaneta americana]
MKLPIMILAVLGVAFGKSLPNRN LQDDLNDFLALLPVDEITAI VMDYLANDAEVQEAVAY

LQGEEFHKIVFTVEGLQEFGNFVQFLEDHGLDAVGYINRLHSVFGWDPYVPSSKRKHTRR
GVGVDGLIDDIIAILPIDDLKALFQEKLETSPDFKAFYDAVRSPEFQSIVQTLNAMPEYQ
DLLQKLRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDLFLALIPTDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIINTIEALPEFANFYNFLKGHGLDVADYINEIHSIIGLPPFVP
PSRRHARRGVINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLRDKAVDVDHFIELIRSLFGLP

>AAC48794.1 Allergen Can f 1 [Canis lupus familiaris]

MKTLTLLTIGFSLIAILQAQDTPALGKDTVAVSGKWYLKAMTADQEVPEKPDSVTPMILKA
QKGGNLEAKITMLTNGQCQNITVVLHKTSEPGKYTAYEGQRVVFQSPVRDHYILYCEG
ELHGRQIRMAKLLGRDPEQSQEALDFREFSRAKGLNQEILELAQSETCSPGGQ

>AAC48795.1 Allergen Can f 2 [Canis lupus familiaris]

MQLLLLVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHFRVFI
HSMSAKDGNLHGDILIPQDGQCEKVSMTAFKTATSNTKFDLEYWGHNDLYLAEVDPKSYLI
LYMINQYNDTSLVAHLMVRDLRQQDFLPAPESVCEIDGLHKDQIVVLSDDDRCCQGRD

>AAB86960.1 Allergen Zea m 12; profilin [Zea mays]

MSWQAYVDEHLMCEIEGQHLSAAAIVGHGDSVWAQSESFPELKPEEVAGIHKDFDEPGTL
APTGLFVGGTKYMVIQGEVGVIRGKKGTTGGITIKKTGMSLIIGVYDEPMTPGQCNMVE
RLGDYLIEQGF

>AAC48287.1 Allergen Hom a 1; tropomyosin [Homarus americanus]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANIRAEEKTEEEIRITHKKMQQVENELDQV
QEQLSLANTKLEEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAEEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>AAC48288.1 Allergen Hom a 1; tropomyosin [Homarus americanus]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANIRAEEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANTQLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAEEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>AAB97141.1 Allergen Pru ar 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Prunus armeniaca]

MGVFTYETEFTSVIPPEKLFKAFILDADNLIPKVAPTAVKGTILEGDDGGVGTIKKVTFG
EGSQYAYVKHRVDGIDKDNLSYSYTLIEGDALSDVIENIAYDIKLVASPDGGSIVKTTSH
YHTKGDVEIKEEQVKAGKEKAAGLFLVEAYLLANPDAYN

>AAD13644.1 Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKDLQAKILYYYDELEGDAKKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPAC
KKIFAAHTSRRRR

>AAD13645.1 Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKDLQAKILHYYDELEGDAKKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKTKVEEALHAVTDEEKKQYIADFGPAC
KKIFGAHTSRRRR

>AAD13646.1 Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKDLQAKILHYYDELEGDAKKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPAC
KKIFGAHTSRRRR

>AAD13647.1 Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKELEAKILHYYDELEGDAKKEATEHL
KGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIADFGPAC
KKIYGVHTSRRRR

>AAD13649.1 Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDESLKMKKGGKAKKELEAKILHYYDEPEGDAKKEATEHL
KGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVIDEKKQYIADFGPAC
KKIFGVHTSRRRR

>AAD13650.1 Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYLSWLTEEQKEKLKEMKEAGQTKAEIQHEVMHYYDQLHGEEKQQATEKLV
GCKMLLKGIGEEKVVELRNVKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRRHHFTLESSLDTHLKWLSQEQQDELLKMKKDGGKAKKELEAKILHYYD
ELEGDAKKEATEHLKGGCPEILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTD
EEKKQYIADFGPACKKIYGVHTSRRRR

>AAD13651.1 Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMRYDQLHGEEKQQATEKLV
GCKMLLKGIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRRHHFTLESSLDTHLKWLSQEQQDELLKMKKDGGKAKKELEAKILHYYD
ELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTD
EEKKQYIADFGPACKKIYGVHTSRRRR

>AAD13652.1 Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMHYYDQLHGEEKQQATEKLV
GCKMLLKGIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRRHHFTLESSLDTHLKWLSQEQQDELLKMKKDGGKTKKELEAKILHYYD
ELEGDAKKEATEQLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTD
EEKKQYIADFGPACKKIYGVHTSRRRR

>AAB93837.1 Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMRYDQLHGEEKQQATEKLV
GCKMLLKGIGEEKVVELRNMKEAGADIQELRQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRR

>AAB93839.1 Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMHFYDQLHGEEKQQATEKLV
GCKMLLKGIVIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRR

>AAC67308.1 Putative 22.6 kDa tegumental antigen [*Schistosoma japonicum*]
MATTEYRLSLMEQFIRAFIEIDKDNNELIDKQELTKYCCQNQMDMKQIDPWIARFDTDKD
GKVSLEEFRCRGLKVVWEVRREKEELKKDKEGKVSTLPLDIQIIAATMSKAKQYNICCKF
KELLDKTSRTGDEVRAVANDLKAFLDSEYGRVWQVILTGSYWMNFSHEPFLSMQFKYSN
YVCLLWRTSS

>AAB95638.1 Allergen Asp f 3; peroxisomal protein [*Aspergillus fumigatus*]
MSGKAGDSFSDVVSFYPWSEDKGEITACGIPINYNASKEWADKKVILFALPGAFTPV
CSARHVPEYIEKLPEIRAKGVDVAVLAYNDAYVMSAWGKANQVTGDDILFLSDPDARFS
KSIGWADEEGRTKRYALVIDHGKITYAALEPAKNHLEFSSAETVLKHL

>AAB99797.1 allergenic protein [*Oryza sativa Japonica Group*]
MASNKVVFSVLLAVVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMYPLRVAGVGE
APLLGRARPRRAVPGDCCRQFPVDYSWCRCEAISHMLGGIYRELGAPDVGHPMSEVFR
GCRRTWSARRRAPGVLDIPNGGGGVCYWLARSGY

>CAA05978.1 Allergen prohevein [*Hevea brasiliensis*]
EQCGRQAGGKLCNNLCCSQWGWCGSTDEYCSPDHNCQSNCKDSGEGVGGGSASNVLATY
HLYNSQDHGWDLNAASAYCSTWDANKPYSWRSKYGWTAFCGPVGAHGQPCGKCLSVTNT
GTGAKATVRIVDQCSNGGLDLVNVFRQLD TDGKGYERGH LTVNYQFVDCGDSFNPLFSV
MKSSVIN

>Q25641.1 Allergen Allergen Cr-PI precursor (Allergen Per a 3) [*Periplaneta americana*]
MKTALVFAAVVAFVAARFPDHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVGI
PMTSKQTSATTVPSPGEAVHGVLEQGHARPRGEPFSVNYEKHREQAIMLYDLLYFANDYD
TFYKTACWARDRVNEGFMFYSFSIAVFHRDDMQGVMLPPPYEVYPYLFVDHDIHMAQKY
WMKNAGSGEHHSHVIPVNFNLTLDHLLAYFTSDVNLNAFNNTYRYYPSWYNTTLYGHN
IDRRGEQFYTYKQIYARYFLERLSNDLPDVPFYYSKPVKSAYNPNLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEKRVDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMIEGNM
DSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSLEHPETVLRDPVIFYQLWKRVDHLFQK
YKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDMSLDMAYVYVNNVDQISNVVDQLAV
RLNHKPFYNYIEVSSDKAQDVYVAVFLGPKYDYLGREYDLNDRRHYFVEMDRFPYHVGAG

KTVIERNSHDSNIIAPERDSYRTFYKKVQEA YEGKSQYYVDKGHNYCGYPENLLIPKGKK
GGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDF
YTPNMYFKDVIIHKKKYDEVG VQGH

>CAA11266.1 Putative rAsp f 9 [*Aspergillus fumigatus*]

KRSFILRSADMYFKYTA AALAAVLPLCSAQTWSKCNPLEKTCPPNKGLAASTYTADFTSA
SALDQWEVTAGKVPVGPQGA EFTVAKQGDAPTIDTDFYFFFGKAEVVMKAAPGTGVVSSI
VLESDDLDEVDWEVLGGD TTQVQTNFYFGKGD TTTTYDRGTYVPVATPQETFHTYTIDWTKD
AVTWSIDGAVVRTLTYNDAKGGTRFPQTPMRLRLG SWAGGDPSNPKGTIEWAGGLTDYSA
GPYTMVYKSVRIENANPAESY TYSDNSGSWQSIKFDGSVDISSSSSVTSSTTSTASSASS
TS

>CAA75803.1 Allergen Sola l 4; pathogenesis-related protein / PR-10 / Bet v 1-like protein [*Solanum lycopersicum*]

MGVNTYTYESTTTISPTRLF KALVLDFDNLVPKLLSQHVKNNETIEGDGGVGSIKQMN FV
EGGPIKYLKHKIHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGC VYKTTTE
YHTKGDHV VSEEEHNVGRRENHEYFQGC RSIPSRESFCLRLNIDEKESGLHVRNYACT

>AAC34312.1 Allergen Per a 1; nitrile-specifier protein [*Periplaneta americana*]

SIISTLNAMPEYQDLLQNL RDKGVDVDHYIELIRALFGLTRAARNLQDDLNDFLALIPTD
QILAIAMDYLANDAEVQELVA YLQSDDFHKIITTIEGLPEFANFYNFLKEHGLDVADFLN
EIHSIIGLPPFVPPSRRHARRG VGINGLIDDVAILPVDELKALFDEKLETSPDFKALYD
AIRSPEFQSIISTLNAMPEYQDLLQNL RDKGVDVDHFIELIRSLFGLP

>CAA73720.1 Allergen Mer a 1; profilin [*Mercurialis annua*]

MSWQTYVDDHLMCDIDGQ GQH LA AASIVGH DGS IWAQSASFPQLKPEEITGIMKDFDEPG
HLAPTGLYIAGTKYMVIQGESG AVIRGKKGSGGITIKKTGQALVFGIYE EPTVTPGQCNMV
VERLGDYLIEQGM

>CAA76556.1 Allergen Phl p6 allergen [*Phleum pratense*]

MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEE QKLIEDINASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSE
ALHIIAGTPEVHAVKPGA

>CAA76557.1 Allergen Phl p6 allergen [*Phleum pratense*]

MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEE QKLIEDVNASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSE
ALRIIAGTPEVHAVKPGA

>CAA76558.1 Allergen Phl p6 IgE binding fragment [*Phleum pratense*]

TEEQKLIEDVNASFRAAMATTANVPPADKYKTLEAAFTVSSKRNLADAVSKAPQLVPKLD
EVYNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA

>CAA04959.1 Allergen rAsp f 4 [*Aspergillus fumigatus*]

GEVGD TVYATINGVLVSWINEWSGEAKTSDAPV SQATPVSNVAAAAA AASTPEPSSSHSD
SSSSSGVSADWTNTPAEGEYCTDGFGRTEPSGSGIFYKGNV GKPWGSNIEVSPENAKK
YKHVAQFVGS DTPWTVVFWNKIGPDGGLTGWYGN SALT LHLEAGETKYVAFDENSQGA W
GAAKGDEL PKDQFGGYSCTWGEFDFDSKINHGWSGWDVSAIQ AENAHHEVQGMKICNHAG
ELCSIISHGLSKVIDAYTADLAGVDGIGGKVVPGPTRLVVNLDYKE

>CAA06305.1 Allergen Asp f1 allergen [*Aspergillus fumigatus*]

RLVYNQAKAESNSHHAPLS DGKTGSSYPHWFTNGYDGDGKLIKGRMPIKFGKADCDRPPK
HGKDG MGKDDHYLLEFPDFDGH DYKFD SKPKEDPGPARVIYTYPNKVFCGIV AHERGN
QGDLR

>CAA11755.1 Allergen Gly m 3; profilin [*Glycine max*]

MSWQAYVDDHLLCGIEGNHLTHAAIIGQDGSVWLQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RLGDYLIDQGY

>CAA11756.1 Allergen Gly m 3; profilin [*Glycine max*]

MSWQAYVDDHLLCDIEGNHLTHAAIIGQDGSVWAQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RPGDY LIDQGY

>AAC38996.1 Allergen Pan s 1; tropomyosin [*Panulirus stimpsoni*]

MKLEKDNAMDRADTLEQQNKEANIRAEKAE EEVHNLQKRMQQL ENDL DQVQESLLKANTQ

LEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAADSESRMRKVL
ENRSLSDAERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAEERAETGESKF
VELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLQ
KEVDRLEDELVNEKEYKSITDELDTQTFSELSGY

>CAA11041.1 Allergen Hev b 7; patatin-like protein [Hevea brasiliensis]

MATGSTTLTQGGKITVLSIDGGGIRGIIPGIIASLESKLQDLDPDARIADYFDIAGT
STGGLITMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVVIPTFDIKLLLPIVIFSSDDAKCNALKNARLADVCI
SAAPVLLPAHSFTTEDDKNIHTFELIDGGAAATNPTLLALHTRNEIIRQNPRFIGANL
TESKSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTRLLEKQESRINLDTGRLES
IPGASTNEAAITKFAKLLSEERKLRQLK

>BAA25899.1 Putative Bd 30K [Glycine max]

MGFLVLLLFSLGLSSSSSISTHRSILDLDTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNLNYIRDMNANRKSPPHSHRLGLNKFADITPQEFSSKYLQAPKDVSSQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGSGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESEGCYNGWHYQSFEWVLEHGGIATDDDYPRAKEGRCKANKIQDKVT
IDGYETLIMSDESTETEQAFLSAILEQPISVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVDYWIAKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>P81216.1 Allergen Equ c 2; Lipocalin [Equus caballus]

SQXPQSETDYSQLSGEWNTIYGAASNIXK

>P81217.1 Allergen Equ c 2; Lipocalin [Equus caballus]

XQDPQSETDYSQLSGEWNT

>AAC16525.1 Allergen major allergen Phl p 5 [Phleum pratense]

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSKAALTSKLDAAKLYKTAEGATPEAEYDAYVATL
SEALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIKPALEAAVKQAYAAATVATAPEVKYTVFETALKKAITATS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>AAC16526.1 Allergen major allergen Phl p 5 [Phleum pratense]

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSKAALTSKLDAAKLYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIKPALEAAVKQAYAAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>AAC16527.1 Allergen major allergen Phl p 5 [Phleum pratense]

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSKAALTSKLDAAKLYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIKPALEAAVKQAYAAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPAAATATATS AVGAATGATTAAAGGYKV

>AAC16528.1 Allergen major allergen Phl p 5 [Phleum pratense]

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSKAALTSKLDAAKLYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIKPALEAAVKQAYAAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>CAA75312.1 Allergen Hev b 8; profilin [Hevea brasiliensis]

MSWQTYVDERLMCEIEGNHLTAAAIIGQDGSVWAQSSNFPQFKSEEITAIMSDFDEPGTL
APTGLHLGGTKYMVIQGEAGAVIRGKKGPGGVTVRKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLLEQGM

>CAB01591.1 Allergen Pers a 1; chitinase (class 1)/ hevein-like protein [Persea americana]

MVYCTASLPLLLLLLVGLLAGEAFAEQCGRQAGGALCPGGLCCSQFGWCGSTSDYCGPTC

QSQCGGVTPSPGGGVASLISQSVFNQMLKHRNDAACQAKGFYTYNAFIAAANSFNGFASV
GDTATRKREIAAFLAQTSHETTGGWATAPDGPYAWGYCFLKEQGNPPDYCVPTAQWPCAP
GKKYYGRGPIQISYNYNYGPAGRAIGYDLINNPDAVATDPVISFKTALWFWMTPQSPKPS
CHNVITGRWTPSAADRAAGRLPGYGVITNIINGGIECGKGFNDKVADRIGFYKRYCDLLG
VSYGSNLDCYNQRSFGVSTNPLAASS

>AAC24001.1 Allergen Pyr c 5; isoflavon reductase / phenylcoumaran benzylic ether reductase [Pyrus communis]
MASKSQILFIGGTGYIGKFIVEASAKAGYPTYVLRVREASLSDPAKSKVIENFKALGVNFV
LGDLYDHESLVKAIKQVDVVISTVGHGQLADQGKIIAAIKEAGNVKRFFPSEFGNDVDRS
HAVEPAKSAFETKAKIRRAVEAEGIPYTYVSSNFFAGYFLPTLNQPGASSAPRDKVVILG
DGNPKAIFNKEDDIGTYTIRAVDDPRTLNVLYIRPPANTISFNELVSLWEKKIGKTLER
IYVPEEQLLKNIQEAAPLVNLVLSISHAVFVKGDHTNFEIEPSFGVEATALYDPVKYTTV
DEYLNQFV

>CAA54818.1 Allergen Lig v 1; Ole e 1 -like protein/ trypsin inhibitor [Ligustrum vulgare]
EDVPQPPVSQFYIQGQVYCDTCRARFITELSEFIPGAGVRLQCKDGENGKVTFTTEVGYTK
AEGLYNMLIERDHKNEFCEITLISSSRKDCDEIPTGWWKPSLKFVLTNTVNGTTRTINPL
GFLKKEVLPKCPQVFNKLGMYPPNM

>CAA54819.1 Allergen Lig v 1; Ole e 1 -like protein/ trypsin inhibitor [Ligustrum vulgare]
EDVPQPPVSQFYIQGQVYCDTCRARFITELSEFIPGAGVRLQCKDGENGKITFTEVGYTR
AEGLYSMLIERDHKNEFCEITLISSSRKDCDEIPIEGWVKPSLKFMLNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

>P81402.1 Allergen Nonspecific lipid-transfer protein 1 (LTP 1) (Major allergen Pru p 3) (Pru p 1) [Prunus persica]
ITCGQVSSALAPCIPYVRGGGAVPPACCNGIRNVNLLARTTPDRQAACNCLKQLSASVPG
VNPNNAAALPGKCGVHIPYKISASTNCATVK

>CAA11042.1 Allergen latex allergen [Hevea brasiliensis]
MATGSTTLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLDPDARIADYFDIIAGT
STGGLITMMLTAPNEDKKPIYQAKDIKDFYLENCPKIFPKESRDTYDPIHSIGPIYDGEY
LRELCNLLKDLTVKDTLTDVIIPAFDIKLLLPIVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAAANPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDHFHLSAL
FKSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>AAC25994.1 Allergen Phl p 5; ribonuclease [Phleum pratense]
MAVHQYTVLFLAVALVAGPAGSYAADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKAT
TEEQKLIKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAEGLSGEPKGAESS
SKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATVSEALRIIAGTLEVHAVKPAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAPAAAATATATAAVGAAT
GAATAATGGYKV

>AAC25995.1 Allergen Phl p 5; ribonuclease [Phleum pratense]
SVKRSNGSAEVHRGAVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIED
INVGFKA AVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGA
TPEAKFDSFVASLTEALRVIAGALEVHAVKPVTEEPGMKIPAGELQIIDKIDAAFKVA
TAAATAPADDKFTVFEEAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKY
AVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>AAC25997.1 Allergen Phl p 5; ribonuclease [Phleum pratense]
MAVQKYTVLFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVAVGATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEDPAWPKIPAGELQIIDKIDAAFKVAATAAAT
APADDKFTVFEEAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEA
ALTKAITAMSEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>AAC25998.1 Allergen Phl p 5; ribonuclease [Phleum pratense]
MAVQKYTVLFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVSYKAAVAVGATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEPGMKIPAGELQIIDKIDAAFKVAATAAAT

APADTVFEAAFNKAIKESTGGAYDTYKCIPLSLEAAVKQAYAATVAAAPQVKYAVFEAALT
KAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>CAA76831.1 Allergen pollen allergen Aln g 4 [*Alnus glutinosa*]

MADDHPQDQAEHERIFKCFDANGDGKISASELGDALKTLSVTPDEVKHMMAEIDTDGDG
FISFQEFTNFARANRGLVKDVAKIF

>CAA76841.1 Allergen Can f 4; serum albumin [*Canis familiaris*]

MDTYKSEIAHRYNDLGEHFRGLVLVAFSQYLQCCPFEDHVKLAKEVTEFAKACAAEESG
ANCDKSLHTLFGDKLCTVASLRDKYGDMADCCEKQEPDRNECFLAHKDDNPGFPPLVAPE
PDRLCAAFQDNEQLFLGKYLIEIARRHPYFYAPELLYYAQQYKGVFAECCQAADKAAACLG
PKTEALREKVLSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLT
KVHKECCHGDLLECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDEL
GDLPSLAADFVEDKEVCKNYQEAKDAFLGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEK
CCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFEKLGEYGFQNALLVRYTKKAPQVS
TPTLVEVSRKLGKVGTKCCKKPESERMSCADDFLSVVLNRLCVLHEKTPVSRVTKCCSE
SLVNRRCFSGLEVDETYVPKEFNAETFTFHADLCTLPEAEKQVKKQTALVELLKHKPKA
TDEQLKTVMGDFGAFVEKCCAAENKEGCFSEEGPKLVAAAQAALV

>CAA76847.1 Allergen bovine serum albumin [*Bos taurus*]

MKWVTFISLLLLFSSAYSRRGVRDRDTHKSEIAHRFKDLGEEHFKGLVLIASQYLQCCPF
DEHVKLVNELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCEKQEP
ERNECFLSHKDDSPDLPLKPDNLTLCDEFKADEKKFWGKYLIEIARRHPYFYAPELLYY
ANKYNGVFQECCQAEDKGACLLPKIETMREKVLTSARQLRCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKE
CCDKPLLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLEECCAADDPHACYSTVFDKCLKHLVDEPQNLIKQNCDFEK
LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESERMPCTEDYLSLIL
NRLCVLHEKTPVSEKVTCCTESLVNRRCFCSALTPDETYVPKAFDEKLFTFHADICTLP
DTEKQIKKQTALVELLKHKPKATEEQLKTVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQTALA

>AAD05375.1 Allergen Ole e 3; calcium-binding protein / polcalcin [*Olea europaea*]

MADDPQEVAEHERIFKRFDANGDGKISSSELGETLKTLSVTPPEIQRMMMAEIDTDGDGF
ISFEEFTVFARANRGLVKDVAKIF

>CAA08836.1 Allergen BDAI-1; Barley dimeric alpha-amylase inhibitor [*Hordeum vulgare* subsp. *vulgare*]

MGAMWMKSMMLVLLLCMLMVTMPMTGARSDNSGPWMWCDPEMCHKVSPLTRCRALVKLECV
GNRVPEDVLRDCCQEVANISNEWCRGDLGSMRLSVYAALGVGGGPEEVFPGCQKDVMLK
LVAGVPALCNVPIPNAAAGTRGVVYWSASTDT

>CAA76887.1 Allergen p7 protein [*Phleum pratense*]

MADDMERIFKRFDNTNGDGKISLSELTALRTLSTADEVQRMMMAEIDTDGDGFIDFNEF
ISFCNANPGLMKDVAKVF

>BAA32435.1 Allergen Mala f 2; peroxysomal membrane protein [*Malassezia furfur*]

MPGDPTATAKNEIPDTLMGYIPWTPELDSGEVCGIPTTFKTRDEWKGKKVVIVSIPGAY
TPICHQQHIPPLVKRVDELKAKGVDAVYVIASNDPFVMAAWGNFNNAKDKVVFATDIDLA
FSKALGATIDLSAKHFGERTARYALIIDDNKIVDFASDEGDTGKLQNASIDTILTKV

>BAA32436.1 Allergen Mala f 3; peroxysomal membrane protein [*Malassezia furfur*]

EIGSTIPNATFAVVPYSPELEDHKVCGMPTSFQSHERWKGKKVVIVAVPGAFTPTCTANH
VPPYVEKIQELKSKGVDEVVVISANDPFVLSAWGITEHAKDNLTFADVNCEFSKHFNAT
LDLSSKGMGLRTARYALIANDLKVEYFGIDEGEPKQSSAATVLSKL

>CAA75506.1 Allergen Hel a 2; profilin [*Helianthus annuus*]

MSWQAYVDEHLMCDIEGTGQHLTSAAILGLDGTVWAQSAKFPQFKPEEMKGIIEKFDEAG
TLAPTGMFIAGAKYMLVQGEPGA VIRGKKGAGGICIKKTGQAMIMGIYDEPVAPGQCNMV
VERLGDYLLLEQGM

>AAC36740.1 Allergen Ma l d 2; thaumatin-like protein (TLP) [*Malus domestica*]

MMKSQVAPRPTLAILFFFSGAHA AKITFTNCPNTVWPGTLTGDKPQLSLTGFELASKA
SRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIAA
NGGQDYDVSVDGFNLPMSPVAPQGGTGECKPSSCPANVNKVCAPLQVKAADGSVISCK

SACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSAYDDKNSTFTCSGGPDYV
ITFCP

>AAC61869.1 Putative tropomyosin [*Crassostrea virginica*]
RNRKVLNENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAEARLE
AAEAKVLELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRATEAER
TVSKLQKEVDRELEDELLAEKERYKAISDELDQTFAGELAGY

>AAC63045.1 Allergen Ara h 3; 11S globulin / legumin-like protein [*Arachis hypogaea*]
RQQPEENACQFQLNAQRPDNRIESEGGYIETWNPNNQEFECAGVALSRLVLRNALRRP
FYSNAPQEIFIQQGRGYFGLIFPGCPRHYYEPTQGRRSQSQRPPRRLQGEDQSQQQRDS
HQKVHRFDEGLIAVPTGVAFWLNDHDTDVVAVSLTDTNNDNQLDQFPRRFNLAGNTE
QEFRLYQQSRQSRRRSLPSPYSPQSQRQEEREFSPRGQHSRRERAGQEEENEGGNIF
SGFTPEFLEQAFQVDDRQIVQNLGETESEEEGAIVTVRGGRLILSPDRKRRADEEEEEYD
EDEYEDDEDRRRGRGRGRGNGIEETICTASAKKNIGRNRSPDIYNPQAGSLKTANDLN
LLILRWLGPSEYGNLYRNALFVAHYNTNAHSIIYRLRGRAHVQVVDSDNGNRVYDEELQE
GHVLLVVPQNFVAVAGKSQSENFYVAFKTDSPSIANLAGENSVIDNLPEEVVANSYGLQR
EQARQLKNNNPFKFFVPPSQSPRAVA

>CAA83015.1 Allergen Asp f 5; metalloprotease [*Aspergillus fumigatus*]
MRGLLLAGALALPASVFAHPAHQSYGLNRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPKQSYVEVATQHVKMIAPDATFRVDDHYVGDNGVAHVHFRQTANGLDIDNADFNVN
GKDGKVFYSYGNFSYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEK
ESYVFKGVSQTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNGIAQSN
PSGGPSYLNRYRPSSSSLFKYPYSVSSSPSSYIDASIIQLFYTANIYHDLTYTLGFTE
KAGNFYNTNGQGGLGNDYVILNAQDGSNTNANFATPPDGQPMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALESGGMGEGWSDFMATAIRLKPDKRST
YTMGEWASNRRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASMLYEVLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFKRGLGAGAKYSSRNRVVGSTEVPSGVC

>AAC82355.1 Allergen Hev b 3; small rubber particle protein [*Hevea brasiliensis*]
MAEEVEERLKYLDVRAAGVYAVDSFSTLYLAKDISGPLKPGVDTIENVVKTVPVTPVY
YIPLEAVKFDKTVDVSVTSLDGVVPPVIKQVSAQTYSVAQDAPRIVLDVASSVFNTGVQ
EGAKALYANLEPKAEQYAVITWRALNKLPLVPQVANVVPTAVYFSEKYNDVVRGTTEQG
YRVSSYLPLLPTEKITKVFGEAS

>CAA10140.1 Putative major group I allergen Hol 1 1 [*Holcus lanatus*]
MASSSLVLLVVALFAVFLGTAHGIKVPVPGPNITATYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVDPKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPESCSGEPVWHITDDNE
EPIAAYHDLDSGKAFGAMAKKGEEQKLRSALELELKFRRVKCEYKGTGVTFHVEKGSNP
NYLALLVKYVDGDGDVVAVDIKEKDKWIELKESWGAVWRVDTDPDKLTGPFTVRYTTEG
GTKVEAEDVIPEGWKADTAYESK

>CAA81613.1 Allergen pollen allergen Phl pI [*Phleum pratense*]
MASSSVLLVVALFAVFLGSAHGIPKVPVPGPNITATYGDKWLDKSTWYGKPTAAGPKDN
GGACGYKDVDPKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVWHITDDNE
EPIAAYHFDLSGIAFGSMKKGDEQKLRSALEVEIQFRRVKCKYPEGKVTTFHVEKGSNP
NYLALLVKFVAGDGDVVAVDIKEKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEG
GTKGEAKDVIPEGWKADTAYESK

>P81496.1 Putative Allergen C-C [*Triticum aestivum*]
SFREQCVGREITYECLNACA EYAVRQ

>O24170.1 Putative Profilin-2 (Pollen allergen Ole e 2) [*Olea europaea*]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIVGHDGSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNM
VVERLDGYLLEQGL

>O24171.1 Putative Profilin-3 (Pollen allergen Ole e 2) [*Olea europaea*]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIVGHDGSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNM

VAERLGDYLLLEQGL

>AAC82349.1 Allergen Eur m 2; NCP2-like protein [Euroglyphus maynei]
MYKILCLSLLVAAVAADQVDIKDCANHEIKKVMVPGCKGSEPCVIHRGTAFOLEAVFDAN
QNSNAAKIEIKATIDGVEIDVPGIDNNLCHFMKCPLVKGQEYDIKYTWNVPRIAPKSENV
VVTVKLLGDNGVLACAIATHAKIRD

>AAC82350.1 Allergen Eur m 2; NCP2-like protein [Euroglyphus maynei]
VAVAADQVDVKDCANHEIKKVMVPGCKGSEPCVIHRGTAFOLEAVFDANQNSNAAKIEI
KATIDGVEIDVPGIDNNLCHFMKCPLVKGQEYDIKYTWNVPRIAPKSENVVVTVKLLGDN
GVLACAIATHAKIRD

>AAC82351.1 Allergen Eur m 1; cysteine protease [Euroglyphus maynei]
MKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKTYATPEKEEVARKNFLESKYVESN
KGAINHLSLDFEKNQFLMNANAFEQLKTQFDLNAETYACSINSVSLPSELDLRLSLRT
VTPIRMQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDTIPRGIE
YIQQNGVVQEHYYPYVAREQSCHRPNQRYGLKNYQCISPPDSNKIRQALTQHTAVAVI
IGIKDLNAFRHYDGRITIMQHDNGYQPNYHAVNIVGYGNTQGVVDYWIVRNSWDTTWGDNGY
GYFAANINLMMIEQYPYVVML

>AAC82352.1 Allergen Eur m 1; cysteine protease [Euroglyphus maynei]
KHLSTIMKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKSYATPEKEEVARKNFLES
KYVESNKGAINHLSLDFEKNQFLMNANAFEQLKTQFDLNAETYACSINSVSLPSELD
LRLSLRTVTPIRNQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDT
IPRGIEYIQQNGVVQEHYYPYVAREQSCHRPNQRYGLKNYQCISPPDSNKIRQALTQHT
TAVAVIIGIKDLNAFRHYDGRITIMQHDNGYQPNYHAVNIVGYGNTQGVVDYWIVRNSWDTT
WGDNGYGYFAANINLMMIEQYPYVVIL

>CAA07318.1 Allergen pollen allergen Betv1, isoform at8 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVTPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA07319.1 Allergen pollen allergen Betv1, isoform at10 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVEGYLLAHSDAYN

>CAA07320.1 Allergen pollen allergen Betv1, isoform at14 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNN

>CAA07323.1 Allergen pollen allergen Betv1, isoform at37 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA07324.1 Allergen pollen allergen Betv1, isoform at42 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKLVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGETLLRAVESYLLAHSDAYN

>CAA07325.1 Allergen pollen allergen Betv1, isoform at45 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA07326.1 Allergen pollen allergen Betv1, isoform at50 [Betula pendula]
MGVFNYETETTSVIPAARLFRAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA07327.1 Allergen pollen allergen Betv1, isoform at59 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILEGDTLIPKVAPQAISVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA07328.1 Allergen pollen allergen Betv1, isoform at87 [Betula pendula]
MGVFNYESVIPAARLFKAFILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNN

>CAA07329.1 Allergen pollen allergen Betv1, isoform at5 [Betula pendula]
MGVFNYESVIPAARLFKAFILDGDNLPKVPAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKLVATPDGGSILEISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHSDAYN

>CAA07330.1 Allergen pollen allergen Betv1, isoform at7 [Betula pendula]
MGVFNYESVIPAARLFKAFILEGDNLPKVPAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA10345.1 Putative pollen allergen (group II) [Dactylis glomerata]
MSMASSSSSGLLAMAVLAALFAGAWCVPKVTFTVEKGSNEKHLAVLVKYEEDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEPLQGPFFRFLTEKGMKNVFDVVPEKYTIGATYAP
EE

>CAA65313.1 Allergen Tri a 37; alpha purothionin [Triticum aestivum]
MGSKGFKGVIVCLLILGLVLEQLQVEGKSCCRSTLGRNCYNLCRARGAQKLCAGVCRCKI
SSGLSCPFGPKLALESNSDEPDTIEYCNLGCRRSSVCDYMVNAAADDEEMKLYVENCADA
CVSFCNGDAGLPSLDAY

>AAC97369.1 Putative venom allergen Sol i 4.01 precursor [Solenopsis invicta]
MKTFLVSVCLLVFTQIIYALDIKEISIMNRILEKCIRTVPKRENDPINPLRNVNVWYCAF
TKRGIFTPKGVNTKQYINYCEKTAISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKGLELTVYGKKK

>AAC97370.1 Putative venom allergen Sol i 4.02 precursor [Solenopsis invicta]
MKTFLVSVCLLVFTQIIYALDIKEISIMNRILEKCIRTVPKRENDPINPLKKNVNVLYCAF
TKRGIFTPKGVNTKQYINYCEKTIISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKGLELTVYGKKK

>CAA10520.1 Allergen Poa p 1; beta expansin [Poa pratensis]
MASSSVLLVVALFAVFLGTAHGIKVPVPGPNITATYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVVKAPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPESCSGEPVLVHITDDNE
EPIAA YHFDLSGKAFGAMAKKGEEQKLSAGELELKFRRVKCEYPEGTVTFHVEKGSNP
NYLALLVKYVTGDGDVVAVDIKEKGKDKWIELKESWGSIWVDTDPDKLTGPFTVRYTTEG
GTKGEAEDVIPEGWKADTAYASK

>AAD09630.1 Putative napin-type 2S albumin 1 precursor [Glycine max]
MTKLILLIALLFIAHTCCASKWQQHQQESCREQLKGINLNPCEHIMEKIQAARRGEDGS
DEDHILIRTMPGRINYIRKKEGKEEEEEGHMQCCSEMSELKSPICQCKALQKIMDNQSE
QLEGKEKKQMERELMNLAIRCRLGPMIGCDLSSDD

>CAA09883.1 Allergen Mala s 5; unknown [Malassezia sympodialis]
MSATTGSQAPNTTFTYIPWAPELDSGKVCVGPQTFKAHDRWKGKKVVVVAIPGAFTPACH
QNHIPGFVEKINELKAKGVDEVVAVNDAFVMSGWGVTVGGKDQIVYACDNDLAFSKAL
GGTDLTSGGMGVRTARYAVVLDLKITVFGMDEGNMGAPEKSSVDAVLAQL

>CAA09884.1 Allergen Mala s 6; cyclophilin [Malassezia sympodialis]
MSNVFFDITKNGAPLGTIKFKLFDDVVPKTAANFRALCTGEKGFYAGSHFHRVIPDFML
QGGDFTAGNGTGGKSIYGAKFADENFQLKHNPGLLSMANAGPNTNGSQFFITTVVTSWL
DGKHVVFGVIDGMNVVKAIEAEGSGSGKPRSRIEIAKCGVC

>CAA09885.1 Allergen Mala s 7; unknown [Malassezia sympodialis]
AVSASPTPSKHNLYCYAQGKDLFEFHINDTVTKDVCKSLNSGKYHNMNNEKYCSVADYDV
KWFKERCQSHPTDVKTTKWIAGTDLKIEMDPKEPYELYCFNYTTFGNLPDAGAKELDDD
ATKKACSALSGKYQSDPKKSCRMDKDKDIDQFKEQCSQYQPSDRPPYGDWSAGTSLNVV
LNLKNA

>AAD03608.1 Putative pollen major allergen 1-1 [Juniperus ashei]
MASPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSTDDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHSLHIHCNTSVLGDVVLVSESIGVEPVHAQDGDAITMRNVT

NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHKVMMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESPSACANWVWRSTRDAFINGAYFVSSGKTEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

>BAA74451.1 Allergen Vig r 6; cytokinin specific binding protein / pathogenesis-related protein / PR-10 / Bet v 1-like protein [*Vigna radiata*]

MVKEFNTQTELSVRLEALWAVLSKDFITVVPKVLPHIVKDVQLIEGDGGVGTILIFNFLP
EVSPSYQREEITEFDESSHEIGLQVIEGGYLNQGLSYYKTTFKLSEIEEDKTLVNVKISY
DHDSIEEKVTPTKTSQSTLMYLRRLERYLSNGSA

>AAD10850.1 Allergen major IgE-binding protein Blo t 5 [*Blomia tropicalis*]

MKFAIVLIACFAASVLAQEHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQDEL
NENKSKELQEKIIRELDVVCAMIEGAQGALERELKRTDLNILERFNYEEAQTLISKILLKD
LKETEQQVKDIQTQ

>AAD13106.1 Allergen Asp n 14; beta-xylosidase [*Aspergillus niger*]

MAHSMSRPVAATAAALLALALPQALAQANTSVDYDYNVEANPDLYPLCIETIPLSFPDCQN
GPLRSHLICDESATPYDRAASLISLFTLDELIAANTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGSYNWATSFPQPILTTAALNRTLHQIASIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAVYAYEYITGIQGPDPDSNLKLAATAKHYAGYDIENW
HNHSRLGNDMNTQQDLSEYYPQFHVAARDAKVHSMCAYNVVDGVPACADSYFLQTL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAEAAILAGTDIDCGTTYQWHLNESI
TAGDLSRDDIEKGVIRLYTTLVQAGYFDSNTTKANNPYRDLTWSVDLETDAWNISYQAAT
QGIVLLKNSNNVPLPTEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAARSADVIIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASSAGSKPLIVLQMGGGQVDSSSLKNNTNVTALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEFFPATDMNLRPEGDNPGQTYKWYTGEAVYEFHGLFYTTFA
ESSSNTTTKEVKLNIQDILSQTHEELASITQLPVLNFTANIKNTGKLESDYTAMVFANTS
DAGPAPYPVKWLVGWDRLDGDKVGETREL RVPVEVGSFARVNEDGDWVLFPGTFELALNL
ERKVRVKVLEGEVVLKWPGE

>AAD13531.1 Allergen major allergen Bla g 1.02 [*Blattella germanica*]

NAIEFLNNIHDLLGIPHIPVTARKHRRRGVGITGLIDDIIAILPVDDLIALFQEKLETSP
EFKALYDAIRSPEFQSIVGTLEAMPEYQNLIQKLKDKGVDVDHIIELIHQIFNIVRDTRG
LPEDLQDFLALIPDQVLAIAADYLANDAEVKA AVEYLSDEFETIVVTVDLPEFKNFL
NFLQTNGLNAIEFLNNIHDLLGIPHIPVTGRKHLRRGVGITGLIDDIIAILPVDDLIALF
QEKLETSPFKALYDAIRSPEFQSIVETLKAMPEYQSLIQKLKDKGVDVDHIIELIHQIF
NIVRDTRGLPEDLQDFLALIPIDQILAIAADYLANDAEVQA AVEYLSDEFETIVVTVDS
LPEFKNFLNFLQTNGLNAIEFINNIHDLLGIPHIPATGRKHVRRGVGINGLIDDVAILP
VDELYALFQEKLESSPEFKALYDAIRSPEFQSIVQTLKAMPEYQDLIQRKDKGVDVDHF
IELIKKLFGLSH

>AAD13533.1 Allergen Per a 1; nitrile-specifier protein [*Periplaneta americana*]

EFQSIISTLNAMPEYQELLQNLRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDFLALI
PTDQILAIAMDYLANDAEVQELVAYLQSDDFHKIITIEGLPEFANFYNFLKEHGLDVAD
FLNEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVAILPVDELKALFQEKLETSPDFKA
LYDAIRSPEFQSIISTLNAMPEYQDLLQNLRDKGVDVDHFIELIRSLFGLP

>BAA74953.1 Allergen Gly m 6; glycinin/11S globulin [*Glycine max*]

MGKPFSLSSLLCLLLSSACFAISSSKLNECQLNNLNALEPDHRVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSPYSPYPRMIIIAQGGKALGVAIPGCPETFEEPEQSN
RRGSRSQKQQLQDSHQKIRHFNEGDVLPVPPGVVYWTYNTGDEPVVAISLLDTSNFNQ
DQTPRVFYLAGNPDIETMQQQQQKSHGGRKQGQHQEEEEEGGSVLSGFSKHFLAQ
SFNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQDEDEDEDEDEDEDEDEDEDE
RRPSHGKREDE
PRRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTPAL
RQFQLSAQYVVLKNGIYSPHWNLNANSVIYVTRGQKVRVNCQGNVFDGELRRGQLL
VVPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDVFRAPSEVLAHSYNLRQSQVSELK
YEGNWGPLVNPESQQGSPRVKVA

>CAA04823.1 Allergen pollen allergen, Betv1 [Betula pendula]
GVFNYEIETTSVIPAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISHKY
HTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAA04826.1 Allergen pollen allergen, Betv1 [Betula pendula]
GVFNYESETTSVIPAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFPE
GSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSILKISNKY
HTKGDHEMKAHEMKAIKEKGETLLKAVESYLLAHS DAYN

>CAA04827.1 Allergen pollen allergen, Betv1 [Betula pendula]
GVFNYTEATSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GIPFKYVKDRVDEVDHANFKYSYSLIEGGPVGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>CAA04828.1 Allergen pollen allergen, Betv1 [Betula pendula]
GVFNYESETTSVIPAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFPE
GSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSILKISNKY
HTKGDHEMKAHEMKAIKEKGETLLRAVESYLLAHS DAYN

>CAA04829.1 Allergen pollen allergen, Betv1 [Betula pendula]
GVFNYEIGATSVIPAARLFKAFILVGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNKY
HTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>AAD19606.1 Allergen Per a 7; tropomyosin [Periplaneta americana]
MDAIKKKMAMKLEKDNAMDRALLCEQQARDANLRAEKAEEEEARSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFCDDLDMTFTELIGN

>AAD20386.1 Allergen pollen allergen Lol p VA precursor; major allergen [Lolium perenne]
MAVQKYTVLFLAVALVAGPAASYAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKA AVAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTA YDVAY
KAAEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFIPSLEAAVKQAYAATVAA
APEVKYAVFEAALTKAITAMTQAQKAGKPAAAATGAATVATGAATAAAGAATAAAGGYK
A

>CAB38044.1 Allergen Hel as 13; tropomyosin [Helix aspersa]
MDAIKKKMLAMKMEKENALDRAEQVEQKLRDCECNKNKVEEDLNNLQKKFAILENDFDSI
NEQLLDANTKLEASEKKNAEIESETAGLQRRRIQLLEEDLERSEERLQSATEKLEEASKAA
DESERGRKVLESRLADDERLDGLEAQLKEAKYIAEDAERKFDEAARKLAITEVDLERAE
ARLEAAEAKILELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAS
EAERTVSKLQKEVDRLEDELLAEKERYKATSDELDSTFAELAGY

>CAB38086.1 Allergen Per a 7; tropomyosin [Periplaneta americana]
MDAIKKKMAMKLEKDNAMDCALLCEQQARDANLRAEKAEEEEARSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAV
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFCDDLDMTFTELAGY

>CAB39376.1 Putative Cop c1 allergen [Coprinus comatus]
RFLPSSSHLNPQHLPWL VHPAPVLLLPVLPQLKPV AHPLLLLPLDTTTLHMPLLLQLQL
PPLLSQGNPACSPKWLQLLVP

>AAD13530.2 Allergen Bla g 1; microvilli-like protein with unknown function [Blattella germanica]
NLLEKLREKGVVDVKIHELIRALFGLTLNAKASRNLDQDLQDFLALIPVDQIIAIATDYL
ANDAEVQAAVAYLQSDEFETIVVALDALPELQNFLNFLEANGLNAIDFLNGIHDLLGIPH
IPVSGRKYHIRRGVGITGLIDDLAILPIEDLKALFNEKLETSPDFLALYNAIRSPEFQS
IVQTLNAMPEYQNLLQKLREKGVVDVKIHELIRALFGLTLNGKASRNLDQDLQDFLALIP
VDQIIAIATDYLANDAEVQAAVAYLQSDEFETIVVTLDALPELQNFLNFLEANGLNAIDF

LNGIHDLLGIPHIPVSGRKYHIRRGVGITGLIDDVLAILPLDDLKALFNEKLETSPDFLA
LYNAIKSPEFQSIVQTLNAMPEYQNLLEKLREKGVVDVKIIELRALFGLTH

>AAD25926.1 Allergen Pen c 1; alkaline serine protease [Penicillium citrinum]

MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFNTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDESTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSYTYDSTAGEGVVVFYGVDTGIDISHSDFGGRAKWGTNVVDN
DNTDGNHGHGHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNMSLGGFEFSKAVNDAAANVVKSGIFLSVAAGNEAENASNSSPASAAEVCTIA
ASTSTDGSASFTNFGSVVDLYAPGQSITAAYPGGGSKTSGTSMAAPHVAGVAAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>AAD25927.1 Putative major allergenic protein Mal f4 [Malassezia furfur]

MFARAALRNSVRAPASARYFSQTAANRKYAVLGGASGGIGQPLSLLMKNPKVTELRLYD
IRLAPGVAADLSHINTPAVTSGYAQDDLEGAVDGAEIVLIPAGMPRKPGMTRDDLNSNA
SIVRDLAKVVAKVAPKAYIGVISNPVNSTVPIVAEVFKKAGVYDPKRLFGVTTLDTTRAA
TFLSGIAGSDPQTTNVPVIGHSGVTIVPLISQAAQGDQVQAGEQYDKLVHRIQFGGDEV
VKAKDGAGSATLSMAYAAA VFTTEGLLKGLDGEAVTQCTFVESPLFKDQVDFEFASPVEFGP
EGVKNIPALPKLTAEQKLLDACLPDLAKNIKKGVAAWAENP

>AAD25995.1 Putative alkaline serine protease Pen c2 [Penicillium citrinum]

MKGFLGLALLPLTAASPVSVEIHNGAAPIISSMNSQEIPDSYIVVFKKHVDTSAAAAH
HSWVQDIHSAVNGRMELKKRGLFGFDTD AFLGVKHSFHVAGSLMGYAGHFHEDVIEQVRR
HPDVDYIEKDSEVHHFDSVVEKNAPWGLARISHRDSLFGTFNKYLYAEDGGEGVDA YV
IDTGTNTDHFVDFEGRASWGKTIPQGDDEDVDGNGHGHGTHCSGTIAGKKYGVAKKANVYAVKV
LRSNGSGTMSDVVKGVWEAAEAIKKSKAAKDGGKAKGFKGSVANMSLGGGSSRTLDAVN
AAVDAGMHFAVAAGNDNADACNYSAAA EKA VTVGASTLADERAYFSNYGKCTDIFAPGL
NILSTWIGSKYAVNTISGTSMASPHIAGLLAYYVSLQPSDDSAFAVEKITPKKLKEALIT
VATSGALTDIPSDTPNLLAWNGGGSSNYTDIVAQGGY

>AAD26546.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEFTSEIPPSRLFKAFVLDADNLPKIAPQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>AAD26547.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEYTS EIPPPRLFKAFVLDADNLPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALDTIEKVS YETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESHLKGHPDAYN

>AAD26548.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEYTS EIPPPRLFKAFVLDADNLPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALDTIEKVS YETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>AAD26552.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEYTS EIPPPRLFKAFVLDADNLPKIAPQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>AAD26553.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVCTFENEFTSEIPPSRLFKAFVLDADNLPKIAPQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>AAD26554.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEFTSEIPPSRLFKAFVLDADNLPKIAPQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALDTIENISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>AAD26555.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEYTS EIPPSRLFKAFVLDADNLPKIAPQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKAKAHGLFKLIESYLKGHPDAYN

>AAD26558.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVYTFENEYTSSEIPPRLFKAFVLDADNLPKIAPQAIKHAIELEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDENYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVMAGKEKAHGLFKLIESYKLGHPDAYN

>AAD26560.1 Allergen isoallergen bet v 1 b1 [Betula pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLKAVESYLLAHS DAYN

>AAD26561.1 Allergen isoallergen Bet v 1 b2 [Betula pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGPILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYPLAHS DAYN

>AAD26562.1 Allergen isoallergen bet v 1 b3 [Betula pendula]
MGVFNJETEATSVIPAARLFKAFILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFP
EGIPFKYVKDRVDEVDHANFKYSYSLIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>AAD29409.1 Allergen Api g 4; profilin [Apium graveolens]
MSWQAYVDDHLMCEVEGNPGQTLTAAAIIGHDGSVWAQSSTFPQIKPEEIAGIMKDFDEP
GHLAPTGLYLGGAKYMQEAVIRGKKKSGGVTIKKTGQALVFGVYDEPVTGQC CNV
IVERLGDY LIDQGL

>AAD29410.1 Allergen Pyr c 4; profilin [Pyrus communis]
MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMQEAVIRGKKKSGGVTVKKTSQALVFGIYEEPLTPGQC NMIVE
RLGDY LIDQGL

>AAD29411.1 Allergen Pru av 4; profilin [Prunus avium]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAPFKPEEIAAILKDLDQPGTL
APTGLFLGGTKYMQEAGAVIRGKKKSGGITVKKTNQALIIGIYDEPLTPGQC NMIVE
RLGDY LIEQGL

>AAD29412.1 Allergen Mal d 4; profilin [Malus domestica]
MSWQAYVDDRLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMQEAGAVIRGKKKSGGVTVKKTGQALVFGIYEEPLTPGQC NMIVE
RLGDY LIDQGL

>AAD29413.1 Allergen Mal d 4; profilin [Malus domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHNGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMQEPEGVVIRGKKKSGGVTVKKSTMALLIGIYDEPMTGQC NMVVE
RLGDY LIEQGL

>AAD29414.1 Allergen Mal d 4; profilin [Malus domestica]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMQEPEGAVIRGKKKSGGITIKKTSQALLIGIYDEPVTGQC NIVVE
RLGDY LIEQGL

>AAD29671.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSEASYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYKLDHPDAYN

>CAB42886.1 Allergen Phl p 13; polygalacturonase [Phleum pratense]
GKKEEKKEEKESGDAASGADGTYDITKLGAKPDGKTDCTKEVEEAWASACGGTGKNTIV
IPKGDFLTGPLNFTGPCKGDSVTIKLDGNLLSSNDLAKYKANWIEIMRIKKTITGKGT
DGQGKAVWVGKNSCAKNYNCKILPNTLVDFCDDALIEGITLLNAKFFHMNIYECKGVTVK
DVTITAPGDSPTDGIHIGDSSKVTITDITIGTGDDCISIGPGSTGLNITGVTCGPGHGI
SVGSLGRYKDEKDVTDITVKNVLLKSTNGLRIKSYEDAKSPLTASKLTYENVKMEDVGY
PIIIDQKYCPNKICTSKGDSARVTVKDVTFRNITGTSSTPEAVSLLCSDKQPCNGVTMND
VKIEYSGTNNKTMAVCTNAKVTAAGVSEANTCAA

>CAB42887.1 Allergen Ves v 5; unknown/antigen 5 [Vespula vulgaris]
NNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE

TRGNPGPQPPAKNMKNLVWNDELA YIAQVWANQCEYGHDTCRDVAKYQVGVQNVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGNNFLKTGHYTMVWANTKEVGCOSIKYIQEKW
HKHYLVCNYGPSGNFKNEELYQTK

>CAB44442.1 Allergen Asp f 11; peptidyl-prolyl isomerase [*Aspergillus fumigatus*]
FHQTPSAMSQVFFDVEYAPVGTAEKTVGRIVFNLFDKDVPKTAKNFRELCKRPAGEGYRE
STFHRIIPNFMIIQGGDFTRGNNGTGGRSIYGDKFADENFSRKHKDKKILSMANAGPNTNGS
QFFITTAVTSWLDGKHVVFGEVADEKSYSVVKEIEALGSSSGSVRSNTRPKIVNCGEL

>AAD38942.1 Allergen Der p 4; alpha amylase [*Dermatophagoides pteronyssinus*]
KYHNPHFIGNRSVITHLMEWKYDDIGDECERFLGPYGYGGVQVSPVNEHAILDRRPWYER
YQPVSYDIRTRSGDEQQFRRMVKRCNKAGVRIYVDIVLNHMTGAQSGKGTNGHHYDGNTL
QYPGVVPGPNDPFGHESCPDLEIHDYTNPKERNCRSLGLRDLKQQSEYVRQKQVDFL
NHLIDIGVAGFRSDASTHQWPDDLRSIYSRLHNLNKEFFPENSQPFYIYHETIYYGGNGIN
SNEYTSLGRIIEFRFYKEITNVFRGNPLHWLKNFGTEWGLVPSGDALVMIDSHDLRVGH
TGKLGFNINCFEGRLLKAATAFMLAWNYGVPRVMSSYFWNQIIGDKGDVNDWVGPSPDKN
GNILSVHPNPDMTCNHEWICEHRWREIYNMVKFRMIAGQEPVHNWWDNGDYQIAFSRGNR
AFIAINLQKNQQNLQQKLHTGLPAGTYCDIISGNLIDNKCTGKSIHVVDKNGQADVYVGH
EFDAFVAYHIGARIVS

>AAD42074.1 Allergen Pen c 3; peroxisomal membrane protein [*Penicillium citrinum*]
MSLKAGDSFPEGVTFSYIPWAEDASEITSCGIPINYNASKEFANKKVVLFPALPGAFTPVC
SANHVPEYIQKLPELRAGVDQVAVLAYNDAYVMSAWGKANGVTGDDILFLSDPEAKFSK
SIGWADEEGRTYRYVLVIDNGKIIYAAKEAAKNSLELSRADHVLKQL

>AAD42942.1 Allergen Ses i 5; oleosin [*Sesamum indicum*]
MAEHYGGQQQTRAPHLQLQPRAQRVVKAAATAVTAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLVSWIYRYLTGKHPPGADQLES AKTKL
ASKAREMKDRAEQFSQQPVAGSQT

>AAD42943.1 Allergen Ses i 2; 2S albumin [*Sesamum indicum*]
MARFTIVLAVLFAAALVSASAHKTVVTTSVAEEGEEENQRGCEWESRQCQMRHCMQWMRS
MRGQYEEFRLSAEANQGFQFEHFRECCNELRDVKSCHRCEALRCMMRQMQQEYGMEMEQ
QMQQMMQYLPRMCGMSYPTECRMRPIFA

>AAD42944.1 Allergen Ses i 6; 11S globulin / legum-n-like protein [*Sesamum indicum*]
MVAFKLLALSLSLLVSAAIAQTREPLTQGGQCRFQRISGAQPSLRIQSEGGTTELWDE
RQEQFQCAGIVAMRSTIRPNGLSLPNYHPSRPLVYIERGQGLISIMVPGCAETYQVHRSQ
RTMERTEASEQQDRGSVRDLHQKVHRLRQGDIVAIPSGAAHWCYNDGSEDLVAVSINDVN
HLSNQLDQKFRAFYLGGVPRSGEQEQARQTFHNIFRAFDAELLSEAFNVPQETIRRMQ
SEEEERGLIVMARERMTFVRPDEEEGEQEHRGRQLDNGLEETFCTMKFRTNVESRREADI
FSRQAGR VHVVDRNKLPIKYMDLSAEKGNLYSNALVSPDWSMTGHTIVYVTRGDAQVQV
VDHNGQALMNDRVNQGEMFVVPQYYTSTARAGNNGFEWVAFKTTGSPMRSPLAGYTSVIR
AMPLQVITNSYQISPNQAQALKMNRGSQSFLLSPPGRRS

>AAC15474.2 Putative pollen allergen Jun o 4 [*Juniperus oxycedrus*]
MDEVPSDGSKSACSGEVVMEQSVHELEEVFKKFDANGDGKISGSELADILRSLGSDVGE
AEVKAMMEEADADGDGYVSLQEFVDLNNKGASVKDLKNAFKVFDRDCNGSISAAELCHTL
ESVGEPCTIEESKNIHNVDKNGDGLISVEEFQTMMTSEMTEKSK

>AAD46493.1 Allergen L3NieAg.01 [*Strongyloides stercoralis*]
NSARDENGLIYTYNGNDYDTKEAMEDAIQRDYPDKIFTFGGDNNNGKKRKIDISKWKN
NTFSNKIFDEIWEGYNYDNDKAKNFKVMKTKLFNEQNKYRIAHGAKKLIKSKDLEKKAQA
YAEVIARLGRLEHDPKNRIEGTGENLAYGTTFIGHLAVKGWYDEIALYNFKKPGFSPATG
HFTQLVWKGTTTHAGFGVVEKGDVYVYVXKYSPPGNYPQFXANVLQRKQ

>CAB51914.1 Allergen profilin Hev b 8 [*Hevea brasiliensis*]
MSWQAYVDDHLMCEIEGNHLSAAAIIGQDGSVWAQSANFPQFKSEEITGIMSDFHEPGTL
APTGLYIGGTKYMYIQGEPGAVIRGKKGGVTVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGY

>AAD47382.1 Allergen Ara h 3; 11S globulin / legumin-like protein [*Arachis hypogaea*]
MAKLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQGR

RYQSQRPPRRLQEEDQSQQQQDSHQKVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRQRSRRSLPYSYSPHSRPRREEREFR
PRGQHSRRERAGQEEDEGGNIFSGFTPEFLEQAFQVDDRQIVQNLWGENESEEEGAIVT
VRGGLRILSPDGTRGADEEEYDEDQYEHQDGRGRGRSGGGNGIETICTACVKKNI
GGNRSPHIYDPQRWFTQNC HDLNLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVD SNGNRVYDEELQEGHVLVVPQNF AVAGKSQSENF EYVAFKTD SRPSIANF
AGENSFIDNLPEEVVANSYGLPREQARQLKNNNPFKFFVPPFQQSPRAVA

>AAD48405.1 Allergen Cor a 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Corylus avellana]

MGVFCYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVEEIDHANFKYCYSHIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEEIKAGKEKAAGLFKAVEAYLLAHPDAYC

>CAB52710.1 Allergen Tri a 33; serpin [Triticum aestivum]

MATTLATDVRLSIAHQTRFGFRLASTISSNPESTANNVAFSPVSLHVALSLITAGAGGAT
RDQLVATLGEGEAERLHALAEQVVQFVLADASYADSPRVTFANGVFVDASLPLKPSFQEL
AVCKYKAEAQSVDFQTKAAEVTAQVNSWVEKVTTGLIKDILPAGSISNTTRLVLGNALYF
KGAWTDQFDSRVTKSDYFYLLDGSSIQTPFMYSSSEEQYISSSDGLKVLKLPYKQGGDKRQ
FSMYILLPEAPSGIWSLAEKLSAPELLERHIPRQKVALRQFKLPKFKISFGIEASDLLK
HLGLQLPFSDEADLSEMVDSPMPQGLRISSVFHKTFVEVNETGTEAAAATIAKAVLLSAS
PPSDMDFIADHPFLFLIREDTSGVVLFIGHVVNPLRSL

>CAB53458.1 Allergen Hev b 10; Mn superoxide dismutase [Hevea brasiliensis]

QTFSPLDLPYDYGALPAISGEIMQLHHQKHHQTYITNYNKALEQLNDAIEKGD SA AVVK
LQSAIKFNGGGHVNSIFWKNLAPVREGGGELPHGSLGW AIDADFGSLEKLIQLMNAEGV
ALQGS GWVWLALDKELK KLVVETTANQDPLVTKGPTLVPLL GIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>CAA55067.2 Allergen Cla h 5; acidic ribosomal protein P2 [Cladosporium herbarum]

MKYLA AFLLLGLAGNSSPSAEDIKTVLSSV GIDADEERLSSLLKELEGKDINELISSGSE
KLASVPSGGAGAASAGGAAAAGGAAEAPEAERAEEEEKEESDDDMGFGLFD

>AAD52012.1 Allergen Tri r 4 allergen [Trichophyton rubrum]

MAAAKWL IASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLNLKNGDINVLTTDS DVSEITWLGDGTKVVYINGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKSGDKIN FVG YGQSTTKGDLYNEAAAKEAVSSARIYDSL FVRHWD T
YVGTQFN AVFSGLTKSGDKYSFDGKLKNLVQPVKYAESPYPPFGGSGDYDLSSDGKTVA
FMSKAPELPKANL TTSYIFLVPHDGS RVAEPINKRNGPRTPQGIEGASSSPV FSPDGKRI
AYLQMAAKNYESDRRVIHIAE VGTNKP VQRIASNWDRSPEAVKWSSDGRTLYVTAEDHAT
GKLFTLPADARDNHKPA VVKHDGSVSSFYFIGSSKSVLISGNSLWSNALYQVATPDRPNR
KLFYANEHDP ELKGLGPN DIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDNWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
HDHIKYIDTDNGIAAGASFGGMVNWIQQQDLGRKFKALVSHDGT FVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVHND FDFRLSVAEGVGLFNVLQEKG
VPSRFLNFPDETHWVTKPENSLVWHQQVLGWVNKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>AAD52013.1 Allergen Tri r 2 allergen [Trichophyton rubrum]

MGFITKAIPVLAALSTVNGARILEAGPHAEAIPNKYIVVMKREVSDEAFNAHTTWLSQS
LNSRIMRRAGSSKPMAGMQDKYSLGGIFRAYSGEFDDAMIKDISSHDDVDFIEPDFVVRT
TTNGTNLTHQDNVPSWGLARVGSKKPGGTTYYYDPSAGKGVTAYIIDTGIDIDHEDFQGR
AKWGENFVDQQNTDCNGHGTHVAGTVGGTKYGLAKGVSLVAVKVLDCDGSNSGVIKGM
EWAMRQASGGNGTAKAAGKSVMNMSLGGPRSEASNQA AKAISDAGIFMAVAAGNENMDA
QHSSPASEPSVCTVAASTKDDGKA DFN YGAVVDVYAPGKDITSLKPGGSTDTLSGTSMA
SPHVCGLGAYLIGLGKQGGPGLCDTIKKMANDVIQSPGEGTTGKLIYNGSGK

>AAD52615.1 Allergen Pol a 1; phospholipase A1 [Polistes annularis]

MSPDCTFNEKDIVFYVYSRDKRDGILK KETLTNYDLFTKSTISKQV VFLIHGFLSTGNN
ENFVAMSKALIEKDDFLVISVDWKKGACNAFASTKDALGYSKAVGNTRHVGK FVADFTKL
LVEKYKVLISNIRLIGHSLGAHTSGFAGKEVQK LKLGKYKEIIGLDPAGPYFHRSDCPDR
LCVTDAEYVQVIHTSILGVYYNVGSVDFYVNYGKNQPGCNEPSCSHTKAVKYLTECIKH

ECCLIGTPWKKYFSTPKPISQCRGDTCCVGLNAKSYPARGAFYAPVEANAPYCHNEGIL

>AAD52616.1 Allergen Pol a 2; hyaluronidase [*Polistes annularis*]
YVLSLSPDSVFNITDDISHQILSRNCERSKRPKRVFSIYWNVPTFMCHQYGMNFDEVTD
FNIKHNKDNFRGETISIIYDPGKFPALMPLKNGNYEERNNGGVPQQRGNITIHLLQQFNEDL
DKMTPDKNFGGIGVIDFERWKPIFRQNWGNTEIHKKYSIELVRKEHPKWSESMIEAEATK
KFEKYARYFMEETLKLAKKTRKRAKWGYYGFPYCYNVTPNPGPDCDAKATIENDRLSWM
YNNQEILFPSVYVRHEQKPEERVYLVQGRIKEAVRISNNLEHSPSVLAYWWYVYQDKMDI
YLSETDVEKTFQEIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNTLGPFAVNVTTETVN
GRSSLNF

>AAD52672.1 Allergen Der f 15; chitinase [*Dermatophagoides farinae*]
MKTIIYAILSIMACIGLMNASIKRDHNDYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFIDEYKYTIQVFDPYQDDNHNSWEKRGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSDMAANPTYRQQFIQSVDLFLQYKFDGLDLDWEYPGSRLGNPKIDKQNYLALV
RELKDAFEPHYLLTAAVSPGKDKIDRAYDIKELNKLFDWMNVMTYDYHGGWENFYGHNA
PLYKRPDETDELHTYFNVNYTMHYLLNNGATRDKLVMGVPFYGRAWSIEDRSKLLKGDPA
KGMSPPGFISGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYYDDLASISC
KLAFLKELGVSGVMVWSLENDDFKGHCCKPKNPLLNKVNMMINGDEKNSFECILGPSTTTP
TPTT
TPSPTTTEHTSETPKYTTYVDGHLIKYKEGDIPHPTNIHKYLVEFVNGGWVHIMPCP
PGTIWCQEKLTCIGE

>AAD55587.1 Allergen Ara h 5; profilin [*Arachis hypogaea*]
MSWQTYVDNHLLCEIEGDHLSSAAILGQDGGVWAQSSHFQPKPEEITAIMNDFAEPSL
APTGLYLGGTKYMVIQGEPGAIIIPGKKGGVGTIEKTNQALIIGIYDKPMTPGQCNMIVE
RLGDYLIDTGL

>AAD56337.1 Allergen allergen Arah6 [*Arachis hypogaea*]
AHASAMRRERGRQGDSSSCERQVDGVNLKPCEQHIMQRMGEQEYDSYDFGSTRSSDQQ
QRCCDELNEMENTQRCEALQQIMENQCDGLQDRQMVQHFQKRELMNLPQQCNFGAPQRC
DLDVSGGRC

>AAD56719.1 Allergen Ara h 7; 2S albumin [*Arachis hypogaea*]
MMVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEH
MRRRVEQEQQEQDEYPYSRRGSRGRQPGESDENQEQRCCNELNRFQNNQRCCMCQALQOI
LQNQSFVWPAGQEPVASDGEQAQELAPELRVQVTKPLRPL

>P42040.2 E+N4nolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Allergen Cla h 6) (Cla h VI) [*Cladosporium herbarum*]

MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIAPALIKENLDVKDQAAVDAFLNKLDTGTTNKTIGANAILGVSMVAK
AAAAEKRVPLYAHISDLSTGKPFVLPVPMNVVNGGSHAGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLKSLTKKRYGQSAGNVGDEGGVAPDIQTAEALDLITDAIEEAGYTGO
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWITYEQLADQYKQLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKAIETKACNALLKVNQIGTITEAI
NAAKDSFAAGWGMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKAVYAGDNFRTAINL

>CAB58171.1 Putative troponin-like protein [*Anisakis simplex*]
MAEDIEEILAEIDGSQIEEYHKFFDMFDRGKQGYIMATQIGQIMHAMEQDFDEKQLRCLI
RKFDADGSGKLEFDEFKALVYTVANTVDKETLQKELREAFRLFDKEGNGYISRPTLKALL
KEIADDLSDDQLEAAVDEIDEDGSGKIEFEFEFWELMAGEAD

>AAB82772.2 Allergen beta-1, 3-glucanase [*Musa acuminata* AAA Group]
MATKASLSIKGFALLVSVLVAVPTRVQSIGVCYGMGLGNNLPPPSEVVSLYKSNNIARMRL
YDPNQAALQALRNSNIQVLLDVPRSDVQSLASNPSAAGDWIRRVVAYWPSVSFRYIAGV
NELIPGSDLAQYILPAMRNINYLSSAGLQNLQIKVSTAVDTGVLGTSYPPSAGAFSSAAQ
AYLSPVQFLASNGAPLLVNVYYPYFSYTGNGPQISLPYALFTASGVVVQDGRFSYQNLFD
AIVDAVFAALERVGGANVAVVSESGWPSAGGGAEASTSNARTYNQNLIRHVGGGTPRRP
GKEIEAYIFEMFNENQKAGGIEQNFGFLFYPNKQPVYQISF

>P35776.2 Putative Venom allergen 2 (Venom allergen II) (Allergen Sol r 2) (Sol r II) [Solenopsis richteri]
DIEAQRVLRKDIAECARTLPKCVNQDDPLARVDVWHCAMS KRGVYDNPDP AVVKEKNSK
MCPKIITDPADV ENCKKVSRVDRETQRPRSNRQKAINITGCILRAGVVEATV LAREK
>P35779.2 Putative Venom allergen III (Allergen Sol r 3) (Sol r III) [Solenopsis richteri]
TNYCNLQSCKRNNAIHTMCQYTSPTPGPMC LEYSNVGFTDAEKDAIVNKHNELRQRVASG
KEMRGTNGPQP PAVKMPNL TWDEP ELATIAQRWANQCTFEHDACRNVERFAV GQONIAATSS
SGKNKSTLSMILLWYNEVKDFDNRWISSFPSDGNILMHVGHY TQIVWAKTKKIGCGRIM
FKEDNWNKH YLVCNYGPAGNVLGAQIYEIKK
>P81657.1 Putative Venom allergen 5 (Antigen 5) (Ag5) (Allergen Vesp m 5) [Vespa mandarinia]
NNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKASGLTKAEKLEILKQHNEFRQKVARGLE
TRGKPGPQPPAKSMNTLVWNDELAQIAQVWAGQCDYGH DVCNRNTAKYSV GQONIAENGSTA
ASFASVSNMVQMWADEVKNYQYGSTKNKLIEVGHY TQMVMWAKTKEIGCGSIKIYIENGWHR
HYLVCNYGPAGNIGNEPIYERK
>CAB59976.1 Putative Gly d 2 [Glycyphagus domesticus]
GKMNFTDCGHNEIKELSVSNCTGNYCVIHRGKPLTLDAKFDANQDTASVGLVLT AIDGD
IAIDIPGLETNACKLMKCPIRKGEHQELIYNIGEIPDATPEIKAKVKAQLIGEHGVLACG
WVDGEVQE
>CAB62212.1 Allergen Lep d 5; unknown/partial [Lepidoglyphus destructor]
DDFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFID
SAKGHFERELKRADLNLAEKFNFESALSTGAVLHKDLTALATKVKAIETK
>CAB62213.1 Allergen Lep d 13; fatty acid-binding protein [Lepidoglyphus destructor]
MANIAGQYKLDKSENFQFLDKLGVGFLVKTA AKTVKPTLEVAVDGD TYIFRSLSTFKNT
EIKFKLGEEFEEDRADGKRVTVIVKDGDNK FVQTQYGDKEVKV VREFKGDVEVETASVD
GVTSVRPYKRA
>CAB62551.1 Allergen cup a 1 protein [Cupressus arizonica]
DNPIDSCWRGDSNWDQNRMKLADCVVGFSGSTMGGKGG EIYTVTSS EDNPVNPTPGTLRY
GATREKALWIIFSQNMNIKLQMPLYVAGYKTIDGRGAVVHLGN GGPCLFMRKASHVILHG
LHIHGCNTSVLGDVLVSESIGVEPVHAQDGD AITMRNV TNAWIDHNSLSDCS DGLIDVTL
GSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRM PRARYGLVHV
ANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRSTR
DAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGN AAPQLTQ NAGVVA
>AAF18269.1 Allergen Jug r 2; 7S globulin/vicilin-like protein [Juglans regia]
RGRDDDDDEENPRDPREQYRQCQEYCR RQGQGRQQQCCQIRCEERLEEDQRSQEERERRR
GRDVDDQNPRDPEQRYEQCQQQCERQR RGQEQTLCRRRCEQR RQEEERERQRGRDRQDPQ
QQYHRCQRRQC IQEQSPERQRQCQQR CERQYKEQQGRER GPEASPRRESRGREEEQQRHN
PYYFHSQSIRSRHESEEGEVKYLERFTE LLRGIENYRVVILDANPNTSMLPHHKDAE
SVAVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATVYVINQDSNERLEMV KLLQPVN
NPGQFREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDR LERFFDQQEQREGVIIRASQE
KLRALSQHAMSAGQRPWGRRSSGGPISLKSESPSYSNQFGQFF EACPEEHRQLQEMDVLV
NYAEIKRGAMMVPHYNSKATVVVYVVEGTGRYEMACPHVSSQS YEGQGRREQEEEEESTGR
FQKVTARLARGDIFVIPAGHP IAITASQENLRL LGFDINGENNQRDFLAGQNNIINQLE
REAKELSFNMPREEIEEIFESQMESYFVPTERQSRRGQGRDHPLASILDFAFF
>CAB63699.1 Allergen Lol p 1; beta expansin [Lolium perenne]
MASSSVLLVVALFAVFLGSAHGIKVP PGP NITAEYGDKWLD AKSTWY GKPTGAGPKDN
GGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTK PESCSCGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQKLRSAGELELQFR RVKCKYPDGT KPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEK GKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEVEDVIPEGWKADTSYSAK
>CAB64344.1 Allergen pollen allergen [Lolium perenne]
MAVQKYTV ALFLAVALVAGPADSYAADAGYTPAAAATPATPAATPAAGGGKATTDEQKLL
EDVNAGFKAAVAADANAPPADKFKIFEAAFSECKGLLATS DAKAPGLILKLD TDYDVAY
KAGEGATPEAKYDAFVTALTEALRVIAGALEVHAVK PATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALKECTGGAYETYK FIPSLEAAVKQAYATTVA
APEVKYAVFEAALTKAITAMSQAQKVAKPAAAATGAATVATGAATAAAGGATAAAGGYK

A

>AAF23726.1 Allergen allergen Pen n 13 [*Penicillium chrysogenum*]

MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFSTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDENTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSYTYDSTAGEGVVVFYGVDTGIDISHSDFGGRAKWGTNVVDN
DNTDGNHGHGHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNTSLGGFEFSKAVNDAAANVVKSGIFLSVAAGNEAENASNSSPASAAEACTIA
ASTSTDGSASFTNFGSVVDLYAPGQSITAAYPGGGGSKTSGTSMAAPHVAGVAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>CAB64688.1 Allergen rAsp f 8 [*Aspergillus fumigatus*]

MKYLA AFLLLALAGNTSPSSEDEVKAVLSSVGDIDEERLNKLI AELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGGAAAPAAKEKNEEEKEESDEDMGFGLFD

>CAB65963.1 Allergen Lep d 7; bacteriacidal permeability-increasing like protein [*Lepidoglyphus destructor*]

MQYLAI AVIVALAGLSAAAHKPAYYDDNMANQMVDQIVKSLTTKKELDPFKIEQTKVPID
KKIGLIHIKGSATIKNAVITGLSHISRRGDAKIDTDGGAF AATLKLGDKNIRIKTDLHLD
LGKIIHPNLKFEGHIGDIDMKLKLKLD AEGKPSLDQFEIDEF EQVELFIHGLGPLDPLVD
VIADSFVKYFNPQARKLVTDMLKPILVEEIKKLKLN

>AAF25553.1 Allergen latex protein allergen Hev b 7 [*Hevea brasiliensis*]

MATGSTPLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDL DGPDARIADYFDIAGT
STGGLITMILTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNLLKDLTVKDTLTDVIIPTFDIKLLLPIVIFSSDDAKCNALKNARLADVCISTA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNP TLLAL THIRNEIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIA TEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>AAF26449.1 Allergen Pru av 3; lipid transfer protein (LTP) type 1 [*Prunus avium*]

MACSAMTKLALVVALCMVVSVP I AQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNVVPYKISPSTNCATVK

>AAF26451.1 Allergen Pyr c 3; lipid transfer protein (LTP) type 1 [*Pyrus communis*]

MASSAVIKLALVVALCMAVSVAHAITCSQVSANLAPCIN YVRSGGAVPPACCNGIKTING
LAKTTPDRQAACNCLKNLAGSVSGVNP GNAESLPGKCGVNVVPYKISTSTNCATVK

>AAF28423.1 Putative group 6 allergen [*Dermatophagoides farinae*]

MIKIFLVTILIVITVTVDARFPRSLQPKWAYLDSNEFPRSKIGDSPIAGV VGGQDADLAE
APFQISLLKDY LIMKRHMC GGLISESTVVTAAHCTY GQKASSLSVRYGTNQR TSSSYGD
LKVKPIQHESYEQDQTQTDKTIILPNPVPSTNVQMNEIETEDIVDGDKVTIYGWGLT
DGNGKDL PDKLQKGSMTIVGNDR CNEK WGSINAIHPGMICALDKTQSGCNGDSSGGLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>CAB71342.1 Putative Lep d 10 protein [*Lepidoglyphus destructor*]

MEAIKNKMQAMKLEKDNAIDRAEIAEQSRDANLRAEKSEEEVRGLQKKIQQIENELDQV
QESLTQANTKLEEKESLQTAEGDVAALNRRIQLIEEDLERSEGR LKIATSKLEEASQSA
DESERMKMLEHR SITDEERMEGLESQ LKEARMM AEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGN NLKSLEVSEEKAQQREEA YEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRL EDELVHEKEKYKSISDEL DQTFAELTGY

>AAF31151.1 Allergen Ole e 8; calcium-binding protein / polcalcin [*Olea europaea*]

MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDEL AGLVKALGSNTSKEEIGRI
MEEIDTDKDGFINVQEF AAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERYAEHDCVEMIKSVDS DGDGYVSFE EFKMMMTNKS GNNSQA EPPK

>AAF31152.1 Allergen Ole e 8; calcium-binding protein / polcalcin [*Olea europaea*]

MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDEL AGLVKALGSNTSKEE IARM
MEEIDTDKDGFINVQEF AAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERYAEHDCVEMIKSVDS DGDGYVSFE EFKMMMTNKS GNNSQA EPPK

>AAF34341.1 Allergen latex profilin Hev b 8 [*Hevea brasiliensis*]

MSWQTYVDEHLMCDIDGHHLTAAAIIGHDGSVWAQSSSFPQFKPEEVAAIMKDFDEPGSL
APTGLHLGGTKY MVIQGEPGA VIRGKKGSGGITV KKTGQALIIGIYDEPLTPGQCNMIVE

RLGDYLLEQGM

>AAF34342.1 Allergen latex profilin Hev b 8 [Hevea brasiliensis]

MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVA AIMKDFDEPGSL
APTGLHLGSTKYMVIQGEPGA VIRGKKGSGGITVKKTSQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

>AAF34343.1 Allergen latex profilin Hev b 8 [Hevea brasiliensis]

MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSGFPQFKSDEVA AVMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

>AAF35431.1 Allergen Cha f 1; tropomyosin [Charybdis feriata]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLPEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEK

>CAB76459.1 Putative gly d 2.02 isoform [Glycyphagus domesticus]

GKMKFKDCGKGEVTELDITDCSGDFCVIHRGKPLTLEAKFAANQDTTKATIKVLAKVAGT
PIQVPGLETDGCKFVKCPIKKGDPIDFKYTTTTVPAILPKVKAEVTAELVGDHGV LACGRF
GRQVE

>CAA09886.2 Allergen Mala s 8; unknown [Malassezia sympodialis]

MVALKFAAVLSVVA AAVMAAPSSMDRRASPDNQVWVTSASDYCLILPRHRESIGDSESPG
RMRSFC SKPYDSSQGQINPGFWKEVHFKKTKNYVQLTGCINPRVQSTLLSHDDGGQYDSN
GNGGVGNPEGSVCLGYSSYVELVEPSDGKACIRCCVNDKYCDVGHDEDGCEAVIPGQYC

>CAA09938.2 Allergen Chi k 10; tropomyosin [Chironomus kiiensis]

MDAIKKKMAMKLEKDNALDRALLCENQARDANLRAEKAE EEAR TLQKKIQT IENDL DQT
QGQETLVNGKLEGKEKALQNAESEVAALNRRIQLGEDLDRSEERLASATAKLSEASAAA
DESERARKILENRSLADEERMDALENQLKEARFLAEADKKYDEVARKLAMVEADLERAE
ERA EAGEAKIVELEELRVVGNLKSLEVSEEKANQRE E EYKNQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLLEDELVSEKEKYREIGDDLDTAFVELILKE

>CAB82855.1 Allergen Pis s 2; 11S globulin / legumin-like protein [Pisum sativum]

MATTIKSRFPLLLLLGIIFLASVVCV TYANYDEGSEPRVPAQRERGRQEGEKEEK RHGEW
RPSYEKEEDEEEGQRERGRQEGEKEEK RHGEWRPSYEKQEDEEEKQKYRYQREKEDEEEK
QKYQYQREKKEQKEVQPGRERWEREEDEEQVDEEWRGSRREDPEERARLRHREERTKRD
RRHQREG EEEERSSESQERRNPFLFKSNKFLTLFENENGHIRLLQRFDKRSDFENLQNY
RLVEYRAKPHTIFLPQHIDADLILVVL SGKAILTVLSPNDRNSYNL ERGDTIKLPAGTTS
YLVNQDDEEDLRLVDLVIPVNGPGKFEAFDLAKNKNQYLRGFSKNILEASYNTRYETIEK
VLEEQEKDRKRRQGEETDAIVKVSREQIEELKKLAKSSSKSLPSEFEPINLRSHKPE
YSNKFGKLF EITPEKKYPQLQDLDFVSCVEINEGALMLPHYNSRAIVVLLVNEGKGNLE
LLGLKNEQQUEREDRKERNNEVQRYEARLSPGDVVIIPAGHPVAITASSNLNLLGFGINAE
NNERNFLSGSDDNVISQIENPVKELTFPGSVQEINRLIKNQKQSHFANAEP EQKEQGSQG
KRSPLSSILGTFY

>A59055 Allergen phospholipase A2, venom - Indian honeybee [Apis cerana]

IIYPGTLWCGHGNVSSGPNELGRFKHTDACCRT HDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGEKISSYFVGKMYFNLIDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKVYQWFDLRKY

>AAF65312.1 Putative venom allergen Sol g 4.01 precursor [Solenopsis geminata]

MKTFVLV SCLLVFTQIIYAVDIKELKIMNRILEKCIRTVPKGENDPINPLKNVNVLYCAF
SKRGIFTPKGVNTKQYINYCEKTIINPADIKQCKKLISKCIKKVYDRPGPIIERSKNLLS
CVLKKGVLELTVYGKKK

>AAF65313.1 Putative venom allergen Sol g 4.02 precursor [Solenopsis geminata]

MKTFVLV SCLLVFTQIIYAVDIKELKIVNRILKCKIRTVPKGENDPINPLKNVNVLYCAF
SKRGIFTPKGVNTKQYINYCEKTIINPADIKQCKKLISKCIKKVYDRPGPIIERSKNLLS
CVRKKGVLELTVYGKKK

>AAB50734.2 Allergen Cyn d 1 [Cynodon dactylon]

AIGDKPGPNITATYGSKWLEARATFYGSNPRGAAPDDHGGACGYKDVDKPPFDGMTACGN
EPIFKDGLGCRACYEIKCKEPEVECSGEPVLVKITDKNYEHIAAYHFDLSGKAFGAMAKKG
QEDKLRKAGELTLQFRRVKCKYPSGKITFHIEKGSNDHYLALLVKYAAGDGNIVAVDIK
PRDSDEFIPMKSSWGAIWRIDPKKPLKGPFSIRLTSEGG AHLVQDDVIPANWKPD TVYTS
KLQFGA

>AAF71379.1 Putative allergen Pen n 18 [*Penicillium chrysogenum*]

MKGFLSLTLLPLVAASPVAVNSIHNDAAPISSMTSKDIPDSYIVVFKKHVDPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGDFEAFMGLKHTFHIA G SLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFNKYLYAEEGGEGVDA YV
IDTGANVKHVD FEGRANWGKTIPQGD ADEDGNGHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGV EWA AE AHIKKS KKGDKKFKGSVANMSLGGSSRTL DLAVNA AVD
AGIHFAVAAGNDNADACNYSPAAAEKAITVGASTLADERAYFSNYGKCTDIFAPGLNLS
TWVGS DHATNTISG TSMASPHIAGLLAYYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGIIIDSAEKAFHKE
LGAIYSEIKDAVSV

>AAF72534.1 Allergen Bla g 7; tropomyosin [*Blattella germanica*]

MDAIKKKMAMKLEKDNAMDRALLCEQQARDANIRA EKA EEEARS LQKKIQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATA TAKLAEASQAA
DESERARKILES KGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQQIKTLNTRLKEAEARAE
FAERSVQKLQKEVDRL EDEL VHEKEKYKYICDDLDMTFTELIGN

>AAF72625.1 Allergen Cup s 1 pollen allergen precursor [*Cupressus sempervirens*]

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTATSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLMPL YVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGNTSVLGDV L VSESIGVEPVHAQDGD AITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVM L LGHDDTYDDD KSMKVTVAF
NQFGPNAGQRMPRARYGLVHV ANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKV ENGNLAPQLT
KNAGVVA

>AAF72626.1 Allergen Cup s 1 pollen allergen precursor [*Cupressus sempervirens*]

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLEMP L YVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGNTSVLGDV L VSESIGVEPVHAQDGD AITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVM L LGHDDTYDDD KSMKVTVAF
NQFGPNAGQRMPRARYGLVHV ANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKV ENGNLAPQLT
KNAGVVA

>AAF72627.1 Allergen Cup s 1 pollen allergen precursor [*Cupressus sempervirens*]

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLMPL YVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHSCNTSVLGDV L VSESIGVEPVHAQDGD AITMRNVT
NAWIDHNSLPDCSDGLIDVTLSSGTITISNNHFFNHHKVM L LGHDDTYDDD KSMKVTVAF
NQFGPNAGQRMPRARYGLVHV ANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKV ENGNLAPQLT
KNAGVVA

>AAF72628.1 Allergen Cup s 1 pollen allergen precursor [*Cupressus sempervirens*]

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLMPL YVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGNTSVLGNV L VSESIGVEPVHAQDGD AITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVM L LGHDDTYDDD KSMKVTVAF
NQFGPNAGQRMPRARYGLVHV ANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVST SACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKV ENGNLAPQLT
KNAGVVA

>AAF72629.1 Allergen Cup s 1 pollen allergen precursor [*Cupressus sempervirens*]

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHCNTSVLGNVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVSTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYTSNEAFKVENGNLAPQLT
KNAGVVA

>AAF72991.1 Putative beta-expansin [*Oryza sativa*]

MASSCLLLACVVAAAMVSAVSCGPPKVPVPGPNITAA YGKQWLEARGTWYGKPKGAGPDDN
GGACGYKDIDKAPFLGMNSCGNDPIFKDGGKGCSCFEVKCSKPEACSDKPVIIHITDMNT
EPIAA YHFDLSGHAFGAMAKEGKDEELRKAGIIDMQFRVRCKYPGETKVTFFHVEKGSNP
NYFAVLVKYVGGDGDVVKVELKEKGSEEWKPLNESWGAIWRIDTPKPLKGPFSRLRVTTES
DQKLVANDVIPDNWKANALYKSEIQVD

>AAF75225.1 Allergen Ani s 2; paramyosin, partial [*Anisakis simplex*]

PRAAGELQMKSLYEKAVEQKEALARENKKLQDELHEAKEALADANRKLHELDLENARLA
GEIRDLQTALKESDAARREAENRAQRLAADLQQLRIEMERRLQEKEEEMEALRKNMQFEI
DRLTAALADAEARMKAEISRLKKKYQAEIAELEMTVDNLNRANIEAQKTIKKQSEQMKIL
QASLEDTQRHLQQTLDQYALAQRKISALSAELEECKVALDNAIRARKQAEVDLEEANVRI
AELVSLTNNLTTIKNKLETELSTVRADLDETTKELHAADERANRALADAARAIEQLHEEQ
EHSMKIDALRRSLEEQVKQLQVQIQEAEAAALLGGKRVIAKLETRIRDLETALDEETRRH
KETQNALRKKDRRIKEVQMQRVDEEHKQFVMAQDTADRLLEKMNIQKRQLGEAESFTMANI
QRVRRYQRELEDAEGRADQAESSHLIRAKHRSSVVTGRSASASKVYVLEDEQ

>AAF80164.1 Allergen Jun v 1; pectate lyase [*Juniperus virginiana*]

MASPCLIAFLVFLCAIVSCSDNPIDSCWRGDSNWGQNRMKLADCAVGFGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHCNTSVLGDVVLVSESIGVVPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITIFNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVA

>AAF80166.1 Allergen Jun v 1; pectate lyase [*Juniperus virginiana*]

MASPCLIAFLVFLCAIVSCSDNPIDSCWRGDSNWGQNRMKLADCAVGFGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHCNTSVLGDVVLVSESIGVVPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVA

>CAB96215.1 Allergen Hev b 8; profilin [*Hevea brasiliensis*]

MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

>AAF82096.1 Allergen Glo m 5; unknown/antigen 5 [*Glossina morsitans morsitans*]

MNFVLATLSLLILGSAAVGGDYCGLCDNHDACVMQNVFQSGCPSGAKMIDLNKYQSALLD
AHNKKRNHVAGGGESKLKRACQMATMKWDESELAKLAEYNVKQCQMNHDRCRNTVKFKYAG
QNLAEGRSGGPPPDYRKLIEKAVDKWYEEVKDCNQGYIDSYPMNYRGAIGHFTVMVAE
RNTHVGCASEYTKSNGFQYFLMACNYATTNMMEFPIYKSCGSSAQDCKSGKNSKYPNLC
SPNEKYEVNKWIKNGVEYH

>CAB96931.1 Allergen Tri a 25; thioredoxin [*Triticum aestivum*]

MAASAATATAAAVGAGEVISVHSLEQWTMQIEEANA AKKLVIDFTASWCGPCRIMAPIF
ADLAKKFPAAVFLKVDVDELKSIAEQFSVEAMPTFLFMKEGDVKDRVVGAIKEELTNKVG
LHAAQ

>P81295.1 Putative Pathogenesis-related protein precursor (Pollen allergen Jun a 3) [*Juniperus ashei*]

MARVSELAFLLAATLAISLHMQEAGVVKFDIKNQCGYTVWAAGLPGGGKRLDQGTWTVN

LAAGTASARFWGRTGCTFDASGKGSCQTGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVDGGCNSACNVFKTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>AAF86369.1 Allergen major allergen I 18kDa antigen [*Aspergillus fumigatus*]

MTWTCINQQLNPKTNKWEDKRLLYNQAKAESNSHHAPLSDGKTGSSYAHWFTNGYDGNGK
LIKGRTPIKFGKADCDRPPKHSQNGMGKDDHYLLEFPTFPDGHDKYKFDKSKNPKEDPGPA
RVIYTYPNKVFVCGIVAHQRGNEGDLRLCSH

>AAF86462.1 Allergen Der p II allergen [*Dermatophagoides pteronyssinus*]

MYKILCLSLVA AVARDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEAN
QNTKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

>P82534.1 Allergen Nonspecific lipid-transfer protein 1 (LTP 1) (Major allergen Pru d 3) [*Prunus domestica*]

ITCGQVSSNLAPCINYVKG GGA VPPACCN GIRNVN LARTTADRRAACNCLKQLSGSIPG
VNPNNAAALPGKCGVNV PYKISASTNCATVK

>CAC00532.1 Allergen Hev b 9; enolase [*Hevea brasiliensis*]

MAITIVSVRARQIFDSRGNPTVEADV KLS DGYLARA AVPSGASTGIYE ALELRDGGSDYL
GKGVSKAVENVNIIIGPALV GKDP TDQV GIDNFMVQQLDGTVNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYEHIANLAGNKNLVLPVPAFN VINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDQTYDLNFK EENNGS QKISGEALKDLYKSFVAEYPIVSI
EDPFDQDDWAHYAKLTSEIGEKVQIVGDDLLVTNPKRVEKAIKEKACNALLKVNQIGSV
TESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIIEELGSEAVYAGANFRKPVEPY

>CAC05258.1 Putative Cup a 3 protein [*Cupressus arizonica*]

VKFDIKNQCGYTVWAAGLPGGGKEFDQGGQTWTVNLAAGTASARFWGRTGCTFDASGKGSC
RSGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDVSLVDGFNIPLAINPTNTKCTAPACKA
DINAVCPSELKVDGGCNSACNVLQTDQYCCRNAYVNNCPATNYSKIFKNQCPQAYSYAKD
DTATFACASGTDYSIVFCP

>AAG08987.1 Putative tropomyosin [*Haliotis diversicolor*]

MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKCCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGARVLESRLADDERIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKEKYKAISDELDTFAELAGY

>AAG08988.1 Putative tropomyosin [*Perna viridis*]

MDAIKKKMVAMKMEKKNALDRAEQLEQKLRTEEAKAKIEDDYNLSVKKNIQTENDYDNC
NTQLQDVQAKYERA EKQIQEHEQEIQSLTRKISLLEEGIMKAEERFTTASGKLEEASKAA
DESERNRKVLENLNSGNDERIDQLEKQLTEAKWIAEEADKKYEEAARKLAITEVDLERAE
ARLEAAEAKVIDLEEQLTVVGANIKTLQVQNDQASQREDSYEETIRDLTNRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLTEKEKYKAISDELDTFAELAGY

>AAG08989.1 Allergen tropomyosin [*Chlamys nobilis*]

MDAIKKKMAMKVDRENAQDLAEQMEQKLDKDTETAKAKLEEEFNELQKKL TATENNYDTV
NEQLQEANTKLEENSEKQITQLESDVGG LQRRLTLLEEDYERSEEKLNSTTEKLEEASKAA
DESERNRKVLEGRSNSYEERIDELEKQLETAKNVATDADHKFDEAARKLAITEVDLERAE
TRLEAADAKVLELEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTSLKDAENRAT
EAERQVVKLQKEVDRLLEDELLAEKERYKAISDDLDTFAEIAGY

>CAC05582.1 Putative pollen major allergen 2 protein [*Juniperus ashei*]

MSMKFMAALAF LALQLIVMAAGEDQSAQIMLDSDTKQYHRSSRNLRKR VHHRHDVAIVF
NVEHYGAVGDGKHDSTDAFEKTWNAACNKL SAVFLVPANKKFVNNLVFYGPCQPHFSFK
VDGTIAAYPDPKWKNSKIWMHFARL TDFNLMGTGVIDGQGNRWSDQCKTINGRTVCND
KGRPTAIKIDFSKSVTVKELTLNSPEFHLVFG ECDGVKIQGIKIKAPRDS PNTDGIDIF
ASKRFEIEKCTIGTGDDCVAVGTGSSNITIKDLTCGPGHGMSIGSLGKGNSRSEVSFVHL
DGAKFIDTQNGLRIKTWQGGSG LASHITYENVEMINAENPILINQFYCTSAACKNQRSA
VKIQDVTFKNIHGTSATTA AIQLMCSDSVPCSNIKLSNVFLKLTSGKVATCVNKNANGYY

TNPLNPSCSLHPGRTPKELELHQPTTLLMDEKMGASLNSSPPNCKNKCKGCQPCKPKL
IIVHPNQPEDYYPQRWVCSCHNKIYNP

>BAA23360.2 Allergen Gly m 5; beta conglycinin/ 7S globulin partial [Glycine max]
VEKEECEGEIIPRPRPQHPEREPQQGEKEEDEDEQPRPIPFPRPQPRQEEHEQREE
QEWPRKEEKRGEGKSEEEDEDEDEEQDERQFPFPRPPHQKEERKQEEDEDEEQRESEES
EDSELRRHKNKNPFLFGSNRFETLTKNQYGRIRVLQRFNRSPQLQNLRDYRILEFNKSP
NTLLLPNHADADYLIVILNGTAILSLVNNDDDRDSYRLQSGDALRVPSGTTYVVPDNDNE
NLRLLITLAIPVKNPGRFESFFLSSTEAQSYLQGFNRNILEASYDTKFEEINKVLFSREE
GQQQGEQRLQESVIVEISKEQIRALSRAKSSSRKTISSEDKPFNLRSRDPISNKLKGF
FEITPEKNPQLRDLDFLSIVDMNEGALLLPHFNKAIVILVINEGDANIELVGLKEQQQ
EQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNFFAIGINAENNRNFLAG
QDNVISQIPSVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSILR
AFY

>BAA74452.2 Allergen Gly m 5; beta conglycinin/ 7S globulin partial [Glycine max]
VEEEEECEEGQIPRPRPQHPERERQHGKEKEEDEGEQPRPFPRPRPQHQQEEHEQKEE
HEWHRKEEKHGGKGESEEQDEREHPRHQPHQKEEEKHEWQHKQEKHQGKESEEEEEEDQD
EDEEQDKESQESGESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKRSQQ
LQNLRDYRILEFNKSPNTLLPHHADADYLIVILNGTAILTLVNNDDDRDSYNLQSGDALR
VPAGTTYVVPDNDENLRMITLAIPVKNPGRFESFFLSSTQAQSYLQGFKNILEASY
DTKFEEINKVLFGREEGQQQGEERLQESVIVEISKKQIRELSKHAKSSSRKTISSEDKPF
NLSRDPISNKLKGLFEITPEKNPQLRDLVFLSVDMNEGALFLPHFNKAIVVLVIN
EGEANIELVGIKEQQQRQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLNFFA
FGINAENNRNFLAGSKDNVISQIPSVQELAFPGSAKDIENTLIKSQSESYFVDAQPQQK
EEGNKGRKGPLSSILRAFY

>CAC09234.1 Allergen Der p 7 allergen-like [Dermatophagoides pteronyssinus]
MMKLLLIAAAAFVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSDKFER
HIGIIDLKGQLDMRNIQVRGLKQMKRVGDANVKSSEDGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVVNHIGGLSILDPIFA
VLSVDVLTAFQDTVRAEMTKVLAPAFKKELENNQ

>AAF80379.2 Allergen acidic Cyn d 1 isoallergen isoform 1 precursor [Cynodon dactylon]
AMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGACGYKDVKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSSPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFPMKQSWGAIWRMDPPKPLKGPFTIRLTSESGHVEQDDVIPEDWKPDTVYKS
KIQF

>BAB15802.1 Allergen Gly m 6; glycinin/11S globulin [Glycine max]
MGKPFFTLSLSSCLLLLSSACFAITSSKFNECQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGLHLPSSYPYPMIIVVQGGKAIGFAFPGCPETFKEPQQQS
SRRGSRSSQQQLQDSHQKIRHFNEGDVLVIPPVGYWYTYNTGDEPVVAISLLDTSNFFNNQL
DQNPRVFYLAGNPDIHPETMQQQQQKSHGGRKQGQHQQQEEEGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDERKQIVTVEGGLSVISPKWQEQEDEDEDEDEEYEQTPSYPPRRP
SHGKHEDDEDEDEEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLVYRNGIYSPHWNLNANSVIYVTR
GKGRVVRVNCQGNVFDGELRRGQLLVPQNFVVAEQGGEGGLEYYVVKTHHNAVSSYIK
DVFRAIPSEVLSNSYNLGGQSQRQLKYQGNSGPLVNP

>AAG22740.1 Allergen Bet v 6; phenylcoumaran benzylic ether reductase [Betula pendula]
MAHKSILIGGTGYIGKFIVEASAKSGHPTFALVRESTVSDPVKGLVEKFKGLGVTLL
HGDLYDHESLVKAFKQVDVISTVGHLLQADQVKIIAAIKEAGNIKRFPSEFGNDVDRV
HAVEPAKTAFAKAEIRRKTEAEGIPYTYVSSNFFAGYFLPTLAQPGLTSPPREKVVIFG
DGNARAVFNKEDDIGTYTIRAVDDPRTLKIVYIKPAKNIYSFNEIVALWEKKIGKTLEK
IYVPEEKLLKDIQESPIPINVILAINHSVFVKGDHTNFEIEASFGVEASELYPDVKYTTV
EEYLQQFV

>AAG23840.1 Allergen Se s i 4; oleosin [Sesamum indicum]
MADRDRPHPHQIQVHPQHPRHYEGGVKSLLPQKGPSTTQILAITLLPISGTLCLAGIT

LVGTLIGLAVATPVFVIFSPVLVPAAILIAGAVTAFLTSGAFGLTGLSSLSWVLNSFRRA
TGQGPLEYAKRGVQEGTLYVGEKTKQAGEAIKSTAKEGGREGTART

>CAC13961.1 Allergen Hev b 10; Mn superoxide dismutase [Hevea brasiliensis]

QTFSLPDLPYDYGALPAISGEIMQLHHQKHHQTYITNYNKALEQLNDAIEKGDAAVVK
LQSAIKFNGGGHVNSIFWKNLAPVREGGGELPHGSLGWAIDADFGSLEKLIQLMNAEGA
ALRGSGWVWLALDKELKLVVETTANQDPLVTKGPTLVPLLIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>CAC14917.1 Allergen Tri a 31; triosephosphate isomerase [Triticum aestivum]

MGRKFFVGGNWKCNVTVEQVESIVNTLNAGQIASTDVVEVVVSPPYVFLPTVKGKLRPEI
QVAAQNCWVKKGGAFTGEVSAEMLVNLGVPWVILGHSERRSLMGESSEFVGEKVAYALAQ
GLKVIACVGETLEQREAGSTMAVVAEQTKAIADKIKDWTNVVAYEPVWAIGTGKVASPA
QAQEVHANLRDWLKTNVSPEVAESTRIIYGGSVTGASCKELAAQPDVDGFLVGGASLKPE
FIDIINAAVKSA

>AAG31026.1 Allergen subtilisin precursor [Bacillus licheniformis]

MMRKKSFVLGMLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNPDVAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPLNVLVGGASFVAGEAYNTDGNGHGTHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSGSGSYSGIVSGIEWATTNGMDVINMSLGGASGSTAMK
QAVDNAYAKGVVVVAAAGNSGSSGNTNTIGYPAKYDSVAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTNTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINV

>AAG35601.1 Allergen Zea m 12; profilin [Zea mays]

MSWQAYVDDHLLCDIEGQHLSSAAIVGHDGSVWAQSENFPELKPEEVAGMIKDFDEPGTL
APTGLFVGGTKYMVIQGEPPVIRGKKGTTGGITIKKTGMSLIIGIYDEPMPGQCNMVVE
RLGDYLIEQGF

>1G5U_A Allergen Hev b 8; profilin [Hevea brasiliensis]

MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGEPPAVIRGKKGSGGITVKRTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

>1QNX_A Allergen Chain A, Ves V 5, An Allergen From Vespula Vulgaris Venom [Vespula vulgaris]

AEAENNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKI
ARGLETRGNPGPPAKNMKNLVWNDELAYVAQVWANQCQYGHDTCDRVAKYQVGQNVAL
TGSTAACYDDPVKLVKMWEDEVKDYNPKKKFSGNDFLKTGHYTQMVWANTKEVGCOSIKY
IQEKWHKHVLCVNYGPSGNFKNEELYQTK

>1QMR_A Allergen Chain A, Birch Pollen Allergen Bet V 1 Mutant N28t, K32q, E45s, P108g [Betula pendula]

GVFNJETETTSVIPARLFKAFILDGDTLFPQVAPQAISVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATGDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>AAG40329.1 Allergen Cor a 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Corylus avellana]

MGVFSYEDEATSVIPARLFKSFVLDADNLIPKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGLFKAVEAYLLAHPDTC

>AAG40330.1 Allergen Cor a 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Corylus avellana]

MGVFCYEDEATSVIPARLFKSFVLDADNLIPKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGLFKAVEAYLLAHPDTC

>AAG40331.1 Allergen Cor a 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Corylus avellana]

MGVFSYEDEATSVIPARLFKSFVLDADNLIPKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKIPYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEEIKAGKEKAAGLFKAVEAYLLAHPDAYC

>AAG42254.1 Putative pollen allergen Poa p 5 [Poa pratensis]

MAVQKYTVLFLTVLVALVAGPAASYAADAGYAPATPAAAGAAAGKITPTQEQKLMEDINVG
FKAAVAAAAGAPPADKFKTFQAAFSASVEASAAKLNAAPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAATEALRIIAGVLKVHAVKPIETEETGAAKIPAGEQQIIDKIDAAFVA

ATAANAAPANDKFTVFEEAFNNAIKESTGGAYDITYKSIPSLEAAVKQAYAATIAAAPEVK
FAVFKAALTKAITAMADEVQKVSQPVAGAATAATGAATGAAGAATGAATVSAGG
YKV

>AAG42255.1 Allergen pollen allergen Hol 1 5b [*Holcus lanatus*]

MAVQKYTVLFLTVLVALVAGPAASYAADAGYAPTPPAAAGAAAGKITPTQEQKLMEDINVG
FKA AVAAAAGAPPADKFKTFQA AFSASVEASA AKLNAAQAPGFVSHVAATS DATYKAAVG
ATPEAKFDSFVAAFTEALRVIAGVLKVHAVKPIITEEIGA AKIPAGELQIIDKIDAAFVA
ATAANAAPANDKFTVFEEAFNNAIKESTGGAYDITYKSIPSLEAAVKQAYAATIAAAPEVK
FAVFKAALTKAITAMADEVQKVSQPVAGAATAATGAATGAAGAATGAATVSAGGYKV

>AAG42802.1 Allergen Ory c 3; lipophilin [*Oryctolagus cuniculus*]

MKLLVPLLLVALALGCYEADAAACPAFVLD SVGFLFDPKPVYRQKLAKYDAPPEAVEAKL
QVKECTDEIDK GKRVLIAAVLTKIVKECAL

>AAG42806.1 Allergen Ory c 3; lipophilin [*Oryctolagus cuniculus*]

MKVVMVLLLAALPLYCYAGSGCVLLESVVEKTIDPSVSVVEEYKADLQRFIDTEQTEAAVE
EFKECFLSQSNETLANFRVMVHTIYDSL YCAAY

>AAG44478.1 Allergen Pen o 18; serine protease [*Penicillium oxalicum*]

MKGLLSLTLPLLAASPTWSETIHNGAAP LISSTSAKEIPDSYIVVFKKHVGASAASAH
HSWVQDIHSDNVRMELKKRSLFGFESEPYLGVKHTFHVAGSLMGYAGHFHEDVIEQVRRH
PDVEYIEKDSEVHHFEDPAIEKNAPWGLARISHRDSLSFGS FNKYL YAEDGGEGVDAYVI
DTGTNDHVDFEGRASWGKTIPQGDQVDGNGHGHGTHCSGTIAGKKYGVAKKANVYAVKVL
RSNGSGTMSDVVKGVEWAAEAHIKKSKAAKD GKAKGFKGSVANMSLGGGSSRTLDLAVNA
AVDAGMHFAVAAGNDNADACNYSPAAAEKAVTVGASTLADERAYFSNYGKCTDIFAPGLN
ILSTWIGSKYAVNTISGTSMASPHIAGLLAYYVSLQPASDSAYAVEEITPKKLDALITI
ATSGALSDIPSDTPNLLAWNGGGSSNYTEIVSKGGYKAGASESMKKHLDELVGKVEEVIA
KEQVLSHELGAISEIKDAVSA

>AAG44480.1 Putative vacuolar serine protease [*Penicillium citrinum*]

DSPSVEKNAPWGLARISHRDSLSFGTFNKYL YAEDGGEGVDAYVIDTGTNTD HVDFEGRA
NWGKTIPEGDEDVDGNGHGHGTHCSGTIAGKKYGVAKKANVYAVKVLRSNGSGTMSDVVKG
EWA AEAHIKKAKAGKKGFKGSVANMSLGGGSSRTLDLAVNA AVDAGIHFAVAAGNDNADA
CNYSPAAENA VTVGASTLADERAYFSNYGKCTDIFAPGLNILSTWIGSKYAVNTISGTS
MASPHIAGLLAYYVSLQPSDDSAFAVEKITPKK LKEALITVATSGALTDIPSDTPNLLAW
NGGGSSNYTDIVAQGGYKAGSTVEDFEEHIHKL VNHAEV MHKELGAIYSEIKDAVAV

>BAB21489.1 Allergen Bet vI jap1 [*Betula platyphylla*]

MGVFNYETEATS VIPAARLFKAFILDGDKL VPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>BAB21490.1 Allergen Bet vI jap2 [*Betula platyphylla*]

MGVFNYETETTSVIPAARLFKAFILDGDNLF PKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDGVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>BAB21491.1 Allergen Bet vI jap3 [*Betula platyphylla*]

MGVFNYETETTSVIPAARLFKAFILDGDNLF PKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFEYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>AAK01235.1 Allergen Cor a 2; profilin [*Corylus avellana*]

MSWQTYGDEHLMCEIEGNRLAAAIIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRRKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>AAK01236.1 Allergen Cor a 2; profilin [*Corylus avellana*]

MSWQAYGDEHLMCEIEGNRLAAAIIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>AAK09361.1 Allergen Api c 1; phospholipase A2 [*Apis cerana cerana*]

IYPGTLWCGHGNVSSGPNELGRFKHTDACCRT HDMCPDVMSAGESKHGLTNTASHTRLS

CDCDDTFYDCLKNSGDKISSYFVGKMYFNLDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKAYQWFDLRKY

>AAD55792.2 Allergen Mes a 1; lipocalin / male-specific submandibular protein [Mesocricetus auratus]
MVKFLLLALALGVSCAQHQNLEVPSEVDGKWHSLYIAADNKSXVSEGGPLRVVYVKHLEC
SDECQFTTIKFYTKVENVCQEHRVVGKRGKDGKYITDFSGQNYFHVVEKADDTMTFHNVN
VDDSGKTNVILVVGKGESSIEQKQRFEKTAEKYDIPKENIEHLVTTDTCNQ

>AAK15087.1 Allergen Ses i 7; 11S globulin / legum-like protein [Sesamum indicum]
MALTSLLSFFIVVTLIRGLSAQLAGEQDFYWQDLQSQQHQKLQARTDCRVERLTAQEPT
IRFESEAGLTEFWDRNNQQFECAGVAAVRNVIQPRGLLLPHYNNAPQLLYVVRGRGIQGT
VIPGCAETFERDTQPRQDRRRRFRMDRHQKVRQFRQGDILALPAGLTLWFYNNNGEPLITV
ALLDTGNAANQLDQTFRHFFLAGNPQGGGRQSYFGRPQTEKQQGETKNIFNGFDDEILADA
FGVDVQTARRLKGGDDLRGRIVRAERLDIVLPGEERWERDPYSGANGLEETLCTAKL
RENLEPARADVYNPHGGRISSLNSLTPVLSWLRLSAEKGVLYRNGLVAPHWNLNAHSI
IYITRGSGRFQVVGHTGRSVFDGVVREGQLIIVPQNYVVAKRASQDEGLEWISFKTNDNA
MTSQLAGRLSAIRAMPEEVMTAYQVSRDEARLKYNREESRVFSSTSRYSWPRSSRPMSS
YMPKPFYVLDVIKSM

>AAK15088.1 Allergen Ses i 1; 2S albumin [Sesamum indicum]
MAKKLALAAVLLVAMVALASATYTTTVTTTAIDDEANQSQQCRQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQLRDCCQLRNVDERCCEAIRQAVRQQQEGGY
QEGQSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>AAK15089.1 Allergen Ses i 3; 7S globulin/vicilin-like protein [Sesamum indicum]
MSCGGRLCLVLFALLASAVVASESKDPELKQCKHQCKAQQQISKEQKEACIQACKEYIR
QKHQGEHGRGGDILEEEVWNRKSPIERLRECSRGCEQQHGEQREECLRRQCQEYQREKG
RQDDDNPTDPEKQYQQCRLQCRQEGGGGFSREHCERRREEKYREQQGREGGRGEMYEGR
EREEEQEEQGRGRIPYVFEDQHFITGFRTQHGRMRVLQKFTDRSELLRGIENYRVAILEA
EPQTFIVPNHWDAESVVFVAKGRGTISLVRQDRRESLNIKQGDILKINAGTTAYLINRDN
NERLVLAKLLQPVSTPGEFELFFGAGGENPESFFKSFSDEILEAAFNTRRDRLQRIFGQQ
RQGVIVKASEEQVRAMSRHEEGGIWPFGGESKGTINIYQQRPHSNQYQGLHEVDASQYR
QLRDLDLTVSLANITQGAMTAPHYNSKATKIALVVDGEGYFEMACPHMSRSRGSYQGETR
GRPSYQRVASRLTRGTVVIIIPAGHPFVA VASSNQNLQVLCFEVNANNNEKFPPLAGRRNVM
NQLEREAKELAFGMPAREVEEVSRSQEEFFFKGPRQQQGRADA

>AAB32652.2 Allergen Ole e 1; trypsin-inhibitor [Olea europaea]
QVYCDTCRAGFITELSEFIPGASVRLQCKEKKNGDITFEVGYTRAEGLYSMLVERDHKN
EFCEITLISSGSKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQVY
NKLGMYPNNM

>AAK25823.1 Allergen group V allergen Phl p 5 precursor [Phleum pratense]
PISVTAPPQQLPRPPATPPPPPPQLGASPYKLGSPKARSERPAIVPPADKYRTFVATF
GAASNKAFAEGLSGEPKGGAESSSKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLS
EALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFE
AAFNNAIKAGTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSE
AQKAAKPAAAATATATS AVGAPT GATTAAAGGYKV

>AAK28533.1 Allergen Cor a 8; lipid transfer protein (LTP) type 1 [Corylus avellana]
MGSLKLVCAVLLCMMVAAPVARASLTCPQIKGNLTPCVLYLKNGGVLPPSCCKGVRAVND
ASRTTSDRQSACNCLKDTAKGIAGLNPNLAAGLPGKCGVNIPYKISPSTNCNNVK

>AAK39511.1 Allergen Der f 11; paramyosin [Dermatophagoides farinae]
MNKKRDELAKLRKLEDVHIESEETAHHLRQKHQAAIQEMQDQLDQLQKAKNKSDEKQ
KFQAEVFELLAQLETANKEKLTALKNVEKLEYTVHELNIKIEEINRTVIELTSHKQRLSQ
ENTELIKEVHEVKLQLDNANHLKTQIAQQLEDTRHRLEEEERKRASLENHAHTLEVELES
LKVQLDEESEARLELERQLTKANGDAASWKSKEYAELQAHADVEELRRKMAQKISEYEE
QLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKATRHAQQLEKRV AQLEKINLDLKNKLEE
VTMLMEQAQKELRVKIAELQKLQHEYEKLRDQRDQLARENKCLTDDLAEAKSQLNDAHRR
IHEQEIEIKRLENERDELSAAYKEAETLRKQEEAKNQRLLAELAQVRHDYKRLAQKDEE
IEALRKQYQIEIQLNMRLAEAEAKLKTEIARLKKKYQAQITELSLDAANKANIDLQK
TIKKQALQITELQAHYDEVHRQLQQAQVDQLGVTQRRCQALQAELEEMRIALEQANRAKQ

AEQLHEEA VVRVNELTTINVN LASAKSKLESEFSALQADYDEVH KELRISDERVQKLTIE
LKSTKDLLIEEQERLVKLETVKKSLEQEVRTLHVRIEEVEANALAGGKRVI AKLESRIRD
VEIEVEEERRRHAETDKMLRKKDHRVKELLQ

>AAK49451.1 Allergen Asp f 22; enolase [*Aspergillus fumigatus*]

MPISKIHARSVYDSRGNPTVEVDVATETGLHRAIVPSGASTGQHEAHEL RDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKL DGTANKSNLGANAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVPFQNV LGGSHAGGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYQSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAIELKSCNALLLKV NQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPCRSERLAKLNQILRIEEE
LGENTVYAGSKFR TAVNL

>AAK51201.1 Allergen Pen c 22; enolase [*Penicillium citrinum*]

MPIAKVHARSVYVSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEA VELRDGDKAKWGGK
GVLKAVKNVNETIGPALIKENIDVKDQAKVDEFLNKL DGTANKGNLGANAILGVSLAIK
AAA AEKGVPLYVHISDLAGTKKPYVLPVPFQNV LGGSHAGGRLAFQEFMIVPDTAESFS
EGLRQGAEVYQKLKALAKKKYQSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
ISIAMDVASSEFYKTD AKKYDLDFKNPDSPTKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPLRIKKAIELKSCNALLLKV NQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPAR SERLAKLNQILRIEEE
LGENAIYAGKNFR TSVNL

>AAK54834.1 Allergen Mus a 1; profilin [*Musa acuminata*]

MSWQAYVDDHLLCDIDGQCLTAAAI VGHGDSVWAQSDAFPQCKPEEIAAIMKDFDEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGSGGVTIKKTNLALIIGIYNEPMTPGQCNMVVE
RLGDYLF DQGF

>AAK56124.1 Putative beta-expansin 1 [*Zea mays*]

MGSLVNNIMVVGAVLAALVAGGSCGPPKVPPGNIT TNYNGKWLTARATWYGGPNGAGAP
DNGGACGIKVNLPYSGMTACGNVPIFKDGGKCGSCYEVRC KEKPECSGNPVTVYITDM
NYEPIAPYHFDLSGKA FGLAKPGLNDKIRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYLA VLKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>AAG44693.2 Putative vacuolar serine protease [*Penicillium chrysogenum*]

MKGFLSLTLLPLVAASPVAVNSIHNDAAPI LSSMTSKDIPDSYIVVFKKHVDPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGDFEAFMGLKHTFH IAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFNKYLYAEEGGEGV DAYV
IDTGANVKHVD FEGRANWGKTIPQGDAD EDGNGHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGV EWA AEAHIKKSKKGD KFKGSVANMSLGGSSRTL DLA VNA AVD
AGIHFAVAAGNDNADACNYSPAAAEKAITV GASTLADERAYFSNYGKCTDIFAPGLNLS
TWVGS DHATNTISGTSMASPHIAGLLAYYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGGIIDSAEKAFHKE
LGA IYSEIKDAVSA

>AAK58415.1 Allergen Blo t 1; cysteine protease [*Blomia tropicalis*]

IPANFDWRQKTHVNP IRNQGGCGSCWAF AASSVAETLYAIHRHQNIILSEQELLDCTYHL
YDPTYKCHG CQSGMSPEAFKYMKQKGLLEESHYPYKMKLNQCQANARGTRYHVSSYNSLR
YRAGDQEIQAAIMNHGPVVIYIHGTEAHFRNL RKGILRGAGYNDAQIDHAVVLVWGWTQN
GIDYWIVRTSWGTQWGDAGYGFVERHHNSLGINNYPIYASL

>AAK58515.1 Allergen Ole e 9; beta 1,3 glucanase [*Olea europaea*]

MAANVQTSSLLFLV FLLLQNFYSANSQSFLGVNYGQLSDN LPSLQATVNLLKSTTIQKVR
LFGAEPAVIKAFANTGVEIVIGFDNGDIPTLASNP NVASQFVKS NVMSFYPASNIAITV
GNEVLTSGDQKLISQLLPAMQNVQNALNAASLGGKVKVSTVHAMA VLSQSYPPSSGVFNP
GLGDTMKALLQFQSANDAPFMISPYPYFAYKNQPTP DTLAFCLFQPNAGQVDSGNGHKYT
NMFDAQVDAVHSALNAMGFKDIEIVVAETGWPHGGDSNEVGPSLDNAKAYVGNLINHLKS
KVGTPMLPGKSIDTYLFSLYDEDKKTGASSEKYFGLFKPDGSTTYDVGLLKNTQNPTTPA
TPTPTPKAAGSWCV PKPGVSDDQLTGNINYACGQGIDCGPIQPGGACFEPNTVKAHAAYV

MNLYYQSAGRNSWNCDFSQTATLTNTNPSYGACNFPSGSN

>O04004.1 Putative Nonspecific lipid-transfer protein precursor (LTP) (Pollen allergen Amb a 6) (Amb a VI) (Allergen Ra6) [*Ambrosia artemisiifolia*]

MDCIRILWSVAVGLLLVSWRPTMFAASPTCDTVQNILAPCAGFLTGQEPSKACCTGVNNL
NNSRKTADRVAVCNCIKELTKSIAYPDKRMPPLSTKCGVKPDFPAVDKNLDCSKLPV

>CAC41633.1 Allergen Pla 1 1; Ole e 1-like protein / trypsin inhibitor [*Plantago lanceolata*]

TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQVQLDCKDDSKKVIYSIGGETDQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAAGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>CAC41634.1 Allergen Pla 1 1; Ole e 1-like protein / trypsin inhibitor [*Plantago lanceolata*]

TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAAGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>CAC41635.1 Allergen Pla 1 1; Ole e 1-like protein / trypsin inhibitor [*Plantago lanceolata*]

TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSGRPDCSEIPKLAAGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>AAK62278.1 Putative group 5 allergen precursor [*Dactylis glomerata*]

MAVQKYTVLFLAVVLVAGPVASYAADAGYTPAAAATPATAGGKAMTEEQTLIEDVNAGF
KAAVAAASSAPPADKFKTTEATFTAACKANIAAAATKVPLFVAKLDAAYAVAYKTATGPT
PEAKYDAFVAALTEALRVIAGALEVHAVKPAEEVPAKIPAGELQIVDKIDAAKYIAAT
AANAAPANDKFTVFEGAFNKAIKESTGGAYESYKFIPTLEAAVKQAYAATVAAAPEVKYA
VFEAALTKAITAMSEAQKVATPAAVATGAATAAASAATGAATAAAGGYKV

>P92918.1 Allergen Api g 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [*Apium graveolens*]

MGVQKTVVEAPSTVSAEKMYQGFLDMDTVFPKVLPLIKSVEILEGDGGVGTVKLVLHLG
EATEYTTMKQKVDVIDKAGLAYTYTTIGGDILVDVLESVVNEFVVVPTDGGCIVKNTTIY
NTKGDAVLPEDKIKEATEKSALAFKAVEAYLLANLQFLA

>Q9HDT3.2 Putative Enolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Major allergen Alt a 11) (Alt a XI) [*Alternaria alternata*]

MTITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWGGK
GVTKAVANVNDTIAPALIKEKLDVKDQSAVDAFLNKLDTTNTNLGANAILGVSMIAIAK
AAAAEKGVPLYAHISDLAGTKKPYVLPVPFQNVLNGGSHAGGRLAFQEFMIVPCEAPTFS
EAMRQGAEVYQKLKALAKKTYGQSAGNVGDEGGVAPDIQTAEALDLITKAIEEAGYTGK
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWLTYEQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSYFFKTYDQIVGDDLTVTNPEFIKKAIELKSCNALLLKVNQIGTITEAIQA
AKDAFGAGWGMVSHRSGETEDVTIADIVVGLRSGQIKTGAPARSERLAKLNQILRIEEE
LGDNAVYAGNNFRTAVNL

>Q9LEI9.1 Putative Enolase 2 (2-phosphoglycerate dehydratase 2) (2-phospho-D-glycerate hydro-lyase 2) (Allergen Hev b 9) [*Hevea brasiliensis*]

MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAVPRGASTGIYEALRLDGGSDYL
GKGVSKAVENVNIIIGPALVGKDPTDQVGIDNFMVQQLDGTVNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYKHVANLAGNKNLVLPVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDKTYDLNFKEENNGSQKISGDVLKDLKYSFVTEYPIVSI
EDPFDQDDWEHYAKLTSEIGVKVQIVGDDLVTNPKRVEKAIKEKACNALLLKVNQIGSV
TESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIIEELGAEAVYAGANFRTPVEPY

>P78983.2 Putative Heat shock 70 kDa protein (Allergen Alt a 3) [*Alternaria alternata*]

KTNKIVITNDKGRLSKEEIERMLAEAEKYKAEDEAEAARISAKNALESYAYSLRNTLSDS
KVDEKLDAGDKQKLTAIDKTVQWLDDNQTATKDEYESQQKELEGVANPIMMKFYGAGGE
GGMPGGMPGGMPGGAPGGAAGDDGPTVEEVD

>Q92260.1 Putative Heat shock 70 kDa protein (Allergen Pen c 19) [*Penicillium citrinum*]

AYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNVLRINEPTAAAIAYGLDKKTEGE
RNVLIFDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFVNEFKRKHKKD

LTTNARALRRLRTACERAKRTLSSAAQTSIEIDSLFEGIDFYTSITRARFEELCQDLFRG
TMEPVERVLRDAKIDKSSVHEIVLVGGSTRIPKIQKLVSDFFNKDANKSINPDEAVAYGA
AVQAAILS GDTSSKSTNEILLDVAPLSLGIETAGGVMTPLIKRNNTTIPTKKSETFSTYS
DNQPGVLIQVFEGERARTKDNLLGKFELTGIPPAPRGVVPQIEVTFDL DANGIMNVSASE
KGTGKSNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEASRIQAKNGLESYAYS LKNT
ITEGKLQMSDDDKKIEDKISEIISWLDNNTAETKDEYESQKQKELEAIANPIMQAAYGAA
GGAPPQQRADGETEEKKDEEELD

>Q9M5X7.1 Non-specific lipid-transfer protein precursor (LTP) (Allergen Mal d 3) [Malus domestica]

MASSAVTKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRSGGAVPPACCN GIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLP GKCGVNVVPYKISTSTNCATVK

>P82971.1 Putative Phospholipase A2 (Phosphatidylcholine 2-acylhydrolase) (Allergen Bom t 1) [Bombus terrestris]

IIFPGTLWCGNGNLANGTNQLGSWKETDSCCRTHDMCPDLIEAHGSKHGLTNAADYTRLS
CECDEEFRRCLHNSGDTVSAAGFVGRTYFTVLHTQCFRLDYPIVKCKVKSTILHRSKCYDF
ETFAPKKYQWFDVLQY

>P58171.1 Putative Polcalcin Syr v 3 (Calcium-binding pollen allergen Syr v 3) [Syringa vulgaris]

MAEEVAELERIFKRFDANGDGKISSSELGETLKTLSVTPEEIQRMMAEIDTDGDGFISF
EEFKDFARANSGLIKDVAKIF

>Q9TOM8.1 Allergen Profilin-2 (Pollen allergen Par j 3) [Parietaria judaica]

MSWQAYVDDHLMCDVGDGNTLASAAIIGHDGSVWAQSANFPQLKPEEVTGIMNDFNEGGF
LAPTGLFLGGTKYMIQGESGAVIGKKGSGGATLKKTGQAIVIGIYDEPMTPGQC NLVVE
RLGDYLLEQGM

>Q9XG85.1 Allergen Profilin-1 (Pollen allergen Par j 3) [Parietaria judaica]

MSWQAYVDDHLMCDVGDGNTPASAAIIGHDGSVWAQSANFPQLKPEEVTGIMNDFNEAGF
LAPTGLFLGGTKYMIQGESGAVIRGKKGSGGATLKKTGQAIVIGIYDEPMTPGQC NLVV
ERLGDYLLEQGL

>O65200.1 Allergen Major allergen Pyr c 1 [Pyrus communis]

MGLYTFENEFTSEIPPRLFKAFVLDADNLIPIKIAQAIKHAIELEGNGGPGTIKKITFG
EGSQYGYVKHRVDSIDEASYSYAYTLIEGDALDTIEKISYEAKLVASGSGSTIKSISHY
HTKGDIEIKEEHVKAGKEKAHGLFKLIESYLKDHDPAYN

>Q9NAS5.1 Putative Tropomyosin (Allergen Ani s 3) [Anisakis simplex]

MDAIKKKMAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSTANSNLEEKEKKVQEAEEVAALNRRMTLLEEELERAEERLKLATAKLEEATHA
DESERVRKVMENRSFQDEERANTVESQLKEAQM LAEEADRKYDEVARKLTMVEADLERAE
ERAETGENKIVELEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLLEDELVHEKERYKSISEELDQTFQELSGY

>P19963.2 Allergen Major pollen allergen (Allergen Ole e 1) (Ole e I) [Olea europaea]

EDIPQPPVSQFHIQGGVYCDTCRAGFITELSEFIPGASRLQCKDKENGDVTFTEVGYTR
AEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFKLNTVNGTTRTVNPL
GFFKKEALPKCAQVYNKLGMYPPNM

>AAK63086.1 Allergen Gad m 1; parvalbumin beta [Gadus morhua]

MAFAGILADADCAA AVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLFLQVFKAGARALDAETKAFLKAGDSDGDGAIGVDEWAVLVKA

>AAK63087.1 Allergen Gad m 1; parvalbumin beta [Gadus morhua]

MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSPADIKKVFEIIDQDKSDFVE
EDELKLFLQNFSAGARALSDAETKVFLKAGDSDGDGKIGVDEFGAMIKA

>AAK63088.1 Allergen parvalbumin [Theragra chalcogramma]

MSFAGVLADADVKAALAGCAAADSFNYKTFKACGLAAKSHEEVKKAFFVIDQDQSGFIE
EDELKLFLQTFGAGARELTAETKAFLAAGDEDGDGMIGVDEFVTLVKA

>AAK63089.1 Allergen parvalbumin [Theragra chalcogramma]

MAFAGILKDAEVA AALEACKSAGSFDHTKFFKSCGLAGKSSDDVKKAFGIIDQDQSGFIE
EEELKLFLQNFSASARALSDAETKAFLKAGDSDGDGKIGVDEFAAMVKA

>CAC42881.1 Allergen Hev b 11; chitinase (class I) [Hevea brasiliensis]

EQCGRQAGGALCPGGLCCSQYGCANTPEYCGSGCQSQC DGGGGGEDGGIDLGSIISRST
FEMLKHRNDAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHATTG

GWPTAPDGPYAWGYCYKEELNQASSYCSPPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNPNPDLVATDRVISFKAAIWFWMTPQFPKPSCHDVITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGRGWDARVEDRIGFYKRYCDMFAVGYGSNLDCYNQTPFGLG

>AAK67491.1 Allergen Cur l 2; enolase [Curvularia lunata]

MAITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKTKWGGK
GVTKAVANVNDIIPALIKEKLDVKDQSAVDAFLNKLGDGTENKTKLGANAILGVSMIAIAK
AAAAEKGVPLYAHISDLAGTKKPYVFRFLSKNVLNGGSHAGGFLLFQEFMIAPAKTFAEA
LRIRQGAEVYQKLKALTKKTYGQSAGNYGDEGGVAPDIQTAEALDLIVDAIEAAGHTGQ
IKIAMDVASSEFFKDDKDYDLDFKNPDSKSKWLTYPQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSHFYKDGDFQIVGDDLTVTNPEFIKTAIELKSCNALLLKVNQIGTISEAINA
AKDAFGAGWGMVSHRSGETEDVTIADIVVGLRSGQIKTNAPARSERLAKYNQILRIEEE
LGDKRLFAGNKFHTAINLYL

>AAK67492.1 Allergen Cur l 3; cytochrome c [Curvularia lunata]

MGFEQGDAAKKGANLTKRCAQCHTLKAGEGNKIGPELHGLFGRKTGSVAGYSYTDANKQK
GIEWNHDTLFEYLENPKKYIPGTKMAFGGLKPKDRNDLITFLEQETK

>AAG02250.1 Allergen ferritin heavy chain-like protein [Dermatophagoides pteronyssinus]

MAANPESTTKTSRVRMNFHKECEAGINKQINLELYASYVYQQMAFHFNREDVALPGFEKF
FHESSEEREHAEKLMKLQNRGGRIVLQDIPKPVQQDWSSGLEALKASLELEKTVNQSL
LDLHDLATKHNDAAQFADFIENYLHEQVEAIKKLADYITNLERCOSVGLGEYLFDRHTLQ

>CAC48400.1 Putative putative allergen jun o 1 [Juniperus oxycedrus]

MASPCRAVLVFLCAIVSCYSDNPIDSCWRGDSNWGQNRMKLADCVVGFSGSTMGGKGG
FYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHKVMMLGHDDTYDNDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANWWRSTRDAFTNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

>AAK96255.1 Allergen acidic allergen Cyn d 1 precursor [Cynodon dactylon]

AMGDKPGPNITATYGDKWLDAAKATFYGSDPRGAAPDDHGGACGYKDVDKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSSPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHVEQDDVIPEDWKPDTVYKS
KIQF

>AAK96887.1 Allergen allergen II [Arachis hypogaea]

MAKLTILVALALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSY
ERDPYSPSQDPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRRCMCEALQQIMENQSDRL
QGRQQEQQFKRELRLNPQQCGLRAPQRCDLDVESGG

>AAK13027.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVFTYSEFTSVIPPARLNFNAFVLDADNLIPKIAPQAVKSAEILEGDDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKDNFVYKYSVIEGDAISETIEKISYETKLVAAAGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFKLIENYLLEHQDAYN

>AAK13029.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVCTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKVGKEKAHGLFKLIESYLKDHDPDAYN

>AAK13030.1 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]

MGVYTFENEYTSIPPPRLFKAFVLDADNLIPKIAPQAIKHAIEILEGDDGGPGTTKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHDPDAYN

>AAK96889.1 Putative tropomyosin [Crassostrea gigas]

NSARGFDTVNEKYQECQTKMEEAEKTASEAEQEIQLNRRIQLLEEDMERSEERLQTATE
KLEEASKAADESERNRKVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAI
TEVDLERAEARLEAAEAKVLELEEBELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQR
LKDAENRATEAERTVSKLQKEVDRLLEDELLAEKERYKAISDELDTQFAELAGY

>BAB64303.1 Putative beta-conglycinin alpha prime subunit [Glycine max]
MMRARFLLLLGVVFLASVSVSFGIAYWEKQNP SHNCLRSCNSEKDSYRNQACHARCNL
LKVEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPRPRQPRQEGEHEQK
EEHEWHRKEEKHGGKGSSEEQDGREHPRPHQPHQKEEEKHEWQHKEKHQKGESEEEEEED
QDEDEEQDKESQSEGESQREPRRHKNKNPFHFN SKRFQTLFKNQYGHVRVLQRFNKRS
QQQLQNLRDYRILEFN SKPNTLLLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA
LRVPAGTTYVYVNPNDENLRMITLAIPV NKPRGFESFFLSSTQAQQSYLQGF SKNILEA
SYDTKFEEINKVLF GREGQQQGEERLQESVIVEISKQIRELSKRAKSSSRKTISSEDK
PFNLRSRDP IYSNKLGLKLF EITPEKNPQLRDL DVFLSVVDMNEGALFLPHFN SKAIVVLV
INEGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATS DLNF
FAFGINAENNQRNFLAGSKDNVISQIP SQVQEL AFLGSAKD IENLIKSQSES YFVDAQPQ
QKEEGNKGRKGPLSSILRAF Y

>BAB64306.1 Putative beta-conglycinin beta-subunit [Glycine max]
MMRVRFP LLVLLGTVFLASVCVSLKVRE DENNPFYFRSSNSFQTLFENQNGRIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFL LFVLSGRAILTLVNNDDRDSYNLHP
GDAQRIPAGTTYLVNPHDHQNLKIIKLAIPV NKPSRYDDFFLSSTQAQQSYLQGF SHNI
LET SFHSEFEEINRVLFG EEEEEQRQQEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLR SRNPIYSNNFGKFFEITPEKNPQRDL DIFLSSVDINEGALLPHFN SKAIVILVIN
EGDANIELVGIKEQQQKQKQEEEPLEVRKYRAELSEDDV FVIPAAYPFVVNATS NLNFLA
FGINAENNQRNFLAGEKDNVVRQIERQVQEL AFPGSAQDVERLLKKQRES YFVDAQPQQK
EEGSKGRKGPFP SILGAL Y

>AAF07903.2 Allergen Tria p 1; procalin [Triatoma protracta]
MKTFIVITFIGILSYAYADECENPEPMQGF SASQFYQGXWYVTHETSAXTLSECNILTTS
NDNGKFTVKHKYTKDGXV GELICEGQASANNKFTYDCKFXGZTMEQVTRTAMDTDYNDYA
LYYLCTTYKXGPNAGKKEGHYILSRQP NTEIPDALKTKTKDLNLKLCG

>AAL07320.1 Allergen Lit c 1; profilin [Litchi chinensis]
MSWQTYVDDHLMCETD GQHLTAAAIIGHDGSVWAQSANFPQFKPAEIAAIMKDFDEPGSL
APTGLHLGGTKY MVIQGEPGA VIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLV DQGL

>IJTI_A Allergen Gal d 2; ovalbumin [Gallus gallus]
GSIGAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTR TQINKVVRFD
KLPFGFDSIEAQCGTSVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPILPEYLQC
VKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSVDSQTAMVLVNAIVF
KGLWEKTFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTMS
MLVLLPDEVSGLEQLESII NFEKLT EWTSNNVMEERKIKVYLPRMKMEEKYNLTSVLMAM
GITDVFSSANLSGISSAELKISQAVHAAHAEINEAGTEVVGSAEAGVDAASVSEEFRA
DHPFLFCIKHIATNAVLF FFGRCVSP

>CAC85911.1 Allergen Plo i 1; arginine kinase [Plodia interpunctella]
MVDAATLEKLEAGFSKLAASDSKSLK KYLTREVF DALKNKKT SFGSTLLDSIQSGVENL
HSGVGIYAPDAEAYVVFADLFDPIIEDYHNGFKKTDKHPPKNWGDVETLGNLDPAGEFVV
STRVRCGRSMEGYPFN PCLTEAQYKEMEEKVSSTLSGLEGELKGTFFPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPSGRGIYHNENK TFLVWCNEEDHLRLISMQMGGDLKQ
VYKRLVRGVNDIAKRIPFSHNERL GFLTFCPTNLGTTVRASVHIKLPKLAADKAKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYEAVKEMYDGIAELIKIEKSL

>AAL14077.1 Allergen acidic Cyn d 1 isoallergen isoform 2 precursor [Cynodon dactylon]
MLAVVAVVLAS MVGGALCAMGDKPGPNITATYGDKWLD AKATFYGSDPRGAAPDDHGGAC
GYKD VDKAPFDGMTGCGNEPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNP NYLA
LLVKY AAGDGNIVSVDIKSKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSES GGHV
EQEDVIPEDWKPD TVYKSKI QF

>AAL14078.1 Allergen acidic Cyn d 1 isoallergen isoform 3 precursor [Cynodon dactylon]
MLAAVAVVLAS MVGGAWCAMGDKPGPNITATYGDKWLD AKATFYGSDPRGAAPDDHGGAC
GYKD VDKAPFDGMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKITFHVEKGS SP NYLA

LLVKYAAGDGNIVGVDIKPKGSDVFLPMKLSWGAIWRMDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>AAL14079.1 Allergen acidic Cyn d 1 isoallergen isoform 4 precursor [Cynodon dactylon]
MLAVVAVVLASMGALCAMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGAC
GYKDVDPKAPFDSMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>CAD10374.1 Putative ypr10 [Castanea sativa]
MGVFTHENEITSAIPPGRFLKFAFVLDADNLIPLKLAHAIKSAEIIENGNGGPGTIKKITFG
EGSQFKYVXHRIDEIDQANFTYCYSVIEGDVVNELLEKISYEIKIVASPDGGSILKNTSK
YHTKGEQEIKEEKVMAGKEKAAGLFAVEAYLLAHSDAYN

>CAD10376.1 Allergen Cap a 2; profilin [Capsicum annuum]
MSWQTYVDDHLMCEIEGNRLTSAAIIGQDGSVWAQSATFPQFKPEEITAIMNDFAEPGTL
APTGLYLGGTKYMVIQGEAGAVIRGKKGPGGITVKKTNQALIIGIYDEPMTGQCNMIVE
RLGDYLIEQSL

>CAD10377.1 Allergen Sola l 1; profilin [Solanum lycopersicum]
MSWQTYVDEHLLCENEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGIMNDFAVPGTL
APTGLYLGGTKYMVIQGEPEAVIRGKKGPGGITIKKTNQALIIGIYDEPMTGQCNMIVE
RLGDYLIEQSL

>BAB71741.1 glyoxalase I [Oryza sativa Japonica Group]
MASGSEAEKSPEVVLEWPKKDKRVLHAVYRVGDLDRTIKCYTECFGMKLLRKRDRVPEEK
YTNAFLGFGPEDTNFALELTNYNYGVDKYDIGAGFGHFAIATEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFELIQRGPTPEPLCQVMLRVGDLDRSIKFYEKALGMK
LLRKKDVPDYKYTIAMLGAYADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNTKIASFLDPDGWKVVLVDNADFLKELQ

>CAC34055.2 Allergen Cap a 1; thaumatin-like protein [Capsicum annuum]
MGYLRSSFVFLFLAFVITYTYAATFEVRNNCPTYVWAASTPVGGGRRLDRGQWTINAPPG
TAMARIWGRNTCNFDGSGRGSCQTGDCGGVLQCTGWGKPPNTLAEYALNQFNLDLDFWDIS
LVDGFNIPMTFAPTNPSGGKCHAIQCTANINGECPGSLRVPGGCNPCTTFGGQQYCCTQ
GPCGPTELSKFFKKRCPDAYSYPQDDATSTFTCPSTNYRVVFCPNGVTGPNFLEMPG
SDGVAK

>AAL29690.1 profilin [Solanum lycopersicum]
MSWQTYVDDHLMCDIEGNHLTSAAIIGQDGSVWAQSANFPQFKPEEITAIMNDFAEPGTL
APTGLHLGGTKYMVIQGEAGAVIRGKKGAGGITVKKTNQALIIGIYDEPMTGQCNMIVE
RLGDYIIEQGL

>AAL37561.1 Allergen conglutin [Arachis hypogaea]
AKSTILVALLALVLVAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQEQ
YDSYDIRSTRSSDQQQRCCDELQMENTERCMEALQQIMENQCDRLQDRQMVQQFKREL
MNLPPQCNFRAPQRCDLDVSGGRC

>BAB79444.1 Putative BW8KD allergen protein [Fagopyrum esculentum]
MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTMDMMDDDSMRGREG
RSEESMRGCCLAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMQLPNKCGMGH
MRCHMGIGTRDYE

>CAC81811.1 Allergen Mus a 2; chitinase / hevein-like protein (class 1) [Musa acuminata]
MKALLVIFTLASSLGAFAEQCGRQAGGALCPGGLCCSQYGWCGNTDPYCGQGCQSQC
SGSGGGGSVASISSLFEQMLKHRNDAACPGKGFYTYNAFIAAANSFSGFGTTGDDAKK
KREIAAFLAQTSHETTGGWATAPDGPYAWGYCFVQEQNPSDYCVASSQWPCAAGKKYYG
RGPIQISFNYNYPAGRAIGSDLLNNPDLVATDATISFKTALWFWMTQSPKPSCHDVT
GSWTPSNADQAAGRLPGYGVTTNIINGGLECGKGYDARVADRIGFYKRYCDLLGVS YGDN
LDCYNQRPFATAATATF

>AAL49391.1 Allergen Fel d 3; cystatin A [Felis catus]
MIPGGLSEAKPATPEIQEIANEVKPKLEEKTNETYQKFEAIEYKTQVVAGINYYIKVQVD
DNRYIHIKVFGLPVQDSSLTLTGYQTGKSEDELDTGF

>CAC83658.1 Allergen Cyp c 1; parvalbumin beta [Cyprinus carpio]
MAFAGILNDADITAALQGCQAADSFDYKSFFAKVGLSAKTPDDIKKAFVIDQDKSGFIE
EDELKLFQNFSAARALTAETKAFLKAGSDSDGDGKIGVDEFAALVKA

>CAC83659.1 Allergen Cyp c 1; parvalbumin beta [Cyprinus carpio]
MAFAGVLNDADITAALEACKAADSFNHKTFFAKVGLTSSKSAADDVKKAFIIDDQDKSGFIE
EDELKLFQNFKAGARALTDGETKTFLKAGSDSDGDGKIGVDEFTALVKA

>AAL47677.1 Allergen major Der f 2 isoform [Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPESENVVTVKLVGDNGVLACA
IATHAKIRD

>CAD20405.1 Putative group 5 isoallergen [Dactylis glomerata]
ADAGYTPAAAATPAAAGGKAMTEEQKLIEDVNAGFKAAVAAASSAPPADKFKTFEATFTA
ACKANIAAAAATKVPLFVAKLDAAYAVAYKTAAGPTPEAKYDAFVAALTEALRVIAGALEV
HAVKPAAEVPAAKIPAGELQIVDKIDAAYKIAATAANAAPANDKFTVFEGAFNKAIKES
TGGAYESYKFIPTLEAAVKQAYAATVAAAPEVKYAVFEAALTKAITAMSEAQKVATPAAA
ATGAATAAASAATGAATAAAGGYKV

>CAD20406.1 Allergen Group 1 allergen-like [Dactylis glomerata]
MASSSSSVLLVVALFAVFLGSAHGIPKVPPGPNITATYGDKWLDKSTWYGKPTGAGPKD
NGGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDN
EEPIAPYHFDLSGHAFGSMAKKGEEQKLSAGELELQFRRVKCKYPEGTKVTFHVEKGSN
PNYLALLVKYVDGDGDVVAVDIKEKGGDKWIALKESWGAIWRVDTPDKLTGPFTVRYTTE
GGTKSEVEDVIPEGWKADTSYEAK

>Q91483.3 Allergen Parvalbumin beta 2 (Major allergen Sal s 1) [Salmo salar]
MSFAGLNDADVAALAATAADSFNHKAFFAKVGLASKSSDDVKKAFYVIDQDKSGFIEE
DELKLFQNFSAARALTAETKAFLADGDKDGDGMIGVDEFAAMIKG

>CAC86258.1 Allergen Fra a 3; lipid transfer protein (LTP) type 1 [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPLTYVKSSGGAVPAACCSGIRNL
NGMAKTTADRQAACNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>AAL73404.1 Allergen Cor a 9; 11S globulin/ legumin like protein [Corylus avellana]
MAKLILVSFSLCLLVLFNGCLGINVGLRRQQQRVYFGECNLDRLNALEPTNRIEAEACQIE
SWDHNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQSQQQGQRQGGQSQQRSEQDRHQKIRHFREGDIILPAGVAHWCYNDGSDSPVTVSLL
HTNNYANQLDENPRHFYLAGNPDDEHQRRQQQQFGQRRRQQQSHHGEGEQEQEGENNV
FSGFDAEFLADAFNVDVDTARRLQSNQDKRRNIVKVEGRLQVVRPERSRQEWERQERQER
ESEQERERQRRQGGRRGRDVNGFEETICSLRLRENICTRSRADIYTEQVGRINTVNSNTLP
VLRWLQLSAERGLDQREGLYVPHWNLNAHSVYAIRGRARVQVDDNGNTVFDDELRRQQG
VLTIPQNFVAVAKRAESEGFVAVFKTNDNAQISPLAGRTSAIRALPDDVLANAFQISREE
ARRLKYNRQETTLVRSSSRSSSERKRRSESEGRAEA

>AAL75449.1 Allergen Sola l 2; beta-fructofuranosidase [Solanum lycopersicum]
MATQCYDPENSASRYTLLPDQPDSGHRKSLKIISGIFLSVFLLLSVAFFPILNNOQSPDLQ
IDSRPAPPSRGVVSQGVSDKTFRDVAGASHVSYAWSNAMLSWQRTAYHFQPQKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHA VSKDLIHWLYLPFAMVPDQWYDINGVWTGS
ATILPDGQIMMLYTGDTDDYVQVQNLAYPANLSDPLLLDWVKFKGNPVLVPPPVGIGVKDF
RDPTTAWTGPQNGQWLLTIGSKIGKTGVALVYETSNTSFKLLDGVLHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWTPDNPELDCGI
GLRLDYGKYYASKTFYDPKKERRVLWGWIGETDSESADLQKGWASVQSIPRTVLYDKKKTG
THLLQWPVEEIESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFSCTSSGGAASRGILGPFVVIADQTLSELTPVYFYISKGADGRAETHFCADQT
RFAFLSGTINLSL

>AAL75450.1 Allergen Sola l 2; beta-fructofuranosidase [Solanum lycopersicum]
MATQCYDPENSASRYTLLPDQPDSGHRKSLKIISGIFLSVFLLLSVAFFPILNNOQSPDLQ
IDSRPAPPSRGVVSQGVSDKTFRDVAGASHVSYAWSNAMLSWQRTAYHFQPQKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHA VSKDLIHWLYLPFAMVPDQWYDINGVWTGS
ATILPDGQIIMLYTGDTDDYVQVQNLAYPANLSDPLLLDWVKFKANPVLVPPPVGIGVKDF

RDPITAWTGPQNGQWLLTIGSKIGKTGVALVCETSNFTSFKLLDGVLHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWTDPNPELDCGI
GLRLDYGKYASKTFYDPKRERRVLWGWIGETDSESADLQKGWASVQSIPRTVLYDKKKTG
THLLQWPVEEIESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFSCSTSGGAASRGILGPFVVIADQTLSELTPVYFYISKGADGRAETHFCADQT
RSSEAPGVGKQVYGSVPVLDGEKHSMLLDVHDSIVESFAQGGRTVITSRIYPTKAVNGA
ARLFFVFNATGASVTASVKIWSLESANIQSFPLQDL

>AAL76932.1 Allergen Dau c 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Daucus carota]
MGVQKTEVEAPSTVSAEKMYQGFLDMDTVFPKVLPLIKSVEILEGDGGVGTVRLVHLG
EATEYTTMKQKVDVIDKAGLGYTYTTIGGDILVEGLESVVNQFVVVPTDGGCIVKNTTIY
NTKGDVAVLPEDKVKEATEKSALAFKAVEAYLLAN

>AAL76933.1 Allergen minor allergen Dau c 4 profilin [Daucus carota]
MSWQTYVDDHLMCEVDGNPQQLSAAAIGHDGSVWAQSSTFPKFKPEEITGIMKNFDEP
GHLAPTGLYLGGTKYMVIQGEPIAVIRGKKKSGGGVTIKKTGQALVFGVYDEPVTGQCENL
IVERLGDYLIQGL

>CAC37790.2 Allergen putative allergen Cup a 1 [Cupressus arizonica]
MASPCLVAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCVVGFGLTMGGKGGE
IYTVTSSDDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLQMPLYVAGYKTIDGRGADV
HLGNGGPCLFMRTASHVILHGLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHKVMMLGHDDTYDDDISMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDQWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANWVWRFRDAFTNGAYFVSSGKAEETNIYNSNEAFKVENGNAAAPQLT
QNAGVVT

>CAA09887.4 Allergen Mala s 9; unknown [Malassezia sympodialis]
MSNVIKKVFNTDKAEAEGSKVADAPQEAGHKGEGFLHDAKDRLOQFAGHGHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLAPVTRHVHHRHEIEELLREREHHIHQHHIQHHV
QPVVDEHLAEQIHSRVVPQTTVREVHANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGGVLTSTTRSIEEVGLLNLGNNQRTVEGETYTGGLPLSQ

>AAL86701.1 Allergen tropomyosin [Periplaneta fuliginosa]
MDAIKKKMAMKLEKDNAMDRALLCEQQARDANLRAEKAEFEARSLOKKIQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANLREEAYKQKIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLLEDELVHEKEKYKFCDDLDMTFTTELIGN

>AAL86739.1 Allergen Cor a 11; 7S globulin/ vicilin-like protein [Corylus avellana]
MLPKEDPELKKCKHKCRDERQFDEQQRDRDGKQICEEKARERQQEEGNSSEESYGKEQEEN
PYVFQDEHFESRVKTEEGRVQVLENFTKRSLLSGIENFRLAILEANPHTFISP AHFDAE
LVLFVAKGRATITMVREEKRESFNVEHGDIIIRIPAGTPVYMINRDENEKLFIVKILQPVS
APGHFEAFYGAGGEDPESFYRAFSWEVLEAALKVRREQLEKVFGEQSKGSIVKASREKIR
ALSQHEEGPPRIWPFGGESSGPINLLHKHPSQSNQFGRLYEAHPDDHKQLQDLDLMVSA
NITKGS MAGPYNSRATKISVVVEGEGFFEMACPHLSSSSGSYQKISARLRRGVVFA
GHPVAVIASQNNNLQVLCFEVNAHGNSRFPLAGKGNIVNEFERDAKELAFNLPSREVERI
FKNQDQAFFFPGNKQQEEGGRGGAFAE

>AAK27264.1 Putative isoflavone reductase-like protein CJP-6 [Cryptomeria japonica]
MGGSRVLIIGGTGYIGRHVTNASLAQGHPTFLVREITPSNPEKAQLLESFTSKGATLVQ
GSIDDHASLVAALKKVDVISTLGAPQIADQFNLIKAIKEVGTIKRFFPSEFGNDVDKHH
AVEPMKSMFDLKIKLRRTIEAEGIPHTYVPHCFAGYFLTNLAQLGLAAPPDRKIVYIGD
GTTKAVYMKEEDIGTFTIKA VDDPRTLNTLYLKPPANTISTNDLVALWEAKIGKTLEKV
YLSEEQVLKLLQDTPFPGTFMVSIFHTIYVKGDQTNFQIGPDGVEASALYPDVKYTTVEE
YISAFV

>AAL79930.1 Allergen Fus c 1; ribosomal protein P2 [Fusarium culmorum]
MKHLAA YLLGLGGNTSPSAADVKA VLTSVGIDADEDRLNKLISELEGKDIQQLIAEGSE

KLASVPSGGAGGASGGAAAAGGAAEEAKEEEEEKEEESDEDMGFGLFD

>AAL79931.1 Allergen Fus c 2; thioredoxin [*Fusarium culmorum*]

MVHHITSNDELQKLLSSTTYVVVDFADWCPPCKAIAPVYEQNSTKHSVPDVLAFKVNVDHVQDAAQQYGITAMPTFMFFKEGKQVAVNGQAVIKGADPRTLGA-AAEKLGGLAQKRVAG
A

>BAB88129.1 Allergen pathogenesis-related protein-like protein 1 [*Daucus carota*]

MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAFGAYKNVEIKGDGGVGTIKHITLPEGGPVTMTLRTDGLDKKNCTIDYSYIDGDILMGFIEKIENHLSVVPNADGGSTTKTTAIFHTKGDAVVPEENIKYAEEQNTMLFKAVEAYLIAN

>AAL25839.1 Allergen Hev b 12; lipid transfer protein (LTP) type 1 [*Hevea brasiliensis*]

MAALKMVSFLVLCMLVAAPMTAQAITCGQVQSALVPCLSYLKTGTPPATCCNGVRTINNAAKTTADRRTACQCLKSAAGSVKGLNPTTVAGLPGKCGVNIPIYKISLSTNCATVK

>P20347.3 Allergen Sola t 3; cysteine protease inhibitor [*Solanum tuberosum*]

MKSINILSFLLSSTLSLVAFARSFTSENPVLPPTCHDDDNLVLPEVYDQDGNPLRIGERYIINNPLLGAGAVYLYNIGNLQCPNAVQLQHMSIPQFLGEGTPVVFVRKSESDYGDVVRVMTVVYIKFFVKTTLKLCVDQTVWQVNDQLVVTGGKVGNNENDIFKIMKTDLVTPGGSKYVYKLLHCPSHLGCKNIGGNFKNGYPRLVTVDDDKDFIPVFIKA

>P02762.2 Allergen Major urinary protein 6 precursor (MUP 6) (Alpha-2U-globulin) (Group 1, BS6) (Allergen Mus m 1) [*Mus musculus*]

MKMLLLLCLGLTLCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFLEQIHVLENSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKERFAQLCEEHGILRENIIDLSNANRCLQARE

>AAM21322.1 Allergen Der p 14; apolipoprotein B [*Dermatophagoides pteronyssinus*]

LLTACLLGLGQAQHCEVACPRISQILINPKAQSTYVYSLDAKTVLTTPRDSQKVTIKGDAE
VAFVSDCEAVLRLQNVADGVPNGAELAAELAAKPFAGYFNIRILGVCPPADDDQDWSLNVKKAIVSSLQALSDGNVEKAEIDFSGRCPTEYRKIRSQDDNTVVIEKRKDLNLCDRRRIDLRQTPDQALGQLKELMRHYMHPMDSDLSCRMTLKDQVVEVDCEERHVLVHRSNKPVHMSYVKMMLKQNKDGVAAADLGPNAQPKRPYLSFDHKHKNPTETDVVEVLKCLCEITEPQASietsftfQKLVDKLRYSAEETASVDES VKTSVCPAHARLRELFLDASAFASDGSIRTLVKAHENQELSITRSTALFTVAAIKAAPNKETVQVLLPVIASEKTIRPMLLGFVSVLVRRYCEKTNDCATNSGVKDARDAYLARLAVARDASERMTIVRALENLNVNTDGVNDMNVNAMDEIHKSTDAEPAMRAAAVNALPNDASHMDRYKSLVMDESMPEARIAAFQKMMKNGGMSHIKDLFAVKGECMKNYVLTLYVDNLKSKNDLRRQTVGEDVELPEKPKREIGITRNIAREYGPYTFEYDVIYPETHENVTRSRINGRLIRSKNDQLKELVEFQVTQSGFDRELNNAMSLLEKKSQSVMQFLRDMLKMLSQIRKNADDNHHMKITVQINGKNVYFTDLFQDTKKMKELLMKRVEKIINDKKVDRSIGGVLLDSKLVLPTITGLPLMYKFGDNLVVRVDGFEFSGEKGDRNIRMNGGVVAGLYGKMMLMVKDHKMGYEYDAKASYTPMIDMNVQKQEHSLVRFNMKMDMDQHTVMRFKQSLREKRATGEEKDYENEITPDARSDFCSFFLLDYCRKASHIKGLMLPNVEYVVKPEKEVTALELMLKSETQDKTRRYIAEMTAVGSPSNKQAKAELEVTKGEQYRVSVKLPEHEFNTEFTINADKNNLKMMDLPNVLQADLTGSFEHDKENNRKNRNLNLQYKFAGDEKPTVDYENEFLFNLKRSSKEKNSAVEYRAKYMSSHFPILNHKVVNQFKYRPFKVNELNLEGEFGRELQHKFRLMRNSQMEVEEVRPFKMHGNSDIKLMANDLIDYDLKSEFKYESNKGTPIELQYKVSQKDRSKRAAEMNAEDVEGVYDYKNSGSPIDSKMHAHLKVKGNNGYDSELKQTEPQQYEGKMTLSKNDKKIFITHKTEMTKPTSTFLLKTDADVSYSESDMKKHYYHMEFKKENDIYTLRSTVERDQGLFYENYLVHKGKGLNLNRRNDRKILLDLNALSREGTMKLNKIDREYNFVLKRDPMRYRDITVEGNENAYVKNGKHLHLSLIDPSTLSLVTKADGQIDMTVDLISPITKRASLKVDSKKYNLFEHGESASLVNPRLSWHQYTKRDSREYKTDVDLSLRSSDIKAVKITMPDYNSKIHYSRQNDQISMDIDGTLIEGHAKGTIKEGKIHIGRQSDFEIESNYRYEDGKMLIEPVKSENGKLEGVLSRKVPSHLTLETPRVKMNMQYDRHSPVKMFKLDYDGIHLEKHTDLLYEPGVQYKIIIGNGKIKDDGSHYSIDIQGKPRKAFKLDADMMNFKLVNKPEDSNKAQFSYTFNDYTETEEYEFDPHRAYYINWISSIRKYIQNFIVEDH

>CAC84590.2 Allergen Lep s 1; tropomyosin [*Lepisma saccharina*]

MEAIKKKMAMKLEKDNAMDKADALEAQARDANRKADKILEEVQDLKKKPSQVETDFTTTKENLATANKNLEDKEKTLTNTSEVASLNRKVQMIEENLERSEERLGTALTKLGEASHAA

DEASRMCKVLENRSQQDEERMDQLTNQLKEARMLAEDADGKSDEVSRKMAQVEDDLEVAE
DRVKS GDSKIMELEEELKVVGNLSLKSLEVSEEKANQRVEEYKRQIKTLTVKLKEAEARAE
YAEKYVKKLQKEVDRLLEDELGINKDRYRALADEMDQTFaelSGY

>CAC84593.2 Allergen tropomyosin [*Lepisma saccharina*]

MEAIKKKMqAMKLEKDNVDRARQNEQEAKDANLRAEKAE EEARSLQKKIQTIENELDQT
QEQLMQVNAKLEEKDQALQNAESEVAALNRRIQLLEEDLERSEERLATATQKLAEASQAA
DESERM RKVLENRSLADEERMDALENQLKEARFLAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNLKSLEVSEEKANQRE EYKQIKTLTTRLKEAEARAC
WLL

>CAC83046.1 Allergen Ran e 1; parvalbumin alpha [*Rana esculenta*]

MPMTDLLAAGDISKAVSAFAAPESFNHKKFFELCGLKSKSKEIMQKVFHVLDQDQSGFIE
KEELCLILKGFTPEGRSLSDKETTALLAAGDKDGDGKIGVDEFVTLVSES

>CAC83047.1 Putative parvalbumin alpha [*Rana* sp. CH-2001]

MPMTDVLAAACDISKAMAAPFAEPFNHKKFFELCGLKSKSQDDMKKVFHMLDKDQSGFIE
KDELALILKGFTPEGRDLSKETTALLAAGDKDGDGKIGVDEFVTLVSEC

>CAC95152.1 Allergen Ran e 2; parvalbumin beta [*Rana esculenta*]

MSITDIVSEKDIDAALSVKAAGSFNYKIFFQKVGLAGKSAADAKKVFEILDRDKSGFIE
QDELGLFLQNFRASARVLSAETS AFLKAGDSGDGKIGVEEFQALVKA

>CAC95153.1 Putative parvalbumin beta protein [*Rana* sp. CH-2001]

MSITDIVSEKNIEAALSVKAAGSFNYKIFFQKVGLAGKSADDAKKVFEILDRDKSGYIE
KDELCLFLQNFKSSARALNDAETS AFLKAGDSGDGKIGVEEFQALVKA

>AAM33821.1 Allergen alkaline serine protease [*Penicillium chrysogenum*]

MGFLKLLSTSLATLAVVNAGKLLTANDGDEVVPSYIVVMNDGVSTAQFETHRNWAANVH
ARTRSLKGGESGPGKHF DINGMKGYSASFDDRTVKDIASDPTVKYVEPDMVNVNATANVVQ
RNAPSWGLSRIS SKSGATDYVYDSTAGEGIVYGVDTGIDIGHADFGGRAEWGTNTADN
DDTDGNHGHGHTASTAAGSKFGVAKKASVAVKVLGADGSGTNSQVIAGMDWAVKDSKSR
GATGKSVMNMSLGGAYS RAMNDAAANVVRSGVFLSVAAGNEAQDASNSSPASAPNVCTIA
ASTNSDGSASFTNFGSVVDLYAPGKDITAAYPGGGSKTLSGTSM AAPHVAGAAAYLMALE
GVTSDKACARIVELAISSISSAPSGTTSKLLYNGINAQ

>CAD32313.1 Putative Lep D 2 precursor [*Lepidoglyphus destructor*]

MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRGKMTLEAKFAANQ
DTAKVTIKVLT KVAGTTIQVPGLET DGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAE LIGDHGVMACGTVHGQVE

>CAD32314.1 Putative Lep D 2 precursor [*Lepidoglyphus destructor*]

MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLET DGCKVLKCPVKKGEALDFNYGMTIPAITPKIKVDV
TAE LVDHGVMACGTI HGQVE

>AAM43909.1 Allergen Asp f 23; L3 ribosomal protein [*Aspergillus fumigatus*]

MSHRKYEAPRHGSLAFLPRKRAARHRGKVKSF PKYDPKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWKYKSKKAFTKYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPLKQKKAHLM
EIQVNGGSVADKVD FARNLFEKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTTKLP
RKTHKGLRKVACIGAWHPSHVQWTVARAGQMGYHHRTSCNHKVFRIGKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKN DYIMVKGSPGVKKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPEEKRAF MGTLKKDLVTSA

>AAM46958.1 Allergen allergen Ara h3/Ara h4 [*Arachis hypogaea*]

MGKLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQGR
RHQSQRPPRRFQGDQSQQQQDSHQKVHRFDEGLIAVPTGVAFW MYNDHDTDVVAVSLT
DTNNDNQLDQFPRRFNLAGNHEQEFLRYQQSRRRSLPYS PYSPTQPKQEDREFSPRG
QHGRRERAGQE QENEGGNIFSGFTPEFLAQAFQVDDRQILQNL RGENESDEQGAIVTVRG
GLRILSPDRKRRQQYERPDEEEYDEDEYEYDEEERQQDRRRGRGRSGNGIETICTA
SFKKNIGRNRSPDIYNPQAGSLKTANELQLNLLILRWLGLSAEYGNLYRNALFVPHYNTN
AHSIIYALRGRAHVQVVD SNGDRVFDEELQEGHVLVVPQNFAVAGKSQSENFEYVAFKTD

SRPSIANLAGENSFIDNLPEEVVANSYGLPREQARQLKNNNPFKFFVPPSEQSLRAVA

>CAD10390.1 Allergen Pho d 2; profilin [*Phoenix dactylifera*]

MSWQAYVDEHLMCEIDGHHLTAAAILGHDGSVWAQSSSFPQFKSEEITNIMNDFNEPGSL
APTGLYLSTKYMVIQGEPGA VIRGKKGSGGVTVKKTNQALIFGIYEPMTPGQCNMVVE
RLGDYLIEQGM

>1KTJ_A Allergen Chain A, X-Ray Structure Of Der P 2, The Major House Dust Mite Allergen [*Dermatophagoides pteronyssinus*]

SEVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>AAM55492.1 Putative allergenic-related protein Pt2L4 [*Manihot esculenta*]

MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPA VEPVAEEPKEAEPVAVSEEPKEADD
APAEVAVETKEVVEVEEAKTVTEEPTVEKTEEEEEETPKEETPEPVVVKETPKEEPAETV
VVEAPKETTEAATEAEAPAPESAPASASETPAEVEVPKEEEGDEKKSEAEVEAEKTE

>AAM64112.1 Putative gelsolin-like allergen Der f 16 [*Dermatophagoides farinae*]

MAAHDKNFDVIPIGHTFFFIWRIKQFELVPVPKEDYGKFKYKGDICYIVACCTENPTGGHSHK
MESKPILNGHGYCHIFWIGSESTKDEAGVAAIKSVELDDFLGGYPVQHREIEEFESRQF
SSYFKNGIILKGGYESGFTKMIDELKPSLLHVKGKKRPIVYECAEISWKVMNNGDVFIL
LVPNFVFWWTGKHSNRMERTTAIRVANDLKSELNRFKLSSVILEDGKEVEQTSGAEYDAF
NKALSLDKKIDLDKQMPKGYDYAASDKSFESHRSFVTLKCFEGTETIDISFVKNGLS
RADLDTNDTFIVENGSEGLVWVWGKATQKERQSAIKYAMELINKKKYPNNTPVTKVLEG
DESVEFKSLFESWQMSEQEKITSARLFRVSRNGIFKQVANYEPDDLEEDNIMILDVMDKI
YVWIGNQFAERIADEAHVDKVAQRFIQEDKSGRKFQPNQIIKLKQGSDEGAFKSYFPKWN

>AAM73729.1 Allergen Ana o 1; 7S globulin/ vicilin-like protein [*Anacardium occidentale*]

PPTKFSFSLFLVSVLVLCLGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVCKECEKYYK
EKKGREEREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQKQLCRFCRQER
YKKERGQHNYKREDEDEDEDEAEEDENPYVFEDEDFTTKVKTEQGKVVLLPKFTQKSK
LLHALEKYRLAVLVANPQAFVVP SHMDADSIFFVSWGRGTITKILENKRESINVRQGDIV
SISSGTPFYIANNDENEKLYLVQFLRPVNLPGHFVVFHGGGENPESFYRAFSWEILEAA
LKTSKDTLEKLFQDQGTIMKASKEQVRAMSRREGGPKIWPFTTEESTGSFKLFKKDPSQ
SNKYGQLFEAERIDYPPLEKLDMVVSYANITKGGMSVPFYNSRATKIAIVVSGEGCVEIA
CPHLSSSKSSHPSYKCLRIRKDTVFIVPAGHPFATVASGNENLEIVCFEVNAEGNIRY
TLAGKKNIIKVMKEKAKELAFKMEGEEVDKVFVGKQDEEFFQGPPEWRKEKEGRADE

>CAD32318.1 major allergen d 1 [*Malus domestica*]

GVYTYENEY TSEIPPPRLFKAFLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFGE
GSQYGYVKHKIDSVDANYSYAYTLIEGDALTDTIEKVS YETKLVASGSGSIIKSISHYH
TKGDVEIMEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>CAD38361.1 Allergen Cysteine protease-like [*Dermatophagoides pteronyssinus*]

TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYRYVAQE QSCRPNARFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38362.1 Allergen Cysteine protease-like [*Dermatophagoides pteronyssinus*]

TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQIEYIQHNGVVQESYRYVAEEQSCRPNARFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38363.1 Allergen Cysteine protease-like [*Dermatophagoides pteronyssinus*]

TNACSINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQIEYIQHNGVVQESYRYVAQE QSCRPNARFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38364.1 Allergen Cysteine protease-like [*Dermatophagoides pteronyssinus*]

TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ

ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTTHSAIAVIIGIKDLDAFRHYDGQTIIQQDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38365.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTTHSAIAVIIGIKDLDAFRHYDGQTIIQQDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38366.1 Allergen Cysteine protease-like protein product [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38367.1 Allergen Cysteine protease-like protein product [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMOTVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTTHSAIAVIIGIKDLDAFRHYDGETIIQEDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38368.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEQSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38369.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38370.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEQSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38371.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
>CAD38372.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIRD
>CAD38373.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIQD
>CAD38374.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LEVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD
>CAD38375.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSKTAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38376.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGSEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCLVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38377.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCLVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38378.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCLVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIRD

>CAD38379.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCLVNGQQYDIKYTWNVVKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38381.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LEVDPGIDPNACNYMKCLVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38382.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGSEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCLVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38383.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCLVNGQQYDIKYTWNVVKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38384.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIKPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAAATATATAAVGAATGAATAATGGYKV

>CAD38385.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIKPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAAATATATAAVGAATGAATAATGGYKV

>CAD38386.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIKPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAAATATATAAVGAATGAATAATGGYKV

>CAD38387.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSEALRKIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIKPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAAATATATAAVGAATGAATAATGGYKV

>CAD38388.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIKKNAGFKAALAAAAGVP

PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFND AIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38389.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFND AIKASTGGAYESYKFIPALEAAVKKAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38390.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFND AIKASTGGAYESYKFIGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38391.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFND AIKASTGGAYESYNFIPALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38392.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFND AIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38393.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSEALRKIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFND AIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38394.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFND AIKASTGGAYESYKFIGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38395.1 Allergen Group 5 allergen-like [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFND AIKASTGGAYESYNFIPALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38396.1 Allergen Group 5 allergen-like [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGAAESSKAALTSKLDAA YKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFND AIKASTGGAYESYKFIGALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAK PAAAATATATAAVGAATGAATAATGGYKV
>CAD38397.1 Allergen Group 5 allergen-like [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEE QK LIEKKNAGFKAALAAAAGVP

PADKYRTFVATFGAASNKAFAEGLSGEPKGA AESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPA AAAATATATAAVGAATGAATAATGGYKV

>CAD38166.1 putative nuclear transport factor 2 [*Cladosporium herbarum*]

MSDFNAIAQQFTEFYKTFDTRDRAQLAPLYRENSMLTFEQSPFLGTANIVGKLQELPFQR
IEHQVATVDAQPSNESGGILVVVSGALLVEEERRPMSYQTQTFQLLPADGAYYVFNDVFR
LYPAA

>CAD38167.1 Allergen putative nuclear transport factor 2 [*Alternaria alternata*]

MSDFNAIAQQFVEFYKTFDGNRAGLGALYKEHSMLTFEAQGTQGSAAIVEKLNLPFQE
IQHRTDTVDAQPSADDGILVLTGALLLGGESKPMSFTQAFQLKNAEGNWFVLDVFR
LYPAA

>CAC84116.1 Allergen Bet v 7; cyclophilin [*Betula pendula*]

MASNPKVFFDMEVGGQPVGRIVMELYADTTTPRTAENFRALCTGEKGNRSGKPLHYKKSS
FHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPGTNGSQF
FICTAKTEWLDGKHVVFGQVVEGLDIVKAIKVGSSSGRTSKPVVADCGQLS

>AAM77471.1 Allergen major allergen alt a1 [*Alternaria alternata*]

MQFTTIASLFAAAGLAAAAPLESRQDNASCPVTTKGDYVWKISEFYGRKPEGTYYNLGF
NIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMDFSFSDSDRSGLLLKQKVSDE

>AAM73730.2 Allergen Ana o 1; 7S globulin/ vicilin-like protein [*Anacardium occidentale*]

MGPPTKFSFSLFLVSVLVLCGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVCKECEKY
YKEKKGREREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQKQLCRFRCQ
ERYKKERGQHNYKREDEDEDEDEDEAEEDENPYVFEDEDFTTKVKTEQGKVVLLPKFTQK
SKLLHALEKYRLAVLVANPQAFVVP SHMDADSIFFVSWGRGTITKILENKRESINVRQGD
IVSISGTPFYIANNENEKLYLVQFLRPVNLPGHFV FHGPGGENPESFYRAFSWEILE
AALKTSKDTLEKLFKQDQGTIMKASKEQIRAMSRREGGPKIWPFTTEESTGSFKLFKKDP
SQSNKYGQLFEAERIDYPPLEKLDMVVSYANITKGGMSVPFYNSRATKIAIVVSGEGC
VEIACPHLSSSKSSHPYKCLRIRKDTVFIVPAGHPFATVASGNENLEIVCFEVNAEGNI
RYTLAGKKNIIKVMKEKAKELAFKMEGEEVDKVF GKQDEEFFQGPWRKEKEGRADE

>AAM83103.1 Allergen Blo t 11; paramyosin [*Blomia tropicalis*]

MAARSAKYMYQSSRAGHGDISIEYGTDLGALTRLEDKIRLLSEDLERELRQRVEREK
SDITVQLMNLTERLEETEGSSES VTEMNKKRDSSELAKLRKLLLEDVHMESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDKEKQKFQAEVFELLAQVETANKDKLVAQKTVEKLEYTV
HELNIKIEEINRTVVEVTAHRQRLSQENSELIKEVHEYKISLDNANHLKGQIAQQLEDTR
HRLEDEERKRSSLENHAHTLEVELESLKVQLEEESEARLELERQLTKANGDAASWKS
KYE AELQAHVDEVEELRRKMAQKISEYGEQLEALLNKCSALEKQKARLQSEVEVLIM
DLEKAT AHAQALEKRVSQLEKINLDLKS KLEEVSMLEQTQKDLRVKIADLQKLQHE
YEKLRDQKE ALARENKKLADDLAEAKSQLNDAHRIHEQEIEIKRLENEREELAAAYKEA
ETLRKQEEA KNQRLTAELAQTRHDYEKRLAQKEEEIEALRKQYQIEIEQLNMRLAEAE
AKLKTEVARLK KKYQAQITELELSLDAANKANIDLQKTIKKQALQITGLQAHYDEVHR
QLQQA V DQLGVTQ RRCQALTAELEEMRVNLEQALRAKRAAEQMHEEA VVRVNELTT
INVN LASAKSKLETEFS ALQNDYDEVHKELRISDERVQKLTIEVKSTKDLLESETER
VTKLETIKKSLETEVRNLQI RIEEVEANALAGGKRVIAKLESRIRDVEIEVEEERRR
HAETEKMLRKKDHRVKELLQNE EDHKQIQLLQEMSDKLNEKVKVYKRQMQEQEGMS
QQNLTRVRRFQRELEAAEDRADQAES NLSFIRAKHRSWVTTSQVPGGTRQVFVTEQ
ESSNF

>P81430.2 Allergen Pollen allergen Ole e 7 (Ole e VII) [*Olea europaea*]

APSQSTVTALLTSCVSYIDDQ

>AAL07319.1 Allergen Che a 1; Ole e 1 -like protein/ trypsin inhibitor [*Chenopodium album*]

MAKCQAVFLLVGALCVLSLAGVANAAENHFKVQGMVYCDTCRIQFMTRISTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLTSNNGEASDIRSANALGFMRKEPLKECPEVLKELDLYDVKAN

>AAM93157.1 Allergen trypsin inhibitor [*Arachis hypogaea*]

NYLHMLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNP
NNQEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQ

GRRHQSQRPPRRFQGGQDQSQQQQDSHQKVHRFDEGDLIAVPTGVAFWMYNDHDTDVVAVS
LTDTNNDNQLDQFPRRFLNAGNHEQEFLRYQQQSRRRS

>BAC10663.1 Allergen Can f 3; serum albumin [Canis familiaris]

MKWVTFISLFFLFSSAYSRLVRREAYKSEIAHRYNDLGEHFHFRGLVLFVAFSQYLQQCPF
EDHVKLAKEVTEFAKACAAEESGANCDKSLHTLFGDKLCTVASLRDKYGDMADCCEKQEP
DRNECFLAHKDDNPGFPPLVAPEPDALCAAFQDNEQLFLGKYLVEIARRHPYFYAPEL
YAQQYKGVFAECCQAADKAAACLGPKIEALREKVLSSAKERFKCASLQKFGDRAFKAWSV
ARLSQRFKADFAEISKVVTDLTKVHKECCHGDLLECADDRADLAKYMCENQDSISTKLLK
ECCDKPVLEKSQCLAEVERDELPGDLPSLAADFVEDKEVCKNYQEAKDVFLGTFLYEYAR
RHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFE
KLGEYGFQNALLVRYTKKAPQVSTPTLVEVSRKLGKVGTKCCKKPESERMSCAEDFLSVV
LNRLCVLHEKTPVSEVTKCCSESLVNRPCFSGLEVDETYVPKEFNAETFTFHADLCTL
PEAEKQVKKQATALVELLKHKPKATDEQLKTVMGDFGAFVEKCCAAENKEGCFSEEGPKLV
AAAQAALV

>CAD42710.1 hydrophobin [Cladosporium herbarum]

MAFIKSLLIASVAAVAFAPQGGASDNNKKVEIDGQDSAPVCGNGQKVACCNSGEDLIGL
NCLSIPIAIIQKACGSNIAACCQTGDSEGNLLNLEANCLAIP

>AAN32987.1 Allergen pollen allergen Phl p 11 [Phleum pratense]

DKGPGFVVTGRVYCDPCRAFETNVSHNVQGATVAVDCRPFNGGESKLKAEATTDGLGWY
KIEIDQDHQEEICEVVLAKSPDTCSEIEEFRDRARVPLTSNNGIKQQGIRYANPIAFFR
KEPLKECGGILQAYDLRDAPETP

>BAC19997.1 allergen RA5B precursor [Oryza sativa Japonica Group]

MASNKVVFSVLLLA VVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMYPLPRCRA
LAKRQCVGRGTAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMSEV
FRGCRRGDLERAAASLPAFCNVDIPNGGGGVCYWLARSGY

>BAC20650.1 putative allergenic protein [Oryza sativa Japonica Group]

MAFIKVVFSVLLPVVVSMLVATTTMADHRGQVVYTPGQLCAAGRGYPMYPLPRCRA
LAKRQCAGGAVDEQVRQDCCRQLAAIDDSFCRCPALSHMLVGMYKELGAPAKGQPMDE
VFPGCRGDMKRVAASLPAFCNVDIPIGIGGVCYWLSYPMNPATGH

>BAC20657.1 allergen RA16 [Oryza sativa Japonica Group]

MASNKVVISALLVVVSVLAATTTMADHHQEQQVVYTPGQLCQPGIGYPTYPLPRCRA
FVKRQCVAPGTVDEQVRRGCCRQLAAIDSSWCRCDALNHMLRIIYRESGAADAGHPMAE
VFRGCRRGDIERAAASLPAFCNVDIPNGVGGVCYWLPGTGY

>CAD23374.1 Allergen tri s 4 allergen [Trichophyton schoenleinii]

MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLNLKNGDISVLTTDSDVSEITWLGDKTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAAGDKINFGYQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWDT
YVGTQFNNAVFSGLTKNGDKYSFDGKLNLVQPVKYAESPYPPFGGSGDYDLSSDGKTV
AFMSKAPELPKANLTTSYIFLVPHDGSRVAEPINKRNGPRTPOGIEGASSPVFSPDGKRI
AYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWSSDGRTLYVTAEDHAT
GKLFITLPADARDNHKPSVVKHDGSVSSFYFIGSSKSVLISGNSLWSNALYQVATPGRPNR
KLFYANEHDPKGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIQGQDLGRKFKALVSHDGTFFVGSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNSDFRLSVAEGVGLFNLVQEKG
IPSRFLNFPDETHWVTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVIDHEA
HSYFDY

>CAD23611.1 Allergen tri m 4 allergen [Arthroderma benhamiae]

MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLNLKNGDISVLTTDSDVSEITWLGDKTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAAGDKINFGYQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWDT
YVGTQFNNAVFSGLTKNGDKYSFDGKLNLVQPVKYAESPYPPFGGSGDYDLSSDGKTV
AFMSKAPELPKANLTTSYIFLVPHDGSRVAEPINKRNGPRTPOGIEGASSPVFSPDGKRI
AYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWSSDGRTLYVTAEDHAT

GKLF TLPADARDNHKPSVVKH DGSVSSFYFIGSSKSVLISGNSLWSNALYQVATPGRPNR
KLFYANEHDP E LKGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGMVNWIQGQDLGRKFKALVSHDGT FVGS SKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHND FDFRLSVAEGVGLFNVLQEKG
IPSRFLNFPDETHWVTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVIDHEA
HSYFDY

>CAD23613.1 Allergen tri m 2 allergen [Arthroderma benhamiae]

NHDDVDYIEPDFVVRTSTNGTNLTRQENVPSWGLARVGSKKAGGTTYYYDSSAGKGVTAY
IIDTGIDINHEDFGGRAK WGKNFVDKMEDECNGHGHVAGTVGGTKYGLAKGVTLVAVKV
LDCDGS GSN SGVIEGMEWAMREASGGGNGTAKAAGKAVMNMSLGGPRS QASNDAAKAISD
AGIFMAVAAGNENMDAQHSSPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITS
LKPGGSTDTLSGTSMASPHVCGLGAYLIGLGKQGGPGLCDTIKEMANEAIQR

>CAD23614.1 Allergen tri m 2 allergen [Arthroderma benhamiae]

FITKAIPVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTTWLSQNLN
RRLMRRSGSSKAMAGMQNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNLTRQENVPSWGLARVGSKQAGGTTYYYDSSAGKGVTAYVIDTGIDIEHEDFGGRAK
WGKNFVDQRDEDCNGHGHVAGTVGGTKYGLAKSVSLVAVKVLDCDGS GSN SGVIRGMEW
AMREASGGNGTAKAAGKSVMNMSLGGPRS QASNDAARAISEAGIFMAVAAGNENMDAQHS
SPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMASPH
VCGLGAYLIGLGKQGGPGLCDTIKQMANEAIQRPGE GTTGKLIY

>P00630.3 Allergen Phospholipase A2 precursor (Phosphatidylcholine 2-acylhydrolase) (Allergen Api m 1) (Api m I) [Apis mellifera]

MQVVLGSLFLLLLSTSHGWQIRDRIGDNELEERIIYPGTLWCGHGNKSSGPNELGRFKHT
DACCRTHDMCPDVMSAGESKHGLTNTASHTRLSCDCDDKFYDCLKNSADTISSYFVGKMY
FNLIDTKCYKLEHPVTGCGERTEGRCLHYTVDKSKPKVYQWFDLRKY

>AAL91662.1 Allergen Pru du 4; profilin [Prunus dulcis]

MSWQQYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKY MVIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>AAL91665.1 Allergen Ana o 3; 2S albumin [Anacardium occidentale]

MAKFLLLLSAFVLLLVANASIYRAIVEVEEDSGREQSCQRQFEEQQRFRNCQRYVKQEV
QRGGRYNQRQESLRECCQELQEVD RRCRCQNLEQMVRQLQQEQIKGEEVRELYETASEL
PRICISPSQGCQFQSSY

>P83340.1 Allergen Major allergen Epi p 1 (Epi n I4625) [Epicoccum nigrum]

ADGIVAVELDTYRGSFXK

>BAC23082.1 Allergen allergen Cry j 2 [Cryptomeria japonica]

MAMKFIAPMAFVAMQLIIMAA AEDQSAQIMLDS DIEQYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRITWQGGSGMASHIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDV TYKNIRGTSATAAAIQLKCSDSMPCKNINLSDISLKLTS GKIASC LNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>BAC23083.1 Allergen allergen Cry j 2 [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAVEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGS KKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRITWQGGSGMASHIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDV TYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTS GKIASC LNDNANGYFS

GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAC23084.1 Allergen allergen Cry j 2 [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNLRIKTWQGGSGMASHIYENVEMINSENPIILNQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>P83181.1 Allergen RecName: Full=Pollen allergen Sal k 1; AltName: Allergen=Sal k 1 [Salsola kali]
PTITIGGPEYRTIFFDAYLGTSYVIVIKEPAEEFTTISDAVK

>P83332.1 Allergen RecName: Full=Thaumatococcus-like protein 1; AltName: Full=PpAZ44; Flags: Precursor [Prunus persica]

MMKSQAALLGLTTLAILFFSGAHA AKITFTNKCSYTVWPGTLTGDQKPQLSLTGFE LATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMSVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDG SVIAC
KSACLA FNQPKYCCTPPNDKPETCPPPDYSKLFKTKCPQAYSYAYDDKSSTFTCSGRPAY
LITFCP

>P83335.1 Allergen RecName: Full=Thaumatococcus-like protein 2; AltName: Full=PpAZ8; Flags: Precursor [Prunus persica]

MMKTLGAVLSLSLTLLSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFE LASQASFQ
LDTPVPSGRFWARTRCSTDASGKFCETADCD SGQLMCMGKTGIPPATLAEFTIAAGGG
QDFYDVSLVDGFNLPMSVTPQGGTGCKMGSCAANVNLVCPSELQKIGSDGSV VACL SAC
VKFGEPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYS YAFDDNKGLFTCSGGPNYLITF
CP

>P83377.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Pol g 5) [Polistes gallicus]
NDYCKIKCSSGVHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKKLIVEEHNRFRQKVAQG
LETRGNPGPQPAASN MNLVWNDEQAKIAQVWASQCQILVHDKCRNTEKYQV GQNIAYAG
SSNHFP SVTKLIQLWENEVKDFNYNTGITNKNFGKVGHYTMVWGN TKEVGCGLSKYVEK
NMKIHYLICNYGPAGNYLGQPIYTKK

>AAN73248.1 Putative helix-loop-helix protein [Fusarium culmorum]

MAGDHAGDQSFYDFLIEPEMIAPTPPGQFP HQPQPISSPNRTRSRNTPLRPESTEIETHHH
ANHPPALPVLGMQLPVP GTVPESRAQSRASLNDIDLHAPSHPSHLSHGAPHEQEHA
HEIQRHRAHSAQSSAGLPPTGFASHLPPASSGPVSLGWNMYHVPPNLHLNANQFNFEVPG
HMNVSGHPTHLEHSSTNPNSFH YEHNIVSPSSIH PSTAHFDGEVPSQWDDSLGHGASTPK
VRTPSHHVSSNPWAEINEPTGGDNDNLAPVTRPRKPARARRQKKEPRKLS DASQGARSSS
TGGAHSVSDAASPSSTSHQSRASLTSKSASMTSAASTASSRKS KLRSASRTSKNTLDKP
NDTAEDRRTRASHNLVEKQYRNRLNAQFESLLHALPEQIRHGDN GGGNGNV DNESEQAND
LDRRVSKGEVLEMARRHIEALERERNQLGT

>CAD12861.1 Allergen Art v 4; profilin [Artemisia vulgaris]

MSWQTYVDDHLMCDIEGTGQHLTSA AIFGTDGT VWAKSASFPEFKPNEIDAI IEFNEAG
QLAPTGLFLGGAKYMQGEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQC NMV
VERLGDYLLDQGM

>CAD12862.1 Allergen Art v 4; profilin [Artemisia vulgaris]

MSWQTYVDDHLMCDIEGTGQHLTAAAILGLDGT VWAKSDFPEFKPEEMKGIINEFNEVG
TLAPTGLFLGGAKYMLQGEAGAVIRGKKGAGGICIKKTGQAMVMGIYDEPVAPGQC NMI
VERLGDYLV DQNM

>AAM10779.1 Allergen Blo t 3; trypsin [Blomia tropicalis]

MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVGGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAAHCIQGLSASSLTTRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQA IKLPEQGS DPKASSEVLITGWGTLSSGASSLPTKLQKVTVP

IVDRKTCNANYGAVGAEITDNMFCAGILNVGGKDACQGDSGGPVAANGVLVGA VSWG YGC
AQAKYPGVYTRVGN YISWIKGKGV PV

>AAN76862.1 Allergen allergen Ana 0 2 [*Anacardium occidentale*]
LSVCFLILFHGCLASRQEWQQQDECQIDRLDALEPDNRVEYEAGTVEAWDPNHEQFRCAG
VALVRHTIQPNGLLLPQYSNAPQLIYVVQGEGMTGISYPGCPETYQAPQQGRQQGQSGRF
QDRHQKIRRFRRGDIIAIPAGVAHWCYNEGNSPVVTVLLDVSNSQNQLDRTPRKFHLAG
NPKDVFQQQQHQSRGRNLFSGFDTELLAEAFQVDERLIKQLKSEDNRRGGIVKVKDDELRL
VIRPSRSQSERGSESEEESEDEKRRWGQRDNNGIEETICTMRLKENINDPARADIYTPEVG
RLTTLNSLNLPLKWLQLSVEKGVLYKNALVLPHWNLNSHSIIYGCKGKGQVQVVDNFGN
RVFDGEVREGQMLVVPQNFVAVVKRAREERFEWISFKTNDRAMTSPLAGRTSVLGGMPPEEV
LANAFQISREDARKIKFNNQQTTLTSGESSHHMRDDA

>CAD20556.1 Allergen Pla a 1; invertase inhibitor [*Platanus x acerifolia*]
MKLSFSLCIIFFNLLLLLQAVISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHTAD
LQGLGVISANLAIHQHSGKIQTFIGRILKSKVDPALKKYLND CVGLYADAKSSVQEAIA DF
KSKDYASANVKMSAALDDSVTCEDGFKEKKGIVSPVTKENKDYVQLTAISLAITKLLGA

>AAN77576.1 Allergen allergen Ara h 2.02 [*Arachis hypogaea*]
MAKLTILVALALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSY
GRDPYSPSQDPYSPSQDPDRDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRCEMCEA
LQIMENQSDRLQGRQQEQFKRELRNLPQQCGLRAPQRCDLEVESGGRDRY

>AAN86249.1 Putative recombinant Ib pronapin precursor [*Brassica napus*]
QPQKCQREFQQEQHLRACQQWIRQQLAGSPFSENQWGPQQGPSLREQCCNELYQEDQVCV
CPTLKQA AKSVRVQGGHGFQSTRIYQIAK NLPNVCNMKQIGTCPFAI

>AAO15607.1 glutathione S-transferase [*Sarcoptes scabiei*]
MSSKPTLGYWDLRGLGQSIRILLTYAGVDFVDKRYKIGSAPDFDRGEWLNDKFNGLDFP
NLPYYIEGDVKL TQSIAILR YLGRKHKLDGQNEQEWRITLCEQQIMDLLMALARICYDP
NFEKLLDLVAKLPDDLKLFKFLGDHGFVAGTNISYIDFLVYELIRVKIFAPEIFTKF
PNLNSYITRIESMPKISAYIKQQEPQLFNGPMAKWNTKY

>AAO15613.1 major allergen 1 [*Sarcoptes scabiei*]
FVELKKDKDLYSMKSNVKNRNEIFYENNM DLEKNGKMNWYYKRNDRTWNMDLDNAFNPRD
GTMKLQVKDRIYDIKLRKREPFYGD LHIENENALIKKGD LHMSLVDPLTLNVLTKNDGI
VDMTLDL VSPNTKKAALKINSK KYDL DHDGEITVSIFNPRMTWKHHTRKGMELNIDADI
TRKGLSITYSRKEPDDSTKVRYSRQGNQVSMEVDSK LIEGHANGTLTDGKIHVKGRESDF
EISTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMNMKYDRFAPVKILK
LDYDGLNYEKHIDAEYEPSNHKYFTDGKS

>AAO15713.1 Allergen allergen Pen m 2 [*Penaeus monodon*]
MADAAVIEKLEAGFKKLEAATDCKSLLK KYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSP LFDPIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYFPNCLTEAQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTARASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKR RMGLTEFQAVKEMQDGILELIKMEKEM

>CAD24068.1 Allergen Hev b 11; chitinase (class I) [*Hevea brasiliensis* subsp. *brasiliensis*]
EQCGRQAGGALCPGGLCCS QYGCANTPEYCGSGCQSQC DGGVGGEGGCVDLGSII SRST
FEMLKHRNNAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHATTG
GWPTAPDGPYAWGYCHKEELNQASSYCSPSA YPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNPNDLVATDRVISFKAAIWFWMTPQFPKPSCHDVITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGSGWDARVEDRIGFYKRYCDMFGVGYGSNLDCYNQTPFGLG

>CAD37201.1 Allergen Pru p 4; profilin [*Prunus persica*]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAPFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>CAD37202.1 Allergen Pru p 4; profilin [*Prunus persica*]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGVTVKKSTLALLIGIYDEPMTPGQCNMIVE

RLGDYLVEQGL

>BAC53948.1 Allergen Der f 1 allergen preproenzyme [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEVARKNFLESLKYVEAN
KGAINHLSLDFEKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRLSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVI
IGIKDLRAFQHYDGRTHIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSDGY
GYFQAGNNLMMIEQYPYVVM

>AAM19082.1 Putative 60 kDa allergen Der f 18p [Dermatophagoides farinae]
MTRFSLTVLAVLAACFGSNIRPNVATLEPKTVCYYESWVHWRQGEKMDPEDIDTSLCTH
IVYSYFGIDAATHEIKLLDEYLMKDLHDMEHFTQHKGNKAMIAVGGSTMSDQFSKTA
EHYRETFVSTVDMTRYGFDGVMIDWSGMQAKSDNFILDKFDEKFAHTSFVMGVTL
PATIASYDNYNIPAINSYVDFMNVLSLDYTGSWAHTVGHASPFPEQLKTLEAYHKRGAPR
HKMVMVAVPFYARTWILEKMNKQDIGDKASGPGPRGQFTQTDGFLSYNELCVQIQAE
TITRDHDNTAIYAVYVHSNHAEWISFEDRHTLGEKAKNITQQGYAGMSVYTLNEDVHGV
CGDKNPLLHAIQSNYYHGVVTEPTVVTLPVTHTEHVTDIPGVFHCHEEGFFRDKTYCA
TYECKKGFLEKTVHHCANHLQAFDEVSRTCIDHTKIPGC

>NP_776945.1 Allergen collagen alpha-2(I) chain precursor [Bos taurus]
MLSFVDTRTLLLLAVTSCLATCQSLQEATARKGPSGDRGPRGERGPPGPPGRDGDGIPG
PPGPPGPPGPPGLGGNFAAQFDAKGGGPGMGLMGRGPPGASGAPGPQGFQPPGEPGE
PGQTGPAGARGPPGPPGKAGEDGHPGKPRGPRGVRVGPQGARGFPPTPLPGFKGIRGH
NGLDGLKGQPGAPGVKGEPEGAPGENGTPGQTGARGLPGERGRVVGAPGAPARGSDGSVGP
VGPAGPIGSAGPPGFPAGPKGELGPVGNPAGPAGPRGEVGLPGLSGPVGPPGNPGA
NGLPGAAGAGLPGVAGAPGLPGRGIPGVGAAGATGARGLVGEPGAPGSKGESGNKGE
PGA VGPQPPGSGEEGKRGSTGEIGPAGPPGPPGLRGNPGRGLPGADGRAGVMGPAGS
RGATGPAGVRGPNGDSGRPGEPGLMGRGFPSPGNIPAGKEGPVGLPGIDGRPGPIGP
AGARGEPNIGFPGPKGSPGDPGKAGEKGHAGLAGARGAPDPGNNGAQGPPGLQGVQGG
KGEQGPAGPPGFQGLPGPAGTAGEAGKPGERGIPGEFGLPGPAGARGERPPEGESGAAGP
TGPIGSRGPSGPPGPDGNKGEPEGVVGAPGTAGPSGSPGLPGERGAAGIPGGKGEKGETGL
RGDIGSPRDGARGAPGAIGAPGAPANGDRGEAGPAGPAGPAGPRGSPGERGEVGPAGP
NGFAGPAGAAGQPGAKGERGTKGPKGENGPVGTGPVGAAGPSGPNPAGPAGSRGDGPP
PGATGFPGAAGRTPPGPSGISGPPGPPGAPKEGLRGRGDQGPVGRSGETGASGPPGF
VGEKGPSGEPGTAGPPGTPGPQGLLAPGFLGLPGRGERGLPGVAGSVGEPGLGIAGP
PGARGPPGNVGNPVGNGAPGEAGRDGNPNDGPPGRDGPQGHKGERGYPGNAGPVGAAGA
PGPQGPVGPVKGHNRGEPGAPAVGPAGAVGPRGSPGQIRGDKGEPGDKGPRGLPGL
KGHNGLQGLPGLAGHHGDQGAPGAVGPAGPRGPAGPSGAPGKDRIGQPGA VGPAGIRGS
QGSQGPAGPPGPPGPPGPPGSGGGYEFDFGDFYRADQPRSPSLRPKDYEV DATLKSL
NNQIETLLTPEGSRKNPARTCRDLRLSHPEWSSGYYWIDPNQGCTMDAIKVYCDFSTGET
CIRAQPEDIPVKNWYRNSKAKKHVVVGETINGGTQFEYNVEGVTTKEMATQLAFMRLLAN
HASQNITYHCKNSIAYMDEETGNLKKAVILQGSNDVELVAEGNSRFTYTVLVDGCSKKTN
EWQKTIIEYKTNKPSRLPILDIAPLDIGGADQEIRLNIGPVCFK

>NP_776953.1 Allergen Bos d 10; alphaS2-casein [Bos taurus]
MKFFIFTCLLAVALAKNTMEHVSSSEESIISQETYKQEKMAINPSKENLCSTFCKEVVR
NANEEYSIGSSSEESA EVATEEVKITVDDKH YQKALNEINQFYQKFPQYLQYLYQGPIV
LNPWDQVKRNAVPITPLNREQLSTSEENSKKTVDMESTE VFTKTKL TEEKRNLFK
KISQRYQKFALPQYLKTVYQH QKAMKPWIQPKTKVIPYVRYL

>AAO24900.1 Allergen major pollen allergen Art v 1 precursor [Artemisia vulgaris]
MAKCSYVFCVLLIFIVAIGEMEAAGSKLCEKTSKTYSGKCDNKKCDKCKIEWEKAQHGA
CHKREAGKESCFYFDCSKSPPGATPAPPGAAPPAAGGSPSPADGGSPPPADGGSP
VDGGSPPPSTH

>NP_776719.1 Allergen Bos d 12; kappa-casein [Bos taurus]
MMKSFFLVVTILALTLPLFLGAQEQNQEPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYG
LNYQQKPVALINNQLPYPYAKPAAVRSQAQILQWQVLSNTVPAKSCQAQPTT MARHP
HPHLSFMAIPPKNQDKTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEI

NTVQVTSTAV

>AAO25113.1 major allergen Mal d 1 [Malus domestica]

MGVFTYESEFTSVIPPARLNFNAFVLDADNLIPIAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFLKIENYLLEHPDAYN

>AAO32314.1 Allergen Car i 1; 2S albumin [Carya illinoensis]

MARVAALLVALLFVANAAAFRTTITTEMEIDEDIDNPRRRGESCREQIQRQQYLNRCDYL
RQQCRSGGYDEDNQRQHFRQCCQQLSQMEEQCQCEGLRQAVRQQQQEEGIRGEEMEEMVQ
CASDLPKECGISSRSCEIRRSWF

>1NLX_N Allergen Chain N, Crystal Structure Of Phl P 6, A Major Timothy Grass Pollen Allergen Co-Crystallized With Zinc [Phleum pratense]

MGKATTEEQKLIEDVNASFRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQL
VPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA

>CAD20981.3 Allergen Mala s 10; heat shock protein 70 [Malassezia sympodialis]

MSSVVGLDIGNSSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGLSLKRLIGRTFQDESIQTYEKPFVNAELVDAKGEVGVKVRVFQNEEHIFSATQLLA
MYLGKLLDTTQNELGGSGVSDVVLSPWIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSPRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFAEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQGLTKDEIHSVELVGGSSRPALKERIAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPIKVSWEPAVDVPDEENELV
VFNTNPNVPSTKILTFYRKEPFLDATYADASTLPGKTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPVVDPNAAEDAEPKTEKKIVKKLQRKDDL
IVSGIGLLDPTLLAELKEREQMYAADKLVAADTEDRKNAL E EYIYDTRSKLDERYATFVQ
SEEKEKLLAMLAESD WLYTEEGEDATKSA YVSRLET LQKVGAPIHFRWKEHEERP KAAA
QLREVVNKYMSVFENEPEKYDHLSDDDKTKVIEKAATVGKWLDDYMYKQSEL PKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>CAD68071.1 Allergen Mala s 11; Mn superoxide dismutase [Malassezia sympodialis]

PFYPIPSALPFPLPIHSLFSRRLFRFRSRTAARAGTEHTLPLPYEYNALEPFISADIM
MVHHGKHHQTYVNNLNASTKAYNDVQAQDVLKQMELLTAVKFNNGGHHVNHALFWKTMAP
QSQGGGQLNDGPLKQAIKDFEFGDFEKFKAFTAKALGIQSGGWCWLGLSKTGSLLDVLVAK
DQDTLTTHHPHIGWDGWEHAWYLQYKNDKASYLKQWWNVNWNWSEAESRYSEGLKASL

>AAO45607.1 Allergen Zea m1; beta-expansin 9 protein [Zea mays]

MGLANNIMVVGAVLAALVGGSCGPPKVPVPGNITTNYNGKWL TARATWYGGPNGAGAP
DNGGACGIKVNLPYSGMTACGNVPIFKDGGKCGSCYEVRCCKEPECSGNPVTVFITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKLRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYVAVLVKVFVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTS
ESGKKVIAKDIIPANWRPDAVYTSNVQFY

>AAO45608.1 Putative beta-expansin 1 protein [Zea mays]

MGLANNIMVVGAVLAALVAGGSCGPPKVPVPGNITTNYNGKWL TARATWYGGPNGAGAP
DNGGACGIKVNLPYSGMTACGNVPIFKDGGKCGSCYEVRCCKEPECSGNPVTYITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKIRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYLA VLKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>CAD69036.1 Allergen Der p 5-like protein product [Dermatophagoides pteronyssinus]

MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDLLMERIHEQIKKGELALFYLQEQINHFE
EKPTKEMKDKIVAEMDTIIMIDGVRGVLDRMLQRKDLDFEQYNLEMLKKSGLDILERDL
KKEEARVKNIEV

>CAD46559.1 Allergen Mal d 4; profilin [Malus domestica]

MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEAGAVIRGKKGSGGVTVKKTGQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>CAD46560.1 Allergen Mal d 4; profilin [Malus domestica]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL

APTGLYLGGTKYMVIQGEPPGVIRGKKGPGGVTVKKSTMASLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>CAD46561.1 Allergen Mal d 4; profilin [*Malus domestica*]

MSWQAYVDDHLMCDIDGYRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEPPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIVVE
RLGDYLIEQGL

>1L3P_A Allergen Phl p 5; ribonuclease [*Phleum pratense*]

IPAGELQIIDKIDAAFVAATAAATAPADDKFTVFEAAFNKAIKETTGGAYDITYKCIPL
EAAVKQAYAATVAAAPQVKYAVFEAALTKAITAMSEVQKVSQ

>CAD80019.1 Putative Group 1 allergen-like [*Plantago lanceolata*]

MVKLTVAAAILLIGAFFLIASSTSIATQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAG
AQVQL

>AAO65960.1 Allergen Cor a 13; oleosin [*Corylus avellana*]

MAEHPRQLQDPAHQPRSHQVVKAAATAATAGGSLLVPSGLILAGTVIALTLATPLFVIFSP
VLVPAVITVSLIIMGFLASGGFGVAAVTVLSWIYRYVTGRHPPGADQLDHARMKLASKAR
EMKDRAEQFGQQHVTGSQGS

>CAD82911.1 Allergen precursor Can f II [*Canis familiaris*]

STFCLGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHFRVFIHSM
SAKDGNLHGDILIPQDQCEKVSLTAFKTATSNKFDLEYWGHNDLYLAEVDPKSYLILYM
INQYNDTSLVAHLMVRDLRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRQCQSRD

>CAD82912.1 Allergen precursor Can f II [*Canis familiaris*]

QLLLTVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLTKPWGHFRVFIH
SMSAKDVNLHGDILIPQDQCEKVSLTAFKTATSNKFDLEYWGHNDLYLAEVDPKSYLIL
YMINQYNDTSLVAHLMVRDLRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRQCQSRD

>CAD56944.1 Allergen Api m 12; vitellogenin [*Apis mellifera*]

MLLLTLLLFAAGTVAADFQHNWQVGNQYTYLVRSTLTSGLDLSDVHTGILIKALLTVQA
KDSNVLAQVWNGQYARVQQSMPDGWETEISDQMLELRDLPISGKPFQIRMKHGLIRDLI
VDRDVPTWEVNIKSIQVQLQVDTQGENAVKVNVSQVPTDDEPYASFKAMEDSVGGKCEV
LYDIAPLSDFVIHRPELVPMPTLKGDRHMEVIKIKNFDNCDQRINYHFGMTDNSRLEP
GTNKNKGFFSRSSSTRIVISESLKHFTIQSSVTTSKMMVSPRLYDRQNGLVLSRMNLT
LA KMEKTSKPLPMVDNPESTGNLVYIYNNPFSDEERRVSKTAMNSNQIVSDNSLSSSEEK
L KQDILNLRDIDISSSSSSISSEENDFWQPKPTLEDAPQNSLLPNFVGYKKGKHHIGKSGKVD
VINA AKELIFQIANELEDASNIPVHATLEKFMILCNLMRTMNRKQISELESNMQISP
NEL KPNDKSQVIKQNTWTVFRDAITQTGTGPAFLTKEWIERGTTKSMEANIMSKLPKTVRT
PTDSYIRSFPELLQNPVSNEQFLNTAATLSFCEMIHNAQVNKRSIHNNYPVHTFGRLTS
KHDNSLYDEYIPFLERELRKAHQEKDSPRIQTYIMALGMIGEPKILSVFEPYLEGKQQMT
VFQRTLMTVGLGKLTETNPKLARSVLYKIYLNMTMESHEVRCTAVFLLMKTNPPLSMLQRM
AEFTKLDNTRQVNSAVKSTIQSLMMLKSPKDLAKKARSVNHLTHHEYDYELSRGYID
EKILENQNIITHMILNYVGSSEDSVIPRILYLTWYSSNGDIKVPSTKVLAMISSVKSFMEL
SLRSVKDRETIISAAEKIAEELKIVPEELVPLEGNLMINNKYALKFFPFDKHILDKLPTL
ISNYIEAVKEGKFMNVNMLDYESVHSFPTETGLPFVYTFNVIKLTKTSGTVQAQINPDF
AFIVNSNLRFTFSKNVQGRVGFVTPFEHRHFISGIDSNLHVYAPLKISLDVNTPKGNMQW
KIWPMKGEEKSRLFHYSVVPFVSNHDILNLRPLSMEKGTRPMIPDDNTSLALPKNEGPF
R LNVETAKTNEEMWELIDTEKLTDRLPYPWTMDNERVYKVDMYMNLEGEQKDPVIFST
SFD SKVMTRPDTDSENWTPKMMAVEPTDKQANSKTRRQEMMREAGRGIESAKSYVVDV
RVHVP GESESETVLTALWSES NVESKGRLLGFWRVEMPRSNADYEVCIQSQIMVSPETLLS
YDEK MDQPKMDFNVDIRYGNKCGKGERIDMNGKLRQSPRLKELVGATSIKDCVEDMKR
GNKI LRTCQKAVVLSMLLDEVDISMEVPSDALIALYSQGLFSLSEIDNLDVSLDVS
NPKNAGKK KIDVRAKLNEYLDKADVIVNTPIMDAHFKDVKLSDFGFSTEDILDTA
DEDLLINNVFYED ETSCMLDKTRAQTFDGDYPLRLGPCWHAVMTTYPRINPDNHNEK
LHIPKDKSVSVLSRE NEAGQKEVKVLLGSDKIKFVPGTTSQPEVFNGEKIVVSRNKAY
QKVEENEIIFEIYKMG DRFIGLTSDFVSLALDGERVMLKASEDYRYSVRGLCGNFDH
DSTNDFVGPKNCLFRKP EHFVASYALISNQCEGDSLNVAKSLQDHD
CIRQERTQQRNVISDSESGRLDTEMSTWGYH HNVNKHCTI
HRTQVKETDDKICFTMRPVVSCASGCTAVETKSKPYK
FHCMEKNEAAMKLLK

KRIEKGANPDL SQKPVSTTEELTVPFVCKA

>BAC66618.1 Putative parvalbumin [Scomber japonicus]

MAFASVLKDAEVTAAALDGCKAAGSFDHKKFFKACGLSGKSTDEVKKAFAIIDQDKSGFIE
EELKLFLQNFKAGARALSDAETKAFKAGDSDGDGKIGIDEFAAMIKG

>AAL92578.1 Allergen allergen Ole e 10 [Olea europaea]

MRGTAGVPDQPVPPTPTSPVPTSSSPVPKPPTQGNKKWCVPKAEATDAQLQSNIDYVCSQS
GMDCGPIQANGACFNPNTVRAHASYAMNSWYQSKGRNDFDCDFSGTGAITSSDPSNGSCS
FLS

>AAL92870.1 Allergen pollen allergen Che a 2 [Chenopodium album]

MSWQTYVDDHLMCDIEGNHLSSAAILGHDGTVWAQSPSPQLKPEEVSAIMKDFNEPGSL
APTGLHLGGTKYMVIQGEPCDVGIRGKKGPGGVTIKKTNQALIIGIYGEPMPGQCNMVVE
RIGDYLVEQGM

>AAL92871.1 Putative pollen allergen Che a 3 [Chenopodium album]

MAAEDTPQDIADRERIFKRFDNTNGDGKISSSELGDALKTLGSVTPDEVRRMMAEIDTDGD
GFISFDEFTDFARANRGLVKDVSKIF

>CAD87529.1 Allergen phl p5a allergen precursor [Phleum pratense]

ADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEEQKLIKINAGFKAALAAAAGVPPAD
KYRTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAKLAAYKTAEGATPEAK
YDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANAAP
ANDKFTVFEAAFNAIKASTGGAYESYKFI PALEAAVKQAYAA TVATAPEVKYTVFETAL
KKAITAMSEAQKAAKAAAATATATS AVGAATGAATAATGGYKV

>CAD87730.1 Allergen Len c 1; 7S globulin/ vicilin-like protein [Lens culinaris]

SRSDQENPFIFKSNRFQTIYENENGHIRLLQRFDKRSKIFENLQNYRLLLEYKSKPHTIFL
PQFTDADFILVVLGSKAILTVLNSNDRNSFNLERGDTIKLPAGTIA YLANRDDNEDLRVL
DLAIPVNRPGQLQSFLSGTQNPQSFLSGFSKNILEAAFNTEYEEIEKVLLEEQE QKSQH
RRSLRDKRQEITNEDVIVKVSREQIEELSKNAKSSSKKSVSSESEPFNLSRNPIYSNKF
GKFFEITPEKNPQLQDLDFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGFELVGQRN
ENQQEQREENDEEEGQEEETTKQVQRYRARLSPGDVLPVAGHPVAINASSDLNLIGFGI
NAKNNQRNFLAGEEDNVISQIQRPVKELAFPGSSREVDRLLTNQQKQSHFANAQPLQIE

>CAD87731.1 Allergen Len c 1; 7S globulin/ vicilin-like protein [Lens culinaris]

SRSDQENPFIFKSNRFQTIYENENGHIRLLQKFDKRSKIFENLQNYRLLLEYKSKPHTLFL
PQYTDADFILVVLGSKAVLTVLNSNDRNSFNLERGDTIKLPAGTIA YLANRDDNEDLRVL
DLAIPVNNPGQLESFLSGTQNPQSFLSGFNKSILEAAFNTDYEEIEKVLLEDQE QEPQH
RRSLRDRRQEINKENVIVKVSREQIKELSKNAKSSSKKSVSSESEPFNLSRNPIYSNKF
GKFFEITPEKNPQLQDLDFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGYFELVGQRN
ENQREENDEEEGQEEETSTQVQRYRAKLSPGDVFPVAGHPVAINASSDLNLIGFGINAK
NNQRNFLAGEEDNVISQIQRPVKELAFPGSSREVDRLLTNQQKQSHFANAQPLQIE

>O23878.1 Putative 13S globulin seed storage protein 1 precursor (Legumin-like protein 1) [Fagopyrum esculentum]

MSTKLILSFLCLMVLSCSAQLLPWRKQGSRPHRQHQQFHHQCDVQRLTASEPSRRVRS
EAGVTEIWDNDTPEFRFCAGFVA VRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVPGC
PETFQSESEFEY PQSQRDQRSRQSESEESSRGDQRTRQSESEEF SRGDQRTRQSESEEF
RGDQRTRQSESEEF SRGDQRTRQSESEEF SRGDQH QKIFRIRDGDVIPSPAGVVQWTHND
GDNDLISITLYDANSFQNQLDGNVRNFFLAGQSKQSREDRRSQRQTREEGSDRQSRESDD
DEALLEANILTGFQDEILQEIFRNVDQETISKL RGDNDQ RGFIVQARDLKL RPVEEYEEE
LQRERGDRKRGGSGRSNGLEQAF CNLKFQ QNVNRP SRADVFNPRAGRINTVNSNNLPILE
FIQLSAQHVVLYKNAILGPRWNLNAHSALYVTRGEGRVQVVGDEGRSVFDDNVQRGQILV
VPQGFAVVLKAGREGLEWVELKNDDNAITSPIAGKTSVLRAIPVEVLANSYDISTKEAFR
LKNRQREVEVFLPFQSRDEKERERF

>O23880.1 Putative 13S globulin seed storage protein 2 precursor (Legumin-like protein 2) [Fagopyrum esculentum]

MSTKLILSFLCLMVLSCSAQLWPWQKQGSRPHHGRQHQFQHQCIDIQRLTASEPSRRV
RSEAGVTEIWDHDTPEFRCTGFVA VRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVVP
GCPETFQSDSEFEY PQSQRGRHSRQSESEEESSRGDQH QKIFRIREGDVIPSPAGVVQWT
HNDGNDDLISVTLLDANSYHKQLDENVRSFFLAGQSQRETREEGSDRQSRESDDDEALLG
ANILSGFQDEILHELFRDVDRETISKLRGENDQ RGFIVQAQDLKL RVPQDFEEEYERERG

DRRRGQGGSGRSNGVEQGFNLFKFRNFNTPTNTYVFNPRAGRINTVNSNSLPILEFLQL
SAQHVVLKAGREGLEWVELKNSGNAITSPIGGRTSVLRAIPVEVLANSYDISTKEAYKLNKNG
RQEVEVFRPFQSRDEKERERFSIV

>Q9XFM4.1 Putative 13S globulin seed storage protein 3 precursor (Legumin-like protein 3) (Allergen Fag e 1)
[Fagopyrum esculentum]

MSTKLILSFLCLMVLSCSAQLLPWQKQQRSRPHHGHQGFQHQCDIQRLTASEPSRRVRS
EAGVTEIWDHDTPEFRCAGFVA VRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVPGC
PETFQSGSEFEYPRSQRDQRSRQSESGESSRGDQRSRQSESEESSRGDQRSRQSESEEF
RGDQHOKIFRIRDGDVIPSPAGVVQWTHNNGDNDLISITLYDANSFQNQLDENVRNFFLA
GQSKQSREDRRSQRQTREEGSDRQSRQSDDEALLEANILSGFEDEILQEIFRNVDQETI
SKLRGENDQRGFIVQARDLKL RVPEEYEEELQREGRDRKRGGSGRSNGLEQAFCNLKFRQ
NVNRPSRADVFNPRAGRINTVDSNNLPILEFIQLSAQHVVLKNAI LGPRWNLNAHSALY
VTRGEGRVQVVGDEGRSVFDDNVQRGQILVVPQGFVVLKAGREGLEWVELKNDDNAITS
PIAGKTSVLRAIPVEVLANSYDISTKEAFRLKNGRQEVEVFRPFQSRDEKERERFSIV

>AAP06493.1 Putative hypothetical protein, putative Profilin/allergen [Schistosoma japonicum]
MSADSWDNHCVTYVANNKCLKNLCMTAIDGSHLGTSNPDFRIPPELILQLKSILDGGLDT
SIFFMGEKYIVLQHDSSCLVSRGKKSIFATGKICLVGQTVDDDQNNCTQGNFAISRM
RDHYERMGY

>AAP13554.1 Allergen major allergen Per a 1.0105 [Periplaneta americana]
NSARGEHGLDVADFLNEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKAL
FQEKLETSPDFKALYDAIRSPEFQSIISTLNAMPEYQDLLQNL RDKGVVDVDFHIELIRSL
FGLP

>AAO38859.1 Allergen Ber e 2; 11S globulin / legumin-like protein [Bertholletia excelsa]
MAKLFLLSLGFLLFHCCLAIEYEQEELYECRIQRLTAQEPQYRLEAEAGVSEVWDYTDQ
QFRCAGVAALRNTIRPQGLLPVYTNAPKLYYVTQGRGILGVLMPGCPETFQSMSQFQGS
REQEEERGRFQDQHVKVHHLKKGDIIPAGVALWCYNDGDEDLVTVLVQHTASDLNQLD
QNPRHFFLAGNIQRSQKQRGERYGLRGGQILADNVFKGFNMEALADVLGFGMDTETARK
VRGEDDQRGHIVRVEQGLKVIRPPRIREELEQQEGGGYNGLEETICSATFIQNIDNPAEA
DFYNPRAGRLTTVNSLKVPIILTFLQLSAMKGVLYENAMMAPLWRLNANSVVYAVRGEARV
QIVDHRGETVFDDNLREGQMVVVPQNFVVKQAGSRGFVWFNTNDNALFSTAAGRTSP
LRGIPVGLANAYRLSQEEARRIKLNRDEAVLFQPGSRSRGRASA

>AAP30720.1 Allergen Rho m 1; enolase [Rhodotorula mucilaginosa]
MAISKIHSRYVYDSRGNPTVEVELTTEKGTFRSIVPSGASTGVHEALELRDGDKSKWLK
GVLKAVANVNDTIAPALIEANIDVADQAKIDEFLKLDGTPNKAKLGANAILGVSLAAK
AGAAQKDVPLYKHIADISKAKEGKFVLPVPFQNVLNGGSHAGGDLAFQEFMIVPSGAPSF
SEGLRIGSEVYHHLKSLTKKKYQGSAGNVGDEGGVAPDIKTAKEALDLIVSAIEAAGYTG
QVDIAMDVASSEFYKDGLYDLDFKNPNSDKSKWITGPQLAELYEQLLNEYPIVSIEDPFA
EDDWEAWSHFFSKVEGKTQIVGDDLTVTNPIRIKKA IETKAADALLKVNQIGTLTESIQ
AANDSYAAGWGMVSHRSGETEDTFIADLSVGIRSGQTKTGAPARSERLAKLNQILRIE
ELGDKAIYAGKDFHKAHSL

>BAC76688.1 Allergen Tri a 27; thiol reductase [Triticum aestivum]
GDVATGRGSEKVVHVAIYYESLCPYSVRFVANHLFKA YRDGLLDAANLTLVPYGNVVRND
GTISCQHGP EEC LLNTVEACAIDAWPDVKVHLGFIYCVSDLVLKNKHREWESCFQKQGLD
PKPVTECYKGERGHNSLEYGRQTAELVPPHQFVPPVVDGKPLYNDYGNFKAYICKAYK
GYPLLEACRSLGLEAHDDVYGR

>NP_851341.1 Putative lactotransferrin [Bos taurus]
MKLFPALLSLGALGLCLAAPRKNVRWCTISQPEWFKCRRWQWRMCKLGAPSITCVRRAF
ALECIRAI AEKKADAVTL DGGMVFEAGRDPYKLRPVAAE IYGTKESPQTHYYAVAVVKKG
SNFQLDQLQGRKSCHTGLGRSAGWIIPMGILRPYLSWTESLEPLQGAVAKFFSASCVPCI
DRQAYPNLCQLCKGEGENQCACSSREPYFGYSGAFKCLQDGAGDVA FVKETT V FENLPEK
ADRDQYELLCLNNSRAPVDAFKECHLAQVPSHAVVARSVDGKEDLIWKLLSKAQEKFGKN
KSRSFQLFGSPPGQRDLLFKDSALGFLRIPSKVDSALYLSRYLTTLKNLRETAEEVKAR
YTRVVWCAVGP EEQKKCQQWSQQSQGNVTCATASTTDDCIVLVLKGEADALNLDGGYIYT

AGKCGLVPVLAENRKSXSSKSSLDLDCVLRPTEGYLA VAVVKKANEGLTWNLSLKDKKKSCHTAV
DRTAGWNIPMGLIVNQTGSCAFDEFSSQSCAPGADPKSRLCALCAGDDQGLDKCVPNSKE
KYYGYTGAFRCLAEDVGDVAFVKNNTVWENTNGESTADWAKNLNREDFRLLCLDGTRKPV
TEAQSCHLAVAPNHAVVSRSDRAAHVKQVLLHQALFGKNGKNCBPKFCLFKSETKNLLF
NDNTECLAKLGGRRPTYEEYLGTEYVTAIANLKKCSTSPLEACAFLTR

>NP_851372.1 Allergen Bos d 9; alphaS1-casein [Bos taurus]

MKLLILTCLVAVALARPKHPKHQGLPQEVLNENLLRFFVAPFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSEYLYGYLEQLLRLLKYYK
VPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>AAP37482.1 Allergen allergen Bet v 1x [Betula pendula]

MRVFNYKGETTSLIPLARLFK

>AAP37470.1 Allergen Hev b 13; esterase [Hevea brasiliensis]

MEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNFGDSNSDTGGKAAAFYPLNPPYG
ETFFHRSTGRYSDGRLIIDFIAESFNLPYLSYSSLSGNSFKHGADFATAGSTIKLPTTI
IPAHHGGFSPFYLDVQYSQFRQFIPRSQFIRETGGIFAELVPEEYFYEKALYTFDIGQNDL
TEGFLNLTVEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPWAE
KDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYSLFSEPEKHGFEF
PLITCCGYGGKYNFSVTAPCGDVTADDGTKIVVGSCACPSVRVNWGDGAHYTEAANEYFF
DQISTGAFSDPPVPLNMACHKTESLRTLASV

>AAP37412.1 Allergen Pol a 4; serine protease [Polistes dominula]

MNCGKIILLFITIIGVAKSREENCKCGWDNPSRIVNGVETEINEFPMVARLIYPSPGMYC
GGTIITPQHIVTAAHCLQKYKRTNYTGIHVVVGEHDYTTDTETNVTKRYTIAEVTIHPNY
NSHNNDIAIVKTNERFEYSMKVGPVCLPFNYMTRNLNETVTALGWGKLRVYNGQNSKVLR
KVDLHVITREQCETHYGAAIANANLLCTFDVGRDACQNDSSGGPILWRSPTTDNLILVGVV
NFGRTCADDAPGGNARVTSFMEFIHNATIGETYCKAD

>AAM54365.1 Allergen Jug n 1; 2S albumin [Juglans nigra]

RHEARKCIFHTFSLTMARLATLAALLVALLFVANAAAFRTTITTEIDEDIDNPRRRGEG
CQEIQRQQLNHCQYYLRQQSRSGGYDEDNQRQHFRQCCQQLSQIEEQCQCEGLRQAVR
RQQQQQGLRGEEMEEMVQSARDLPKECGISSQRCEIRSWF

>AAM54366.1 Allergen Jug n 2; 7S globulin/vicilin-like protein [Juglans nigra]

GRDRQDPQQYHRCQRCQIQEQSPERQRCQRCERQYKEQQGRERGPEASPRRESKGR
EEEQQRHNPYYFHSQSIRSRHESEEGEVKYLERFAERTELLRGIENYRVVILDANPNTFM
LPHHKDAESVIVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATEYVINQDSNERLEM
VKLLQPVNPNPGQVREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDRLERFFDQQEQREG
VIIRASQEKLRLALSQHAMSAGQRPWGRRSSGGPISLKSERPSYSNQFGQFFEACPEEHRQ
LQEMDVLVNYAEIKRGAMMVPHYNSKATVVVYVVEGTGRYEMACPHVSSQSFEDQGRREQ
EEEESTGRFQKVTARLARGDIFVIPAGHPAITASQENLRLLGFGINGENNQRNFLAGQ
NSIINQLEREAKELSFNMPREEIEEFESQMESYFVPTERQSRRGQGRDHPLASILGFAP

F

>AAM78596.1 Allergen allergen Ara h 2 isoform [Arachis hypogaea]

LTILVAPALFLAAHASARQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSYGRD
PYSPSQDPYSPSQDPDRRDYSPSPYDRRGAGSSQHQRCCNELNEFENNQRRCMCEALQQ
IMENQSDRLQGRQQEQQFKRELRNLPQQCGLRAPQRCDLEVESGGRDRY

>AAP47226.1 Allergen Hel a 3; lipid transfer protein (LTP) type 1 [Helianthus annuus]

MKGTSMGVAILAMIVMAQLMVHPSVAITCNDVTGNLTPCLPYLRSGGKPTPACCAGAKKL
LGATRTQADRRTACKCAKTAAPQLKVRPDMASSLPKCGISTSIPINPNVNCNTIP

>CAD92666.1 Allergen profilin [Cucumis melo]

MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>P80207.1 Putative Allergen Bra j 1-E (Bra j I) [Contains: Allergen Bra j 1-E small chain; Allergen Bra j 1-E large chain]

AGPFRFPRCRKEFQQAQHLRACQQWLHKQAMQSGSGPQPQGPQQRPLLQCCNELHQEE

PLCVCPTLKGASKAVKQQRQQGQQGQQGQQQLQHEISRIYQTATHLPRVCNIPRVSICP
FQKTMPGPS

>P81729.1 Putative Chitin-binding allergen Bra r 2 [Brassica rapa subsp. rapa]

QAGGQTCAGNICCSQYGYCGTTADY CSPDNNCQATYHYYNPAQNNWDLRAVSAYCSTWDA
DKPYSWRYGWTAFCGPAGPRCLRTNAAVTVR

>P82946.1 Putative Major pollen allergen Dac g 4 [Dactylis glomerata]

DIYNYMEPYVSKVDPTDYFGNEQARTAWVDSGAQLGELSYGVLFNIQYVNYWFAP

>P83507.1 Putative Major urinary protein (MUP) (Allergen Cav p 1) [Cavia porcellus]

SEINGDWNTIALSAD

>AAP87281.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]

MAISSSTSGTSSSLPSRTTVMLLIFFTASLGITDAQVGVCYGMQGNLPPVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
LFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILTLVGNYSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVSSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYL FAMFDENKKQPEVEKHFGLFFPKRKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>AAP94213.1 Allergen Hum j 1; unknown [Humulus japonicus]

MKNLQHHNKIITFKTPDDSTTLELN SHISLPYHWEQCLDLKTGEIYYINWRNGMKAKEDP
RTTITEYNSNGSNGDY YYYSEEDSSYDSEESSSESSPPPATT SRESQYRGAEKDHVLVVG
CKSCFMVFMV PKQVQCEPKCCGQPLHFDRSQSGSQ

>AAP96759.1 Allergen group 1 allergen Dac g 1.01 precursor [Dactylis glomerata]

IPKVPPGNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVKAPFNGMTGCGNT
PIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDNEEPIAPYHFDLSGHAFGSMKKG
EQKLSAGELELQFRRVKCKYPEGTKLTFHVEKGSNPNYLALLVKYVDGDGDVVAVDIKE
KGKDKWIALKESWGAIWRVDTDPDKLTGPFTVRYTTEGGTKSEVEDVIPEGWKADTSYEA

>P81943.3 Putative RecName: Full=Allergen Api g 5; AltName: Allergen=Api g 5 [Apium graveolens]

LPNPSGFVTCLSSISKS VYTPAINLKAVIADPVAKTAVVQAGATLGEVYYXIIYARVLWV
GNTTQKLEWIRSLHDYQSSFFPFFSA

>AAQ08190.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

IRTVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAQ08947.1 Allergen Fra e 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Fraxinus excelsior]

EDVPQPPVSLFYVQGQVYCDTCRAGFITELSEFIQGAGVRLQCKDKENGKVTFTFTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEVLPKCPQVYNKLGMYPPNM

>AAQ10268.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

ILTVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAQ10271.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

IWTVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAQ10274.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

WTVSCDTCRAGFITELSEFIPGASVRLQCKDKENG DITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
YNKLGMYPPNM

>AAQ10276.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

SYCDTCRAGFITELSEFIPGAGVRLQCKDGENGNITFTEVGYTRAEGLYSMLVERDHKNE
FCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPLGFFKKEALPKCAQVYN
KLGMYPPNM

>AAQ10277.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

QAVYCDTCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>AAQ10278.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

QDSYRDTCCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>AAQ10279.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

IRTVSQDTCCARFITELSEFIPGAGVRLQCKDGGENGVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPPDM

>AAQ10280.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

IRTVFRVTCRARFITELSEFIPGAGVRLQCKDGGENGVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPPDM

>AAQ10281.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

QDSYSGHCRARFITELSEFIPGAGVRLQCKDGGENGVTFTEVGYTRAEGLYSMLIERDHK
NEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQV
FNKLGMYPPDM

>AAQ24541.1 Putative Blo t 1 allergen [Blomia tropicalis]

MKFLVAALCALVAIGSCKPTREEIKTFEQFKVFGKVYRNAEEEEARREHHFKEQLKWVE
EHNGIDGVEYAINESDMSEQEFSEFHLSSGGGLNFTYMKMEAAKEPLINTYGSLPQNFDWR
QKARLTRIRQQGSCGSCWAFAAAGVAESLYSIQKQOSIELSEQELVDCTYNRYDSSYQCN
GCGSGYSTAEAFKYMIRTGLVEEENYPYNMRTQWCNPDVEGQRYHVSQYQLRYQSSDEDV
MYTIQQHGPVVIIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVGWGTVQGVYWIIR
NSWGTGWNGGGYGYVERGHNSLGINNFVTYATL

>AAQ24542.1 Putative Blo t 3 allergen [Blomia tropicalis]

MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVDGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAHCCIQLSASSLTIRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPEQGSDPKASSEVLITGWGTLSSGASSLPTKLQKVTP
IVDRKTCNANYGAVGADITDNMFCAGILNVGGKDACQGDSSGPPVAANGVLVGAVSWGYYGC
AQAKYPGVYTRVGNYSWIKGKGVVPV

>AAQ24543.1 Allergen Blo t 4 allergen [Blomia tropicalis]

MIVELIVFSLALTIPYQTLASSPYSDPHFQHNRKVITHLMQWKFVDIADECERFLGPYGY
GGVQVSPVNEHASLDRHPWYELYQPVSYRIVSRSGTESQFRDMVHRCNKAGVRIYVDVVL
NHMTGPQSGVGIDGTHYDGNSMQYPGIPFGPNDFHGHESCPTSNLDIQNYDDPTQARNCR
LSGLRDLKQSADYVRTKQADFLNHLIDIGVAGFRFDASKHMPGDLQAIYSKLHHLNEKY
FPSNSNPFYHEVIYSNNAISISDYTKLGRSIEFHYYHEL CNVIRGNNKLKWLHNFQGP
WGMVPND DALIMVD SHDLQRGHTGQLGLNIN YFESRLK VATAFMLAWPYGIPRVMSSYR
WNQKIVNGKDENDWIGPPADGSGSILSVKPNSDLTCNQEWICEHRWKQIYNMVQFRNTAG
DEPVKNWWDNGDYQIAFSRGAKTFIAINLQNGQHLKQNLHTGLPSGNYCNLVTGNVHNGK
CSGQMVHVDGSGHAMISIGANADDHL

>AAQ54603.1 Putative Gly d 2.03 [Glycyphagus domesticus]

MMKFIVL FALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ55550.1 Allergen allergen Lep d 12 [Lepidoglyphus destructor]

MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTHATHEETTSTQHHHEEVT
TQTPHHEEKTTEETHHSDDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWY
ITVMPCSIGTKFDPISRNCVLDN

>AAQ73484.1 Putative type 2 allergen Lep d 2.013 [Lepidoglyphus destructor]

MMKFIVL FALIAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ73486.1 Putative type 2 allergen Lep d 2.023 [Lepidoglyphus destructor]
MMKFIVLFDALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ73487.1 Putative type 2 allergen Lep d 2.024 [Lepidoglyphus destructor]
MKFIVLFDALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGQSVTLDAKFVANQD
SAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKA EVT
AELIGDHGILACGTVNGQVE

>AAQ73488.1 Putative type 2 allergen Lep d 2.025 [Lepidoglyphus destructor]
MMKFIVLFDALVAVASAGNMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ73489.1 Putative type 2 allergen Lep d 2.031 [Lepidoglyphus destructor]
MMKFIVLFDALVAVASAGKMKFKDCGKGEVTELDITDCSGGFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ73490.1 Putative type 2 allergen Lep d 2.035 [Lepidoglyphus destructor]
MMKFIVLFDALNAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ73491.1 Putative type 2 allergen Lep d 2.039 [Lepidoglyphus destructor]
MMKFIVLFDALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGQVE

>AAQ73492.1 Putative type 2 allergen Lep d 2.042 [Lepidoglyphus destructor]
MMKFIVLFDALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVVGTTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIGDHGILACGTVNGTVE

>AAQ73493.1 Putative type 2 allergen Lep d 5.02 [Lepidoglyphus destructor]
MTGVKTHLEHELKRTDLNFLEKFNLD EITATLNVLTKELTEVQKHVKAVESDEVDVAIPN
PDEFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFI
DSAKGHFERELKRADLNLA EKFNFESALSTGAVLHKDLTALATKVKAIETK

>AAQ73494.1 Putative type 2 allergen Lep d 5.04 [Lepidoglyphus destructor]
MTGVKTHLQHELKRTDLNFLEKFNLD EITAPLNVLTKELTEVQKHVKAVESDEVAIPNPD
EFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFIDS
AKGHFERELKRADLNLA EKFNFESALSTGAVLHKDLTALATKVKAIETK

>AAP15199.1 Putative profilin-like protein [Humulus scandens]
MSWQAYVDDHLMCEIDGQHLTAAAIIGHDGSVWAQSSTFPQFKPEEIAAIMKDFEEPGSL
APTGLHLGGIKYVMVIMGEQGA VIRGKKGAGGITVKKTTGAAMIIGIYDEPLTPGQCNMIVE
RLGDYLDQNL

>AAP15200.1 Putative profilin-like protein [Humulus scandens]
MSWQAYVDDHLMCEIDGNHLSAAAIIGHDGSVWAQSAAFPQLKPEEVTGIMNDFNEPGTL
APTGLYLGGTKYMVVIQGEPGA VIRGKKGAGGVTIKKTTSQALIIGVYDEPMTPGQCNMIVE
RLGDYLDQGL

>AAP15201.1 Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVVIQGEPGA VIRGKKGPGGVTIKKTMMALIIGIYDEPMAPGQCNMIVE
RLGDYLLEQGF

>AAP15202.1 Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVVIQGEPGA VIRGKKGPGGVTIKKTMSLIIGIYDEPMTPGQCNMLVE
RPGDYLDQGF

>AAP15203.1 Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDEHLMCDIEGTGHHLTSAAILGHDGTVWAQSSNFPQFKPEEMKGIITEFDQAG

TLAPTGMFIAGAKYMLVQLQGEQGA VIRGKKGAGGICIKKTGQALVMGIYDEPVAPGQCNMV
VERLDYLIDQGM

>AAQ83588.1 Allergen allergen Fra e 1 [Fraxinus excelsior]
MEDVPQPPVSQFHIQQVYCDTCRARFITKLSEFITGASVRLQCRDKENGDVTFTEIGYT
RGEGLYSMFVERDHKNEFCEITLLSSGRKDCNEIPIEGWVKPSLKFILNTVNGTTRTINP
LGFFKKEALPQCAQVYNKLGMYPPNM

>AAQ91847.1 Allergen Ara h 8 allergen [Arachis hypogaea]
MGVFTFEDEITSTVPPAKLYNAMKDADSITPKIIDDVKSVEIVEGNGGPGTIKKTIVED
GETKFIHVKVESIDEANYAYNYSVVGVALPPTAEKITFETKLVGPNNGGSIGKLTLYKH
TKGDAKPDEEELKKGKAKGEGLFRAIEGYVLANPTQY

>AAN11300.1 Allergen Cand a 3; peroxysomal protein [Candida albicans]
MVKVLLALTSYNETFYSDGKKTGVFVVEALHPFEVFRKKGYEIQLASSETGTFGWDDHSVV
PDFLNGEDKEIFDNVNSEFNVALKNLKKASDLDPNDYDIFFGSAGHGTFLFDYPHAKDLQK
IATTVYNKGGVVS AVCHGPAIFENLNDPKTGEPLIKGKKITGFTDIGEDILGVTDIMKKG
NLLTIKQVAEKEGATYIEPEGPWDNFTVTDGRIVTGVNPPQSAVKTAEDVIAAFECN

>AAN18044.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
IGQVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAO22132.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
SDSYCDTCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCNEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPTWNVTI

>AAO22133.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
RTVTGYCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTRAEGLYSMLVERDHKN
EFCEITLISSGRKDCNEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQVY
NKLGMYPNHHGMSR

>AAO33897.1 Allergen Ole e 3 allergen [Olea europaea]
EHERIFKRFDKGDGKISSSELGETLKPLGSVTLEEIQRMMAEIDTDGDGFL

>AAO73464.1 Allergen Der p 11; paramyosin [Dermatophagoides pteronyssinus]
MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSES VTEMNKKRDSSELAKLRKLLLEDVHMESEETAHHLRQKH
QAAVHEMQDQLDQLQKAKNKSDKEKQKFQAEVFELLSQLETANKEKLTALKSVEKLEYTV
HELNIKIEEINRTVIELTSHKQRLTQENTELIKEVHEVKLQLDNANHLKQQAQLEDTR
HRLEEEERKRSSLENHAHTLEVELESLKVQLDDESEARLELERQLTKANGDAASWKSKEYE
AELQAHAVEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAA
AHAQQLEKRVAQLEKINLDLKDKEEVTMLMEQAQKELRIKIGELQKLQHEYEKVRDQRD
QLARENKKLTDDLAEAKSQLNDAHRRHEQEIEIKRLENERDELSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYERLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLK
KKYQAQITELESLDAANKANIDLQKTIKKQALQITELQAHYDEVHRQLQQAQVDQLGVTQ
RRCQALQAELEEMRIALEQASRAKRQAEQLHEEAVVRVNELTTINVNLASAKSKLESEFS
ALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQLRVKLETVKKSLEQEVRTLHV
RIEEVEANALAGGKRVIKLESRIRDVEIEVEEERRRHAETEKMLRKKDHRVKELLQNE
EDHKQIQLLQEMTDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVFTTQEETNY

>AAO91800.1 Allergen Alt a 8; mannitol dehydrogenase [Alternaria alternata]
MPITVPQATELKDLSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFRERKTGSLVITSSMSGHIANFPQEASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMIPMGRDAKATELKGA
YVYFASDASSYCTGSDLLIDGGYCVR

>AAO91801.1 Allergen Cla h 8; NADP-dependent Mannitol dehydrogenase [Cladosporium herbarum]
MPGQQATKHESLLDQLSLKGVVVVTGASGPKGMGIEAARGCAEMGAAVAITYASRAQGA
EENVKELEKTYGIKAKAYKQVDSYESCEKLVKDVVADFGQIDAFIANAGATADSGILDG

SVEAWNHVQVDLNGTFHCAKAVGHHFKERTGSLVITASMSGHIANFPQEQTSYNVAKA
GCIHMARSLANEWRDFARVNSISPGYIDTGLSDFVPKETQQLWWSMIPMGRDGLAKELKG
AYVYFASDASTYTTGADLLIDGGYTTR

>AAP57094.1 Putative arginine kinase [Dermatophagoides farinae]

MVDQAVIDKLEAGFQKLQSSAECHSLLKKYLTRNVLDACKGRKTGMGATLVDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPVIEDYHKGFKPTDKHPQTFDGDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYFPNCLTEAQYKEMEEKVKGQLNSFEGELKGTYYPLLGMDKATQQQ
LIDDHFLFKEGDRFLQAANACRFWPVGRGIFHNDNKTFLIWWNEEEHLRIISMQKGGDLK
QVFSRLINGVNHIEKKLPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKXLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRRMGLTEYQAVKEMQDGILELIKIEKSM

>AAP35065.1 Allergen Der f 29; cyclophilin [Dermatophagoides farinae]

MALPRVFFDIAADNQPLGRIVIELRSDVVPKTAENFRALCTGEKGFQKSSSFHRIIPNF
MIQGGDFTNHNGTGGKSIYGNKFADENFTLQHTGPGIMSMANAGPNTNGSQFFITTVKTT
WLDGKHVVFGSVVEGMDIVKKVESYGSQSGKPSKKVTIANCGQL

>AAP35069.1 Putative Blo t 8 allergen [Blomia tropicalis]

MAPLKIGYWDIRGFAEPIRMLLKHNLNIEFEETRYGFGNDSEESFPNRDEWLAEKFTLGFE
FPNLPYLDGDFKMTESVAILKRLARANGMIATTEPALSSEMIEAMVIDIRNRLVYVIY
AENSGTPEEFEQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
VFKSTPIFEKFAKVSDYMKRFEELPSLKEYIASDEHRSASCLSPFARIGHRWAKE

>AAP35073.1 Allergen Der f 2 allergen [Dermatophagoides farinae]

MVSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDANQNTKT
AKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSENVVTVK
LVGDNGVLACAIATHGKIRD

>AAP35075.1 Allergen Der f 1 allergen [Dermatophagoides farinae]

MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESKYVEAN
KGAINHLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRLSRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVI
IGIKDLRAFQHYDGRTHIQHDL

>AAP35077.1 Allergen Der f 7 allergen [Dermatophagoides farinae]

MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVDPHADKFER
HVGILDFKGEAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEIPDEGNITMTSFEVRQFANVNVNHIGGLSILDPIFG
VLSVLTALFQDTRKEMTKVLAPAFKRELEKN

>AAP35078.1 Allergen Der f 13 allergen [Dermatophagoides farinae]

MASIEGKYKLEKSEKFDEFDLKLGVGFMVKTAAKTLKPTFEVAIENDQYIFRSLSTFKNT
EAKFKLGEEFEEDRADGKRVTVIQKEGDNKFVQTQFGDKEVKIIREFNGDEVVVTASCD
GVTSVRTYKRI

>AAP35082.1 Allergen Der f Gal d 2 allergen [Dermatophagoides farinae]

MKFFLLSFVLMVVAATATYAAHVGSGRDNNNNKPVPAEGFAKASNEFGFHLLKEVIQHR
SSSGSRGSSENVLFSPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNNGGEYQTVAN
SVKQIQNQINQSDQSNQFDWGNMLMVDQQMPVKDQYKKIIEQYYDQVMSVDFRKEKSNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGHH
GQEYKNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPFRERNYDLDKIRQSIN
STFVDEIVGQITGSQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHKAKLILNEQGTEAGAGTYIQMAVLSALETSHTRFDHPFMYFIRHLPTGQILF
LGEIHDF

>AAR17475.1 Allergen Pen c 24; elongation factor 1 beta [Penicillium citrinum]

MGFTDFVSDAGLSLANNYLATRSYIVGHAPSQADVVTYKAFTASPDAEKYPHVARWYKHI
ASYESEFPTLPGDASKAFTAYGPEGSEASANPKDKPAEEEEEEEDLFASDSEDEDPAVVAE
RNKNLEEYKKKKAAGPKPAKSLVTLEVKPWDDDETNL EELEANVRAIEMDGLVWGASKF
VAVGFGIKKLQINL VVEDEK VSTDELQAQIEEDEDHVQSTDVAAMQKL

>AAR21071.1 Putative PR5 allergen Jun r 3.1 precursor [Juniperus rigida]

MARVSELALLLVATLAISLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGGQTWTLN

LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEYTSQSDQDYYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP
>AAR21072.1 Putative PR5 allergen Jun r 3.2 precursor [*Juniperus rigida*]
MARVSELALLLVATLAI SLHMQEAGAVKFDIRNQC GYTVWAAGLPGGGKRLDQGQTWTLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEYTSQSDQDYYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP
>AAR21073.1 Putative PR5 allergen Cup s 3.1 precursor [*Cupressus sempervirens*]
MARVSELALLLVATS AISLHMQEAGAVKFDIKNQC RYTVWAAGLPGGGKRLDQGQTWTVN
LAAGTASARFWGRTGCTFDASGKGSCRS GDCGGQLSCTVSGAVPATLAEYTSQSDQDYYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP
>AAR21074.1 Putative PR5 allergen Cup s 3.2 precursor [*Cupressus sempervirens*]
MARVSELALLLVATLAI SLHMQEAGAVKFDIKNQC GYTVWAAGLPGGGKRLDQGQTWTVN
LAAGTASARFWGRTGCTFDASGKGSCRS GDCGGQLSCTVSGAVPATLAEYTSQSDKDYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP
>AAR22488.1 allergen Mal d 3 [*Malus domestica*]
MACSAVIKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRS GGA VPPACNGIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNV PYKISTSTNCATVK
>1LLT_A Allergen Chain A, Birch Pollen Allergen Bet V 1 Mutant E45s [*Betula pendula*]
GVFN YETETTSVIP AARLFKAFILDGDNLF PKVAPQAISSVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN
>CAD21706.2 Putative Cu /Zn super-oxide dismutase [*Olea europaea*]
MVKAVTVLNSSEGVTGT VYFTQEGDGPTT VTGNLSGLK PGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTA AINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG
>AAR92223.1 Allergen Act d 4; phyto cystatin [*Actinidia deliciosa*]
MVPKPLSLLL FLLLALSAAVVGGRKLVAAGGWRPIESLNSAEVQDVAQFAVSEHNKQAND
ELQYQSVVRGYTQVVAGTNYRLVIAAKDGA VVGNYEAVVWDKPWMHFRNLTSFRKV
>P83542.1 Putative Phospholipase A1 (Allergen Pol g 1) [*Polistes gallicus*]
GITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFKES
>AAS02108.1 Putative FAD-linked oxidoreductase BG60 [*Cynodon dactylon*]
MARSRAFAFALLICAVAASCHVALSAPPPYAKQVERDFLTCLTKDIPPRQLYAKSSPAYA
SVWSSTVRNIKFLSDKTVKPLYIITPTNASHIQAAVVCGRRHGM RIRVRSGGHDYEGLSY
RSEKPEPFAVVD MNKMRAV SIDGKAATAWVDSGAQLGDLYYGI AKASPKLGFPAVCTTI
GVGGHFSGGGFGMLLRKYGTAADNVIDAKVVDAQGRLLDRKAMGEDHFWAIRGGGGESFG
IVASWQVKLLPVPPKVTVFQVHKGIKEGAIDLVT KWQTVAPALPDDL MIRIMAMGQGAMF
EALYLGTC KDLVLLMTARFPELGMNATHCKEMTWIESVPYIPMGPKGTVRDLLNRTSNIK
AFGKYKSDYVLEPIPKSDWEKIFTWLVKPGAGVMIMDPYGGGIASVPESATPFPRRSGL
FNIQYVVYWFGE GAAALPTQWTRDIYDFMTPYVSKNPRQAYVNYRDLDLGVNQVVG NVST
YASGKVWGEKYFKGNFERLARTK GKIDPEDYFRNEQSIPPL
>CAE85467.1 Allergen putative latex allergen hev b 7.02 [*Hevea brasiliensis*]
ATGSTTLTQGKKITVLSIDGGGIRGIIPGILASLESKLQDL DGPDARIADYFDIIAGTS
TGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEYL
RELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSAA
PVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLAL THIRNEIIRQNPRFIGANLTESK
SRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSALF
KSLDCEDYYLRIQDDTLTGEESGHIA TEENLQRLVEIGTRLLEKQESRINLDTGRLESI
PGASTNEAAITKFAKLLSEERKLRQLK
>CAF25232.1 Allergen Pis s 1; 7S globulin/ vicilin-like protein [*Pisum sativum*]
SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPHTLFL

PQYTDADFILVVLGKATLTVLKSNDNRNSFNLERGDAIKLPAGTIAYLANRDDNEDLRVL
DLAIPVKNPGQLQSFLLSGTQNPQLSLLSGFSKNILEAAFNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKKSVSSESGPFNLRSRNPIYSNKF
GKFFEITPEKNQQLQDLDFVNSVDIKEGSLLPNYSRAIVIVTVTEGKGDFELVGQRN
ENQKGENDKEEEQEEETSQVQLYRAKLSPGDVFVIPAGHPVAINASSDLNLIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSHEVDRLKNQKQSYFANAQPLQRE

>CAF25233.1 Allergen Pis s 1; 7S globulin/ vicilin-like protein [Pisum sativum]

SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPRTLFL
PQCTDADFILVVLGKATLTVLKSNDNRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLTIPVKNPGQLQSFLLSGTQNPQLSLLSGFSKNILEAAFNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKKSVSSESGPFNLRSRNPIYSNKF
GKFFEITPEKNQQLQDLDFVNSVDIKEGSLLPNYSRAIVIVTVTEGKGDFELVGQRN
ENQKGENDKEEEQEEETSQVQLYRAKLSPGDVFVIPAGHPVAINASSDLNLIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSHEVDRLKNQKQSYFANAQPLQRE

>Q9NJA9.1 Putative Paramyosin (Allergen Ani s 2) [Anisakis simplex]

MSDTLYRSPSMAIRSSTADMALTSMSVADLGSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLLEESQLENEDAMNVLK
KHQDVCLDYTEQIEQLQKKNKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQLQAENSDLLAEIHDQVQLDNLQHVKYQLAQQLLE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWWSK
FDAEVALHHEEVEDLRKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAEQKMKQLYEKAVEQ
KEALARENKKLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEAARRDA
EARAQRALAEQQVRIEMERRLQEKKEEMEALRKSMMQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNANLEAQKTIKKQSEQIIQLQANLEDTQRQLQQTLDQYAL
AQRKISALSALAELECKTALDNARARKQAEADLEEAHVRISDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALLGGKRVIAKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDTADRMLEKLNQKRLGEAEAMTMQNLQRVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>Q25632.1 Allergen RecName: Full=Tropomyosin; AltName: Full=MOv-14; AltName: Full=Ov-tmy-1 [Onchocerca volvulus]

MDAIKKKMAMKIEKDNALDRADAAEEKVRQMTEKLERIEEELRDTQKKMMQTENDLVKA
QEDLSVANTNLEDKEKKVQEAEEVAALNRRMTLLEEELERAERLKIATDKLEEATHA
DESERVRKVMENRSFQDEERANTVESQEKEAQLLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENEIVELEEELRVVGNLKSLEVSEEKALQREDSYQEQIRTVSVRLKEAETRAE
FAERSVQKLQKKVDRLEDELVHEKERYKNISEELDQTFQELSGY

>AAS47035.1 Allergen Pru av 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Prunus avium]

MGVFTYSDESTSVIPPPRLFKALVLEADTLIPKIAPQSVKTAIEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVNYTLVEGDALSDKIEKITYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVKAGKEKATGLFKLIENYLAANPDACN

>AAS47036.1 Allergen Pru av 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Prunus avium]

MGVFTYADESTSVIPPPRLFKALVLEADTLIPKIAPQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>AAS47037.1 Allergen Pru av 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Prunus avium]

MGVFTYADESTSVITPPRLFKALVLEADTLIPKIAPQSVKGAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVRAGKEKATGLFKLIENYLVANPDAYN

>CAF32566.2 Allergen Group 4 allergen-like [Phleum pratense]

YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIHKASTVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPTVTVFKIPKKASE

GAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCTLTPMMSSKFPPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIKKY

>CAF32567.2 Allergen Group 4 allergen-like [Phleum pratense]

YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIHKASPVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCTLTPMMSSKFPPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIKKY

>AAS67041.1 Allergen Pol d 1; phospholipase A1 [Polistes dominula]

MNFKYSILFICFVKVLDNCYAADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNG
IILKKEILKNYDLFQKSQISHQIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWK
KGACNAFASTNDVLGYSQAVGNTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTS
GFAGKEVQRLKLGKYKEIIGLDPAGPSFLTNCNRLCETDAEYVQAIHTSAILGVYYNV
GSVDFYVNYGKSQPGCSEPCSHTKAVKYLTECIKRECCLIGTPWKS YFSTPKPISQCKR
DTCVCVGLNAQSYPAKGSFYVPVDK DAPYCHNEG IKL

>AAS67042.1 Allergen Pol d 1; phospholipase A1 [Polistes dominula]

ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNCNRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPC
SHTKAVKYLTECIKRECCLIGTPWKS YFSTPKPISQCKR DTCVCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEG IKL

>AAS67043.1 Allergen Pol d 1; phospholipase A1 [Polistes dominula]

ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTSKCPDRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPC
SHTKAVKYLTECIKRECCLIGTPWKS YFSTPKPISQCKR DTCVCVGLNAQSYPAKGSFYV
PVDK DAPYCHNEG IKL

>AAS67044.1 Allergen Pol d 1; phospholipase A1 [Polistes dominula]

ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTSKCPDRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPC
SHTKAVKYLTECIKRECCLIGTPWKS YFSTPKSISQCKR DTCVCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEG IKL

>AAS75297.1 Allergen major allergen Alt a 1 subunit [Alternaria alternata]

MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNLSLGF
NIKATNGGTLDFTCQAQADKLEDHKWYSCGENSFMNFSFGSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGGNGPKDFVCQGVADAYITLVTLPKSS

>BAD13150.1 putative polcalcin Phl p 7 (Calcium-binding pollen allergen Phl p 7) (P7) [Oryza sativa Japonica Group]

MAAASSADMERIFKRFDTNGDGKISLSELTDALRTL GSTSADEVQRMMAEIDTDGDGFID
FNEFISFCNANPGLMKDVAKVF

>AAS75831.1 Putative group 2 allergen Sui m 2 [Suidasia medanensis]

MKFIIILAMFVA VAAAGEMK FQDCGHGEVKKLLVSDCSGDYCIHKGK KLSMEADFVANQD
SPTAVIKISAKVNGVELQVPGIETNGCHHMKCPLVKGQSYQFKYDLVIPQILPNVKADVT
ASLTGAHGLLACGT VHGEVQN

>AAS77253.1 Putative Fel d 4 allergen [*Felis catus*]

MKLLLLCLGLILVCAHEEENVRSNIDISKISGEWYSILLASDVKEKIEENGSMRVFVEH
IKALDNSSLFVHTKENGKCTEIFLVADKTKDGVYTVVYDGYNVFSIVETVYDEYILLH
LLNFDKTRPFQLVEFYAREPDVSQKLKEKFKYKQEHGIVNILDLTEVDRCLQARGSEVA
QDSSVE

>CAG24374.1 Allergen Group 1 allergen-like [*Phleum pratense*]

IPKVPPGNITATYGGKWLDAKSTWYGKPTAAGPKDNGGACGYKDVDKPPFSGMTGCGNT
PIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNEEPIAAYHFDLSGIAFGSMAKKGD
EQKLSAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNPNYLALLVKFVAGDGDVVAVDIKE
KGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGGTKGEAKDVIPEGWKADTCYESK

>P83834.1 Allergen Pathogenesis-related protein (PR-1) (Allergen Cuc m 3) [*Cucumis melo*]

DFVDAHNAARAQVGVGPVHWTVDAYARQYANDRNLVHSATR

>AAS93669.1 Sar s 1 allergen Yv5032C08 [*Sarcoptes scabiei*]

MSFIRFFSIFLLCFVSFLVARIECDEFEIKTFEQFKARFNKTYSNYFIETYRRRVFYRTL
KYVEENKHRGVSINAHADLTVNEFSAKYLSKAPKTEDLLDEYKLFSCDKFEGVKLGELDL
RKEGRVTKIREQLACGSCWAFSVTANVESLLLGSNCTRWSTNDWLSPQQLVDCASDHGCN
GEKTSTGLEYYVQHKGIVKEGVYPYKARVGVCKHPCGPYYHIKSFCGISPPDPDQVKIALS
KTRSALSASIIYDVEHLKNYNGKPLADDGKLIGEQLSHAINIVGYTQRNGVEVWIVRN
SWGETWGDHGYGYFKILPKRGVMGITRMVIVADLGKETVA

>AAS93674.1 Sar s 1 allergen SMIPP-C Yv4028C12 [*Sarcoptes scabiei*]

MERKQFNLLYQLILSVAIITRGYYFETTPSIDDENVRLSDLDWIGEPDDSDFKLPDSFI
RKFQDLMRDLNKKCRNHFSIIKLIHPGLQFCKVPKVYQALPTWFDLRNLELVTPTRDNS
TEKQCKASWAFGPASLESAWLESHDRIASDAFSLAQNLDICAGYQGCNGGVDVIEAFN
YLQEKGVVKEENYKYKGGKHACRWRLFYRRYKIKSYCAICPATVETIKKFLFKHKTALTT
VISVRNLTAFAKNIDDEILYEDEGPSVQRRLVVNIGGWHRHDDATDRDYWVVKNSWGRKWGM
GGYGFVDAEENLFGILDQNYLLSVKDEVIPFEAEPDSD

>AAS93675.1 Sar s 1 allergen SMIPP-C Yv5009F04 [*Sarcoptes scabiei*]

MESKKFKSFLFQLIISAAIITRGYYFETTPSDAEENARLSDVRYTGEPDDPDFKLPDSFI
QKFKKDLRELTRKCRKGFRQARLEHPELQFCKIPKVFQKLPKWFDLRNLELVTPTRDNS
TESKCKASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGCDDGGVDVIEAFN
YMKHKGIVKEEFYKYRAKKHRCRKRRLRARRYKIRSYCAICPATIFTIKKFLFKHKTALTT
VISVRNLTAFAKHIDDEILYEDEGTRVQRRLVVNIVGWHRHDDATDRDYWVVKNSWGKKWGM
GGYGFVDAENNPLHILDHNYLVRVKEDVIPFENEPEDFE

>AAS93676.1 Sar s 1 allergen SMIPP-C Yv6018B11 [*Sarcoptes scabiei*]

LMRELTRKCRKGFRRARLEHPELQFCEIPKVFQKLPKWFDLRNLELVTPTRDNSTEEKKCK
ASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGCDDGGVDVIEAFNYMKHKG
IVKEEFYKYKAKKHHCRKRRLRARRYKIRSYCAICPATIFTIKKFLFKLKTALTTVISVRN
LTAFAKNIDDEILYEDEGPRVQRRLVVNIVGWHRHDDATDRDYWVVKNSWGKKWGMGGYGFV
DAENNPFHILDHNYLVRVKEDVIPFENEPEDFE

>AAR98518.1 Putative major latex allergen Hev b 4 [*Hevea brasiliensis*]

MASLAYSLFILSLFTFTLLNPVCTELDEYLFSFGDGLYDAGNAKFIYDPDKYLPSYHHPYG
TTFFDYPTGRFSDGRTVVDFVAENVSLPRIPPFKNKEANFTYGANFASEGATASDSNPLI
DFRSQIRDFGELKLEWAVQLVNVTELARLKA VYLISFGADDYLYEIPSEASREQLES
IVDVVLGNISDRIKELYDFGARKFVVENVAPLGLIPFIKQTSNDSTLFYELASLHAMKLP
QILEKIQDGYLFPFNFTVFNFYFGIIEIDAPGEHGFKYGDIACCGNSTYRGQACGFLD
YFCVCGNKTEYLFFDGHNTDAANNLLAELMWDKESGFISPYGVKDFFPSPPTTIQTLLT
EATALG

>AAS98889.1 Putative allergen Pen m 2 [*Fenneropenaeus chinensis*]

YNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>AAS98890.1 Putative allergen Pen m 2 [*Fenneropenaeus chinensis*]

YNLQARGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMLDGILELIKMEKEM

>AAT00594.1 Allergen conarachin [*Arachis hypogaea*]

GNTLEAAFNAAFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIKVSKEHVQELTK
HAKSVSKKGSEEDITNPINLRDGPDLNNGFRLFEVKPKKPNQLQDLDMMLTCVEIK

EGALMLPHFNSKAMVIVVVNKG TGNLELVA VRKEQQQRGRREQEWEEEEEEDEEEEGSNRE
VRRYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNRIFLAGDKDNVIDQIEK
QAKDLAFPGSGEQVEKLIK NQRESHFVSAR PQSQSPSSPEKEDQEEENQGGKGPLLSILK
AFN

>AAT00595.1 Allergen conarachin [Arachis hypogaea]

LEAAFN AEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIVKVSKEHVEELTKHA
KSVSKKGSEEEGDITNPINLREGEPDLSN NFGKLFV KPDKKNPQLQDLDMMLTCVEIKE
GALMLPHFNSKAMVIVVVNKG TGNLELVA VRKEQQQRGRREEEEDQEEEGSNREVRRY
TARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNRIFLAGDKDNVIDQIEKQAKD
LAFPGSGEQVEKLIK NQRESHFVSAR PQSQSPSSPEKEDQEEENQGGKGPLLSILKAFN

>AAT00596.1 Allergen conarachin [Arachis hypogaea]

GFDQRSRQFQNLQNHRI VQIEAKPNTL VLPKHADADN ILVIQQGQATVTVANGNNRKSFN
LDEGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFEDFFPASSRDQSSYLQGF
RNTLEAAFN AEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIVKVSKEHVEEL
KHAKSVSKKGSEEGDITNPINLREGEPDLSN NFGKLFV KPDKKNPQLQDLDMMLTCVEI
KEGALMLPHFNSKAMVIVVVNKG TGNLELVA VRKEQQQRGRREEEEDQEEEGSNREVR
RYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNRIFLAGDKDNVIDQIEKQA
KDLAFPGSGEQVEKLIK NQKESHFVSAR PQSQSQSPSSPEKESPEKEDQEEENQGGKGPL
LSILKAFN

>Q7M4I5.1 Allergen Api d 1; phospholipase A2 [Apis dorsata]

IYPGTLWCGHGNVSSSPDELGRFKHTDSCCRSHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDKFYDCLKNSSDTISSYFVGEMYFNILDTKCYKLEHPVTGCGKRTEGRCLNYTVDK
SKPKVYQWFDLRKY

>Q7M4I6.1 RecName: Full=Phospholipase A2; AltName: Full=Phosphatidylcholine 2-acylhydrolase; AltName:
Allergen=Bom p 1 [Bombus pensylvanicus]

IYPGTLWCGNGNIANGTNELGLWKETDACCRT HDMCPDIIEAHGSKHGLTNPADYTRLN
CECDEEFRHCLHNSGDAVSAAFVGR TYFTILGTQCFRLDYPIVKCKVKSTILRECKEYEF
DTNAPQKYQWFDVLSY

>Q7Z1K3.1 Allergen Major allergen Ani s 1 precursor (Excretory gland allergen Ans1) (21 kDa allergen) [Anisakis
simplex]

MASMQHFSLAALLLAASICLGDADRTECQLPLDKGTPCTQEGGVKPSVAWWHDDKSGICL
SFKYTGCGGNANRFTTIKNCEQHCKMPDRGACALGKKPAEDSNGEQLVCAGMREDKCPNG
YQCKMMAFMGLCCPTKEEELFAREYEGVCKSGKPVKMDRGS GWM TILGKSCDDQFCPED
AKCERGKLFANCK

>Q7M1X5.1 Allergen Major pollen allergen Lol p 11 (Lol p XI) [Lolium perenne]

DKGPGFVVTGRVYCDPCRAGFETNVSHNVEGATVAVD CRPFDGGESKLKAEATTDKDGWY
KIEIDQDHQEEICEVVLAKSPDKSCSEIEEFRDRARVPLTSNXGIKQQGIRYANPIAFFR
KEPLKECGGILQAY

>Q7M1E7.1 Putative Polygalacturonase precursor (PG) (Pectinase) (Major pollen allergen Cha o 2) [Chamaecyparis
obtusa]

MGMKFMAAVAFALQLIVMAAAEDQSAQIMLDS DIEQYLR SNRSLK KL VHSRHDAATVFN
VEQYGA VGDGKHDSTEAFATTWNAACKKASAVLLVPANKKFFVNNLVFRGPCPHLSFKV
DGTIVAQPDPARWKN SKIWLQFAQLTDFNL MGTGVIDGQQQWWAGQCKV VNGRTVCNDR
NRPTAIKIDYSKSVTVKEL TLMNSPEFHL VFGECEGVKIQGLKIKAPRDS PNTDGIDIFA
SKRFHIEKCVIGTGDDCIAIGTGSSNITIKDLICGPGHGISIGSLGRDNSRAEVSHVHVN
RAKFIDTQNGLRITWQGGSLASYITYEN VEMINSENPI LINQFYCT SASACQNQRSAV
QIQGVTYKNIHGTSATAAAIQLMCSDSVPCTGIQLSNVSLKLTSGKPASCVDKNARGFYS
GRLIPTCKNLRPGPSPKEFELQQPTTVM DENK GACAKGDSTCISLSSPPNCKNKCKGC
QPCKPKLIIVHPNKPQDYYPQKWVCSCHNKIYNP

>AAT40866.1 Allergen Tyr p 10; tropomyosin [Tyrophagus putrescentiae]

MDAIKNKMQAMKLEEDNAIDRAEIAEQKARDANL KSEKTEEEV RALQKKIQQIENELDQV
QENLTQATTKLEEKEKALQTAEADVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERM RKM LEHR SITDEERMDGLES QLKEARLMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKAQQREEA YEQQIRIMTSKLKEAEARAE

FAERSVQKLQKEVDRLLEDELVHEKEKEYESISDEL DQTF AELTGY

>AAT45383.1 Allergen Lat c 1; parvalbumin beta [*Lates calcarifer*]

MAFSNVLSDSDVAAALDGCKDAGTFDHKKFFSACGLSNKTSDDVKKAF AIDQDKSGFIE
EEELKFLFNFKADARVLT DVETSTFLKAGDTDGDGKIGADEFTALVKP

>AAT66566.1 Putative major allergen alt a1 [*Stemphylium vesicarium*]

ALFAAAGLAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNLSFN I KATNK
GTLDFTC SAQADKLEDDKFYSCGENSFMSFAFQSDRNGLLFRQDVSDEITYVATATLPNY
CHAGGNGPKDFVCQGV S

>AAT66567.1 Putative major allergen alt a1 [*Stemphylium callistephi*]

TLFAAAGLAAAAPLEAPQANTTCPVSTQGDYVWKISEFSGRKPEGTYYNLSFN I KATNG
GTLDFTC SAQADKLEED EDEFYSCGENSFISFAFQSDRSGLLLRQDVSDEITYLATATLPNY
CRAGGNGPNDFICQGV S

>CAE52833.1 Allergen Pla a 2; polygalacturonase [*Platanus x acerifolia*]

RGVQSSGSVFNVDY GAKGAGDISQAVMKA WKAACASQGPSTVLIPKGNYNMGEVAMQGP
CKGSKIGFQIDGVVKAPADPSKFKSDGWVSFYRIDGLTVSGTGTL DGQGQTAWAKNNCDK
NPNCKHAAMNLRDFLKHAMVRDITSLNSKMFHINVLECE DITFQHVTVTAPGTSINTDG
IHVGISKGVTITNTKIATGDDCISIGPGSQNV TITQVNCGPGHGISIGSLGRYNNEKEVR
GITVKGCTFSGTMNGVRVKTWPNSPPGAATDLTFQDLTMNNVQNPVILDQEYCPYGQCSR
QAPSRIKLSNINFNNIRGTSTGKVAVVIACSHGMPCSNMKIGEINLSYRGAGGPATSTCS
NVKPTFSGKQVPAIKCA

>AAO67349.2 Allergen Cor a 12; oleosin [*Corylus avellana*]

MADRPQQLQVHPQRGHGHYEGGIKNQRGGGPSAVKVM AVLAALPVGGTLLALAGLTLAGS
VIGLLVTSPLFIIFSPVLVPA AIVVGLAVASFLSSGALGLTGLSSLSWVLN YLRCASQSL
PREMDQAKRRMQDMAAFV GQKTREVGQEIQSRAQEGRRT

>CAH03799.1 Allergen Cit s 3; lipid transfer protein (LTP) type 1 [*Citrus sinensis*]

ITCGQVTGSLAPCIVYLRSGGPIPVCCNGVRS LNAAARTTPDRQTACNCLKQAAGSIPN
LNPNNAVGLPRACGV SIPYKISISTDCSKVR

>AAT77152.1 Putative arginine kinase [*Periplaneta americana*]

MVDAAVLEKLEAGFAKLAASDSKSLK KYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDDL G
QVYRRLVTA VNDIEKRIPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>AAT80649.1 Allergen Mal d 3; lipid transfer protein (LTP) type 1 [*Malus domestica*]

MASSAVTKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRNGGAVPPACCN GIRTINS
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNV PYKISTSTNCATVK

>AAT80659.1 lipid transfer protein precursor [*Malus domestica*]

MASSAVIKLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRS GGPVPPACCN GIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNP GNAESLPGKCGVNV PYKISTSTNCATVK

>AAT80662.1 lipid transfer protein precursor [*Malus domestica*]

MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRS GGPVPPACCN GIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNP GNAESLPGKCGVNV PYKISTSTNCATVK

>AAT80664.1 Allergen Mal d 3; lipid transfer protein (LTP) type 1 [*Malus domestica*]

MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRS DGPVPPACCN GIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNP GNAESLPGKCGVNV PYKISTSTNCATVK

>AAT80665.1 Allergen Mal d 3; lipid transfer protein (LTP) type 1 [*Malus domestica*]

MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRS GGPVPPACCN GIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNP GNVESLPGKCGVNV PYKISTSTNCATVK

>AAT95008.1 Putative allergen Sol i 1 precursor [*Solenopsis invicta*]

MRKFAAIFVFFVQCTHLYSLAQARAEPDGPVVEYLKQSCVYGNSSYINVYLYNSRFQ GK
NLGNQQSCQDINASLPVVFITHGFTSSAQVSTFKDLANAFVQK GHTAFIVDWSEAACTDG
LPGVQFAEYNAASNTYDIGQLMAKYTV DLMNKCKIPLNNIQYVGHSLGSHVCGFAAKHV
KKLINKTMPYILALDPADPSFGSNKCGERICKSDAKRIVVFKTSILGIGENIIGHLLIVF

DGGKSQPACSWYDVPCHSHSIVYATGMVSGRCQH LAVPWTAQQRINPIQWKFWRVFTSN
IPAYPTSDTTNCVVLNTNVFKNDNTFEGEYHAFPCARNLFKCRQQ

>AAT95009.1 Allergen allergen Pol e 5 precursor [Polistes exclamans]

MEIGGLVYL VIVVAIIHSSQGV DYCKIRCPSGIHTVCQYGESTKPSKNCAGKVIKSVGPT
EEEKKLIVSEHNRFRQKVAQGLETRGNPGPQPAASDMNDLVWNDELAHIAQVWASQCQFL
VHDKCRNTAKYPVGQNIAYAGGSKLPDVVSLIKLWENEVKDFNYNTGITKQNF AKIGHYT
QMVGWKTKEIGCGSLKYMENKMQNHYLICNYGPAGNYLGQLPNTTK

>AAT95010.1 allergen Pol d 5 precursor [Polistes dominula]

MKISCLICLVIVLTHLSQANDYCKIKCSSGVHTVCQYGESTKPSKNCAGKLIKSVGPT
EEEKKLIVEEHNRFRQKVAKGLETRGNPGPQPAASNMNNLVWNDELAKIAQVWASQCQIL
VHDKCRNTEKYQVGQNIAYAGSSNHFPSVTKLIQLWENEVKDFNYNTGITNKNFGKVGHY
TQMVWGNTKEVCGSLKYVEKNMQIHYLICNYGPAGNYLGQPIYTKK

>BAD36780.1 Putative pilosulin 4 [Myrmecia banksi]

MKLSCLLLTLAIIIFVLTIVHAPNVKAKALADPESDAVGFADAVGEADPF DITKLNKIKLT
KATCKVISKGASMCKVLFDKKKQE

>AAT99258.1 Allergen Sal k 1; pectin methylesterase [Salsola kali]

MEEHVSMMLVGVFLINIAFTSIAQLIPPNAELESWFQGA VKPVSEQKGLEPSVVQTESG
GVETIEVRQDGS GKFKTISDAVKHVKVGNTKRVIITIGPEYREKVKIERLHPYITLYGI
DPKNRPTITFAGTAAEFGTVDSATVIVESDYSVGAHLIVTNSAPRPD GKRKGAQAGALRI
SGDRAAFYNCKFTGFQD TVCDDKGNHFFDCYTEGTVD FIFGEARSLYLNTELHV VPGDP
MAMITAHARKNADGVGGYSFVHCKVTGTGGTALLGRAWFDAARV VFSYCNLSDAAKPEGW
SDNNKPEAQKTILFGEYKNTGPGAAPDKRAPYTKQLTEADAKTFTSLEYIEAAKWLLPPP
KV

>Q9LD79.2 Putative Pathogenesis-related protein precursor (Potential major pollen allergen Jun v 3) [Juniperus virginiana]

AFLLAATLTIS SHMQEAGAVKFDIKNQC GYTVWAAGLPGGGKRLDQGQTWTVNLAAGTAS
ARFWGRTGCTFDASGKGSCQTGDCGRQLSCTVSGAVPATLA EYTQSDQDY

>P15322.2 Allergen Allergen Sin a 1 precursor (Sin a I) [Contains: Allergen Sin a 1 small chain; Allergen Sin a 1 large chain]

PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTL DDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELCVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIRQVSVCPFKKTM PGPS

>AAU11502.1 Allergen Try p 13; fatty acid-binding protein [Tyrophagus putrescentiae]

MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGD SYTIKTSSTLKNS
EIKFKLGEEFEEDRADGKKVQTSVTKEGDNKL VQVQKGDKPV TIVREFSEEGLT VTATVN
GVTSVRFYKRQ

>AAU21500.1 Allergen Ara h 10; oleosin [Arachis hypogaea]

MTDRTQPHAVQVHTTAGRFGDTAAGTNR YADRGPSTSKVIAVITGLPIGGTLLL FAGLAL
AGTLLGLAVTTPLFILFSPVIVPATIVVGLSVAGFLTSGACGLTGLSSFSWVMNYIRQTH
GSVPEQLEMAKHRMADVAGYVGQKTKDVGQ

>P84159.1 Allergen Germin-like protein (Allergen Cit s 1) [Citrus sinensis]

TDPGHLQDVXVAINDPKXGVFVNRK

>P84160.1 Allergen Nonspecific lipid-transfer protein (LTP) (Allergen Cit l 3) [Citrus limon]

ITCGQVTGSLAPXIPFLRTG

>P84161.1 Allergen Nonspecific lipid-transfer protein (LTP) (Allergen Cit s 3.0101) [Citrus sinensis]

ITXGQVTGSLAPXIAFLRTK

>P67875.1 Allergen Ribonuclease mitogillin precursor (Major allergen Asp f 1) (Asp f I) (Allergen I/a) (IgE-binding ribotoxin) [Aspergillus fumigatus]

MVAIKNLFLLAATAVSVLAAPSPLDARATWTCINQQLNPKTNK WEDKRLLYSQA KAESNS
HHAPLSDGKTGSSYPHWFTNGYDGNKLIKGRTPIKFGKADCDRPPKHSQNGMGKDDHYL
LEFPTFPDGH DYKFDSKKPKEDPGPARVIYTYPNKVFCGIVAHQRGNQGD LRLCSH

>CAD54670.2 Allergen Phl p 4; berberine bridge enzyme [Phleum pratense]

SSCEVALSYPTPLAKEDFLRCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PIYIVTPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAV

WVDGKARTAWVDSGAQLGELYAIHKASPVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPTVTVF
KIPKKASEGAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCQTLTPMMSSKF
PELGMNASHCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPEV
WEQIFSTWLLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNQYVNYWFAPGAGAA
PLSWSKEIYNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQ
RLAITKGGKVDPTDYFRNEQSIPPLIQKY

>CAD54671.2 Allergen pollen allergen Phl p 4, partial [*Phleum pratense*]

SSCQVAFSYFPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIKNSRWSSPDNVK
PLYIITPTNVSHIQSAVVCGRRHRSVRIRVRSGGHDYEGLSYRSLQPETFVAVDLNKMRAV
WVDGKARTAWVDSGAQLGELYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPTVTF
KISKTVSEGAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCQTLTPMSSKF
PELGMNPSHCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQPFKPTV
WEQILNTWLKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNQYVNYWFAPGAAAA
PLSWSKDIYNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVVWGQKYFKGNFE
RLAITKGGKVDPTDYFRNEQSIPPLIKKY

>AAV33670.1 Putative 18 kD winter accumulating protein A [*Morus bombycis*]

MGVFTDDEFTSTVAPARFFKAAVLDADNLFKVPAPQAAKSAETVEGNGGPGTVKKITLP
DGKYVKQRLDSIDHDNFTYGHSHIEGDVLSADIEKISHVTKFVASPSGGSIKVTTFHT
VGDAPVDEAKAKEGKEKAEGFLKLEGEYLEANPSAYN

>AAV33672.1 Putative 18 kD winter accumulating protein C [*Morus bombycis*]

MGVSTHNDEFTSTVAPARLFKAAVLDADNLFKPIAPDAAKSAENIEGNGGPGTIKKITFP
DGKYVKQKLDALDLDNYSYSHSHIEGDILSAELEKISHETKFVAAPGGGSVIKVTTFHT
VGNATVDEAKAKEGKEKAAGFLKLEGEYLEANPSAYN

>AAT37679.1 Allergen Rho m 2; serine protease [*Rhodotorula mucilaginosa*]

TMELLEDLIEQVRQLPMVNFIEKNSLVHANEFTVAKGAPWGLARISHRDPLSLGSFDQYL
YDSNGGTGVTSYVIDTGVNVHHEQFEGRAKWGKTIPQGDDEDGNGHGHGTHCAGTIGSNAY
GVAKNAEIVAVKVLRSNGSGSMSDVIKGVFAVKSHQDSVKKGKNSFSTANMSLGGGKSP
ALDLAVNAAVKAGLHFAVAAGNENQDACNTSPASAENAITVGASTISDARAYFSNYGKCV
DIFAPGLNILSTYIGSDAATAYLSGTSMASPHIAGLLTYYLSLQSSDSEFFIGAEGITP
AQLKKNLIAFGTPDVLADIPADTPNILAFNGAGQNLTKFWGH

>AAV40850.1 Allergen lipid transfer protein 1 precursor [*Prunus persica*]

MAYSAMTKLALVVALCMVVSVPVIAQAITCGQASSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>P02604.3 Putative RecName: Full=Myosin light chain 1, skeletal muscle isoform; AltName: Full=Alkali myosin light chain 1; Short=MLC-1; AltName: Full=Myosin light chain 1f; AltName: Full=Myosin light chain alkali 1; Short=Myosin light chain A1; AltName: Full=Skeletal-muscle [*Gallus gallus*]

MAPKKDVKKPAAAAAPAPAPAPAPAPAKPKPAIDLKSIKIEFSKEQDDDFKEAFLLF
DRTGDAKITLSQVGDIVRALGQNPTNAEINKILGNPSKEEMNAKKITFEEFLPMLQAAAN
NKDQGTDFEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMTVEEVEELMKGQEDSNGCI
NYEAFVKHIMSV

>CAH92627.1 Putative pollen allergen Sec c 4 [*Secale cereale*]

NYRAFALALLFCALSCQAAAAAYAPVPAKADFLGCLMKEIPARLLYAKSSPDYPTVLAQT
IRNSRWSSPQNVKPIYIITPTNASHIQSAVVCGRRHGIRLRVRSGGHDYEGLSYRSEKPE
TFAVVDLNMRAVSVDGYARTAWVESGAQLGELYAIAKNPVLAFPAGVCPSIGVGGNF
AGGGFGMLLRKYGIAAENVIDVKVVDPNKLLDKSSMSADHFWAVRGGGGESFGIVVSWQ
VKLLPVPTVTVLKIPKTVQEGIDL VNKWQLVGPALPGDLMIRIILAGNSATFEAMYLG
TCSTLTPLMSSKFPELGMNPSHCNEMSWIKSIPFIHLGKQNLDDLNRNNTFKPFAEYKS
DYVYQPFKPVWEQIFGWLKPGAGIMIMDPYGATISATPEAATPFPHRQGVLFNFIQYVN
YWFAESAGAAPLQWSKDIYKFMPEYVSKNPRQAYANYRDIDLGRNEVVNDISTYSSGKVV
GEKYFKGNFQRLAITKGGKVDPDYFRNEQSIPPLVEKY

>CAH92630.1 Putative pollen allergen Sec c 4 [*Secale cereale*]

NSRAFALVPLLICVLSCHAAVSYAAAPVPAKEDFFGCLVKEIPARLLYAKSSPAFPTVLA

QTIRNSRWSSPQSVKPLYIITPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSER
PEAFVVDLNMRAVVVDGKARTAWVDSGAQLGELYAIAKNSPVLAFPAGVCPTIGVGG
NFAGGGFGMLLRKYGIAAENVIDVKVVDANGTLLDKSSMSADHFWAVRGGGGESFGIVVS
WQVKLLPVPTVTVFKIPKTVQEGAVELINKWQLVAPALPDDLIRIIAFGGTAKFEAMY
LGTCKALTPLMSSRFPELGMNASHCNEMPWIKSVPFHILGKQATLSDLLNRNNTFKPFAE
YKSDYVYQVPKPVWAQIFVWLKPGAGIMVMDPYGAAISATPEAATPFPHRKDVLFNQ
YVNYWFDEAGGAAPLQWSKDMYRFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYASG
KVWGEKYFKGNFQRLAITKGKVDPPQDYFRNEQSIPPLL GK

>CAH92637.1 Allergen pollen allergen Lol p 4 [*Lolium perenne*]

AVVCGRRYDVRIRVRSGGHDYEGLSYRSLQPENFAVVDLNMRAVLVDGKARTAWVDSGA
QLGELYAISKYSRTLAFPAGVCPTIGVGGNLAGGGFGMLLRKYGIAAENVIDVKLVDAN
GKLHDKKSMGDDHFWAVRGGGGESFGIVVSWQVKLLPVPTVTIFKIPKSVSEGAVDIIN
KWQLVAPQLPADLMIRIAMGPKATFEAMYLGTCKTLTPMMQSKFPELGMNASHCNEMSW
IESIPFVHLGHRDSLEGDLLNRNNTFKPFAEYKSDYVYEPFKSVWEQIFGTWLKPGAG
IMIFDPYGATISATPEAATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEIYNYMEPY
VSKNPRQAYANYRDIDLGRNEVVNGVSTYSSGKVWGQKYFKGNFERLAITKGKVDPTDYF
RNE

>CAI05848.1 Allergen mite allergen Der f 2 [*Dermatophagoides farinae*]

MISKILCSSLVAADVADQVDVKDCANHEIKKVMVDGCHGSDPCIHRGKPFNLEAIFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>CAI05849.1 Allergen Der f 2 [*Dermatophagoides farinae*]

MISKILCSSLVAADVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHAKIRD

>CAI05850.1 Allergen mite allergen Der f 2 [*Dermatophagoides farinae*]

MISKILCSSLVAADVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>CAI23765.1 Allergen Cit s 2; profilin [*Citrus sinensis*]

MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIIQGEAGAVIRGKKGSGGIIVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>AAV74343.1 Allergen Fra e 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [*Fraxinus excelsior*]

EDVPQPPVSLFYVQGGVYCDTCRAGFITELSEFIQAGVRLQCKEKENGKVTFTVEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCHEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEALPKCPQVYNKLGMYPPNM

>P84296.1 Allergen Chi t 3; hemoglobin CTT-VIIB4 [*Chironomus thummi thummi*]

MKFFAVLALCIVGAIASPLTADEASLVQSSWKA VSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNASNAAAVEGLLNKLGSDHKARGVSAQA
FGEFRTALVSYLSNHVSWGDNVAAAWNKALDNTMAVAVVAHL

>P84298.1 Allergen Chi t 3 ; hemoglobin CTT-VIIB-5/CTT-VIIB-9 [*Chironomus thummi thummi*]

MKFFAVLALCIVGAIASPLTADEASLVQSSWKA VSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNTSNAAAVNSLVSKLGDDHKARGVSAQA
FGEFRTALVAYLQANVSWGDNVAAAWNKALDNTFAIVVPR

>P02226.2 Allergen Chi t 3 ; hemoglobin CTT-VIIA1 [*Chironomus thummi thummi*]

MKFFAVLALCIVGAIASPLSADQAALVKSTWAQVRNSEVEILAAVFTA YPDIQARFPQFA
GKDVASIKDTGAFATHAGRIVGFVSEIIALIGNESNAPAVQTLVGQLAASHKARGISQAQ
FNEFRAGLVSYVSSNVAVNAAESA WTAGLDNIFGLLFAAL

>BAD77932.1 Putative class IV chitinase [*Cryptomeria japonica*]

MQIMATQNSKSNIFWSSASVVLVLLLVDVGVQCNCGCNGLCCS QYGYCGSGEAYCGAG
CKEGPCSSSSPSTGTGVGSIVSSDVFN SIVGGAASGCAGNGFYTYDSFISAANAFNGFG
TSGSSDVNKREIAAFFANA AHETGGFCYIEEQNPTS IYCDASNTQYPCASGKTYHGRGPL
QLSWNYNYGAAGSYIQFDGLN NPEIVGTDSTISFKTAVVFWMVNSNCHTAITSQGFGAT

IRAINSMECDGGNAATVASRVNYYQKFCQQLNVDTGSNLQC

>AAV97933.1 Allergen Lat c 1; parvalbumin beta [*Lates calcarifer*]

MAFAGILNEADITAALAACQAADSFKHKDFVVKVGLAGKSDDDVKKAFVIDQDKSGFIE
EDELKLFQNFASARALTAETKEFLKAGDSDGDGKIGVDEFAALVKV

>AAW29810.1 Allergen Jug r 4; 11S globulin/legumin- like protein [*Juglans regia*]

MAKPILLSIYFLIVALFNGCLAQSGGRQQQFGQCQLNRLDALEPTNRIEAEAGVIESW
DPNNQQFQCAGVAVVRRRTIEPNGLLLPQYSNAPQLVYIARGRGITGVLFPGPCPETFEESQ
RQSQQGQSREFQQRHQRIRHFREGDIIAFPAGVAHWSYNDGSNPVVAISLLDTNNNANQ
LDQNPRNFYLAGNPDEFPRPQGQEQEYEQHRRQQQRQRPGEHGQQQRGLGNNVFSGFADAD
FLADAFNVDTETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERERES
ESERRQSRGGRDDNGLEETICTLRLRENIGDPSRADIYTEEAGRISTVNSHTLPVLRWL
QLSAERGALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTIP
QNFAVVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLATAFQIPREDARRLK
FNRQESTLVRSRPSRSRSSRSERRAEV

>AAP13533.2 profilin [*Cucumis melo* var. *cantalupo*]

MSWQVYVDEHLMCEIEGNHLTSAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTKYMWIQGEPGAVIRGKKGGPGGVTVKKTGMLVIGIYDEPMTPGQCNMIVE
RLGDYLDQGL

>CAE17316.1 Putative villin 1 [*Nicotiana tabacum*]

EGGGKIEVWRINGSAKTPVPGDDIGKFYSGDCYIVLYTYHCNDRKEDYYLCWWIGKDSVE
EDQNMAAKLASTMCNSLKARPVLRVYQGKEPPQFVAIFQPMLVLKGGGLSSGYKSYIADK
GLNDETYTADSVLIRLSGTSVHNNKAVQVDAVATSLNSNECFLLQSGSSVFSWHGNQST
YEQQQLAAKVAEFLKPGVTVKHAKEGTESSTFWFALGGKQSYTSKKIASEVARDPHLFAY
SFNKGKFEIEEYIYNSQDDLLTEDVLLLDTHAEVFWVWGQSSDPKEKQSSFEVGQKYIEM
AASLEGLSPHVPLYKVMEGNEPCFFTTFFSWDPAKAIHAGNSFQKKVMLLFGVGHASENQ
QRFNGTNQGGATQRASALAALNSAFSSSSPAKSSSAPRSAGKSPGSQRAAAIAALSSALS
AEKKQPPEGGSPRLSRTSSVDAIAPGNEVSTAEIEDSKEVPERKEIETVEPAETDGEDV
GPKPEPEQDETGNDSSTTFYERLKAIXENPVGTGIDLKRREAYLSDEEFESVLEMTKEA
FYKLPKWKQDIHKKKVDLF

>CAE17317.1 Putative villin 2 [*Nicotiana tabacum*]

REDYYLCWWIGKDSIEEDQSMARLASTMCNSFKGRPVLGRVVFQKKEPPQFVAIFQPMLV
LKGGLSSGYKNYIADKGLNDETYAADSVALIRLSGTSVHNNKAVQVDAVPASLNSNECFL
LQSGSSIFSWHGNQSTYEQQQLAAKVAEFLKPGATVKHTKEGTESSAFWFAVGGKQSYTS
KKVATEVSRDPHLFAYSFNKGKFEVEEYIYNSQDDLLTEDILLLDTHAEVFWWIGQSADS
KEKQSAFDVGQKYVEMAASLEGLSPNVPLYKVTEGNEPCFFTTFFSWDPAKRSAHGNSFQ
KKVMLLFGVGHASENQQRNNGSGGPTQRASALAALNSAFSSSPPKSSSAPRPAGTSSAS
QRAAAIAALSGVLTAEKKQSSEGGSPVRSNRSSPVRSSRSPVRSADSGPTENDLSTA
QDSEKASEPKEIVEPAESNGSEPKPEAEQDEGGNESGQAIFSYEQLKAKSDNPVTGIDFK
RREAYLSDEEFESVLGMKKEAFYKLPKWKQDMHKRVDLF

>AAW69549.1 Allergen Cuc m 2; profilin [*Cucumis melo*]

MSWQVYVDEHLMCEIEGNHLTSAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTKYMWIQGEPGAVIRGKKGGPGGATVKKTGMLVIGIYDEPMTPGQCNMIVE
RLGDYLDQGL

>CAG26895.1 Allergen Arg r 1 precursor [*Argas reflexus*]

MALIILLVACLSVVSADDCSGKTDWTSIKGPKTGGYWLKQTTKTGENECTYVKGTDFKE
NTKTATYTYGYKDASGKLTKTGTATAKGSDIVVGSSTSTVIYTDGKTCDEVVKHGGHTEL
WVHSSKTSGGYNNCCDKKFTETRGSTPANEVYKKCPGMP

>NP_001011564.1 Allergen Api m 11; major royal jelly protein [*Apis mellifera*]

MIRWLLMYLGITCQGVTDIHSRNLNSLKVYIEWKYIDYDFGSDEKRQAAIQSGDYNNT
MNYLLDTDQWGDKTFVIIMKFNQVPSLNVITNKTGNGGPLLAPYDPDWTWAKNENCSGIT
SAYKIEIDMCDRLWVLD SGLINNVRSVCPQLLVFDLNTSLLKQVKIPHDIAVNTTTEK
GALVTLVQLLSCEVNGSTLVYIGDNEGFALIIYNNSDNSFQRLTSSTFASDPRYTFTI
NGESFTLQSGIFGMALSPLTQNLYYSSALSSHNLNYVNTEQFVKSQYQANNVHYQGKENIL
WTQASAKGISDNGVLFGLVGDTSLACWNENRLLDRRNIEVVAKNKETLQAITGLKVKRR

ISFILVHGFPLEYEYVLA VSNRIQKVIYGFDFNDVNFRI LIANVNDLIKNTRCISP

>AAW81034.1 Allergen Cro s 2; profilin [*Crocus sativus*]

MSWQTYVDEHLMCDMDGHVLTSAAILGHDGSVWAQSAGFPPELKPAEITAILNDFNEPGSL
APTGM YINGAKYMVIQGEPPVIRGKKKSGGVTIKKSNMALIFGLYDEPMPGQC NLVVE
RLGDYLIEQGY

>P69199.1 polcalcin, partial sequence [*Brassica rapa*]

MADATEKAEHDRIFKKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYI
SYQEFSDFFASANRGLMKDVAKIF

>AAX11194.1 Putative 60S acidic ribosomal P1 phosphoprotein Pen b 26 [*Penicillium brevicompactum*]

MSTAELAVSYAALILADDGIEVSADKIQTILGAAKVQEVEPIWATIFAKALEGKDIKEIL
TNVGSAGPATAGAPAAAGAAAPAEKKKEEKEEKEEESDEDMGFGLFD

>AAX11261.1 Allergen Sal k 1; pectin methylesterase [*Salsola kali*]

QPIPPNPAELESWFQGA VKPVSEQKGLEPSVVQAESGGVETIEVRQDGS GKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIEGLHPYITLYGIDPKNRPTITFAGTAAEFGTVDSA
TLIVESDYFVGANLIVSNSAPRPAGKRKGAQASALRISGDRAAFYNCKFTGFQD TVCDDK
GNHLFKDCYIEGTVDLIFGEARSLYLNTELHVVP G DPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEAARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFG EYKNTGPG
AADKRVPYTKQLTEADAKTFTSLEYIEAAKW LPPPKV

>AAX11262.1 Allergen Sal k 1; pectin methylesterase [*Salsola kali*]

QPIPPNPAELESWFQGA VKPVSEQKGLEPSVVQAESGGVETIEVRQDGS GKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFGTVDSA
TLIVESDYFVGANLIVSNSAPRPDGKRKGARASALRISGDRAAFYNCKFTGFQD TVCDDK
GNHLFKDCYIEGTVDLIFGEARSLYLNTELHVVP G DPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEAARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFG EYKNTGPG
AADKRVPYTKQLTEADAKTFTSLEYIEAAKW LPPPKV

>AAX14379.1 Allergen Cla h 9; serine protease [*Cladosporium herbarum*]

MRGALAGLSLATLATASPVLVNSIHNDAAPIISASNAKEIADNYMIKFKDHVTQNLAAEH
HGWWQDLHEKTQVAKTELKRSQSPMVDDIFNGLKHTYNIAGGLMGYAGHFDEDVIEQIR
RHPDVELVERDQEVHVLGSESEVEKNAPWGLARISHRDSLSFGTFNKYLYTEDGGEGVDV
YVVDTGTVNDHVDVEGRASWGKTIPQGDAD EDGNHGHTHCSGTVAGKKYGVAKKAHV KAV
KVLRSNGSGSMSDVVKGVEYAAESHLEQVSITKKGKRKGFKGSTANMSLGGGKSPILDKA
VNAAVDAGIHFAVAAGNDNADSCNYS PAA AENA VTVGASTLADERAYFSNYGKCNDIFAP
GLNIQSTWIGSKYAVNTISGTSMASPHVAGLLAYLLSLQPAKDSAFVADISP KKLKANL
ISIATV GALTDVPSNTANILAWNGGESNYS AIVEKGGYKATHRPTMLEEIESEAKVASK
KVYSEGDELAHKVAELTEKVEDLIAGELKDMFRELKRE

>AAX19848.1 thaumatin-like protein precursor [*Malus domestica*]

MMKSQVASLLGLTLAILFFSGAHA AKITFTN NCPNTVWPGTLTGDQKPQLSLTGFELASK
ASQSV DAPSPW SGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDY YDVS LVDGFNL PMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADG SVISC
KSACLA FGDSKYCCTPPNDTPETCPPT EYSEIFEKQCPQAYSYAYDDKNSTFTCSGGPDY
VITFCP

>AAX19851.1 thaumatin-like protein precursor [*Malus domestica*]

MMKSQAASLLGLTLAILFFSGAHA AKITFTN NCPNTVWPGTLTGDQKPQLSLTGFELASK
ASQSV DAPSPW SGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDY YDVS LVDGFNL PMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADG SVISC
KSACLA FGDSKYCCTPPNDTPETCPPT EYSEIFEKQCPQAYSYAYDDKNSTFTCSGGPDY
VITFCP

>AAX19854.1 profilin 1 [*Malus domestica*]

MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGE GGA VIRGKKKSGGVTV KKTGQALVFGIYEETLTPGQC NMIVE
RLGDYLIDQGL

>AAX19856.1 profilin 1 [*Malus domestica*]

MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGE GGA VIRGKKKSGGVTV KKTGQDLVFGIYEEPLTPGQC NMIVE

RLGDYLIDQGL

>AAX19858.1 profilin 2 [*Malus domestica*]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPPGVVIRGKKKGGPGGVTVKKSTMALLIGIYDEPMPGQCNCMVVE
RLGDYLIEQGL

>AAX19860.1 profilin 2 [*Malus domestica*]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEPPGVVIRGKKKGGPGGVTVKKSTMALLIGIYDEPMPGQCNCMVVE
RLGDYLIEQGL

>AAX19889.1 Allergen Vig r 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [*Vigna radiata*]

MAVFTFDDQATSPVAPATLYNALAKDADNIIPKAVGSFQSV EIVEGNGGPGTIKKISFVE
DGETKFLVHKIESVDEANLGYSYSIVGGVALPDTAEKITIDTKISDGADGGSLIKLTISY
HGKGDAPPNEDELKAGKAKSDALFKAVEAYLLANP

>AAX33727.1 Putative Per a 2 allergen [*Periplaneta americana*]

MTFLIQSAFVALAAISAVLCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPSASCVSGGCNCANVHKYYSNKPVSNNVASVPILGSGYANGSEAHDYIAVSTLNA
TNQGFLADDISNDICSLGADCVIGLGRPKSGRAAFNLPTVMENFVNQDNIANSFSFHG
RYPDGQHRGVLVLGGPIPAYRGDFTYVPLVDQDTWNFKVDSISVGNVIATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTL CVFDCDKLDNVPSVTFTIGGVAFNISSTY
QIQQNGDLCYSGFQYSAGKCFHFGDFMDNYYGEFDGQNKRMGFAKSVEEL

>AAX33728.1 Putative Per a 4 allergen [*Periplaneta americana*]

MLSILVVCLLAGFQLAAGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYD
KYTLDENGVIQVTSVA YTNSTRGFITSTGTVPSWTENTFDIAYGDNETWSSTYFMIGTDY
QTYSIVAGCLDNDYSRHL YWIASHGTSFDDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQ
YKS

>AAX33729.1 Allergen Per a 5 allergen [*Periplaneta americana*]

MTIDFY YLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMN PQHTIPTLNDK
GFCLWESRAILSYLADQY GKDDSLYRRDAKKRALVDQRLYFDIGTLYHRFG EYYPIYFA
KQAADPEKMKKLEEA FEFLNKFLESQEFVAGNKLT IADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHS GCLKFKEMCDNLAKK

>AAX33730.1 Putative Per a 6 allergen [*Periplaneta americana*]

MDELPDEQIQLLKKAFDAFDREKNGFISTDMVGTILEMLGHPLDDDMLEEIIAEVDADGS
GELEFQEFVTLAARFLVEEDA EAMQQELKEAFRL YDKEGNGYITTTVLREILKELDDKLT
NEDLDAMIEEIDSDGSGTVDFDEFMEVMTGE

>AAX33734.1 Allergen Per a 10; serine protease [*Periplaneta americana*]

MLRYLVLASLIACSLSAVPKAKRPRLDGRIVGGRPADIADYPYQLSFEYYGSHMCGASII
SPNWWVTA AHCVDGVSASSATFRAGGSIRESGGSVHQATQLIANPNYDY TIDFDVAVAR
VSPAFSYGTGVQPIPLASSEPSAGQIATVSGWGTTSEGGSTLPSQLQVVSVPVSRSECN
QAYS DYGGITDDMICAAEQGGKDACQGD SGGPLVVNGQLAGIVSWGVC AEQGYPGVYS
NVASLKG FITEQTGVN

>AAX34047.1 Allergen Blo t 5.02 allergen [*Blomia tropicalis*]

MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFL LHITHEVDDLEKT
GNKDEKARLLRELT VSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>AAX35807.1 Allergen Len c 3; lipid transfer protein (LTP) type 1 [*Lens culinaris*]

MARGMKLACVVLVICMVVIAPMAEGAISCGAVTSDLSPLTYLTGGPGPSPQCCGGVKKL
LAAANTTPDRQAACNCLKSAAGSITKLNTNNAALPGKCGVNIPYKISTTTNCNTVKF

>AAX37288.1 Allergen Pen m 1; tropomyosin [*Penaeus monodon*]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERM RKVLENRSL SDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSELSGY

>AAX37321.1 glutathione transferase mu class Yv5004H11 [*Sarcoptes scabiei*]

MSSKPTLGYWNIRGLAQPIRMMLSYAGVDFVDKRYNYGPAPDFDRSEWLNEKFNLGLDFP
NLPYYIDGDVCLTQSLAILRYLARKHKLDGHNEQEWLRIALCEQQIVDLYMAMGRISYDP
NFEKLPDYLEKLPDNLKLFSEFLGDHPFVAGTNLSYVDFVVEYLIRLKAMTPEVFAKF
QNLGNYVNRFESEMPKISAYLKQQQPQFFNGLMAKWNMKY

>AAX37326.1 Putative glutathione transferase mu class Dp7019C10 [Dermatophagoides pteronyssinus]
MSQPILGYWDIRGYAQPIRLLLTYSGVDFVDKRYQIGPAPDFDRSQWLNEKFNLGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNDSNDHEEIRISMAEQQTCDMMAAMIRVCYDAN
CDKLPDYKSLPDCLKMSKLVGEHPFVAGANISYVDFYLYEYLCRVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQQPKTFNAPTSKWNASYA

>AAX40948.1 Allergen allergen Ziz m 1 [Ziziphus mauritiana]
MVPQAKLVVAVSLILTSALIQTSEAVGGIATYWGQYTETEEGSLAEACASNLYSYINIAYL
NIFGEGRYLSLNSIGHCSCTFLGEEIKACQSQGVKIFLSLGGPYGDYHLTTDGDADRVA
EQLWSSFLGGSKSTGVYQPLLGDVELDGIDLDIQIGPPEEYDVLARNLKDCLKDRTRPFY
LSAAPKCSAYNDSDAYLWTA VETGLDFVWVKFYNDTSCQYNNDTAAGLDAFYRSWYDWT
VSLAEGNKLLIGIPASNETDNSPLGGYIPSDVLNDQIVSVIMTSSKFGGVNVWNRYYDLK
TNYSSSIILEYVNSGTKYLPLRTKFMYQNA

>AAX47076.1 Allergen Der p 1 allergen [Dermatophagoides pteronyssinus]
NEIAXAKIDLRQMRTVTPIXMQGGCGSCWALSQVAATESAYLAYGNXSLDLAEQELVDCA
SQHGCHGDTIPRGIEYIQHNGVVQESYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNK
IREALAQTHSAIAVIIGIKDLDAFRHYDGRTHIQRDNGYQPNYHAVNIVGYSNAQGVYD
IVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVIL

>AAX57578.1 Putative BW 16kDa allergen [Fagopyrum esculentum]
RDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDILDDKYAEALSRVEGEGCKSEES
CMRGCCVAMKEMDDECVCWMMKMMVENQKGRIGERLIKEGVRDLKELPSKCGLSEMECGS
RGNRYFV

>CAI77218.1 Allergen Ves v 2; hyaluronidase [Vespa vulgaris]
DRTIWPKKGFSIYWNIPTHFCHNFGVYFKELKQFNKYNMNNFRGETISLFYDPGNFPS
MVLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETSAKIFMEKTLKLAKEIRKKTEWG
YHGYPHCLSGSTDKPSFDCDALSMSENDKMSWLFNNQNVLLPSIYLKNVLPDEKIHVQ
ERLKEAIRISKNFHLPKVLVWYTYQDKESIFL TEADVKNVTFKEILTNGADGIIIWGV
SYELTDRKRCEKLKEYLMKILGPIAFKVTKAVKENTPLNF

>AAX77383.1 Allergen Sin a 2; 11S globulin / legumin-like protein [Sinapis alba]
MVKLAHLLVATVGVLLVLNGCLARQSLGVPPQVKDACNLDNLDVLPQTEVIKSEAGQVEY
WDHNHPQIRCAGVSIARLVIQKGGYLPFTFFSSPFISYVQGMGISGRVIPGCAETFMDS
QPMQGGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGFRDMHQK
VEHVRHGDAMTPGSAQWIYNTGDQPLIIVSLIDIANYQNQLDRNPRTFRLAGNNQQGS
SQQQQQQQQNILSGFDPQVLAQALKIDVRLAQELQNQQDKRGNIVRVKGPVQVVRPPLRQ
AYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPNLGRVTSVNSYTLF
ILQYIRLSATRIGILQGSAMVLPKYNMNEILYCTQGQARIQVVNDNGQNVLDQQVQKGG
LVVIPQGFAYVQSQNNFEWISFKTNANAMISTLAGRTSALRALPLEVITNAYQISLEEA
RKIKFNTLETTLTRARGGQQPQLIEEIVEV

>AAX77384.1 Allergen Sin a 2; 11S globulin precursor [Sinapis alba]
MVKLAHLLVATVGVLLVLNGCLARQSLGVPPQVKDACNLDNLDVLPQTEVIKSEAGRLEY
WDHNNPQIRCAGVSIARLVIEQGGFYLPFTFFSSPKISYVQGMGISGRVIPGCAETFMDS
QPMQGGQQGHQGGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQG
GQQGFRDMYQKVEHVRHGDVIANTPGSAHWIYNTGDKPLVIISLLIDIANYQNQLDRNPRV
FRLAGNNPQGGFGPPQQQPQNILNGFDPQVIAQALKIDVRLAQELQNKQDSRGNIVRV
KGPVQVVRPPLRQAYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPN
LGRVTSVNSYTIPLQYIRLSATRIGILQGSAMVLPKYNMNEILYCTQGQARIQVVNDN
GQNVLDQQVQKGGQLVVIPQGFAYVQSQNNFEWISFKTNANAMISTLAGRTSALRALPLE
VITNAFQISLEEARKIKFNTLETTLTRARGGQQPQLIEEIVEV

>AAX77684.1 Allergen Amb a 9; calcium-binding protein / polcalcin [Ambrosia artemisiifolia]
MAEEDKAERDRIFGAFDANKDGKISSTELGESLKNLGSVSPEEVQTMMEELDTDGDGFI

SYEEFTDFYNANRGLMKDVGKIF

>AAX77685.1 Allergen Amb a 9; calcium-binding protein / polcalcin [Ambrosia artemisiifolia]
MAEDEDKAERDRIFGAFDANKDGGKISSNELGEALKNLGSVSPEEVQTMMEELDTDGDGFI
SYEEFTDFYNANRGLMKDVGKIF

>AAX77686.1 Allergen Amb a 10; calcium-binding protein / polcalcin [Ambrosia artemisiifolia]
MAPENNKHSIFPTDKEEVTKIFNRFDTNGDGGQISEDELFAILKSLGSDTSPDEVKRVMAE
IDADGDGFISLDEFILFCKGIESEGDEINDLKEAFKFYDQNNNGVISANELHQILGRLGE
NYSVESCADMIKSVDSDGDGFVDFEEFRKMMSRKGGDGAM

>AAX77687.1 Allergen Amb a 8; profilin [Ambrosia artemisiifolia]
MSWQTYVDEHLMCDIEGTGQHLASAAIFGTDGNVWAKSSSFPEFKPDEINAIKEFSEPG
ALAPTGLFLAGAKYMVIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEPPVNPQCQNMV
VERLGDYLVQGM

>AAX77688.1 Allergen Amb a 8; profilin [Ambrosia artemisiifolia]
MSWQTYVDEHLMCDIDGSGHLLSSAAIFGTDGAVWAKSGSFPEFKPDEINAIKEFDAAG
TLAPTGLFLAGAKYMVIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEPPVAPGQCQNMV
VERLGDYLVQGM

>CAI78902.1 Allergen putative gamma-gliadin [Triticum aestivum]
MQVNPSVQVQPTQQQPYPESQQPFISQSQQQFPQPQQPFPQQPQQPFPQSQQQCLQQPQH
QFPQPTQQFPQRPLLPTHPLTFPDQLLPQPPHQSFPQPQSYPQPPLQFPQPQQKY
PEQPQQPFPWQQPTIQLYLQQQLNPCKEFLQQRCPVSLLSYLWSKIVQQSSCRMVQQQC
CLQLAQIPEQYKCTAIDSIVHAIFMQGQRQGVQIVQQQPQQVGGCVLVQGGQGVVQPQ
QLAQMEAIRTLVLQSVSMCNFNVPPNCSTIKAPFVGVVTGVGGQ

>AAX85388.1 Allergen Art v 6; pectate lyase [Artemisia vulgaris]
MEKHVYFVILFTA AFVFGAAARADIGDELEAAQFNSTRRLHECAAHNIIDKCWRCKADW
EKNRQALAKCAQGFAGTGTGGLGGEIYVVTDCSDDNAANPKPGTLRCGVTQDKPLWIFK
KDMVIKLVKHEL VINKDKTIDGRGANVEITCGGLTIHNVCNVIHNIHDIK VTEGGIHK
ATDAKPGHRHKS DGDGICVAGSSKIWDHCTL SHGPDGLIDVTLGSTAVTISNCKFSHHQ
KILLLGADNSHVDDKMMHVTVA FNRF AEACDQRMPCRFRGFFQVVNNDYTSWGTYAIGGS
ANPTILSQGNRFHAPNDPMKKNVL VRADAPHTESMKWNWRSEKDLENGAIFVASGCDPH
LTPEQKSHLIPAEPSAVLQLTSCAGTLKCVPGKPC

>AAX85389.1 Allergen Art v 5; calcium-binding protein / polcalcin [Artemisia vulgaris]
MADEDKAECDRIFGAFDKNGDGKISAAELGESLTKLGSVSPEEVQTMMEELDTDGDGYIS
YDEFAEFFNANRGLMKDVGKIF

>CAI79052.1 Putative putative LMW-glutenin subunit [Triticum aestivum]
MSHIPGLERPSQQQPLRPQQLSHHHHQPIQQQPQQPQQPCSQQQQQPPLSQQQQPP
FSQQQQPPFSQQQQPVLPQQPSFSQQQLPPFSQQQQPPFSQQQQPVLPQQPSFSQQQLPP
FSQQLPFSQQQQPVLLQQQIPFVHPSILQQLNPKVFLQQQCSPVAMPQSLARSQMLQQ
SSCHVMQQQCCQQLPQIPQQSRYEAIRAIVYSIILQEQQVQGSIQTTQQQQPQLGQCVS
QPQQQSQQQLGQCSFQQPQQQLQQLGQQPQQQQIPQGIFLQPHQISQLEVMTSIALRTLPT
MCGVNVPLYSSTTIMPFSIGTGVGGY

>1YG9_A Allergen Chain A, The Structure Of Mutant (N93q) Of Bla G 2 [Blattella germanica]
GASIVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCNVVVASQECVGGACVCPNLQK
YEKLPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELSQEVCLISA
DVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHARFQDGEHFGEIIFGGSDWKYV
DGEFTYVPLVGDSDWKFRLDGKIGDTPVAPAGTQAIIDTSKAIIVGPKAYVNPINEAIG
CVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNINISSQYYIQQNGNLCYSGFQPXGHSD
HFFIGDFFVDHYYSEFNWENKTMGFGRSVE

>AAY21180.1 Allergen Api m 11; major royal jelly protein [Apis mellifera]
MSFNWWLILYFSIVCQAKAHYSLRDFKANIFQVKYQWKYFDYNFGSDEKRQAAIQSGEY
NYKNNVPIDVDRWNGKTFVTILRNDGVPSSLNVISNKIGNGGPPEPYPNWSWAKNQNC
GITSVYRIAIDEWDRLWVLDNGISGETSVCPSQIVVFDLKNKLLKQVKIPHDIANSTT
GKRNVTPIVQSFYDYNNTWVYIADVEGYALIIYNNADDSFQRLTSSTFVYDPRYTKYTIN
DEFSLQDQILGMALSHKTQNLYYSAMSSHNLNYVNTKQFTQGKFQANDIQYQGASDILW
TQASAKAISETGALFFGLVSDTALGCWNENRPLKRRNIEIVAKNNDTLQFISGIKIKI

SSNIYERQNNEYIWIVSNKYQKIANGDLNFNEVNFRLNAPVNQLIRYTRCENPKTNFFS
IFL

>CAI64396.1 Putative serine carboxypeptidase II [Triticum aestivum]
GNGLIDDYHDYVGTFEFWVNHGLVSDDTYQRLREACLHDSFIHPSPACDAATDVATAEQG
NIDMYSLYTPVCNITSSSSSSSSSSLSQRRSRGRYPWLTGSYDPCTERYSTAYYNNRRDVQ
TALHANVTGAMNYTWSTCSDTINTHWHADAPRSMLPIYRELIAAGLRIWVFSGDTDAVVPL
TATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRPRQALVL
FQYFLQGKPMGQATNATVA

>CAI64397.1 Putative putative leucine-rich repeat protein [Triticum aestivum]
KPVAANQDVDALSALRRGLQDPNGELKNWDANLVDACTWSHITCDRDNNRVTRIDLNKMN
LSGPLAPELGKLDRLQYLEIDHNRLTGPIPRELAGLSNLKHADFSNNNLGPIPTTGAFAQ
RIPRSSFANNPRLGRKC

>CAI64398.1 Putative 5a2 protein [Triticum aestivum]
IAVAVSADECEGDRRAMIKECAKYQQWPANPKLDPSDACCNAVWQKANIPCLCAGVTKEKE
KIYCMEKVAYVANFCKKPPPHGYKCGSYTFPPLA

>CAI64400.1 Allergen Zea m 25; thioredoxin [Zea mays]
MAASEAAAAAATPVAPTEGTVIAIHSLEEWSIQIEEANS AKKLVIDFTATWCPPCRAMA
PIFADMAKKSPNVVFLKVDVDEMKTIAEQFSVEAMPTFLFMREGDVKDRVVGAAKEELAR
KLELHMAS

>EAL89830.1 Putative major allergen Asp F2 [Aspergillus fumigatus Af293]
MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSSGSGSGATTTPTDPSATIDVPPVRT
VRIS

>AA83341.1 Allergen Fra a 3; lipid transfer protein (LTP) type 1 [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKSGGAVPAACCNGIRSL
NSAAKTADRQATCNCLKQASGAIKGLNPSLAAGLPGKCGVSVPYKISTSTNCAAVK

>AA83342.1 Allergen Fra a 3; lipid transfer protein (LTP) type 1 [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPCVTYVKSGGAVPAPCCSGIRNL
NGMAKTADRQATCNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>AA83345.1 Allergen Fra a 3; lipid transfer protein (LTP) type 1 [Fragaria x ananassa]
MAISTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKSGGAVPAACCNGIRSL
NSAAKTADRQATCNCLKQASGAIKGLNPNLAAGLPGKCGVNVYPYKISTSTNCAAVK

>AA84563.1 Putative group 18 allergen protein [Dermatophagoides pteronyssinus]
MTRLSFTVLIFLAA YFGSNIRPNVATLDPKTVCYYESWVHWRQGDGKMDPEDIDTSLCSH
IVYSYFGIDASSHEIKLLDQYLMITLHDMEHFTKHKGNAMIAVGGASMSDQFSKTA AV
EHYRETFVSTIDLMTKYGFDGVMIDWSGMQAKDSDNFVLLDKFDEKFAQTSFVMGVTL
PATIASYDNYNIPAINYVDFMNVLTLDYDGPWAYTVGHASALPEQLKTLEAYNKRGA PR
HKMVMVAVPFFARTWILEKMDKQDVGDKASGPGPKGQFTQTPGFLSYNELCVQIQAE TNAF
SITRDHDNTAIYAVYVHDNHAEWISFEDRHTLGDKARNITEQGYGGMSVYTL SNEDVHGV
CGDKNPLLHAINSNYFRGIVTEPTVVTVPVTHTEHVTDIPGVFHCHQEGFFRDKTYCA
KYYECKKGFGLQTVHHCNHSQAFDEVSRTCVDHAKIPGC

>AA84565.1 Putative group 15 allergen protein short isoform [Dermatophagoides pteronyssinus]
MKTSCAILILMACFGLMNA AVKRDHNNYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGF AKIDEYKYTIQVFDQDDNHNTWEKHGYERFNNLRLKNPELTTMISLGGWY
EGSEKYS DMVANPTYRKQFVQSVLDFLQEYKFDGLDL DWEYPGSRLGNPKIDKQNYLTLV
RELKEAFEPFGYLLTAAVSPGKDKIDVAYELKELNQLFDWMNVMTYDYHGGWEN VFGHNA
PLYKRPDETDELHTYFNVNYTMHYLNGATRDKLVMGVPFYGRAWSIEDRSKVKLGDPA
KGMSPPGFITGEEGVL SYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYDDLASISC
KLAFLKELGVS GVMIWLENDDFKGHC GPKYPLL NKVHN MINGDEKNSYECLLGPSTTTPT
TPTTPSTPTTTPTPTTPSTPTTTPTPTTPSTPTTTPTPTTTDSTSETPKYTTYVDGH
LIKCYKEGDLPHPTNIHKYLVCEYVNGGWWVHIMPCPPGTIWCQEKLTCITE

>P83958.1 Allergen Thaumatin-like protein (Allergen Act c 2) [Actinidia chinensis]

ATFNFINNCPFTVWAAAVPG

>AAAY88919.1 Putative Ole e 11.01 allergen precursor [Olea europaea]

MSCIAVEAVLLGILLYIPIVLSDDRAPIPANSACLNSWFDGIIQPVAVRKATMDPALVTA
EGQAKVIKLKSDGSGDFKSINEAIKSIPDDNTRVILSFSPGNYSEKVKIGMYKHYITFY
GEDPNNMPILVFGGTAAEYGTVDSATLIVESNYFSAVNLKIVNSAPRPDGKRVGAQAAAL
RISGDKASFYNVKIYGFQDTLCCDKGKHFKDCYIEGTVDVFIFGSGKSIFLNTLHAVPG
DQPAIITAQARKTESEDGTYYFVNCRVTTGGGAFLGRSWMPAAKVVFAYTEMGDAIHPEGW
ILVKPEHESTVRFPEYNNKGPGANMEKRAKFKVRLSDAEAKQSSISLGSIEASKWLLPPRV
VGLP

>AAZ20276.1 Allergen Ara h 11; oleosin [Arachis hypogaea]

MAEALYYGGRQRQEQRSTQLVKATTAVVAGGSLILAGLVLAGTVIGLTTITPLFVIFS
PVLVPAVITVALLGLGLASGGFGVAAITVLTWIYRYVTGKHPPGANQLDARHKLMGKA
REIKDFGQQQTSGAQAS

>CAI38795.2 Allergen Act d 2; thaumatin-like protein (TLP) [Actinidia deliciosa]

MSTFKSLSLSALLFIAFLFTCARGATFNIINNCPFTVWAAAVPGGGKRLDRGQNWIINPG
AGTKGARVWPRTGCNFDGAGRKQCQTGDCNGLLQCQAFGQPPNTLAEYALNQFNLDFFD
ISLVDGFNVAMEFSPTSGGCTRGIKCTADINGQCPNELRAPGGCNPCTVFKTDQYCCNS
GNCGLTNFSKFFKDRCPDAYSYPKDDQTSTFTCPAGTNYKVVFCP

>AAZ23584.1 Allergen Tri a 26; HMW glutenin [Triticum aestivum]

MAKRLVLFAAVVVALVALTAAEGEASGQLQCEHELEACQQVVDQQLRDVSPGCRPITVSP
GTRQYEQQPVVPSKAGSFYPSSETTPSQQLQQMIFWGPALLRRYYPSVTSSQQGSYYPGQ
ASPQQSGQGQQPGQEQQPQGGQQDQPGQRQQGYPTSPQQPGQGQQLGQGQPGYYPTSQ
QPGQKQQAGQGQQSGQGQQGYPTSPQQSGQGQQPGQGQPGYYPTSPQQSGQWQQPGQGQ
QPGQGQQSGQGQQGQQPGQGQQRPGQGQQGYYPISPPQPGQGQQSGQGQPGYYPTSLRQPG
QWQQPGQGQQPGQGQQGQQPGQGQQSGQGQQGYPTSLQQPGQGQQLGQGQPGYYPTSQQ
SEQGQQPGQGKQPGQGQQGYPTSPQQSGQGQQLGQGQPGYYPTSPQQSGQGQQSGQGQQ
GYPTSPQQSGQGQQPGQGQSGYFPTSRQQSGQGQQPGQGQQSGQGQQGQQPGQGQQAYY
PTSSQSRQRQQAGQWQRPGQGQPGYYPTSPQQPGQEQQSGQAQQSGQWQLVYYPTSPQQ
PGQLQPPAQGQQPAQGGQSAQEQQPQQAQQSGQWQLVYYPTSPQQPGQLQPPAQGQQGY
PTSPQQSGQGQQGYPTSPQQSGQGQQGYPTSPQQSGQGQQPGQGQQPRQGQQGYYPIS
PQQSGQGQQPGQGQQGYPTSPQQSGQGQQPGHEQQPGQWLQPGQGQQGYPTSSQSGQ
GHQSGQGQQGYPTSLWQPGQGQQPGQGQQGYASPYHVS AEYQAARLKVAKAQQLAQLP
AMCRLEGS DALSTRQ

>CAJ19705.1 non-specific lipid transfer protein [Solanum lycopersicum]

MEMVNKIACFVLLCMVVVAPHAEALTCGQVTSTLAPCLPYLMNRGPLRNCCDGVKGLLGQ
AKTTVDRQA ACTCLKSAASSFTGLNLGKAAALPNTCSVNIPYKISPSTDCSKVQ

>AAZ76743.1 Pen a 1 allergen [Penaeus aztecus]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>1WKX_A Allergen Chain A, Crystal Structure Of A Hev B 6.02 Isoallergen [Hevea brasiliensis]

EQCGRQAGGKLC PDNLCCSQWGWCGSTDEY CSPDHNCQSNCKD

>P0C088.1 Allergen Art v 3; lipid transfer protein (LTP) type 1 [Artemisia vulgaris]

ALTCS DVS NKISPCLSYLKQGGV PADCCAGVKGLND

>BAE20328.1 Allergen Tri a 19; omega-5 gliadin [Triticum aestivum]

MKTFIIFVLLAMAMNIASARLLSPRGKELHTPQE QFPQQQFPQPQQFPQQQIPQQHQI
PQQPQQFPQQQFLQQQQIPQQQIPQQHQIPQQPQQFPQQQFPQQHQSPQQQFPQQQFP
QQKLPQQEFPQQQISQQPQLPQQQIPQQPQQFLQQQFPQQQPPQQHQFPQQQLPQQQ
QIPQQQIPQQPQQIPQQQIPQQPQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQIA
RQPQQLPQQQIPQQPQQFPQQQFPQQQSPQQQFPQQQFPQQQLPQKQFPQPQQIPQ
QQQIPQQPQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQ

QQQFPQQQLTQQQFPRPQQSPEQQQFPQQQFPQQPPQQFPQQQFPIPYPPQQSEEPSY
QQYPQQQPSGSDVISISGL

>AAZ91659.1 Putative polygalacturonase [*Lilium longiflorum*]

MASISSARLLLLSSVLLIVKLTAGLVPETKVNKVSFGAVGDGKTDSTQAILRAWDQACNG
FGKQRVIVPEGVYLTGPMAFRGPCNGFISMQVRGELRAYGDVKGYPNAKWVSYEDLNGLL
VTGGGRFNAQGSQAWTQNDCASTKKNCALLTTSVKFDHCTNATIRRINSIDSKFFHIAIDQ
CTDITVHHINITAPGTSPNTDGIHIGRSTNVNISNAIIGTGDDCISLGPSSHITISKVQ
CGPGHGISVGSGLGRYMNEENVWDVKVKNCTLTGTTNGVRIKTWKGSPPSEASQFIFQDIE
MREVQNPIIIDQEYCSYDYCANNPPAPSKVKLSDIQFMNIKGTSTSKVAINLICSSAVPC
EGIQLSDISLKYIRAGKPTMANCSHVSSTGLVSPSPCIKGADVSLFTTQML

>CAJ28930.1 Allergen Ves g 5 allergen precursor [*Vespula germanica*]

NNYCKIKCLKGGVHTACKYESLKPNCANKKVVA YGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWNEDELA YIAQVWANQCQYGHDTCRDVAKYPVGVQNVALTGSTA
AKYDNPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTQMVWANTKEVGCSSIKYIQDKW
HKHYLVCNYGPSGNFNGNEELYQTK

>CAJ28931.1 Allergen Ves g 1 allergen precursor [*Vespula germanica*]

GPKCPFNTDTVSMIETRENRRDL YTLQTLQNHPEFKEKTITRPVVFITHGFTSSASET
NFINLSKALVDKDNMVISIDWQTA ACTNEAAGLKYLYPTAASNTRLVGYIATITQKL
VKQYKISMANIRLIGHSLGAHVSGFAGKKVQELKLGKYSEIIGLDPAGPSFSSNKCSDR
CETDAEYVQILHTSNHLGTERILGTVD FYMNGKNQPGCGRFFTEVCSHSRAVIYMAECI
KHECCLIGIPKSKSSQPISSTKQECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>Q6R4B4.1 Allergen RecName: Full=Glutathione-S-transferase; AltName: Allergen=Alt a 13 [*Alternaria alternata*]

MSDKPSELAVQKLV LFAVKGTATSTHNTVRPLILLDELGVPHEIYVDRVSAPWFTEINP
HRMVPVILEKSPDGRD TLRAWESTSTLMYIADAYDKDGTFGGRNVQESSDINNWLTLHTA
ALGPTAKYWL YFYKLHPEKLPKTIEKLRSNITVQYDILERRLNEPGQQYLAWLNEKFKRS
SYNRRHCYASLCYEKYRRVVRAGVKVAQTARVVCOPYGGDTRRGVWPARKST

>Q875I9.1 Putative RecName: Full=Endo-chitosanase; Flags: Precursor [*Aspergillus fumigatus*]

MRLSEILTVALVTGATAYNL PNNLKQIYDKHKGKCSKVLAKGFTNGDASQGKSFSYCGDI
PGAIFISSSKGYTNMDIDCDGANN SAGKCANDPSGQGETAFKSDVKKFGISDL DANIHYPY
VVFNGEDHSPKFKPQSHGMQPLSVM AVVCNGQLHYGIWGD TNGGVSTGEASISLADLCFP
NEHLDGNHGHDPNDV LFIGFTSKDAVPGATAKWKAKNAKEFEDSIK SIGDKLVAGLKA

>Q8J077.1 Allergen RecName: Full=Subtilisin-like protease 6; AltName: Allergen=Tri m 2; Flags: Precursor [*Trichophyton schoenleinii*]

FITKAIPVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTTWLSQNLN
RRLMRRSGSSKAMAGM QNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNLTRQENVPSWGLARV GSKQAGGTTY YDSSAGKGVTA YVIDTGIDIEHEDFGGRAK
WGKNFVDQRDEDCNGHGTHVAGTVGGTKYGLAKSVSLVAVKVLDCDGS GSNSGVIRGMEW
AMREASGGNGTAKAAGK SVMNMSLGGPRS QASNDAARAI SEAGIFMAVAAGNENMDAQH
SSPASEPSVCTVAAS TEDDGKA EFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMASP
HVCGLGAYLIGLGKQGGPGLCDTIKQMANEAIQRPGE GTTGKLIY

>Q9UVU3 Putative Allergen Asp fl 1 [*Aspergillus flavus*]

MQSIKRTL LLLGAILPAVLGAPVQETRRAAEKLP GKYIVTFKPGIDEAKIQEHTTWATNI
HQRSLERRGATGGDLPVGIERNYKINKFAAYAGSFDDATIEEIRKNEDVA YVEEDQIYYL
DGLTTQKSAPWGLGSISHKQQSTDIYDTSAGEGTYAYV VDSGVNVDHEEFEGRASKAY
NAAGGQHVDSIGHGTHVSGTIAGKTYGI AKKASILSVKVFQGESSTSVILDGFNWAAND
IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQGVLSVVAAGNENSDAGQTSPASAPDA
ITVA AIQKSNNRASFSNFGKVVDV FAPGQDILSAWIGSSATNTISGTSMATPHIVGLSL
YLAALENLDGPAAVTKRIEELATKDVVKDVKGSPNLLAYNGNA

>Q4WB37.1 Putative RecName: Full=Endo-chitosanase; Flags: Precursor [*Aspergillus fumigatus* Af293]

MHFLATAAVLAGVGLASAYTV PANLQQIYNKHKTGTCQNKLQDGFSDGISGSR SFAYCGD
IEGAIFLHSSANGGQYVNM DIDCDGANN SAGDCANDPSGQSMTAFMDTVKQYGISDL DAN
IHPYVVFNGSNGSSPTFD PQQYGMELSVMAVVCNNQLFYGIWGD TNGGTSTGEASISLAK
LCFPNDGITGDNGHGEEDVLYIGFMGQDAVPGASAAW TARDTKTFEESIKALGDRLVAKL

SA

>Q5BLY5.1 Putative RecName: Full=Venom acid phosphatase Acph-1; AltName: Allergen=Api m 3; Flags: Precursor [Apis mellifera]

MSVIAILAMVVGVAELKQINVIFRHGDRIPDEKNEMYKDPYLYYDFYPLERGETNSG
KMREYQLGQFLRERYGDFLGDIIYTESVSALSSFYDRTKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRRYEDNIFLPEDCLLFTIELDRVLES PRGKYEF SKYDKLKKKLEEW TG
KNITTPWDY YYYIHTLVAEQSYGLTLPSWTNNIFPRGELFDATVFTYNITNSTPLLK KLY
GGPLLRIFTKHMLDVVSGTQKKKRKIYLFSGHESNIASVLHALQLYYPHVPEYSSSIIME
LHNIEGTHYVKIVYYLGIPSEARELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFV
DESANNLSIEELDFVKNLIRIAGTENK

>Q7M4I3.1 RecName: Full=Venom protease; AltName: Allergen=Bom p 4 [Bombus pensylvanicus]
VVGKPAKLGAWPVMVALGFHNYRQPKKSPEWKCGSLRISRHVLTAAHCAIHRSLYVVR
IADLNLKRDDDGAHPIQMGIKLIHPDYVYSEHHDDIAILKLEKDV SFSEYIRPICLPI
EESLRNNNFIGNPFVAGWGRLRYKGPLSDALMEVQVPVVRNKVCKRAYSDVSDTVICAG
YPKGRKDCSQGDSGGLMIPQESTYYEIGVVSYGHECALPKYPGVYTRVTSYLD SFILPA
LKK

>P80208.1 Allergen Bra n 1; 2S albumin [Brassica napus]
SAGPFRIPKCRKEFQQAHLRACQQWLHKQAMQSGSGPQGPQQRPLLQCCNELHQEEP
LCVCPTLKGASRAVKQQRQQGQQGQQQLQQVISRIYQTATHLPKVCNIPQVSVCPFQKT
MPGPS

>P82952.1 Putative Seed allergenic protein 2 (Conglutin gamma) (Allergen Pru du ?) [Prunus dulcis]
TKSQTHVPIRPNKLV LKVQKDRATN

>Q647G9.1 Allergen RecName: Full=Conglutin; AltName: Allergen=Ara h 6; Flags: Precursor [Arachis hypogaea]
MAKSTILVALLALVLVAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRMGEQE
QYDSYDIRSTRSSDQQQRCCDELNEMENTQRCEALQQIMENQCDRLQDRQM VQQFKRE
LMNLPQQCNFRAPQRCDL DVS GGRC

>Q7M1E8 Allergen Par o 1; lipid transfer protein (LTP) type 1 [Parietaria officinalis]
ATGKVVQ GAMP P

>Q7M1L8 Allergen Pollen allergen Phl p V [Phleum pratense]
DLGYAPATPAAPGAGYTPATPAAP

>Q7M1X6 Putative Group I allergen Ant o I (Form 1), pollen [Anthoxanthum odoratum]
IAKVPPGNITATYGDKWLD AKSTWYGKPTGA

>Q7M1X7 Putative Group I allergen Agr a I (Form 2), pollen [Agrostis alba]
IAKVPPGNITADYGDKWLD AKSTWYGKPTGAGPK

>Q7M1X9 Putative Group I allergen Agr a I (Form 1), pollen [Agrostis alba]
IAKVPPGNITATYGDKWLD AKSTWYGKPTGAGPK

>Q7M1Y0 Putative Group I allergen Ant o I (Form 2), pollen [Anthoxanthum odoratum]
IAKVPPGNITADYGDKWLD AKSTWYGKPTGA

>Q7M1Y1 Putative Group I allergen FeS e I, pollen [Schedonorus arundinaceus]
IAKVPPGNITAEYGDKWLD AKSTFYGKPTGAGPK

>Q7M262 Allergen 30K allergen [Holcus lanatus]
ADAGYTPAAPAATGAGGDAT

>Q7M263 Putative 30K allergen [Secale cereale]
ADAGYAPAAPGTQPKA

>O22108 Putative LMM glutenin 1 [Triticum aestivum]
RCIPGLERPWQQQPLPPQQTFFPQQPLFSQQQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQQSPFSQQQQLLPPQQQQQLPQQQISIVQPSVLQQLNPKV
FLQQQCSPVAMPQRLARSQM WQQSSCHVMQQQCCQQLSQIPEQSR YDAIRAITYSIILQE
QQQGFVQAQQQQPQQSGQGVQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQVQQGTFLQP
HQIAHLEVM TSIALRTLPM MCSVNVPLYSSTTSVPFGVGTGVGAY

>O23791.1 Allergen Bromelain precursor (Allergen Ana c 2) [Ananas comosus]
MASKVQLVFLFLFCAMWASPSAASRDEPN DPM MKRFEEWMAEYGRVYKDDDEKMRRFQI
FKNNVKHIETFNSRNENS YTLGINQFTDMTKSEFVAQYTG VSLPLNIEREPVVSFDDVNI
SAVPQSIDWRDYGAVNEVKNQNPCGSCWSFAAIATVEGIYKIKTG YLVSLSEQEVLDCAV
SYGCKGGWVNKAYDFIISNNGVTTEENYPYLA YQGTCNANSFPNSAYITGYSYVRRNDER

SMMYAVSNQPIAALIDASENFQYYNGGVFSGPCGTSLNHAITIIGYGQDSSGTTYWIVRN
SWGSSWEGGYVRMARGVSSSSGVCIAMAPLFTLQSGANAIEVIMVSET

>Q94JN2.1 Putative RecName: Full=Profilin; AltName: Full=Minor food allergen Ana c 1; AltName: Allergen=Ana c 1 [Ananas comosus]

MSWQAYVDDHLMCEIDGQHLSSAAILGHDSTVWAQSPNFPQFKPEEISAILNDFENPGSL
APTGLYLGGTKYMVIQGEPPVIRGKKGTTGGITVKKTNLALIIGVYDEPMTPGQCNMVVE
RLGDYLLEQGF

>O22116 Putative LMM glutenin 3 [Triticum aestivum]

ASAVAQISQQQPPFSQQQPPFSQQQPPFSQQQSPFSQQQPPFSQQQPPFSQQ
PLISQQQQLPFSQQQPPFSQQQPPYSQQQPPYSQQQPPFSQQQPPFSQQQPPFS
QQQPPFTQQQPPFSQQSPISQQQPPFTQQQPPFSQQPPISQQQPPFS
QQQPPFSQQQIPVIHPSVLQQLNPCMVFLQQQCIPVAMQRCLARSQMLQQSICHVMQR
QCCQQLRQIPEQSRHESIRAIYSIILQQQPPFTQQQPPFSQQQPPFSQQQPPFS
SQPQQQLQQQLGQQPQQQLAHGTFLQPHKIAQLEVMTSIALRTLPRMCSVNVPLYETTT
SVPLGVGIGVGVY

>Q6W8Q2.1 Allergen Tri a 32; peroxiredoxin [Triticum aestivum]

MPGLTIGDTPNLELDSTHGKIRIHDYVGNQYVILFVSHPGDFTVCTTELAAMANYAKEF
EKRGVLLGISCDVQSHKEWTKDIEAYKPGSKVTYPIMADPDRSAIKQLNMVDPDEKDA
EGQLPSRTLHIVGPDKKVKSFLYPSCTGRNMDEVVRAVDSLTAAKHKVATPANWNPGE
CVVIAPGVSDDEAKKMFPGFETADLPSKKGYLRFKTV

>ABA39435.1 Allergen Der p 1 allergen precursor, partial [Dermatophagoides pteronyssinus]

RPSSIKPFEEYKAFNKSYATFEDEEAARKNFLESVKYVQSNNGAINHLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRITIIQ
RDNGYQPNYHAVNIVGYDNAQGVVWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>ABA39436.1 Allergen Der f 1 allergen precursor [Dermatophagoides farinae]

RPASIKTFEEFKAFNKNYATVEEEVARKNFLESVKYVEANKGAINHLSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPSLDLRLSLRTVTPIRMQGGCGSCWAFSG
VAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQNGVVEERSYPYVAR
EQCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVIIGIKDLRAFQHYDGRITII
QRDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTT

>ABA39437.1 Allergen Der p 2 allergen precursor [Dermatophagoides pteronyssinus]

DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDPGIDPNACHYMKCPLVKGQQYDIKYTNVVPKIAPKSENVVTVKVLGDNGVLACA
IATHAKIRD

>ABA39438.1 Allergen Der f 2 allergen precursor [Dermatophagoides farinae]

DQVDVKDCANNEIKKVMVDGRHGSDFPCIIHRGKPFQLEALFDANQNTKTAKIEIKANING
LEVDPGIDTNACHFVKCPLVKGQQYDIKYTNVVPKIAPKSENVVTVKVLIGDNGVLACA
IATHAKIRD

>ABA42918.1 putative alpha/beta hydrolase superfamily protein [Cladosporium herbarum]

MPAGLQYVTTDGGRLAVEITGKETDPLVICSPGMGDTRDAYKPLAKVLVSNQYRVAAMDA
RAHGESSAKFARYGDEATADDFLTVANELSPGSPVVLGASFSAAAATIAAAKQPERVSK
IILLGPFLRNGMGVVGLWLMVPMFAWPWGPAAWEMYAATLWPGLEGDGAKKRAATTRASL
TRPGRWAGFQALISSLDHRVVAPYISSVRAPALVVMGDKDPDWSDPKVEAEWVASNFSQV
DTLMVPEAGHAPMYERPQVVAERVLSFLGDQTNV

>CAA55071.2 Allergen Alt a 10; aldehyde dehydrogenase [Alternaria alternata]

MTSVKLSTPQTGEFEQPTGLFINNEFVKAVDGKTFDVINPSTEEVICSVQEATEKDVDIA
VAAARKAFNGPWRKETPENRGKLLNKLADLFEKNADLIAAVEALDNGKAFSMAKNVDVPA
AAGCLRYGGWADKIEGKVVDTPDSFNIRKEPIGVCGQIIPWNFPILMWSWKIGPAIA
TGNTVVLKTAEQTPLSAYIACKLIQEAGFPFVINVITGFGKIAGAAMSAHMDIDKIAFT
GSTVVGRQIMKSAAGSNLKKVTLELGGKSPNIVFADADLDEAIHWVNFGIYFNHGQACCA
GSRIYVQEEIYDKFIQRFKERAANAQAVGDPFAADTFQGPQVSQLQFDRIMGYIEEGKKS

ATIETGGNRKGDKGYFIEPTIFSNVTEDMKIQEEIFGPVCTISKFKTKADVIGIGNNTT
YGLAAAVHTSNLTTAIEVANALRAGTVWVNSYNTLHWQLPFGGYKESGIGRELGEAALDN
YIQTKTVSIRLGDVLF

>CAA55072.2 Allergen Cla h 10; aldehyde dehydrogenase [Cladosporium herbarum]
MTSVQLETPHSGKYEQPTGLFINNEFVKGQEGKTFDVINPSDESVITQVHEATEKDVDIA
VAAARKAFEGSWRQETPENRGKLLNLANLFEKNIDLLAAVESLDNGKAISMAKGDISM
VGCLRYGGWADKITGKVIDTTPDTFNVYVKEPIGVCQIIPWNFPLLMWAWKIGPAIAC
GNTVVLKTAEQTPLGGLVAASLVKEAGFPPGVINVISGFGKVAGAALSSHMDVDKVAFTG
STVVGRTILKAAASSNLKKVTLELGGKSPNIVFEDADIDNAISWVNFGLFFNHGQCCAG
SRVYVQESIYDKFVQKFKERAQKNVVGDPFAADTFQGPQVSKVQFDRIMEYIQAGKDAGA
TVETGGKRKGDKGYFIEPTIFSNVTEDMKIVKEEIFGPVCSIAKFKTKEDAIGLGNASTY
GLAAAVHTKNLNTAIEVSNALKAGTVWVNTYNTLHHQMPFGGYKESGIGRELGEDALANY
TQTKTVSIRLGDALF

>Q06811.2 Putative ABA-1 polyprotein precursor (Body fluid allergen 1) (Allergen Asc s 1) (Nematode polyprotein allergen ABA-1) (NPA ABA-1) [Contains: ABA-1B1 repeat unit; ABA-1A4 repeat unit; ABA-1A3 repeat unit; ABA-1A2 repeat unit; ABA-1A1 repeat unit; C-terminal extensi [Ascaris suum]

TMEHYLKYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMHYDQLHGEEKQQATEKLVG
CKMLLKGIIGEEKVVELLRNMKEAGADIQELQKVEKMLSEVTDEKQKEKVHEYGPACKKI
FGATTLQHRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGGKTKKELEAKILHYYDE
LEGDAKKEATEHLKGGCGEILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDE
EKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGGKAK
KELEAKILHYYDELEGDAKKEATEHLKGGCAEILKHVVGEEKAAELKNLKDSGASKEELK
AKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQK
DELLKMKKDGGKTKKDLQAKILHYYDELEGDAKKEATEHLKDGCREILKHVVGEEKAAELK
KLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPACKKIFGAAHTSRRRRHHFTLES
SLDTHLKWLSQEQKDELLKMKKDGGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREI
LKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVH
TSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGGKAKKELEAKILHYYDELEGDAK
EATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIA
DFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGGKAKKELEAKI
LHYYDELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEAL
HAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQKDELLKM
KDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGA
SKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKW
LSQEQKDELLKMKKDGGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREILKHVVGEE
KAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHH
FTLESSLDTHLKWLSQEQKDELLKMKKDGGKAKKELEAKILHYYDELEGDAKKEATEHLK
GCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACK
KIYGVHTSRRRRYHAEDGTDIDGLAQRQRSGFFEKLDIVFAFF

>ABA81885.1 Putative profilin-like [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGVMNDFAEPTGL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGITIKKTNQUALIIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>BAE46763.1 Putative dark muscle parvalbumin [Trachurus japonicus]
MAFKGVLNDADVTAALDGCKSAFDHKAFFKACGLAAKSADDIKKAFAIIDQDKSGFIEED
ELKLFLQNFCAGARALSDAETKAFLKAGDSDGDGKIGVDEFAAMVKH

>ABB16985.1 Putative profilin-like protein [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEISGIMNDFAEPTGL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGITIKKTNQUALIIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>CAI43283.4 Putative mala s 12 allergen precursor [Malassezia sympodialis]
MKGIVSWAVVSAALVLSATESLAFANVSSFEKRTTTGNGWDLGKSYDYVIVGGGTAGLV
LANRLSANQGTVAVIEAGNSGYDDNDKVVDPANLYNSAVNTQYDWQFHTSSQKHMNNR
RASWPRGKVLGGSSAVNGLYYVRPSETEVNVWSKLAGGSGRWSWNSLLSGMKKSEHFRGP

VKSVQNLQIQYNAGSHSGSNGPIGTTWPAV TYDPVERFIKTADSMMSGAINNDPYNGNNHG
TYVALSSIDKTNWQRSFSRNGYLDPISKRSNLHVLTGHTVTGIIFDRSGKNAQATGVHYA
ASSNEASHTVHANKEVIISGGAINSPQILQLSGIGDKNLLNGLGIDVVVDLPGVGENLQD
HVSAGMSFKPKNKKDAGPTSVTGDADSYVNSAVSYTSLGKLFNNKDSILGKIQARAKQ
IADSHNVSPAVKQGQSKAYNALADTIFPSKVSPVEILGNVMFGSISIQAAALQHPLSRGSI
KITSKDPFAYPKINPNYFAENLDL VLLREGFKLIREMSQQSPLKDVDFETVPGDKVQTN
EDWENWIRSAAGTEYHPSSTCAMLPRGDGGVVDENLKVYGTSNLRVVDASVTPIAMSCHL
ESVYVYGLAEVAADIILGN

>AAY84564.2 Putative group 15 allergen protein [Dermatophagoides pteronyssinus]
MKTSCAILILMACFGLMNAAVKRDHNNYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFIDEYKYTIQVDFPYQDDNHNTWEKHGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSMDVANPTYRQQFVQSVLDFLQEKFDGLDLDWEYPGSRLGNPKIDKQNYLTLV
RELKEAFEPFGYLLTAAVSPGKDKIDVAYELKELNQLFDWMNVMTYDYHGGWENVFGHNA
PLYKRPDETDELHTYFNVNYTMHYLNNGATRDKLVMGVPFYGRAWSIEDRSKVKLGDP
KGMSPPGFITGEEGVLSYIELCQLFQKEEWIHYDEYYPYGYNDKIWVGYDDLASISC
KLAFLKELGVSVMWISLENDDFKGGHCGPKYPLLNKVHNMINGDEKNSYECLLGPSTTTP
TPTTPTSTPTTPTPTTPTSTPTTPTPTTPTSTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTT
STTTPTPTTDDSTSETPKYTTYVDGHLIKCYKEGDLPHPTNIHKYLVCEYVNGGWWVHIM
PCPPGTIWCQEKLTCITE

>ABB52642.1 Allergen tropomyosin [Dermatophagoides pteronyssinus]
MEAIKNKMAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMEGLENQSKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKAQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSISDEL DQTF AEL

>Q63213 Putative Alpha-2u globulin [Rattus norvegicus]
MKLLLLLLCLGLTLVCGHAEAEASFERNLDVDKLNWDWFSIVVASDKREKIEENGSMRVF
VQHIDVLENSLGFTRIKENGVCTEFLVADKTAKDGEYFVEYD GENTFTILKTDYDNYV
MFHLVNVNNGETFQLMELYGRTKDLSSDIKEKFAKLCVAHGITRDNIIDLTKTDRCLQAR
G

>ABB78006.1 Allergen major allergen Pru p 1 [Prunus persica]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAQAIAKHSEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENHSYSYTLIEGDALGDNLEKISYETKLVASPSGGSIIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>ABB88514.1 Allergen Bomb m 1; arginine kinase [Bombyx mori]
MVDAATLEKLEAGFSKLQGSDSKSLKYL TREVFDSLKNKKT SFGSTLLDCIQSGVENL
DSGVGIYAPDAESYSVFAELFDPIIEDYHNGFKKTDKHPKNWGDVDTLGNLDPAGEFVV
STRVRCGRSLEGYPFNCLTESQYKEMEDKVSGLTSSLEGELKGTFFYPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPTGRGIYHNENKTFLVWCNEEDHLRIISMQMGGDLQQ
VYKRLVSAVNEIEKKIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAADKKKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMYDGAELIKIEKSL

>ABB89296.1 Allergen Bla g 6; troponin C [Blattella germanica]
MDELPEQIQLLKKAFDAFDREKKG CISTEMVGTILEMLGHRLLDDMLQEIIAEVDADGS
GELEFEFVSLASRFLVEEDAEAMQELREAFRLYDKEGNGYITTNVLRILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>ABB89297.1 Allergen Bla g 6; troponin C [Blattella germanica]
MDEIPAEQVLLKKAFDAFDREKKG CISTEMVGTILEMLGTRLDQDMLDEIIAEVDADGS
GELEFEFCTLASRFLVEEDAEAMQHELREAFRLYDKEGNGYITTA VLREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>ABB89298.1 Allergen Bla g 6; troponin C [Blattella germanica]
MADEQLQLPPEQISVLRKAFDAFDREKSGSISTNMVEEILRLMGQPFNRRTLEELIDEVD
ADKSGRLEFDEFVTLAAKFIIIEEDSEAMEKELREAFRLYDKEGNGYIPTSCLEILRELD
EQLTSELDMMIEEIDADGSGTVDFDEFMEMMTG

>ABB89950.1 Allergen Pen c 30; catalase [Penicillium citrinum]

MHLLAFATDLVGIANAACPYMTGEVPGDYSPELHRRADDEGAADNTEEFLSQFYLNKDKA
YLTSDVGGPIEDQNSLSAGERGPTLLEDFIFRQKIQHFDHERVPERAVHARGAGAHGVFT
SYADWSNITAASFLSKKDKETPMFVRFSTVAGSRGSADTARDVHGFATRFYTDEGNFDIV
GNNIPVFFIQDAIQFPDLIHAVKPSGDNEIPQAAATAHDSAWDFFSQQPSSLHTLLWAMAG
HGIPRSFRNVDGFGVHTFRFVTDSDGKSKLVKFWKGLQGKASLVWEEAQQISGKNPDLR
QDLWDAIEAGRFPWELGVQIMDEEDQLRFGFDLLDPTKIVPEEIPVTKLKGKMTLNRNP
RNYFAETEQQVMFQPGHIVRGVDFDTPDLLQGRFLSYLDTQLNRHGGPNFEQLPINRPRTP
IHNNNRDAGQMFIPLNKDAYSPNTLNNASPKQANQTTGKGFFTTPSRKGNGKLQRTVSS
TFEDVWSQPRLFWNSLVEAEKQFVVDATRFENSNNVSDIVRNNVIIQLNRISNDLAKRVA
EAIGIEAPKPDPSFYHDNTTAHIGAFGQKLLKLEGLKVGVLASVQNASSVSSAASLQSQL
KDAGVDVVVAERLGDGVNQTYSGSDAIQFDVAVVADGAEGLFSSRSFTEKPVKNKASSL
FPAGRPLDILVDAFRFGKPVGAIGKGAALRAAQISSDREGVYAAKSIGNEFVKGLKEGL
RIFKFLDRFALDA

>Q96X30.3 Putative Enolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Allergen Asp f 22) [Aspergillus fumigatus]

MPISKIHARSVYDSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAHELDRDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKL DGTANKSNLGANAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVFPQNVLNGGSHAGGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYQGSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAIELKSCNALLKVNQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPCRSERLAKLNQILRIEE
LGENAVYAGSKFRTAVNL

>P79017.2 Putative Major allergen Asp f 2 precursor (Asp f II) [Aspergillus fumigatus]

MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGGQWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSSGSGSGATTTPDPSATIDVPSNCH
THEGGQLHCT

>O60024.2 Allergen Allergen Asp f 4 precursor [Aspergillus fumigatus]

MQLKNSMLLLTALAAGSSVARLHGHERHLHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNVAAAAAASPSSSHSDSSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFYKGNVGPWGSNIIEVSPENAKKYKHVAQFVGSDDPWTVVFWNKIG
PDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAWGAAGDELPKDQFGGYSCTWGEFD
FDSKINQGWGWDVSAIQAENAHHEVQGMKICNHAGELCSIISHGLSKVIDAYTADLAGV
DGIGGKVVPGPTLVLVNLDYKE

>O42799.2 Putative Allergen Asp f 7 precursor [Aspergillus fumigatus]

MAPIFKSLALVSALFAAIISSAAPVNLDKREVDVWTTVTTVVWTTIDVTTTIYPTPQAPT
PPVVESTPTPTPSAAPEQAETSTQPETTKSQPTQPSVATFIPVAAAAAADSAAPIP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSNGSTEKAASSGYSGPCSKGSPCVGQLTYID
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK
PTDLDASRHLFGELADFSAGRIDGMSWYFN

>Q8NKF4.2 Putative 60S ribosomal protein L3 (Allergen Asp f 23) [Aspergillus fumigatus]

MSHRKYEAPRHGSLAFLPRKRAARHRGKVKSFDPKDPKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWYKSKKKAFTKYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPLKQKKAHLM
EIQVNGGSVADKVDNFARNLFEKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTTKLP
RKTHKGLRKVACIGAWHPSHVQWTVARAGQMGYHHRTSCNHKVFRIKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKNDYIMVKGSPVGVKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPEEKRAFMTLKKDLVTSA

>Q9UUZ6.2 Allergen 60S acidic ribosomal protein P2 (Allergen Asp f 8) (AfP2) [Aspergillus fumigatus]

MKHLAAAYLLALAGNTSPSSEVKA VLSSVGIDADEERLNKLI AELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGGAAAPAAEEKKEEKEEEDMGGFLFD

>Q92450.3 Allergen Superoxide dismutase [Mn]

MSQQYTLPLPYDALQPYISQQIMELHHKHHQTYVNLNAALEAQKKAEEANDVPKL
VSVQQAIFNGGGHINSLFWKNLAPEKSGGGKIDQAPVLKAAIEQRWGSFDFKDAFNT
TLLGIQGSWGWLVTDGPKGKLDITTHDQDPVTGAAPVFGVDMWEHAYYLQYLNDKASY
AKGIWNVINWAEAENRYIAGDKGGHPFMKL

>CAJ43561.1 Allergen staphylococcal enterotoxin B precursor (SEB) [Staphylococcus aureus]

IFVLILVISTPNVLAESQDPKDELHKASKFTGLMENMKVLYDDNHVSAINVKSIDQFL
YFDLIYSIKDTKLGNYDNVRVEFKNKDLADKYKDKYVDVFGANYYYQCYFSKKTNDINSH
QTDKRKTCMYGGVTEHNGNQLDKYRSITVRVFEDGKNLLSFDVQTNKKKVTAQELDYLTR
HYLVKNKLYEFNNSPYETGYIKFIENENSFWYDMMPAPGDKFDQSKYLMMYNDNKMVDS
KDVKIEVYLTTKK

>ABC02750.1 Putative profilin [Litchi chinensis]

MSWQAYVDDHLMCETDQHLTAAAIIGHDGSVWAQSANFPQFKPVEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGA VIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLVQGL

>ABC18306.1 Allergen Fag e 2; 2S albumin [Fagopyrum esculentum]

MKLFILATATLLIAATQATYPRDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDI
LDDKYAEALSVEGEGCKSEESCMRGCCVAMKEMDDECVCEWMKMMVENQKGRIGERLIK
EGVRDLKELPSKCGLSELECGSRGNRYFV

>BAE54429.1 Putative tropomyosin [Sepia esculenta]

MDAIKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYSNLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRRIQLLEEDLERSEERL TSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRELEDELLAEKERYKSIDELDQTF AELAGY

>BAE54430.1 Putative tropomyosin [Sepioteuthis lessoniana]

MDAIKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKIEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRELEDELLAEKERYKTISDEL DQTF AELAGY

>BAE54431.1 Putative tropomyosin [Todarodes pacificus]

MDAIKKMLAMKMEKEVATDKAEQTEQSLRDLEAAKNTIEEDLSTLQKKYSNLENDFDNA
KENLTVANTNLEASEKRVNECESEIQGLNRRRIQLLEEDLERSEERL TSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRELEDELLAEKERYKSIDEL DQTF AELAGY

>BAE54432.1 Putative tropomyosin [Ommastrephes bartramii]

MDAIKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRELEDELLAEKERYKTISDEL DQTF AELAGY

>BAE54433.1 Putative tropomyosin [Octopus vulgaris]

MDAIKKMLAMKMERELATDKAEQTDQKLRDTE DNKNKLEEDLTTLQKKFSNLENDFDNA
KEQLAEANQKLETSEKRVGECSEIAGLNRRRIQLLEEDLERSEERL STAQTKLDEASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRELEDELLAEKERYKAISDEL DQTF AELAGY

>2AS8_B Allergen Chain B, Crystal Structure Of Mature And Fully Active Der P 1 Allergen [Dermatophagoides pteronyssinus]

TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRQQSLDLAEQ
ELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYRYVAREQSCRPNARFGISNYCQIY
PPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNA

QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>2CYG_A Allergen Chain A, Crystal Structure At 1.45- Resolution Of The Major Allergen Endo-Beta-1,3-Glucanase Of Banana As A Molecular Basis For The Latex-Fruit Syndrome [Musa acuminata]

IGVCYGM LGNNLPPPSEVVSLYKSNNIARMRLYDPNQAALQALRNSNIQVLLDVPRSDVQ
SLASNPSAAGDWIRRVVAYWPSVSFRYIAVGNELIPGSDLAQYILPAMRNIYNALSSAG
LQNQIKVSTAVDTGVLGTSYPPSAGAFSSAAQAYLSPIVQFLASNGAPLLVNVVYPYFSYT
GNPGQISLPYALFTASGVVVQDGRFSYQNLFDAIVDAVFAALERVGGANVAVVVSESGWP
SAGGGAEASTSNAQTYNQNLIRHVGGGTTPRRPGKEIEAYIFEMFNENQKAGGIEQNFGLF
YPNKQPVYQISF

>Q948T6.2 Putative Lactoylglutathione lyase (Methylglyoxalase) (Aldoketomutase) (Glyoxalase I) (Glx I) (Ketone-aldehyde mutase) (S-D-lactoylglutathione methylglyoxal lyase) (Allergen Ory s ?) (Allergen G1b33) (PP33) [Oryza sativa]

MASGSEAEKSPEVVLEWPKKDKKRLH AVYRVGDLDRTIKCYTECFGMKLLRKRDPVEEK
YTNAFLGFGPEDTNFALELTNYNYGVDKYDIGAGFGHF AIA TEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFELIQRGPTPEPLCQVMLRVGDLDRSIKFYEKALGMK
LLRKKDVPDYKYTIAMLG YADEDKTTVIELTYNYGVTEYTKGNAYA QVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNTKIASFLDPDGWKVVLVDNADFLKELQ

>ABC68516.1 Allergen Bla g 11; alpha-amylase [Blattella germanica]

MKLFPLVALLVLVVGVL SQKDPHVWDGRSAIVHLFEWK FADIAD ECERFLGPKGFAGVQV
SPVHENVIISSPFRPWWERYQLVSYKLVSRSGDENAFRDMVRR CNV GIRIYVDVVLNQ M
SGSWPDAHGGGSTADTYNLQYPAVPYGP GDFHSTCTVSNYQDPSNVRNCELVGLHDLNQ
GSDYVRGKMIEYLNHLVDCGVAGFRVDAAKHMWPADLQYIYSKVNNLNTDHGFP SGARPF
FYQEVIDLGGEAIHSTEYTGFGRVTEFKYSRDIGDAFRGNNAIKWLVNFGVGVWGYIPDGD
ALVFVDNHDNQRGHGAGGASILTYKTSKLYKMAVAFMLAYPYGYPRVMSSFSFDNSDQGP
PQDGNGNIISPSINADGTCGNGWVCEHRWRQIFNMVGF RNAVAGTAVSNWWDNGDKQISF
CRGNKGFVAFNDEFNNDLKQTLQ TCLPAGDYCDVISGSYENG SCTGKT VTVGSDGKAYIE
ILSSADDGV LAIHVNSKVGSKSQT TTTQSSHCTCS

>P46075.3 Allergen Asp f 5; metalloprotease [Aspergillus fumigatus]

MRGLLLAGALALPASVFAHPAHQSYGLNRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPQSYVEVATQHVKMIAPDATFRVVDH YVGDNGVAHVHFRQTANGLDIDNADFNVN V
GKDGVKVS YGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTE EK
ESYVFKGVS GTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTT SRGNNGIAQSN
PSGGSSYLNNYRPSSSSLSFKYPYSVSSSPSSYIDASIIQLFYTANIYHDL LYTLGFTE
KAGNFEYNTNGQGGLGNDYVILNAQDGS GTNNANFATPPDGQPGRMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALES GGMGEGWSDFMATAIRLKP GDKRSTD
YTMGEWASN RAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASMLYEV LWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNP NFVQARDAILDADTALTGGENQ
CEIWTAFAKRGLGAGAKYSSRNRV GSTEVPSGVC

>P82947.1 Putative Major Gly 50 kDa allergen [Glycine max]

ANPTFGFTPLGLSSDAN

>ABC73068.1 Allergen venom allergen 5 [Vespula maculifrons]

MEISGLVYLIIIVTIIDL PYGKANNYCKIKCLKGGVHTACKY GSLKPNCGNKV VVSYGLT
KQEKQDILKEHNDFRQKVARGLETRGNPGPQPPAKNMKNL VWNDELA YVAQVWANQCQYG
HDTCRDVAKYQVGNVALTGSTA AKYENPVNLVKMWENEVKDYNPKKKFSENNFIKIGHY
TQM V WANTKEIGCGSMKYTENKWHYHYLVCNYGPSGNFGNEELYQTK

>ABC73706.1 Allergen Der p 21; unknown [Dermatophagoides pteronyssinus]

MKFIITLFAAIVMAAAVSGFIVGDKKEDEWRMAFDRLMMEELETKIDQVEKGLLH LSEQY
KELEKTKSKELKEQILREL TIGENFMKGALKFFEMEAKRTDLNMFERYNYEFALESIKLL
IKKLDELAKKV KAVNPDEYY

>P84527.1 Allergen Act d 5; kiwellin [Actinidia deliciosa]

ISSCNGPCRDLNDCDGLICIKGKCND DPQVGTHICRGTT HSHQPGGCKPSGTLTCRGKS
YPTYDCSPPVTSSTPAKLTNNDFSEGGDDGGPSECDESYHNNNERIVALSTGWYNGG SRC
GKMIRITASNGKSVSAKVVDECD SRHGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNVG

VVDITWSMA

>Q00002.2 Putative Protein disulfide-isomerase (PDI) (Allergen Alt a 4) [*Alternaria alternata*]
ARDMTKQALPAVSEVTKDTLEEFKTADKVVLVAYFAADDKASNETFTSVANGLRDNFLFG
ATNDAALAKAEGVKQPGLVCTSPSTTARTSSPRPSMRTYPRLRKVASTPLIGEVGPETYA
GYMAAGIPLAYIFAETPEEREEFAKELKPLALKHKGEINFATIDAKSFGQHAGNLNLKVG
TWPFAIQRTEKNEKFPTNQEAKITEKEIGKFVDDFLAGKIDPSIKSEPIPESNDGPVTV
VVAHNYKDVVIDNDKDVLEFYAPWCGHCKALAPKYEELGQLYASDELSKLVTIKVDAT
LNDVPDEIQGFLPSSLFPLARRMPQSTTLVPHCRGSRPVHRRERLTQASASVGEAVEDAT
ESAKASASSATDSAASAVSEGTETVKSGASVASDSASSAASEATKSVKSAASEVTNSASS
AASEASASASSVKDEL

>ABC96702.1 Allergen Der s 2 a allergen [*Dermatophagoides siboney*]
MISKILCLSLVAADVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFITLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHFIKCPVLKGGQYDAKYTNVNPKIAPKSEN
VVVTVKLIGDNGVLACAIATHAKIRD

>ABD39049.1 Allergen Fra a 1-A allergen [*Fragaria x ananassa*]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAHPGGTVIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>1Z3Q_A Allergen Mus a 4; thaumatin-like protein (TLP) [*Musa acuminata*]
ATFEIVNRCSYTVWAAA VPGGGRQLNQGQSWTINVNAGTTGGRIWGRTGCSFDGSGRGRRC
QTGDCGGVLSCTAYGNPNTLAEFALNQFNLDFFDISLVDGFNVPMDFSPSTSGGCRGIR
CAADINGQCPGALKAPGGCNPCTVFKTDQYCCNSGACSPTDYSQFFKRNCPDAYSYPKD
DQTTTFTCPGGTNYRVVFCP

>ABD51779.1 Putative allergen Api m 6 variant 2 precursor [*Apis mellifera*]
MSRLVLASFLLLAVFMSLVGGFGGFGGGLGGRGKCPSEIFSRCDGRCQRFPCPNVVPK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCLPG

>ABD79094.1 Putative Zea m 1 allergen [*Zea mays*]
MWSLMQAQVAMVVALSFLVSGAWCGPPKVPPGKNITATYGKDWLDAKATWYGKPTGAGPD
DNGGGCGYKDVNKPPFNMGACGNIPIFKDGLGCGSCFEIKCDKPVCEGKPVVVHITDM
NYEPIAA YHFDLAGTAFGAMAKKGEEELRKA GIIDMQFRRVKCKYFSKVSFHLEKGC
NYLALLVKYVDGDGDIVPVDIKEKGS DTYEPLKHSWGAIWRKDS DKPLKGPLTVRLTTEG
GKT TVYDDVIPANWKANTAYTAK

>ABD79095.1 Putative Zea m 1 allergen [*Zea mays*]
ARALVFLVSGAWCGPPKVPPGKNITATYGKDWLDAKATWYGKPTGAGPD DNGGGCGYKDV
NKPPFNMGACGNIPIFKDGLGCGSCFEIKCDKPVCEGKPVVVHITDM NYEPIAA YHFD
LAGTAFGAMAKKGEEELRKA GIIDMQFRRVKCKYDSKVTFHLEKGC GPNYLALLVKYVD
GDGDIVAVDVKEKGS DTYEPLKHSWGAIWRKDS DKPLKGPLTVRLTTEGGTKSVYDDVIP
ANWKANTAYTAK

>ABD79096.1 Putative Zea m 13 allergen [*Zea mays*]
MACIDNAMRALFLLALFCVVHGEKAKSKDNDKASGPGGSFDITKLGASGNGKTDSTKAV
QEAWASACGGTGKQITILIPKGDVFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGN
WIEILRVDNLVITGKGKLDGQGPVWVSKNSCVK KYDCKILPNSLVMDFVNNGEVSGITLL
NSKFFHMNMYKCKDMLIKDVNVTAPGDS PNTDGIHMGDSSGVTITNTVIGVGDDCISIGP
GTSKVNITGVTCGPHGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASV
LTASKIHYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNITGTSSTPEAV
NLLCSAKIPCTGVTMDDVNIKYSGTNNKTMVCKNAKGS AKGCLKELACF

>ABD79097.1 Putative Zea m 13 allergen [*Zea mays*]
ARGALFLLALFCVVHGEKAKSKDNDKASGPGGSFDITKLGASGNGKTDSTKAVQEAWAS
ACGGTGKQITILIPKGDVFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGNWIEILR
VDNLVITGKGKLDGQGPVWVSKNSCVK KYDCKILPNSLVMDFVNNGEVSGITLLNSKFFH
MNMNMYKCKDMLIKDVNVTAPGDS PNTDGIHMGDSSGVTITNTVIGVGDDCISIGP GTFKVN
ITGVTCGPHGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASVLTASKI
HYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNIPGTSSTPEAVNLLCSA
KIPCTGVTMDDVNIKYSGTNNKTMVCKNAKGS AKGCLKELACF

>ABD79098.1 Putative Zea m 13 allergen [Zea mays]

ARACTDNAMRALFLLVLFIVHGEKEESKSIDAKASGPGGFFDITKLGASNGKTDSTKA
VQEA WASACGGTGKQILIPKGDVFLVQNLNFTGPKGDVTIQVDGNLLATDLSQYKEHG
NWIEILRVDNLVITGKGNLDGQPAVWSKNFCTKKYDCKILPNSLVMDFVNNGEVSGITL
LNSKFFHMNMYQCKNMLIKDVTVTAPGDSPTDGIHMGDSSGITITNTVIGVGDDCISIG
PGTSKVNITGVTCGPGHGISIGSLGRYKDEKDV RDINVKDCTLKKT MFGVRIKAYEDAAS
VLTVSKIH YENIKMEDSANPIFIDMKYCPNKLCTANGASKVTVKDITFKNITGTSSTPEA
ISLLCTAKVPCTGVTMDDVNVEYSGTNNKTMAICTNAKGSTKGCLKELACF

>CAI84850.2 Putative vicilin-like protein, partial [Lupinus albus]

MGKMRVRFPTLVLVLGIVFLMAVSIGIAYGEKDV LKSHERPEEREQEEWQPRRQR PQSRR
EEREQE EQGSPSYPRRQSGYERRQYHERSEQREEREQEQQGSPSYSRQRNPHYFNSQ
RFQTL YKNRNGKIRVLERFDQRTNRLNLQNYRIVEFQSKPNTLILPKHSDADYVLVVLN
GRATITIVNPD RRQAYNLEYGDALRIPAGSTS YILNPD DNQKLRVVKLAIPINNP GYFYD
FYPSSTKDQQSYFSGFSRNTLEATFNTRYEEIQRILLGNEDEQEYEEQRRGQEQSHQDEG
VIVRVSREQIQELTKYAQSSSGKDKPSQSGPFNLSNEPIYSNKYGNFYEITPDRNPQVQ
DLDISLTFTEIN EGALLLPHYNSKAIFIVVVGEGNGKYELVGIRDQQRQQDEQE EEP EEV
RRYSARLSEGDIFVIPAGYPISVNASSNLRLLGFGINAYENQRNFLAGSEDNVIRQLDRE
VKELTFPGSAEDIERLIKNQQQSYFANALPQQQQQSEKEGRRRGRRGPIS I

>CAJ85641.1 Allergen Major strawberry allergen Fra a 1-B [Fragaria x ananassa]

MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>CAJ85642.1 Allergen Major strawberry allergen Fra a 1-D [Fragaria x ananassa]

MGGYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>CAJ85644.1 Allergen Major strawberry allergen Fra a 1-C [Fragaria x ananassa]

MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGTIIKTTSKY
HTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>CAJ85646.1 Allergen Major strawberry allergen Fra a 1-E [Fragaria x ananassa]

MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLVSAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKAAHLFLKIEGYLKDHPSEYN

>CAI78448.1 Allergen Asp f 27; cyclophilin [Aspergillus fumigatus]

MVVKTFFDITIDGQPAGRITFKLFDEVVPKTVENFRALCTGEKGFYK GSSFHRIIPQFM
LQGGDFTKGNGTGGKSIYGDRFPDENFQLKHKDPGLLSMANAGKNTNGSQFFITTVVTSW
LDGAHVVFGEVEDGMDLVKKIESYGSASGTPK KKITIADCGQL

>CAI78449.1 Allergen Asp f 28; thioredoxin [Aspergillus fumigatus]

MSHGKVIADVNPPIYKALTSSGPVVVDF FATWCGPCRAVAPKVGELSEKYSNVRFIQVDV
DKVRSVAHEMNIRAMPTFVL YKDGQPLEKRVVGGNVRELEEMIKSISA

>CAI78450.1 Allergen Asp f 29; thioredoxin [Aspergillus fumigatus]

MSHNVEKITDAKVFEKEVQEGSGPVIVDCSATWCGPCKAISPVFQRLSTSEEFKNAKFYE
IDVDELSEVA AELGVRAMPTFMFFKDGQKVNEVVGANPPALEAAIKAHVA

>NP_001035360.1 Putative allergen Api m 6 variant 1 [Apis mellifera]

MSRLVLASFLLLAIFSMLVGGFGGFGGFGLGGRGKCP SNEIFSRCDGRCQRFCPNVVPK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCG

>ABF18122.1 Allergen 30 kDa salivary gland allergen variant 2 [Aedes aegypti]

MKPLVKLFLFCLV GIVLSRPMPEDEEPAEAGGDDASGESEGE EETTDDAGGDG GEEEN
EGEEHAGDKDAGGEDTGKEENTGHDDAGEEDAGEEDAGEEDAGEEDAGEEDAEKEE GEKE
DAGDDAGSDDGEEDSTGGDEGEDNAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEY
LRSALNNDLQSEVRVPVVEAIGRIGDYSKIQGC FKS MGKDVKKVISEEEKKFKSCMSKKK
SEYQCEDSFAAAKSKLSPITSKIKSCVSSKGR

>ABF21077.1 Putative icarapin variant 1 precursor [Apis mellifera]

MKTLGVLFIAAWFIACHTSFPGAHDEDSKEERKNVDTVLVLPSIERDQMMAATFDFPSSL
FEDSDEGSNWNWNTLLRPNFLDGWYQTLQSAISAHMKKVREQMAGILSRIPEQGVVNW
IPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQNETILTTSSEAD
SDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDVLT

>ABF21078.1 Allergen Api m 10; icarapin [*Apis mellifera*]

ERDQMMAATFDFPSSLFEDSDEGSNWNWNTLLRPNFLDGWYQTLQTHMKKVREQMAGILS
RIPEQGVVNWNIPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQ
ETILTTSSEADSDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDVLT

>P0C1B3.1 Allergen Asp o 21; TAKA-amylase A [*Aspergillus oryzae*]

MMVAWWSLFLYGLQVAAPALAAPADWRSQSIYFLLTDRFARTDGSTTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQTTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCFIQNYEDQT
QVEDCWLGDNVSLPDLDTTKDVVKNNEWYDWVGSLSVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPIYYPLLNAFKSTSGSMDDLNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIIPIYAGQE QHYAGGN
DPANREATWLSGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSSGAGYTAGQQLTEVIGCTTVTVGSDGNVPMAGGL
PRVLYPTEKLAGSKICSSS

>CAI94601.1 Allergen par j1.0103 protein, partial [*Parietaria judaica*]

QETCGTMVRALMPCLPFVQGKEKEPSKGCSSGAKRLDGETKTGPQRVHACECIQTAMKTY
SDIDGKLVSEVPKHCGIVDSKLPIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGSPDAH
KARLERPQIRVPPAPEKA

>CAK22338.1 Allergen Der p 2 allergen precursor [*Dermatophagoides pteronyssinus*]

MMYKILCLSLVAAVAADQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEA
NQNTKNAKIEIKASIDGLEVDVPGIDPNACHYVKCPLVKGQQYDIKYTNVVKIAPKSEN
VVVTVKVLGDNGVLACAIATHAKIRD

>ABF81661.1 Putative EXPB10 [*Zea mays*]

CKYGSKVTFHLEKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKD
SDKPIKGPITVRLTTEGGTKTVYDDVIPAEWKPNAYTT

>ABF81662.1 Putative EXPB10 [*Zea mays*]

MTVVSIMWSLVQVQVLVAVALSFLVGGAWCGPPKVPPGKNITANYGSDWLDKATWYGKP
TGAGPDDNGGGCGYKDVNKAPFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECSGKPVV
VYITDMNYEPIAA YHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKYGSKVTFHL
EKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKDSKPIKGPITV
RLTTEGGTKTVYDDVIPTDWKPNTAYTTK

>ABG02262.1 Allergen Vig r 2; 8S globulin (vicilin- like protein) [*Vigna radiata*]

MVRARVQLLLGILFLASLSVSGIVHREHQESQEESDSRGQNNPFYFNSDRRFHTLTKNQ
YGHLRVIHRFDQRSKQIQNLENYRVVEFKSKPNTLLLPHHADADFLLVVLNGRAILTLVN
PDGRDSYILEQGHAKIPAGTFFLVNPNNDNDNLRIIKLAIPVNNPHRFQNFLLSSTEAQ
QSYLRGFSKNILEASFDSDFKIEDRVLFGEERQQQHGEESQEEGVIVELKREQIRELIKH
AKSSSRKELSSQDEPNLRSNPIYSNKFGRWYEITPEKNPQLKDLDVFISSVDMKEGGL
LLPHYNSKAIVILVINEGEAKIELVGPSDQQQDESLEVQRYRAELSEDDVFVIPAAYPV
AINATSNLNFFAFGINAENNQRNFLAGEKDNVMSEIPTEVLDVSPASGNKVEKLIKQVS
ESHFVDAQPEQQQREEGHKGRKGSLSILGSLY

>Q40638.2 Putative Expansin-B1 precursor (OsEXPB1) (Beta-expansin-1) (OsaEXPb1.2) (OsaEXPb1.3) (Major pollen allergen Ory s 1) (Ory s I) [*Oryza sativa* (japonica cultivar-group)]

MASSLLLACVVVAAMVSAVSCGPPKVPPGPNITTSYGDKWLEAKATWYGAPKGAGPKDN
GGACGYKDVDKAPFLGMNSCGNDPIFKDGKGCSCFEIKCSKPEACSDKPALIHVTDMND
EPIAA YHFDLSGLAFGAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNP
NYLALLVKYVAGDGDVVEVEIKEKSEWKALKESWGAIWRIDTPKPLKGPFSVRVTTEG
GEKIIAEDAIPDGWKADSVYKSNVQAK

>ABG54494.1 Putative putative allergen Rub i 3 [*Rubus idaeus*]

MACSAVMKLALVALLCIVVAVPVAQAITCGQVTQNVAPCFNYVKNGGAVPAACCNGVRNL
NSQAKTTADRQTCNCLKNAAGSIPGLNPSLAAGLPGKCGVSVPYKISTSTNCATVK

>ABG54495.1 Putative putative allergen Rub i 1 [Rubus idaeus]

YTSVIPPPKLFKAFVLDADNLPKIAPQAVKSVEIIEGDDGGVGTVKKIHLGEGTEHSYVK
HKIDGLDKVNFVYSYSITEGDALGDKIEKISYEIKLVASGRGSIKTTSHYHCKGGAEIK
EEQVKD GKERAAGL FKI

>CAL07989.1 Allergen lipid transfer protein [Platanus x acerifolia]

MAFSRVAKLACLLACMVATAPHAEEAITCGTVVTRLTPCLTFLRS GGAVAPACCNGVKA
LNDAKTTTPDRQAACGCLKTASTSISGIQLGNAASLAGKCGVNL PYKISPTIDCSKVK

>CAK50389.1 Allergen ani s 4 allergen [Anisakis simplex]

MQSRIVVAVVVFFCCIILMQTEAGMLGGSSDVDVNDPEIKELAGKSIAMINDGKPHE
LVKVVS AKKQVVAGDKY TLEILVKDGDH QDLCTVTIWQKKWENFEEVKVLKCDHQ

>ABG73108.1 Putative Pis v 1 allergen 2S albumin [Pistacia vera]

MAKL VLLLSAFAFLILAA NASIYRATVEVEGENLSSGQSCQKQFEEQQKFKHCQMYVQQE
VQKSQDGHSLTARINQRQQCFKQCCQELQEV DKKCRCQNLEQMVKRQQQQGQFRGEKLQE
LYETASELPRMCNISP SQGCQFSSPYWSY

>ABG73109.1 Allergen Pis v 2; 11S globulin / legumin-like protein [Pistacia vera]

MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFW DQNEEQ LQC ANVA VFRHTIQSRG LLVPSYD NAPELVYVVQ GSGIHGA VFPGCP
ETFQEESSRSRSERSQQSGEQHQKVRPIQEGDVIALPAGVAHWIYNNNGQSKLVLVALAD
VGENSENQLDQYLRKFVLGGSPQQEIQGGSGQSRRSQSQSSRRGQQGQSSNNILSAFDEEI
LAQSFNIDTQLARRLQKEKRQRGIIVRVQEDLEVLSPHRQEQEQEYEEERERRQRNGLEE
TFCTMTLKY NINDPSRADVYNPRGGRVSSVNALNLPILRFLQLS AKKGV LHRDAILAPHW
NVNAHSIVYITRGNRIQIVSENGESVFDEEIREGQLVVVPQNF AVVKRASSDKFEWVSF
KTNGLSQTSQLAGRVSVFRALPLDVIKNSFDISREDARRL KESRSETTIFAPGSSSQRKS
QSERERQREEREIEH

>ABG73110.1 Allergen Pis v 2; 11S globulin / legumin-like protein [Pistacia vera]

MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFW DQNEEQ LQC ANVA VFRHTIQSRG LLVPSYNNAPELVYVVQ GSGIHGA VFPGCP
ETFQEESSQSRSQHRSERSQQSGEQHQKVRHIREGDIALPAGVAHWIYNNNGQSKLVL
VALADVGNSENQLDQYLRKFVLGGSPQQEIQGGGQSWQSRSRKGQQSNNILSAFDEEI
LAQSFNIDTQLVKKLQREEKQRGIIVRVKEDLQVLS PQRQEKEYSDNGLEETFC TMTLKL
NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNRMQIVSENGESVFDEEIREGQLVVVPQNF AVVKRASSDGF EWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSR SQRQRN

>ABG76196.1 Allergen group 2 allergen Der p 2 [Dermatophagoides pteronyssinus]

RDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEANQNSKTAKIEIKASID
GLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDNGVLAC
AIATHAKIRD

>ABG81289.1 Putative pollen profilin variant 2 [Phleum pratense]

MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQC NMVVE
RLGDYLVKQGL

>ABG81290.1 Putative pollen profilin variant 3 [Phleum pratense]

MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQC NMVVE
RLGDYLLKQGL

>ABG81291.1 Putative pollen profilin variant 4 [Phleum pratense]

MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQC NMVVE
RLGDYLLKQGL

>ABG81292.1 Putative pollen profilin variant 5 [Phleum pratense]

MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQC NMVVE
RLGDYLLKQGL

>ABG81293.1 Putative pollen profilin variant 6 [Phleum pratense]

MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGA VIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81294.1 Putative pollen profilin variant 7 [Phleum pratense]

MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGA VTRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>ABG81295.1 Putative pollen profilin variant 8 [Phleum pratense]

MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPGA VIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCSMVVE
RLGDYLVKQGL

>ABG81312.1 Putative pollen profilin variant 1 [Zea mays]

MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNIKDFDEPGFL
APIGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>ABG81313.1 Putative pollen profilin variant 2 [Zea mays]

MSWQAYVDEHLMCEIEGHHLTSAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQAMVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>ABG81314.1 Putative pollen profilin variant 3 [Zea mays]

MSWQAYVDEHLMCEIEGHHLTSAIVGHDGAAWAQSTAFPEFKTEDMANIMKDFDEPGHL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81315.1 Putative pollen profilin variant 4 [Zea mays]

MSWQAYVDEHLMCEIEGHHLTSAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLLEQGM

>ABG81316.1 Putative pollen profilin variant 5 [Zea mays]

MSWQAYVDEHLMCEIEGHHLTSAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>ABG81317.1 Putative pollen profilin variant 6 [Zea mays]

MSWQAYVDEHLMCEIEGHHLTSAIVGHDGAVWAQSTAFPQSKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQAMVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>ABG81318.1 Putative pollen profilin variant 7 [Zea mays]

MSWQAYVDEHLMCEIEGHHLTSAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQAMVVGIIYDEPMTPGQCNMVVE
RLGDYLLNRA

>ABG85155.1 Allergen pathogenesis-related protein 10 [Arachis hypogaea]

MGVFTFEDEITSTLPPAKLYNAMKDADSLTPKIIDDVKSVEIVEGSGGPGTIKKLITIVED
GETRFILHKVEAIDEANYAYNYSVVGVALPPTAEKITFETKLVEGHNGGSTGKLSVKFH
SKGDAKPEEEDMKKKGKAKGEALFKAIEGYVLNPTQY

>ABH06346.1 Allergen Blo t 21 allergen [Blomia tropicalis]

MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLHITHEVDDLEKT
GNKDEKARPLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>ABH06348.1 Allergen Blo t 21 allergen [Blomia tropicalis]

MKFIIALAALIAVACALPVSNDNFRHEFDHMIINTATQRFHEIEKFLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>ABH06350.1 Allergen Blo t 21 allergen [Blomia tropicalis]

MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLHITHEVDDLEET
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA

GPPKVPPGXNITTYNGKWL TARATWYGQPNGAGAPDNGGACGIKNVNLPPYSGMTACGN
VPIFKDGGKCGSCYEVRCKEKEPCSGNPVTVYITDMNYEPIAPYHFDLSGKAFGSLAKPG
LNDKIRHCGIMDVEFRRVRCKYPAGQKIVFHIEKGCNPNYLAVLVKYVADDGDIVLMEIQ
DKLSAEWKPMKLSWGAIWRMDTAKALKGPF SIRL TSESGKKVIAKDVIPANWRPDAVYTS
NVQFY

>BAF32105.1 Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLI IQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTD GIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIYEN VEMINSEN PILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS DISLKL TSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32110.1 Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGS KKFVVNNLFFNGPCQPQFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLI IQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTD GIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIYEN VEMINSEN PILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS DISLKL TSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32116.1 Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGS KKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLI IQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTD GIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIYEN VEMINSEN PILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS DISLKL TSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32119.1 Allergen pollen allergen [Cryptomeria japonica]

MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDS DIEQYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLI IQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTD GIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIYEN VEMINSEN PILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDINLSDISLKL TSGKIASCLNDNANGYFS
GNVIPACKNLSPSAKRKESKSHKHPKTMVENMGA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32122.1 Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGS KKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLI IQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDS PNTD GIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIYEN VEMINSEN PILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS DISLKL TSGKIASCLNDNANGYFS
GNVIPACKNLSPSAKRKESKSHKHPKTMVENMGA YDKGNRTRILLGSRPPNCTNKCHGC

SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32128.1 Allergen pollen allergen [*Cryptomeria japonica*]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGTENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32130.1 Allergen pollen allergen [*Cryptomeria japonica*]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMGA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32133.1 Allergen pollen allergen [*Cryptomeria japonica*]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMGA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32134.1 Allergen pollen allergen [*Cryptomeria japonica*]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGIASCLNDNANGYFS
GHVIPACKNLSPNAKRKESKSHKHPKTMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32143.1 Putative pollen allergen [*Chamaecyparis obtusa*]

LDSDIEQYLRNRSRLKLVHSRHDAATVFNVEQYGA VGDGKHDS TEAFETA WNAACKKAS
AVLVVPANKKFFVVNNLVFRGPCQPHLSFKVDGTIVA QPDPARWKNSKIWLQFAQLTDFNL
MGTGVIDGQGGQWWAGQCKVVNGR TVCNDRNRPTAIKIDYSKSVTVKELTLMNSPEFHLV
FGECEGVKIQGLKIKAPRDSNPNTDGIDIFASKRFHIEKCVIGTGDDCIAIGTGSSNITIK
DLICGPGHGISIGSLGRDNSRAEVSHVHVNR AKFIDTQNGLRIKTWQGGSGLAS YITYEN
VEMINSENPIILINQFYCTSASACQNQRSAV QIQGVITYKNIHGTSATAAAIQLMCSDSVPC
TGIQLSNVSLKLTSGKPASCVDKNARGFYSGRLIPTCKNL RPGPSPKEFELQQPTTVM

>ABI98020.1 Allergen Lit v 2; arginine kinase [*Litopenaeus vannamei*]

MADAAVIEKLEAGFKKLEAATDCKSLLK KYLTKEVFDKLDKRTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVNSFVNVDPEGK FV
ISTRVRCGRSLQGYPFNCLTESQYKEMEAKVSS TSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNK TFLVWVNEEDHLRIISMQMGGDLG

QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGIKELIKIEKEM
>Q1ZYQ8.2 Putative Expansin-B10 precursor (ZmEXPB10) (Beta-expansin-10) (Pollen allergen Zea m 1c) [Zea mays]
MAVNVRTMWSSMRAQVAMVVALVFLVRGAWCGPPKVPPGKNITATYGKDWLDAKATWYGK
PTGAGPDDNGGGCGYKDVNKPFFNSMGACGNIPFKDGLGCGSCFEIKCDKPVCECSGKPV
VVHITDMNYEPIAAAYHFDLAGTAFGAMAKKGEEELRKAAGIIMQFRRVKCKYDSKVTFH
LEKGCNPNYLALLVKYVDGDGDIVAVDVKEKGSPTYEPLKHSWGAIWRKDSKPLKGLPT
VRLTTEGGTKSVYDDVIPANWKANTAYTAK
>P0C1Y5.1 Putative Expansin-B11 precursor (ZmEXPB11) (Beta-expansin-11) (Pollen allergen Zea m 1a) (Pollen
allergen Zea m 1b) [Zea mays]
MTVVSIMWSLVQVQVLAVALAFLVGGAWCGPPKVPPGKNITAKYGSWLDKATWYGK
TGAGPDDNGGGCGYKDVNKPFFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECSGKPVV
VYITDMNYEPIAAAYHFDLAGTAFGAMAKKGEEELRKAAGIIMQFRRVKCKYGSKVTFHL
EKGCPNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKDSKPIKGPITV
QLTTEGGTKTVYDDVIPAGWKPNTAYTAK
>CAL59818.1 Allergen hyaluronidase [Vespula germanica]
SERPKRVFNWVPTFMCHQYDLYFDEVTNFKRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYYKRNNGVPEGNITIHLEQFKFIENLDKTYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGY
GYPYCFNMSPNLVPECDVTAMHENDKMSWLFNQNVLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLSSYWWYVYQDETNTYLTETDVKKTFQEIVINGGDGIIIWSSS
DVNSLSKCKRLQDYLLTVLGPVAVNVTEAVN
>CAL59819.1 Allergen hyaluronidase homologue [Vespula germanica]
VITIWPKKGFSIYWNIPTHFCHNFGVYFKELKQFNKYNMNNFRGETISLFYDPGNFPS
MVLLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETS AKIFMEKTLKLAKEIRKKT EWG
YHGYPHCLSGSTDKPSFDCDALSMSSENDKMSWLFNQNVLPSIYLKNVLKPDEKIHVLVQ
ERLKEAIRSKNLKHLPKVLPYWWYTYQDKESIFLTEADVKNFTFKEILTNGADGIIIWGW
SYELTDRKRCEKLKEYLMKILGP
>ABK78766.1 Allergen major allergen Cup a 1 [Cupressus arizonica]
SDNPIDSCWRGDSNWDQNRMKLADCVVGFSSSTMGGKGGEIYTVTSSDNPNVPTPGTLR
YGATREKALWIFSQNMNIKLMPLVYNGYKTIDGRGADVHLGNGGPFCLFMRKASHVILH
GLHIHGCNTSVLGDVLVSESIGVEPVHAQDGD AITMRNVTNAWIDHNSLSDCSDGLIDVT
LGSTGITISNNHFFNHHKVMMLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVH
VANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRST
RDAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQNAGVVA
>P00791.3 Putative RecName: Full=Pepsin A; Flags: Precursor [Sus scrofa]
MKWLLLLSLVVLSECLVKVPLVRKKSRLRQNLKNGKLDKDFLTKHKHNPASKYFPEAAALI
GDEPLENYLDTEYFGTIGTGAQDFTVIFDTGSSNLWVPSVYCSSLACSDHNQFNPDDS
STFEATSQELSITYGTGSMGTGILGYDVTQVGGISDTNQIFGLSETEPGSFLYYAPFDGIL
GLAYPSISASGATPVFDNLWDQGLVSQDLFSVYLSNDDSGSVVLLGGIDSSYYTGLSNW
VPVSVEGYWQITLDSITMDGETIACSGGCQAIVDTGTSLLTGPTSAIANIQSDIGASENS
DGEMVISCSSIDSLPDIVFTINGVQYPLSPSAYILQDDDSCTSGFEGMDVPTSSGELWIL
GDVFIRQYYTVFDRANNKVGLAPVA
>P0C0Y4.2 Allergen Probable NADP-dependent mannitol dehydrogenase (MtDH) (Mannitol 2-dehydrogenase
[NADP+]
MPISVPQATELKDLSLKGKVVIVTGASGPTGIGTEAARGCAEY GADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFRERKTGSLVITSSMSGHIANFPQEASYNVAKAG
CIHLAKSLANWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMIPMGRDAKATELKGA
YVYFASDASSYCTGSDLLIDGGYCVR
>ABL09307.1 Putative allergen Aca s 13 [Acarus siro]
MVQINGSYKLEKSDNFDAFLKELGLNFVTRNLAKSATPTVEVSVNGDSYTIKTASTLKNT
EISFKLGEEFEEARADGKTVKTVVNKESDTKVFVQVQGDKEVTIVREFSDEGLT VTATVN

GVTSVRFYKRQ

>ABL09312.1 Putative allergen Aca s 4 [Acarus siro]

MAHLLLA VVAITLALSQSVFGGSPYSNPHFTGSRSVITHLMQWKFDIAAECERFLGPKG
YGGIQLSPVNEHAVLGNRPWYELYQPVGYKIQSRSGNEEQFKGMVQRCNKVGVRIYVDIV
MNHMSGAQEGHGNCWFKLQWHHDVSRCSLLVPNDFHGRESCHTDNMDIKNYDNPEEARNC
RLSGLRDLKQSSEYVRQKQADFLNHLIDLGVAGSRSDASKHMWPGDLEAIYGKLHNLNTA
YFPANSRPFYIHEVIYYGGDGIKSSDYTKLGRAIEFHFYRDIANVRRHNQLKTVKNFGQ
PWGMVPSDDALVMVDSHDLQRFHTGQVGVNINIFYESRLLKVATAFMLAWPYGVPRVMSSY
HWDQKIEDGKDKNDWIGPPSDGSGNILSVTPQPDDTCNKEWICEHRWRQIYNMVHFRNVA
GNEAVSHWWDNGDYQIAFGRGSKAFIAINLQDGQGLNRKLATGLPQGTYCDLVTGNLAGG
KCTGGT VTV DGS GNADINIAKTAEDPFVAIHVEAKLH

>ABL77410.1 Allergen Ani s 7; unknown [Anisakis simplex]

AKYGSQFCKNLLANCLSSGTATLPMQSPWQIPPVVSSCITSGMAKGT DHNKKDVMATCIQ
RYGADFCKNMVGS CAALTDVTLTSYGIGSVLPQVIVDCMTSEMSSPSIMWQCVQKYGTEF
CKLLQDCSASTGASLSPQAPWLIPSVIAECMAKGMVNGGRQADDTMAICIQKYGIKFCN
IIGAACSVLTQVPFFPQLPGTVQQLPSELRACVRSETQKPNVMTKCVEKYGTEFCSSLLQ
SCSASTGAILPLREPWKIPHIADCMYAGMNPESKEDRGGIMSKCIRRYGFDFCKKMLES
CSALTSVQHDSRNTNYASLPQVLKDCMASEMDSPSVMFECVQRYGTPFCKG LLETCTEKT
RASLSPQAPWLIPTAIAQCMRQGMNQGDEKKTLM SLCVRRYGADYCNLAAACSVLTNLP
FFPQTPPSEQNLPPMMHKCLKSEMENPGIMSTCVQRYGTQFCKNLLNSCTASTGMHLPYD
APWKIPEPIAACMAQGMNGGDHKKEDAMARCIRKYGVTYCNNMLASCSVLTNVNYDPSG
GQMPGILSECVTAETDEPSAMCQCVCQKYGTEFCKKRLASCIAS TGMNLPATTPWKLPPP
ARCMQHGS PNDNRGQGQGSNDVMSQCIARYGA EFCQRLARFCYAMNSLQYPGETFDPQQQ
TPTQVARCMKSEMDSPSVMWHCVQKYGQEFCKNLAATCSTETNTPLPQQDPWRLPQPIIA
CMLGKMNNPNPTSKPQSVMSQCTARYGDDFCLSLGKACAELNNVPSSMISLSAQQLPQPV
SSCMKAEMNNPSALWQCIQQYGIEFCKKLRDACSAMTGASLSTTPWILPQPVSNCMRNE
MNNPSAMWLCIQKYGIEFCNRLASACAMIKKVTMPTVTINLPEIIASCVASENSQAMCYA
RKGPEQCKTEENICRNPNNPPGSPLTIPETECMKSQVAMATCQKKFGSECV ALQQECVAG
TGAPPVTIGARGAFMLATALRSCIFNGGVIGSCVLYHPPSQCDQWVQQCATALQTSAGVT
VAGGYRQLSPPMAVCVASQDLMTRCMTRLGQGTCQQA VKNCKRRFNT PSSRLPGRLWSLS
SELINCLYRPVNRASN

>ABL84749.1 Allergen Der f 1 allergen [Dermatophagoides farinae]

MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEVEARKNFLES LKYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPEL DLRLSLRT
ATPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREAL TQHTAIAVI
IGIKDLRAFQHYDGRTHIQHDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYV VIM

>ABL84750.1 Allergen Der f 1 allergen [Dermatophagoides farinae]

MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEVEARKNFLES LKYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPEL DLRLSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREAL TQHTAIAVI
IGIKDLRAFQHYDGRTHIQHDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYV VIM

>ABL84751.1 Allergen Der f 1 allergen [Dermatophagoides farinae]

MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEVEARKNFLES LKYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPEL DLRLSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREAL TQHTAIAVI
IGIKDLRAFQHYDGRTHIRHDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYV VIM

>ABL89183.1 Putative allergen tropomyosin [Portunus sanguinolentus]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA

QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTQTFSELSGY

>ABM53030.1 Putative profilin [*Caryota mitis*]

MSWQAYVDHMLMCEIDGQRLAAAAILGHDGSVWAQSETFPQVKPEEISGIMNDFAEFGNL
APTGLYLGN TKYMVIQGEPGA VIRGKKGSGGVTIKKTNMALIIGIYDEPMTPGQCNMIE
RLGDYLIDQGF

>ABM53751.1 Putative mite allergen Tyr p 13 [*Tyrophagus putrescentiae*]

MTIEGKYKLEKSENFDAFLDKLGVGFMVKTAAKTLKPTLEVEVAGDTYTLRSLSTFKNTE
IKFKLGEFEEDRADGKKVKT VVNKEGDNKLVQTQFGDKEVKIREFNGDDVVVTASVDG
VTSVRSYKRI

>BAF43534.1 Allergen Ani s 5; SXP/RAL-2 family protein [*Anisakis simplex*]

MKTLIVAALFCTIGMALADDTPPPPFLAGAPQDVVKAFFELLKKDETCTDPEIEKDLDA
WVDTLGGDYKAKFETFKKEMKAKEAEALAKAHEEA VAKMTPEAKKADAELSKIAEDDSLNG
IQKAQKIQAIYKTL PQSVKDELEKGIGPAVPQ

>ABM60783.1 Allergen Pen c 32; pectate lyase [*Penicillium citrinum*]

VGDVATGYASENGGTTGGSGGTTTTVSSYAAFTEAVSGDDAKVVFVSGKISKTADQARVG
SNTSIIGKDSNAILSGFVGVVKEASNVIIRNLGVEKVLADNGDAIGIQKSNVWVDHCDV
SSDRDHDKDYDGLIDITHAADYVTVSNTSIHDHWKACLIGHSDSNGDEDKGHLHVTLNN
NYWYNINSRGPFRFGTGHVYNSYLDMSDGINTRQGAQHLVESNTFSGSKPLYSTDDG
YAVANDNDFGDGENNAEKGLTSPVSYDLVSGGKVKDAVVGTAGQTLTF

>P80740.2 Putative Superoxide dismutase [Cu-Zn]

MVKAVTVLNSSEPHGIVYFAQEGDGPTTV

>P82977.2 Putative RecName: Full=Subtilisin-chymotrypsin inhibitor WSCI; Flags: Precursor [*Triticum aestivum*]

MSSVVKKPLGGNTDTGDHNNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKDIAQVPRVG

>Q45W86 Allergen Ara h 11; oleosin [*Arachis hypogaea*]

MAEALYYGGRQRQDQPRSTQLVKATTAVVAGGSLILAGLVLAATVIGLTTITPLFVIFS
PVLVPAVITVALLGLGLASGGFGVAITVLTWYRYVTGKHPPGANQLD TARHKLMSKA
REIKDYGQQQTSGAQAS

>BAF45320.1 Allergen allergen Cry j 2 [*Cryptomeria japonica*]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRRVEHSRHDAINIFN
VEKYG

>ABN03965.1 Allergen beta-1,3-glucanase [*Hevea brasiliensis*]

MAISSSTSGTSSSLPSRTTVMLLLIFFFTASLGITDAQVGV CYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYI AVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPKRKYNLNFGAEKNWDIS
TEHDATILFLKSDM

>ABN03966.1 Allergen beta-1,3-glucanase [*Hevea brasiliensis*]

MAISSSTSGTSSSLPSRTTVMLLLIFFFTASV GITDAQVGV CYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYI AVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVRNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKRGT PKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>ABN09653.1 Allergen beta-1,3-glucanase [*Hevea brasiliensis*]

MAISSSTSGTSSSLPSRTTVMLLLIFFFTASIGITDAQVGV CYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYI AVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGNSY

PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLNTNIYPYFTYA YNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSSLEVVVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFATFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>ABN09654.1 Allergen beta-1,3-glucanase [*Hevea brasiliensis*]

MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVVGYGMQGNLPSVSEVIALYK
KSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSXSPLLANIYPYFTYA YNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSSLEVVVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>ABN09655.1 Allergen beta-1,3-glucanase [*Hevea brasiliensis*]

MAISSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVVGYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFSSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILTLVGNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYA YNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSSLEVVVSESGWPSAGAFATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>ABN14313.1 Allergen Der f 2 allergen [*Dermatophagoides farinae*]

MISKILCLSLVA AVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHGKIRD

>BAF46896.1 Putative tropomyosin [*Balanus rostratus*]

MDAIKKKMAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLQKKYTNLENEFDQV
NEQYNEGVTKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTPVKLDEATFKLEDATKTA
DESERGRKVLESRSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLAEKEKYKAISDELDQTFELAGM

>P08819.2 Putative RecName: Full=Serine carboxypeptidase 2; AltName: Full=Serine carboxypeptidase II; AltName:
Full=Carboxypeptidase D; AltName: Full=CPDW-II; Short=CP-WII; Contains: RecName: Full=Serine
carboxypeptidase 2 chain A; AltName: Full=Serine carboxypeptidase II c [*Triticum aestivum*]

VEPSGHAADRIARLPQPAVDFDMYSGYITVDEGAGRSLFYLLQEAPEDAQPAPLVLWLN
GGPGCSSVA YGASEELGAFRVKPRGAGLVLNEYRWKVANVFLDSPAGVGFSTNTSSD
IYTSGDNRTAHDSYAFLAKWFERFPHYKYRDFYIAGESYAGHYVPELSQLVHRSKNPVIN
LKGFMVGNGLIDDYHDYVGTFFFWWNHGIVSDDTYRRLKEACLHDSFIHSPACDAATDV
ATAEQGNIDMYSLYTPVCNITSSSSSSSSLSQQRSSRGRYPWLTGSYDPCTERYSTAYY
NRRDVQMALHANVTGAMNYTWATCSDTINTHWHADAPRSMLPIYRELIAAGLRIWVFGDT
DAVVPLTATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRP
RQALVLFQYFLQGKPMGQTKNAT

>BAF47263.1 Putative tropomyosin fast isoform [*Marsupenaeus japonicus*]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>BAF47265.1 Putative tropomyosin fast isoform [*Paralithodes camtschaticus*]

MDAIKKKMAMKLEKDNAMDKADTLEQQNKEANNRAEKAEVEVHGLQKRMQQLLENDLDQV
QESLLKANTQLEDKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>BAF47266.1 Putative tropomyosin slow-tonic isoform [*Paralithodes camtschaticus*]

MDAIKKKMAMKLEKDNAMDKADTLEQQNKEANNRAEKTEEEIRLTQKKMQQVENELDVA
QEQLSLANTKLEEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKNIADEMDQAFSELSGF

>BAF47268.1 Putative tropomyosin slow-twitch isoform [*Erimacrus isenbeckii*]

MDAIKKKMAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>BAF47269.1 Putative tropomyosin slow-tonic isoform [*Erimacrus isenbeckii*]

MDAIKKKMAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKNIADEMDQAFSELSGF

>AAM09530.3 Allergen Equ c 4; latherin [*Equus caballus*]

MLKVSCLFVLLCGLLVPSSAQIPPEVSSQITDALTOGLLDGNFLLNAINLEGLLNTI
LDQVTGLLNILVGPLLGPDAEIKLQDTRLLQLSLEFSPDSKGIDIWIPLELSVYLKLLI
LEPLTLYVRTDIRVQLRLESDDEDGKYRLAFGHCSLLPRAIELQSGNPLSLPVNAVLTIE
NALGNFITEDLGAGLCPTLNSLVSNLDLQLVNNLINLILDRANVDLSV

>ABO36677.1 Allergen Pis v 3; 7S globulin/ vicilin-like protein [*Pistacia vera*]

KTDPELKQCKHQCKVQRQYDEEQKEQCAKGCEKYKKEKKGREEEEEEEWGSGRGRGDE
FSTHEPGEKRLSQCМКQСERQDGGQKQLCRFRCQEKYKKERREHSYSRDEEEEEEGDEE
QEEEDENPYVFEDEHFTTRVKTEQGKVVVLPKFTKRKLLRGLKRYRLAFLVANPQAFVV
PNHMDADSIFFVSWGRGTITKIRENKRESMNVKQGDIIIRAGTPFYIVNTDENEKLYIV
KLLQPVNLPGHYEVFHGPGGENPESFYRAFSREVLEAALKTPRDKLEKLFQDEGAIVK
ASKEQIRAMSRREGGPSIWPFTGKSTGTFNLFKKDPSQSNNYGQLFESEFKDYPPQLQELD
IMVSYVNITKGGMSGPFYNSRATKIAIVVSGEGRLEIACPHLSSSKNSGQEKSGPSYKLL
SSSIRTDVVFVVPAGHPFVTVASGNQNLEILCFEVNAEGNIRYTLAGKKNIEVMEKEAK
ELAFKTKGEEVDKVFQKQDEEFFQGPQWRQHQQGRADE

>CAM54066.1 Allergen Asp f 34; PhiA cell wall protein [*Aspergillus fumigatus*]

MQIKSFVLAASAAATASAAACQAPTNYFGIVAIHSGSAVQYQPFSAAKSSIFAGLNSQN
ASCDRPDEKSATFYIQDGSLYLYAASATPQEIFVDRSGMGQKIGYTTGAQPAPRNSERQ
GWAIDSQNHQLQFQKDLIACPN SIDGAWSIWADAGVANPAGNTDCVGIAARVEDVTNPNS
CVYTQ

>ABO71783.1 Putative tropomyosin [*Eriocheir sinensis*]

MDAIKKKMAMKLEKDNAMDRAHTLEQQNKEANNRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>BAF51970.1 Allergen thaumatin-like protein [*Cryptomeria japonica*]

MAKVSDLALLLVAGMAISLYIQETGAVKFDIKNQCGYTVWAAGLPGGGQQLTQGGQTWTVN
LAAGTQSARFWGRTGCSFDASGKGTCQTGDCGGQLSCTVSGAVPATLAEYTSQSDQDYD
SLVDGFNIPLSINPTNAQCTAPACKADVNAVCPAELKVDGGCKSACAAAFQTDQYCCTGT
ANSPATNYSMIFKNQCPQAYSYPKDDTATFACPSGTDYSIVFCP

>ABO84963.1 Putative group 21 allergen [*Dermatophagoides farinae*]

MKFIIFCAIVMAVSVSGFIVDVTEDKWRNAFDRMLMEEFGEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETA VSTIEILVK
DLAELAKKVKAVKSDD

>ABO84964.1 Putative group 21 allergen [*Dermatophagoides farinae*]

MKFIIFCAIVMAVSVSGFIVDVTEDKWRNAFDRMLMEEFEKMDQIEHGLLMLSEQYKE

LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84966.1 Putative group 21 allergen [Dermatophagoides farinae]

MKFIIFCAIVMAVS VSGFIVD VDTEDKWRNAFDRMLMEEFEEKIDQIEHGLLMLSEQYKE
SEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84967.1 Putative group 21 allergen [Dermatophagoides farinae]

MKFIIFCAIVMAVS VSGFIVD VDTEDKWRNAFDRMLMEEFEEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84968.1 Putative group 21 allergen [Dermatophagoides farinae]

MKFIIFCAIVMAVS VSGFIVD VDTEDKWRNAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVPTIEILVK
DLAELAKKVKAVKSDD

>ABO84969.1 Putative group 21 allergen [Dermatophagoides farinae]

MKFIIFCAIVMAVS VSGFIVD VDTEDKWRGAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO93594.1 Putative BW10KD allergen protein [Fagopyrum tataricum]

MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTMDMMDADSMRGQEC
RSEESCMRGCCMAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMQLPNKCGMGH
MRCHMGMGTRVYE

>ABP04043.1 Allergen Bla g 4 allergen [Blattella germanica]

AVLALCASDTLAMEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDA
LYSLYTDSKGNKTAIRGRTKFEKNFTIDYNDKKGKAFSAPYSVLATDYDNYAIVEGCPA
AANGHVIIYVQLRLTWRRFHPKLGDKEMIQHYTLDQVNQHKKAI EEDLKHFNLYEDLHST
CH

>ABP04044.1 Allergen Bla g 5 variant allergen [Blattella germanica]

YKLTYPVKALGEPFRLLSYGEKDFEDYRFQEGDWPCLKPSMPFGKTPVLEIDGKQTHQ
SVAISRVLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQPNL KALRE
KVLGLPAIKAWVAKRPPTDL

>ABP35603.1 Allergen Bla g 2 allergen variant [Blattella germanica]

MIGLKIVTVLFAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCN
VVVASQECVGGACVCPNLQKYEKLKPRYISDGNVQVKFFDTGSAVGRGIEDSLTIFNLTT
SQQDIVLADELSQEV CILSADGVV GIIAAPGCPNALKGKTVLENFVEENLIAPVFSIHAR
FQDGEHFGEIIFGGSDWKYVDGEFTYVPLVGD DSWKFRLDGVKIGDTTVAPAGTQAIIDT
SKAIIVGPKAYVNPINEAIGCVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSGFQPCGHSDHFFIGDFFVDHYYSEFNWENKAMGFGRSVESV

>ABP58627.1 Putative pollen allergen Ole e 5 [Olea europaea]

MVKA VTVLNSSEGVTGT VYFTQEGDGPTT VTGNLSGLKPLGHGFVHALGD TTNCGMSTG
PHFNVPVGKEHGT PGDENRHAGDLGNITVGEDGTA AINIVDKQIPLTGPHSIIGRA VVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABP58632.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHIQGGQIYCDTCRSR FITESEFIPGASVRLQCREKENG DITFTEIGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKK
EALPKCAQVYNKLGMYPPNM

>ABP58633.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHIQGGQVYCDTCRAGFITELSEFIPGASVRLQCREKKN G DITFTEVGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLDMYPPNM

>ABP58635.1 Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHIQGGQVYCDTCRARFITESEFIPGASVRLQCRDGENGSITFTEVGSTRAEGLY
SMLIERDHKDEFCEITLISSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTVNPLGFFKK

EALPKCPQVFNKLGMYPPDM

>ABP58636.1 Allergen major pollen allergen Ole e 1 [*Olea europaea*]

PPVSQFHIQGQVYCDTCRAGFITELSEFIPGASVRLQCREKKNGDITFTEVGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLGMYPPNM

>ABP58637.1 Allergen major pollen allergen Ole e 1 [*Olea europaea*]

PPVSQFHVQGQIYCDTCRAGFIAELSEFILGAGVRLQCRDSKKNITFTEVGYTRAEGLY
SMLIERDHKNEFCEVNSLSSSRKDCDEIPIEGWVRPSLRFLNTVNGTTCTIKPLGFFKN
KALPKCPQVFNKLGMYPPDL

>P80273.2 Putative Nonspecific lipid-transfer protein P3 (LTP P3) [*Vitis sp.*]

LSCGDVATQMASCINYLRGAGPLPAACCNVGNLKNNSATTTQDRRTACKCLISASKTISG
VNFGLAAGLPAKCGVSIPYKISPSTNCDQVN

>ABP97433.1 Allergen Ara h 8 allergen isoform [*Arachis hypogaea*]

MGVHTFEEESTSPVPPAKLFKATVVDGDELTPKLIPAIQSIIEIVEGNNGGPGTVKKVTAVE
DGKTSYVLHKIDAIDEATYTYDYTISGGTGFQEILEKVSFKTKLEAADGGSKIKVSVTFH
TKGDAPLPDEVHQDVKQKSQGIFKAIEGYVLSN

>ABQ10638.1 Allergen Fag e 3; 7S globulin/vicilin-like protein partial [*Fagopyrum esculentum*]

GDYPFEPRRQIEHCRQRCQDRSQGFRETRELETCEKRAGFDDEPSKEVDSYTTDTRSRD
PQQEFRQCRHRCQTQEEGGRQQRKCEQRCEKQLERQQGYDDEEFGQGRSNIGAPVRNYDD
CTEMCGGSPLCALFCE

>ABQ42566.1 Allergen thaumatin-like protein [*Actinidia deliciosa*]

ATFNIINNCPTVWAAA VPGGGKRLDRGQNWIINPSAGTKGARVWPRTGCNFDGAGRGKC
QTGDCNGLLQCQAFGQPPNTLAEYALNQFNNDFFDISLVDGFNVAMEFSPTS GGCTRGI
KCTADINGQCPNELRAPGGCNPCTVFKTDQFCCNSGNCGLTNFSKFFKDRCPDAYSYPK
DDQTSTFTCPAGTNYKVVFPC

>CAM56785.1 Allergen Gad m 1; parvalbumin beta [*Gadus morhua*]

MAFAGILADADCAA AVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLFLQVFKAGARALDAETKAFKAGDSGDGAIGVEEWAVLVKA

>CAM56786.1 Allergen Gad m 1; parvalbumin beta [*Gadus morhua*]

MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSSADIKKVFEIIDQDKSDFVE
EDELKLFLQNFSA GARALSDAETKVFLKAGDSGDGKIGVDEFGAMIKA

>ABQ59329.1 Allergen Cla c 9; vacuolar serine protease [*Cladosporium cladosporioides*]

DQEVHVLKSESEVEKNAPWGLARISHRDSLSFGTFNKLYLTEDGGEGVDVYVVDGTGTVND
HVDFEGRASWGKTIPQGDAD EDGNHGHTHCSGTVAGKKYGVAKKAHVKA VKVLRNSNGSGS
MSDVVKGVEYAAESHLEQVSI AKKGKRKGFGSTANMSLGGGKSPILDKAVNA AVDAGIH
FAVAAGNDNADSCNYS PAAENA VTVGASTLSDERAYFSNYGKCNDIFAPGLNIQSTWIG
SKYAVNTISGTSMASPHVAGLLAYLLSLQPAKDSAF AVADISP KKLKANLISIATVGALT
DVPSNTANILAWNGGGESNYS AIVEKGGYKAAVRPTMLEEIESEAKVASKKVYSEGDELA
KKVAELTEKIEDLISGDLKDMFRDLKRE

>ABQ96644.1 Putative tropomyosin [*Tyrophagus putrescentiae*]

MEAIKKKMQAMKLEKDNAIDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLGNDLDQV
QESLLKANIQLVEKDRALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSL SDEKRMDALENLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSEL TGY

>CAK50834.1 Putative art v 2 allergen [*Artemisia vulgaris*]

MGHLGNFWLVL AISFAILHLSHAHETYGEPGNT PDDYVHAHNCIRRVLGMKPLCWDEIGK
VAQAWAET RTPDCSLIHS DR CGENMAQGAINGSM AVQLWLDERLDYDYNENKCIKMCGHY
TQIVWANSERVGCGRALCSNGWAYIIVCNYDPPGNVVGQKPY

>ABR21771.1 Putative conglutin beta [*Lupinus angustifolius*]

EERQEEERERRREPCREREQEQPQHGRREEEEEEEEWQPRRLR PQSRKEEREQEQGSSS
SSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRQRNPNYHFSSERFQTRYRNRNGQIRV
LERFDQRTNRL ENLQNYRIVEFQSNPNTLILPKHSDADYILVVLN GRATITIVNPDKRQA
YNLEYGDALRLPAGTTSYILNPDDNQNL RVVKLAI PINNPSNFYDFYPSSTKDQQS YFSG

FSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRGQEQSYQDEGVIVRVSKEQIQELRK
HAQSSSRKKGKPSSESGPFNLRSNESIYSNKFNGFYEITPERNPQVQDLDISLTFTEINEGA
LLPHYNSKAIFIVVDEGEGNYELVGIRDQQRQQDEQEVEVEVRRYSARLSEGDFVI
PAGYPISVNASSNLRLLGFGINANENQRNFLAGSEDNVISQLDREVKELTFPGSAQDVER
LIKNOQQSYFANAQPQQKQQREKEGRRGRSSLISSILSTLY

>ABR21772.1 Putative conglutin beta [*Lupinus angustifolius*]

MAKMRVRLPMLILLGVVFLLAASIGIAYGEKDFTKNPPKEREEEEHEPRQQPRPRQQEE
QEREHRREEKHGDEPSRGRSQSEESQEEEHERREREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQQSSSGSQSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYPSTTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENKQR
RGQEQSHQDEGVIVRVSCKKIQELRKHQAQSSSGEGKPSSESGPFNLRSNKPIYSNKFNGFY
EITPDINPQFQDLNISLTFTEINELWLTKEKEIMN

>ABR29644.1 Allergen Pis v 4; Mn superoxide dismutase [*Pistacia vera*]

MALLSYVTRKTLTESLRLGLKSHVRGLQTFPLPDLPEYGALEPAISSEIMQLHHQKHHQ
TYITNYNKALEQLDQAINKGDAVAVKLQSAIKFNGGGHINHSIFWKNLTPVSEGGGEP
HGSLGWAIDTNFGSMELIQRMNAEGAALQSGVWVWGLDKESKLVVETTANQDPLVTK
GPSLVPLLGIDVWEHAYYLQYKNVRPDYLNKNIWKVINWKYAGELYQKECP

>ABS12233.1 Putative tropomyosin [*Scylla serrata*]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAEEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSEGY

>ABS12234.1 Putative tropomyosin [*Portunus trituberculatus*]

MDAIKKKMAMKLEKDNAMDRANTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAEEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSEGY

>ABS29033.1 Putative Alt a 1 major allergen [*Stemphylium* sp. CID1012]

LAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNLSFNKATNKGTLDFTC
SAQADKLEDDKFYSCGENSFMSFAFQSDRNGLLFRQDVSDEITYVATATLPNYCHAGGNG
PKDFVCQGVSDAYFTLV

>ABS58503.1 Putative serine proteinase inhibitor-like allergen [*Triticum aestivum*]

MSPVVKKPEGGNTDTGDHNNQKTEWPELVGKSVEEAKKVIMQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKIAQVPRVG

>BAF75681.1 Allergen Ani s 8; SXP/RAL-2 family protein [*Anisakis simplex*]

MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75704.1 Putative SXP/RAL-2 family protein 2 isoform 2 [*Anisakis simplex*]

MRVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75705.1 Putative SXP/RAL-2 family protein 2 isoform 3 [*Anisakis simplex*]

MKVLFFVAAVVADSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQATEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75706.1 Putative SXP/RAL-2 family protein 2 isoform 4 [*Anisakis simplex*]

MKVLFFVAAVVAVPLAQDQGPPPLPKFLDGADQATKDAFAALAQTFFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75707.1 Putative SXP/RAL-2 family protein 2 isoform 5 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAYAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAEEEEHKKLVAAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75708.1 Putative SXP/RAL-2 family protein 2 isoform 6 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFRDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAEEEEHKKLVAAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75709.1 Putative SXP/RAL-2 family protein 2 isoform 7 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FANDHPAIKDAYEAEKKEVLAAQQAEEEEHKKLVAAALPPDAQKADAELTATADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75710.1 Putative SXP/RAL-2 family protein 2 isoform 8 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNNHPAIKDAYEAEKKEVLAAQQAEEEEHKKLVAAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75711.1 Putative SXP/RAL-2 family protein 2 isoform 9 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAEEEEHKKLVAAALPPDAQKADAESTAIAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>BAF75712.1 Putative SXP/RAL-2 family protein 2 isoform 10 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAEEEEHKKLVAAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELDKLNNQQGQS

>ABU42022.1 Putative 11S globulin [Pistacia vera]
MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFWQNEEQQLCANVAVFRHTIQSRGLLVPSYNNAPELVYVVQSGSIHGA VFPGCP
ETFQEESQSQRSQHSRSERSQQSGEQHQKVRHIREGDIALPAGVAHWIYNNGQSKLVL
VALADVGENSENQLDQYLRKFVLGGSPQEQIQQGGGQSWQSRSRKGQQSNNILSAFDEEI
LAQSLNIDTQLVKKLQREEKQRGIIVRVKEDLQVLSRQRQEKEYSDNGLEETFCMTLKL
NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNRGMQIVSENGESVFDEEIREGQLVVVPQNFVVKRASSDGFVWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSSQRQRN

>ABU49605.1 Allergen Der f 1 allergen [Dermatophagoides farinae]
MKFVLAIVSLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEV ARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVI
IGIKDLRAFQHYDGRTHIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVIM

>ABU53681.1 Putative tropomyosin [Sinonovacula constricta]
MDAIKKKMAMKIEKENALDKSEQLENKLKEIEDVKVIEEDLTSLQKKYTNQENEYDKV
NEQFNESVTKLEASEKRVTECEDEIKGFTRRIQLLEDELERTQQKAEEAVLKLEEASKAA
DESERGRKVLESRSIADDDRIDKLEKDVKDSKYLAEEADRKYDEAARKLAITEVDLERAE
TRLEAAESKITELSEELQVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLQEKEYKQISDELDTQFAELAGM

>BAF76430.1 Allergen tropomyosin [Euphausia superba]
MDAIKKKMAMKMEKDSAMDRSDALEAQNKETNAKADKADDEVHNLQKRLQTLNLDLQV
SEALLKANTQLVEKDKALQNAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSMLEERMDALESQKEARLLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKGITDELDTQFNELSGY

>BAF76431.1 Allergen tropomyosin [Euphausia pacifica]
MDAIKKKMAMKMEKDSAMDRADALEAQNKETNARAEEKADDEVHNLQKRLQTLNLDLQV

SEALLKANTQLVEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLLDEERMDALENQLKEARLLAEEADRKYDEVARKLAMVEADLERAE
ERA EAGENKIVLEEELRVVGNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKGITDELDTFNELSGY

>ABU95411.1 Putative Sin a 3 allergen [*Sinapis alba*]

ALSCGTVNSNLAACIGYLTQNAPLPGCCTGVTNLNNMARTTPDRQQACRCLVGAANSFP
SLNAARAAALPKACGVNIPYKISKSTNCNSVR

>ABU95412.1 Putative Sin a 4 allergen [*Sinapis alba*]

MSWQTYVDDHLMCDVEGNRLTAAAILGQDGSVWAQSANFPQLKPEEIKGINNDFAEPTL
APTGLFIGGTYMVIQGEPAVIRGKKGAGGVTIKKTQAFVFGIYEPMTPGQCNMVVE
RLGDYLIEQGL

>ABU97466.1 Allergen group 10 allergen Blo t 10 [*Blomia tropicalis*]

MEAIKKKMAMKLEKDNAIDRAEIAEQSRDANLRAEKSEEEVRAALQKKIQIENELDQV
QESLTQANTKLEEKEKSLQTAEGDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMVKMLEHRISITDEERMDGLESQLEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGETKIVLEEELRVVGNLKSLEVSEEKAQREEAYEQQIRMMTGKLKEAEARAE
FAERSVRKLQKEVDRLLEDELVHEKEKYKSIDELDTFAELTGY

>ABU97470.1 Allergen Der f 20; arginine kinase [*Dermatophagoides farinae*]

MVDQATLSKLEAGFQKLQNAQDCHSLLKKYLTRDVLQKTKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFAALFDPIIDDYHKGFKPTDKHPQTDGNIHFVNVDPKNEYV
ISTRVRCGRSLKGYFPNPLTEAQYKEMETKVKGQLATFEGELKGTYYPLLGMDKATQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EVFGRLVKA VKHIEQKIPFSRDDRLGYLTFCTNLGTTIRASVHIKLPKLAADRKKLEEV
AARYNLQVRGTAGEHTESVGGIYDISNKRMMGLTEYQAVKEMQDGIILIKMEKSL

>ABU97472.1 Putative profilin [*Glycine max*]

MSWQAYVDDHLLCEIEGNHLTHAAIIGQDGSVWAQSTNFPQFKPEEITAINNDFNEPGL
APTGLYIGGTYMVIQGEPAVIRGKKGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RLGDYLIDQGL

>ABU97479.1 Putative tropomyosin [*Tyrophagus putrescentiae*]

MEAIKKKMAMKLEKDNAIDRAEIAEQKARDANLKSEKTEEEVRAALQKKIQIENELDQV
QENLTQATTKLEEKEKALQTAEDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMVKMLEHRISIPDEERMDGLESQLEARLMAEDADRKYDEVARKLGMVEAHLERAE
ERAQLGIXIAKLERTARLRHT

>ABU97480.1 Putative allergen Tyr p 13 [*Tyrophagus putrescentiae*]

MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGDSTYTIKTSSTLKNS
EIKFKLGEEFEEDRADGKKVQTSVTKEGDNKL VQVQKGDKPVTIVREFSEEGLTVTATVN
GATSVRFYKRQ

>ABV55106.1 Putative Ani s 9 allergen precursor [*Anisakis simplex*]

MKLCILAVAVFVVA VSAQGPPLPPFVANAPPAVQAEFRQLANGAPDKTEAEIEAQIEQW
VASKGGAVQAEFNKFKQMLEQKARAEAAHQASLTRLSPAAKAADARLSAIASNRALKVG
EKQRQLAAAFQALDPAVKAEQKEMQG

>ABV66255.1 Allergen Der p 1 allergen [*Dermatophagoides pteronyssinus*]

TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQ
ELVDCASQHNCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRPNQAQRFGISNYCQI
YPQNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSN
AQGVVYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>1A9V_A Allergen Chain A, Tertiary Structure Of The Major House Dust Mite Allergen Der P 2, Nmr, 10 Structures

[*Dermatophagoides pteronyssinus*]

SQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>1CQA_A Allergen Bet v 2; profilin [*Betula pendula*]

MSWQTYVDEHLMCDIDGQGEELAASAIVGHGDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEPPVTPGQCNMV

VERLGDYLLIDQGL

>ABW17159.1 Putative Ara h 7 allergen precursor [*Arachis hypogaea*]

MVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEKEQEQEYPIYQGRGSRGQRPGESEDEQEQRCCNELNRFQNNQRRCMCQALQQIL
QNQSFQFQQDRSQLHQMERELRNLPQNCGFRSPSRCDLSSRTPY

>ABW23574.1 Allergen Vig r 2; 8S globulin (vicilin-like protein) [*Vigna radiata*]

MVRARIPLLLLLLILFLASLSVSFGIVHRENIDGAEVSVSRGKNNPFYFNSDRWFHTLFR
NQFGHLRVLQRFDQRSKQMQLNENYRVVELMSKPNTLLPHHADADFLLVVLNGRAVLT
VNPDGRDSNILEQGHAKIPAGTFFLVNPDNENLRIIKLAVPVNPHRFQDFFLSSTE
AQQSYLQGFSKNILEASFSDIKEISRVLFGGEGQQQQQGGQESQQEGVIVELKREQUIREL
TKHAKSSSKSLSSDQPFNLRNQKPIYSNKLGRWFEITPEKNPQLRDLDMFIRSVDMKE
GSLLLPHYNSKAIIVILVINEGKANIELVGQREQQKQEEQEESEWEVQRYRAELSEDDVFI
IPATYPVAINATSNLNFFAFGINAENNQRNFLAGEKDNVISEIPTEVLDVTFPASGEKVK
KLIKKQSESQFVDAQPEQQEREARKGGKGPVY

>ABW34946.1 Allergen hevein [*Hevea brasiliensis*]

MNIFIVLLCLTGVAIAEQCGRQAGGKLCPNLCCSQWGWCGSTDEYCPDHNCQSNCKD
SGEGVGGGSASNVLATYHLYNSQDHGWDLNAASAYCSTWDANKPYSWRSKYGWTAFCGPV
GAHGQPCGKCLSVTNTGTGAKTTVRIVDQCSNGGLDLVDVNVFRQLD TDGKGYERGH LTV
NYQFVDCGDSFNPLFSVMKSSVIN

>P15476.2 Allergen Sola t 1; patatin [*Solanum tuberosum*]

MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAILLEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
FGPRYDGKYLQLVLEKLGTRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSIAAAPIYFPPHVFHTSNGATYEFNLVDGGVATVGDPAALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQLTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALTGTTTEMDDASEANMELLVQVGETLLKPKVSKDSPE
TYEEALKRFAKLLSNRKKLRANKASY

>ABW86978.1 Allergen Car i 4; 11S globulin/ legumin-like protein [*Carya illinoensis*]

MAKPILLSIYLCLIIVALFNGCLAQSGGRQQHKFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQLQCAGVAVVRRRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGPCPETFEES
QRQSQQGQRREFQQDRHQKIRHFREGDIIAFPAGVAHWCYNDGSSPVVAIFLLDTHNNAN
QLDQNP RN FYLAGNP DDEF RPQGGQEQEYEQHRRQQHQQRGEHGEQQRD LGNNVFSGFDA
EFLADAFNVD TETARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SESERRQSRGGRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPI LRW
LQLSAER GALYS DALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARDEGF EWVSFKTNENAMVSPLAGR TSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSR SRSSRSERRAEV

>ABW86979.1 Putative 11S legumin protein [*Carya illinoensis*]

MAKPILLSIYLCLIIVALFNGCLAQSGGRQQHKFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQLQCAGVAVVRRRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGPCPETFEES
QRQSQQGQRREFQQDRHQKIRHFREGDIIAFPAGVAHWCYNDGSSPVVAIFLLDTHNNAN
QLDQNP RN FYLAGNP DDEF RPQGGQEQEYEQHRRQQHQQRGEHGEQQRD LGNNVFSGFDA
EFLADAFNVD TETARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SGSERRQSRGGRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPI LRW
LQLSAER GALYS DALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARNEGFEWVSFKTNENAMVSPLAGR TSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSR SRSSRSERRAEV

>1B6F_A Allergen Chain A, Birch Pollen Allergen Bet V 1 [*Betula pendula*]

GVFN YETETTSVIP AARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKELGETLLRAVESYLLAHS DAYN

>1H2O_A Allergen Chain A, Solution Structure Of The Major Cherry Allergen Pru Av 1 Mutant E45w [*Prunus avium*]

GVFTYESEFTSEIPPRFLKAFVLDADNLVPKIAPQAIKHSEILWGDGPGTIKKITFGE
GSQYGYVKHKIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIKSTSHY

HTKGNVEIKEEHVKAGKEKASNLFLIETYLKGHDPAYN

>1W2Q_A Allergen Chain A, Allergen Arah6 From Peanut (*Arachis hypogaea*) [*Arachis hypogaea*]
GPMRRERGRQGDSSSCERQVDRVNLKPCSEQHIMQRMGEQEYDSYDIRSTRSSDQQQRC
CDELNEMENTQGCMCEALQQIMENQCDRLQDRQMVQQFKRELMSLPQQCNFRAPQRCDLD
VSGGRCS

>ABW98943.1 Allergen alpha S1 casein [*Bos taurus*]

VSAALARPKHPIKHQGLPQEVNENLLRFFVAPFPEVFGKEKVNELSKDIGSESTEDQAM
EDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSEYLYGYLEQLLRLKKYKVPQLEIVPN
SAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYYVPLGTQYT
DAPSFSDIPNPIGSENSEKTTMPLW

>ABW98945.1 Allergen alpha S1 casein [*Bos taurus*]

FSEVFGKEKVNELSKDIGSESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVP
SERYLYGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYF
ELFRQFYQLDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>ABW98953.1 Allergen alpha S1 casein [*Bos taurus*]

IVPNSVEQKHIQKEDVPSEYLYGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQ
QKEPMIGVNQELAYFYPELFXQFYQPDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSEN
SEKTTMPLW

>2JMH_A Allergen Chain A, Nmr Solution Structure Of Blo T 5, A Major Mite Allergen From *Blomia tropicalis*
[*Blomia tropicalis*]

GSQEHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQLDELNENKSKELQEKIIRE
LDVVCAMIEGAQGALERELKRTDLNILERFNYEEAQTLSKILLKDLKETEQKVVDIQTQ

>ABX26131.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTGTGNLSGLKPLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNIAVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX26132.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVTGTVYFTQEGDGLTTVTGNLSGLKPLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAAINIVDKQIPLTGPHSIIGRAVVVHSDPDDLGRG
CHELSKSTGNAGGRVACGIIGLQG

>ABX26134.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTGTGNLSGLKPLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHEQSKSTGNAGGRVACGIIGLQG

>ABX26138.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTGTGNLSGLKPLHGFHVNALGATTNGCMSTG
PHFDPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX26139.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVFNSSEGVTGTVYFTQEGDGLTTVTGNLSGLKPLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGDAGGRVACGIIGLQG

>ABX26140.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVTCGIIGLQG

>ABX26141.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVAGTVYFTQEGDGPTTGTGNLSGLKPLHGFHAHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX26143.1 Putative allergen Ole e 5 [*Olea europaea*]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTGTGNLSGLKPLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDRQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX26145.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVRLALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX26147.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVNALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54842.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54844.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDATNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54849.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDITNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54855.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAISIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRSGHELKSTGNAGGRVACGIIGLQG

>ABX54859.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVAGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54862.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDFGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54864.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVINSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAANIVDKQIPLTGPHSIIIGRAVVVHSDPDDLGRG
GHELKSTGNAGGRVACGIIGLQG

>ABX54866.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEQGAPGDENRHAGVLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54869.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHVLSKSTGNAGGRVACGIIGLQG

>ABX54876.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQKGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFLPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX54877.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVFNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>ABX56711.1 Allergen Ara h 9; lipid transfer protein (LTP) type 1 [Arachis hypogaea]
MASLKFAFVMLVCMAMVGAPMVNAISCGVNSALAPCIPFLTGGGAPPACCSGVRGLLG

ALRTTADRQAACNCLKAAAGSLRGLNQGNAALPGRCGVSIPYKISTSTNCATIKF

>ABX57814.1 Putative delta class glutathione S-transferase [Blattella germanica]

MTIDFYYLPGSAPCRSVLLAAKAFGVNLNKVTNLMAGEHLTPEFLKMNPNQHTIPTLNDN
GFCLWESRAILSYLADQY GKDDSLYPKDPKKRALVDQRLYFDLGTLYQRFQDYYPIMFA
KASPDAEKMKKLEEA YQFLDKFLEGQKFVAGNSLTIADIATIASVSTAAILGFDITRYPN
VNKWFENAKKVIPGYDELNHS GCLEFRKMWDNLTQK

>ABX75045.1 Allergen Ara h 9; lipid transfer protein (LTP) type 1 [Arachis hypogaea]

LSCGQVNSALAPCITFLTKGGVPSGPCCSGVRGLLGA AKTTADRQAACNCLKAAAGSLHG
LNQGNAALPGRCGVSIPYKISTSTNCATIKF

>BAF95206.1 Allergen tropomyosin [Oratosquilla oratoria]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKA EEEVHNLQKRMQQLENDLDQV
QEQLLKANTQLEEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSL SDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKQLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEYKSITDELDTFSELSGY

>ABY21305.1 Putative pollen allergen Pla o 1 [Platanus orientalis]

MKLSFSLCIFFLISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHSADLQGLGVISA
NLAIQQGSKIQTFIGRILKSKVDPALKKYLND CVGLYADAKSSVQEA IADFKSKDYASAN
VKMSAALDDSVTCEDGFKEKKGIASPVTKENKDYVQLTAISLAITKLLGA

>ABY21306.1 Putative pollen allergen Pla o 2 [Platanus orientalis]

MRGVQSSGGTFNVNDYGA KGSQDISQAVMKAWEAACASPGPSTVLIPTGNYIMGEVLLG
PCKGSKIGFQLDGVVKAPADVSAFKSEGWVFNHVDGLTVSGKGTDFDGGQKAWAANNCD
KDENCNRPPMNIRFNFLKNAVVRDITSMNSKMFHINVLECDNISFQHVTISAPGTSINTD
GIHIGLSRGVTITDTNIATGDDCVSIGPGSQNVTVTKVNCGPGHGISVGLGKYKDEKDV
RGITVTGCTFTGTSGVVRVKTWPDSPPGVATDMAFEDLTMKNVQNPVILDQEYCPYGQCS
LKAPSRVKLSNIKFNNIRGTSSGPDAIV IACSHGFPCSNLEIGEINLALHAAGAPANSTC
TNAKPIFSGKQVPAIKCA

>ABY28115.1 Putative Der f 3 allergen precursor [Dermatophagoides farinae]

MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQS AKKLSIRNNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKT
PTTLDQTNAKPVPLPAQGS DVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGV DSCQGDSSGGPVVDIATKQIVGIVSWGYG CARKGY
GVYTRVGNFVDWIESKRSQ

>ABY53034.1 Allergen Der p 2 allergen [Dermatophagoides pteronyssinus]

MYKILCLSLVA AVARDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEADFEAN
QNRKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

>CAK93713.1 profilin [Malus domestica]

MSWQTYVDDHLMCEIEGNHLSAAAII GHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGE PGVIRGKKGPGGVTVKKSTMALLIGIYDEPMPGQCNMVVE
RLGDYLIEQGL

>CAK93753.1 profilin [Malus domestica]

MSWQAYVDDHLMCDIDGNSLTAAAILGQDGSVWAQSATFP AFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGE PGAVIRGKKGSGGITIKKTSQALLIGIYDEPVP GQCNIVVE
RLGDYLIEQGL

>CAK93757.1 profilin [Malus domestica]

MSWQAYVDDHLMCDIDGNSLTAAAILGQGGSVWAQSATFP AFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGE PGAVIRGKKGSGGITIKKTSQALLIGIYDEPVP GQCNIVVE
RLGDYLIEQGL

>A2VBC4.1 Putative Venom phospholipase A1 precursor (Allergen Poly p 1) [Polybia paulista]

MNFKYSILFICFGTLDRGLIPECPFNEYDILFFVYTRQQRDGIVLTEETLQNYDLFKKST
ISRQVV FIDHGFLSNGNNENFIAMAKALIEKDNFLVISVDWKKGACNAFASTLDYLGYST
AVGNTRHV GKYVADFTKLLVEQYKVSMSNIRLIGHSLGAHTSGFAGKEVQELKLNKYSNI
DGLDPAGPSFDSNDCPERLCETDAEYVQIIHTSNILGVYSKIGTVDFYMN YGSHQPGCGR

FFSPSCSHTKAVKYLTECIKHECCLIGTPWKKYFSTPKPISQCTKDTCVVCVGLNAKSYPA
RGSFYVPVEATAPYCHNEGIKL

>2JON_A Allergen Chain A, Solution Structure Of The C-Terminal Domain Ole E 9 [Olea europaea]
ATPTTPKAAGSWCVPKPGVSDDQLTGNINYACSQGIDCGPIQPGGACFEPNTVKAHAAY
VMNLYYQHAGRNSWNCDFSQTATLTNTNPSYGACNFPSSGN

>ABZ81040.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSILKISSK
FHAAGDHEVNAEEMKGAEMAEKLLRAVESYLLAHTAEYN

>ABZ81041.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSVVKISSK
FHAAGDHEVNAEEMKGAEMAEKLLRAVESYLLAHTAEYN

>ABZ81042.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAAGDHEVNAEEMKGAEMAEKLLRAVESYLLAHTAEYN

>ABZ81043.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAAGDHEVNAEEMKGAEMAEKLLRAVESYLLAHTAEYN

>ABZ81044.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGIPFKFVKERVDEVDNANFKYSYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAAGDHEVNAEEMKGAEMAEKLLRAVESYLLAHTAEYN

>ABZ81045.1 Allergen pollen allergen Que a 1 isoform [Quercus alba]
MGVFTHEQETSVIAPARLFKALFLSDNLIQKVLPAIKSTEIIEGNGGPGTIKKITFG
EASKFKYAKHRIDALDPENCTYSFVIEGDALTVMESVSTEIKCVASPDGGSIMKSTTKY
QTKGDFQLKEEQIAAIEKAAGLLKAVEAYLVAHPDLYK

>ABZ81047.1 Allergen pollen allergen Que a 1 isoform [Quercus alba]
MGVFTHEQETSVIAPARLFKALFLSDNLIQKVLPAIKSTEIIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTYSFVIEGDALFDKLENVSTETKIVASPDGGSIAKSTSK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDLYK

>ABZ81991.1 Allergen Tyr p 3 [Tyrophagus putrescentiae]
MKILLFLCFLVSVAFAPPTIQLKSNTKSQNGFIVGGTEAVDGDAPHQVSLQHTSHFCGG
SIISERWILTAACIDADDLSNPGGMSVRYNTLNLSKGTLVKVKSIKVHEQYSNVTSND
IALLETVASMNLNQTNAVAAKLPAKGNPDQDGLFLSGWGTLSHGDTTIPTNLQKVTVPL
TNRSVCAEAYTGIVNITENMFCAGKMGIGGVDSQCGDSSGGAMLNKLGVVVSFGVGGCD
PKYPGVYTRVSQYLDWIELSAKSSATTLVAVNITLFLTLFIGAIW

>ACA00159.1 Allergen Ves v 3; dipeptidylpeptidase IV [Vespula vulgaris]
MVPLRSFVLLNSLFLVLLAARTVVTRVIDKDNSDRIVKTQNDQNLSKVPFNLEETYTADF
LAYVFNGTWTSDDTIVYTDRTGDILQFDVIKQRSTLIVDSSVMDAYIVSNYVLSPKGRY
LLIGYDLKKGYYSTFMRYVIYDIEHRA YHKIGNDMHIALAKWAPLTDDLIYILDNDIYY
MRFSSNNGFNDVQRVTYDGISGIVYNGVPDWVYEEVLDQSSAIWFSPDGNHLAYASFDDR
NVQEILYLHYGEPGNLDDQYPTVEVKIKYKVGTLNPVVSLLTLVDLHDPTLNKIDLKAPHY
AVGTDNLLYNVQWKDFDHVVVTWSNRVQNKTEIVWYNMYGEIVKTLHVVEHKGWLDIKHL
FFYKGSVYIRKLQPSGTKAGRFHHVTRYDETFKQSPTQMDLTPDAIEVQNICIDQSNR
IYYLASGLGKPSQKNLYSVPADGSEKPTCISCNVLTPEGNVCTYADAIKFSPLGQYYVLC
HGPDPAFVSIFNNAHQKVYSWENNLRLKLLAKRHLPLVKDLDRANGYESKVRFLPHN
FDESKSYPMMLVNVYAGPNTLKIIDAASYGHQVYMTTNRSVIYAYIDGRGSSNKGSKMLFS
IYRKLGTVEVEDQITVTRQLQEMFPWIDSKRTGVWGWWSYGGFSTAMILAKDTSFVFKCGI
AIAPVSSWIYYDSIYTERFMGFPTPEDNLSGYNETDVSRRVEDIRGKKFMLIHGSGDDNV
HYQQLALAKALEKADVMFEQITYTDEAHALFGVLPPLHYHTMDRFWSDCFSLSHAH

>ACA00204.1 Allergen Per a 9; arginine kinase [Periplaneta americana]

MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAEPKGQFYLLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVTA VNDIEKRIPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>ACA23876.1 Allergen Pas n 1 allergen precursor [Paspalum notatum]

MGSLAKIVAVAAVLAALVAGGSCGPPKVPPGNITTNYNGKWLPAKATWYGGPQNGAGPDD
NGGACGIKNVNLPPYNGFTACGNPPIFKDGGKGCSCYEIRCNKPECSGQPVTVFITDMNY
EPIAPYHFDLSGKAFGAMAKPGLNDKLRHYGIFDLEFRRVRCKYQGGQKIVFHVEKGSNP
NYLAMLVKFVADDGDIVLMELKEKSSDWKPMKLSWGAIWRMDTPKALVPPFSIRLTSESG
KKVIAQDVIPVNWKPDTVYNSNVQF

>ACA79908.1 Allergen Ara h 8 allergen isoform 3 [Arachis hypogaea]

MGVFTFEDEITSTLPPAKLYNAMKDADSITPKIIDVKSVEIVEGNGGPGTIKLTIVED
GETKFILHKVEAIDEANYAYNYSVVGVALPPTAEKITFETKLVEGPNGGSIGKLSVKFH
SKGEAKPEEEDMKKGKAKGEALFKAIEGYVLANTQY

>ACA96507.1 Putative Pac c 3 allergen [Pachycondyla chinensis]

TEGGAVHTMCQYTSPQPSPNCGTYSNAHITAADKETILKVHNDERQKVKAGQETRGNPGP
QPAASNMPDLTWDNELAAIAQRWVNQCKIGHDGCNRVERYQVGQNIAMSGSTAKGPCNMN
NLVQMWINEVNALNAADVSSMPSDGNYFMKIGHYTQLVWGKTTKVGCIIQFLDGKFKYC
YLACNYGPAGNMFAGPIYQ

>ACB05815.1 Allergen Lup an 1; 7S globulin vicilin like protein [Lupinus angustifolius]

MAKMRVRLPMLILLGVVFLLAASIGIAYGEKDFTKNPPKEREEEEHEPRQQPRPQQEE
QEREHRREEKHGDGEPGRSQRSEESQEEHERREREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQQSSSGSQRGGGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYPSTTKDQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENEKQR
RGQEQSHQDEGVIVRVSKKIQELRKHAQSSSGEGKPSSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINEGALLPHYNSKAIFIVVDEGEGNYELVGIRDQQRQ
QDEQEEYEQGEEVRRYSKLSKGDVFIIPAGHPLSINASSNLRLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQSYFANAQPQQQQQREKEGRRGRR
GPISSILNALY

>ACB38288.1 Putative Lit v 1 tropomyosin [Litopenaeus vannamei]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>ACB45874.1 Allergen pathogen-related protein 1 [Cucumis melo var. inodorus]

MLPFSFAQDSIKDFVDAHNAARAQVGVGPVHWNKTVDYAHQYANKRIKDCNLVHSGPY
GENIAWGSRLAGTVAVRMWVSEKQFYNYDTNSCVRGKMCGHYTQVVWRNSVRIGCAKVR
CKSGGTFITCNYPGRNIRGQRPYGEGTLQL

>ACB46292.1 Allergen Der p 23; peritrophin [Dermatophagoides pteronyssinus]

MKFNIIIIVFISLAILVHSSYAANDNDDDPTTTVHPTTTEQPDDKFECPSRFGYFADPKDP
HKFYICSNWEAVHKDCPGNTRWNEDEETCT

>ACB55491.1 Putative seed maturation-like protein precursor [Sesamum indicum]

MQFFSSRLLGSSRVLATTLSHFHYNPCTNKAHFTKAQLLPAAPYSNKL VIRSMASGQQF
PPQKQEGQPGEHIMDPTPQATTPEYKPAKLVGKVALVTGGDSGIGRAVGHCFALEGAT
VAFTYVKGQEDKDANDTLGMLMKAKHADAKDPIAIPDLDGYDENCRRVVEEVNNYGRID
ILVNNAEQYEASTVEEIDEPRLERVFRTNIFS YFFTSRHALKHMKEGSSIINTTSVNAY
KGNAKLLDYATKGAIVAFTRGLALQMVEKGIRVNGVAPGPIWTPPLIPASFTEDENAKFG
SQTPMKRAGQPHEVAPSYVFLASNIDSSYITGQVLHPNGGTIVNG

>ACC76803.1 Putative Lit v 3 allergen myosin light chain [Litopenaeus vannamei]

MSRKSGSRSSSKRSKKS GGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFTMLLNMF AERQTGESDDDDVVAKAFLAFADEEGNID
CDTFRHALMTWGDKFSSQEADDALDQMDIDDGGKIDVQGV IQMLTAGGGDDAAEEEA
>NP_001119715.1 Allergen Api m 5; dipeptidylpeptidase [*Apis mellifera*]
MEVLVQLALLLVVHGLVVLVAGKSVPRVIDQDLERYEPLEEDHRGARVPFNLEETYDQ
SFRANSFNGTWKTDREILYSDNYVGDIRLFDVTTGSGTVLLDSSVTADFDKASVMFSFDN
SHVAIGHDYVNGFRYSIHQKCTVYNIKSRTFTDIANGDRIPLFKWSPTRNALIYVHKNDI
YYQVFFEGGSDTRRITNTGVPDIVFNIPDWVYEEVVLGSPVAFWISPDGRHLAFATFND
TNVRDIVISKYGSPGNSRDQYPNEIRIKYPKAGTTNPFVSLVIDLHDPSSKLIDLPPP
DVVGADNVLYTANWRRDGEIVATWTNRVQNKALVLYDTKGNANNIYEEETEGWLRIQP
PLYHDRVIVAKLQDSGTKAGRFLHATRLEYRNGALVDETDLTPGTCEVISLLLVDHARA
RLYYLGTTELKPKSHKNLYSVQLSGNEPPVCLSCDVLTPEGNRCTYAYAYFSTNGSHYALY
CAGPDPVFIAIVNANHRQISIWEEENRSLRRKLAARTQPIVKNFNVNANGYTNKVLYLPP
DFDETKKYPLLITVYAGPNTIRITEEATYGFESYIVTNRSVIYGRIDGRGSAYKGSKMLF
EIYRRLGTVEIEDQIIITRLQEKYSWIDSNRTGIWGWSYGGFSAAMVLATDAESVFKCG
ISVAPVTSWIYYDSL YTERFMGLPTPEDNQSGYNDTDVSRRVEGMRGKKYMLIHGTADDN
VHYQQTMMLNKALVNSDIMFQQQTYTDEAHALGNVFPPLYHTTDRFWANCLGYSH

>ACD36974.1 Putative Gly m Bd 28K allergen [*Glycine max*]
LDSNLIIFIRRG EAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETQSFYIGGGANSHSVLSGFEP AILETAFNESRTVVEEIFSKELDGPIMFV
DDSHVPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSWRK LLETVFGK VNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDV FVVPRYFPFCQVASRDGP LEFF
GFSTSARKNKPQFLAGAASLLR TLMGPELSA AFGVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGLKMEEEEP

>ACD36975.1 Putative Gly m Bd 28K allergen [*Glycine max*]
LDSNLIIFIRRG EAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETQSFYIGGGANSHSVLSGFEP AILETAFNESRTVVEEIFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSWRK LLETVFGK VNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDV FVVPRYFPFCQVASRDGP LEFF
GFSTSARKNKPQFLAGAASLLR TLMGPELSA AFGVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGLKMEEEEP

>ACD36976.1 Putative Gly m Bd 28K allergen [*Glycine max*]
LDSNLIIFIRRG EAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETQSFNIGGGANSHSVLSGFEP AILETAFNESRTVVEETFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSWRK LLETVFGK VNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDV FVVPRYFPFCQVASRDGP LEFF
GFSTSARKNKPQFLAGAASLLR TLMGPELSA AFGVSEDTLRRAVDAQHAAVILPSAWAAP
PENAGLKMEEEEP

>ACD36978.1 Putative Gly m Bd 28K allergen [*Glycine max*]
VLCHGVATTTMAFH DDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLKSHGGRIFYRHMH
IGFISMEPKSLFVPQYLD SNLIIFIRRG EAKLGFYDDELAERRLKTGDLYMIPSGSAFY
LVNIGEGQRLHVICSIDPSTSLGLETQSFYIGGGANSHSVLSGFEP AILETAFNESRTV
VEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSW
RK LLETVFGK VNEKIENKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPD I
GVLLVKLSAGSMLAPHVNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDV FVVPRY
FPFCQVASRDGP LEFFGFSTSARKNKPQFLAGAASLLR TLMGPELSA AFGVSEDTLRRAV
DAQHEAVILPSAWAAPRKMQEAEMEESQMLLKL CQ

>ACD50950.1 Putative Der p 20 allergen [*Dermatophagoides pteronyssinus*]
MVDPATLSKLEAGFQKLQNAQDCHSLLKKYLTRD VFDQLKNKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFAALFDPIIDDYHKGFKPTDKHPKTDFGN IENFVNVDPKNEYV
LSTRVRCGRSLNGYFPNPMLTEAQYKEMETKVKGQLATFEGELKGTYYPLLGM DKATQQQ

LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EVYGRVLKAVKHIEQKIPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AGRYNLQVRGTAGEHTESVGGIYDISNKRRMGLTEYQAVKEMQDGILELIKMEKSM
>ACD65080.1 Allergen For t 1; serine/threonine protein kinase [Forcipomyia taiwana]
GTRVDEIKGHPFFREIDWTKELRNQKAPYEPKIKYPTDTSNFDPIDPKLHDSSNADDYM
IEFFGSGKPCHHGFFFTFRFFDADCKISLNHGNSGDRNDNNNSNDNQSGAIYV
>ACD65081.1 Allergen For t 2; eukaryotic translation initiation factor [Forcipomyia taiwana]
MKPLMMQGHERAITQIKYNREGDLLFSCAKDHPNVWVWVSLNGERLGTFFNGHAGAVWCVDV
DWTTKLITGSGDMSVRLWDVETGTSVACIPCKSSARTVGFSGNQAAYSTDRAMGHIC
ELFVIDSREPSSLNDGDAILKIPISQSKITAMIWGTLDDEITITGHENGQITLWDLRIGR
EINSVNDHMGAINDLQLSKDGTMFVSSSRDTTAKLFDSDSLMCLKTYKTERPVNSAAISP
LLEHVVLGGGQDAMEVTTTSARQGGKFDSSRFHLYEEEFARVKGHFGPINSALAFHPDGRS
YATGGEDGFVRLQTFDSSYYEYIFD

>CAQ55938.1 Allergen pollen allergen Phl p 4.0102 [Phleum pratense]
YYPTPLAKEDFLRCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIHKASTVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLMIIRVIAQGPTATFEAMYLGTCTLTPMMGSKFPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDLLNRNNTFKPFAEYKSDYVYEPFPRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIQKY

>CAQ55939.1 Allergen pollen allergen Phl p 4.0202 [Phleum pratense]
YFPPPAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHVRIRVRSGGHDYEGLSYRSLQPETFVVDLNMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPTVTVIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>CAQ55940.1 Allergen pollen allergen Phl p 4.0203 [Phleum pratense]
YFPPPAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHVRIRVRSGGHDYEGLSYRSLQPETFVVDLNMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTVIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>CAQ55941.1 Allergen pollen allergen Phl p 4.0204 [Phleum pratense]
YFPPPAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHVRIRVRSGGHDYEGLSYRSLQPETFVVDLNMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTVIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>ACE07186.1 Allergen Art v 3; lipid transfer protein (LTP) type 1 [Artemisia vulgaris]

MKMMKFFCAMVVCMVVSSSYAEALKCSVDVSNKISACLSYLKQGGEVPADCCTGVKGLNDA
AKTTPDRQTACNCLKTTFKSNKDFKSDFAASLPSKCGVNIPYKISLETDCNKVK
>ACE07187.1 Allergen Art v 3 allergen precursor [Artemisia vulgaris]
MAMKMMKFFCAMVVCMVLSVSSSYAEALTCSDVSNKITPCLNYLKQGGEVPADCCTGVKGLN
DAAKTPDRQTACNCLKTSFKSNKDLKSDFAASLPSKCGVNIPYKISLETDCNKVK
>ACE07188.1 Allergen Art v 3; lipid transfer protein (LTP) type 1 [Artemisia vulgaris]
MAIKMMKVFCIMVVCMVVSTSYAESALTCSDVSTKISPCLSYLKKGGGEVPADCCTGVKGL
NDATKTPDRQTACNCLKASFKSNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK
>ACE07189.1 Allergen Art v 3 allergen precursor [Artemisia vulgaris]
MAIKMMKVFCMVVCMVVSSSYAEAALTCSDVSTKISPCLNYLKGGGEVPADCCTGVKGL
NDATKTPDRQTACNCLKASFKSNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK
>P00785.4 Allergen Act c 1; cysteine protease, actinidin [Actinidia chinensis]
MGLPKSFVSMSELLFFSTLLILSLAFNAKNTQRTNDEVKAMYESWLIKYGKSYNSLGewe
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLRFSTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLSLSEQELI
DCGRQTQNRGCGNGGYITDGFQFIINNGGINTEENYPYTAQDGEENVDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKQYSSGIFTGPCGTAVDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNHKPYSSLINPP
AFSMSKDGVPVGVDDGQRYSA
>ACE80939.1 Allergen putative allergen Pru du 1.01 [Prunus dulcis x Prunus persica]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAPQAIKHSEILEGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENHSYSYTLTEGDALGDNLEKISYETKLVASPSGGSIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN
>ACE80955.1 Allergen putative allergen Pru p 2.02 [Prunus dulcis x Prunus persica]
MMKTLVAVLSLSLTLTLLSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFE LASQASFQ
LDTPVPWSGRFRWARTRCSTDASGKFCETADCDGSGQLMCNGKTGIPPATLAEFTIAAGGG
QDFYDVSLVDGFNLPMSVTPQGGTGTCKMGSCAANVNLVCPSELQKIGSDGSVVACLSAC
VKFGEPPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYSYA FDDNKGLFTCSGGPNYLITF
CP
>ACE80956.1 Allergen putative allergen Pru du 2.01A [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHA AKITFTNKCSYTVWPGTLTGDQKPQLSLTGFE LATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMAVAPQGGTGECKASTCPADV NKVCPAQLQVKGSDGSVIAC
KSACLAFNQPYCCTPPNDKPETCPPTDYSKIFKTQCPQAYSYA YDDKSSTFTCSASPDY
LITFCP
>ACE80957.1 Allergen putative allergen Pru p 2.01A [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHA AKITFTNKCSYTVWPGTLTGDQKPQLSLTGFE LATG
ISNSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVSLVDGFNLPMSVAPQGGTGECKASTCPADINKVCPAELQVKGSDGSVIAC
KSACLALNQPYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSYA YDDKSSTFTCSGRPDY
LITFCP
>ACE80958.1 Allergen putative allergen Pru du 2.01B [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHA AKITFTNKCSYTVWPGTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMSVAPQGGTGKCKASTCPANVNAACPAQLQVKGSDGKVIAC
KSACLAFNQPKYCCTPPNDKPATCPPTDYSRFFKTQCPQAYSYA YDDKSSTFTCNGRPDY
LITFCP
>ACE80959.1 Allergen putative allergen Pru p 2.01B [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHA AKITFTNKCSYTVWPGTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMSVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDGSVIAC
KSACLAFNQPKYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSYA YDDKSSTFTCSGRPDY
LITFCP
>ACE80972.1 Allergen putative allergen Pru du 4.02 [Prunus dulcis x Prunus persica]

MSWQTYVDDHLMCEIEGNHLSAAAIIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGVTVKKSTLALLIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>ACE80974.1 Allergen putative allergen Pru du 2.02 [Prunus dulcis]

MMKTLVVVLSLSLTLSSFGGAHAATISFKNNCPYTVWPASFGNPQLSTTGFEPLSQASFP
LDTAPWWSGRFWARTGCTDASGKFCVETADCDGQMLCNGKTGIPPATLAEFTIAAGGGQ
DYDVSLSVDGFNLRMSVTPQGGTGTCKTGSCAANVNAVCPSELQKIGSDGSVVACLSACV
KFNQPQYCCTPPQETKEKCPPTNYSQIFHDQCPDAYSYAYDDNKGLFTCSGGPNYLITFC
P

>ACE82289.1 Allergen glutathione transferase [Triticum aestivum]

MAGEKGLVLLDFWVSPFGQVRVIALAEKGLPYEYAEEDLMAGKSDRLLRANPVHKKIPVL
LHDGRPVNESLIIQLYLEDAPDAPALLPSDPYARAQARFWADYVDKKVYDCGSRLWKLK
GEPQAQARAEMLDILKTLGDALGDKPFFGGDKFGFVDAAFAPFTAWFHSYERYGEFSLPE
VAPKIAAWAKRCGERESVAKSLYSPDKVYDFIGLLKKKYGIE

>ACE82290.1 Allergen peroxiredoxin [Triticum aestivum]

MPGLTIGDTPVPLELDSHKGIRIHDYVGNQYVILFVSHPGDFTVCTTELAAMANYAKEF
EKRGVLLGISCDVQSHKEWTKDIEAYKPGSRVTYPIMADPDRSAIKQLNMVDPDEKDG
QGQLPSRTLHIVGPKVVKLSFLYPSCTGRNMDEVVRAVDSLTAACHKVATPANWKPGE
CVVIAPGVSDEEAKMFPQGFETADLPSKKGYLRFKTV

>ACE82291.1 Putative profilin [Triticum aestivum]

MSWQTYVDDHLCCEIDGQHLTSAAILGHDGSVWAESPFPKFKPEEIAGIVKDFEPPGHL
APTGLFLGGTKYMVIQGEPGA VIRGKKGTTGGITIKKTGMALILGIYDEPMTPGQCNLVE
RLGDYPVEQGF

>CAQ68366.1 Allergen Sar sa 1; parvalbumin beta [Sardinops sagax]

MALAGLVKEADITAALEACKAADSFDHKAFFHKVGMMSGKSADELKKAFAIIDQDKSGFIE
EELKLFQNFCKKARALTDGETKKFLKAGDNVGDGKIGIDEFNHLVKH

>ACF19589.1 Allergen Cur 1 4; serine protease [Curvularia lunata]

MKYSLIAALPALAAASPTFSTETIHKQSAPVLSSTSAKEVPNSYMVVFKKHVKDASKHHD
WVQSVHSKNTQERMELRKRSSDLPVSNEVFAGLKHTYELSGLKGYSGHFDDLEAIRNH
PDVDYIERDSEVRILGGDEPETENNSPWGLARISHRDSLSFGTWNKYLYAADGGEGVDVY
VIDTGTNVHDHVDVEGRAKWKGTIPNGDADEDGNGHGHGTHCSGTVAGKKYGVAKKAHVYAVK
VLRNNGSGTMSDVVKGVEFAAKSHSEAVSAAKNGKKKGFKGSTANMSLGGGKSTTLDMAV
NAAVDAGLHFAVAAGNDNADSCNYSAAAENA VTVGASTLLDERAYFSNYGKCNDIFAPG
LNILSTWIGSKHATNTISGTSMASPHIAGLLAYMLSLQPAKDSAYAVADITPKLKANLI
AIGTVGALSDVPSNTANVLAWNGGGSSNYTDIIEKGGYTVKKAASKEEEEKESEFRITIPS
LSELEDDFEKAKESAGRKAHHVGGKL

>P50635.2 Allergen RecName: Full=Apyrase; AltName: Full=Adenosine diphosphatase; AltName: Full=ATP-
diphosphohydrolase; AltName: Full=ATP-diphosphatase; Short=ADPase; AltName: Allergen=Aed a 1; Flags:
Precursor [Aedes aegypti]

MAGRPGYSEVIFLYVVSVAVIARATDNMPVNDVSKLFLPLTLIHINDLHARFEETNMKSN
VCTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGTLYWYNLLRWNVTADFIKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAALKKDNIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGPYPTLVESKNKRKIPIVQAKS
FGKYVGRLTLYFDEEGEVKNWEGYPVDFIDHKVQQDPQILKDLVPWRAKVEAIGSTVVGET
MIELDRDSCRDQECTLGVLADGFADQYTNDFRPFQAIQAGNFRNPIKVGKITNGDIIE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRNCLQVSGLRIVIDISKPVRSRVKKIE
VMDYTNPKSDKLKPLDKEAEYYIVVPSYLADGKDGFSAMKRATARRTGPLDSVDFKNYVE
KIKKVDNLKLGRVIVCKGSKCT

>A5HII1.1 Allergen RecName: Full=Actinidain; Short=Actinidin; AltName: Full=Allergen Act d 1; AltName:
Allergen=Act d 1; Flags: Precursor [Actinidia deliciosa]

MGLPKSFVSMSELLFFSTLLILSLAFNAKNLQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLENQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLSLSEQELI

DCGRTQNTRGCGNGGYITDGFQFIINNGGINTEENYPYTAQDGEENLDLQNEKYVTIDTYE
NVPYNNNEWALQTAVTYQPVSVALDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGAGTTCGIATMPSYPVKYNNQNHKPKYSSLINPP
AFSMSKDGPPVGVDDGQRYSA

>ACF53836.1 Allergen Bla g 4 isoallergen 1 [Blattella germanica]

MCITGVILFAVLAVCATDTLANEDCFRHESLVPNLDYKKFIGTWVIAAGTSEALTQYKCW
NDLFFFNNALVSKYTDSKGNRTTIRGRTKFEKNKFTIDYDDEGKAFSAPYSVLATDYDN
YAIVEGCPAAANGHVIVVQLRLTLRSFHPEQGDKEALQHYTEVHVQVNHKKAIEEDLKHFN
LKYEDLHSTCH

>ACF53837.1 Allergen Bla g 4 isoallergen 2 [Blattella germanica]

MCITGVILFAVLALCATDTLADEDCFRHESLVPNLDYERFRGMWVIVAGTSEALTQYKCW
IDWFSYDDALVSKYTDSKQGNKILIGKIKFEKNKFTIDYDDEGKAFSAPYSVLATDYDNY
AIVEGCPAAANGHVIVVQLRLTWRRFHPKLGDKEMIQHYTLQVNVNHKKAIEEDLKHFNL
KYEDLHSTCH

>ACG58378.1 Allergen Der p 1 allergen precursor [Dermatophagoides pteronyssinus]

MKITLAIASLLALS AVYARPSSIKTFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSLDEFKNRFLMSAEAFEHLKTQSDLNAETNACNINGNAPAEIDLRQMRTV
TPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEY
IQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNKIREALQTHSAIAVII
GIKDLDAFRHYDGRTHIQRDNGYQPNYHAVNIVGYSNAQGVQVYWIVRNSWDTNWGDNGYG
YFAANIDLMMIEEYPYVVIL

>ACG59280.1 Allergen major allergen beta-lactoglobulin [Bos taurus]

MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENSAEPEQSLVCQCLVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>ACG59281.1 Putative major allergen CM16 [Triticum aestivum]

MASESNCVLLLA AVLVSIFA AVAAIGNEDCTPWMSTLITPLPSCRDYVEQQACRIETPGS
PYLAKQQCCGELANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMDFVRILVTP
GYCNLTTVHNTPYCLAMEESQWS

>ACH70931.1 Allergen Sal s 2; enolase [Salmo salar]

MSITKIHAREILDSRGNPTVEVDLYTAKGRFRAAVPSGASTGVHEALELRDGDKSRYLGK
GTVKAVDHVNKDIAAKLIEKKFSVVDQE KIDHFMLELDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGHKDVILPCPAFN VINGGSHAGNKLAMQEFMILPIGASN FHE
AMRIGAEVYHNLKNVIKAKYGKDATNVGDEGGFAPNILENNEALELLKTAIEKAGY PDKI
IIGMDVAASEFYKAGKYDLDFKSPDDPARYITGDQLGDLYKSFYKGYPVQSIEDPFDQDD
WAAWTKFTA AVDIQVVGDDLTVTNPKRIQQAVEKKACNCLLLKVNQIGSVTESIKACKLA
QSNGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKDYRHPKIN

>ACH85188.1 Putative main allergen 15 kDa oleosin [Sesamum indicum]

MAEHYGGQQQTRAPHPQLQPRAQRVVKAAATAV TAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALS VLSWIYRYLTGKHPPGADQLES AKTKL
ASKAREMKDRAEQFSQPVAGS QTS

>ACH91862.1 Allergen arachin Arah3 isoform [Arachis hypogaea]

MAKLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYE EPAQQGR
RYQSQRPPRRLQEEDQSQQQQDSHQKVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNDNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRQSRRRSLPSPYSPQSQRQEEREFS
PRGQHSRRERAGQEEENEGGNIFSGFTPEFLAQAFQVDDRQIVQNL RGENESEEQGAIVT
VRGGLRILSPDRKRGADDEEEYEDEYEYDEEDRRRGRGSRGSGNGIEETICTATVKKNI
GRNRSPDIYNPQAGSLKTANELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVD SNGNRVYDEELQEGHVLVVPQNF AVAGKSQSDNFEYVAFKTD SRPSIANL
AGENSVIDNLP EEVVANSYGLPREQARQLKNNNPFKFFVPPSQQSPRAVA

>CAP05019.1 Allergen Par j 4; calcium-binding protein / polcalcin [Parietaria judaica]

MADKQIDRAEQERIFKRFDSNGDGKISSSELGEALKALGSVTADEVHRMMAEIDTDGDGA

ISLEEFSSFADANRGLIKDIAKIF

>P18153.2 Allergen RecName: Full=37 kDa salivary gland allergen Aed a 2; AltName: Full=Protein D7; AltName: Allergen=Aed a 2; Flags: Precursor [Aedes aegypti]

MKLPLLLAIVTTFSVVA STGPFDP EEMLF TFR CMEDN LEDGPNRLPMLAKWK EWINEPV
DSPATQCFGKCVLVRTGLYDPVAQKFDASVIQE QFKA YPSLGEKSKVEAYANA VQQLPST
NNDCAAVFKA YDPVHKAHKDTSKNL FHGNKELTKGLYEKLGKDIRQKKQSYFEFCENKYY
PAGSDKRQQLCKIRQYTVLDDALFKEHTDCVMKGIRYITKNNELDAEEVKRDFMQVNKDT
KALEKVLNDCKSKEPSNAGEKSWHYKCLV ESSVKDDFKEAFDYRE VRSQIYAFNLPKKQ
VYSKPAVQSQVMEIDGKQCPQ

>CAQ57979.1 Allergen Tri a 12; profilin [Triticum aestivum]

MSWKAYVDDHLCCEIDGQHLTSAAILGHDGSVWAQSPNFPQFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKY MVIQGE PGVVIRGK KGTGGITIKKTGMALILGIYDEPMTPGQC NLVVE
RLGDYLIDQGY

>ACI25605.1 Putative venom acid phosphatase [Apis mellifera]

MSVIAILAMVVGVAELKQINVIFRHGDRIPDEKNEMY PKDPYLYYDFYPLER GELTNSG
KMREYQLGQFLRERYGDFLGD IYTESVSALSSFYDR TKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRRYEDNIFLPEDCLLFTIEFDRVLES PRGKYEF SKYDKLKKKLEEW TG
KNITTPWDY YYYIYHTLVAEQSYGLTLPSWTN NIFPRGELFDATVFTYNITNSTPLLK KLY
GGPLLRIFTKHMLDVVSGTQKKKRKIYLFSGHESNIAA VLHALQLYYPHVPEYSSSIIME
LHNIEGTHYVKIVYYLGIPSEAGELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFA
DESANNLSIEELDFVKNLIRIAGTENK

>CAR82265.1 Allergen D-type LMW glutenin subunit [Triticum aestivum]

MARQLNPSNKE LQSPQQSFSHQ QPFPQQPYPQQPYPSQQPFPPTPQPQFPQQSQ
QPFTQPQQPTPLQPQQPFPQQPQQPFPQQPFPWQPQQPFPQTQQSFPLQPQQPFP
QQPQQPFPQQLQFPQQPEQIIPQQPQQPFLLESQQPFPQQPQQPFPQQQLIPMQPQQP
FPQQSQSQPFPGPQQLFPELQQPIPQQPQQPFP LQPQQPFPQQSQPFPQQPQQPCPL
QPQQPFPQQPQQPFPQQPQQPFP LQPQQPFP LRPQQPFSQQPQQSQSFQPQPQQPQQP
SILQPQQPFLQPQQQLSQLEQTISQQPQQPFPQQPHQPQQPYPQQQPYGSSLSIDGQ

>CAR82266.1 Allergen D-type LMW glutenin subunit [Triticum aestivum]

MGRLLSPRGKELHTPQE QFPQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQIAQQPQQLPQQQFPI
PYPPQQSQEPSYQQYPQQQPSGSDVISICGL

>CAR82267.1 Allergen D-type LMW glutenin subunit [Triticum aestivum]

MGRLLSPRGKELHTPQE QFPQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQIAQQPQQLPQQQQIP
QQPQLFPQQQFPQQSQPQQQFPQQQFPQQQQLPQQQFPQPQQIPQQQQIPQQPQQFPQ
QQFPQQQFPQQQFPQQQFPQQQFHQQQLPQQQPSGSDVISICGL

>CAP17694.1 Allergen Lep w 1; parvalbumin [Lepidorhombus whiffiagonis]

MTFAGLDAAEIKAAALDGC AAADSF DYKKFFGACGLAKKSAEEVKAAFNKIDQDESGFIEE
DELKLFLQNFSASARALTDKETANFLKAGD VDGDKIGIEEFTDLVRSK

>ACI32128.1 Allergen tropomyosin [Dermatophagoides pteronyssinus]

MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEV RALQKKIQQIENELDQV
QEQLSAANTKLEEKEKAPQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERM RKMLEHRSITDEERMEGLENQLKEARMM AEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEE LRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDEL DQTFaelTGY

>ACI41244.1 Putative 2S albumin [Sesamum indicum]

MAKKLALAAVLLVAMVALASATTYTTT VTTT AIDDEANQQSQQCRQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQSLRDCCQQLGNVDERCRCEAIRQAVRQQQQEGGY
QEGQSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>ACI47547.1 Allergen Jug r 3; lipid transfer protein (LTP) type 1 [Juglans regia]
MTGSLVLKLSGMVLLCMVVAAPVAEAVITCGQVASSVGCIGYLRGTVPTVPPSCCNGVK
SLNKAATTADRQAACECLKKTSGSIPGLNPGLAAGLPGKCGVSVPYKISTSTNCKAVK
>ACI68103.1 Allergen Parvalbumin beta 1 [Salmo salar]
MACAHLCKEADIKTALEACKAADTFNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFPCKARELTAETKAFLKAGDADGDGMIGIDEFAVLVKQ
>ACJ04729.1 Allergen ovomucoid [Gallus gallus]
MAMAGVFLVFSFVLCGFLPDAVFGAEVDCSRFPNATDMEGKDVLCNKNDLRPICTDGV
YTNDCLLCAYSVEFGTNSKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDRHDDGGCRKELAAVSVDCSEYKPKDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLTSLSHFGKC
>ACJ23861.1 Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTHESEQUETSVIPPARLFKAFVLDSNLIPLKVLQPQAIKSTEIIIEGNGGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKVFVSPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK
>ACJ23862.1 Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTHESEQUETSVIPPARLFKAFVLDSNLIPLKVLQPQAIKSTEIIIEGDGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKVFVSPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK
>ACJ23863.1 Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTHESEQUETSVIPPARLFKAFVLDSNLIPLKVLQPQAIKSTEIIIEGNGGGPGTIKKITFG
EASKYKYSRHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKVFVSPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK
>ACJ23864.1 Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYESETTTVITPARLFKAFVLADNLIPLKVAPQAIKSSEIIIEGSGGGPGTIKKITFG
EGSQFNYSKHRIDEIDNANFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAHY
>ACJ23865.1 Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYESETTTVITPARLFKAFVLADNLIPLKVAPQAIKSSEIIIEGSGGGPGTIKKITFG
EGSQFNYSKHRIDEIDNANFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAHY
>ACJ23866.1 Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYESETTTVITPARLFKAFVLADNLIPLKVAPQAIKSSEIIIEGSGGGPGTIKKITFG
EGSQFNYSKHRIDEIDNANFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAHY
>ACJ37389.1 Allergen Bla g 4 allergen [Blattella germanica]
VLALCATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCVWIDRFSYDDAL
VSKYTDSDQGNRTTIRGRKTFEGNKFTIDYNDKGFSAFAPYSVLATDYENYAIVEGCPAA
ANGHVIVYQLRMTLRRFHPKLGDKEMLQHYTLQVNQNKKAIEEDLKHFNLYEDLHSTC
H
>ACJ37391.1 Putative Per a 4 allergen variant 1 [Periplaneta americana]
AGDSDSCQIGTSFTGLDMTKYVGTWYELFRTPNSEEDFTNCEYDKYTLDENGVIQVTSVA
YTNSIRGFITSTGTVPSWTEDTFDIAYGDDTWSSTYFMVGTDYQTYISIVAGCLDNDYSR
HLYWIASHETSFDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQYKS
>NP_001133181.1 Allergen fructose-bisphosphate aldolase A [Salmo salar]
MPHAFPLTPDQKKELSIALKIVAKGKGILAADESTGSVAKRFQSINTENTEENRRLYR
QLLFTADDRAGPCIGGVIFHETLYQKTDAGKTFPEHVKSRRGWVVGIVKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKDGCDFAKWRCVLKITSTTPSRLAIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAAMYKALSDHHVYLEGTLLKPNMVTAGHSC
SHKYTHQEIAMATVTALRRTVPPAVPGVTFLSGGQSEEEASINLNVMNQCPLHRPWALTF
SYGRALQASALKAWGGKPGNGKAAQEEFIKRALANSLACQGYVASGDSAAAGDSLFLVAN
HAY
>CAT99611.1 thaumatin-like protein [Malus domestica]
ASRSVDAPSPWSGRLWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA

ANGGQDYDDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTTEYSEIFEKQCP

>CAT99612.1 thaumatin-like protein [Malus domestica]

ASRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDDVSLVDGFNLPMPYVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTTEYSEIFEKQCP

>CAT99617.1 profilin [Malus domestica]

MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQEGGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE
RLGDYLDQGV

>CAT99618.1 profilin [Malus domestica]

AQSATFPQLKPEEVTGVMNEFNPEGSLAPTGLYFGGTYMVIPGEPGVVIRGKKGPGGVT
VKKSTMALLIGIYDEPM

>CAT99619.1 profilin [Malus domestica]

GNSLTAAILGQDGSVWAQSATFPFAFKPEEIAAILKDFDQPGTLAPTGLFLGGTKYMVIQ
GEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPLTPGQCNIIVERLGDYLIEQGL

>ACK76291.1 Putative Der f 3 allergen [Dermatophagoides farinae]

MMILTIIVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
RILTAHCVNGQSAKCLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKT
PMTLDQTNAPVPLPPQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSQCQDSSGGPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>ACK76292.1 Putative Der f 3 allergen [Dermatophagoides farinae]

MMILTIIVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
WILTAHCVNGQSAKCLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDSDVALIKLKT
PMTLDQTNAPVPLPPQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSQCQDSSGGPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>ACK76296.1 Putative Der f 6 allergen [Dermatophagoides farinae]

MIKIFLVTILIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIACVVGGQDADLAE
APFQISLLKDYLIMKSHMCGGSLISESTVVTAHCTYGGKASSLSVRYGTNQRRTSSSYGD
LKVKTIHQHESYDPDTIQNDISLLILSKPVVPTSTNVRMIEIETDDIVDGDKVTIYGWGLT
DGNGKDLDPKQLQKGSMTIVGNDRNEKWSINAIHPGMICALDKTQSGCNGDSSGGPLVSA
NRKLTGIVSWGSPKCPPGEYMSVFTRPKYYLDWITKNIV

>ACK76297.1 Putative Der f 6 allergen [Dermatophagoides farinae]

MIKIFLVTILIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIAGVVGGQDADLAE
APFQISLLKDYLIMKSHMCGGSLISESTVVTAHCTYGGKASSLSVRYGTNQRRTSSSYGD
LKVKTIHQHESYDPDTIQNDISLLILSKPVVPTSTNVQMIEIETDDIVDGDKVTIYGWGLT
DGNGKDLDPKQLQKGSMTIVGNDRNEKWSIDAIHPGMICALDKTQSGCNGDSSGGPLVSA
NRKLTGIVSWGSPKCPPGEYMSVFTRPKYYLDWITKNIV

>ACK76299.1 Allergen Der f 7 allergen [Dermatophagoides farinae]

MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVPDHADKFER
HVGILDFKGEAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSVDVLTAFQDTRKEMTKVLAPAFKRELEKN

>BAH09387.1 Allergen allergen [Arthroderma vanbreuseghemii]

MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKDRPSG
WNLNLKNGDISVLTDDSDVSEITWLGDKTKIVYVNGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKSGDKINFGYQSTTKGDLYNEAAAKEAVSSARIYDSLFRHWDT
YVGTQFNAVFSGALTKSGDKYSFDGKLNLVHPVKYAESPYPPFGSGDYDLSSDGKTV
FMSKAPELPAKANTTTYIFVPHDGSRAEPINKRNGRPTPQIEGASSSPVFPDGGKRI
AYLQMATKNYESDRRVIYIAEVGSNKPVQRIASNWDRSPEVVKWSSDGRTLVTAEHAT
GKLFTLPADARDSHKPAVVKHDGSVSSFYFVGGSSKSVLISGNSLWSNALFQVATPGRPNR
KLFYANEHDPKGLGPNIDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG

SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIQGHDLGRKFKALVSHDGTFFVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDDFRLSVAEGVGLFNVLQKEG
IPSRFLNFPDETHWVTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>BAH10157.1 Putative tropomyosin [*Venerupis philippinarum*]

MDAIKKKMAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLLQKKYTNLENEFDQV
NEKYNEGVNKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTQVKLDEATSKLEDATKTA
DESERGRKVLESRSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLAEKEKYKAISDELDTFAELAGM

>BAH10148.1 Putative tropomyosin [*Haliotis discus discus*]

MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGRKVLESRSIADDDRIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKEKYKAISDELDTFAELAGY

>BAH10149.1 tropomyosin [*Turbo cornutus*]

MDAIKKKMLAMKMEKENALDRAEQLEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQDALSKLENSEKRVTEMEQEVSGTTRKITLLEEDLERNEEGLQTATERLEEASKAA
NESERGLADDERIDQLEAQLKEAKYIAEDAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKEKYKAISDELDTFAELAGY

>BAH10150.1 Putative tropomyosin [*Neptunea polycostata*]

MDLIKKKMLSMKMDKENALDRADVMEQKFRDAEDQKSKLEDDLNNLQKKYSQLENEFDQV
NEGLLDANAKLETQDKRVNEMEQEISGLNRRRIQLLEEDLERSEERLQTATEKLEEATKAA
DESERARKVLESKNQTAESADSLEAQLKESKYIAEDAERKYDEAARKLAITEIDLERA
TRLEAAEAKCYELDEQLHVVGNNIKTLSIQNDQASQREDSYEETIRDLTQRLKDAENRAQ
EAERTVTKLQKEVDRLLEDELLAEKERYKNISDELDTFAELAGY

>BAH10151.1 Putative tropomyosin [*Scapharca broughtonii*]

MDSIKKKMIAMKMEKENALDRSEQLEQKLRDTEEQKAKVEEELGAYQKKFSILENDFDTV
NTKWEDASVKLEEAEKKLTESEQEIASLTRKTTLLEDDIAKNEEKLMASATQKLEEASHAA
DESERGRKVLESRSFADDERIDALEAQLKEAKYIAEDADRKYDEAARKLAITEVDLERAE
ARLEAAEAKIIELEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTANLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKERYKAISDELDTFAELAGY

>BAH10152.1 Allergen Cra g 1; tropomyosin [*Crassostrea gigas*]

MDSIKKKMIAMKMEKENAQDRAEQLEQQLRDTEEQKAKIEEDLTSLQKKHSNLENEFDTV
NEKYQECQTKLEEAEKTASEAEQEIQLNRRRIQLLEEDMERSEERLQTATEKLEEASKAA
DESERNRNVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAE
ARLEAAEAKVYELEEQLSVVANNIKTLQVQNDQASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKERYKAISDELDTFAELAGY

>BAH10153.1 Putative tropomyosin [*Fulvia mutica*]

MEAIKKKMAMKMEKENAIDKAEQLEIKLKDTEDESKAKIEEDLTSLQKKYTNLENEFDQV
NEKHADSVAKLEAAEKRLTETEDEIKGYTRKIQLLEDDLERTQTKLDEATGKLEEATKSA
DESERGRKVLESRSIADDDRIDGLEKQVKDAKYVAEESDRKYDEAARKLAITEVDLERAE
TRLEAAEAKIVELTEELSVVGNNLKGLQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVIKQLQKEVDRLLEDELLQEKEKYKQISDELDTFAELAGM

>BAH10154.1 tropomyosin [*Pseudocardium sachalinense*]

MDSIKKKMAMKIEKENALDKSEQLDQKLDVEETKAKVEEDLSSLQKKYTNLENEFDKV
NEQYNESVVKLEASEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLDEALLKLEDATKTA
DESERGRKVLESRSIADDDRIDGLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLAEKEKYKTISDELDTFAELAGM

>BAH10155.1 Putative tropomyosin [*Tresus keenae*]

MDSIKKKMQAMKIEKENALDKAEQLDQKLKDTEDSKAKIEEDLSSLQKKYTNLENEFDQV
NEKYNDGVVLESSEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLEEATLKLEDATKTA
DESERGRKVLESRSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVNKLQKEVDRLLEDELLAEKEKYKQISDELDTQFAELAGM

>BAH10156.1 Putative tropomyosin [*Solen strictus*]

MDSIKKKMQAMKLEKENALDKSEQLEQKLKETEDSKARAEEDLSSLQKKFTNLENEFDKV
NEQYQEGVIKLEASEKRVTECEDEIKGFTRRIQLLEDDLERTQAKLDEALLKLEDASKTA
DESERGRKVLESRSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELQVVGNNKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLAEKEKYKQISDELDTQFAELAGM

>ACL36923.1 Allergen Tyr p 34; troponin C [*Tyrophagus putrescentiae*]

MSVEELSKEQVQMLRKAFFDMFDRDKKGYIHTNMVSTILRTLGTQTFEENDLQQLIIEIDAD
GSGELEFDEFLLTARFLVEEDTEAMQEELREAFRMYDKEGNGYIPTSALREILRALDDK
LTHEDELDEMIAEIDTDGSGTVDFDEFMEMMTGD

>ACM24358.1 Putative arginine kinase [*Blattella germanica*]

MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDLG
QVYRRLVTA VNDIEKRIPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>CAR48256.1 Allergen Xip g 1; parvalbumin beta [*Xiphias gladius*]

MAFAGVLSADVA AALEACKDAGTFDYKFKFFKSCGLAAKSTDDVKKAFIIDQDKSGFIE
EDELKFLQNFKAAARPLTDAETEAFKAGSDGDGKIGAEFAALVTA

>ACM89179.1 Allergen Lit v 4; sarcoplasmic calcium-binding protein [*Litopenaeus vannamei*]

MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGGKYGDFPGAFAKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSFAFAEVEKIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKV VQ

>ACN32322.1 Allergen Asc l 3; tropomyosin [*Ascaris lumbricoides*]

MDAIKKKMAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSVANSNLEEKEKKVQEA EAEVAALNRRMTLLEEELERAEERLKLATEKLEEATHA
DESERVRKVMENRSFQDEERANTVESQLKEA QMLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEELR VVGNNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLLEDELVHEKERYKSISEELDQTFQELSGYRSD

>3C3V_A Allergen Chain A, Crystal Structure Of Peanut Major Allergen Ara H 3 [*Arachis hypogaea*]

ISFRQQPEENACQFQRLNAQRPNRIESEGGYIETWNPNNQEFECAGVALSRLVLRNAL
RRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQGRRYQSQRPPRRLQEEDQSQQQ
QDSHQKVHRFNEGDLIAVPTGVAFWL YNDHDTDVVA VSLTDTNNDNQLDQFPRRFNLAG
NHEQEFLRYQQQSRQSRRRSLPSPYSPQSQRQEEREFSPRGQHSRRERAGQEEHEGG
NIFSGFTPEFLAQAFQVDDRQIVQNLGENESEEQGAIVTVRGGLRILSPDRKRGAD EEE
EYDEDEY EYDEEDRRRGRGSRGSGNGIEETICTATVKKNIGRNRSPDIYNPQAGSLKTAN
ELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYALGRAHVQVVD SNGNRVYDEE
LQEGHVLVVPQNFAVAGKSQSDNFEYVAFKTDSRPSIANLAGENSVIDNLPEEVVANSYG
LPREQARQLKNNNPFKFFVPPSQQSPRAVA

>ACN62248.1 Allergen Ara h 2.01 allergen [*Arachis hypogaea*]

MLTILVALALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSYER
DPYSPSQDPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRCEALQQIMENQSDRLQG
RQQEQQFKRELRLNLPQQCGLRAPQRCDLDVESGGRDRY

>ACN87223.1 Allergen Pro c 1; tropomyosin [*Procambarus clarkii*]

MDAIKKKMATKLEKDNAMDRADTLEQQNKEANIRAEKAE EEVHNLQKRMQHLENDLDQV
QESLLKANTQLEEKDKAISNAEGEVAALNRRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE

ERAETGESKIVELEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAEEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTQTFSELTY

>ACO34813.1 Putative Sal k 1 pollen allergen [*Salsola kali*]

QLIPNPAAELSWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFGTVDSA
TLIVESDYFVGANLIVSNSAPRPDQGRKGAQASALRISGDRAAFYNCKFTGFQDQDVCDDK
GNHLFKDCYIEGTVDVDFIGEARSLYLNTELVVPGDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEAARVVSFVSYCNLSDAVKPEGWSDNNKPAAQKTIFFGEYKNTGPG
AAADKRVPTKQLTEADAKTFTSLEYIEAAKWLPPPKV

>ACO34814.1 Allergen Sal k 3 pollen allergen [*Salsola kali*]

MASHVVGYPMPGPKRELKFALESFWDGKSSAEDLKKVAADLRSSIWKQADAGIKYIPSN
TFAYYDQVLDTTAMLGAVPARYGFNGGEIGFDLYFSMARGNASLPAMEMTKWFDTNYHYI
VPELGPEVKFAYSSHKAVIDEYKEAKALGVDTVPVLPVGPVSYLLLSKAAKGVKESFPLLSL
LPKILPVYKEVIAELKAAGASTIQFDEPTLVMDLESHQLKAFTDAYADLESTLSGLNVLV
ETYFADLTPEAYKTLVSLNGVTAFGFDLVRGKTLDLIKSGFSPGKYLFAGVVDGRNIWA
NDLAASLTLQSLESIVGKDKLVVSTSCSLHTAVDLVNETKLDDEIKSWLAFAAQKQVLE
VNALAKALAGQKDEAFFSANAAALASRKSSPRVTNEAVQKAAAGLKGSDHRRATTVSARL
DAQQKLNLPVLPPTTIGSFQTVELRRVRREYKAKKISEEEYVKAIKEEISKVVKLQEE
LDIDVLVHGEPERNDMVEYFGEQLSGFAFTVNGWVQSYGSRVCKPPIYGDVSRPKAMTV
FWSSLAQSMTSRPMKGMTGPVTLNWSFVRNDQPRHETCYQIALAIEDEADLEKAGIN
VIQIDEAALREGLPLRKSQGHGFYQWAVHSFRITNVGIQDQTTQIHTHMCYSNFDIIHSI
IDMDADVITIENSRSDEKLLSVFREGVKYAGIGPGVYDIHSPRIPTEELADRIRKMLA
VLESNVLWVNPDCGLKTRKYNEVNPALSNMVYAAKPI

>CAX32963.1 Allergen Gal d 8; parvalbumin [*Gallus gallus*]

MAMTDVLSAEDIKKAIVGAFSAAESFNYKFFEMVGLKKSPELVKKVFHILDKDRSGFIE
EEELKFVLKGFPTDGRDLSKETKALLAAGDKDGDGKIGADEFATMVAES

>ACO56333.1 Allergen Cor a 14; 2S albumin [*Corylus avellana*]

MARLATLAALFAALLVAHAAAFRTTITVVDVDEDIVNQQGRRGESCREQAQRQQNLNQC
QRYMRQQSQYGSYDGSNQQQQQEQCCQQLRQMDERCRCEGLRQAVMQQQGEMRGEEMR
EVMETARDLPNQCRSLSPQRCEIRSARF

>ACP43298.1 Allergen Ama r 2 pollen allergen [*Amaranthus retroflexus*]

MSWQAYVDDHLMCEIEGTTNHLTGAAILGLDGSVWAQSADFPQFKPDEIAAIVEDFDEPG
TLAPTGLHLGGTKYMQVIGGEPGAVIRGKKGAGGICVKKTGQALVMGIYDEPVTGQCENMI
VERLDYDYLIEQGY

>BAH59276.1 Putative cochineal major allergen [*Protortonia cacti*]

MPVRMLFSILISLILVSVVVGNEHYPKVSPAQFSAAFHGYELPQKEGRADEVDSNEVKFY
LYTRQNLHKYELHTGYNCSNSYESLRNSTYNVRKETKFLIHAWTQSPKDINDIYIYLYA
ENVNVIMVDWSMYSQTCNYNSTSYVVIPKVAKALSDLMLKLLTGYGAVPQKNFHVIGFLHG
AHIAGIAGKYISPLRISRISGLDPVGYNIDGTALPVLQNGDADFIDVIYTSIEYYGTQRQ
IGDLSFYPPDRGTHPQKQCPPDPNEWVCSALASIKYWRESITSPTAFSAIRCDNYVQYHES
RCPGPNTTMGEYASRNAPFGKYLLNTNPEPPYSQS

>ACR43473.1 Allergen Cra c 1; tropomyosin [*Crangon crangon*]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV
QEALLKANAHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAEEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTQTFSELSTGY

>ACR43474.1 Allergen Cra c 2; arginine kinase [*Crangon crangon*]

MVDAEVLEKLEAGYKLEAATDCKSLLKYLTKVDFDELKTKKTALGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQSDKHPGKDFGDLEKFNVDPEGTFV
VSTRVRCGRSMEGYFPNCLTEAQYKEMESKVSSTLSSLEGELKGTYYPLTGMSKDVQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANRDKLESV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRMGLTEFQAVKEMQDGIPIKMEKEM

>ACR43475.1 Allergen Cra c 4; sarcoplasmic calcium binding protein [Crangon crangon]
MAYTWDNRVKYVVRMYDIDNNGFLDKNDFECLA VKNTLIECRGEWSAEKYAANQKIMSN
LWNEIAELADFNKDGEVTVEEFKQAVQKHCNGKPFDFPSAFKTFIANQFKTIDVNGDGL
VGVDEYRLDCISRSASFSCIKEIDDAYNLLCTEEDKKAGGINIARYQELYAQFISNPDEKC
NAVYLFGLPEVV

>ACR43476.1 Allergen Cra c 8; triosephosphate isomerase [Crangon crangon]
MSGSRKFFVGGNWKMGDKAAIDGIVDFMKKGPLNPNTTEVVVGCPCYLSYTREKLPAEI
GVAAQNCYKVAKGAFTGEISPAMVKDCGCEWVILGHSERRNVFNPDQLISEKVGHALEA
GLKVIPCIGEKLDERESNRTEEVVFQMKALVPNISDWSRVVIA YEPVWAIGTGKTASPE
QAQDVHAKLRQWL TENVSAEVAESCRIIYGGSVSPSNCAELAKMGDIDGFLVGGASLKP
D FVTIINARG

>ACR43477.1 Allergen Cra c 5; myosin light chain 1 [Crangon crangon]
MAADLSARDVERVKFAFSIYDFEGNGQIDAFYIGDCLRALN LNPTLALIAKLGTEKRKE
KMIKLD DFMPLFAQVKKDKDAGSYEDFIEVLKLYDKAENGTMMYAELEHILLSLGERL
DK AELEPILRECCPPEDDEGLIPFEPFVKLTQLL

>ACR43478.1 Allergen Cra c 6; troponin C [Crangon crangon]
MDSLEPDQIDALKKAFDSFDTENQGFITADTVATILRMMGVKISDKNLAEVIAETDEDGS
GQLEFEFVLDLSSKFLIEEDEEALKAELREAFRIYDKEGQGFITDVLKEILTEIDNKLT
PEDLDGIIIEVDEDGSGTLD FDEFMEMMSG

>ACR77509.1 Allergen Che a 2 pollen allergen [Chenopodium album]
MSWQTYVDDHLMFPIETGNHLTAAAI VGLDGSVWAQSSTFPQLKQEEVKAICNEFDV
PN TLAPTGLFLGGEEKYMVIQGEPGA VIRGKKGPGGVCIKKTNQALVFGIYNPVT
PGQCNMV VEKLG DYLVEQGM

>ACS14052.1 Allergen Per a 7; tropomyosin [Periplaneta americana]
MDAIKKKMAMKLEKDNAMDRALLCEQQARDANLRAEKAE EEARSLQKKTQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAD
DESERARKILES KGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQKIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRL EDEL VHEKEKYKFCDDLDMTFTELVGY

>ACS34771.1 Allergen Sal k 4 pollen allergen [Salsola kali]
MSWQTYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQS ANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMVIQGEAGQVIRGKKGPGGICV KKTGQALIFGIYDEPVT
PGQCNMI VERLGDY LVEQGM

>CAQ72968.1 Allergen Seb m 1; parvalbumin beta [Sebastes marinus]
MALAASLNAADITAALAACSGVDTFKHKDFFGKVGLSAKSADDIKNAFKVIDQDKSGFIE
EEELKLFLQNF SATARALTEAET AFLKAGDSDGDGMIGMDEFAAMVKG

>CAQ72969.1 Allergen Seb m 1; parvalbumin beta [Sebastes marinus]
MAFASVGLKDADIAAALDGCKDAGKFNHKTFFKTCGLSGKSSDEVKKAFAIIDQDISGFI
EEEEELKLFLQTFKAGARALSDAETKEFLKAGDSDGDGKIGADEWAAMVKQ

>CAQ72970.1 Allergen Clu h 1; parvalbumin beta [Clupea harengus]
MALASLLKGADIDAALKACEAKDSFKHKDFFAKIGLATKSAADLKKAFEIIDQDKSGFIE
EEELKLFLQNF KAGARALTD AETKAF LKAGDADGDGMIGVDEF AVMIKP

>CAQ72971.1 Allergen Clu h 1; parvalbumin beta [Clupea harengus]
MAFAGLLSDADIAAALGACTAADTFDHKSFFKKVGLSGKSADDVKKPFYIIDQDKSGFIE
EEELKLFLQNF KAGARALSDKETKAFLAAGDADGDGMIGVDEF AVMVKAR

>CAQ72972.1 Allergen Clu h 1; parvalbumin beta [Clupea harengus]
MAFAAFLKEADITAALGACKGADSFDHKAFFAKVGLKGKSGDELKKAFAEIIDQDKSGFIE
EEELKLFLQNFCKGARALTDGETKKFLKAGDSDNDGKIGIDEFAALINH

>CAZ76054.1 Allergen Tri a 34; glyceraldehyde-3-phosphate-dehydrogenase [Triticum aestivum]
MGKIKIGINGFGRIGRLVARVALQSDDVELVAVNDPFITTEYMTYMFKYDTVHGHWKHSD
IKLKDDKTLLFGEKPVTVFGVRNPEEIPWGEAGADYVVESTGVFTDKDKAA AHLKGGAKK
VVISAPSKDAPMFVGVNEDKYTSDVNIVSNASCTTNCLAPLAKIINDNFGIIEGLMTTV
HAITATQKTVDGPSSKDWRGGRAASFNIIPSSGTAAKAVGKVLPELNGKLTGMSFRVPTV
DVSVDLTVRTEKAASYDDIKKAIKAASEGKLGIMGYVEEDLVSTDFVGDSSSIFDAK

AGIALNDHFVKLVSWYDNEWGYSNRVVDLIRHMAKTQ

>CAZ76052.1 Allergen Tri a 29; alpha amylase inhibitor [*Triticum aestivum*]

TGPYCYAGMGLPINPLEGCREYVAQQTCGISISGSAVSTEPGNTPRDRCCCKELYDASQHC
RCEAVRYFIGRRSDPNSSVLKDLPGCPREPQRDFAKVLVTPGHCVMTVHNAPYCLGLDI
>ACT37324.1 Allergen Sta c 3; exodesoxyribonuclease [*Stachybotrys chartarum*]
ASVTFWTLDNVDRTLVTFTGNPGSAAIETITVGAENTTVEFFPGSWVGNWYAYPTDAEDVP
GMLGEVQFGGWNGLTDFVSAIVNPTDHDNVKQMWPAESRKPMMSGCEVFPDWAYWLPDD
IQTKVTHEVDLWTTLGAGSTGLTF

>CAQ68249.1 Allergen Der p 2 allergen precursor [*Dermatophagoides pteronyssinus*]

DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDNGVLACA
IATHAKIRD

>CAQ68250.1 Allergen Der p 1 allergen precursor [*Dermatophagoides pteronyssinus*]

RPSSIKTFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCGNDTIPRGIEYIQHNGVVQESYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTHIQ
RDNGYQPNYHAVNIVGYSNAQGVYDWWVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>ACV04796.1 Allergen Api g 2; lipid transfer protein (LTP) type 1 [*Apium graveolens*]

MGVSKVAIAVAVMLMVVINHPAVVEGLTCGQVTGKLGGLGYLKGGGYPSACCGGVKG
LNSLAKTPADRKQACACLKTLAGSVKGINYGAASALPGKCGIRIPYPISTDCSRVN

>BAD74060.2 Allergen group 2 allergen [*Dermatophagoides farinae*]

MISKILCLSLVA AVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDA
NQNTKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHGKIRD

>ACV04860.1 Putative glutathione S-transferase Blo t 8 isoform [*Blomia tropicalis*]

MAPLKIGYWDVRGFAEPIRMLLKHLNIEFEETRYGFGNDSEESLPNRDEWLAEKFTLGLE
FPNLPLYLFDGDFKMTESVAILKRLARANGMIATTEPALSYSEMIEAMIIDIRNRLINVVY
AENSGTPEEFQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
VFKSTPIFEKFAKVS DYMKRFEELPSLKEYIARDEHRSASCLSPFARIGHRWAKE

>ACY01951.1 Putative putative Cup a 4 allergen [*Cupressus arizonica*]

MDEVPSDES KSASSGKRVLEQSVHELEEVFKKFDANGDGKISGSELADILRSMGSEVDE
AEVKAMMEEADTDGDGYVSLQEFVDLNIKGATVKDLKNAFKVDRDCNGTISP AELCETL
KSVGEPCTIEESKNIIHNVDKNGDGLINVEEFQTMMTSEM TDKSK

>ACY38525.1 Putative allergen Can f 4 precursor [*Canis lupus familiaris*]

MKILLLCLALVLASDAQPLPNVLTQVSGPWKTLYISSNLDKIGDNGPFRIYMRGINVD
IPRLKMSFNFYVKVDGECVENS VGASIGRDNLIKGEYNGGNYFRIIDMTPNALIGYDVNV
DSKGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIYLGD TDNCPNHE

>ACY40650.1 Putative allergen Bla g 3 isoform 1 precursor [*Blattella germanica*]

IPADKVFLRKQWDVLRVLVHRIHQHSIPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVKRGE PFSTYYIKHREQAIMLFELFYANDYDTFYKTACWARDRVNEG MFLYSFNIA
IMHREDMQDIVIPAFYEIYPFLFVENDVIQKAYDYKMKESGHLNPHTHVIPVNFTLRNQ
EQLLSYFTEDVFLNAFN TYFRYMYPTWFNYTKYEYDVPRHGEQFYFYQQIYARYMLERY
SNDMPDIKPFTYNKAFKTPYNPQLRYPNGQEV PARPAYMVPQDFDLYYVSDIKNYERRVA
DAIDFGYVFCDKMISHSLYNDKKGFEMLA EIIEGNSMHPDYYGHIFHMYRSL LGHVTDPF
HKNGEAPSALEHPETALRDPAFYQIWKRVQHYFYKFQMKLPYYTREELTFDGVKIDNVDV
GKLYTYFEPYEMSLGYSVKVENIQDAANVDIRARNYRLNHKPFTYNIEVTSEKETPVYVR
VFLGPKYNYYGHEYDLNERRNKFVEIDRFPYQLHAGKNAIERN SHESTVVAKEQDTPKVL
YKKVNEAYEGKATYNYDKQTKFCGLPEHLLIPKGKGGQAFTVYVIVTPYDKAVEKEEHH
FKAYS YCGVPHDTPDDKPLGFPDRPIHSYDFVTPNMF MKDV FIFHKKYEEVEQH

>ACY40651.1 Putative allergen Bla g 3 isoform 2 precursor [*Blattella germanica*]

IPADKVFLRKQWDVLRVLVHRIHQHSIPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVKRGE PFSTYYIKHREQAIMLFELFYANDYDTFYKTACWARDRVNEG MFLYSFNIA

IMHREDMQDIVVPAFYEIYPFLFVENDVIQKAYDYKMKESGHLNPHTHVIPVNFTLRNQ
EQLLSYFTEDVFLNAFNTRYFRYMYPTWFNYTKYEYDVPRHGEQFYFYNQQMFARYMLERY
SNDMPEIQPFTYTKPFKTPYNPQLRYPNGQEVPARPAYMMPQDFDLMYVSDIKNYEKRVA
DAVDFGYVFCDKMISHSLYNNEKGLEWLGQIVEGNSMHPDFYGHIFHMYRSLLGHITDPF
HKHGVAPSALEHPETSLRDPAFYQIWKRVQH YFNKFQMKQPYTREELAFDGVKIDNVDV
GKLYTYFEPYEMGLSNAVKVGKLEDVPNVDIRARNYRLNHKPFYTNVEVTSEKDTPVYVR
VFLGPKYNYYGHEYDLNERRNYFVEIDRFYQLHTGKNTIQRNSHDSSVVAQEODTYKVL
YKKVNEAYEGKTTYTYEKQDKYCGLPEHLLIPKGGKGGQAFTVYVIVTPYDKAVEKEEHH
FKAYSYCGVGPVHDSVYDKKPLGFPDRPIHSYDFVTPNMFMKDVFIHKKYEEVEQH

>ACY91851.1 Allergen beta-1,3-glucanase form 'RRII Gln 2' [Hevea brasiliensis]

MAICSSTSGTSSSLPSRTTVMLLFFFTASVGITDAQVGVVCYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILDLTVGNSY
PPSAGAFRDDVRSYLNPIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVSESGWPSAGAFATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYL FAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>ACZ57582.1 Allergen Ole e 11; pectin methylesterase [Olea europaea]

MSCIAVEAVLLGILLYIPIVLSDDRAPIPSNSAQLNSWFDGIIQPVAVRKATMDPALVTA
EGQTKVIKLSGSGDFKSINEAIKSIPDDNTRVILSLAPGNYSEKVKIGMYKHYITFY
GEDPNNMPILVFGGTAAEYGTVDSATLIVESNYFSAVNLKIVNSAPRPDGKRVGAQAAAL
RISGDKASFYNVKIYGFQDTLCCDKGKHFYKDCYIEGTVDVFIFGSGKSIFLNTLHAVPG
DQPAIITAQARKTDESDTGYFVNCRVTTGGGAFLGRSWMPAAKVVFA YTEMVDAIHPEGW
ILVKPEHESTVRFSEYNNKGPANMEKRAKFKVRLSDAEAKQSI SLGSIEASKWLLPPRV
VGLP

>ACZ74626.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]

MAMLSSTSRITGSLLSRTPVMLLLILYIASLGITDAQVGVVCYGKLGNNLPPASEVIALYK
QSNIKRMRIYDPNQEV LQALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRDFWSSV
RLRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILDLTLMGNTY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTTPKRPDRAIETYL FAMFDENQKQPEVEKHFGLFFPKRPKYNLNFSAKKNWDIS
TEHNATVFLKSDM

>ACZ95445.1 Putative Ani s 10 allergen precursor [Anisakis simplex]

MHLITALVLLLQLIHFITSSPIPQEVVGGPGPVVGGSGIGNVWEKANEQA AEQQNIGGPG
PVISGSGIGDVWNKANEPAEQQENIGGPGPVVSGSGIGNVWEKANEQA AHQQSIEGPGPV
VSGSGIGNVWEKANEQA AHQQSIEGPGPVVSGSGIGDVWNKANEA AEQQNIGGPGPVIS
GSGIGNVWEKANEQA AEQQNIGVGGPGPVKSGSGIGNVWEETNEEA ASMQA

>CAM31908.1 Allergen Act c 8; pathogenesis related protein / PR-10 / Bet v 1-like protein [Actinidia chinensis]

MGVVTYDMEIPSKVPPVKLYKAFILDGDTLVPKVLPHAIKCVKILEGDGCAGTIKEVTFG
EGSHHKCVKQRVDAIDKDNLTYSYTIIEGDVLA EK FESISYHIKIVACPDGGSICKNRSI
YTTKGDCVSEEEIKLGKEKAAEIFKALEAYLLANPDYC

>CAM31909.1 Allergen Act d 8; pathogenesis related protein / PR-10 / Bet v 1-like protein [Actinidia deliciosa]

MGAITYDMEIPSSISAEKMFKAFLVDGDTIIPKALPHAITGVQTLEGGVGTIKLTTFG
EGSVHKS VKHRIDGLDKENFTYSYSIIEGGALDV FESISYHIKIVATPDGGCICKNRSIY
TPKCDAQVSEEEIKAGKERASGIFKKVEAYLLANPDC

>CBA13559.1 Allergen Tri a 29; alpha amylase inhibitor [Triticum aestivum]

TGPYCYPGMGLPSNPLEGCREYVAQQTCGVGIVGSPVSTEPGNTPRDRCKELYDASQHC
WCEAVRYFIGRTSDPNSGVLKDLPGCPREPQRDS AKVLVTPGHCNVMTVHNTPYCLGLDI

>CBA13560.1 Allergen Tri a 15; alpha amylase inhibitor [Triticum aestivum]

SGPWSWCDPATGYKVSALTGCRAMVKLQCVGSQVPEAVLRDCCQQLADVNNNEWCRCEDLS
SMLRSVYQELGAREGKEVLPGCRKEVMKLTAA SVPEVRKVPIPNPSGDRAGVCYWAAYPD
V

>CAY54134.1 Allergen Tri a 21; alpha/beta gliadin [Triticum aestivum]

VRVPVPLQLPQNPSQQQPQEQVPLVQQQQFLGQQQQHFPGQQQPFPQQPYQPQPFLPQ
LPYPQPQFPQQSYQPQPQYPQPQQPISQQQAQLQQQQQQQQQQILQQILQQQLPCR
DVVLQQPNIAHASSQVSQQSYQLLQQCCQQLWQTPEQSRCQAIHNVIHAILHHQQQQQ
QQQQQQQQQQQQQQQQQQQQQQPSSQVSYQQPQQQYPSGQGSFQPSQQNPQAQGFVQPQ
QLPQFEEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFSTN

>3FT1_A Allergen Chain A, Crystal Structure Of Pollen Allergen Phl P 3 [Phleum pratense]
AVQVTFVQKGSQDPKLVLDIKYTRPGDSLAEVELRQHGSEWEPLTKKGNVWEVKSSKP
LVGPFNFRFMSKGGMRNVFDEVIPTAFSIGKTYKPEEQEF

>ADB92492.1 Allergen major allergen Cr-P11 [Periplaneta americana]
MKLPIMILAVLGVAFGKSLPTRNLQDDLNDLFLALVPTDEIVAIVMDYLANDAEVQEA VAY
LQGDEFHKIVSTVEGLQEFTNFVQFLEDHGLDAVGYINQLHSVLGWDPYVPPSQRKHARR
GVGVDGLIDDIIAILPDDLKALFQEKLETSPDFKAFYDAIRSPEFQSIVQTLNAMPEYQ
ELLQKLRDKGVDVDHYIELIRALFGLSRATRNLQDDLNDLFLALIPTDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIITVEGLDAFNNFYFMKEHGLDVVDYINEIHSIIGLPPFV
PTRRHARRGVINGLIDDVAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLKRDGVDVDHFIELIRSLFGLP

>ADB92493.1 Allergen major allergen Cr-P1 [Periplaneta americana]
MKTALVFAAVVALVACAAPAHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVG
NTYDIEANIGNYKYPRVVKQFMA YFKKGM LPRGEPFSVYFEKHREQAIMLYNLFYFANDY
DTFYKTACWARDRVNEGFMFYSFSAVFHRDDMQGVM LPPPVEVYPYLFVDHDVIHMAQK
YWMKNAGSNEHHSYVIPVNFTLKNQDQLLA YFTSDVNLNAFNNTYRYYYPSWYNTTLYGH
TIDRRGEQFYTYKQIYARYFLERLSNDLPDVYPFYYSKPVKSAYNPNLRYHNGEEMPVR
PSNLVVTNFDLYYIADIKNYEKRVEDAIDFGYVFDEHVKPHSLYHDVHGM EYVADMIEGN
MDSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSALEHPETVLRDPAFYQLWKRVDHLF
QKYKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDVS LDM SVYV NKVDQIPNVDVHA
RQYRLNHKPTYNIEVSSDKAQDVYVRVFLGPKYDYL GREYDLNDRRH YFVEMDRFP HHV
EAGKTVIERNSHDSNIVAPERDSYRTFYKKVQEA YEGKSQYYVDKGHNYCGYPENLLIPK
GKKGGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSNRKYPDN MPLGYPFDRKIYS
NDFYTPNMYFKDVIFHKKYDEVGVQGH

>ADB96066.1 Allergen profilin [Arachis hypogaea]
MSWQTYVDNHLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEPSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGPGGVTIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDTGL

>CBJ24286.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFVLA FSEIASVKGKLC EKPSTW SGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFYFDCDPTKNP GPPGAPK GKAPAPSPPSGGGAPPSPGGEGGDGPPPPEGGEG
GGDGGGEGGGEGGGDGGGEGGGEGGGDGGGEGGGEGGGGER

>CAX32965.1 Allergen Sco s 1; parvalbumin beta [Scomber scombrus]
MAFASVLKDAEITAALDGCKAAGSFDHKKFFKACGLSGKSADEVKKAFAIIDQDKSGYIE
EELKLFLQNFKAGARALSDAETKAFLKAGDSGDGKIGVDEFAAMIKG

>CAX32966.1 Putative parvalbumin [Salvelinus fontinalis]
MACAHLCKEADIKTALEACKAADS FNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFCPKARVLTDAETKAFLKAGDADGDGMIGIDEFAVWVKQ

>CAX32967.1 Putative parvalbumin [Salvelinus fontinalis]
MAFAGLNDADVAAALAACTAADS FNHKAFFAKVGLAGKSNDDVKKAFYVIDQDKSGFIEE
DELKLFLQNFSASARALTAETKAFLADGDKDGDGMIGVDEFAAMIKG

>P86431.1 Allergen Onc m 1; parvalbumin beta [Oncorhynchus mykiss]
ACAHLCKEADLKTAL EACKAADS FNFKTFFHTLGFASKXXDDVKKXXXVLDQDASGFLEV
EELKLFLQNFCPKXXXLTAETKAFLKAGDADGDGMLGLDEFAVLVKQ

>P86432.1 Allergen Onc m 1; parvalbumin beta [Oncorhynchus mykiss]
SFAGLNDADVAAALAACTAADS FNHKAFFAKXXXXXXXXSPDDLKXXXXXXXXLDQDKSGFLEED
ELKLFLQNFSASARALTAETKXXXXXXXXAGDADGDGMLGLDEFAVLVKQ

>P85894.1 Allergen RecName: Full=Non-specific lipid-transfer protein 1; Short=LTP 1; AltName: Allergen=Mor n 3
[Morus nigra]

SPNEKYEVNKWIKNGMEYH

>ADD19989.1 Putative salivary antigen 5 precursor variant [Glossina morsitans morsitans]
MNFVLATLSLLILGSAAVGGDYCGLCDNHVACVMQNVFQSGCPSGAKMIDLNKYQSALLD
AHNKKRNHVAGGGESKLKRACQMATMKWDESELAKLAEYNVKLIEKAVDKWYEEVKDCNQG
YIDSYPMNYRGAIGHFTVMVAERNTHVGAASEYTKSNGFQYFLMACNYATTNMMEFPI
YKSCGSSAQDCKSGKNSKYPNLCSPNEKYEVNKWIKNGVEYH

>ADD74392.1 Putative Sol s 2 allergen [Solenopsis saevissima]
MKTFFVLVSCLLVFTQIIYALDIKEISIMNRILEKCIRTVPKHENDPINPLRNVNVWYCAF
TKRGIFTPKGVNTKQYINYCEKTAISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKGLLELTVYGKKK

>CAX62602.1 Allergen aldolase A [Thunnus albacares]
MTHQFPSLSPEQKKELSDIAQRIVAPGKGILAADESTGTMGKRLQKINVENNEENRRYFR
DLLFSSDASISNCVGGVIFFHETLYQKADSGKLFQVIKDKGIVVGIKVDKGTAGLNGTD
GETTTQGLDGLSERCAQYKKDGCDFAKWRCVLKISDGCPSALGIAENANVLARYASICQQ
NGLVPIVEPEILPDGEHDLLRCQYVTEKVLAAVYKALSDHHVYLEGTLLKPNMVTAGHSC
TKKYTPQEVAMATVTALRRTPAAVPGICFLSGGQSEEEASLNLNAINQVPLHRPWKLT
SYGRALQASALAAWQGAANKTAAQEAFCNRAKINGLAAKGEYKPSGSADKASMQSLYTA
SYVY

>CBK52317.1 Allergen Amb a 4; defensin-like protein linked to polyproline-rich region [Ambrosia artemisiifolia]
MAAGLLVFLAISEIASVKGKLCCKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFCYFDCDPTKNPGRPPGAPKGGKAPAPSPSSGGGAPPPSGGEGGDGPPPPEGGEG
GGDGGGGEGGGEGGGDGGGEGGGEGGGDGGGGEGGGEGGGEGGGGER

>CBK62693.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFLAISEIASVKGKLCCKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFCYFDCDPTKNPGRPPGAPKGGKAPAPSPSSGGGAPPPSGGEGGER

>CBK62694.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
KLCEKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKRDSKATCFCYFDCDPTKNPGR
PPGAPKGGKAPAPSPSSGGGAPPPSGGEGGDGPPPPEGGEGGGDGGGGEGGGDGGGGEGGGEG
GGDGGGGDGGGGEGGGEGGGGER

>CBK62695.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
KLCEKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKRDSKASCFCYFDCDPTKNPGR
PPGAPKGGKAPAPSPSSGGGAPPPSGGEGGGDGGGGEGGGEGGGGGEGGGEGGGGGEGGGEG
GGGGEGGGEGGGGER

>CBK62697.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
KLCEKPSVTWSGNKVKQTDKCDKRCIEWEGAKHGACHKRDSKASCFCYFDCDPTKNPGR
PGAPKGGKAPAPSPSSGGGAPPPSGGEGGGDGGGGRR

>CBK62698.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFLAISEIASVKGKLCCKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNPGRPPGAPKGGKAPAPSPSSGGGGEGGGEGGGGER

>CBK62699.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFLAISEIASVKGKLCCKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNPGRPPGAPKGVVKEVVVEGGEGGGGGEGGGEGGGGER

>BAI94503.1 Putative pollen allergen CJP-8 [Cryptomeria japonica]
MAMRMKSSSMSSYRFSYQMMMLVLMVMTLVQIGAAQSDTNSCVNSLVPCASYLNATTKPP
DSCCVPLLNVIQTQQQCLCNLLNSSIVKQSSINITQALNIPRLCGDTNVSTDACSTNATA
NAPSASTTPSVPADTGDSSGIGATSLQIFLPLLAFFLVFKSFP

>BAJ04354.1 Putative pollen allergen CPA63 [Cryptomeria japonica]
MARRLCSFLLSFLIIVSVWAENSKFARLNLASFTWKDAEDNKNCSAGELETSSLSVMHIQ
GKCSFRLNNSWWTAVSESIKGTARYRAMVKGGWSAGKTMVNPQEDADIPLASGQAIS
SSNYIIKLGFPTPPQSFYTVLDTGSNIAWIPCNPCSGCSSKQPFEPKSSSTYNLTCAS
QQCQLLRVCTKSDNSVNCSLTQRYGDQSEVDEILSSETLSVGSQQVENFVFGCSNAARGL
IQRTPSLVGFGRNPLSFVSQTATLYDSTFSYCLPSLFSSAFTGSLLLGKEALSAQGLKFT
PLLSNSRYPSPFYVGLNGISVGEELVSIPAGTSLDESTGRGTIISGTVITRLVEPAYN
AMRDSFRSQLSNLTMASPTDLFDTCYNRPSGDVEFPLITLHFDDNLDLTLPLDNILYPGN

DDGSVLCLAFGLPPGGDDVLSTFGNYQQKLRIVHDVAESRLGIASENC DG

>ADE74975.1 Allergen Asp v 13; alkaline serine protease [*Aspergillus versicolor*]

MYSIKRTILLGALLPAVFGAPILEARRQTEKVP GK YIVTFKSGLQAEQIDAHTTWASNV
HKRNLERDLTDRDLYPGIEKNFKIHKFAAYVGSFDDATIEEIRNHKDV AHVEEDQVWYL
DALTTQSDAPWGLGAISHQGDASSDIYDTSAGADTYAYVVD TGINVDHSEFDGRASLAY
NAAGGQHVDSVGHGTHVAGTIGGKTFGVSKKANLLSVKVFEGESSSTSIILDGYNWAAND
IVSKSRTGKSAINLSLGGGYSYAFSNAVESAFDEGVLSVVAAGNENV DASNTSPASAPNA
LTVAASTERNARASFSNYGEVVDIFAPGEDILSAWIGGNSATNTISGTSMATPHIVGLSL
YLIALEGLSSPGDVTSRIKELATQGALSGVSGSPNALAYNGAE

>BAJ07603.1 Allergen Onc k 5; vitellogenin / partial [*Oncorhynchus keta*]

SMTDLSPFDDNIVN KIH YLFSEVNAVKCSMVGDTL TTFN NRKY PVNMPLSCYQVLAQDCT
IELKFMVLLKKDHASEQNHNINVKISDIDVDLYTEDHGVMVKVNEMEISKDNLPYTDPSGS
IMIKQKGEVSLYAKSHGLQEVYFDSNSWKIKVVDWMKGGQTCGLCGKADGEHRQEYRTPS
GRLTKSSVSFAHS

>ADH10372.1 Allergen Cof a 1; chitinase (class III) [*Coffea arabica*]

AGIVRYWGRGHDEPSSLAEFGRQEFATDVNIAFLED FGGGRMPELNISHPLPSASDIEYC
QKHQTKVFISIAGQPSLSSVEDAEVAA YVWNTYLGGKSSDRPFGKAVLDGVELHIHSGN
TTYLDDLARALKGYSNVISAVAAECPIPDALDTTIRTGVVDQVRVEFFDNPSCQFTPPK
DTSLLFPSWDNWS DYPGVHKL YLGIPISTIAPEGGYIPP NELVYHVLPYLKKSPVYGGI
MVFPYLHHEVNFQSM LRSYARAA

>ADK22841.1 Allergen Sal k 4.02 [*Salsola kali*]

MSWQAYVDEHLMCNIEDTGNHLTSSAIVGV DGS IWAQSSNFPQVKPQEIEAINKEFDGPN
TLAPTGLFLGGEKYMVIQGEPGA VIRGKKGPGGVCIKKTTQALIFGIYDEPVAPGQCNMV
VERLDY LIEQGL

>ADK22842.1 Putative Sal k 5, partial [*Salsola kali*]

KGKGGHNL YHVKGMVYCDTCRIQFITRVSTMMEGATVSLQCRNLTAGTETFKAEAVTDKL
GMYTIKVDGDHEDDICQIVLVKSPGQECSEIPNDVYSEQA AKVTLTSNNGEASDVRNANA
LGFLKKAPLPECPEVLKELDMYDVPGSVTQN

>ADK27483.1 Allergen Pen ch 35; aldolase [*Penicillium chrysogenum*]

MSSSLEQLKASGTTVVCD S GDFATIGKYKPQDATTNPSLILAASKKPEY AALIDTAVAYG
KQNGKTLDEQVEATLDRLLV EFGKEILKIIPGKVSTEVD AKLSFDTQGSVNKALEIIKLY
ADNGISKDRVLIKIASTYEGIKAAHILQTQHGINCNLTLMFSLVQAIAAAEAGAYLISPF
VGRILDWYKAAHKRDYTPQEDPGVKSVDIYNYYK KFGYNTIVMGASFRNVGEITELAGC
DYLTISPNLLEDLFNSTDA VPQKLN PAGAASLEIKKREYLNNEADFRFD FNEEAMGVEKL
REGISKFAADAVTLKQLLAQKIQA

>ADK39021.1 Allergen Ost c 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [*Ostrya carpinifolia*]

MGVFNYEAETPSVIP AARLFKSYVLDGDKLIPKVAPQAISKVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVNAEEMKGAKEMA EKL LRAVESYLLAHTAEYN

>ADK47394.1 Allergen Cla c 14; aldolase [*Cladosporium cladosporioides*]

MSSSLDQLKASGTTVVCD S GDFATIGKYKPQDATTNPSLILAASKKPEY AKLIDDAVAYG
MKHGKTTEEKIDATFDNLLVQFGSEILKIVPGKVSTEVDARFSFDKDVSIQKALRIIDLY
KEAGIDKERVLIKLASTWEGIQAAHELQTKHGINCNLTLMFSLPQAIAAAEAGAYLISPF
VGRILDWYKANTKQEYNASNDPGVKSVDIFNYK KYDYKTIVMGASFRNIGEITELAGC
DYLTIPALLEQLYNSTDA VPQKLKAEDVAKLDIEKSYLKDEALFRFD FNEEDPMAVNKL
SEGISKFAADAVTLKDILREKIEKA

>ADK47876.1 Putative Tha p 1 allergen [*Thaumatococcus panyocampa*]

MKLLLAL TCAA AVWARPGETYSDKYDTIDVNEVLQSERLLKGYVECLLDKGRCTPDGKE
LKDTLPDALEHECSKCTEKQKSGADTVIRHLV NKRPELWKELAVKYDPENIYQERYKDRL
ESVKEH

>ADK56160.1 Putative Fel d 7 allergen precursor [*Felis catus*]

MKALLAVGLSLITVLQAQDPPASGEDTMAMSGK WYLKAMITDRETSWKKPELVTPMTLT
VLEGGNLKAETTLLTNGQC KEVELILEKTSEPKKYTTYGGKR VVYIEPTEVKDHYIFYCE
GEMQGEQARMAKLVGRDPESNEEALENFREFLRAKGFNQE IFS PKQSDTCPPGTDQEPEV

>ADK92390.1 Putative Der p 13 allergen [Dermatophagoides pteronyssinus]

MASIEGKYKLEKSEKFDEFDLKLGVMVKTA AKTLKPTFEVAKENDQYVFRSLSTFKNT
EIKFKLGEEFEEDRADGKRVKTVINKDGDNKFVQTQFGDKEVKIVREFNGDEVVVTASCD
GVTSVRTYKRI

>CBW30986.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]

MGIKHCCYILYFTLALVTLQPVRS AEDLQEILPVNETRRLTTS GAYNIIDGCWRGKADW
AENRKALADCAQGF GKTGVGGKDGDIYTVTSDLDDDDVANPKEGTLRFGAAQNRPLWIIFE
RDMVIRLDKEMVVNSDKTIDGRGAKVEIINAGFTLNGVKNVIIHNINMHDVKVNP GGLIK
SNDGPAAPRAGSDGDAISISGSSQIWI DHCSLSKSDGLVDAKLGTTTRLTVSNLFTQHQ
FVLLFGAGDENIEDRGLATVAFNTFTDNVDQRMPCRHRGFFQVVNNNYDKWGSYAIGGS
ASPTILSQGNRFCAPDERSKKNVLGRHGEEAAESMKWNWRTNKDVL ENGAIFVASGVDPV
LTPEQSAGMIPAEPGESALSTSSAGVLS CQPGAPC

>CBW30987.1 Allergen Amb a 1; pectate lyase [Ambrosia artemisiifolia]

MGIKHCCYILYFTLALVTLQPVRS AEDVEEFLPSANETRRLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGF AKGTYGGKHGDVYTVTSDKDDDDVANPKEGTLRFAAAQNRPLWII
FKRNMVIHLNQELVVNSDKTIDGRGVKNIVNAGL TLMNVKNIIHNINIHDIKVC PGGM
IKSNDGPPILRQ QSDGDAINVAGSSQIWI DHCSLSKASDGLLDITLGSSHVTVSNCKFTQ
HQFVLLLGADDTHVQDKGMLATVAFNMFTDHVDQRMPCRFRGFFQVVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDIIKKNVLARTGTGNAESMSWNWRTDKDLENGAIFLPSGSD
PVLTPVQSAGMIPAEPGEAVLRLTSSAGVLS CHQGAPC

>CBW30988.1 Allergen Amb a 1; pectate lyase [Ambrosia artemisiifolia]

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGF AKGTYGGKWGDVYTVTSNLDDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGL TLMNVKNIIHNINIHDKVLP GGM
KSNDGPPILRQASDGD TINVAGSSQIWI DHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRS DKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>CBW30989.1 Allergen Amb a 1; pectate lyase [Ambrosia artemisiifolia]

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGF AKGTYGGKWGDVYTVTSNLDDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGL TLMNVKNIIHNINIHDKVLP GGM
KSNDGPPILRQASDGD TINVAGSSQIWI DHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRS DKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>CBW30990.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGF AKGTYGGKWGDVYTVTSNLDDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGL TLMNVKNIIHNINIHDKVLP GGM
KSNDGPPIFRQASDGD TINVAGSSQIWI DHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKNVLARTGTGVAESMAWNWRS DKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>CBW30991.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGF AKGTYGGKWGDVYTVTSNLDDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGL TLMNVKNIIHNINIHDKVLP GGM
KSNDGPPILRQASDGD TINVAGSSQIWI DHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKNVLARTGTGVAESMAWNWRS DKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>CBW30992.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD

WENNRQALADCAQGFAKGTGGKWDVYTVTSNLDDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIHNINIHDVKVLPGGMI
KSNDGPPILRQASDGTINVAGSSQIWDHCSLSKSFGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHTVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKNVLARTGTGVAESMAWNWRSKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSRPGAPC

>CBW30993.1 Allergen Amb a 1; pectate lyase [Ambrosia artemisiifolia]

CCYILYFTLALVILLQPVRSAEDLQQILPSVNETRSLTTCGTYNIIDGCWRGKADWAENR
KALADCAQGFAKGTIGGKDGDIYTVTSELDDDDVANPKEGTLRFGAAQNRPLWIIFARDMV
IRLDRELAINNDKTIDGRGAKVEIINAGFAIYNVKNIIHNIMHDIVVNPGLIKCNDG
PPAPRKGSDGDAIGISGGSQIWDHCSLSKA VDGLIDAKHGSTHFTVSNCLFTQHQYLLL
FWDFDERGMLCTVAFNKFTDNVDQRMPLNRHGQVQVVNNNYERWGSYALGGSAGPTILSQ
GNRFLASDIKKEVVGRYGESAMSEINWNWRSYMDVFENGAIFVPSGVDPVLTPEQNAGM
IPAEPGEAVLRLTSSAGVLSRPGAPC

>CBW30994.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]

MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFQKATHGGKWDIYMTSDQDDDDVNPKEGTLRFGATQDRPLWIIF
QRDMIIYLQQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWDHCTLSKSFGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSGAPC

>CBW30995.1 Allergen Amb a 1; pectate lyase [Ambrosia artemisiifolia]

MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFQKATHGGKWDIYMTSDQDDDDVNPKEGTLRFGATQDRPLWIIF
QRDMIIYLQQEMVVTSDTTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDVWDHCTLSKSFGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSGAPC

>ADL09135.1 Putative hyaluronidase precursor [Polybia paulista]

SWVEFALSERPKRVFNIYWNVPTFMCHQYGINFDEVTDFNIKHNSKDNFRGETLAIYYDP
GNFPALIPVNNGKYKERNGGVPQRGNITIHLLQQFNEDLDKMTDPKSFSGGIGVIDFERWRP
VFRQNWGNTEIHKEYSIELVRKEHPKWSKSMIEAEATKKFEKYARYFMEETLKLAKKTRK
RAKWGYYGFPYCYNASPNNPGPSCDAKAIENDRMSWMYNNQEILLPSVYVRHKQDPEER
IYLQGRVKEAVRVSNNLEHSPSVLPYWWYVYQDEMEIFLSETDVKKTFQEIVTNGGDI
IHWGSSSDVNSLSKCKRLREYLLNTLGPVAVNVTTETVNRSSLNF

>ADL32660.1 Allergen Dau c 1; pathogenesis-related protein /PR-10 /Bet v 1 -like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKGDGGVGTIKHITLPD
GGPVTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTMLFKAVEAYLIAN

>ADL32661.1 Allergen PRP-like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKGDGGVGTIKHITLPD
GGPVTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDAVVPEENIKYAEQNTLLFKAVEAYLIAN

>ADL32662.1 Allergen PRP-like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTMTLRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTMLFKAVEAYLIAN

>ADL32663.1 Allergen PRP-like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTMTLRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDAVVPEENIKFAEAQNTMLFKAVEAYLIAN

>ADL32664.1 Allergen PRP-like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTQRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDAAVPEENIKYAEAQNTMLFKAVEAYLIAN

>ADL32665.1 Allergen PRP-like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFTIDYSVIDGDVLLGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDAAVPEENIKYAEQNTMLFKAVEAYLIAN

>ADL32666.1 Allergen PRP-like protein [Daucus carota]

MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDAAVPEENIKYAEQNTMLFKAVEAYLIAN

>P86687.1 Allergen Poly p 2; hyaluronidase [Polybia paulista]

GETISIYDYPGKFPALMPLKNGNYEERNGGVPQRGNITHLQQFNEDLDKMTDPKNFGGI
GVIDFERWKPIFRQNWGNTEIHKKYSIELVRYEHPKWSSESMIEAEATKKFEKYARLFMEE
TLKLAKKTRKRAKWGYYGFPYCYNYTPNPGPDCDAKAMIENDRLSWMYNNQEILFPSVY
VRHELTPDQRVYLVQGRIKEAVRISNNLKHSPKVLVSYWWYVYQDKMDIFLSETDVKKTFQ
EIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNLTLPFAVNVVTETVN

>P86686.1 Allergen Poly p 5; unknown/antigen 5 [Polybia paulista]

NKYCNKCSKVAHTVCQTGESTKPSKNC AKVSITSVGVTEEEKKLIVDEHNRFRQKVAQ
GLETRGNPGPQPAASDMNNLVWNDELA YIAQVWASQCQFFVHDKCRNTAQYQVGQNIAYS
ASTAAYPGVVKLIVLWENEVKDFNYNTGITKENFAKVGHYTVVWAKTKEVGCSSIKYIE
KGMKSHYLVCNYGPAGNVLGAQIYEIK

>XP_003030591.1 Allergen Sch c 1; glucoamylase [Schizophyllum commune H4-8]

MGLASTVSLALLGLCSLARAQTSAADAYVSAESPIAQAGILANIGPSGSKSHGAASGVII
ASPSTSNPDYLYTWTRDAALVSRALVDEFIEGESSLQSVDSYVSSQQLQRVDNPSGSY
TSGGLGEPKFNIDLTAFTGAWGRPQRDGPALRAITLITYGNHLLSSGNTSYVTDTIWPVV
KADLDYVVS YWNQTGFDLWEEVSSSSFFTTAEQHTALRLGATFATAVGASASTYLTQADN
VLCFLQSYWNSNGGYATANTGGGRSGIDANTVLTSIHTFDIEAGCDSVTFQPCSDRALSN
LKVYVDSFRGLYSINPTGATDPILTGRYKEDVYNGNPWYLTTFVAEQLYDALNTWDKL
GSLDVTSTSLAFFKQFDSSITAGTYASSTSEYATL TSAIRNWADGFLEVLADFTPADGGL
TEQIDKSSGNPTS AADLTWSYASAITAFKARGGAIPASWGAAGLTPATCSTGGGGGGSGG
DTVAVTLNVQATTVYGENIYVTGSVNQLANWSPDNAIALNADNYPTWSVTVNLPANTQIE
YKYIRKNNGQVTWESDPNRSITTSASGSFTQNDTWR

>ADM15668.1 Allergen Fel d 8; latherin [Felis catus]

MLKVSSLFILLCGLLASSTQEVLSRVSSHITDAL TQGLLGMNFLPTLQTIDFQGPKDI
FSLVLGHQLTNGEANFMVQMKDLRLFQVFIETSPDFKIDLRMPLAFSIQIKFPALNPYI
FHVRTDMKVQLYLEKDVDNRYQLTFGHCRIVPETVWIQSGNFITPMKNFIVENIERALGN
VIIHNF GAKMCPFINSWLYNLNPQVTNQLISLLLQHGTYQATVEIPAK

>ADM18345.1 Putative putative Tab y 1 allergen [Tabanus yao]

MAPIIIVPCLLLVVLVLQCSVINSLDYCSLCRGGGEHVGCSPGFSSDCGQKARTRKFTK
EHKKVILDKINDVRDHVAKGSWGLPVASRMKVIVWDEELAALAKRHTQGCVPEAYKCRHT
LRFWSPGQLNFEFYADKMPSTMSLISTAIKRGHTQKHNITRDIIEKYQPAGPKGNVKELA
LAISDRVTA VGCGLTTWKLGGKARALLTCNFSSENDYNRPVYKTGNSPGEKCIKKDETFK
NLCSAQEPINPNEHNF

>ADM18346.1 Putative putative Tab y 2 allergen [Tabanus yao]

MKLHQGLVCLSVLILLPTCILGDRKFEVYWNIPTFMCPDQNKTIMDLNKKHGVIQNTEDL
FRGDKISLLYHPGAFAITRNKTTNTLIYENGGVPQAGNLSLHLKLEKDINEQITDKNF
SGLAVIDFELWRPIFRQNGGSLSDYQNL SLKLEKDLHPEFNEDQLRKEAERRIEKFGRSF
IKQTLIKAKKLRPKAQWGYYAFPYCFNGRRRYVDT CIPSAKIDNDRILYMFENS DVIYPA
VYLQTDLAQKNQTGLVKGRVDEAVRMAKMVKKPAKPPVLVYHRYVFTDTLEYISKENTTA
VFKAMKDNGADGVIIWGSSFDLNSKEKCAKFLDYLRVLPVIDEVKRS

>ADM52184.1 Allergen Der f 1 allergen, partial [Dermatophagoides farinae]

RPASIKTFEEFKKAFNKNYATVEEEVARKNFLESLKYVEANKGAINHLSDSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPS ELDLRLSLRTVTPIRMQGGCGSCWAFSG

VAATESAYLAYRQTSLLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYVAR
EQRCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVIIGIKDLRAFQHYDGRTH
QHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGYGYFQAGNNLMMIEQYPYV
VIM

>ADN39439.1 Allergen class I chitinase isoform 2 [Castanea sativa]

EQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSPTTTTSSPTASGGGGGDVG
SLISASLFDQMLKYRNDPRCKSNFYTYNAFIAAARSFNGFGTTGDVTRKRELAFLAQ
TSHETTGGWATAPDGPYAWGYCFIMENNKQTYCTSKSWPCVFGKQYYGRGPIQLTHNYNY
GQAGKAIGADLINPDLVATNPTISFKTAIWFWMTPQANKPSSHDVIIGNWRPSAADTSA
GRVPSYGVITNIINGGLECGHGSDDRANRIGFYKRYCDTLGVSYGNNLDCYNQKPPFA

>ADN39440.1 Allergen Pru du 6; 11S globulin / legumn-like protein / amandin / prunin [Prunus dulcis]

MAKAFVFSLLCLLVFNGCLAARQSLSQPNQCQLNQLQAREPDNRIQAEAGQIETWNFNQ
EDFQCAGVAASRITIQRNGLHLSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESQSSQ
QGRQQEQEQERQQQQQGEQGRQQGQQEQQERQGRQQGRQQQEEGRQQEQQQGQQGRPQQ
QQQFRQFDRHQKTRRIREGDVVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNP
KFYLAGNPENEFNQQGQSQRQQGEGRPGHQHQPFRPRQQEQQGSNNVFSGFNTQLL
AQALNVNEETARNLQGQNDNRNQIIRVRGNLDFVQPPRGRQEREHEERQQEQQLQQRQQQ
GGQLMANGLEETFCSLRLKENIGNPERADIFSPRAGRISTLNSHNLPLRFLRLSAERGF
FYRNGIYSPHWNVNAHSVVYVIRGNARVQVNVNENGDAILDQEVQQGQLFIVPQNHGVIQQ
AGNQGFYFAFKTEENAFINTLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIA
LSSSQRRRAVV

>ADN39441.1 Allergen Pru du 6; 11S globulin / legumn-like protein / amandin / prunin [Prunus dulcis]

CLLLFNGCLASRQHIFGQNKQWQLNQLQLEAREPDNHIQSEAGVTESWNPSDPQFQLAGVA
VVRRTIEPNGLHLSYSVNAAPQLIYIVRGRGVLGAVFPGCAETFEDSQPQQFQQQQQQQQF
RPSRQEGGQGGQQQFQGEDQQRHQKIRHIREGDIALPAGVAYWSYNNGEQPLVAVSLLD
LNNDQNQLDQVPRRFYLAGNPQDEFNPQQQGRQQQQQQQQGQQGNGNNIFSGFDTQLLAQA
LNVNPETARNLQGQDDNRNEIVRVQGQLDFVSPFSRSAGGRGDQERQQEEQSSQREREK
QREQEQQGGGGQDNGVEETFCSARLSQNIGDPSRADFYNPQGGGRISVVNRNHLPLRYLR
LSAEKGVLYNNAIYTPHWHTNANALVYAIRGNARVQVNVNENGDPILDDEVREGQLFLIPQ
NHAVITQASNEGFEYISFRDENGFTNTLAGRTSVLRALPDEVLQNAFRISRQEARNLKY
NRQESRLLSATSPPRGRLMSILGY

>C7E3T4.1 Allergen RecName: Full=Arginine kinase; Short=AK; AltName: Allergen=Pen m 2 [Penaeus monodon]

MADAAVIEKLEAGFKKLEAATDCKSLLKKYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSPDFPIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPGKYV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGDDLQ
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGILELIKMEKEM

>P86739.1 Putative RecName: Full=Parvalbumin beta 1 [Macrurus magellanicus]

SFAGILDDADITAALAACKAEGSFKHVEFFAKIGLAGKKVFAIIDQDKSDFVEEDELKLF
LQVFSAGARALDAETKAGDSGDGKIGVDEFAQMIKG

>P86745.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius australis australis]

AFAGILADADITAALAACKAEGTFTHGVFFTKIGLKGKSAADIKKVFIIIDQDKSDFVEE
DELKLFQNFSAAGARALDAETATFLKAGDSGDGKIGVDEFAAMVKG

>P86749.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius australis polylepis]

AFAGILADADITAALAACKAEGTFTHGEFFTKIGLKGKSAADIKKVFIIIDQDKSDFVEE
DELKLFQNFSAAGARALDAETATFLKAGDSGDGKIGVDEFAAMVKG

>P86761.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius gayi]

AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFIIIDQDKSDFVEE
DELKLFQNFSAAGARALDAETATFLKAGDSGDGKIGVDEFAAMVKG

>P86768.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius paradoxus]

AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSPADIKKVFIIIDQDKSDFVEE
DELKLFQNFSAAGARALDAETATFLKAGDSGDGKIGVDEFAAMVKG

>P86774.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius productus]

AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTAETATFLKAGDSDGDGKIGVDEFTAMIKG
>P86741.1 Putative RecName: Full=Parvalbumin beta 2 [Macruronus magellanicus]
AFAGILADADCAAALKACEAADSFNKYAFFAKVGLASKSAEEIKKAFFVIDQDKSGFIEE
DELKLFLQNFVAGARALTAETKAFLKAGDSDGDGAIGVDEFAALVKA
>P86750.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius australis polylepis]
AFSGILAEADIAAALKACEAADSFNKYAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTAETKAFLKAGDSDGDGAIGVDEFAVLVKA
>P86752.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius bilinearis]
AFAGILADADIAAALAACKAEGSFKHGEYFAKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTAETATFLKAGDSDGDGKIGVDEFAAMVKG
>P86757.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius capensis]
AFSGILAEADIAAALKACEAAGTFNKYAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDDETKAFLKAGDSDGDGAIGVEEWAALVKA
>P86765.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius merluccius]
AFAGILADADITAALAACKAEGSFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTAETATFLKAGDSDGDGKIGVDEFAAMVKG
>P86769.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius paradoxus]
AFSGILAEADIAAALKACEAAGTFNKYAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDDETKAFLKAGDSDGDGAIGVDEWAALVKA
>P86771.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius polli]
AFSGILAEADIAAALKACEAAGTFNKYAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTAETKAFLKAGDSDGDGAIGVDEWAVLVKA
>P86775.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius productus]
AFSGILAEADIAAALKACAAADTFNKYAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTAETKAFLKAGDSDGDGAIGVDEFAVLVKA
>P86740.1 Putative RecName: Full=Parvalbumin beta 3 [Macruronus magellanicus]
TFFKSNDDVKKAFFVIDQDKSGFIEEDELKLFLQNFSAGARALTAGETKTFLAAGDSDGD
GMIGVDEFQALVKA
>P86742.1 Putative RecName: Full=Parvalbumin beta 3 [Macruronus novaezelandiae]
SFNYKTFFKLAAKSNDDVKKAFFVIDQDKSGFIEEDELKLFLQNFSAGARALTAGETKTF
LAAGDSDGDGMIGVDEFQALVKA
>P86753.1 Putative RecName: Full=Parvalbumin beta 3 [Merluccius bilinearis]
AFSGILADADIAAALKACEAADSFNKYAFFAKVGLSAKSAEDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTAETKAFLKAGDSDGDGAIGVDEFAVLVKA
>P86770.1 Putative RecName: Full=Parvalbumin beta 3 [Merluccius paradoxus]
AFAGVLADADIKAAALAGCAAESFNKYKTFFKACGLAGKFFAIDQDHSFGFIEEDELKLFL
QTFSAGARALSDAETKDVDGDMIGVDEFVALVKA
>P86772.1 Putative RecName: Full=Parvalbumin beta 3 [Merluccius polli]
AFAGVLADADIKAAALAGCAAESFNKYKTFFKFFAIDQDHSFGFIEEELKLFLQTFSAGA
RALSDAETK
>P86754.1 Putative RecName: Full=Parvalbumin beta 4 [Merluccius bilinearis]
AFAGVLADADIKAAALAGCAAADSFNKYKTFFKACGLFFAIDQDHSFGFIEEELKLFLQTF
SAGARALSDAETKTFLAAGDVGDGMIGVDEFAA
>P86760.1 Putative RecName: Full=Parvalbumin beta 4 [Merluccius gayi]
AFAGVLADADIKAAALAGCAAADSFNKYKTFFKFFAIDQDHSFGFIEEELKLFLQTFSAGA
RALSDAETKAFLAAGDSDGDGKIGFVALVKA
>A2V735.1 Putative RecName: Full=Tropomyosin; AltName: Full=Tropomyosin, slow-tonic isoform; Short=Tm-Chio-
tonic [Chionoecetes opilio]
MDAIKKKMAMKLEKDNAMDKADTLEQQNKEANLRAEKTEEEIRANQKKSQVENELDHA
QEQLSAATHKLVEKEKAFANAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>CBW45298.1 Allergen Plo i 2; thioredoxin [*Plodia interpunctella*]

MSIHKDVEDLTLARLTEAGDKLVVIDFMATWCGPCKIIGPKLDEIAAEMADSIVVVKVDV
DECEDIA TEYSINTMPTFVFKNGKPVEQFSGANVEKLRSTILK LK

>ADQ53858.1 Allergen Ara h 1 allergen [*Arachis hypogaea*]

MRGRVSPLMLLLGILVLASVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCKLEYDPRCVYDPRGHTGTTNQRSPPGERTGRGRQPGDYDDRRQPRREEGGRWGPAGP
REREREEDWRQPREDRWRPSHQQRKIRPEGREGEQEWGTPGSHVREETSRRNNPFYFPSR
RFSTRYGNQNGRIRVLQRFDQRSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNNRRALILTRAMHSESHPFHFLHDDMTPELRVAKSHAVNTPGQFEDFFP
ASSRDQSSYLQGFSRNTLEAAFNAAFNEIRRVLLEENAGGEQEERGQRRWSTRSSENEG
VIVEVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLSDNFGRLFEVKPDKKN
PQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVINKGTGNLELVAVRKEQQQRGRREQE
WEEEEDEEEEGSNREVRRYTARLKEGDVFIMPAAHVAINASSELHLLGFGINAENHR
IFLAGDKDNVVDQIEKQAKDLAFPGSGEQVEKLIKQRESHFVSAR PQSQSPSSPEKEDQ
EEENQGGKGPLLSILKAFN

>ADQ53859.1 Allergen Ara h 3 allergen [*Arachis hypogaea*]

MAKLLALS LCFCLVVLGASSVTRQGGREENECQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRNALRRPFYSNAPLEIYVQQSGYFGLIFPGCPSTYEPAQEGR
RYQSQKPSRRFQVGQDDPSQQQDSHQKVHRFDEGLIAVPTGVAFWYND ETDVVTVT
LSDTSSIHNLQDQFRRFYLAGNQEQEFLRYQQQGSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEFLQHAFQVDRQTVENLRGENEREEQGAIVTVKGLRILSPDEEDESRRSPNR
REEFDEDRSRPQQRGKYDENRRGYKNGIEETICSASVKKNLGRSSNPDIYNPQAGSLRSV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVVD SNGNRVYDE
ELQEGHVLVVPQNFAVA AKAQSENYEYLAFKTD SRPSIANQAGENSIIDNLPEEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>CBY17558.1 Putative tropomyosin, allergen Pan b 1 [*Pandalus borealis*]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFGLQKKLQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSD EERMDALENLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSEL SGY

>P0CH89.1 Putative RecName: Full=Hyaluronidase; Short=Hya; AltName: Full=Hyaluronoglucosaminidase; AltName: Allergen=Ves m 2 [*Vespula maculifrons*]

DRCIWPKEGFSIYWNIPTHFCHNFGVYFKEL

>P0CH87.1 Putative RecName: Full=Venom phospholipase A1; AltName: Allergen=Vesp c 1 [*Vespa crabro*]

FNPCPYSDDTVKMIVLTRENKKYDFYTLDTIKNHNEFKDTITL KPHVFITHGFTSSATAE
NFVVMKALLDKGNLVILTDWRMAACTNEIAGLKLAYYPY AASNTRLVGNYIATVTKML
VQKYNVPMANIRLIGHSLGAHISGFAGKKVQELGLGKYPEIIGLDPAGPSFKSND CSQRI
CETDANYVQIIHTSNRLGTERTLGTVD FYMNGYNQPGCGLPIGETCSHTRAVKYFTEC
IKHECCLIGVPKSKNPQPVSKCTRNECVGLNAKTYPKTGSFYVPVESKAPYCNNKGKI
I

>P0CH86.1 Putative RecName: Full=Venom phospholipase A1; AltName: Allergen=Ves s 1 [*Vespula squamosa*]

GSKCPSDDTVAMVIVTRENRRDFYTLQTLRNHDEFKKAITRPVVFITHGFTSSATVE
SFVDLQTAILEXXXXKVTVSDWRVAACNRTTGLLYYVTA VSNTRLVGRYIATVTKKL VTD
YNVSMADIRLIGHSLGAHVSGFAGKEVQKLKLEKYSEIIGLDPAGPSFESNDCAERLCKT
DAHVYVQIIHTSKKFGIEKSIGHVDFYVNQGNQPGCGIPLKDVCSHSRAITYMTECIKR
ECCLIGIPQSKSSKSISSCTRQECVCVGLKAKSYPN TGSFYVPVESTAPFCNNKGKII

>P0CH88.1 Putative RecName: Full=Venom protease; AltName: Allergen=Bom t 4 [*Bombus terrestris*]
VVGKPAKLGAWPVMVALGF

>ADR66939.1 Allergen non-specific lipid transfer protein [*Prunus persica*]

MAYSAMTKLALVVALCMVVSVPVIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>ADR66943.1 Allergen non-specific lipid transfer protein [*Prunus avium*]

MACSAMTKLALVVALCMVVSVPVIAQALTCGQVSSNLAPCIPYVRGGGAVPPACCNGIRNI

NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNVVPYKISPSTNCATVK
>ADR66944.1 Allergen non-specific lipid transfer protein [Prunus avium]
MACSSMTKLALVVALCMVVSVPVIAQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNVVPYKISPSTNCATVK
>ADR66945.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPVIAQAQAITCGQVVSTLAPCINYYKSGGAVPPACCNGIR
TLNGLAKTTADRQAACNRLKQLSGSIPGVNPNNAALPGKCGVNVVPYKISISTNCAAVK
>ADR66946.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPVIAQAITCGQVSNVAPCIPYVIGGGAVPPACCNGIRNV
ENLAKTTADRQAACNCLKQLSGSIPGVNPNNAALPGKCGVNVVPYKISISTNCAAVK
>ADR66947.1 Allergen Pru ar 3; lipid transfer protein (LTP) type 1 [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPVIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAALPGKCGVNIPYKISASTNCATVK
>ADR66948.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPVIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAALPGKCGVNIPYKISISTNCAAVK
>ADR82196.1 Allergen Hev b 14; hevamine [Hevea brasiliensis]
GGIVYWGQNGNEGLTQTCTSTRKYSYVNIAFLNKFNGQTPQINLAGHCNPAAGGCTIV
SNGIRSCQIQGIKVMLSLGGGIGSYTLASQADAKNVADYLWSNFLGGKSSSRPLGDAVLD
GIDFDIEHGSTLYWDDLARYLSAYSQKQGGKVVYLAAPQCPEPDRYLGALNTGLLTMYG
NSITIHASIAQVTLTSLTRGIDGPHL
>ADR82198.1 Putative Per a 2 allergen [Periplaneta americana]
MTFLIQSAFVALAAISAVLDCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPSASCVSGGCNCANVHKYYSNKPVSNNVASVRILGSGYANGSEAHDYIAVSTLNA
TNQGFLADDISNDICSLGADCVIGLGRPKSGRAAFNLPTVMENFVNQDNIANSFSFHG
RYPDGQHRGVLVLGGTIPAYYRGDFTYVPLVDKDTWNFKVDSISVGVNEVVATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTL CVFDCDKLDNVPSVTFTIGGVAFNISSTY
HIQQNGDLCYSGFQYSAGKCFHFGDFMDNYYAKFDGQNKRMGFAKSVEEL
>3LIZ_A Allergen Chain A, Crystal Structure Of Bla G 2 Complexed With Fab 4c3 [Blattella germanica]
EAEASIVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCNVVVASQECVGGACVCPNL
QKYEKLPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELSQEV
CIL SADVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHARFQDGEHFGEIIFGGSDWK
YVDGEFTYVPLVGDDSWKFRLDGKIGDTTVAPAGTQAIIDTSKAIIVGPKAYVNPINEA
IGCVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQPCGH
SDHFFIGDFFVDHYSEFNWENKTMGFGRSVESV
>CBY83816.1 Allergen hyaluronidase [Vespa magnifica]
MLLVTLFLFFLQALVNGDSCGSNCEKSERPKRVFNIIYWNVPTFMCHQYGLYFDEVTNFI
KHNSKDNFQGDKIAIFYDPGEFPALLPLNYGKYKIRNGGVPQEGNITIH LQRFIEYLDKT
YPNRNFSGIGVIDFERWRPIFRQNWGNMKIYKNFSIDLVRKEHPFWNKKMIELEASKRFE
KYARLFMEETLKLAKKTRKQADWGYGYGYPYCFNMSPTNFVPCDVTARDENNEMSWLFNN
QNVLLPSVYIRRELTPDQRIGLVQGRVKEAVRISNKLKHSKPVFSYWWWYVYQDETNTFLT
ETDVKKTFQEIVINGGDGIIIWGS SDVNSLSKCTRLREYLLTVLGPIAVNVTEAVN
>ADT89774.1 Allergen Poly p 1; phospholipase A1 [Polybia paulista]
GLIPECPFNEYDILFFVYTRDKQDGIILKKNLTSYNLFQQPQISHRVVFLIHGFISTGN
NGNFDAMAKALIAKDNFLVMSVDWRAACDASVFNVAGYSKAVANTRRVGKYVADFTKIL
VDKYKVPMSNIRLIGHSLGAHTSGFAGKQVQKLKLGKYSEIIGLDPAGPSFRSTNCPDRL
CETDAQYVQVLHTSSKLGTYDQIGSVDFYVNYGGSQPGCLVRTCSHTKAVLYMTECIKRE
CCLIGTPWSSTGSSPKPKPISACKRDICVCVGLNAKSYPAKGSFYVPVEKNSPYCHNEGI
KL
>ADV17342.1 Allergen Pen m 3; myosin light chain [Penaeus monodon]
MSRKSGSRSSSKRSKSGGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFTMLLNMF AERQTGESDDDDVVAKAFLAFADEGGNID
CDTFRHALMTWGDKFSSQEADDALDQMDIDDAGKIDVQSVIQMLTAGGGDDAAAEAA
>ADV17343.1 Allergen Pen m 4; sarcoplasmic calcium-binding protein [Penaeus monodon]

MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLA VRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGKKGDFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSFAFAEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>BAJ61596.1 Putative paramyosin [*Haliotis discus discus*]

MDYGDVSSKVVRTVSHRSYNVYRGSSPATQNRLEARIRELEDALDTERDCRVRAEKNLAE
ITFYDQVADRLEEQGGVTVQQIEINKKRESELNKRKDELELAVISHESAEASLRKRNQE
TINDLTDQLEYMTKQKNRVEKEKHQLIIEIDTLQGMTDSLAKAKSSAESRADGLQGSVDR
LKLQVDDLSRQLTDANSAKARLTQENFDLQHQQVQELDSANAALAKAKSQLQASNDDLKRO
LDDESRQRQNLQVQFSQLQSGYDNLNARYEESESASTLRTQLSKVNAEFAALKARFEKE
LMAKSEALEELRRRLNTRIAQLEDECETLRARNNNLEKTKAKLTAEIKEITIELENTQII
VQDLTKRNRRTLENENGILQRRCEDELGAEVSAALRAEKASLEAEVHRLRVANAELTERNDNL
QRENKNLSDQLREAQLALKDANRELNELRQIRAQLEMERDSLASQLRDTEEALRDAEGKL
AAAQAALNQLRIDMENRLREKDEEIDNIRRSSARAIEELQRTLIEVETRYKTEISRIKKK
YETDIRELEGALDNANKANAAYLKQIRSLQLRVKEVLLEEERLADDLRGQLSISERK
RIALQQEVEDVRSLLAAERARKNAENELNDANARLSELQIQVTALSNDKRRMEADISAM
QSDLEDAINAQRAAEERADRLFNENVRLADELKQEENYKNAESLRKQLEIEIREITVRL
EEAEAFATREGKRMVAKLQARIRDLEAELEAEQRRVREAFATSRKLERQYKEIQMOTEDD
RRILAETMSINDQLSMKVKAYKRQIEESEDVANLTMNKYRKAQQLIEEADHRADMAEKNL
VAVRRSRMSVTRDVKIVRI

>CBY93636.1 Allergen allergen 5 protein [*Vespa magnifica*]

MKISGFVYLILITTIINLSFSEANNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKGSGLT
KAEKLEILKQHNEFRQKVARGLETRGKPGPQPPAKSMNTLVWNDELAQIAQVWASQCKYG
HDDCRNTAKHSVGQNAQQSTTAASFGSVSNMVQMWAVEVKNYQYGSTKNKLIIEVGHYTQ
MVWAKTKEIGCGSIKIYIENGWHRHYLVCNYGPAGNIGNEPIYEKK

>ADW27428.1 Allergen Fag t 2; 2S albumin [*Fagopyrum tataricum*]

MKLFILATATLLIAATQAKYLRDEGFDLGETQMSSKCTRQVKMMEPELVKCNRYIAMDI
MDDKYEEALSRIQGECESEEKFLRGCCVAMKEMEDECVCEWMKMMVENQKGRIGETLMR
KGIRDLKELPNKCGISEMECHSRGNWYYV

>2X45_A Allergen Chain A, Crystal Structure Of Arg R 1 In Complex With Histamine [*Argas reflexus*]

MDDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTFKENTKTATYTYGYKDas
GKLTKTTGTATAKGSDIVVGSdTSTVIYTDGKTCDVVKHGGHTELWVHSSKTSGGYNCC
DKKFTETRGSTPANEVYKKCPGMP

>ADX78255.1 Allergen Tab y 3 allergen [*Tabanus yao*]

MFKITVFIYVLQLILPSKVHSSPVPDSNGLREFPLSIVHINDFHARFEQTDELGGQCKP
TAKCVGGYARLVTTVKKLKEEGQNTIFLNAADNYQGTLYWYNLWKWNVTAYFMNLLPADAM
TLGNHEFDDKIEGIVPFLEVIKTPIVVANIDDSLEPTFKGKYTKSVVLERGGGRKIGIVGV
IAQNTDNISSPGKLRFLDEIQSVKNESKRLREEEKVDIVIVLSHIGLDHDYDLAEQAGDY
IDAIIGGHSHSFLWTGDNPPGKEKVVDAYPVEIVQTSKKVLIVQASAFARYVGNITLYF
GENNNLIRYAGAPVYLDSDVPEVPQIVEEMKAWEEFVHEKGNEIIAESRVVLSRENCRV
DCNIGNFFTDAYVHEYVTSHTGPYWTPVSVGLMNVGGIRASVDRGNITFSQLITMAPFEN
TVDTFDLSGKHLLEAFEHAVTVPNRLGFNGQNMLQVSGVKLVYDVTKCEGQRVVS AKIRC
QKCDIPKYEPLDPEETYRIVTASFLANGGDGFTMIRDNKKNYKVGRKDYDVLINYAKYSS
PITIGEEGRIRIIQ

>BAJ78220.1 Putative Ani s 11 allergen precursor [*Anisakis simplex*]

MHSTAILLLVLQLSCYFAASFILPGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKD
NAGQRQVNIPPPFIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPPQSGQLPIG
GPGPVVSGSGIGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKDNAGQRQVNIPPP
FIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPPQSGQLPIGGPGPVVSGSGIG
GGANPPRFPVGGPGPIISGDGVNVLQKANSIPKLKGNANPPQLPVGGPGPVISVDGESVL
QKEENSL

>BAJ78221.1 Putative Ani s 11-like protein precursor [*Anisakis simplex*]

MHSTAILLLVLQLSCYFAASFILPGDHGLPVGGPGPVISVDGKNVWEDANGMSELHGPGP
VVSGSGIGRVFPPRSGQLPIGGPGPVVSGSGIGGANPPRFPVGGPGPIISGDGVNVWQK

ANSIPKLGKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>BAJ78222.1 Putative Ani s 11-like protein 2 precursor [Anisakis simplex]

VGGPGPVISVDGKNVWEDANGMSELHGPGPVVSGSGIGRVFPFRSGQLPIGGPGPVVSGS
GIGGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLDNAGQRQVNIPPPFIRGPGPV
VSGSGIGEVGQVPIGGPGPVVSASGRVFPPLRGLPIGGPGPVVSGSGIGRVFPFRSGQL
PIGGPGPVVSGSGIGQVFPQSGQLPIGGPGPVVSGSGIGGGANPPRFPVGGPGPIISGD
GVNVWQKANSIPKLGKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>BAJ78223.1 Putative Ani s 12 allergen precursor [Anisakis simplex]

MLSHLWLIQLCIVAVLSNSEREEFAFLCPVVKNLPPSVREQCIESQIVIRDCKEKKYGEN
CAELIKQCVTITGAPPVTIGGSGQYRVASSLRDCIKKGGYMGYCSNFTTHENCIKWKDEC
APSEAAEKKDENSLEVPETFSQCFKSQVVMQQCMNEGEECSKIEKECVDALGTPPVTT
AANGAYQMAAPLHRCIENGGWMKMCSTWINATICERWKQECSRDKDAEPPTNFSQCIQTQ
TVMLQCKLEFGDKCKALQEECVAATYAPTAYVDANPPIFTSETIRCVRKMAKGL

>CAX62129.1 Allergen Cav p 2; lipocalin [Cavia porcellus]

MMQILLLALAVSLACADSIDYSKVPGNWRTIAIAADHVEKIEVNGELRAYFRQVDCTEGC
DKISITFYTNTDGVCTEHTVVGARNGENDVYTVDYAGENTFQILCNSDDAFVIGSVNTDQ
NGQTTKEVAIAAKRNFLTPEQEKFQKAVQNAGIPLNIRYVIETDTCPD

>CAX62130.1 Allergen Cav p 3; lipocalin [Cavia porcellus]

MQILLLALTIGLAYAHQTLDPSEINGQWHTISIAADNVEKIGEGGPLRGYFHNLHCYDGC
KNIGLTFYVKLDGNCQRFVLDGAKQEDSDVYVAQYSGTNHFEVIGKKEDAIAFYNHNTDE
TGKETKMIVVVARRDSLTEEEQQLQEVAGEKGIPKDNIRYFRERDTCAQ

>BAK09232.1 Putative parvalbumin [Evynnis japonica]

MPFKGLQDADVAKALEGCKDAGTFDHKKFFHACGLSGKSGADVKDAFFVIDQDKSGFIEE
EELKLFLQNFKAGARALTDEETKKFLKAGSDSDGDGKIGADEFAEMVKV

>BAK09233.1 Putative parvalbumin [Evynnis japonica]

MAFSGLSDADMKAALDGCSAADSFDYKKFFKACGLSGKSADEVKKAFAIIDQDKSGFIEE
EELKLFLQNFKGSARALTDKETKAFLAAGSDSDGDGKIGVDEFAALVKA

>CBG76811.1 Putative pollen allergen Sec c 5 [Secale cereale]

MAVQQYTVALFLAVALVAGPAVSYGTYAPAAPGTQPKATTPEQKLMENINNGFKAAVEAA
AAVAPADKYKTFQTTFIKGSNKAFADVLTAASGQIPAQSDSMARLSTSLESSYKLAYDS
AEGATPETKYDITYVASLTESLRVISGAFEVHAVKPAVEEVKGVPAQPKLVVDQIDAAART
AATAANAAPTNDKFNVFESSFNKAIKENTGGAYASYTFVPALESVVKQAYAATVASAPEV
KYAVFQAALSKAINAMVEAEKDAKPAAAAAATATATATVGAAGAAAGGYKA

>Q40240.2 Allergen RecName: Full=Major pollen allergen Lol p 5a; AltName: Full=Allergen Lol p 1b; AltName:
Full=Allergen Lol p Va; AltName: Allergen=Lol p 5a; Flags: Precursor [Lolium perenne]

MAVQKYTVLFLAVALVAGPAASAAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKAAVAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTA YDVAY
KAAEATPEAKYDAFVTALTEALRVIAGALEVHAVKPAVEEVLA AKIPTGELQIVDKIDAA
FKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFIPLSLEAAVKQAYAATVAAA
PEVKYAVFEAALTKAITAMTQAQKAGKPAAAAATAAATVATAAATAAAVLPPPLL VVQSL
ISLLIYY

>P85524.1 Putative RecName: Full=Kirola; AltName: Allergen=Act d 11 [Actinidia deliciosa]

MDLSGKMVKQVEILSDGIVFYEIFRYRLYLISEMSPVNIQGVLDLLEGNWGTVGSVIFFKY
TIDGKEKTAKDIVEAIDEETKSVTFKIVEGDLMEYKTFIIVQVDTKGEHNSVTWTFHY
EKLKEDVEEPNTLMNFCIEITKDIETYHLK

>AEE98392.1 Allergen Man e 5; glutamic acid rich protein / Hev b 5-like protein [Manihot esculenta]

MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEPEKAEPEVAVSEEPKGGDD
APA EVA VETKEVVEVEEAKTVTEEPTVEKTEEEETPKEETPEPVVVKETPKEEPTAETV
VEEAPKETTEAATEAEAPAPESAPASAPETPAEEVPKEEEGDEKKSEAEVEAEKTE

>AEH31546.1 Allergen Tri a 36; LMW glutenin [Triticum aestivum]

MKTFLIFALLAIVATSAIAQMENSHIPGLERPSQQQPLPPQQLSHHQQQQPIQQQPQPF
SQQQPCSQQQQQPLSQQQQPPFSQQQQPPFSQQQQQPLSQQQQPPFSQQQQPPFSQQQQPPF
SQQQQPPFSQQQQPVLPQQPSFSQQQLPPFSQQQSPFSQQQQIVLQQQPPFLQQQQPSLPQ
QPPFSQQQQQLVLPQQQIPFVHPSILQQLNPCKVFLQQQCSVPAMPQSLARSQMLQQSSC

HVMQQQCCQQLPQIPQQSRYEAIRAIISILQEQQQVQGGSIQTPQQQPQQLGQCVSQPQ
QQSQQQLGQQPQQQQLAQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTTSVPF
GVGTGVGSY

>CBM42660.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

MAWRKEEGAMTMLRALLVVALAVCGAHAAGDKKKAEESSKKGDSPAAAAASGPGGSFDITK
LGASGDGKTDSTKALEEAWASACGGKKGKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGN
LLASTDLSQFKANWIEILRVDNLVITGKGKLDGQGSVWSKNNSCAKKYDCKILPNSLVLD
FCNKAIEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDT
TIGVGGDCISIGPGSTKVNITGVTCPGPHGISIGSLGRYKDEKDVTDINVKDCTLKSSN
GLRIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTF
KDITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42661.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

MAWGAMTMLRALLVVALAVCGAHAAGDKKKAEESSKKGDSPAAAAASGPGGSFDITKLGAS
GDGKTDSTKALEEAWASACGGKKGKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLLAS
TDLSQFKANWIEILRVDNLVITGKGKLDGQGSVWSKNNSCAKKYDCKILPNSLVLDFCNK
AEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDTTIGV
GGDCISIGPGSTKVNITGVTCPGPHGISIGSLGRYKDEKDVTDINVKDCTLKSSNGLRI
KAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDIT
GTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42662.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

MAWRKEEGAMTMLRALLVLALAVCGAHAGAKKAEESKKGDSPAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKKGKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQQA VWSKNNSCAKKYDCKILPNSLVLDFC
NKAIEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDTTI
GVGGDCISIGPGSTKVNITGVTCPGPHGISIGSLGRYKDEKDVTDINVKDCTLKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKD
ITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42663.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

MAWRKEEGAMTMLRALLVLALAVCGAHAGAKKVEESKKGDSPAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKKGKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQQA VWSKNNSCAKKYDCKILPNSLVLDFC
NKAIEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDTTI
GVGGDCISIGPGSTKVNITGVTCPGPHGISIGSLGRYKDEKDVTDINVKDCTLKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKD
ITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42664.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

ITGINITGVTCPGPHGISVGLSLGRYKDEKDVTDINVKGCTLKKTSTNGVRIKSYEDAASVL
SASNLYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVKVEYKGTNNTMAVCNNAKGSSTGCLKELACL

>CBM42665.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

STGINITGVTCPGPHGISVGLSLGRYKDEKDVTDINVKGCTLKKTSTNGVRIKSYEDAASVL
SASNLYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVKVEYKGTNNTMAVCNNAKGSSTGCLKELACL

>CBM42666.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

STKVNITGVTCPGPHGISIGSLGRYKDEKDVTDINVKDCTLKSTNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVKVEYSGSNNTMAVCCKNAKGSATGGLKELACF

>CBM42667.1 Allergen group 13 grass pollen allergen [*Paspalum notatum*]

STKVNITGVTCPGPHGISIGSLGRYKDEKDVTDINVKDCTLKSSNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVKVEYSGSNNTMAVCCKNAKGSATGGLKELACF

>AEK65120.1 Putative arginine kinase [*Amphioctopus fangsiao*]

MAEELFKTLQNAKECHSLLKKHLTKERFDKLKGLKTKFGGTLADCIRSGCKNPDSGVGIY
ASDPDAYTVFAEVLDAVIMDYHKIDKVHHPIDFGDVNNLNIGDLDPGSMIVSTRVVRVG

RSHDSFGFPVLKDDRIKMEQVSVEALKSLDGELAGSYFPLANMSADVQKQLTEDHFLF
NDSDRFLKAASGYDDWPIGRGIYFSENKTFLCWVNEEDHLRLISMQKGGNLGEVYKRLVS
AINKMEKKLNFAKKDNMGYLTFPCPSNLGTTMRASVHIKIPKLSQRSDFKSICDKYNLQAR
GIHGEHTESVCGVYDISNKRRMGLTEYEAVTEMMRGVNEIIREETNST
>2XV9_A Putative Chain A, The Solution Structure Of Aba-1a Saturated With Oleic Acid [Ascaris suum]
GSPEFHHTLESSLDTHLKWLSQEQQDELLKMKKDGKAKKELEAKILHYDELEGDAKKE
ATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIAD
FGPACKKIYGVHTS
>AEM89226.1 Putative enolase, partial [Fenneropenaeus merguensis]
FTEAMRMGSEVYHHLKAVIKGRFGLDATAVGDDEGGFAPNILNNKDALTLIQESIEKAGYT
GKIEIGMDVAASEFYKGENIYDLDFKTANNDGSQKITGDQLRDMYMEFCNEFFIVSI
>CCD28287.1 Allergen pollen allergen Phl p 5 [Phleum pratense]
MAVHQYTVLFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEE
QKLIKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKA
ALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIP
AGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNNAIKASTGGAYESYKFIPALEA
AVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATSAVGAATGAA
TAAAGGYKV
>3S7E_A Allergen Chain A, Crystal Structure Of Ara H 1 [Arachis hypogaea]
MSRNNPFYFSPRRFSTRYGNQNGRIRVLQRFQDQRSRQFQNLQNHRIVQIEAKPNTLVLPK
HADADNILVIQQGQATVTVANGNNRKSFNLDGHALRIPSGFISYILNRHDNQNLRVAKI
SMPVNTPGQFEDFFPASSRDQSSYLQGFSTRNLEAAFNAAFNEIRRVLLEENAGGEQEER
GQRRWSTRSSENEGVIKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPLS
NNFGKLFVQPKDPKKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKGTVGNLELV
AVRKEQQQRGRREEEDEDEEEEGSNREVRRYTARLKEGDVFIMPAAHPVAINASSELHL
LGFGINAENNRIFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKQKESHFVSAR
>AEQ28167.1 Putative tropomyosin [Anisakis simplex]
MDAIKKKMAMKIEKDNALDRADAAEGKVRQMTDKLERIEEELRDTQKKMMQTENDLKA
QEDLSTANSNLEEKEKKVQEAEEVAALNRRMTLLEELERAEERLKLATXKLEEATHA
DESERVRKVMENRSFQDEERANTVESQLKEXQMLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEELRVVGNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLDELVHEKERYKSISEELDQTFQELSGY
>NP_001238443.1 Allergen Gly m 8; 2S albumin [Glycine max]
MTKFTILLISLLFCIAHTCSASKWQHQQDSCRKQLQGVNLTPEKHIMEKIQGRGDDDDDD
DDDDNHILRTMRGRINYIRRNEGKDEDEEEEGHMQKCCTEMSELRSPKCQCKALQKIMEN
QSEELQKQKMEKELINLATMCRFGPMIQCDLSSDD
>AET05730.1 Putative lipid transfer protein isoform a, partial [Pyrus communis]
AHAITCSQVSSNLAPCINIVRSVGGAVPPACCNGIKTINGLANTPDRQAACNCLKNLAGS
VSGVNPNGNAESLPGKCGVNPYKISTSTNCATVK
>AET05732.1 Putative lipid transfer protein isoform c, partial [Pyrus communis]
AHAITCSQVSSNLAPCINIVRSVGGAVPPACCNGIKTINGLANTPDRQAACNCLKNLAGS
VSGVNPNGNAESLPGKCGVNPCKISTPTNCATVK
>AET05733.1 Putative lipid transfer protein isoform d, partial [Pyrus communis]
AHAITCSQVTSNLGACIGYVKNNGGVVPPACCNGIRTVNGLARTTADRQTTCNCLKSLAGS
IKGVNPNNAATLPGKCGVNPFKISTSTNCATVK
>AEV23867.1 Allergen Per a 5; glutathione S-transferase [Periplaneta americana]
MTIDFYLLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNQHTIPTLNDN
GFCLWESRAILSYLADQYKDDSLYPKDAKKRALVDQRLYFDIGTLYHRFGEYYPIYFA
KQAADPEKMKKLEEAFLNKFLESQEFVAGNKLTIADLAISSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK
>AEV41413.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAIFSSNSATSSSLPSRTTSILLVLFIASLSITDAQVGVVGYGMLGNNLPPASQVISLYKQ
ANIKRMRIYDPNQAALQALRGSNIQLMLGVPNSDLQSLTNPSNANSWIQRNVRAFVPSVR
FRYIAVGNEISPVNGGTASLAKFVLPAMRNIYNAIRSAGLQDQIKVSTAIMTLIGNSYP

PSAGAFRGDVRSYLDPIIGFLSSIRSPLLANIYPYFSYAGNPRDISLPYALFTSPSIVVW
DGQRGYKNLFDAMLDALYSALERAGGGSLEVVVSESGWPSAGAFATFDNGRITYLSNLIQ
HVKGGTPKRPRFIETYLFAMFDENQKQPEFEKHFGLFFPNKQKYNLNFAGAKKNWDISA
DYNATVLLLKSDI

>AEV57471.1 Allergen thaumatin-like protein 2 [Prunus persica]

MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTTLTGDKPQLSLTGFELATG
ISNSVDAPSPWSGRFFGRTRCSTDASGKFCATADCGSGQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVSLVDGFNLPMAVAPQGGTGECKASTCPADVNAVCPAELQVKGSDGSVIAC
KSAACLALNQPQYCCTPPNDKPETCPPTTEYSKIFKDQCPQAYSAYDDKSSTFTCSARPDY
LITFCP

>B3A0N2.1 Putative RecName: Full=Non-specific lipid-transfer protein; Short=LTP [Lycium barbarum]
GPLGGCCGGIKKSAAGISGINYGIAAGLPGKCGVNIPYKISPSTDCSKVQ

>AEX34122.1 Allergen Pen c 26; ribosomal phosphoprotein P1 [Penicillium crustosum]

MSTAELACSYAALILADDGIEISADKIQTLISAANVQEVEPIWASIFARALEGKDIKELL
TNVGSAGPASAAPAGAAGAAAPAEKAEKKEEKEEEDMGMFGLFD

>AEY79726.1 Putative cyclophilin [Daucus carota]

MANPKVFFDMTIGGTPAGKIVMELYADTTPKTAENFRALCTGEKGTGKSGKPLHYKGSF
HRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFERKHTGPGILSMANAGPGTNGSQFF
ICTAKTEWLDGKHVVFVKVVEGMDVVKAIEKVGSGSGKTSKPVAIADCGQC

>AEY79727.1 Putative isoflavone reductase-like protein [Daucus carota]

MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFVHG
DLYDHGSLVKAIKQVDVVISALGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSAFAAKALFRRTVEAAGVPFTYVACNFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPEEQVLKNIQESVPIINVLLSISHSAFVKGDQTSFEIEPSYGVEASALYPDVKYTTVDV
YLSQFV

>AEY79728.1 Allergen Dau c 5; isoflavone reductase-like protein [Daucus carota]

MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFVHG
DLYDHGSLVKAIKQVDVVISALGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSAFAAKAQFRRTVEAAGVPFTYVACDFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPEEQVLKSIQESVPIINVLLSISHSAFVKGDQTSFEVEPSFGVEASALYPDVKYTTVDE
YLSQFV

>CCF72371.1 Putative lipocalin-Can f 6 allergen [Canis familiaris]

MKLLLLCLGLILVHAHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVK
DIEVLSNSSLIFTMHTKVNGKCTKISLICNKTEKDGEYDVVHDGYNLFRIIETAYEDYII
FHLNNVNQEQEFQLMELYGRKPDVSPKVKEKFRYRCQGMEIPKENILDLTQVDRCLQARQ
SEAAQVSSAE

>AFA45339.1 Allergen Pro c 2; arginine kinase [Procambarus clarkii]

MADAATIAKLEEGFKKLEAATDCKSLLKKYLSKSIFDSLKAKKTGLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYSFLAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKVF
ISTRVRCGRSLEGYPFNCLTEAQYKEMEEKVSSTLSGLELKGTYYPPLAGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIYHNDNKTFVWCNEEDHLRIISMQMGGDLG
QVYRRLVSAVNDIEKRVPFHHDRLGFLTFCPTNLGTTIRASVHIKLPKLAANREKLEEV
AARYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMA

>AFA45340.1 Putative arginine kinase [Scylla paramamosain]

MADAAVIEKLEEGFKKLEAATDCKSLLKKYLTKSVDQLKGGKTSLGATLLDVIQSGVEN
LDSGVGVYAPDAEAYTLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKVF
ISTRVRCGRSMEGYPFNCLTEAQYKEMESKVSSTLSNLELKGTYYPPLTGMTKDVQQK
LIDDHFLFKEGDRFLQAANACRYWPTGRGIYHNDNKTFVWCNEEDHLRIISMQMGGDLG
QVYRRLVSAVNEIEKRVPFHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMQ

>P86137.2 Allergen RecName: Full=Non-specific lipid-transfer protein 1; Short=LTP1; Short=nsLTP1; AltName:
Allergen=Act d 10.01 [Actinidia deliciosa]

AVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLSMTGKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>P85204.1 Allergen RecName: Full=Non-specific lipid-transfer protein 1; Short=LTP1; AltName: Allergen=Act c 10
[Actinidia chinensis]

AVSCGQVDTALTPCL

>P85206.1 Allergen RecName: Full=Non-specific lipid-transfer protein 2; Short=LTP2; AltName: Allergen=Act d
10.02 [Actinidia deliciosa]

TVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLSMTGKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>CBL79147.1 Allergen aldolase A [Salmo salar]

MPHAFPFLTPDQKKELSDIAHKIVAQGGKILAADESTGSVAKRFQSINTENTEENRRLYR
QLLFTADERAGPCIGGVIFFHETLYQKTDAGKTFPQHVKSRGWLVGIKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKDGCDFAKWRCVLKITSTTPSRLTIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAAMYKALSDDHHVYLEGTLLKPNMVTAGHSC
SHKYTHQDIAMATITALRRTVPPAVPGITFLSGGQSEEEASINLNMVNQCPLHRPWAITF
SYGRALQASALKAWGGKPKNGKAAQEEFIKRALANSLACQGKYVSSGDSAAAGDSLFLVAN
HAY

>CBL79145.1 Allergen enolase [Thunnus albacares]

MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALERDNDKTRYMGK
GVKRAVKYINEFLAPALCNQDVTVIEQEKIDKMLDMDGTENKYKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPEVILPVPFNVINGGSHAGNKLAMQEFMILPVGASSFKD
AMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNILENKEALKLLKNAIGKAGYTDKI
VIGMDVAASEFYKGGKYDLDFKSPDDPSRYIPSKLADLYKGFVKDYPVVSIEDPFDQDD
WEAWSKFTASTSIQVVGDDLTVTNPKRIAKGVAEKSCNCLLLKVNQIGSVTESLQACKMA
QSSGWGMVSHRSGETEDTLISDLVVGGLCTGQIKTGAPCRSERLAKYNQLMRIEELGAK
AKFAGKNFRHPI

>CBL79146.1 Allergen enolase [Salmo salar]

MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALERDNDKTRYLGK
GVKRSVKYINEFLAPALCNQDVSVLEQEKVDQLMLDMDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPNVILPVPFNVINGGSHAGNKLAMQEFMTLPVGASTFKE
AMRIGAEVYHNLKNVIKKNYGQDATNVGDEGGFAPNILENKEALELLKEAIGKAGYTDKI
VIGMDVAASEFYKDGKYDLDFKSPDDPSRYITPDQLGDLYKSFVKDYPVVSIEDPFDQDD
WAAWSKFTAETSIQVVGDDLTVTNPKRIAKGVADKACNCLLLKVNQIGSVTESLQACKMA
QTNGWGMVSHRSGETEDTFIADLVVGGLCTGQIKTGAPCRSERLAKYNQLLRIEELGDK
AVFAGKNFRHPI

>AFJ68065.1 Allergen Der p 1 variant, partial [Dermatophagoides pteronyssinus]

EARPSSIKTFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSLSDLSLDEFK
NRFLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFS
GVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVA
REQSCRPNARFGISNYCQIYPPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTI
IQRDNGYQPNYHAVNIVGY SNAQSVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPY
VVIL

>AFJ68066.1 Allergen Der f 1 variant, partial [Dermatophagoides farinae]

EARPASIKIFEEFKKAFNKNYATVEEEVARKNFLESVKYVEANKGAINHLSLSDLSLDEFK
NRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDRSLRTVTPIRMQGGCGSCWAF
SGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVA
AREQQCRPNASQHYGISNYCQIYPPDVKQIREALQTHTAIAVIIGIKDLRAFQHYDGRT
IIQHDNGYQPNYHAVNIVGY GSTQGVVYWIVRNSWDTTWGDSGYGYFQAGNNLMMIEEQYP
YVVIM

>AFJ68067.1 Allergen Der p 2 variant 1, partial [Dermatophagoides pteronyssinus]

DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEANQNSKTAKIEIKASIDG
LEVDPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIRD

>AFJ68070.1 Allergen Der p 2 variant 4, partial [Dermatophagoides pteronyssinus]

DQVDVKDCANHEIKKVLVPGCHGSETCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>AFJ68072.1 Allergen Der f 2, partial [Dermatophagoides farinae]

DQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFGANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFVKCPLVKGGQQYDIKYTWNVPKIAPKSENVVVTVKLIGDNGVLACA
IATHGKIRD

>AFJ97274.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]

MAISSSTSGTSSSLPSRRTTVMLLLIFFTASLGITDAQVGVCYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNESPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDKIKVSTAILTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSRSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVSSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLAFAMFDENKKQPEVEKHFGLFFPKRKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>AFJ97275.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]

MAISSSTSGTSSSLPSRRTTVMLLLIFFTASLGITDAQVGVCYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RIRYIAVATKLVVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSRSPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVSSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLAFAMFDENKKQPEVEKHSGLFFPKRKYNLNFGAEKNWDIS
TEHDATILFLKSDM

>3V0R_A Allergen Chain A, Crystal Structure Of Alternaria Alternata Allergen Alt A 1 [Alternaria alternata]

MDTASCPVTTEGDYVWKISEFYGRKPEGTYNSLGFNIKATNGGTLDFTCSAQADKLEDH
KWYSCGENSFMDFSFSDRSGLLLKQKVSDDITYVATATLPNYCRAGGNGPKDFVCQGVA
DAYITLVTLPKSS

>AFM77001.1 pathogenesis related protein 5, partial [Malus domestica]

LTGFELASKASRSVDASSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPP
ATLVEITIAANGGQDYDVSVDGFLNPMSPVAPQGGTGECKPSSCPANVNAACPAQLQVK
AADGSVISCKSACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSAYDDKNST
FTCSGGPDYVITF

>CCK33471.1 Allergen Tri a 39; serine protease inhibitor [Triticum aestivum]

MSPVVKKPEGRNTDTSDDHNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKIAQVPRVG

>3TSH_A Allergen Chain A, Crystal Structure Of Phl P 4, A Grass Pollen Allergen With Glucose Dehydrogenase Activity [Phleum pratense]

YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
QVSHIQSAVVCGRRHVVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRQNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLNFIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>P86360.1 Putative RecName: Full=Allergen Tha p 2; AltName: Allergen=Tha p 2; Flags: Precursor [Thaumatococcus panyocampa]

MKLLIFAILIALSSSVPQLSEKAEAAVDLAYQEKNNLFDLGSVAGDILSRSGCHVSFGCH
KGYCWAGCGDPTNPWSWGENWCYTTKSYSQSYVQCTQDSECDGCWCKGGPCSA

>P86888.1 Allergen RecName: Full=Peamaclein; AltName: Allergen=Pru p 7 [Prunus persica]

GSSFCDSKCGVRCISKAGYQERCLKYCGICCEKCHCVPSGTYGNKDECPCYRDLKNSKGNP
KCP

>AFV53352.1 Allergen Ore m 4; tropomyosin [Oreochromis mossambicus]

MDAIKKKMQMLKLDKENALDRAEQAESDKKAAEDRSKQLEDDLVALQKKLKGTEDELDKY
SEALKDAQEKLELAEKIATDAEGEVASLNRRIQLVEEELDRAQERLATALTKLEEAEKAA
DESERGMKVIENRAMKDEEKMELQEIQLKEAKHIAEEADRKYEEVARKLVIIIEGDLERTE
ERAELSEGKCELEEEELKTVTNNLKSLEAQAQEKYSQKEDKYEEEIKALTDKLKEAETRAE
FAERSVAKLEKTIDDLEDELYAQKLYKAISEELDHALNDMTSI

>BAB21619.2 Putative allergen Gly m Bd 28K [*Glycine max*]

MGNKTTLLLLLFLVCHGVATTTMAFHDDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLK
SHGGRIFYRHMHIGHFISMEPKSLFVPQYLDNLIIFIRRGEAKLGFYDDELAERRLKTG
DLYMIPSGSAFYLVNIGEGQRLHVICSIDPSTSLGLETFQSFYIGGGANSHSVLSGFEP
ILETAFNESRTVVEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQLKMMQDQE
EDEEEKQTSRSWRKLLTVFGKVNKIEKNTAGSPASYNLYDDKKADFKNAYGWSKALH
GGEYPLSEPDIGVLLVKLSAGSMLAPHVNPISDEYTVLSGYGELHIGYPNGSRAMKTK
IKQGDVVFVPRYFPFCQVASRDGPLEFFGFSTARKNKPPQFLAGAASLLRRLMGPELSAA
FGVSEDTLRRAVDAQHEAVILPSAWAAPPENAGKMKMEEEPNAIRSFANDVVMDFV

>AGA84056.1 Allergen profilin [*Arachis hypogaea*]

MSWQTYVDDHLLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEPSL
APTGLYLGGTKYMVIQGEPTVIRGKKGPGGVTIKKTNQALIIGIYDEPMTPGQCNMIVE
KLGDYLDITGL

>AGC39164.1 Putative kiwellin [*Actinidia deliciosa*]

MAQLALLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGQLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39165.1 Putative kiwellin [*Actinidia deliciosa*]

MAQLALLLSLFLTLISLAPPGTSSISSCNGPCRDLNDCDGQLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39166.1 Putative kiwellin [*Actinidia deliciosa*]

MAQLALLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGQLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39167.1 Putative kiwellin [*Actinidia deliciosa*]

MAQLSLLVLSLFLTLISLPPPASISSCNGPCRDLNDCDGQLICIEGKCNDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39168.1 Allergen Act c 5; kiwellin [*Actinidia chinensis*]

MAQLSLLLLSLFLTLISLPPPASISSCNGPCRDLNDCDGQLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCQGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLNKNVGVVDITWSMA

>AGC39169.1 Putative kiwellin [*Actinidia eriantha*]

MAQLSLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGQLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39170.1 Putative kiwellin [*Actinidia eriantha*]

MAQLSLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGQLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDSTRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39171.1 Putative kiwellin [*Actinidia eriantha*]

MAQLSLLFLSLFLTLISLAPSGASISSCNGPCRDLNDCDGQLICIKGKCNDDEVEVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPPSECD
ERYHSNNERIVALSTGWYNGGSRGKMRITASNGKSVSAKVVDECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39172.1 Putative kiwellin [Actinidia arguta]

MAQLTLLLLSLFLTLISLPPPASISSCNGPCRDLNDCDGQLICIKGKCNDDEVEVGTHIC
GGTTPSPQPGSCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPPSECD
ESYHSNNERIVALSTGWYNGGSRGKMRITASNGKSVSAKVVDECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39173.1 Putative kiwellin [Actinidia arguta]

MAQLTLLLLSLFFTLISLPPPASISSCNGPCRDLNDCNGQLICIKGKCNDDEVEVGTHIC
GGTTPSPQPGSCKPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPPSECD
ESYHSNNERIVALSTGWYNGGSRGKMRITASNGKSVSAKVVDECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39174.1 Putative kiwellin [Actinidia arguta]

MAQLTLLLLSLFLTLISLPPPASISSCNGPCRDLNDCDGQLICIKGKCNDDEVEVGTHIC
GGTTPSPQPGGCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPPSECD
ESYHSNNERIVALSTGWYNGGSRGKMRITASNGKSVSAKVVDECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39176.1 Allergen thaumatin-like protein [Actinidia chinensis]

MSTFKSLSLSALLFIAFLFTCARGATFNIINCPFTVWAAA VPGGGKRLDRGQNWIIINPG
AGTKGARVWARTGCNFDGAGRGKCQTGDCNGLLQCQAFGQPPNTLAEYALNQFNLDFFD
ISLVDGFNVAMEFSPTSGGCTRGKCTANINEQCPNELRAPGGCNPCTVFKTDQYCCNS
GNCGPTDYSRFFKTRCPDAYSYPKDDQTSTFTCPGGTNYKVVFCP

>AGC56216.1 Allergen Der f 25; triose-phosphate isomerase [Dermatophagoides farinae]

MGRKFFVGGNWKMNNGNKTAIKEIVDFLKNGLDSDNVEVVVGVPAIYMLCKNILPDNIRV
AAQNCYKVDKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGESDQLIGEKVEHALQEGL
HVIAICIGELLEEREAGKTTEVVFRQTQVISKHVKDWFKVFLAYEPVWAIGTGKTASPQQA
QEVHQKLRQCFSENVSPQIAETIRIYGGSVTANNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>AGC56218.1 Allergen Der f 28; heat shock protein 70 [Dermatophagoides farinae]

MSKTPAIGIDLGTTYSCVGVFQHGKVEIANDQGNRTTPSYVGFDTTERLIGDAAKNQVA
MNPSNTVFDKRLIGRKFDETTVQADMKHWPFKVIEKGNKPAIEVEFKGETKQFIPEEIS
SMVLVKMRETAEAYLGGTVNNAVITVPA YFNDSQRQATKDSGLIAGLNVLRINEPTAAA
IAYGLDKKGGAGERNVLIFFDLGGGTFDVSLTIEEGIFEVKSTAGDTHLGGEDFDNRLVN
HFVKEFKRKHKKDLTTNARALRRLRTSCERAKRTLSSAAQTSIEIDSLFEGIDFYTSITR
ARFEELCADLFRSTMEPVERVLRDAKTDKSSVNEIVLVGGSTRIPKIQRLVADFFNKDPN
KSINPDEAIA YGAAVQASILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTALIKRDTT
IPTRSPRLSLPTPTTSLVSRFRSTRVSVLAPRTTTSLVSSSSPVSPCSSWCSSDRGHFDV
DANGIMNVGAVEKGTGKTNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEAARIHAKN
GPESYAYSLRNTVNEGKLSISDSDEKLRARLTRLSTGSTTTRPPARRSTTLNRRSSRVL
PTPSFWLPTVVLAVVVPPLVVTPVLVALVVLTRLRSALRSLTKKVFNGVFLFPVLFVDS

>AGC56219.1 Allergen Der f 30; ferritin [Dermatophagoides farinae]

MAANPESTTKTSRVRMNIQINLEFYASYVYQQMAYHFNRDDVALPGFEKFFDVSSKEERE
HAERFMKLQNQRGGRIVLDDIHKPQQQDWSSGLEAMRAALELEKTVNQALLDLHAVATKH
NDAQFADFIETHYLTEQVEAIKKLADYITNLERC GPGLGEYLFDRHTLHSS

>B3EWE5.3 Putative RecName: Full=Thaumatin-like protein 2; AltName: Full=Basic thaumatin-like protein
[Manilkara zapota]

ATFDIQNNC

>AGC60020.1 Putative Ani s 2 allergen [Anisakis pegreffii]

MSDTLYRSPSMAIRSSTADMGALTSMSVADLGSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLLEESQLENEEDAMNVLRK
KHQDVCLDYTEQIEQLQKKNKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVKYQLAQQLEE

SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWKS
FDAEVALHHEEVEDLRKKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAEQKMKQLYEKAVEQ
KEALARENKKLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEAARRDA
EARAQRALAEQQVRIEMERRLQEKEEEMEALRKSMMQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNRRANLEAQKTIKKQSEQIIQLQANLEDTQRQLQQTLDQYAL
AQRKISALSAELECKTALDNAIRARKQVEADLEEAHVRISDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALLGGKRVIAKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDTADRMLEKLNQIKRQLGEAEAMTMQNLQRVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>AGC60026.1 Putative Ani s 12 allergen [Anisakis pegreffii]

MVKNLPPSVREQCIESQIVIRNCKEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCKTFTTEENCIEWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQC�LKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>AGC60027.1 Putative Ani s 12 allergen [Anisakis pegreffii]

MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGEEECLKIQKECVDAFGTPPVTSANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQC�LKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>AGC60028.1 Putative Ani s 12 allergen [Anisakis pegreffii]

MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTPENCIKWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMSKGEEECLKIQKECVDAFGTPPVTSANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQC�LKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>AGC60029.1 Putative Ani s 12 allergen [Anisakis simplex]

MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQC�LKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>AGC60030.1 Putative Ani s 12 allergen [Anisakis simplex]

MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAT
SLRDCIKKGGYMGYCKTFTTEENCIEWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMNEGEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQC�LKFQDKCKALQEECVAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>AGC60031.1 Putative Ani s 12 allergen [Anisakis simplex]

MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMNKGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQC�LKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMITCVKRKMAKGL

>AGC60035.1 Allergen Ani s 1 allergen [Anisakis simplex]

MDKGTPCTQEGGVKPSVAWWHDDKTGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRGSWMMTILGKSCDDQFCPEDAKCEQGKLFANCK

>AGC60036.1 Allergen Ani s 1 allergen [Anisakis simplex]

MDKGTPCTQEGGVKPSVAWWHDDKSGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS

GKPVKMDRGSWMMTILGKSCDDQFCPEDAKCEQGKLFANCK

>B3EWS0.1 Putative RecName: Full=Thaumatococcus protein 1a; AltName: Full=Acidic thaumatococcus protein; AltName: Full=Beta-1,3-glucanase [Manilkara zapota]

ATFDIVNQCTFT

>CCP19647.1 Allergen Par j 3; profilin [Parietaria judaica]

MSWQTYVDDHLMCEIEGNHLTAAAILGQDGSVWAQSASFPQFKPEEIAAIVKDFEEPGTL
APTGLFLGGAKYMVIQGEAGVVIRGKKGSGGVTVKKTGQALVIGIYDEPMAPGQCNMIVE
RLGDYLIETGL

>AGE44125.1 Allergen Por p 1; tropomyosin [Portunus pelagicus]

MDAIKKKMAMKLEKDDAMDRADTLEQQNKEANIRAIEKAEVHNLQKRMQQLENDLDQV
QESLLKANTQLEEKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSTTDELDQAFSELSGY

>E1U332.1 Putative RecName: Full=Isoflavone reductase-like protein; AltName: Full=Pollen allergen Ole e 12.01; AltName: Allergen=Ole e 12.01 [Olea europaea]

MADKTKILIIGGTGYIGKFIVEASAKSEHPTFALARESTISDPVKGKIIQGFKNQSGVTIL
TGDLYDHESLVKAIKQVDVVISTVGLQLADQVKIIAAIKEAGNVKRRFFPSDFGTDVDR
HAVEPAKSSFEIKSQIRRAIEAEGIPYTFVSANYFAGYSLPTLVQPEVTAPPRDKVILG
DGNAKAVFNEENDIGTYTIKAVDDARTLNKILYIKPPKNIYSFNELVALWEKKIGKTLEK
IYVPEEQVLKQIQESPPINIVMAINHSFVKGDLTNFKIEPSFGVEASELYPDVKYTTV
EEYLDQFV

>E3SU11.1 Putative RecName: Full=Thaumatococcus protein; AltName: Allergen=Ole e 13; Flags: Precursor [Olea europaea]

MNFSKNLPLLVSLLWITFFAYTHAATFDIVNQCTYTVWAAASPGGRRRLDQGSWNINVA
PGTTQARIWGRNTCNFDANGRGQCETGDCNGLLECQYGRPPNTLAEFALNQPNNLDFVD
ISNVDGFNIPLEFSPTTNCRRLLVCNAPIVQQCPSELRTPGGCNNPCTVFNTNEYCCTNG
PGSCGPTLSRFFKERCPDAYSYQDDPTSLFTCPAGTNYRVVFCP

>AGG10560.1 Allergen Tyr p 8 allergen [Tyrophagus putrescentiae]

MSSKPVLYWDIRGLAQPIRLLLAYLDVDYEDKRYQLGANFDRSAWLTEKFNGLDFPNL
PYYIDGNVSKLSQTLAILRYIGRKYKLTGANPEELRVSLVEQQVVDGNQSLSRVAYDPNA
DKLKPDLKTLPLDSVKQLSHFLGNSPFVAGTSITYVDFWLVEYLKLSVLVPEVFGQFDN
LKKFVERIESLPRVSVYIKAQQPKLFNGPMAKWNQYA

>NP_001306883 Allergen Sola l 6; lipid transfer protein (LTP) type 2 [Solanum lycopersicum]

MKMTKVCSEFVAVMLVMILVCDQFGANEAATCSASQLSPCLGAIQGGTAPSQDCCARLKNQ
QPCICGFMKDPNLRQYVNSPNARKVAGQCGVSIKSC

>CCU98198.1 Allergen Mala s 13; thioredoxin [Malassezia sympodialis ATCC 42132]

MGVQVISSYDQFKQVTGGDKVVVIDFWATWCGPCKMIGPVFEKISDTPAGDKVGFYKVDV
DEQSQIAQEVGIRAMPTFVFFKNGQKIDTVVGADPSKLQAAITQHS

>CCU99206.1 Putative allergen [Malassezia sympodialis ATCC 42132]

MSNVIKVFNTDKAEAEESKVVADAPQEAHGKGGFLHDAKDRLQGFAGHGHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLAPVTRHVHHRHEIEELLREREHHIHQHHIHV
QPVVDEHLAEQIHSRVVPQTTVREVHANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGLVLTSTTRSIEEAGLLNLGNNQRTVEGETYTGGLPLSQ

>CCU99457.1 Putative allergen [Malassezia sympodialis ATCC 42132]

MSATTGSQAPNTTFTYIPWAPELDSGKVCVGPQTFKAHDRWKGKVVVVAIPGAFTPVCH
QNHIPGFVEKINELKAKGVDEVVAVNDAFVMSGWGVTVGGKDQIVYACDNDLAFSKAL
GGTDLTSGGMGVRTARYAVVLDLKITVFGMDEGNMGAPEKSSVDAVLAQL

>CCV00099.1 Putative allergen [Malassezia sympodialis ATCC 42132]

MTEHTLPPLPYEYNALEPFISADIMMVHGHGKHHTYVNNLNASTKAYNDVQAQDVLKQM
ELLTAVKFNNGGHVNHAFWKTMAPQSQGGQLNDGPKQAIDKEFGDFEKFAAFTAKA
LGIQSGWCWLGLSKTGLSLDLVVAKDQDTLTTHHPHIGWDGWEHAWYLQYKNDKASYLKQ

WNVVNWSEAESRYSEGLKASL

>CCU97864.1 Putative allergen [*Malassezia sympodialis* ATCC 42132]

MSSVVGDLIGNSSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGLSLKRLIGRTFQDESIQTYEKFVNAELVDAKGEVGVKVRVFQNEEHIFSATQLLA
MYLGKLRDTTQNELGGSGVSDVVLSPWIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSPRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFAEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQSLTKDEIHSVELVGGSSRVPALKERIAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPIKVSWEPAVDVPEENELV
VFNTNPNVPSTKILTFYRKEPFLDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVEASAYTVDEIEKEEEVPVVDPNAAEDAEPKTEKKIVKKLQRKDDL
IVSGIGLLDPTLLAELKEREQMYAADKLVAADTEDRKNAL EYIYDTRSKLDERYATFVQ
SEEKEKLLAMLAESDWLYTEEGEDATKSA YVSRLET LQKVGAPIHFRWKEHEERP KAAA
QLREVVNKYMSVFENEPEKYDHLSDDDKTKVIEKAATV GKWLDDYMYKQSEL PKNVDPKL
TSEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>AGI78542.1 Allergen Der f 24; ubiquinol-cytochrome c reductase binding protein (UQCRB) [*Dermatophagoides farinae*]

MVHLTKTLRFINNPGRKFKFYGLQGYNKYGLYDDDFYDYTDAAHLEAVRRLPPDLYDQHT
YRLVRASQLEITKQFLPKEQWPSYEEDMDKGRFLTPYLDEV MKEKKEKEEWINFLSKD

>AGL34967.1 Allergen Cof a 2; metallothionein type 2 [*Coffea arabica*]

MSCCGNCGCGAGCKCSGGCGGCKMYPELSY TENTAETLILGVAPPKTA YLEGAGEEAA
AENGGCKCGPDCKCNPCK

>AGL34968.1 Allergen Cof a 3; metallothionein type 3 [*Coffea arabica*]

MSDKCGNCD CADRSQC VKKGSSYAADIVETENTFVETFVMMEGGAQNGKCKCGPSCACVN
CTCDN

>AGM48615.1 group 14 major allergen 1 fragment 3, partial [*Sarcoptes scabiei*]

DLDNAFNPRDGMTKLQVKDRIYDIKLRFPFRY GDLHIEGNENALIKKGD LHMSLVDPLT
LNVLTKN DGI VDM TLDL VSPNTKKAALKINSK KYDL DHDGEITVSIFNPRMTWKHHTRKG
DMELNIDADITRKGSLITYSRKEPDDSTKVRYSRQGNQVSMEVDSK LIEGHANGTLTDGK
IHVKGRESDFEIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMNMKY
DRFAPVKILKLDYDGLNYEKHIDAEYEPSNH YKYFTD GSKSRSGKGYSIKIDGPKKALK
VDVDMPDFKF

>BAN29066.1 Allergen Tri a 20; gamma gliadin [*Triticum aestivum*]

NMQVDPSQVQWPQQPVPQPHQPFSSQQPQQT FFPQPPQTFPHQPPQFPQPPQPPQFLQ
PQQPFQPPQPPYPPQPPQPPFPQTQQPQLFPQSQQPQQQFSQPQQQFPQPPQPPQSFQ
QQPPFIQPSLQQVNPCKNFL LQQCKPVSLVSSLWSMIWPQSDCQVMRQQCCQQLAQIPQ
QLQCAIHTIIHSIIMQQEQEQEQQQGMHILLPLYQQQQVGGQTLVQQGGIIPQPPAQL
AIRSLVLQTLPTMCNVYVPPECSI KAPFSSVVAGIGGQ

>BAN29067.1 Allergen omega-gliadin, partial [*Triticum aestivum*]

ARELNPSNKE LQSPQQSFHQPPQPPYPPQPPYPSQQPFPPTPQQQFPQQSQQ
PFTQPPQPTPLQPPQPPFPQPPQPPQPPFPQPPQPPFPWQPPQPPFPQTQQSFPLQPPQPPFQ
QPQQPPFPQPLFPQQSEQIIPQQPQQPFPLQPPQPPFPQPPQPPFPQPPQPPVQPPQSF
PQQSQSQQPFAQPQQLFPELQQPIPPQPPQPPFPQPPQPPFPQPPQPPFPQPPQSFQ
PQQPPFPQPPQPPFPQPPQPPFPQPPQPPFPPLRPQPPFPQPPQSQSFQPPQPPQPPS
ILQPPQPLPQQPQQPFQPPQQLSQPEQTISQQPQQPFPQPPHQPQQPYPPQPPYGS
LTSIGGQ

>BAN29068.1 Allergen high molecular weight glutenin subunit, partial [*Triticum aestivum*]

EGEASEQLQCERELQEHSLKACRQVVDQQLRDVSPECQPVGGGPVARQYEQQVVVPPKGG
SFYPGETTPPQQ LQQSILWGIPALLRRYYLSVTSPQQVSYYPGQASSQRPGQGQQEYYLT
SPQQSGWQQPGQGSYYP TSPQQSGQKQPGYYPTSPWQPEQLQQPTQGQQRQQPGGGQ
QLRQQGQQGQQSGGQPRYYPTSSQQPGQLQQLAQGQQGQQPERGQQGQQSGGQQQLGQQG
QGQQPGQKQQSGGQQGYYPI SPQQLGQQGQQSGGQLGYYPTSPQQSGGQSGYYP TSAQ
QPGQLQQSTQEQLGQEQQDQQSGQGRQQGQQSGQRQQDQQSGGQQPGQRQPGYYSTSPQ
QLGQQPRYYPTSPQQPGQEQQPRQLQQPEQQGQQGQQPEQQGQQGQQQRQGEQQPGQQGQ

QGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQPPAQGGQQPGQEQGQQGQQPGQQG
QPGQQGQPGYYPTSPQQSGQEQQLEQWQQSGQGQPGHYPTSPLPQGGQPGYYPTSPQQIG
QGQQPGQLQOPTQGQQGQQPGQQGQQGQQPGEGQQGQQPGQQGQQPGQGGQPGYYPTSLQQSG
QGQQPGQWQQPGQGGQPGYYPTSSLQPEQQGQQGYYPTSSQQPGQGGPQPGQWQQSGQGQQGY
YPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQQGQQPRQWLQPRQGGQQGYYPTSP
QQSGQGQQLGQQGQQGYYPTSPQQSGQGQQGYYDSPHYHVS AEHQAA SLKVAKAQQLAAQLPA
MCRLEGGDALSASQ

>BAN29069.1 Putative low molecular weight glutenin subunit, partial [Triticum aestivum]
ENSHIPGLERPWQQQPLPPQQTFFPQQPLFSQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQPPFSQQQQPVLPPQQSPFPQQQQHQQLVQQQIPVVQPSIL
QQLNPCKLFLQQCSPVAMPQRLARSQMLQSSCHVMQQQCCQQLPQIPQQSRYEAIRAI
IYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQQSQQQLGQQPQQQQLAQGTFLQPHQ
IAQLEVMTSIALRTLPTMCRVNVPLYRTTTSVPFGVGTGVGGY

>AGR27935.1 Putative putative Pru du 6 allergen, partial [Prunus dulcis]
DNHIQSEAGVTESWNPSPDPQFQLAGVAVVRRRTIEPNGLHLSYVNA PQFIYIVRGRGVLG
AVFPGCAETFEDSQPQQFQQQQQQQQQFRPSRQEGGQQQQFQGEDQLDRHQKIRHIREG
DIIALPAGVAYWSYNNGEQPLVAVSLLDLSNDQNQLDQVPRRFYLAGNPQDEFNPQQQ

>AGS80276.1 Allergen Alt a 14; manganese superoxide dismutase [Alternaria alternata]
MELHHSKHHQTYITNLNGLLKTQAEAVSTSDITSQVSIQQGIKFNAGGHINHSLFWQNLA
PASSNEAKISAAPELVKQIQATWGEDDKFKEAFSAALLGIQSGSWGWLKTDMGKEQRLS
IVTTKDQDPVVGKGEVPIFGVDMWEHAYYLQYQNGKAA YVKNINVINWKTAEERYLGSR
ADAFSVLKASI

>AGT20779.1 Putative hemocyanin [Fenneropenaeus merguensis]
MRVLVVLGLIAAAAFQVVSADVQKQKDVLYLLHRIYGD IQDADLLATANSFDPAGGSYSD
GGAAVQRLKGLNDGRILLEQKHWFSLFNTRHRNEALLFDVLIHSSDWATFVGNAAFFRQ
KINEGEFVYALYVAVIHSPLTEDVVLPPLEYITPHLFTNSEVIEAA YRAKQKQTPGKFES
TFTGTKKNPEQRVAYFGEDIGLNTHHVTWHMEFPFWWDDEYGHHLDRKGENFFWVHHQLT
VRFDAERLSNYLDPV GELHWYKPIVDGFAPHTTYKYGGQFPARPDNVKFEDVDDVARIRD
MVIVESRIRDAIAHGYIIDS HGKQIDISNEKGIDILGDVIESSLYSPNVQYYGALHNTAH
IVLGRQGDPHGKFDLPPGVLEHFETATRDPSPFFRLHKYMDNIFKEHKDSLPPYTKADLEF
SGVSISEVNVVGELETYFEDFEYNLINA VD DAE GIPD VDISTYV PRLNHKEFTFKIDIEN
GGSPRLATVRIFAWPHKDNNGIEFTFDEGRWNAI ELDKFWVSLAGGKNSIERKSTESSVT
VPDVPSIDTLFAKTAAGGDGLSEFASATGLPNRFLLPKGNDKGLEFDLVVA VTDGDADAA
VPDLHLN TKYNHYGANGVYPDKRPHGYPLDRRVPDERVFEELPNFKHIQVKVFNHGEHIH
S

>AGT28425.1 Allergen Phod s 1; odorant-binding protein [Phodopus sungorus]
NDYAELEGKWD TIAIAADNDAKIKEEGPLRLYVRELYCNEDCSEMEVTFYVNANNQCSKT
TVIGYKQADGTYRTQFEGDNRFPVYATPENIVFTSKNVDRAGQETNLIFVVGKSQPLTP
EQHEKLVEFAHENNIPEENIHNVLATDTCPK

>AGW21344.1 Allergen lipid transfer protein [Prunus persica]
MAYSAMTKLALVVALCMVVSVP I AQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAVLPGKCGVSIPYKISASTNCATVK

>CAA61943.2 Allergen Tri a 12; profilin / partial [Triticum aestivum]
MSWQTYVDDHLCCEIDGQHLSAAILGHDGSVWTESPNFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKY MVIQGE PGVVIRGKKGTTGGITIKKTGMALILGIYDEPMTPGQC NLVVE
RLGDYLIDQGY

>CAA61944.2 Allergen Tri a 12; profilin / partial [Triticum aestivum]
MSWQAYVDDHLCCEIDGQHLSAAILGHDGSVWAESP NF PKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKY MVIQGE PGVVIRGKKGTTGGITIKKTGMALILGIYDEPMTPGQC NLVVE
RLGDYLIDQGY

>CAA61945.2 Allergen Tri a 12; profilin / partial [Triticum aestivum]
MSWKAYVDDHLCCEIDGQNLTS AAILGHDGSVWAQSPNF PKFKPEENAGIVKDFEEPGHL
APTGLFLGGTKY MVIQGE PGVVIRGKKGTTGGITIKKTGMALILGIYDEPMTPGQC NLVVE
RLGDYLIDQGY

>P86809.1 Putative RecName: Full=Non-specific lipid-transfer protein 2; AltName: Full=Allergen Api g 6.0101; AltName: Allergen=Api g 6 [Apium graveolens Rapaceum Group]

ATCSAVQLSPCLAAITKNTPPSAACCNKLKEQKPCLCGYLKDPNLKNYVNSPGARKTASS
CGVALKC

>4C9C_B Allergen Chain B, Crystal Structure Of The Strawberry Pathogenesis-related 10 (pr-10) Fra A 1e Protein (form A) [Fragaria x ananassa]

AMAGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKIT
FGEGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLVSAHPGGTIKTT
SKYHTKGDVEIKEEHVKAGKEKAAHLFKLIEGYLKDHPSEYN

>AHA36627.1 Allergen Cor a 9 allergen [Corylus avellana]

MAKLILVSFSLCLLVLFNGCLGIDVGLRRQQQRHFGEENLDRLNALEPTNRIEAEAGQIE
SWDHNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQSQQQGQQGQSQRSEQDRHQKIRYFQEGDIIALPAGVAHWCYNDGDSPPVAVSLLHT
NNYANQLDENPRHFYLAGNPDEHQRRQGGQQFGQRRRQQQHSRGKEGEQEQQGEGNNVFS
GFDAEFLADAFNVVDVTARRLQSNQDKRRNIVKVEGRLQMVRPERSRQEWERQERQERES
EQERERQRRQGGRRDVGFEETICSLRLMENIGSRSRADIYTEQVGRINTVNSNTLPVL
RWLQLSAERGDQREGLYVPHWNLNAHSVVYAIRGRARVQVDDNGNTVFDDELRRQGQVL
TIPQNFVAKRAESEGFVWAFKTNDNAQISPLAGRTSAIRALPDDVLANAFQISREEAR
RLKYNRQETTLARSSRSSSERMRRRSESEGRAEA

>AHA85706.1 Putative tropomyosin [Macrobrachium rosenbergii]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAA
DESERMVKLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDREDELVNEKEKYKSITDELDTFSELSGY

>AHB19225.1 Allergen Pun g 1; lipid transfer protein (LTP) type 1 [Punica granatum]

MASSGFLRLAGFVLVCMVAFASTVAEAGITCGQVSSSLAGCIQYARGNGAGPVPQACCNGI
RSLNSAAKTTTPDRQAACRCLKSLASSISGINYGLVAGAPGKCGVSIPYKIAPSTNCDNVK

>AHB19226.1 Allergen Pun g 1; lipid transfer protein (LTP) type 1 [Punica granatum]

MASKRFLNLPALFLCMVVAASVVESA VTCGQVTSSLTPCIPYARGVVAAPSAACCSGV
RSLNNAKTTTPDRQTACNCLKVIARSITGINYGRVGALPGKCGVSIPYKISPSTDCSRVK

>AHB19227.1 Allergen Pun g 1; lipid transfer protein (LTP) type 1 [Punica granatum]

MTGSGLFKLACAVFAVALVAAPIATEAAVTCGQVASSLAPCIPYARSAGGAVPPACCSGI
KTLDGMARTTPDRQATCKCLKSASTSISGINYGLVASLPAKCGVNIPYKISPSTDCARVK

>4BK6_B Allergen Chain B, Crystal Structure Of A Dimeric Variant Of Bet V 1 [Betula pendula]

GVFNCETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>4BK7_A Allergen Chain A, Crystal Structure Of A Variant Of The Major Birch Pollen Allergen Bet V 1 [Betula pendula]

GVFNFETETTSVIPAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>AHC08073.1 PR10 protein [Solanum lycopersicum]

MGVNTYTYESTTTISPTLRFKALVLDLFDNLVPKLLSQHVKNNETIEGDGGVGSIKQMNFV
EGGPIKYLKHKIHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGCVYKTTTE
YHTKGDHVVSEEHNVGRERIMNISKAVEAYLLANPSVYA

>AHC08074.1 Allergen Sola l 4; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Solanum lycopersicum]

MGVNTFTHESTTTIAPTRLFKGLVLDLFDLVPKLLSHDVKSIEIVEGDGGAGSIKQMNFV
EGGPIKYLKHKIHVIDDKNLVTKYSLIEGDVLDGKLESIA YDVKFEAAGDGGCVCKTTTE
YHTKGDHVVSEEHNVGKGAIDLKFAIEAYLLANPSVYA

>AHC94806.1 Putative allergen Der f 21 [Dermatophagoides farinae]

MKFIIFCAIVMAVS VSGFIVDVTEDKWRNAFDHMLMEEFEKMDQIEHGLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETA VSTIEILVK

DLAELAKKVKAVKSDD

>CCK33472.1 Allergen Can s 3; lipid transfer protein (LTP) Type 1 [Cannabis sativa]
ITCGQVASSLAPCLSYLKVGGAVPDGCCNDIKSLSGAAKTPADRQAACKCLKSAASSIKG
VNFNLASGLPGKCGVSIPYKISPSTDCSSVK

>CCW27997.1 Allergen Hev b 15; serine protease inhibitor [Hevea brasiliensis]
MASQCPVKDAWPELIGTNGDIAAGIETENANVKAIVLKKGSPMTMEYNLCRVLVFVDDN
RVVTQAPAIG

>AHF71027.1 Allergen Bet v 8; glutathione S-transferase [Betula pendula]
MADASVKEHLPTPLDATSNPPPIFDGTTTRYTCYTCPFAQRVWITRNYKGLQEIKLVPI
NLQNRPAWYKEKVYPENKVPALHNGKVIAGESLDLIKYVDINFEGPSLLPNDPAKKAFAE
ELVAYSDFNKTVFTSFKGDPVKEAGPAFDHLEKALHKFDDGPFPLGQFSAVDIVYIPFV
ERFQIFLLDALKYDITAGRPKLAKWIEELNKIDAYKPTKTDPKELVEFYKARFAAQQ

>P86980.1 Allergen Gad m 3; aldolase [Gadus morhua]
PHAYPFLSPEQKKEKEL

>P86979.1 Allergen Thu a 3; aldolase [Thunnus albacares]
PHAFPLTPEQKKEKELSDIAHKIVAPGKGILAADESTG

>B3A0L6.1 Allergen Gad m 2; enolase [Gadus morhua]
SITKIKAREIL

>P86978.1 Allergen Thu a 2; enolase [Thunnus albacares]
SITKIKAREILD

>P0DMB4.1 Allergen RecName: Full=Phospholipase A1 1; AltName: Full=Vespapase; AltName: Allergen=Dol Ves a 1.01; Flags: Precursor [Vespa affinis]

MMNLKYLFFCLVQALHYCYAYGDPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNLVLILIDWRVAAC
TNEMAGVKLAYYSYAASNTRLVGNYIATVTKMLVQQYNVPMANIRLIGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNNGYNQPGCGLPIIGETCSHTRAVKYFTECIRHECCLIGVPQSKNPQPVSKCTRNEC
VCVGLNAKTYPKTGSFYVPVESKAPYCNNKGKII

>P0DMB5.1 Allergen RecName: Full=Phospholipase A1 2; AltName: Full=Vespapase; AltName: Allergen=Dol Ves a 1.02; Flags: Precursor [Vespa affinis]

MMNLKYLFFCLVQALHYCYAYGDPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNLVLILIDWRVAAC
TNEMAGVKLAYYSYAASNTRLVGNYIATVTKMLVQQYNVPMANIRLVGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNNGYNQPGCGLPIIGETCSHTRAVKYFTECIRHECCLIGVPQSKNPQPVSKCTRNO
VCVGLNAKTYPKTGSFYVPVESKAPYCNNKGKII

>A4GFC3.1 Putative RecName: Full=Profilin-3; AltName: Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea europaea]

MSWQAYVVEHLMCEIESHHLSSAAILGHDGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEPAVIRGKKGAGGITIKKTGQALVVGIIYDEPMPGQCNMVVE
RLGDYLLEQQQ

>A4KA39.1 Putative RecName: Full=Profilin-1; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]

MSWQAYVDEHLMCDIDGQGQQLAASAIVGHDGSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEETVTPGQCNMV
VERLGDYLLEQGL

>A4KA45.1 Putative RecName: Full=Profilin-4; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]

MSWQTYVDEHLMCDIDGQGQQLAASAIVGHDGSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEETVTPGQCNMV
VERLGDYLIDQGL

>A4KA43.1 Putative RecName: Full=Profilin-6; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]

MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSAADFPQFKPEEITGIMKDFDEPGHL

APTGMFVAAAKYMVIQGEVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCDMVVG
RLGDYLLEQGL

>A4KA44.1 Putative RecName: Full=Profilin-3; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]

MSWQAYVDEHLMCDIDGQGQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLVEQGL

>A4GFC0.1 Putative RecName: Full=Profilin-3; AltName: Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea europaea]

MSWQTYVDEHLMCEIEGLHLASTAIGHAGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>A4KA40.1 Putative RecName: Full=Profilin-2; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]

MSWQAYVDEHLMCDIDGQGQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLAEQGL

>A4KA41.1 Putative RecName: Full=Profilin-5; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]

MSWQAYVDEHLMCEIDGHLSAAAIIGHGDSVWAQSSTFPQFKPEEIAAIKDFDEPGSL
APTGLHLGGIKYMVIQGESGAVIRGKKGAGGITVKKTSQALIFGIYDEPLTPGQCNMIVE
RLGDYLLKQGL

>A4K9Z8.1 Allergen RecName: Full=Profilin-2; AltName: Full=Allergen Bet v II; AltName: Full=Pollen allergen Bet v 2; AltName: Allergen=Bet v 2 [Betula pendula]

MSWQTYVDEHLMCDIDGQGQQLAASAIVGHGDSVWAQSSSFPQFKPEEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>BAO50870.1 Putative 13S globulin [Fagopyrum esculentum]

MLLGVLLCIMVSLAASETRSRGSSTMRARQCRLDQLTSSQPNQKIQSEGGTIEVWDEEED
QFQCAGVAAMRVTVPDLSLPSYYSSPRLVYVEQEGVFGLSLPGCPETYQSRGMEMRG
DEEEEEGFESGRRMTDAHQPTRRVRKGDVVALPQGTVHWC FNDGQEDLVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGSKEGKSQKLNFNNILSAFETKLLAEALGTEETVRKMQESD
ERGPIVKARKNMRQMVTPPRFGREQDEDETNGLEESFCNMRFRHNLGPRTEADIASRQAG
RIHSV DQNKLPILFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQMQIVDDNGQ
TVLDDRVSSEGS MVVIPQFYISTCRAGRDGLEYSFETTANPMSSPLNGHASVFKGMPIPV
LSNSYQISPRAA YELKQTRSHEHGLFSPFGGRS

>BAO50872.1 Putative 13S globulin [Fagopyrum esculentum]

MLLGVLLCIMVSLAASETRTRGSSTMRARQCRLDQLTSSQPNQKIRSEGGTIEVWDEEED
QFQCAGVAAMRVTVPDLSLPSYYSSPRLVYVEQEGVFGLSLPGCPETYQSRGMEMRG
DEEEEEGFESGRRMTDAHQPTRRVRKGDVVALPQGTVHWC FNDGQEDLVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGSKEGKSQKLNFNNILSAFETKLLAEALGTEETVRKMQESD
ERGPIVKARKNMRQMVTPPRFGREQDEDETNGLEESFCNMRFRHNLGPRTEADIASRQAG
RIHSV DQNKLPILFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQMQIVDDNGQ
TVLDDRVSSEGS MVVIPQFYISTCRAGRDGLEYSFETTANPMSSPLNGHASVFKGMPIPV
LSNSYQISPRAA YELKQTRSHEHGLFSPFGGRS

>AHL24658.1 Allergen Sal k 4.03 allergen [Salsola kali]

MSWQAYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMVIQSEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTGQCNMI
VERLGDYLIEQGL

>AHL24660.1 Putative Fra e 2.01 allergen [Fraxinus excelsior]

MSWQAYVDDHLMCDIEGHEGHRLTAAAIVGHGDSVWAQSATFPQFKPEEINGITTFDFNEP
GHLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPITPGQCNM
VVERLGDYLIDQGL

>AHL24661.1 Putative Fra e 3.01 allergen [Fraxinus excelsior]

MADDPQEVAQLERIFKRLDANGDGKISSSELGETLKLTLGSITPDEIQRMMAEIDTDGDGF
ISYEEFTDFARANRGLVKDVAKIF

>AHM25035.1 Putative icarapin variant 8 precursor, partial [*Apis mellifera carnica*]

FPGAHDEDSKEERMMPAPNLQGVWKASRISTTRYRRTKEMY

>AHM25036.1 Putative icarapin variant 9 precursor, partial [*Apis mellifera carnica*]

FPGAHDEDSKERTLPLPPRSSMDTW

>AHM25037.1 Putative icarapin variant 10 precursor, partial [*Apis mellifera carnica*]

FPGAHDEDSKEERKNVDTW

>AHM25038.1 Putative icarapin variant 11 precursor, partial [*Apis mellifera carnica*]

FPGAHDEDSKVL

>AHW81906.1 Putative 18 kDa winter accumulating protein [*Morus alba* var. *atropurpurea*]

MGVFTFDDEFSTVAPARFFKAAVLDADNLFKVPAPQAAKSAETVEGNGGPGTVKKITLP

DGKYVKQRLDSIDHDNFTYGHSHIIEGDVLSADIEKISHVTKFVASSSGGSIKVTTFHT

VGNAPVDEAKAKEGKEKAEGFLKLVGEYLEANPSAYN

>AHY02994.1 Allergen Fus p 4; aldolase [*Fusarium proliferatum*]

MSSSLEQLKATGTTVVSDSGDFVSIGKYKPDATTNPSLILAASKKAHEYAKLIDVAIDYA

KQKGGSIDQQVDDALDRLLVEFGKEILKIIPGKVSTEVDARYSFDTEASVNKALHLIELY

GEQGISKDRILIKIAATWEGIKAAEILQRDHGINTNLTLMFSLVQAIGAAEAGAYLISPF

VGRILDWFKASTKKEYSKEEDPGVQSVKTIFNYKKYGYNTIVMGASFRNTGEITELAGC

DYLTISPILLELLNSNEPVPKKLDASQAASLDIEKKSINDEALFRFDNFEDQMAVEKL

REGISKFAADAVTLKSILKEKLA

>AHY24177.1 Allergen Pro j 2; profilin / partial [*Prosopis juliflora*]

MSWQTYVDDHLMCEIEGTNNHLSAAAILGVDGVSVAQASAFPQFKPDEISAVVKDFDGP

TLAPTGLHLGGTKYMVIQGEQVIRGKKGPGGICVKKTGQALIGIYDEPVTGQCENMI

VERLGDYLVEQGM

>2MC9_A Allergen Chain A, Cat R 1 [*Catharanthus roseus*]

GSFTGSMNPVRVFFDMSVGGQPAGRIVMELFADTTTPRTAENFRALCTGEKGTGRSGKPLH

YKDSSFHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPNT

NGSQFFICTAKTEWLDGKHVVFQVVEGMDVVKAIIEKVGSSSGRTAKKVVEDCGQLS

>G5DC91.2 Putative RecName: Full=Thaumatococcus-like protein 1; AltName: Full=Acidic thaumatococcus-like protein;

AltName: Full=beta-1,3-glucanase; AltName: Full=Thaumatococcus-like protein 1b [*Manilkara zapota*]

ATFDVVNQCTFTVWAGASPGGGKQLDQGTWTITVAPGSTKARIWGRTGCNFDANGQGGKC

QTGDCNGLLQCQGYGSPNTLAEFSLNQPNLDYVDISLVDGFNIPMDFSPAAAGVCKDI

RCATDITAQCPAELQAPGGCANNPCTVYKTNEYCCTNGQGTGPTALSKFFKDRCPDAYSY

PQDDPTSLFTCPAGTNYKVVFVCPNLDA

>KEY78748.1 Putative allergen Asp F7 [*Aspergillus fumigatus* var. RP-2014]

MAPIFKSLALVSALFAAIISSAAPVNLDKREVDVWTTVTTVVWTTIDVTTTIYPTPQAPT

PPVVESTPTPTPSAAPEQAEPITSTQPETTKSQPTQPSVATFIPVAAAAAADSAAPVP

EAPAPQPATTAAPSTSTTTQAAPSAPPAANSNGSTEKAASSGYSGPCSKGSPCVGQLTYD

TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK

PTDLASRHLFGELADFSAGRIDGMSWYFN

>KEY81716.1 Allergen allergen Asp F4 [*Aspergillus fumigatus* var. RP-2014]

MQLKNSMLLLTALAAGSSVARLHGHERRHLHHAGEKREVGDTVYATINGVLVSWINEWSG

EAKTSDAPVVSQATPVSNAAAAAAASTPEPSSSHSDSSSSSGVVSADWTNTPAEGEYCTDG

FGGRTEPSGSGIFYKGNVGPWGSNIIIEVSPENAKKYKHVAQFVGSDDPWTVVFWNKIG

PDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAWGAAGDELPKDQFGGYSCTWGEFD

FDSKINHGWSGWDVSAIQAENAHHEVQGMKICNHAGELCSIISHGLSKVIDAYTADLAGV

DGIGGKVVPGPTLVLVNLDYKE

>AIL01316.1 Putative group 1 allergen Sor h 1.0102 [*Sorghum halepense*]

MGVNMMSWSMQVALVVALAFLVGGAWCGPPKVAPGKNITATYGSDWLEAKATWYGKPTGA

GPDDNGGACGYKDVNKAPFNSMGACGNLPIFKDGLGCGSCFEIKCDKPAECSGEAVVVHI

TDMNYEQIAAYHFDLAGTAFGAMAKKGEEELKRLKAGIIDMKFRRVKCKYGEKVTTFHVEKG

SNPNYLALLVKYVDGDDVGVVDIKEKGGDAYQPLKHSWGAIWRKDSKPIKFPVTVQIT

TEGGTKTAYEDVIPEGWKADTTYTAK

>AIL01317.1 Putative Sor h 1.0200 [Sorghum halepense]

MGSLANKIVAMAAVLAALVTGGSCAPKKFPPGNITTYNGQWLSARATWYGPNGAGPD
DNGGACGIKVNLPYPNGFTACGNVPIFKDGGKCGSCYEVRCCKEMPECSGNPITVFITDM
NYEPIAPYHFDFSGKAFGLAKPGLNDKLRHCGIMNVEFRRVRCKLGGKIMFHVEKGSNP
NYLAVLVKNVADDGNIVLMELEDKASPGFKPMKQSWGAVVWRFDTPKPVKGFPSIRLTSES
GKKLVAPNVIPATWKPDTLYNSNIQF

>AIL01320.1 Putative group 13 allergen Sor h 13.01 [Sorghum halepense]

MALGSNAMRVFFLLAMVVCAAAHAAGKAAPKEKEKGGKDDKSGGAPAEAPSGSAGGSDISKL
GAKGDGKTSTKALNEAWAAACGKEGPQTLMIKGDYLTGPLNFSGPCKGSVTIQLDGNL
LGTDDLAYSAYKTNWIEIEHVDNLVISGKGTLDGQKQVWDNNKCAQKYDCKILPNSLVLDY
VNNGEVSGITLLNAKFFHMNVFQCKGVTIKDVTVTAPGDSPTDGIHIGDSSKVTITGTT
IGVGDDCISIGPGSTGINVTGVTGCPGHGISVGLGRYKDEKDVTDINVKDCTLKKTNSG
VRIKSYEDAACVITASKLHYENIAMDDVANPIIDMKYCPNKICTAKGDSKVTVKDVTFK
NITGTSSTPEAVSLLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELA
CF

>AIL01321.1 Putative group 13 allergen Sor h 13.02 [Sorghum halepense]

MACTGNAMRAFFLLAFVCAAAHAGKDAPAKDGDAKAASGPGGSFDISKLGASGDGKKDSTK
AVQEAWTSACGGTGKQTLIPKGDYLVGPLNFTGPCKGDVTIQVDGNLLATDLSQYKGN
WIEILRVDNLVITGKGGKLDGQGPVWSKNSCAKKYDCKILPNSLVLDYVNNGEVSGITLL
NAKFFHMNVFQCKGVTIKDVTVTAPGDSPTDGIHIGDSSKVTITGTTIGVGDDCISIGP
GSTGINVTGVTGCPGHGISVGLGRYKDEKDVTDINVKDCTLKKTNSGVRIKSYEDAACV
ITASKLHYENIAMDDVANPIIDMKYCPNKICTAKGDSKVTVKDVTFKNITGTSSTPEAV
SLLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELACF

>AIO08848.1 Putative Der f 28 allergen [Dermatophagoides farinae]

MPSKTLKAPAIGIDLGTYSVGVFQNGSVEIANDQGNRTTPSYVAFNDTERLIGDAAK
NQVSMNPTNTIFDAKRLIGRRFDESSVKSDMKHWPVKVSESGKPKLEVEFKGERKRFWP
EEISAMVLTKMKETAAYLGQKVTDVVITVPAYFNDSQRQATKDAGVIAGLNVLRINEP
TAAAIAYGLDKKGGGKENVLIFDLGGGTFDVSFLTIDNGIFEVKSTAGDTHLGGEDFDNR
LVNHVQEFKRKFGKDIMSINKRALRRLRTSCERAKRTLSSSTQTSIEIDSLHEGIDFYST
ITRARFEELCSDLFRSTLEPVEKALRDAKLDKSKIDEIVLVGGSTRIPKIQKLLSDFNNG
KELNKSINPDEAVAYGAAVQAAILTGDNSNNVKDLLLDVAPLSLGIETAGGVMTTLIK
NTTIPTKQTQFTTYADNQPAVTIQVYGERAMTKDNNRLGTFDLTGIPPAPRGVPQIEV
TFDVDANGILNVSAVDKSTGRQNKITITNDKGRLSKADIEKMOVQAEQYREDDERQRERI
AAKNQLEAYAFQLKSTMEEEA VKSKLSEDRKTVLNKVDETLRWLDNSQLADKEEFEHRQ
KEIENACRPIMMKIYQQQQQHHPGANGSCGSNAYPGYNGFKSNNDGPVVEEVN

>AIO08850.1 Putative Der f 20 allergen, partial [Dermatophagoides farinae]

MVDQAVIDKLEAGFQKLQSSAECHSLLKKYLTRNVLDACKGRKTGMGATLVDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPIEDYHKGFKPTDKHPQTFDGDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYFPNCLTEAQYKEMEEKVKGQLNSFEGELKGTYYPLLGMKDQATQQQ
LIDDHFLFKEGDRFLQAANACRFWPVGCIFHNDNKTFLIWVNEEDHLRIISMQKGGDLK
QVFSRLINGVNHIEKLPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRRMGLTEYQAVKEMQDGILELIKIEKSM

>AIO08851.1 Allergen Der f 27 allergen [Dermatophagoides farinae]

MKFFLLSFVLMIVAATATYAAHVGSGSRDNNNNKPVPAEGFAKASNEFGFHLLKEVIQHR
SSSGSRGSSENVLFSPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNNGEYQTVAN
SVKQIQNQIKQSDQSNQFDWGNMLMVDQQIPVKDQYKKIIEQYDYGQVMSVDFRKESKNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGHH
GQEYKNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPRENYDLDKIRQSIN
STFVDEIVGQITGGQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHKAKLILNEQGTEAGAGTYIQMAVLSALETSHTRFDHPFMYFIRHLPTGQILF
LGEIHDF

>AIO08853.1 Allergen Der f 7 allergen [Dermatophagoides farinae]

MMKFLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEKSETIDPMKVPDHTDKFER
HVGILDFKGEAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY

KLGDLPNTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSVDLTAIFQDTRKEMTKVLAPAFKRELEKN

>AIO08860.1 Putative Der f 25 allergen [Dermatophagoides farinae]

MVRKFFVGGNWKMNRSRATNEDLIKTLSNGPLDPNTDVVVGVPISIYMAEVRQKLPKTIGV
AAQNCYKVPKGAFTGEISPAKIDVGAEWVILGHSERRNVFGESDQLIGEKEVEHALQEG
HVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWSKVVLAYEPVWAIGTGKTASPQQA
QEVHQKLRQWFSENVSPQIAETIRIYGGSVTANNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>AIO08864.1 Allergen Der f 11 allergen [Dermatophagoides farinae]

MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLGERLEEAEGSSESVTEMNKKRDSSELAKLRKLLLEDVHIESEETAHHLRQKH
QAAIQEMQDQLDQLQKAKNKSDEKQKQFQAEVFELLAQLETANKEKLTALKNVEKLEYTV
HELNIKIEEINRTVIELTSHKQRLSQENTELIKEVHEVKLQLDANHLKTQIAQQLEDTR
HRLEEEERKRASLENHAHTLEVELESKLVQLDEESEARLELERQLTKANGDAASWKSKEY
AELQAHAVEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
AHAQQLEKRV AQLEKINLDLKNKLEEV TMLMEQAQKELRVKIAELQKLQHEYEKLRDQRD
QLARENKKLTDDLAEAKSQLNDAHRRHEQEIEIKRLENERDELSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLK
KKYQAQITELESLDAANKANIDLQKTIKKQALQITAEQAHYDEVHRQLQQA VDQLGVT
QRRCQALQAELEEMRIALEQANRAKRQAEQLHEEA VVRVNELTTINVN LASAKSKLESEF
SALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLQEVRTLH
VRIEEVEANALAGGKRVIKLESRIRDVEIEVEEERRRHAETDKMLRKKDHRVKELLQN
EEDHKQIQLLQEMTDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAE
SNLSFIRAKHRSWVTTSQVPGGTRQVFTTQEETTNY

>AIO08866.1 Putative Der f 29 allergen [Dermatophagoides farinae]

MSWQSYVDNQCQHVDCITLAAIANIQDGSVWAKFEKDDKINPKELKTIADTIRQNPSGF
LETGIHIGGEKYICIQADNQLVRGRRGSSALCIVATNTCLLAAATVDGFPPGQLNNVIEK
LGDYLRSNY

>AIS82657.1 Allergen Rhi o 1; aspartyl endopeptidase [Rhizopus oryzae]

MKFFALSLVVSAAFSVFTDAAITKIPIKVVHETATEKLSRYSHTGEYLTQKYFNSQRNNQ
PMETFKNLNPDG SANHGVPLSNYLAQYYGEIEIGTPPQPFTVVFDTGSSNLWVPSTHCTS
IACFLHKRYDSASSRTYSENGTEFAIQYGTGSLEGFISQDTLSVGGIQVEDQGF AESTKE
PGLTFAFAKFDGIFGLGYDTISVKHTIPPFYHVMNRDLVDEPLFSFWLNDANKDQDNGGE
LIFGGVDEDFEGDIHWSVRRKGYWEITMENIKFGDDYVDIDPVGAAIDTGSSLLVAPT
TVAALINKELGAEKNWAGQYVDCNKVPSLPEFCFVFNGKDFCLEGKDYVLEVQGCISG
FMGMDIPEPAGPLWIVGDVFLRFYSVYDLGNRRVGLAPSK

>2MFK_A Allergen Chain A, Nmr Solution Structure Of Chitin-binding Domain From Dust Mite Group Xii Allergen
Blo T 12 [Blomia tropicalis]

GPLGSDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSSKSGSLWYITVMPCSIGTKFDP
ISRNCVLDN

>AJE61290.1 Allergen Pru p 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Prunus persica]

MGVFTYSDESTSVIPPPRLFKALVLEADTLIPKIPQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYNYTLVEGDALSDKVEKITYEIKLVASADGGSIKSTSN
YHTKGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>AJE61291.1 Allergen Pru p 1; pathogenesis-related protein / PR-10 / Bet v 1-like protein [Prunus persica]

MGVFTYETEFTSVIPPEKLFKAFILDADNLIPKIAPTA VKDTEILEGDGGVGTIKKVTFG
EGSQYGYVKHRIDGIDKDNLTYSYTLIEGDALSDVIEKIVYDIKLVASPNGGSIKVTISH
YHTKGDVEIKKEEQVKAGKEKAAGLFLVEGYLLANPDAYN

>CEJ95862.1 Putative albumin, partial [Pinus pinea]

CRDYLRRRREQPSERRCEELERMSPQCRCRAIQVLDQSQSYSITDDL FMDSEAAPNQR
RRRRESRGREEEEEAEERAA YLPETCNVRQPPRCVQRRSR YFTSGTDF

>AJO53282.1 Putative chymotrypsin-like protein [Blattella germanica]

MQYCAVLFFAAAVACAYGAELAALDPSTRVVGGTNAATGEFFPIVSLRSTSN SHFCGCSI
ISNYVITAAHCVSGSSASSVVVVAGTNTLNSGGTSYRVSRIVVHSGYNSNTIVNDIAL

RLSSAISYNSYVQPIALPAQGETSGAGVA AVASGWGYTSYPGWSL PNNLQKVSLSVISNT
QCSSYMNNIYSSSICASGGNGKGV CNGDSGGPLTAGGKLIGL VSWGRPCA VGYPDVYTRV
SSYVSWINQNAV

>AKH04310.1 Allergen Per a 11; alpha amylase [*Periplaneta americana*]

MKLFALLALV VLLAGVQS QKDPKLV PDESTLLRLFEWKFD DDIADDECERFLAPKGYAGVQV
SPVHKNLLYTATAPGLWERYQPMSYKLVSRSGDETA FRDMVRRCAVGVRIYVDVVLNHM
SGNWDNAVGTGGSTADTYNYSYPGVPYDHSDFHPY CILNDYQDPEIVRNCEL VGLHDLQDQ
SQDYVREKLIDFLNHLVDAGVAGFRVDA AKHMWPADLEYIYGKVNNRNSDAGYCGDSSPS
RYQEVIDLGGEAVSKFEYNGFGRVTEFKHSEQIGYAFRGN NRLEWYTYKPNWGLLPSGD
ALVFVDNHDNQRGGGNAILTYKTPKNYKMAIAFILAH PYGYPRVMSSFDFAHDQGPQD
SDKNILSPSINADGT CGNGWVCEHRWRQHANMVGF RNAVRGTEITNWWDNNGNHQIGFCRG
DRGFVAFNVEDNDLQTLQTCLPAGTYCDVISGSKNNRAHLGAEL VVAPNGEAFSVRLIS
DDDGVLAIHLEEKL

>AKH04311.1 Allergen Per a 12; chitinase [*Periplaneta americana*]

MKLTSLVAVGVGVFLAAALQTCKGFIRDFKTHRQLQEK GDDRAVFCYYGSWATYRWGIAT
FEVDNIDTRLCTHIVYAFTGLRDGVIVSLDEYNDYEENW GKGLMKKFTTLAKNNGIKALV
GLGGWNEGSVKYSEMAATQAGRETFADSAVAFLQKQGF DGLDLDWEYPARRGGVPEDKDN
FTLLLKTLSEKHLHARGLITVAVSADPKTAANA YDFPNVAKYADYITLMSFDYHTPSSDT
VTGLNSPLDSL PQDTGYNKLVKYSVNQWLKGGVPPNKL VLGVPYGRTYRLADPDQHG
LGAPILGPGTAGLYTQEAGFLAYEICSNPDWNV VWNDSYLYAYKDYQWLSYDDPNTI
TIKAQWVLEKNLGGVMVWSLESDDFHGNCGKGAYPL LTAVNKALGRL

>AKJ77985.1 Allergen Tri a 45; elongation factor 1 [*Triticum aestivum*]

MGKRKAAAKPPPRKGM DKLDTVFSCFPCNHGSSVECRIDLKNLIGEAN CQICQESFSTTA
NALTEAIDVYSEWIDECERVNTVEGDDGA

>AKJ77986.1 Allergen Tri a 42; unknown [*Triticum aestivum*]

EFTNTCMECLVCDVHVACGDFASNDVIDPAKFRRLGINDCL VNDGKSI EPSFPVSFQYGN
SFPYPMTVASASDCDN

>AKJ77987.1 Allergen Tri a 43; unknown [*Triticum aestivum*]

MTLVASSSLDPVWVEVLGDPLLRRLLRFIFCRATLSL FKASNDKAECLPSCVPPLPESV
GGESMLSQCCVMR VASFLGAADQFSFAEVTTPDIDEPTSSGGVDKEL

>AKJ77988.1 Allergen Tri a 41; mitochondrial ubiquitin ligase activator of NFKB 1 [*Triticum aestivum*]

EMGDGQLCVICLRKRRRAAFVPCGHLVCCNC AKRVELMDEPLCPVCRQDIQYMLRVYDS

>AKJ77990.1 Allergen Tri a 44; endosperm transfer cell specific PR60 [*Triticum aestivum*]

MAKLMCLCFIILTIAVVVSADECEGDRQEMIKQCAKYQQWPANPKVNP SDACCAVWQKAN
IPCLCAGVTKEKEKIWCMEKVAYVANFCKKPFPHGYKCGSYTFPPLA

>AKV72169.1 Putative allergen Koc s 1, partial [*Bassia scoparia*]

MAKCQAVFLLVGALCVLSLDDVAKAPVSQFHIQGLVYCDT CPYPSSYVLP MLEGATVKLE
CRNITAGTQTFKAEAVTDKVGQYSIPVDGDFEDDICEIELLKSPDNQCSEVSHDVYAKQS
AKVSLTSNNGEASDVRSANALGFM RKEPLEECEPEVLKELDLYDVKAN

>XP_013623213.1 Allergen Bra o 3; lipid transfer protein (LTP) type 1 [*Brassica oleracea* var. *oleracea*]

MASALSFFTCLVLTVCIVASVDA AISCGTVTSNLAPCAVYLMKGGPVPAPCCAGVSKLNS
MAKTTPDRQQACKCLKTAAKNVNPSLASSLP GKCGVSIPYPISMSTNCDTVK

>ALA65345.1 Allergen Der p 24; ubiquinol-cytochrome c reductase binding protein (UQCRB) [*Dermatophagoides pteronyssinus*]

MVHLTKTLRFINNPGRKFFYYGLQGYNKYGLYDDFYDYTDPAHLEAVRRLPPDLYDQHT
YRVIRASQLEITKQFLPKEQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWV NFLSKD

>ALF39466.1 Allergen Pla a 3; lipid transfer protein (LTP) type 2 [*Platanus x acerifolia*]

AAITCGQVVSKLTNCLSYLRSGGTVSTACNGV TSLNKMANSTSDRQAACNCLKSAYKSI
SGIKLQYSQSLAGKCGVNLPYKISPDI DCSKVK

>XP_005902099.2 Allergen Bos d 11; beta-casein [*Bos taurus*]

MPLNTIYKQPQNQHHSAPPSLLVLYFGKKELRAMKVLILACLVALALARELEELNVPG
EIVESLSSSEESITRINKKIEKFQSEEQQTEDELQDKIHPFAQTQSLVYPPFGPIPNLSL
PQNIPPLTQTPVVVPPFLQPEVMGVSKVKEAMAPKH KEMPFKYPVEPFTESQSLTLTDV
ENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSLSQSKVLPVPQKAVPYPQRDMPIQAF

LLYQEPVLPVVRGPFPIIV

>Q6EBC1.1 Conglutin beta 2; Lup an 1 [Lupinus albus]

MGKMRVRFPTLVVLGIVFLMAVSIGIAYGEKDVLSHERPEEREQEEWQPRRQRPQSRR
EEREQEQQGSPSYPRRQSGYERRQYHERSEQREEREQQQGGSPYSRRQRNPYHFSSQ
RFQTLTKNRNGKIRVLERFDQRTNRLLENLQNYRIVEFQSKPNTLILPKHSDADYVLVVLN
GRATITIVNPDQRQAYNLEYGDALRIPAGSTS YILNPDDNQKLRVVKLAIPINNPYFYD
FYPSSTKDQQSYFSGFSRNTLEATFNTRYEEIQRILGNEDEQEYEEQRRGQEQSDQDEG
VIVIVSKKQIQKLTKHAQSSSGKDKPSDSGPFNLSNEPIYSNKYGNFYEITPDRNPQVQ
DLNISLTYIKINEGALLPHYNSKAIYVVVVDEGEGNYELVGIRDQQRQQDEQEKEEEV
IRYSARLSEGDIFVIPAGYPISINASSNLRLLLGFGINADENQRNFLAGSKDNVIRQLDRA
VNELTFPGSAEDIERLIKNQQQSYFANGQPQQQQQQQSEKEGRRGRRGSSLPF

>P85984.1 Profilin; Pollen allergen Beta v 2; [Beta vulgaris]

YMVIQGEPGA VIRLGDYLIDQGL

>4X9U_A Chain A, Crystal Structure Kiwifruit Allergen Act D 5 [Actinidia deliciosa]

ISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHICRGTTXSXQPGGCKPSGTLTCRGKS
HPTYDCSPPVTSSTPAKLTNNDFSEGGDDGGPSECDES YHNNNERIVALSTGWYNGGSRG
GKMIRITASNGKSVSAKVVDECD SRHGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNVG
VVDITWSMA

>AKV72168.1 Ama r 1, partial [Amaranthus retroflexus]

MAKCQAVFLLVGALCVLSLDDVAKAPVSQFHIQGLVYCDTCRIQFMTRISTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLSNNGEASDIRSANALGFMRKEPLEECPEVLKELDLYDVKAN

>BAT62430.1 Ani s 14 [Anisakis simplex]

MQVKCIAKYGEQFCSSMLSVCSMLSIPWKNDSVQRLPPGIVGCAQTTPVVCRAKYSE
SFCNRLGAACSKVTGTDIPAFSRGGGEYRLPEAISQCIAQENIVAMCYASKCSQQCDGWR
VTCNINGGMAQLTPEQVTCFEKQSGLVALKTSCRNTNPLNAQCRQIREPFETPKCTTAIPY
LKISQTVINGQIHVQQLVSGGMTGVQVSKTVETVIKT

>F5B8V9.1 Conglutin beta 1; Lup an 1 [Lupinus angustifolius]

MAKMRVRLPMLILLG VVFLLAASIGIAYGEKDFTKNPPKEREHEPRQQPRPRQEE
QEREHRREEKHGDGEP SRGRSQSEESQEEEHERRREHREEREQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQQSSSSGSRGSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLKYDFYPSSTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDELQENEKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSSESGPFNLSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINEGALLPHYNSKAIYVVVVDEGEGNYELVGIRDQQRQ
QDEQEYEEYEQGEEVRRYSKLSKGDVFIIPAGHPLSINASSNLRLLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGRR
GPISSILNALY

>F5B8W0.1 Conglutin beta 2; Lup an 1 [Lupinus angustifolius]

MANMRVKFPTLVLLL GIVFLMAVSIGIAYGEKNAIKNHERPQEREQEERDPRQQPRPRHQ
EEQEREHGREERNREPSRGRSESEESREEEREQRREPSRGREQEQQPQHGREEEEEEWQ
PRRQRPQSRREEREQEQQSSSSSGRQSGYERREEREEREQQEQDSRSESRRQRNPYYFS
YERFQTLTKNRNGQIRVLERFDQRTNRLLENLQNYRIVEFQSKPNTLILPKHSDADYILVV
LNGRATITIVNPKRQAYNLEHG DALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPNGF
YDFYPSSTKDQQSYFNGFSRNTLEATFNTRYEEIQRILGNEDEQEYEEQRRGQEQSDQDEG
QGVIVRVSKKQIQELRKHAQSSSGKPKPSSESGPFNLSDEPIYSNKFGNFYEITPDRNPQ
AQDLDISLTFIEINEGALLPHYNSKAIYVVVVDEGEGNYELVGIRDQERQQDEQEYEEV
RRYNAKLSEGDIFVIPAGHPISINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDKE
VKQLTFPGSVEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGRRGLSFPFRSLFTKLLS
TIM

>F5B8W1.1 Conglutin beta 3; Lup an 1 [Lupinus angustifolius]

MAKMRVRFPTLVLLL GIVFLMAVSIGIAYGEKNVLSHERPQEREQEERDPRQQPRPHHQ
EEQEREHRRESEESQEEEREQRREPRREREQEQQPQHGREEEEEEWQPRRQRPQSRREER

EQEQQSSSSRRQSGYERREQREEREQEQQSRSRSDRQRNPYYFSSERFQTLYRNRNG
QIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNGSATITIVNPD
KRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPNGNFYDFYPSSSKDQQS
YFSGFSKNTLEATFNTRYEEIQSILLGNEDEQEDDEQWHGQEQSHQDEGVIVRVSKEQVQ
ELRKYAQSSSRKKGKPYESGPFNLSNKPIYSNKFGNFYEITPDRNPQAQDLDISLTFIEI
NEGALLPHYNSKAIFVVVDEGEGNYELVGIRDQQRQQDEQEVERRYSARLSEGDFVIP
AGHPISINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDREVKGLIFPGSAEDVERL
IKNQQQSYFANAQPQQQQQREREGRRGRRGHISILSTLY

>F5B8W2.1 Conglutin beta 4; Lup an 1 [Lupinus angustifolius]

MIKMRVRFPTLVLLLGIVFLMAVSIGIAYGEKNVIKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRREEERDREPSRGRSESEESREEEREQRREPRREREQEQQPQHGRREEEEEWQ
PRRQRPQSRREEREQEQQSSSSRRQSGYERREEREQEQQSRSRSDRQRNPYYFSSER
FQTLYRNRNGQIRVLERFDQRTDRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNG
SATITIVNPDKRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPNGNFYDF
YPSSSKDQQSYFSGFSRNTLEATFNTRYEEIQRILLGNEDEQEDDEQRHGQEQSHQDEGV
IVRVSKEQVQELRKYAQSSSRKKGKPSKSGPFNLSNKPIYSNKFGNFYEITPNRNPQAQD
LDISLTFIEINEGALLPHYNSKAIFVVLVDEGEGNYELVGIRDQQRQQDEQEVERRYSAR
LSEGDFVIPAGHPISINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDTEVKGLTF
PGSTEDVERLIKNQQQSYFANAQPQQQQQREREGRRGRRGHISILSTLY

>F5B8W3.1 Conglutin beta 5; Lup an 1 [Lupinus angustifolius]

MAKMRVRFPMMLVLLLGIVFLMAVSIGIAYGEKDVKNPERPEERQEEERDPRQPPRSRQQ
EEQEREHRREKERDREPSRGRSESKQSQEEERERRKEHDREREQEQQPQYGRRHEEEEEKG
EEEEEGQARRQRPQRRREEREQEQQSSSESRRQSGDERRHRHEKREQREEREQEQQSSSG
RQSDYGRRQRHEGREQREEREQEQQSSSESHRLRNPYYFSSERFQTRYKNKNGQIRVLER
FDQRTNRLENLQNYRIVEFQSRPNTLILPKHSDADYILVVLNGRATITIVNPDKRQAYNL
EYGDALRLPAGTTSYILNPDDNQDLRVVKLAIPINNPNGKFDYDFYPSRTKDQQSYFSGFSK
NTLEATFNTHYEEIQRILLGYEDEQEDEEQRREQEQQSHQDEGVIVRVSKEQIQELRKHAQ
SSSRKKGKPSGPFNLSNEPIYSNKFGNFYEITPDRNPQVQDLDISLIFTEISEGALL
PHYNSKAIFVIVVDEGEGNYELVGIRNQQRQQDEQEVEEVRSYNARLSEGDFVIPAGHP
LSINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDREVKELIFPGSAEDVERLIRNQ
QQSYFANAQPQQQQQREKEGRRGRRGPISILSALY

>F5B8W5.1 Conglutin beta 7; Lup an 1 [Lupinus angustifolius]

MARMRVRFPTLVLLLGILFLMAVSIGIAYGEKDVKNHERPGEREHEERDPRQQPRPRKQ
EEQEREHRREEEHDRDPSRGRRESEERQEEERERRREPCREREQEQQPQHGRREEEEEEEE
EWQPRRLRPQSRKEEREQEQQSSSSSRKQSGYERRQYHERREQRDEKEKEQDSRSDRQR
RNPYHFSSERFQTRYRNRNGQIRVLERFDQRTNRLENLQNYRIVEFQSNPNTLILPKHSD
ADYILVVLNGRATITIVNPDKRQAYNLEYGDALRVPAAGTTSYILNPDDNQNLRVVKLAIP
INNPSNFYDFYPSSTKDQQSYFSGFSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRG
QEQSYQDEGVIVRVSKEQIQELRKHAQSSSRKKGKPSGPFNLSNESIYSNKFGNFYEI
TPERNPQVQDLDISLTFTEINEGALLPHYNSKAIFVIVVDEGEGNYELVGIRDQQRQQD
EQEEEEEEVERRYSARLSEGDFVIPAGYPISVNASSNLRLLLGFGINANENQRNFLAGSED
NVISQLDREVKELTFPGSAQDVERLIKNQQQSYFANAQPQKQREKEGRRGRRSLISSI
LSTLY

>B3EWP3.1 Defensin 1; Ara h 12 [Arachis hypogaea]

KTVAGFCIFFLVLFLAQEGVVKTEAKLCNHLADTYRGPCFTNASCDHCKNKEHFVSGTC
MKMACWCAHNC

>B3EWP4.1 Defensin 2; Ara h 13.0101 [Arachis hypogaea]

VQKRTHMEKKMAGFCIFFLILFLAQEYGVGEGKECLNLSDKFKGPCLGSKNCDHHCARDIE
HLLSGVCRDDFRCWCNRKC

>C0HJZ1.1 Defensin 3; Ara h 13.0102 [Arachis hypogaea]

MEKKMAGFCIFFLVLFLAQEYGVGEGKVCLNLSDKFKGPCLGTKNCDHHCARDIEHLLSGVC
RDDFRCWCNRNC

>1510259A H2 proteinase [Protobothrops flavoviridis]

ERFPQRYIELAIVVDHGMYYKKYNQNSDKIKVRVHQMVNHINEMYRPLNIAISLNRLQIWS

KKDLITVKSASNVTLSEFGNWRETVLLKQQNNDCAHLLTATNLNDNTIGLAYKKGMCNPK
LSVGLVQDYSPNVFMVAVTMTHELGHNLMGMEHDDKDKCKCEACIMSDVISDKPSKLFSDC
SKNDYQTFLTKYNPQCILNAP

>3S18_B Chain B, Crystal Structure Of A Plant Albumin From Cicer Arietinum Showing Hemagglutination [Cicer arietinum]

TKTGYINAAFRSSRNNEAYLFINDKYVLLDYAPGTSNDKVLVYGPSFVRDGYKSLAKTIFG
TYGIDCSFDTEYNEAFIFYENFCARIDYAPHSKDKKIISGPKKIADMFPFFKGTVFENGI
DAAFRSTKGKEVYLFKGDKYARIDYLTNRLVQNKISDTGFPCLRGTIFEAGMDSAFASH
KTNEAYLFKGEYYARINFTPGSTNDIMGGVKKTLDYWPSLRGIIPLE

>4ZCE_A Chain A, Crystal Structure Of The Dust Mite Allergen Der P 23 From Dermatophagoides Pteronyssinus [Dermatophagoides pteronyssinus]

SFTKFECPSRFGYFADPKDPHKFYICSNWEAVHKDCPGNTRWNEDEETCT

>5E1R_A Allergen Car i 2; 7S globulin/ vicilin-like protein [Carya illinoensis]

MSREEEQQRHNPYYFHSQGLRSRHESGEDEVKYLERTERTELLRGIENYRVVILEANPN
TFVLPYHKDAESVIVVTRGRATLTFVSQERRESFNLEYGDVIRVPAGATEYVINQDSNER
LEMVLLQPVNPGQFREYYAAGAQSTESYLRVFSNDILVAALNTPRDRLERFFDQQEQR
EGVIIRASQEKLRALSQHAMSAGQRPWGRRSSGGPISLKSQRSSYSNQFGQFFEACPEEH
RQLQEMDVLVNYAEIKRGAMMVPHYNSKATVVVYVVEGTGRFEMACPHDVSSQSYEYKGR
REQEEEESTGQFQKVTARLARGDIFVIPAGHPAITASQENLRLVGFINGKNNQRNF
LAGQNNIINQLERAKELSFNMPREEIEEIFERQVESYFVPMERQSRRGQGRDHPLASIL
DFAGFF

>5EM0_A Chain A, Crystal Structure Of Mugwort Allergen Art V 4 [Artemisia vulgaris]

GSWSWQTYVDDHLMXDIEGTGQHLTSA AIFGTDGTWAKSASFPEFKPNEIDAIKEFNE
AGQLAPTGLFLGGAKYMIQGEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQCN
MVVERLGDYLLDQGM

>5EM1_A Chain A, Crystal Structure Of Ragweed Allergen Amb A 8 [Ambrosia artemisiifolia]

GSWSWQTYVDEHLMXDIEGTGQHLSAAIFGTDGNVWAXSSSFPEFXPDEINAIKEFSE
PGALAPTGLFLAGAXYMIQGEPGA VIRGXXGAGGICIXXTGQAMVFGIYEPEVNPQGQCN
MVVERLGDYLV DQGM

>5EV0_A Chain A, Crystal Structure Of Ragweed Profilin Amb A 8 In Complex With Poly- Pro14 [Ambrosia artemisiifolia]

SGSWQTYVDEHLMXDIEGTGQHLSAAIFGTDGNVWAKSSSFPEFKPDEINAIKEFSEP
GALAPTGLFLAGAKYMIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEPEVNPQGQCNM
VVERLGDYLV DQGM

>A0A161AT60.1 Non-specific lipid-transfer protein 1; PsLTP1; Pis s 3 [Pisum sativum]

MARSMKLACVALVICMVVIAPMAEAALSCGTVSADMAPCVTYLQAPNNASPPPPCCAGVK
KLLAAATTPDRQAACNCLKSAAGSIPKLNTNNAALPGKCGVSIPYKISTSTNCNTVRF

>AAU43733.1 Profilin [Citrullus lanatus]

MSWQAYVDDHLMCEIEGNHLTSAIIGQDGSVWAKSENFQPKPEEITGILNDFNEPGTL
APTGLYIGGSKYMIQGEPGA VIRGKKGPGGVTVKKTALALVIGIYDEPMTPGQCNMIVE
RLGDYLIEQGL

>ACX47057.1 Allergen Fra a 1; PR10 protein [Fragaria ananassa]

MGVFTYETEFTSVIPPPRLFKAFILDADNLIPKIAPQAVKCAEIIEGDGGVGTIKKITFG
EGSQFGSVTHKIDGIDKENFVYSYSLIEGDALSDKIEKISYETKLVSSSDGGSIIKSTSN
YHTKGDVEIKEEHVKAGKEKASHLFLKVEGYLLANPNEYC

>ACX47058.1 Fra a 1 (isoform) [Fragaria x ananassa]

MGVFTYSEFTSVIPPPKLFKAFVLDADNLIPKIAPQAVKSAEIIEGDGGVGTIKKIHLG
EGSEYSYVKKHKIDGIDKDNFVYSYIIEGDAIGDKIEKISYEIKLVASGGGSIKSTSHY
HTKGEVEIKEEHVKAGKERAAGLKFIIENHLLAHPEEYN

>ADV71357.1 metalloproteinase PMMP-3 [Protobothrops mucrosquamatus]

MIEVLLVTICLAVFPYQGSSIIESGNVNDYEVVYPRKVSALPKGAVQPKYEDTMQYELK
ENGEVVLHLEKNKGLFSEYDSETHYSPDGREITTYPSVEDHCYHGRINDADSTASIS
ACDGLKGYFKLQGQTYLIEPLKLPDSEAHAVFKYENIEKEDEAPKMCGVTQNWESESIK
KASQLYLTPEQQRFPQRYVKLAIVVDYRMYIKYNRDSNKITVRVHEMVNHNEMYKPLNV

AITLSLLRIWSTRDLITVQSDSKVTLGSGFDWRKTVLLKQQSHDCAHLLTDITFTKNVIG
VAYKKGMCDPKLSVGLVQDYSSNVFVVA AIMTHELGHNLMGMEHDEDEDENGKKCKCDTCIMS
PAISDPPAQLFSDCSKNDYHTFLTNSKPQCILNAPLRTDTVSTPVSUNEPL

>AEB54655.1 Allergen Pro c 8; triosephosphate isomerase [*Procambarus clarkii*]
MANQRKFFVGGNWKMNDRAGIDSII SFMKGPLSADTEVVVGCPCYLMYTREHLPSNIG
VAAQNCYKVAKGAFTEISPSMIKDCGCEWVILGHSERRNVFNEPDTLISEKVGHALEAG
LKVIPCIGEKLEERESNRTEE VVFAQMKALVPNISDWSRVVIA YEPVWAIGTGKTATPEQ
AQEVHAKLRQWLRDNVNAEVADSTRIIYGGSVTPGNCKELAKTGDIDGFLVGGASLKPDF
VQIINARD

>AFJ80778.1 sarcoplasmic calcium-binding protein [*Scylla paramamosain*]
MAYSWDNRVKYVVRYMYDIDNNGYLDKNDFECLALRNTLIEGRGEFNSDAYANNQKIMSN
LWNEIAELADFNKDGQVTVDEFKQAVQNLCCGKSFDFPPCFKTVIGRLFKTIDINGDGL
AGVDEYRLDCISRSASFSSVKEIDDAYAKLCTDDDDKKAGGISLNRYQELYAQFISNPDEKC
NAVYLFGLKEVQ

>AHZ10957.1 Fra a 1.06 allergen [*Fragaria x ananassa* subsp. *ananassa*]
MGVFTYETEFTSVIPPPRLFKAFILDADNLIPKIAPQAVKCAEIVEGDGGVGTIKKITFG
EGSQFGSVTHKIDGIDKENFVYSYSLVEGDALSDKIEKISYETKLVASSDGGSVIKSTSN
YHTKGDVEIKEEHVKAGKEKASHLFLKVEDYLLANPNEYC

>AHZ10958.1 Fra a 1.07 allergen [*Fragaria x ananassa* subsp. *ananassa*]
MGVFTYETEFTSVIPPPRLYKAFVLDADNLIPKIAPQAVKSTELVQGDGGVGTIKKIHLG
EGSEYSYVKHQIDGLDKDNFVYNYSIIEGDAIGDKVEKISYEIKLVASPSGGSIKSTSH
YHCKGEVEIKEEHVKAGKERAAGLFKIENYLLGNPDAYN

>AHZ10959.1 Fra a 1.08 allergen [*Fragaria x ananassa* subsp. *ananassa*]
MGVFTYETEFTSVIPPPRLYKAFVLDADNLIPKIAPQAVKSAEIVQGDGGVGTIKKIHLG
EGSEYSYVKHQIDGLDKDNFVYNYSIIEGDAIGDKVEKISYEIKLVASPSGGSIKSTSH
YHCKGEVEIKEEHVKAGKEKAAGLFKIENHLLANPEAYN

>AHZ97469.1 Allergen Alt a 15; serine protease [*Alternaria alternata*]
PQRQMDSAKEVPNSYMMVVFKKHVKDASKHHDWVQSVH SKNNEERMELRKRSSQFPVTTEV
FDGLKHVYEMAGMKGYSGHFDDETIEAIRNHPDVDYIERDSEVHTLGHDEPEIEKNSPWG
LARISHRDSLSFGTWNKYLYAADGGEGVDVYVIDTGTNTKHVDFEGRAKWGKTIPNGDAD
EDGNHGHTHCSGTVAGKKYGVAKKAHVYAVKVLRSNGSGTMSDVVKGVEYAAKAHSDTVQ
AAKDGGKKKGFKGSAAANMSLGGGKSTL DLAVNAAVDAGIHFAVAAGNDNADSCNYS PAAA
ENAVTVGASTLLDERAYFSNYGKCNDIFAPGLNILSTWIGSEHATNTISGTSMASPHIAG
LLAYMLSLQPAKDSAYAVADITPKKLANLISVATV GALSDVPRNTKNILAWN GGGSSNY
TEIVEKGGYTVKKA AEKNEEESEFRITIPSLSEIEDDFEKAKESAGR NAHRVGGK LQHLE
AEIEDFIAEEMESMFEKV KERVASQKL

>AJA79001.1 Allergen Fus p 9; serine protease, partial [*Fusarium proliferatum*]
DKCDGETERQAPWGLARISHRNTLNFGTFNKYL YSSDGGEGVDA YIVDTGTNV DHDVDFEG
RAHWGKTIPSGDADEDGNHGHTHCSGTVAGKKYGVAKKANVYAVKVLRSNGSGSMSDVVK
GVEFAATSHLEQKKKAKDGKRKGFKGSVANMSLGGGKTQALDAAVNAAVRTGIHFAVAAG
NDNADACNYS PAAASEPVTVGASALDDSRAYFSNYGKCTDIFAPGLNIQSTWIGSKYAVN
TISGTSMASPHIAGLLAYYLSLQPAEDSEYALASITPKKLANLISVATEDALSDIPS DT
PNLLAWN GGGCSDYKKIVEAGSYKVKAAPSSRVEEIKHAVEQEVNLVSGKLT TGAKELGS
KAEKFSKKIHEL VDEELEEF LKELNL

>AK068307.NT Translation from Accession AK068307: *Oryza sativa* Japonica Group cDNA clone:J013136I11, full insert sequence [*Oryza sativa* Japonica Group]

MKLVSIYLLVLCVVGANELLVVAASGNDGGGGRFVYSGFAGANLTL DGTATVTPAGLIEL
TNGTLQLKGHAFHPTPLRFGFGSGGGGGGDGVVRSFSASFVFGILSAYPDMSAHGIVFL
VSPTTDFSAALASQYLGLVNVTSNGDARNRIFAVELDTLQQDEF RDINDNHVGV DINGLV
SLQSTSAGYYAADINGGFRNLTLISHEAMRVWVDYDAGDARIDVTLAPLAVAKPVRPLI
SAAYNLSSVITDTAYVGFSSATGSFN SRHYVLGWSFAVDGGPAPAIDVAKLPKLPREGPK
ARSKFLEIFLPIASAAVVLAMGILVILLVRRRKRYTELREDWEVEFGPHRFYPYKDLHHAT
QGFESKCLLG VGGFGRVYKGVLPNSNVEIAVKRVSHDSSQGVKEFVAE VVSLGRLQHCNL
VRLLYCRRKGELMLVY EYMSNGSLDKYLHGQDNKPTLSWAQR FQIIKDIASGLLYLHEE

CDKVVIHRDIKASNVLLDNEMNARLGDGFLARLYDHGEDPQSTHVVGTTIGYLAPELGRTS
KATPLTDVFAFGTFILEVTCGRRPIYHDSHGTQVMLVDWVLDHWHKQSLVDTVDLKLHGE
FDVGEACLVLKLLCSHPFINARPDMMRRVMQYLKREVALPELMPTSMSFHMLALMQNDG
FDSYVQSYSSNSKGNISTATSSLLEEG

>AK119653.NT Translation from Accession AK119653: *Oryza sativa Japonica Group* cDNA clone:002-130-H01, full insert sequence [*Oryza sativa Japonica Group*]

MDRVRGCAFLGLVLLAGSLFAFSVAKEETKKLGTVIGIDLGTTYSCVGVYKNGHVEIIAN
DQGNRITPSWVAFTDSERLIGEAAKNQAAVNPRTIFDVKRLIGRKFEDKEVQRDMKLV
YKIVNKDGKPYIQVKIKDGENKVSPEEVSAMILGKMKETAAYLGKKINDAVVTVPAYF
NDAQRQATKDGVIAGLVARIINEPTAAAIAYGLDKKGGKKNILVFDLGGGTFDVSILT
IDNGVFEVLATNGDTHLGGEDFDQRIMEYFIKLIKKKYSKDISKDNRALGKLRREAERAK
RALSNQHQRVEIESLFDGTDSEPLTRARFEELNNDLFRKTMGPVKKAMDDAGLEKSQI
HEIVLVGGSTRIPKAQQLLRDYFEGKEPNKGVNPDEAVAYGAAVQGSILSGEGGDETKDI
LLLDVAPLTLGIETVGGVMTKLIPRNTVIPTKKSQVFTTYQDQQTTSIQVFEGERSMTK
DCRLLGKFDLSGIPAAPRGTPQIEVTFEVDANGILNVKAEDKGTGKSEKITITNEKGRLS
PEEIDRMVREAEFEAEEDKKVKERIDARNQLETYVYNMKNTVGDKDKLADKLESEEKEKV
EEALKEALEWLDENQTAEKEEYEEKLKEVEAVCNPIISAVYQRTGGAPGGGADGEGGVDD
EHDEL

>AK242260.NT Translation from Accession AK242260: *Oryza sativa Japonica Group* cDNA, clone: J075184G19, full insert sequence [*Oryza sativa Japonica Group*]

MKIIFV FALLAIAACSASAQFDVLGQSYRQYQLQSPVLLQQQVLSPYNEFVRQQYGIAAS
PFLQSAAFQLRNNQVWQQLALVAQQSHYQDINIVQAIQQLQLQQFGDLYFDRNLAQAQA
LLAFNVPSRYGIYPRYYGAPSTITTLGGVL

>AKF12278.1 Par h I precursor [*Parthenium hysterophorus*]

MAKSSTSYLVLLLVLVVAISEIASVNGKVCEKPSKTWFGNCKDTEKCDKRCMEWEGAKH
GACHQRESKYMCFYFDCDPKKNPAPPAGPTGTPAPPGGGEGDAPPGGGAPPAGG
EGGGGGEGGGGAPPAGGEGGGGGGDGGGGAPPAA

>AKV72166.1 allergen Aca f 1, partial [*Acacia farnesiana*]

DDVPKPPVSQFHVQGLVYCDTCRYPFITEASPIMEGATVKLECRNITAGTQTFKAEAVTD
KVGQYSIPVDGDHEDDICEIELVKSPDNQCSEIPHVDVYAKQSAKVSLSNNGEASDV
NSALGFMRKEPLPECPEVLKEKLDMYDVKAN

>AKV72167.1 allergen Pro j 1, partial [*Prosopis Juliflora*]

DDVAKPPVSQFHIQGLVYCDTCRIQFMTRVSTIMEGATVKLECRNITAGTQTFKAEAVTD
KVGQYSIPVNGDFEDDICEIELVKSPNSDCSEIPHVDVYAKQSAKVSLSNNGEASDIR
NSALGFMRKEPLKECPEVSKEPLDMYDVKAN

>ALM30773.1 triose phosphate isomerase [*Amphioctopus fangsiao*]

MGRKFFVGGNWKLNNGNKKSIDGIIEFMNAGPLNADTEVVVGGPPSCYLEYVRSKLGKGNIGV
AAQNCYKVPSPAFTGDISPAMIKDIGLRYVILGHSERRNVFGETDELIGEKIEHAVSEGL
IVIACIGEKLEEREAGKTEEVVFSQTKTIKHTKDWSKVIAYEPIWAIGTGKTATPEQA
QSVHASLRKFISENASKEIADNVRILYGGVSAAANCKELGQKPDIDGFLVGGASLKP
DFVKIVNARA

>ANQ43386.1 Man i 1 allergen [*Mangifera indica*]

MAGGKKIKIGINGFGRIGRLVARVALQRNDVELVAVNDPFITTDYMTYMFKYDTHVHGQWK
HHEVKIKDQKTLFDEKPVTVFGIRNPEEIPWAETGAEFVVESTGVFTDKEKAAHLKGG
AEKVVISAPSKDAPMFVGVNEKEYKPELVSNASCTTNCLAPLAKVINDRFGIVEGLM
TTVHSITATQKTVDGPSMKDWRGGRAASFNIIPSSTGAAKAVGKVLPSLNGKLTGMSFRV
PTVDVSVVDLTVRLEKEATYEEIKAAIKEESEGLKLGILGYTEEDVVSTDFVGDSSIF
DAKAGIALNKKFVKLVSWYDNEWGYSSRVIDLIVHMASTA

>ANZ22900.1 Allergen Amb a 12; enolase [*Ambrosia artemisiifolia*]

MATIKAVKARQIFDSRGNPTVEVDITLSDGTLARAAVPSGASTGIYEALERDGGSDYLG
KGVSKAVANVNTIIGPALVGKDPTDQTGIDNFMVQQLDGTQNEWGWCKQKLGANAILAVS
LAVCKAGASVLKTPLYKHIANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPIGA
SSFKEAMKMGVEVYHNLKSVIKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKAG
YTDKVVIGMDVAASEFYGEKDKTYDLNFKEENNDGKEKISGEQLKDLYKSFVSEYPIVSI

EDPFDQDDWEHYAKMTAECGEQVQIVGDDLLVTNPTRVKKKAIDEKTCNALLLKVNQIGSV
TESIEAVRMSKHAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIIEELGSEAVYAGANFRKPVEPY

>ANZ22901.1 Allergen Amb a 13; enolase [*Ambrosia artemisiifolia*]

MLFVDEIKVDITLSDGTLARAAVPSGASTGIYEALERDGGSDYLGKGVSKAVANVNTII
GPALVGKDPTDQTGIDNFMVQQLDGTQNEWGWCKQKLGANAILAVPLAVCKAGASVLKTP
LYKHIANLAGNKNL VLPVPAFNVINGGSHAGNKLAMQEFMILPIGASSFKEAMKMGVEVY
HNLKSVIKKKYQDATNVGDEGGFAPNIQENKEGLELLKTAIAKAGYTDKVVIGMDVAAS
EFYGEKDKTYDLNFKENNDGKEKISGEQLKDL YKSFVSEYPIVSIEDPFDQDDWEHYAK
MTAECGEQVQIVGDDLLVTNPTRVKKKAIDEKTCNALLLKVNQIGSVTESIEAVRMSKHAG
WGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQLLRIIEELGSEAVYA
GANFRKPVEPY

>XP_005598291.1 secretoglobin family 1D member [*Equus caballus*]

MRLFLPVLLVTLALCCETNAATCPAVATDIASFFLLPDSLFLKQLIKYQAPPEAKDATM
QVKQCINEISAGDRYIITETLGKIVLQCGA

>XP_003362701.1 mammaglobin-A [*Equus caballus*]

MKLVTVLMLVAFPLYCYAGSGCQLEEDVVEKTITAELESPAHEYVEAVQEFIPDEATEKAAI
QLKQCYLKQSNETLNDFRMTMMNSMYNSAYCALF

>APD76154.1 Allergen Jug r 5; pathogenesis related protein/PR 10/ Bet v 1-like protein [*Juglans regia*]

MGVFTYETESTSVIPARLFKAFVLDADNLIPKVVPPQAVKSSEIIEGNGGPGTIKKINFG
EGSQYKYVKHRTDAIDEANFTYAYSVIEGDALADKIEKISYETKIVASHEGGSILKSISH
YHSGKDHEIKEEDVKDGKEKASGLFKAVEGYLLAHPDAYN

>APR62629.1 Allergen Jug n 4; 11S globulin/legumin- like protein [*Juglans nigra*]

MAKPILLSISLCLVALVNGCLAQSGGRQPRFGECKLRLVALEPSNRIEAEAGVIESWD
PNNQQFQCAGVAVVRRTIEPNGLLLPQYSNAPQLLYIVKGRGITGVLPFGCPETFEESQQ
GQSRIRPSLRSASFQRDRHQKIRHFREGDVIAFPAGVAHWCYNDGDTPVVAVALMDTTNN
ANQLDQNPFRNFYLAGNPDEFPRPQQEQEYEQHRRQQHQQRHGEPGQQQRGSGNNVFSGF
DADFLADAFNVDTETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERE
RESESERRQSRGGRDDNGLEETICTRLRENIGDPSRADIYTEEAGRISTANSHTLPVL
RWLQLSAERGAALYSDALYVPHWNLNAHSVYALRGRAEVQVVDNFGQTVFDDELREGQLL
TIPQNFVAVVKRARNEGFEWVSFKTNENAMVSPLAGRRTSAIRALPEEVLANALQIPREDAR
RLKFNRRQESTLVRSRPSSSRSSRSERRAEV

>ARG42047.1 major urinary protein-like lipocalin 2 precursor [*Mesocricetus auratus*]

MKLLLLLLVLGLELTLVCVHAEKTSLTGKNFNPEKIVGKWHILLSADKREMIEEY GSM
RMFM EYIRLFKNSSLAVKFHTIANEECTELYLVCDKTEKGGVYDAKYDGYNRFTILD TDY
NDYIITHLRNIKNGETFQLMKLCGRKPKLSSNIKKKFGDLCQKHGIVKENIIDLTEADHC
LKTQVEIVA

>ARS33724.1 Sal k 6.01 allergen [*Salsola kali*]

MKTFNLPLLVALFYLFVSVARSQGPIDITKFGAKPNADATSALLAAWKEACAAAAPAKIV
VPAGEFLLNAVKLQGPCKAPLTIEIAGNFKAPADVAQMKGEDTWVKIENVQGLTITCLPT
GGTFDGGQAAWKQNKCAQSGMCNSLPYNFRFNTLTNAQISGIKSLNSKLYHMGVMGCKN
ITLTGLTIDAPKDSLNTDGMHIGRSNGVHATNSKIGTGDDCISMGDGAVDVHVEGITCGP
GHGISIGSMGKFANEAPNTGIFVKNCSFTD TDNGVRIKSWMNSFEASASDLHFEDITVTN
VLNPVIIDQEYCPYNHCKEKTSPKVKLSKISFKNVHGAAKSAEVVKLLCSSAVPCDGVEL
ADIDLTFPGGAAVSQCKNVKPIVTGKQNPVACGAPATPAAP

>B8AL97.1 Cupincin; 52 kDa globulin-like protein; *Oryza sativa* Indica Group

MAKKKTSSSMARSQLAALLISLCLSLASNAVGSRRGEREEEDERRRHGGEGGRPYHFG
EESFRHWTRTRHGRFSVLERFPDEQVVGAAVGGYRVAVLEAAPRAFLQPSHYDADEVFYV
KEGEGVIVLLREGRKESFCVREGDAMVIPAGAIVYSANTHSSKWFRVVMMLLNPVSTPGHF
EEYFPVGGDRPESFFSAFSDDLQA AFNTRREELEKVFERQREGGEITTAPEEQIRELSK
SCSRGGGGSGSEWEIKPSSLTGKSPYFSNNHGKLFELTGDECRHLKLDLQIGLANITR
GSMIAPNYNTRATKLA VVLQSGYFEMACPHVSGGSSERREREREHGFRRREEEQGEEEH
GERGEKARRYHKVRAQVREGSVVIPASHPATIVASEGESLAVVCFVGANHDEKVFLAG
RNSPLRQLDDPAKLVFGGSAAREADRVLAAQPEQILLRGP HGRGSVSDM

>BAG86826.1 unnamed protein product [Oryza sativa Japonica Group]
MKMKALLPVAAMLLLVSGQLAAPVTADGYVQGLAVFWGRHKEEGSLREACDTGRYNIIVVI
TFYNVFGYQRGRYGLDFSGHPVAAVGADIKHCQSKGVQVLLSIGGQGGGEYSLPSSQSASD
VADNLWNAYLGGRRAGVPRPFGDAVVDGIDFFIDQGGADHYEQLARQLHGRGVLLTATVR
CAYPDSRMEAAATGVFARIHVRIFGDDQCTMFPKDAWEKWAAA YPRCTVFLT VVASPEQ
DEGYMFQKDL YYGVQQFIDKEPNYGGIAIWDRYYDKKANYSGEG

>BAG88472.1 unnamed protein product [Oryza sativa Japonica Group]
MASSSFSFLLVAALLGLASWKAIASDPSPLQDFCVADLNSPVRVNGFVCKNPMNASADDF
FKAAMLDKPRDTNKNVGSNVTLVNVLQLPGLNTLGISIARLDFAPLGLNPPHHPHPRATEI
FTVLEGLTYVGVFVTSNPDNRLLSKVLNKGDVVFPPEGLIHFQFNPNPHPKPAVAIAALSSQ
NPGVITIANAVFGSNPPISDDILMKAFQVDKKIIDLQAQF

>BAG93480.1 unnamed protein product [Oryza sativa Japonica Group]
MPPDVEVIRHEHIDHPSSTRDRSVVVSSNSLNTVSAYTDMKNTSSLCLLLLVLCSLTC
NSGQAQVLFQGFNWESWKQGGWYNMLKGQVDDIAKAGVTHVWLPPPSHSVAPQGYMPGR
LYDL DASKYGTAAELKSLIAAFHGKGVQCVADV VINHRCAEKKDARGVYCVFEGGTPDDR
LDWGP GMICSDDTQYSDGTGHRDTGEGFGAAPDIDLNPRVQRELTDWLNWLKSDVGFDDG
WRLDFAKGYSTDI AKMYVESCKPGFVVAEIWNSLSYNGDGKPAANQDQGRQELVNWVNAV
GGPAMTFDFTTKGLLQAGVQGELWRLRDGNGKAAGMIGWLPEKAVTFVDNHDTGSTQKLW
PFPSDKVMQGYAYILTHPGVPCIFYDHMFDWNLKQEITALAAIRERNGINAGSKLRIVVA
DADAYVAVVDEKVMVKIGTRYDVGNVPSDFHQT VH GKDY SVWEKGLRVPAGRHL

>BAG95020.1 unnamed protein product [Oryza sativa Japonica Group]
MEQYEKVEKIGEGTYGVVYK GKHRHTNETIALKKIRLEQEDEGVPSTAI REISLLKEMQH
RNIVRLQDVVHKEKCIYLVFEYLDL DLK KHM DSSPDKNHRIVKSFLYQILRGIA YCHSH
RVLHRDLKPNLLIDRRTNSLKLADFG LARAFGIPVRTFTHEVVTLWYRAPEILLGARHY
STPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFSIMGTPNEETWPGVASLPDYISTF
PKWPSVDLATV VPTLDSSGLDLLSKMLRLDPSKRINARA ALEHEYFKDLEVA

>BAH01262.1 unnamed protein product [Oryza sativa Japonica Group]
MKIIFFFALLAIAACSASAQFDAVTQVYRQYQLPHLMLQQQMLSPCGEFVRQQCSTVAT
PFFQSPVFQLRNCQVMQQQCCQQLRMIAQQSHCQAISVQAIVQQRLRLQQFASVYFDQSQ
AQAQAMLALNMPSICGIYPSYNTAPCSIPTVGGIYW

>BAV90601.1 enamine/imine deaminase [Dermatophagoides farinae]
MSPKRIISTPLAPQPIGPYSQAVQVGNTVYLSGQIGMNVRTNEMVTGPIRDEAQQAFNTM
KAVVEASGAKMSDVVKVNIFIRNFNDFPAINVDMKEFFQSPFPARSTVGVAELPKNARVE
IESIVVIE

>BAW03242.1 Allergen Lip b 1; unknown [Liposcelis bostrychophila]
MAAIKFILIAFLAFSVSQTTEANVVAQPKAFDIIAIVKQVIDIVRIVVKA VNDAVPDIDK
ILQQLVALLPSDVAATVTTVLDAIKQAITDENARIDHIIQVLEKAMDDL LAIDPCYQPQA
DAIKAVLDKALSGIDGVLHGSIDAHKADIDNVIAGFSQDLEDLRNLYDTQLPAAVVCLTP
GNAESCGLDGVKETVVNGVVSLAANFVLHLTAASDVLKVVVPEVINGSTPIVNDGLAAA
GPLIDNVCTCVAAM

>BAW03243.1 Allergen Lip b 1; unknown [Liposcelis bostrychophila]
MAAFKFILLAFSVSQTTEANVVAQPRAFDIIIVKVIQIVEIVVEAVNGAVEPIDK
ILQELIALLPADVAKTVTAVVDALRQAIADENVRIDHIIEVLNKALDDL LAIDPCYQPQA
DAIKAVLDTALSGIDKVLHGSIDAHKADIDNVIAGFSQDLEDLRNLYDTQLPAAVVCLTP
GNADSTCLDGVKETVVNGVVSLAANFVLHLTAASDVLKVVVPEVIDGATPVVNDGLAAA
GPLIDNVCACVQGM

>BAX34757.1 group II allergen [Dermatophagoides farinae]
MIKFLCIFALTFAVASAGKMKFVDCGHKEVISLDVSGCEGDYCVLHKGKTIDLDMKCKSN
QDSEHLKLIISADVNGIEIEVPGFDQDGCHYVQCPIHKGQDYDIKYSYNVPAVLPNIKGT
LTAKVIGDNGLVGCLKLNGEIA D

>C0HJX6.1 Profilin; Pla 1 2 [Plantago lanceolata]
AILGQDGSVWAQGLHLGGAKYVIAGEPGAVIRLGDYLLDQGL

>C0HKB1.1 Polygalacturonase; Cup s 2 [Cupressus sempervirens]
DVAIVFNVEHTLSAVFLVPANKKVDGIIAAYPDPVKIWMHFARTVCNDKGRPTAIKIDFS

KSELTLMNSPEFHLVFGECDGVKIQGIKIKRFEIEKDLTCGPGHGMSIGSLGKGNRSRSEV
SFVHLDGAKFIDTQNGLRSAVKIEDVTFKNANGYYTNPLNPPCK

>C0HKC0.1 Pommaclein; Pun g 1 [*Punica granatum*]

GSSFCDSKCAVRCSKAGVQD

>CAA58223.1 mucofirase 3 [*Protobothrops mucrosquamatus*]

MVLIRVLANLLILQLSYAQKSSSELVIGGDECNINEHPFLVLVYYDDYQCGGTLLNEEWVL
TAAHCNGKDMEIYLVHSHKVPNKDVQRRVPKEKFFCDSSKTYTKWVKDIMLIRLDRPVR
KSAHIAPLSLSPSSPPSVGSVCRVMGWGTITSPQETYPDVPHCANINLLDYEVCRAAAYAGL
PATSRITLCAGILEGGKSDSCVGDSSGPLICNGQFQGIWSWGGDPCAQPREPGVYTNVFDHL
DWIKGIIAGNTDVTCP

>CEE03318.1 Allergenic protein Tha p 2, partial [*Thaumatococcus danianus*]

VPQLSEKAEKAVDLTYQEKNNLFELGSVVGDIISKNGCHVSFGCHKGYCWAGCGNPTNPW
SWGGENWCYTTKTYSSQSYVQCTQDSECDGCWKCGGPCSA

>XP_008286259.1 parvalbumin beta; partial 32 aa sequence [*Stegastes partitus*]

KAFAIIDQDKSGFIEDELKFLQNFSAAGARA

>L7UZ85.1 Alpha-actinin; F-actin cross-linking protein; Der f 24 [*Dermatophagoides farinae*]

MTQDGYMQEEEEWEREGLLDPAWEKQQRKTFTAWCNSHLRKAQTQIDNIEEDFRNGLKL
MLLEVISGETLGKPDGRGKMRFKIANVKNALDFIESKGVKLVSIGAEEIVDGNKMTLG
LIWTIILRFAIQDISVEEMTAKEGLLLWCQRKTAPYKNVNVQNFHLSWKDGLAFCALIHR
HRPDLIDYGKLRKDNPMDFNLAFDVAEKHLNIPRMLDAEDVVYTAKPDERAIMTYVSWY
YHAFHGAQQAETAANRICKVLKVNQDNERLMEEYERLASDLEWIRRTTPWLENRTTDNT
LPGTQKKEEFRSYRRQHKPPRVEQKANLETNFNTLQTKLRLSKRPAYMPSEGKMSVSDIT
GAWKGLSAEKGFEEWLLSEMMRLERLDHLAQKFKHKADIHEEWTOGKEEMLVSHDFRQC
KLNEIKALKKKHEAFESDLAAHQDRVEQIAAIAQELNALGYHDIASINARCQRICDQWDR
LGTLTTRRRQALDEAEQILEKVDLFHLEFAKRAAPFNNWLDRETREDLVDMFIVHSIEEIQ
QLIDAHESFKNTLGEADKEYKTIVGLAQEVQPMATQYQIPGLENPYTTLTPEVITTKWR
DVKQLVPQRDHTLQTELIRQQCNENLRRQFAEKANVVGWPWIERQMDAVTAIGMGMQGTLE
DQLQRLHEYDQAVVQYRPHVDDLEKIHQEVQEAMIFENRYTQYTMETLRVGWEQLLTSIH
RNINEVENQILTRDSKGITQEQLNEFRTSFNHFDDKRTGRLAPEEFKSCLVSLGYNIRND
DRPEFRRLAIVDPNKTGYVHFDAFLDFMTREYTDTDTAEQMIDSFRLAGDKPYITADE
LRRELPPDQAEYCIRRMTPYNGQCAVPGALDYRSFSTALYGESDL

>NP_001003242.2 epididymal secretory protein E1 precursor [*Canis lupus familiaris*]

MRLLVAAFLLLALGASALAEVHFVKDCGSAVGVKELNVNCPAQPCCKLHKGQSYSVNVT
FTSNIPSQSSKAVVHGIVLGVAVPFPIPEADGCKSGINCPIQKDKTYSYLNKLPVKNEYF
SIKLVVQWMLLGDNNQHLFCWEIPVQIEG

>NP_001005208.1 serum albumin precursor [*Sus scrofa*]

MKWVTFISLLFLFSSAYSARGVFRRTDYKSEIAHRFKDLGEQYFKGLVLIASFQHLQQCPY
EEHVKLVREVTEFAKTCVADESAENCDKSIHTLFGDKLCAIPSLREHYGDLADCCEKEEP
ERNECFLQHKNDNPDIKPKDPVALCADFQEDQKFWGKYLVEIARRHPYFYAPELLYY
AIIYKDVFSECCQAADKAACLLPKIEHLREKVLTSAAKQRLKCSIQKFGERAFKAWSLA
RLSQRFPKADFTEISKIVTDLAKVHKECCHGDLLECADDRADLAKYICENQDTISTKLKE
CCDKPLLEKSHCIAEAKRDELPAIDLNPLEHDFVEDKEVCKNYKEAKHVFLGTFLYEYSRR
HPDYSVSLLLRIAKIYEATLEDCCAKEDPPACYATVFDKQPLVDEPKNLIKQNCSELF
LGEYGFQNALIVRYTKKVPQVSTPTLVEVARKLGLVGSRCCKRPEEERLSAEDYLSLVL
NRLCVLHEKTPVSEKVTCCCTESLVNRRPCFSALTPDETYKPKFVEGTFTFHADLCTLP
EDEKQIKKQATALVELLKHKPHATEEQLRTVLGNFAAFVQKCCAAPDHEACFAVEGPKFVI
EIRGILA

>NP_001036878.1 27 kDa glycoprotein precursor [*Bombyx mori*]

MMWKTVLITIFAAGVLADDFSQITAVVTSQCTKNAEDKVPEVEAALRTFGNCLKGLVDL
NVLKTEIEEAKPNGALDEVFKKYCDKSAQLKGCISSVLQGVPCVGNAYANHINDAQNST
NQLIDFVCYKDGDRIALFIAEGGPECFQKQKTNLKTCLNKLQSFPTVESANNLSLVEKC
AKVDEMTSCIVKSLEECSTPTPANMAESLIKFMRKDSPCHTALPKTD

>NP_001037083.1 thiol peroxidase [*Bombyx mori*]

MPLQMTKPAPQFKATAVVNGEFKDISLSDYKGYVVLFFYPLDFTFVCPTEIIAFSEKAD

EFRKIGCEVLGASTDSHFTHLAWINTPRKQGGGLGPMNIPLISDKSHRISRDYGVLDEETG
IPFRGLFIIDDKQNLQRQITINDLPVGRSVEETLRLVQAFQFTDKHGEVCPANWRPGAKTI
KPDTKAAQEYFGDAN

>NP_001316123.1 non-specific lipid-transfer protein precursor [Solanum lycopersicum]
MKAIAILVLVLA VFQLAMVARGAITCGQVDANLAPCVPFLTQGGEPGAACCSGVRTLNG
NTQSSDDRRTACNCVKAAANRYPNLKDDAAQSLPSKCGISLTVPIISRTVNCDTIS

>P13080.1 Probable maltase [Aedes aegypti]
MKIFVPLLSFLLAGLTTGLDWWEHGNFYQVYPRSFKDSGDGIGDLDGVTEKLYLKDIG
MDGVWLSPIFSSPMADFGYDISNFREIQTEYGDLD AFQRLSDKCKQLGLHLILDFVPNHT
SDQHEYFKKSVQKDETYKDFYVWHPGVHGPNNTKVPPSNWISVFRGSSWEWNEERQEFYL
HQFLKEQPDLNRYRNP AVVEEMKNVLR YWLD RGVSGFRIDAVPYLFESDIIDGRYRNEPES
RTTDDPENPAYLVHTQTMDQPETYDMIYQWRAVLDEYSKTDNRTRIMMTEGYTSLPKIIE
FFGNATANGAQIPNF EVISNVKKNSTGADFATYVKRWLDAK PANRRSNWVLGNHDNNRL
GSRLGENKIDL YNIALQTL PDIAVTYYGEEIGMLDQWIPWNETVDPAACRSDEASYSAYS
RDPARTPMQWDSGKNAGFSKAAKTWLPVADNYKTLNVKIQDRARKSHLKIFKLT KYRKR
QILTEGDIDIKVSGENLLVYKRKVDKVG YVVVALNFGTEPV ALGLSSLFDRADQRMQVVV
SSNRVSTPDNVWVDVDNYVLIGESGIVLQYLWGKNPIVS

>P29022.1 Endochitinase A; Seed chitinase A [Zea mays]
MANAPRILALGLLALLCAAAGPAAAQNCGCQPNFCCSKFGYCGTTDAYCGDGCQSGPCRS
GGGGGGGGGGGGGGGGGGANVANVVTDAFFNGIKNQAGSGCEGKNFYTRSAFLSAVNAYPG
FAHGGTEVEGKREIAAFFAHVTHETGHFCYISEINKSNA YCDASNRQWPCAAGQKYYGRG
PLQISWNYNYGPAGRDIGFNGLADPNRVAQDA VIAFKTALWFWMNNVHGVMPQGFATIR
AINGALECNGNNAQMNARVGYKQYQCQLRVDPGPNLIC

>Q75GX9.1 63 kDa globulin-like protein; Ory s GLP63 [Oryza sativa Japonica Group]
MATRARATILLLLAAVLF AAAAAASGEDRRRETSLRRCLQRCEQDRPPYERARCVQECKD
QQQQQQERRREHGGHDDRRDRDRRGEGSSEEEDEGRERGSRRRPYVFGRRSFRQVVRSD
QGSVRLPPFHQASSLLRGIKNYRVA VLEANPRSFVMPHTHTDAHCICYVAQEGEVVAIIE
NGEKWSYAIRQGDVFVAPAGTINYLAN TDGRRKLI VTKILHTISVPGQIQFFFAPGGRNP
ESFLSSFSKGVQRAAFKISEEKLEKLLGKQDKGVIRASEEQVRELRRHASEGGHGHHPW
LPPFGESSRGPFNILEQRPRFANRHGRL YEADARSFHDLAEHDIRVAVVNITAGSMNAPF
YNTRSVKVAYVLDGEGEAEIVCPHL SRGGRGGESEERRRER GKGKWREEEEEEEEEQQKGQ
EEEEEEQVGGQYETIRARLSRGTVFV VPSGHPVV TSSRDSTLQIVCFDVHANNNERMYL
AGMNSVLKKLDPQAKELAFAASAREVDELLNAQQESAFLAGPEKSGRRGEESEDED RRRR
RSHRGRGDEAVETLLRMAAAAV

>Q7X7E6.1 17kDa alpha-amylase/trypsin inhibitor 1; Allergen=Ory s 17kD [Oryza sativa Japonica Group]
MASASDKLVLSAIVLAVLAAVVAASGYGDVGEYCRVGKAVSRNPVPSCRNYIARWCAA
GGRMDSRKQPPREFLEPCCRELA AVPMQCRC DALSVLVRGVVTEEGDRVSGMISQHAAPG
CDAATIAGMASALTDYGR CNLQHTAGSFACLMFGGGMD

>Q7X8H9.1 17kDa alpha-amylase/trypsin inhibitor 2; Ory s 17kD [Oryza sativa Japonica Group]
MALASDKFVLSAIVLAVLTVAAAAAGYGGYGDVGEYCRVGKAVSRNPVPSCRNYIARWCA
VAGGRLDSGKQPPRQLLEPCCRELA AVPMQCRC DALSVLVRGVVTEEGDRVAGMISQHAA
PGCDAATIAGMASALTDYGR CNLQHTGFFGCPMFGGGMD

>Q852L2.2 Cupincin; 52 kDa globulin-like protein; Ory s NRA [Oryza sativa Japonica Group]
MAKKKTSSSMARSQLAALLISL CFLSLASNAV GWSRRGEREEEDERRRHGGEGGRPYHLG
EESFRHWTRTRHGRFSVLERFPDEQVVGAAVGGYRVA VLEAAPRAFLQPSHYDADEVFYV
KEGEGVIVLLREGRRSFCVREGDAMVIPAGAI VYSANTHSSKWFRVVM LLNPVSTPGHF
EEYFPVGGDRPESFFSAFSDDLVQA AFNTRREELEKVFERQREGGEITTAPEEQIRELSK
SCSRGGGGSGSEWEIKPSSLTGKSPYFSNNHGKLFELTGDECRHLK KLDLQIGLANITR
GSMIAPNYNTRATKLA VVLQSGYFEMACPHVSGGGSSERREREREHGRREEEQGEEEH
GERGEKARRYHKVRAQVREESVIVIPASHPATIVASEGESLAVVCFFVGANHDEKVFLAG
RNSPLRQLDDPAKLVFGGSAAREADRVLAAQPEQILLRGP HGRGSVSDM

>Q9DG84.1 Snake venom serine protease serpentokallikrein-2 [Protobothrops mucrosquamatus]
MVLIRVLANLLILQLSYAQKSSSELVIGGDECNINEHPFLVLVYYDDYQCGGTLIN EEWVL
TAAHCNGENMEIYLG MHSK KVPNKDRRRRVPKEKFFCDSSKNYTKW NKDIMLIRLNRPVR

KSAHIAPLSLPSSPPSVGSVCRIMGWGTISPTKVTLPDVPRCANINLLDYEVCRAVYPEL
PATSRITLCAILEGGKSDSCGGDSGGPLICNGQFQGIWSWGGDPCAQPHEPGLYTNVFDHL
DWIKGIIAGNTDVTCP

>Q9YGJ8.2 Venom plasminogen activator Haly-PA [*Gloydus brevicaudus*]

MALIRVLANLLILQLSYAQKSSSELVGGDECNINEHRSLVVLFNSSGLICSGTLINQEWV
LTAHCDSKNFQMLFGVHKKILNEDEQTRDPKEKFICPNKKKDDEKDKDIMLIRLDSPV
SNSEHIAPLSLPSSSPTVDSVCRIMGWGTIKPADETYPDVPHCANINILDHTVCRAAYPV
LLAGSSTLCAGTQQGGKDTCVGDSGGPLICNGQIQGIWSWAHPCGQGSKPGVYTKVFDH
LDWIKSIIAGNTAVTCP

>SHD75397.1 RNA dependent RNA polymerase [*Sarcoptes scabiei*]

MSARSAKFMYSRGNAGASGDLSVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSESVEVMNKKRDSSELAKLKLLLEDVHLESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDKEKQKQFAEVFELLAQLETANKEKLTAMKTVEKLEYTV
HELNKIEEINRTVIELTSQKTRLSQENTELIKEVHEHKMQLDNANHLKQQLAQQLEDTK
HRLEEEERKRASLENHAHTLEVELESKLVQLDEESEARLELERQLTKANGDAASWKSKEYE
AELQAHAVEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
THAQQLEKRV AQLEKLNLDLKNKLEEV TMLMEQAQKEARAKAAELQKLQHEYEKLRDQRD
ALARENKKLTDDLAECKVFRHHDHRSTNRRSKSNDWRTREKSYLLPTKKRKPYPANKRR
LRINDLPSWLKYDTITRNVWHRKRKSKHLENNIKSRNSLICDLKLKLNKPRSHDRRNI
KLKSLNWNCHWMLPIKPIIYRKQSKNKPYKLSFKHTMMRRQSNHCTGSSIGSHPKTMP
SVTSRAGRAKNRFGTSESCQTTSR TIAGSCRKSTYHHQCSCFSKQIGIGIRCSTKRLRSP
QRTQNFTSTETYHAQIYQGLISGGTGTISENGDRKEIFGARSSYPTCPYRRGRSQCFGWR
TCHCTGEQNSCDRSGRGTKTRDRGKNAKRSSTQGIVGAKRGGPQTNPIASRNQRQNERK
GQSLTTNARTGGNEPTKSDSCSTLPTIGSCRSSGSSIKSIVHPCQTPF

>XP_015646887.1 PREDICTED: casein kinase II subunit alpha [*Oryza sativa Japonica Group*]

MSKARVYTDVNVLRPKEYWDYEALTVQWGEQDDYEVVRKVGRGKYSEVFEGINVNNNEKC
IILKLPVKKKIKREIKILQNL CGGNIVKLLDIVRDQHSKTPSLIFEYVNNTDFKVLVY
PTLTDYDIRYYIYELLKALDYCHSQGIMHRDVKPHNVMIDHELRLRLIDWGLAEFYHPG
KEYNVRVASRYFKGPELLVDLQDYDYSLDMWSLGC MFAGMIFRKEPFFYGHNDHDQLVKI
AKVLGTDLSNLYNKYRIELDPQLEALVGRHSRKPWSKFINADNQHLVSPEAIDFLDKLL
RYDHQDRLTAREAMAHPYFLQVRAAENS RPRAQ

>AHA56102.1 Amb a 11 cysteine protease [*Ambrosia artemisiifolia*]

MEINKLVCFSFSLVLILGLVESFHYHERELESEEGFMGMYDRWREQHNIEMRSPERFNVF
KYNVRRIHESNKMDKPYKLVNEFADMTNLEFVNTYANSKISHFQALRGSAPGSIDTDPN
KDFIYANVTKIPDKVDWREKNAVTDVKGQGGCGSCWAFAAVVALEGINAIRTGKLVKFSE
QQLVDCDMTNAGCDGGLMEPAFTYVIKHGGIAPEASYPYVGKRETCDAKIKDVLKIDGR
QNVPLDDEALRKAVAHQP VATGIQLSGHGLQFYSEG VYTGD CGTEPNHGVGIVGYGENE
KGIKFWTVKNSWGPTWGEKGYIHLQRGARKEGLCGVAMHSSFPIMNDPNPPKDDPNPKD
DPDAPKDPKFKTTQRLQGIRTKLLEL

>5X7Y_A Lipocalin, putative Can f 6, Chain A [*Canis lupus familiaris*]

GSHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVKDIEVLSNSSLIFT
MHTKVNGKCTKISLICNKTEKDGEYDVVHDGYNLFRIIETAYEDYIIFHLNNVNQE QEFQ
LMELYGRKPDVSPKVKEK FVRYCQGM EIPKENILDLTQVDRCLQARQSEAAQVSSAE

>COMPARE008 Putative Ara h 15.0101 [*Arachis hypogaea*]

MSDQTRTG YGGGGSY GSSYGGGGTYGSSYGT SYDPSTNQPIGAGHHHHHHGAGGKHPAGS
DRLDYAKGVIADKARDVKDRAKDYAGAGRAQEGTPGY

>AAV83993.1 Arginine kinase Putative Pen c 2 [*Penaeus chinensis*]

MADAAVIEKLEAGFKKLEAATDCKSLLKKYLTKAVFDQLKDKKTS LGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVTSFVNVDPEGKYV
ISTRVRCGRSMEGYFPNCLTEDQYKEMESKVSSTLSSLEGELKGTYYPLTGMGKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPSGRGIYHNDNKTFVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANRDKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKR RMGLTEFQAVKEMQDGILELIKMEKEM

>COMPARE001 Bla g 9.0101 arginine kinase [*Blattella germanica*]

VDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPTFGSTLLDVIQSGLENH
DSGVGIYAPDAEAYTVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYII
STRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLELKGQFYPLTGMTKEVQQKL
IDDFLFLKEGDRFLQHANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDLGQ
VYRRLVTA VNDIEKRVPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKKKLEEVA
GKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKIESSL

>ABV55108.1 Catalase 2 [Musa acuminata AAA Group]

MDPYKFRPSSSFDNTNFTTTNAGAPVWNDDQALTVGSRGPILLEDYHLVEKIAHFARERIP
ERVVHARGASAKGFFECTHDVTHLTCADFLRAPGVQTPILRFSTVIHERGSPETIRDPR
GFAVKFYTREGNWDLLGNNFPVFFIRDGIKFPDVIHAFKPNPKSHVQEYWRVDFFLSHHP
ESLHTFFFLFDDVGVPSDYRHMEGFGVNTYTFVSKEGKVNYVKFHWKPTCGVKCLLEDEA
IVVGGKNHSHATQDLYDSIAAGNYPEWKLQVQVMDPDTEVDYDFDPLDDTKTWPEDLLPL
QPVGRLVLNRNIDNFFSENEQLAFGPGLVVPGIYYSDDKMLQCRVFA YGDTQRYRLGPNY
LTLPVNAPKCAHHNNHYDGLMNMVHRDEEVDYFSPSRHASLRHAERFPIPNRVVTGKREKN
VIPKQNDFKQPGERYRSWAPDRQERFVRRWAEQLAHPKVS YELRSIWISFLSKCDTSLGQ
KVANRLNMRANI

>ACV85695.1 Allergen Car i 1; endo-polygalacturonase [Carica papaya]

MAVLYYDNYNRTHLLLSFSILFFSFSRLVNSGFHGERRRERVHG YHYDELNNFSEDQE
GGLTLLSGAGYDPEAHPFLSSINGDRDEEFTEAEPSVLSFKGIEDLRS AKPRSVIFNVD
DFGAEGDGIHDDTQQVFEEAWEKACSYKGPALFLVPERRTYLIGPIRFLGPCKSNLVIQV
QISGTILASDNRSYRKDPRHWIVIDSVDNLLVEGGGTIHGNGQIWWRN SCKAPCKEAPT
VTFYKCKNLMVRNVKVQDAQQMVSFEKCEVTASDLT VTAPEKSPNTDGIHVTNTQNIL
ITNTFIGGDDCISIESGSHNVQIEELTCGPGHGINVDSLGDNNSKAFVSFVTVNGAKLSG
TTNGVRIKTYQGGSGSASNIKFQNVDMENVKNPIIIDQNYCDQKKPCKKQKSAVQVKDV
LYQNIQGNASDVAIDFDCSENYPCLGVKLQNVRLQRADR VDEEAKAICNHVELTETGVV
FPRCPDYHLKHDEL

>AHY24648.2 Putative Can f 4 variant allergen precursor, partial [Canis familiaris]

MKILLLCLALVLASDAQPLPNVLTQVSGPWKTL YVSSNNLDKIGENGPFRIYLRGINVD
IPRLKMLFNFYVKVDGECVENS VGASIGRDNLKGEYNGGNYFRIIDMTPNALIGYDVNV
DSKGGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENI IYLGDTDNCNPHE

>COMPARE013 Der f 31 cofilin [Dermatophagoides farinae]

MASGVIVATEAKTLYEEVKKDKKYRYIIYHIKDERVIEVETT GPRDATYSDFVARLQDYK
NECRYCVFDFPANIPVEGGGEKSNMSVDRLV LMTWCPESAKIKQKMLYSSSYDALKKALV
GVYRYVQACDYEEASEEAI AEA FRKGG

>AIV43661.1 Allergen Koc s 2; profilin [Bassia scoparia]

MSWQTYVDDHLMCDIEGTTNHLTGAAILGVDG SVWAQSANFPQFKPDEIAAIVKEFDEPG
TLAPTGLHLGGTKYMVIQGEAGQVIRGKKGPGGICV KKTGQALIFGIYDEPVTPGQC NMI
VERLGDYLVEQGM

>AIV43662.1 Aca f 2 profilin, partial [Vachellia farnesiana]

MCWQTYVDDHLMCEIEGTTNHLSGAAILGVDG SVWAQSASFPQFKPDEIAA VVKDFDGP
TLAPTGLHLGGTKYMVIQGEPRFIRGKKGPGGICV KKTGQALVFGIYDEPVTPGQC NMI
VERLGDYLVEQGM

>COMPARE009 Putative Der p 23 [Dermatophagoides pteronyssinus]

MKFNIII VFISLAILVHSSYAANDNDDDP TTTVHPTTTEQPDDKFECPSRFGYFADPKDP
HKRYICSNWEAVHKDCPGNTRWNEDEETCT

>ANW82807.1 Venom allergen antigen 5, partial Putative Poly p 5 [Polybia paulista]

NKYCNKCSKVAHTVCQYGESTKPSSKCNKVSIT SVGVTEEEKKLIVDEHNRFRQKVAQG
LETRGNPGPQPAASDMNVLVWNEDELAYIAQVWASQCQFFVHDKCRNTAQYQVGNIA YSA
STAAYPGIVSLIVLWENEVKDFNYSQGITKENFSKVGHYTQV VWAKTKEVGC SIKYIEK
GMKSHYLCVNYGPAGNYMGQPIYTKK

>AAP35068.1 Putative Der f 5 [Dermatophagoides farinae]

MKFIIAIAVCTLA VVCVSGEPKKHDYQNEFDLLMQRIHDQMRKGEEALLHLHQINTFEE
NPTKEMKEQILASEMDTIALIDGVRGVLNRLMKRTDL DIFERYNVEIALKSNEILERDL
KKEEQRVKKIEV

>AAX34057.1 Putative Tyr p 5 [Tyrophagus putrescentiae]
MKFAILALAF LGAVMAQGGPKVPAK GDFRNEFDHLLVSTLMEGMYKGEQHLLRLSEEIAH
LESTKTKVEQDRIVREIEVTVAFIEGGV RVVEQELKRTDLNILERFNFEVQALS KLLVK
DLKEAEVKVKAVKTR

>AAX34059.1 Putative Tyr p 21 [Tyrophagus putrescentiae]
MKFVIALAALLAVACA APTPKPARPTPAK GDFRNEFDHLIVAAA VQRFHDLEEFLLKLSE
QVADLEKTKNREEKAKILREITIADGLV VGGRTYFEKELKRTDLDLVEKFNFEAVLATIG
ILDRDLKALATRVNAIKV

>AAV39514.1 0.19 family dimeric alpha-amylase inhibitor [Triticum aestivum]
SGPWMCYPGQAFQVPALPACRPLLRLQCNGSQVPEAVLRDCCQQLAHISEWCRCGALYSM
LDSMYKEHGAQEQAGTGAFPCRREVVKLTAASITAVCRLPIVVDASGDGAYVCKDVAA
YPDA

>Q4W1F6 Allergen Zea m 25; thioredoxin [Zea mays]
MASEQGVVIACHSKAEFDAHMTKAQEAGKLVVIDFTAAWCGPCRAIAPLFVEHAKKFTQV
VFLKVDVDEVKEVTAA YEVEAMPTFHVFNKNGKTVATIVGAKKDELLALIEKHAAPAPASA
SA

>Q4W1F8 Expansin EXPB11 protein [Triticum aestivum]
MASSIAVAAALILCILVAHAHGCYAKHHAAPSATNSSWLD AKATWYGPPHGAGPDDNGG
ACGFKNVNLPPFSSMTSCGNQPLFKDGGKGCSCYQIRCLKSDHPACSGVPKTVIITDMNY
YPVSRYPHFDLSGTAFGAMAKDGRNDEL RHAGMINMQFKRVPCQYPGLTVTFHVEEGSNPF
YMAILVEYENG DGDVNQLDIMESRPNGGKMAPTGWVPMKESWGSWRMDAHHPMKAPFS
LRITNESGKTLVAEQVIPIDWKPNKTYSSLVQFH

>Q4W1G2 Chromatin associated protein [Triticum aestivum]
ANGDTAFKASGKNKTATGGVAKPKRPTPFFAFLAEFRPQYMEKHPEAKGVAAVTKAAGE
KWRSMSDEEKAKYGGKKADAPASKAVNKKESTSSKAKTGS DVEDDGEEDDEE

>ARQ16437.1 Allergen Art an 7; galactose oxidase [Artemisia annua]
MASSIKTVILFLLPLLLAYS VLAAPDITDGGDKPGPEIDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDAN
NQPDCYAHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPKGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYS YEIVPPQMEFKPKRFDL PFM
QQTTEPPLGPRPVENNL YPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLP GGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELTPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTEL RVEKFSP
PYLDPALETERTQIDPANTDAVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVQNGVITAVAPPSGQIAPPGYYIMFVSHLGIPGAGI WVHID

>ARQ16438.1 Galactose oxidase [Artemisia argyi]
MASSIKTVILFLLPLLLAYS VLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNPDAN
NQPDCYVHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYS YEIVPPQMEFKPRRFDL PFM
QQTTEPPLGPRPVENNL YPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLP GGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTEL RVEKFSP
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGI WVHID

>ARQ16439.1 Galactose oxidase [Artemisia capillaris]
MASSIKTAILFLLPLLLAYS VLAAPDITDGGDKPGPLIDDGGGDKPVPGNNDGASDYAKP
AIEPEFMGEWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDAN
NQPDCYAHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSAVVLGGRDSYS YEIVPPQMEFKPKRFDLPFL
QQTTEPPLGPRPVENNL YPFQFLPDGNIFLFANNRAITFEPATGKTVKEFPVLP GGSR
NYPPSGSAALFPLKLTADNAPVVPEIVICGGNQPNAYELVDARHVTEKKFLPALQDCNRI

QPMAADAAWIPEQNMPSPRTMGDLLHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFSP
PYLDPALEPERTLIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITGVENGVITAVAPPSGEIAPPGYYIMFVSHLGIPGAGIWWHID

>ARQ16440.1 Galactose oxidase [*Artemisia gmelinii*]

MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPEIDDGGGDKPVPGNNDGASDYAKP
AIEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGPSGYKLPEGTPCPINPDAN
NQPCYAHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPKGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELTPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFSP
PYLDPALETERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAVAPPSGQIAPPGYYIMFVSHLGIPGAGIWWHID

>ARQ16441.1 Galactose oxidase [*Artemisia lavandulifolia*]

MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNNPDAN
NQPCYVHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFSP
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYILFVSHLGIPGAGIWWHID

>ARQ16442.1 Galactose oxidase [*Artemisia sieversiana*]

MASSIKTVILFLLPLLLAYSILAAPDITDAGDKPGPQVDDGGGDKPVPGNNDGASDYAK
PAIESEFMGQWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDA
NNQPDCYVHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIPN
DDPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPF
MQQTTEPPLGPRPVENNLYPFLFLLPDGNIFLANNRAITFEPATGKTVKEFPVLPGGS
RNYPPSGSAALFPLKLTADNAPVPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNR
IKPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEPNLTPVLYT
PYKPMGQRFKELRPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS
PPYLDPALELERSQIDPANTDVVLKYGKPFKITAGLMEKQPLVLGEVKVTLLYPPFTTHG
FSQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGIWWHID

>ARQ16443.1 Galactose oxidase [*Artemisia vulgaris*]

MASSIKTVVLFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNNPDAN
NQPCYVHGIA YDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFSP
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFLSHLGIPGAGIWWHID

>ATI08931.1 Der f 36 [*Dermatophagoides farinae*]

MKFYNILTVATIVILVAFFDNVHADSQAQEQRQLHHVDIDPSGTKFLNNNCRLNCNIHG
QIYGHNINEGRTCMIGQTNVVCQNGECVGHNRQHVGHIDIELISASLYEKANAYATVCIM
NNSLPISLPIQDRRNCISCSTHVKENTNYPVWNEVCVSSNYLFFVSDSRVTTEVWDHHS
NNNVFLGGVTLTIDQLVNHGDNHRQINLAMAGGHNPGQLSTRITWTQRT

>ATI08932.1 Der p 36 [*Dermatophagoides pteronyssinus*]

MKFYNVLTITIGVILLSVFDNVQADTVAQEQCRQLHHVDVDPSGTQFLNNNCLLDCNIHG
KIYSHNMNEGRTCMVGRNTYVCRNGQCVCVGNQHVGHVDIELISASLYEKANAYASVCIKN
NSMPISLPIQDRRDCITCSTQVRSNTNNPIWNEVCTGSGNYLLVSDSRVAIEVWNHLGTS
NNIFLGGVSLTIDQLVNHGDNHRAINLAMAGNKPGQLTTRITWTQRN

>AUH28179.1 Pollen allergen, Putative Que m 1 [*Quercus mongolica*]

MGVVAYESEDASVIPPARLFKAFVLDSNDLIPKVVPQALKSTEIIEGNGGPGTIKKITFG
EGSHLKHAHRIDVIDPENFTFSFSVIEGDALFDKLENVSTETKIVASPDGGSIVKSTCK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDGY

>AUW37958.1 Per a 5.0101 glutathione S transferase class delta [*Periplaneta americana*]

MTIDFYYPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNQPHTIPTLNDN
GFCLWESRAILSYLADQYKDDSLYPKDAKKRALVDQRLYFDIRTLYHRFGEYYYPIYFA
KQAADPEKMKLEEAFFLNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK

>BBD75204.1 Apolipoprotein Putative Der f 14 [*Dermatophagoides farinae*]

MRLFALLFTACLLGLGQAQHCTVACPNSIPQLINPKAQSTYVYTLDAKTVLTTPRDSQKVT
IKADA EVAIVSACEAVLRLQNV AIDGVPNGAELASELASKSFAFGYFN GRILGVC PANDD
QDWSLNIKKAIVSALQVQFDENKDKVEESDFSGRCPT EYRKIRNEDNMVVM EK RKDLNLC
DDRRIDL RQTPDQALGQLKEMIRHYMHPMGSDLS CRM TLKDQVVSEVDCEERHVLVHRSH
KPVHLSYVKMMLKESKDGVAADLGQTDSEPKRPYLSFDHKHKNP TETDVVEVLK KLCSEI
SEPQASIETSFTFQKLVDKLRYLSAETASVDES VKTSVCPAHAYRIRELF LDASAF AAS
DGSIRTLVKAHENQELSITRSTALFTVVAMKAAPNKETVQVLLPVIASEKTIRPMLLGS
VLVRRYCEKSADCASNSGVKDARDAYLARLATAKDANERITIVRALENLNVNTEGVDNMI
NAMDEIIKSDAEPALRAAAVNALSNDASHMDRYKSLVMDESM PNEARIAAFQKMMKNGGM
SHIKDLFTVKGECKMKNYVLT YVDNLKSKNDLRRQTVSGDVELPEQP KREIGITRNIARE
YGPYTFEYDVIYPETHENVTRSINGRLIRAKNDQLKEIVEIQITQNGFERELTNAMALME
KKSFSQSIMQFVRDTLKM LAQIRKNADDNHHMKITVQINGKDVYYT DVFQDLK KMKELI IK
RAEKIINEKKVDRSIGGVLLDSKLVLP TITGLPLMYKFGDNFLIRYDGEFSGEK GDRHIK
LNGGFVAGVYGMKLLVKDQKMGYEYDGKLA YTPILDMDIQKKEHSLLLRFNTK DVERRT
IMRFKQSLREKRATGEEKDYENEITPESRSDQCFSFFLLDYCRKASHIKGLIFPNVEYYV
VKPEKEVTALELLLKGETEDKTRRYVAELTAVGSPSNKQAKAQIEVTKGEEYKITLKSPE
HEFNTEFTIHADKNNLKMHMDFPNV FQADLTGTFQHDKENNVRKNQLNLQYKFAGDEKPH
TVDYENEF SFNLKRSSKDKNSGVDYRAKYMSSHFPILNHKVNIQFKYRPFKVNELNLEGE
FGRELQHKFQLMRNSQIEVEEVRP FKMHGNSDIKLMANDLDIDYDLKSEFKYESNKG TPI
ELQYKISGKDRSKRAADLGAEDVEGVIDYKNNGSPIDSKMHAHLKMKGNNYGYDSELKQT
QPQQYEGKITLSKNDKKIFINHKSEMTKPTNTFHLKTDADVSYS DSDMKKH YQMEFKKEN
DIYTMRSTVERNGQMFYENHLTIHKGGKLNLYRRNDRKILLDLDNALSPREGTMKLNK
DREYNFVMKREPLRFRDITVEGNENAYIKNGKLHLSLMDPSTLSLVTKADGKIDMTVDLI
SPVTKRASLKIDSKKYNLFHEGELSASIVNPRLSWHQYTKRDSREYKSDVELSLRSSDIA
LKITMPDYNSKIHYSRQGDQINMDIDGTLIEGHAQGTIREGKIH IKGRQTD FEIESNYRY
EDGKLIIEPVKSENGKLEGVLSRKVPSHLTLETPRVKMNMKYDRYAPVKVFKLDYDGIHF
EKHTDIEYEPGVRYKIIGNGKLKDDGRHYSIDVQGIPRKAFNL DADLMDFKLKVSKPEDS
NKAQFSYTFNEYTETEEYEFDPHRAYYVNW LSSIRKIYIQNFIVEDN

>BBE74942.1 Putative Cry j 4 [*Cryptomeria japonica*]

MTATAMTTAALRLLIALLLVAAPAECLPLRARGRWIVDEATGLRVKLACVNWPGLHLEPGL
PEGLNRLPVTTIAHTISSLGFNCVRLTYSIQMVTEKSYTEATVGGQTF AQLNLTEPASGIE
GNNPGFLQLGHVAA YDSIVAALAEAGVMVILDNHVSKPKWCCA VDDGNGFFGDSYFDPRL
WQRGLGLMATHFNNTPNV VAMSLRNELRGNRSTSARWSKYMQRGAATVHEANPNVLVLS
GLHFDTILSFLPVLPVTLPFKEKIVYEGHWYSFGVPWHDGLPNDICLNETS RFKDNIGFL
TSSINGTAAPLVSEFGIDQRYVNDNDNRYLNCILAFLAEEDVDWALW TMGGSYNYRSDK
EPVQDFEETYGFFNRDWSRIRNPDFISRLKEIQPIQDPYLSPGPYYQIIYHPASGLCVE
SSIGNTIHLGSCQSVRSRWN YDASVEGPIGLMGSSSCISTQGNGLP AIMTEKCSAPNNTL
WSTVSSGQLQLGTRVDFEDGKEKWMCLDGSRSPLITTECICITDSHCYPNQNP EKQWFK
VITTKQLLHQL

>COMPARE010 Cha o 3 Glycosyl hydrolase 5 family [*Chamaecyparis obtusa*]

MTSAGVAPTALRLLTALLLLLVAAPSHSLPLLTRGRWIVDEATGLRVKLACVNWVGHLEP
GLPEGLNRLPVATVAHTISSLGFNCVRLTYSIHMLTRTSYTNATVAQTFARLNLTEAASG
IEHNNPELDDLGHVAA YHHVVAALSEAGVMVILDNHYSKPKWCCA VDDGNNGFFGDRYFNP
NTWVEGLGLMATYFNNTPNVVAMSLRNELRGNRSTPISWSRHMQWGAATVHKANPKVLVI
LSGLQFDTDLSFLPVLVTLPFKEKIVYEGHWYSFGVPWRTGLPNDVCKNETGRFLSNVG
FVTSSANATAAPLFMSEFGIDQRYVNDNDNRYLNCILAYLARRDLDWALWTMGGSSYYYS
DKQPVKDFEETYGFFNHDWSRIRNPFISRLKEIQPIQDPYLAPGPYYQIIYHPASGLC
VESGIGNTVHLGSCQSVRSRWNVDASVKGPIGLMGSSSCISTQGNGLPAIMTENC SAPNN
TLWSTVSSAQLQLGTRVLGKDGKEKWMCLDGSKSPLISTNECICITDSHCYPKLNPEKQW
FKVITTNKQLLHQLQL

>SHD75396.1 Tropomyosin Putative Sar s 10 [Sarcoptes scabiei]

MYEAIKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRGLQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHR SITDEERMDGLENQLKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNLKSLEVSEEKAQQREEA YEQQIRISTAKLKDAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDTFAELLAI

>COMPARE002 Protein of unknown function, partial [Sinapis alba]

SPDSDLEAFSHNPAHGSAFAPLAFQPSAMTNCANQRFLSY

>COMPARE003 Protein of unknown function, partial [Sinapis alba]

ITLKVVVFHLRRSSHLFYTSQVISQSRTRVKLNRVFFPR

>COMPARE004 Protein of unknown function, partial [Sinapis alba]

IKARLRNRSRRCRKTVA

>COMPARE005 Protein of unknown function, partial [Sinapis alba]

GKETNKDSLNGERTGKSPA

>Q647G8 Allergen Ara h 7; 2S albumin [Arachis hypogaea]

MVKLSILVALLGALLVVASATRWDPDRGSRGLRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEQEQQEQDEYPYSQRGSRGRRPGESDEDQEQRCCNELNRFQNNQRCMCQALQQIL
QNQSFRFQQDRSQLHQNGEGAQELAPELRVQVTKPLRP

>COMPARE014 Mes a 1 [Mesocricetus auratus]

HYQNLEVSPSEVDGKWYSLYIAADNKEKVSEGGPLRAYIKNVECIDECQTLKITFYTKVE
GVCQEHTIVGRKGEDGKYITDFSGQNYFHIVEKSDDTMTFHNVNVDSDGKTNVILVVGRG
ESSSIEQKQRFEKTAEEYDIPKENIEDLVPTDNCDQ

>COMPARE006 Putative Que m 1 [Quercus mongolica]

MGVVAYESEDASVIPPARLFKAFVLDSNLIKVPVQALKSTEIIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTFSFSVVFGLDFDKLENVSTETKIVASPDGGSIVKSTCK
YQTKGDFQLTDELIRGGKEKASGVFKA VEAYLVAHPDGY

>ANW10058.1 Ras k 1 parvalbumin [Rastrelliger kanagurta]

MAFASVLKDAEITAALDGCKADGSFDHKKFFKACGLAGKSGDDVKKAFIIDQDKSGFIE
EEELKLFLQNFKAGARTLSDAETKAFLKAGD TDGDGKIGVDEFAAMIKG

>COMPARE007 Putative Que a 1 [Quercus alba]

MGVFTYESEDASVIPPARLFKAFVLDSNLIKVPVQALKSTEIIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTYSFSVIEGDALDFDKLENVSTETKIVASPDGGSIVKSTSK
YQTKGDFQLTDELIRGGKEKASEVFKAVEAYLVAHPDLYKP

>COMPARE011 Putative Mal f 7 [Malassezia furfur]

MNNEKYCSVADYDVKWFKERCSHPTDVKTWKIAGTDLKIEMDPKPEYEL YCFNYTTTF
GNLPDAGAKELDDATKKACSAKSGKYQSDPKKKSCRMDKDKDIDQFKEQCSQYQPSDRP
PYGDWSAGTSLNVVLNLKNA

>COMPARE012 Tropomyosin [anisakis pegreffii]

MDAIKKKMRKAMEIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDK
AQEDLSTANSNLEEKEKKYQEA EAEVAALNRRMTLLEEELERAERLKLATDKLEEATHT
ADESERVRKVMENRSFQDEERANTYESQLKEAOMLAEEADRKYDEVARKLAMVEADLERAE
EERAEAGENKIVELEEELRYDGNLKSLEYSEEKALQREDSYEEQIRTVSARLKEAETRA
EFAERSVOKLOKEVDRLEDELVHEKERYKSISELDLLQELSGY

>XP_001732036 Protein of unknown function [Malassezia globosa CBS 7966]

MVSLNIFSAAFVASLASAVFAAPSALERRAAPDNTVWVTSVADHCLILPRHKMSVGDSES
PGNMRSFCTKPYSSKQGQLASDFWTKAHFKKTDKYVQITGCINPNVQSTLLSNDEGGQYD
SNGGEGGRGNPAGSVCLGYSSYVELVEPAGNRACIRCCYDPSDCDVSQDEAGCETVIPGK
YDC

>XP_015174445.1 Allergen Pol d 3; dipeptidyl peptidase [Polistes dominula]

MISLRSFVFLNGFIFVLLTGRTVSYVLDKDNLDRVVFRTQDDSNFPKRPFQLEETYTADY
LPRNFNGTWTSDTTLIYISETVGEILQFDVVKQQSTVIIDVSIFDDYLVESEYLLSPTGRF
LLIGYDLQKGFYSTFMRYVIYDTELQYDKIGNGMHIALVRWAPLTDDLIYILDNNIYY
KRFSKNGFNDVQRVTDDGIAGIYNGVADWVYEEVLHGSSAIWFSPDGKRLAYATFDDR
KVHEILYLHYGEPGSLGDQYPTVEVKIKYPKAGTPNPVSLTLVDLHDPTLNKINLEAPVD
IVGIDNVL TNVQWKDFNTIATWSNRVQNETEIVWYNVYGETVETLHIEEPEGWVDIKNL
FFYNGSTYMRKLQQSGTKAGRHHVTRYEKVVGSTLIQKDLTPGAIEVQDIRAIDHFNRI
YYLASGPGEPSQRNLYSVPADGSKEPTCISCNVITPEGNQCKYADVFSFSPFRSYALVCQ
GPDPTFIDIFDSNHRKIFSWEHNLMRLRLTKRELPIVKDLYVHANGYDSKVRLLLPHNF
DESKSYMLVNVYAGPNTAKINDAASYSYQSYMTNRSVIYAYIDGRGSSNKGSNMLFEI
YRNLGTVEVEDQITVTRKLQEMYSWIDSKRTAIWGWSYGGFCTAMVLAKDVDSVFKCGIS
VAPVSSWIYYDSIYTERFMGLPTPEDNLKGYDGTDVSRRVEGIRGKKFMLIHGTGDDNVH
YQQSLALAKSLEESDILFEQITYTDEAHALYGVLPPLYHSMDFWSECFWSNTH

>XP_016648029.1 Pru m 7 dipeptidyl peptidase IV [Prunus mume]

MKLGAFATFLLVCLLLSSSVFEVTMAGSSFCDSKCGVRCSKAGYQERCLKYCGICCEKCHC
VPSGTYGNKDECPCYRDLKNSKGNPKCP

>COMPARE172 Allergen Fag e 4; antimicrobial peptide, partial [Fagopyrum esculentum]

AQCGAQQGGATC

>AEG47274.1 Allergen Tri tu 14.0101; non-specific lipid transfer protein family 1 [Triticum turgidum]

MARSAVAQVVLVAVVAAMLLAVTEAAVSCGQVSSALSPCISYARGNGASPSAACCSGVRS
LASSARSTADKQAACKCIKSAAGLNAGKAAGIPTKCGVSVPYAISSSVDCSKIR

>COMPARE059 Allergen Ole e 7; non-specific lipid transfer protein family 1, partial [Olea europaea]

APSQGTVTAKLTSCVSYKDXQ

>COMPARE138 Allergen Tri t 1; putative beta-glucosidase, partial [Trichophyton tonsurans]

NNMAFSLGVKGPDGSVKQLVDFEQDFVAL

>BAA23361.2 Allergen Gly m 5; beta-conglycinin (vicilin, 7S globulin) (precursor) [Glycine max]

LKVREDENNPFFYFRSSNSFQTLFENQNGRIRLLQRFNKRSPQLENLRDYRIVQFQSKPNT
ILLPHHADADFLFVLSGRAILTLVNNDDRDSYNLHPGDAQRIPAGTTYLVNPHDHQNL
KIIKLAIPVNKPGRYDDFFLSSTQAQSYLQGFSHNILETSFHSEFEEINRVLFGEEEEQ
RQEGVIVELSKEQIRQLSRAKSSSRKTISSEDEPFNLRSRNPIYSNNFGKFFEITPEK
NPQLRDLDFLSSVDINEGALLPHFNKAIIVILVINEGDANIELVGIKEQQKQKQEEE
PLEVQRYRAELSEDDVFVIPAAYPFVVNATSNLNFLAFGINAENNQRNFLAGEKDNVVRQ
IERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQKEEGSKGRKGPFPFSGALY

>COMPARE103 Allergen Cor a 1; PR-10 protein [Corylus avellana]

GVFNIEAETTSVIPAAAXLFKSYVLDGDKLLPKVAPQALTSVENVGGNXXP

>CBA35339.1 Allergen Onc m 1; beta parvalbumin [Oncorhynchus mykiss]

MACAHLCKEADIKTALEACKAADSFNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFPCARVLTDAETKAFLKAGDADGDGMIGIDEFAVWVKQ

>CBA35340.1 Allergen Onc m 1; beta parvalbumin [Oncorhynchus mykiss]

MAFAGLNDADVAALAALACTAADSFNHKAFFAKVGLAGKSNDDVKKAFYVIDQDKSGFIEE
DELKLFLQNFASARALTAETKAFLADGDKDGDGMIGVDEFAAMIKG

>BAB55663.1 collagen alpha 2 chain [Oncorhynchus mykiss]

MLSFVDNRILLLLAVTSLASCQSGGLKGPGRGAKGPRGDRGPQGPNGRDGKAGLPGIAGP
PGPPGLGGNFAAQFDGGKGSDDPGPGMGLMGSRGPNPAPGPQGGFTGHAGEPGEPEGQT
GSIGARGPTGSAGKPGEDGNNGRPGKPGDRGGPQTQARGFPPTPLPGMKGHRGYNGLD
GRKGESGTAGAKGETGAHGANGSPGAGSRGLNGERGRAGPAGPAGARGADGSTGPAGPA
GPLGAAGPPGFPAGPKGEIGGAGSNGPSGPQGGREPGINGAVGPVGPVGNPNNGIN
GAKGAAGLPGVAGAPGFPGRGGPQPQGGSTGARGLGGDPGSPGQKGDGSAKGEPEGHS
GVQGAAGPAGEEGKRGSTGEVGATGPAGLRGARGGAGTRGLPGLERGGPIGMPGARGAT

GPGGIRGAPGDAGRAGESGLTGARGLPGNSGQGGPPGKEGPPGAAGLDGRTGPPGPTGPR
GQPGNIGFPGPKGPGGEAGKGGDKGPTGATGLRGGPGADGNNGAPGPAGVVGNTGEKGEQ
GPAGAPGFQGLPGPAGPAGEAGKAGNQGMPGDQGLPGPAGVKGERGNSGPAGSAGSQAIGAI
GARGPAGTPGPDGGKGEPSVGVGAAGHQGPGGMPGERGAGGTPGPKGEKGEGGHRGLE
GNMGRDGARGGPGPSGPPGPGSGANGEKGESGSGFGPAGPAGLRGPSGERGEGGPAGLPGFA
GPPGSDGQSGPRGEKGPAGGKGDVGPAGPAGPSGQSGPSGASGPAGPPGGRGDAGPSGLT
GFPGAAGR VGGPGPAGIAGPPGSAGPAGKDGPRGLRGDPGPGGPQGEQGVVGPAGISGDK
GPSGESGPPGAPGTAGPQGVLPSPGFVGLPGSRGDKGLPGGPGA VGEPEGRLGPAGASGPR
GPAGNIGMPGMTGTQGEAGREGNSGNDGPPGRPGAAGFKGDRGEPGSPGALGSSGQPGPN
GPAGSAGRPGNRGESGPTGNGGPVGA V GARGAPGPAGPRGEKGGAGEKGDGRGMKGLRGHG
GLQGMPGPNGPSGETGSAGITGPAGPRGPAGPHGPPGKDGRAGGHGAIGPVGHRGSPGHL
GPAGPPGSPGLPGPAGPAGGGYDQSGGYDEYRADQPSFRAKDYEV DATIKSLNSQIENLL
TPEGSKKNPARTCRDIRLSHPDWSSGFYWIDPNQGCIA DA IKA YCDFSTGHTCIHPHPES
IARKNWYRSENKKHVWFGETINGGTEFA YNDETLS PQSMATQLAFMRLLANQATQNTITY
HCKNSVAYMDGENGLKKA VLLQGSNDVELRAEGNSRFTFN VLEDGCTRHTGQWSKT VIE
YRTNKPSRLPILDIAPLDIGEADQEFGLDIGPVCFK

>BAG93005.1 extensin/Ole e 1-like protein [Oryza sativa Japonica Group]

MARPRFATTAPLLALAVLAAVSVAVATAPAGKDPGGFVVTGRVYCDPCRAGFETNVSKS
IPGATVSV ECRHYGAGRESLKA EATTDEK GWYKVEIDQDHQEEICEVVLDKSSDPACSET
EKTRDRSRVPLTSNNGLKQNGIRYANPIAFFRKEPLADCGSILQKYDLK DAPETP

>BAG94438.1 Allergen Ory s 12.0101; profilin [Oryza sativa Japonica Group]

MSWQTYVDEHLMCEIEGHHLTSAAIVGHDGTVWAQSAAFPQFKPEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKKSGGITVKKTGQALVVG IYDEPMTPGQCNM VVE
RLGDYLVEQGL

>BAG93129.1 polygalacturonase [Oryza sativa Japonica Group]

MGFVRLFLLAMVCVA AHAKDY PKEEGA KAEGPAAASGGGGGSTHDVVKLGKGDGKTDS
TKAVNEAWTAACAGTGKQTIVVPKGDFLTGPLNFTGPCKGDIVIQLDGNLLGSTD LALFK
SNWIEIMRLESLEISGKGLDGQGA AVWSKNSCAKKYDCKILPNTLV LDFVNNGLISGIS
LVNPKFFHMNVFKSKNITIKDVTITAPGDS PNTDGIHMGDSSKISIIDTVIGTGDDCISI
GPGTEGVNISGVTCGPGHGISVGS LGRYKDEKDVTDTVKNCVLKKSTNGVRIKSYEDAA
SVLTASKFTYENIKMEDVANPIIIDMKYCPNKICTANGNSKVTIKDITFKNITGTSSTPE
AVSLLCSDKLPCTGVTLNDIKVEYS GTNNTMAVCKNAKGTATGCLKELSCF

>COMPARE073 Allergen Asc 1 13; glutathione S-transferase, partial [Ascaris lumbricoides]

RLIFHQAGVKFEDNRLKREDWPALKPKTPFGQPLLEVDGEVLAQSAAIYR

>COMPARE074 Allergen Asc 1 13; glutathione S-transferase, partial [Ascaris lumbricoides]

FGLAGKTPMEEAQVDSIFDQFKDFMAELRPCFRVL AGFEEGDKEKVLKEVA VPARDKHLP
LLEK

>COMPARE075 Allergen Asc 1 13; glutathione S-transferase, partial [Ascaris lumbricoides]

WIAERP KTPY

>AFP95338.1 Allergen Pro c 5.0101; myosin light chain 1 [Procambarus clarkii]

MAADLSARDVERVKFAFSIYDFEGNGTMDAFYIGDCLRALN LNPTLAIIEKVGGKEKRKE
KIIKLEEFIFIQA VKKDKDAGSYEDFMEVLKLYDKSENGTMMYAELEHILLSLGERLEK
SELEPVLKECCNEEDEDGFIPYEPFLKKMTQLL

>AIO08861.1 Allergen Der f 33.0101; alpha-tubulin [Dermatophagoides farinae]

MRECISLHV GQAGVQIGNACWEL YCLEHEIQPDGQLSPVKSTTTLSSETISNDSFSTFF
NETGNRFRVPRSIYVDLEPTVVDEVRTGEYRRLFHPEQLITGKEDAANNYARGHYTEGKT
LIEPVMRRIAKLAEQCSGLQGFLIFHSFGGGT GSGFSSLLMERLSVEYGKSKLEFAIYP
APAISTA VVEPYNSILTTHNTLEHSDCSFMVDNEAIYDICRRNLNIERPSYMNLNRLIGQ
IVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFP LVSYAPIVSSEKAYHEQFTVPEITG
TCFEPSNQMVKCNTRNGKYMACCLLYRGDVVPKDVNAIAIAIAIKAKSTIQFVQWCPTGFKI
GINYRPPTV VPSGDLAKVQRAVCLLSNTT AISEAWSRLNHKFDLMYSKRAFVHWYV GEGM
EEGEFSEAREDLAALEKDYEEVAAEYNADDDDDYDDR DGEFF

>QAT18644.1 Allergen Der p 33.0101; alpha-tubulin [Dermatophagoides pteronyssinus]

MRECISVHV GQAGVQIGNACWEL YCLEHGIQPDGQMPSDKTIGTGDDSFNTFFSETGSGK

HVPRAVYVDLEPTVVDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIVDLVLD
RIRKLSQCTGLQGFLIFHSFGGGTSGSFTSLLMERLSVDYGKKSLEFAVYPAPQVSTA
VVEPYNLSILTTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLNLRLIGQIVSSITA
SLRFDGALNVDLTEFQTNLVPYPRIHFPLVTYAPVISA EKAYHEQLTVSEITNTCFEPAN
QMVKCDPRHGKYMACECLLYRGDVVPKDVNAAIASIKTKRSIQFVDWCPTGFKVGINYQPP
TVVQVVIWLKYNVLFVCCPTLLPSLKLGLDWIINLI

>QAT18643.1 Allergen Der p 32.0101; inorganic pyrophosphatase [Dermatophagoides pteronyssinus]
MSIRSINLLTRQTIPGSLISIIGINNNFHNRYIYFSFKHPHQSFKYHHLSSASLSINFSI
SKNVHYKQQPYNIGNKVHFVQNHQLRKFATKTNNKMSTNYSVDNRGALNSLDYRIYFKN
DSNGKIISPWHDIPFADKSAKQYNMVVEIPRWTEKMEIATAEPMTPIKQDVKKGALRY
VKNVFPKGYIWNYGAFPTWENPNHIDQGTAKAGDNDPIDVIEIGSRIAKRGDVIPVKI
LGTIALIDEGETDWKIITIDTRDELQGMNNDVVEKLLPGLLRATVEWFRYKIPDGKP
ANKFAFNGEAKDREFAEKVVEETHQYWREMMENKAGEHQDLKKNITLGNSTINDEQAKQ
FLETRPASNTVEPNPIADQVAIDKWHHVKLI

>QAT18639.1 Allergen Der p 28.0101; heat-shock protein 70 [Dermatophagoides pteronyssinus]
MPSKTSKAPAIGIDLGTYSVGVFQNGSVEIANDQGNRTTPSYVAFTDTERLIGDAAK
NQVAMNPANTIFDAKRLIGRRFDEPSVKSDMKHWPFKVSESGKPKIEVEFKGEQKRFWP
EEVSAMVLTMMKETA EAYLGQKVTD AVITVPA YFNDSQRQATKDAGVIAGLNVLRIINEP
TAAAIAYGLDKKGGGEKNVLI FDLGGGTFDVS VLTIDNGIFEVKSTAGDTHLGGEDFDNR
LVNHVQVEFKRKF GKDIMS NKRALRRLRTACERAKRTLSSSTQTTIEIDSLHEGTFDYST
ITRARFEELCSDLFRSTLEPVEKALRDAKLDKSKIDEIVLVGGSTRIPKIQKLLSDFNG
KELNKSINPDEAVAYGAAVQAAILTGDTSNVVKDLLLDVAPLSLGIETAGGVMTTLIK
NTTIPTKQTQFTTYADNQP AVTIQVYEGERAMTKDNNRLGTFDLTGIPPAPRGVPQIEV
TFDVDANGILNVSAVDKSTGRQNKITITNDKGRLSKADIEKMVNEAEQYREEDERQRERI
SAKNQLEAYAFQLKSTMEEEAIKSKLSEEDRKT VLNKVEETLRWLDSNQLADKEEYHRQ
KELESACRPIMTKIYQQQQHPGAPGANGSCGSNA YPGYGGFNSNNDGPVVEEVN

>QAT18638.1 Allergen Der p 26.0101; myosin light chain [Dermatophagoides pteronyssinus]
MADLRPPEVEKARLHFDIYDFEGQGKVDYHLLGDLLRSLDLRPTQEMVAKNGWEKKGQK
YMTFEEFLPIYSQVKKDKDCGAYEDLVEGLKVYDKAENGTMMEAELAHVLLSLGENWMIR
K

>QAT18637.1 Allergen Der p 25.0101; triosephosphate isomerase [Dermatophagoides pteronyssinus]
MGRKFFVGGNWKMNRSRATNDLIKILTNTPLDPNTEVVGVPSIYLADVRHKLSKSIGV
AAQNCYKVAKGAFTEGISPAMIKDVGAEWVILGHSERRNVFGENDQLIGEKEVEHALNEGL
NVIACIGELFEEREAGKTTEVVFRQTQVISKHVKDWSKVLA YEPVWAIGTGKTASPPQA
QEVHQQLRQWFSTNISPQIAETIRIYGGSVTASNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>AGM32377.1 Allergen Copt f 7.0101; Per a 7 homologue [Coptotermes formosanus]
MDAIKKKMAMKLEKDNMTDRALLCEQQARDANLRAEKAEEEEARS LQKKIQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAESQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEELRVVGNLKSLEVSEEKANLREEEYKQKIKTLTTRLKEAEARAE
FAERSVQKLQKGSRQA

>NP_001138311.1 complement component, C1q-like [Apis mellifera]
MVVWLVLIA TSSSVYLAEEAIPDPNSKISTVNPSKLSTAVDCTGIIAFSATHASVDHAK
AVFAETLV DKG VGYVPQTGIFITNCPGLYQFSFAGYGSTDLRLTLKKKQNNSDSWRPVVG
TGAGGGANLILLEVDVGDQLAVFVDSGKISDGVTFSGYRIAKI

>XP_392204.2 platelet-derived growth factor/vascular endothelial growth factor, PVF1-like [Apis mellifera]
MPYSKCRTRFLRFFAICSFSTCGLVMAQLEDTRYDPDQRIVFPDRGRETANPALEGGPSGGG
IGELAKSIQLAKKISSINSRDDFLKLVKDVPKDISFFSSSRMGETERSNAERP NQALCM
PELQTVPLENEPSVIYPTCTRIKRCGGCCTHSLSCQPTATEIRNFEILVTILESSGK
LKYQGKRIVPIEHTQCTCDCKIKETDCNKKQSYVPEECTCACNNVDEQKKCNESNIKMW
HPDLCSCFCRETQECSTGFYFDQNSCRCLQVPLSRTWFTSTKGS DYRFGQTQRPDNVPPV
IIALDSDDP RRKPKPDPE

>COMPARE147 alpha parvalbumin [Mustelus griseus]

EVFEILDKDQSGFIEEEEELK

>COMPARE148 alpha parvalbumin [Mustelus griseus]

ALLAAGDSHDGKIGADEFAK

>COMPARE149 beta parvalbumin [Mustelus griseus]

LFLKNFSATAR

>COMPARE028 beta-lathyrin, beta-conglycinin, vicilin, 7S globulin [Lathyrus sativus]

YRLLEYKSKPHTLFLPQYTDADFILVVLGKAILTVLNSNDRNSFSLERGDITIKIPAGTI
AYLANRDDNEDLRVLDLAIIPVKNKPGQLQPFLLSGTQNPSSLGFSKVVLEAAFNTNYEE
IEKVLLEQQEQQHRRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKKSVSSESEPF
NLRSRNPIYSNKFQKFFFEITPEKNQQQLQDLDFVNSVEIKEGSLLPNYNSRAIVIVTVN
EGKGFELLGIRNENQREESDEEEEEEETSKQVQRYRAKLSPGDVFVIPAGHPVAINAS
SNLNLIGFGINAENNQRNFLAGEEDNVISQIQRPVKELVFPSSREVDKLLKNQRQSYFA
NAQPLQRE

>ABG35122.1 Allergen Der f 22.0101; Der f 2 paralogue, contains Der p 2-like domain/MD-2-related lipid recognition domain [Dermatophagoides farinae]

MNRFLIVCMALFCLAAAVQADETNVQYKDCGHNEIKSFFVTGGNPNQKSCVIHKHSKNQL
RISFVANENTGNKINTRFICNLGGIELGWPGIDGTACQGHGLSCPLTKGQTYNYHLDNFN
LGDDVPTANVTATVRENGHGGDLLCGRMHISLQN

>COMPARE170 Allergen Cit s 7; gibberellin regulated protein, partial [Citrus sinensis]

GSDFCDSKCAVRCSKAGR

>AVD29823.1 Allergen Art ar 2.0101; pathogenesis-related protein PR-1 precursor [Artemisia argyi]

MGHLRNISLVLAISFAILHLSHAHETYGEPGNTDPPDYVHAHNCIRRVLGMKPLCWDELA
KVAQAWAETRTPDCSLIHSDRCGENMAQGAINGSMVAQLWLDERLDYDYNENKCIKMCGRH
YTQIVWANSERVGCGRALCSNGWAYIIVCNYPGPNVVGQKPY

>ABC86902.1 Allergen Bla g 9.0101; arginine kinase [Blattella germanica]

MVDAAVLEKLEAGFAKLAASDSKSLLRKYLTKVFDNLKTKTPTFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYTVFADLFDPIEDYHGGFKKTDKHPPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYFPNPCLTEAQYKEMEDKVSSTLSGLELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQHANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDDL
QVYRRLVTA VNDIEKRVPFSDHDDLGLTFCPTNLGTTVRASVRIKVPKLAADKKKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKGMNDGIAELIKIESSL

>AHL24656.1 Allergen Ole e 14.0101; polygalacturonase [Olea europaea]

IPHNGVRRGLVGETIFDVMKYGAKADGRFDNAQAFIKAWKAACESTGPAKVVIPKGFVFA
GEVVFQGPCTAPKPITIEIQGNVLASTDVSAYTSGSWIMLEEIDGLVINGGGTINGRGKS
SWQFAGANNEGPLLPSLTFKKVKNSEMHDVNFVDSMGFHSKVADSENKISKLKISAPG
DSPNTDGMHISCSTNVNVTDSIIGTGDDCVSIGHGTTDILVSGITCGPGHGIVGSLGKR
PDETDVKGISVINCTLTGTTNGARIKTYHASPSIQASDILYKDIIVTDVKNPILIDQHYD
SKKKPEQSKVKISGVHFVNIKGTTVSEIPVALNCSEAVPCEDVELADIDLAPSGAAGSLK
SVCANAKFVLKGPPIPPGC

>COMPARE128 acidic endochitinase, class III chitinase, partial [Punica granatum]

GDIAIYWQNG

>COMPARE022 vicilin/ 7S globulin [Prunus dulcis]

MAIKITIKASYKLPFFFFFFLSTLFLASSSVTPLINALSDYHNQKCQQSICRGVGGRHSL
RSKDHPQDAREEYFYCSQSCGTSEDPEQCETECRERFDEQLKKEAEEQQKQEEEEEEGP
TFNPNPYYPFKFGLRPRFLAEEGAYFVLGSFARLSHLLRGRIQNYRAALLQTTPTGTFVLP
YHLDAESIFVWNGRGTTLVMKDTKQSFKIENGDVIRVPAGATTYLINNHTTENLSLVQ
LFQPVNTPDLFEEFFPAGYKDPEPGSDYSFLHGTESYYSVFSNDLLEAAFDVPREQLEKA
FGQQKREGMIIRASKEQLDALSKQAYPWWRKLVPWSMGSDLNFNLLSQRPLHSNNYKGFY
EASPOEFKQLQDMNVSVA MLNPEAMMVPHYNSKATYLMMVVDGMGYFEMACPKFTIPA
SEEEMEYQEEQADQQSGVFSKVSGLSLGDFVIPAGHPVSIVAQNNNNNNNNNNGNQNK
LRIVGFGINAGNNIRNFLAGQEGNIMQMEREATQLTFGQEMEQLTSQKQSYFVPASRR
GSSTEKA

>CAA67128.1 Allergen Tri a 17.0101; wheat beta-amylase [Triticum aestivum]

MAGNMLANYVQVYVMLPLDVVSVDNKFEKGDEIRAQLKKLTEAGVDGVMIDVWWGLVEGK

GPKEYDWSAYKQVFDLVHEAGLKLQAIMSFHQCGGNVGDVVNIPIQWVRDVGATDPDIF
YTNRRGGTRNIEYLTLGVDDQPLFHGRTAVQMYADYMASFRENMKKFLDAGTIVDIEVGLG
PAGEMRYPSYPQSQGWVFPGIGEFICYDKYLEADFKAAAAGHPEWELPDDAGEYNDTP
EKTQFFKDNNGTYLTKGKFFLSWYSNLIKHGDKILDEANKVFLGCRVQLAIKISGIHWW
YRVPNHAAELTAGYYNLDDRDGYRTIARMLTRHHASMNFTCAEMRDSEQSEEAKSAPEEL
VQQVLSAGWREGLHVACENALGRYDATAYNTILRNARPKGINKNGPPEHKLFGFTYLRLS
NELLEGQNYATFQTFVEKMHANLGHDPVDPVAPLERSKPEMPIEMILKAAQPKLEPPF
DKNTDLPVKDHTDVGDEVLVAPV

>COMPARE153 polcalcin [*Amaranthus retroflexus*]

MAAEDTPQDIADRERIFKRKETNGDGKISSELGDALKTLGSVTPDEVRRMMAEIDTDGD
GFISFDEFTDFARANRGLVKDVSKIF

>QCB92083.1 Putative Uro m 1; beta-expansin [*Urochloa mutica*]

MLAVVAVVLASMGALCAMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGAC
GYKDVDPKAPFDSMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESAGHV
EQEDVIPEDWKPDVTYKSKIQF

>QCB92082.1 Putative Uro m 1; beta-expansin [*Urochloa mutica*]

DGKWLDKATWYGKPTGAGPDDNGGACGYKDVNKAPFNSMGACGNPIFKDGLGCGSCYE
IKCDKPAECSGEPVIVHITDQNYEPIAA YHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQF
RRVKCKYPANTKIAFHVEKGCNPNYFALLIKYAAGDGDIVAVDIKEKGSEEFIPLKHSWG
AIWRIDSPKPIKPIAVRLTSEGTTLVQDDAIPEGWKADTVYTSKLQF

>QCB92084.1 Putative Uro m 1; beta-expansin [*Urochloa mutica*]

MGSLANIVAVAAVLAALVGGGSCGPPKVPVPGPNITANYNGKWLPARATWYGKPTGAGPDD
NGGACGKIDVNLPPYSGMTACGNPIFKDGGKCGSCYEIRCKAPVECSNNPVTVFITDMN
YEPIAPYHFDLSGKAFGALAKPGLNDKLRHAGIMDIEFRRVRCKYTGGQKIVFHVEKACN
PNYLAVLVKFVADDGDIVNMELKEKASA EWKPMKLSWGAIWRVDTPKALKGPFSSIRVTSE
SGKCLVANDVIPANWKANTAYPSNIQF

>COMPARE060 nsLTP, partial [*Olea europaea*]

APSCSTVTAK

>COMPARE061 nsLTP, partial [*Olea europaea*]

APSQSTVTAKLTSCVSYLDDQ

>COMPARE063 nsLTP, partial [*Olea europaea*]

LTSCVSYLDDKSAKPTSDCCAGVK

>COMPARE064 nsLTP, partial [*Olea europaea*]

TVLAQATSKPDK

>COMPARE065 nsLTP, partial [*Olea europaea*]

SALALVGKVDVTGR

>COMPARE066 nsLTP, partial [*Olea europaea*]

SALANVGKVDVTGR

>COMPARE067 nsLTP, partial [*Olea europaea*]

VDTGRVSSLPK

>COMPARE068 nsLTP, partial [*Olea europaea*]

KCGMSVDLPPLDK

>COMPARE069 nsLTP, partial [*Olea europaea*]

PPIDKNYDCSKVP

>COMPARE104 gibberellin-regulated protein, BP14, partial [*Cupressus sempervirens*]

RCLKYCGICCEKC

>COMPARE058 gibberellin-regulated protein, snakin-1 [*Solanum tuberosum*]

VPSGTYGNKHECPCYRDKKNSKGSKCP

>COMPARE107 acidic phospholipase A2, partial [*Myrmecia pilosula*]

MVELNADAPFCALYNDR

>COMPARE108 acidic phospholipase A2, partial [*Myrmecia pilosula*]

IGASVLVADTTMSR

>COMPARE109 acidic phospholipase A2, partial [Myrmecia pilosula]
GVIQRMVLGADPR

>COMPARE110 phosphoglycerate mutase, partial [Myrmecia pilosula]
DAGYTFDVAHTSVLTR

>COMPARE111 phosphoglycerate mutase, partial [Myrmecia pilosula]
YGEEQVQIWR

>COMPARE112 phosphoglycerate mutase, partial [Myrmecia pilosula]
TLPYWNETIIPQLK

>COMPARE113 phosphoglycerate mutase, partial [Myrmecia pilosula]
AAMA AVAAQ GK

>COMPARE114 phosphoglycerate mutase, partial [Myrmecia pilosula]
IIIAAHGNSLR

>COMPARE115 phosphoglycerate mutase, partial [Myrmecia pilosula]
YADGPKPEEFPKFESLK

>COMPARE116 venom allergen 3-like, partial [Myrmecia pilosula]
WDNELETIAQR

>COMPARE117 hyluronidase-like protein, partial [Myrmecia pilosula]
NGGVPQEGDLKK

>COMPARE118 arginine kinase isoform X2, partial [Myrmecia pilosula]
VSSTLSGLTGELK

>COMPARE119 arginine kinase isoform X2, partial [Myrmecia pilosula]
LGLTEYQAVK

>COMPARE120 arginine kinase isoform X2, partial [Myrmecia pilosula]
GEHTEAEGGIYDISNK

>COMPARE121 arginine kinase isoform X2, partial [Myrmecia pilosula]
LVTAVNEIEK

>COMPARE122 esterase FE4-like protein, partial [Myrmecia pilosula]
DEFGGVVVAVEK

>COMPARE123 esterase FE4-like protein, partial [Myrmecia pilosula]
Y AEPPTGQQR

>COMPARE124 esterase FE4-like protein, partial [Myrmecia pilosula]
APGNLGLKDQVVALR

>COMPARE125 venom dipeptidyl peptidase, partial [Myrmecia pilosula]
VYYLATAPGEPSSQR

>COMPARE126 venom dipeptidyl peptidase, partial [Myrmecia pilosula]
NLYSVPLDASQKPT

>COMPARE127 venom dipeptidyl peptidase, partial [Myrmecia pilosula]
EYDHYITTNR

>COMPARE129 beta-1,3-glucanase, partial [Mangifera indica]
AGDWVQTNVLAYSADV K

>COMPARE131 beta-1,3-glucanase, partial [Mangifera indica]
GSNIELILDV PKDKLQDLTDSA K

>COMPARE132 beta-1,3-glucanase, partial [Mangifera indica]
IYDPDQATLQALR

>COMPARE133 beta-1,3-glucanase, partial [Mangifera indica]
NGNNLPPQAEVVTLYK

>COMPARE134 beta-1,3-glucanase, partial [Mangifera indica]
NVYNAIAAANLQGQIK

>COMPARE136 beta-1,3-glucanase, partial [Mangifera indica]
YIAVGNEIRPGDAEAQYVLPAMR

>COMPARE070 glyceraldehyde-3-phosphate dehydrogenase [Fusarium lateritium]
RVPTANVSVVDLTVRI

>COMPARE071 glyceraldehyde-3-phosphate dehydrogenase [Fusarium lateritium]
RTTYFGPTGNDSSSTVLKY

>COMPARE105 cypmaclein, Cypress gibberellin-regulated protein, partial [Cupressus sempervirens]
AQIDCDKECNRRCSKA

>COMPARE106 cypmaclein, Cypress gibberellin-regulated protein, partial [Cupressus sempervirens]
YCGICCEKCHCVPPGT

>COMPARE171 10-kDa allergen, partial [Humulus japonicus]
DNXFENGMKAXTSLYDXKYQ

>COMPARE072 elongation factor 1b/d [Echinococcus granulosus]
FDAHSYHQFPNYHEMESAYMRFLSKDIGKTSATEQKGDSYLVKEIQKVRDNIKSSLESNG
SWNERMEKLEAIVKEMSLRVNELEVQIQRLGQILPSESLKGAKPIRPVVVKAPPAEGGDD
DDIDLFGSEDEGEADKCKQMMAEQNKAAASKKEKPVAKSMIVLDVKPWDDTTNMAEMEKG
VRAITADGLLWGTSKL VPLVHGINKLQIACVVEDDKVGTDFLEESIMELEDYVQSVDVAS
FNKL

>P02845 Vitellogenin-2, partial, YGP40 fragment [Gallus gallus]
AEAPSAVLENLKARCSVSYNKIKTFNEVKFNYSMPANCYHILVQDCSSELKFLVMMKSAG
EATNLKAINIKIGSHEIDMHPVNGQVKLLVDGAESPTANISLISAGASLWIHNENQGFAL
AAPGHGIDKLYFDGKTITIQVPLWMAGKTCGICGKYDAECEQEYRMPNGYLAKNAV SFGH
SWILEEAPCRGACKLHRSFVKLEKTVQLAGVDSKCYSTEPVLRCAGCSATKTTTPVTVGF
HCLPADSANS�TDKQMKYDQKSEDMQDTVDAHTTCSCENEEST

>P81531.2 Allergen Bet v 7.0101; cyclophilin, partial [Betula pendula]
DFTAGNGTGGESIYGAKDXXXXXXXXTGPGLSMANAGPGTNG

>COMPARE145 pectate lyase [Hesperocyparis arizonica]
DNPIDSCWRGDSNWDQNRMKLADCVVGFSGSSTMGGKGGEIYTVTSSEDNPVNPTPGTLRY
GATREKALWIIFSQNMNIKLQMPLYVAGYKTIDGRGAVVHLGNGGPCLFMRKASHVILHG
LHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVTNAWIDHNSLSDCSGLIDVTL
GSTGITISNNHFFNHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVH
ANNYDQWNIYAIGSSNPTILSEGNSTAPNESYKKEVTKRIGCETTSACSNWVWRSTR
DAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQNAVVA

>AAC61261.1 Allergen Asp f 16.0101 [Aspergillus fumigatus]
MYFKYTAALAAVLPLCSAQTWSKCNPLAETCPPNKGLAASTCTADFTSASALDQWEVTA
GKVPVGPQGAFTVAKQGDAPTIDTDFYFFFGKAEVVMKAAPGTGVVSSIVLESDDLDEV
DLVRLGGDTTQVQTNFYFGKGDTTTTYDRGTYVPVATPQETFHTYTIDWTKDAVTWSIDGAV
VRTLTYNDAKGGTRFPQTPMRLRLAAGPAATPATPGHHRVGRWLDRLQRGTVHHVRQVRP
YRERQPRRVLHLLGQLWLLAEHQVRRLRRYSSSSSVTSSTTSTASSASSTSSKTPSTSTL
ATSTKATPTPSGTSSGSNSSSSAEPTTTGGSGSNTGSWLRRLRLWLWLSSTGSSTSAGA
SATPELSQGAAGSIKGSVTPALWCSAPSLPCWHSKQNDDFGLMHDTHHEGDVRTIHFHIG
VSPSFGV

>COMPARE023 2S albumin, partial [Prunus dulcis]
VTXEEGXYSSISDQSKVGE

>C0HJM6 Allergen Trip s 1.0101; endochitinase, partial [Triplochiton scleroxylon]
EQGGSQAGGSL

>COMPARE021 Allergen Mal d 1 [Malus domestica]
GVYTFENEYTSEIPPGRFLKAFVLDADNLIPKIPQA

>COMPARE137 Allergen Par j 1 [Parietaria judaica]
MVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGPSRSRPPTKHGW
RDPRLFRPPHRKKPNPAFSTLG

>AAB35977.1 Allergen Der f 7.0101; Mite allergen [Dermatophagoides farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVDPHADKFER
HVGIVDFKGEAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSVLTALFQDQTVRKEMTKVLAFAFKRELEKN

>P14292.3 Allergen Cand b 2.0101; peroxisomal membrane protein A [Candida boidinii]
MAPIKRGDRFPTTDDVYYIPPEGGEPGLELSKFVKTKKFVVVSVPGAFTPPCTEQHLPG
YIKNLPRILSKGVDFVLVISQNDPFVLKGWKKELGAADAKKL V FVSDPNLKLTKKLGSTI

DLSAIGLGTRSGRLALIVNRSGIVEYAAIENGGEVDVSTAQKIIAKL

>COMPARE018 Putative Bra r 3; lipid transfer protein [Brassica rapa]

MKIMVLTLMVFVILLTLFPAPNEAADTNVEAACDPKQLQPCLAAITGGGQPSGDCCAALKL

EQQPCLCGFSKNPAFAQYISSPNSRKVLTACGIPYPSC

>C0HJF9.1 Allergen Act d 12.0101; 11S globulin, partial [Actinidia deliciosa]

NRQPSKYGLEETI

>COMPARE020 Allergen Fra a 1; PR-10 bet v 1 homologue, partial [Fragaria x ananassa]

KITFGEGSQYGYVK

>COMPARE176 Putative Act c 4; phytocystatin, partial [Actinidia chinensis]

VAAGGWRPIEE

>AAX84656.1 alpha-tubulin [Tyrophagus putrescentiae]

MRECISVHVGGAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGTGDDSFNTFFSETGSGK

HVPRAVYVDLEPTVVDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIVDVVLD

RIRKLSAQCTGLQGFLIFHSFGGGTSGSFTSLLMERLSVDYGGKSKLEFAVYPAPQVSTA

VVEPYNLSILTTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYTNLNLRLIGQIVSSITA

SLRFDGALNVELTEFQTNLVPYPRIHFPLVTYSPVISAKEYHEQLTVAEITNTCFEPQN

QMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIAGIKTKRSIQFVDWCPTGFKVGINYQPP

TVVPGDLAKVQRAVCMLSNTTAAIAEAWARLDHKFDLMYAKRAVHWYVGEEMEEGEFSE

AREDLAALEKDYEEVGLDSTEAEAGGDGEEF

>Q5QKR2 Allergen Eri s 2.0101; ovary development-related protein [Eriocheir sinensis]

MWCSILLAAVMVAVAGGQSRFSYDGTPLADDVVVGGSGRQQFFASRQPRPQQLFVQERPQ

QVFVQQQPQPPVQPEPQQVQVQPPRPMFQMLPSFSQQA AVIQSVQPQVSSACPATYS

LVHTTYQGRVYHSSWCNLPGHRFSQSAARDYCRGLGEVTVMNRRGSFDLYSVDRTTDFDY

FFELLQHQPVS VWTRDLASTAPYEIRGSITRSGDSTAGQDCLSLEASTDGLFLLQDSCS

DRKAAVCVAHWQ

>BAF43535.1 Allergen Ani s 6.0101; serine protease inhibitor [Anisakis simplex]

MFQSTFFLVLMVCVATARFANKDHCPPNEEYNECGNPCQEKCDNGEPVICTYQCEHRCFC

KQGYVRLTEDGECVPEEFCKPIHY

>BAF47264.1 tropomyosin fast isoform [Pandalus eous]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFGLQKKLQQLENDLDSV

QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAA

DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE

ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE

FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>AAR08428.1 translationally controlled tumor protein, ClaTCTP [Cladosporium herbarum]

MLIYNDIISGDELISDSYDLVEVDGVA YEADCRKITIGGETFDTGANASAEGGDEEADDQ

KETKIDVVHAFQLQETNFDKKA YLGHLSYMKKIKESMAASGASEDEVKEFEKGAQTFAK

RVVGSFKDYEFLLIGPSMDPDAMVVLLNYREDGVTPYVTLWKHGLKSTKV

>COMPARE162 putative extracellular arabinase, partial [Aspergillus fumigatus Af293]

EDYQFGWNQL

>COMPARE163 Allergen Asp f 15; allergenic cerato-platanin Asp F13, partial [Aspergillus fumigatus Af293]

WPTFGSVPGFAR

>COMPARE164 allergenic cerato-platanin Asp F13, partial [Aspergillus fumigatus Af293]

PTLPGWNSPNCG

>COMPARE139 Allergen Blo t 12; chitin binding protein [Blomia tropicalis]

MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTHATHEETTSTQHHHEEVT

TQTPHHEEKTTEETHHSDDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWY

ITVMPCSIGTKFDPISRNCVLDN

>P86699 arginine kinase [Chionoecetes opilio]

MADAATISKLEEGFKKLQGATDCKDVFQDLKQTDKHPNKDFGDVNQFVNVDPDGKRVIST

RVRLIDDHFLFKEGDRFLQAANACRYWPSGRGIFHNDKKIISMQMGDLGQVYRRLVSAV

NEIEKRVPFSSHDRGLGFLTFCPTNLGTTVRASVHIKLPKXEKLEEVAGKYSLQVRGTRGE

HTEAEGGVYDISNKRRLMGLTEFQAVKEMQDGILELIKIEKEMQ

>ACT37323.1 Allergen Sta c 3.0101; SchS34, partial [Stachybotrys chartarum]

AGPIASRQIVPNYPASSTSKGFHLVVNVTDPSADFTPSINNFYVNSIHVGAALNYVGVTA
VPGRIFYQNGTAEIRYAQSTVISDGATPPVPFGLSLRPDEGSDVVSTARLDAGPGTTGV
RVS RFPEPYRFLQPETFLACNESLAYYQGDYFTVIKQADVTVGDDGSIDYNVPDNCISVR
LIPECTELNELPEDAYASHEFAADTQCYYDDVSALNWSEYGP

>ACV96855.1 arginine kinase [*Scylla serrata*]

MADAAVIEKLEEGFKKLEAATDCKSLLKKYLTKSVFDQLKGGKTSLGATLLDVIQSGVEN
LDSGVGVYAPDAEAYTLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKFV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMESKVSSTLSNLEGELKGTYYPLTGMTKD VQK
LIDDHFLFKEGDRFLQAANACRYWPTGRGIYHNDNKTFVWCNEEDHLRIISMQMGDDL
QVYRRLVSAVNEIEKRVFSSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYSLQVRGTRGEHTEAEGGVYDISNKRMRMGLTEFQAVKEMQDGILELIKMEKEM

>ADM53099.1 fibronectin-binding protein [*Staphylococcus aureus*]

MAYDGLFTKKMVESLQFLTTRVHKINQPDNDTILMVVRQNRQNHQLLLSIHPNFSRLQL
TTKKYDNPFPNPFARVFRKHLEGGIIESIKQIGNDRRIEIDIKSKDEIGDTIYRTVILE
IMGKHSNLILVDENRKIIIEGFKHLTPNTNHYRTVMPPGFNYEAPPTQHKINLYDITGAEVL
KYIDFNAGNIAKQLLNQFEGFSPLITNEIVSRRQFMTSSTLPEAFDEVMAETKLPPPIF
HKNHETGKEDFYFIKLNQFNDDTVTYDSLNDLLDRFYDARGERERVKQRANDLVRVQQQ
LHKYQNKLAKLIEEYEQSKNKDTEQLYGELITANIYRIKQGDKEVTALNYTNEEVVIPL
NPTKSPSANAQYYYKQYNRMKTRERELQHQLTKDNIDYFSTIEQQLHHISVHDIDEIR
DELAEQGFMKQRKNQTKKKKAQIQLQHYVSTDGDDIYVGKNNKQNDYLTNKKAKKHTHWL
HTKDIPGSHVVFNDAPSDTTIKEAAMLAGYFSKAGNSGQIPVDYTLIKNVHKPSGAKPG
FVTYDNQKTLYATPDYELIQKMKQS

>CAY85463.1 Allergen Tri a 35.0101; Dehydrin [*Triticum aestivum*]

MEHQGHGAGEKKGVVESITEKLPGGHGDHQQATGGTYGQQGHAGVTGENIKEKLPGGHGD
HQQTGMTGSETHATTATTDGNYGKSGHTGTDGTGENKSIMDKIKDKLPGQH

>COMPARE057 28 kDa major allergen [*Phaseolus mungo*]

GRREDDYDNLQL

>BAL72725.1 Allergen Pen m 4; sarcoplasmic calcium-binding protein [*Penaeus monodon*]

MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLA VRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGKKGFEFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSFAEVEKEIDEAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPEESC
SACYLFGPLKVVQ

>COMPARE140 PR-10, partial [*Foeniculum vulgare*]

GVQKSEVVITSA

>COMPARE141 lipid transfer protein, partial [*Foeniculum vulgare*]

AITXGQVTSKLG

>COMPARE142 lipid transfer protein, partial [*Foeniculum vulgare*]

GGDPTPACCGVK

>COMPARE143 lipid transfer protein, partial [*Foeniculum vulgare*]

GINYGAASALPGK

>COMPARE144 lipid transfer protein, partial [*Foeniculum vulgare*]

CGISIPYPISTNCSR

>AER70365.1 Allergen Ves v 6.0101; vitellogenin [*Vespula vulgaris*]

MRSRIFILLLVAVSNLDNNEIHGWKVGEEYQYLVRRTLTGLQTLSDQYAGILMKATLR
IQCNPDTLRAQLLKPQYAIHKKLPDGWDSRISDQMLEHKHLPLSNPFVIKLBHGVR
DLIVSKNVPTWEVNIKSISQFQADTQGENLKGKNTQIPEDDNPATFRVMEDCVSGK
CEVLYDVVPLTEDVLQHRPHILPKPELRGNGEHIYITKTRNYDKCEQRMDYYFGISGNAN
WESDIRNNDKIMKKSSTSNMVISGNLKNFVIQTA VTTTEIIMKPRLVDDQESIVISKMN
TLVSVNKVSSPIAPNPESTGNLVYTYNDPFSKTVQRRLGRPSVSPNSMSNELDSSADS
DEDLRLMREKYGKSDKMNVVSDDEKAFRQMKPTLHEAPKNPMLPLFIGNNGKAVVMSDKI
NSGKMVMTLVQEIASEMEDPNVMPDRETLEKFTIVSRLISSMSLEQINKAEGSLHSVWNE
IGSDETRMCKENARAVFRDAIANAGTGPALMTIKRWIEKKEIEGCEAADVLASIPKTAR
TPTAEYVDAFFSLASNPEVQKQTCLNSSAVLSFAELVHRAQVSNSSIYNHYPVNVFGRLS
SRRNDVLRKYIPFFAEELKKAIKDGDSPRIQVYILALGLTGHPKILNVLEPYLEGKERV

STYQRFLMVM SLRKLCEVKPSLARSVL YKIYLN TWDVHQIRCAA VNLIMRTNPP LDMLTR
MAQFTNTDFSGQVNSAVKSAIESAANLNYPEWEELTRNARKVLHLMNTESDKYYYSESHF
TEMEENDQLSYRMMLNYIGSVDNVIPLSTHFALQPSYNGFLSPVYELDMSISSVKS LLEM
YWHKSEKGDTEESFAEKTAKMLHIESDNVEQVEGNVFFKTPYLNRYFSFDNHTIERILHD
MVSPRSHSHVNMNKLLSYDITLSFPTETGLPFVYSLHVPTIKKFSVISKPDMKSKFDVRL
LTSTKHQGRVGFITPFDHQAFLSGIDNNMQVFLPCKLDFHLNNEKSRLDAALQPLKHNSK
TRLGHFSVIPYTSQYEIMSLRPLLLEKNTHRIQEKKTTHIRIPQNPNSIFSVEVEADNLA
EKIQQWLRSENK WEDMLSPSSLALGTYEKIDLFVKPDLQENEA VKFTATLDTKEIRSNNL
DTNDES WKS GNKVLKTMHQALDSPARRKEFLQEVVKGINS GKAYVIDAGLEVPGLWKS NH
ACTLCLASSNDENKFRSIFYWYTNIPSQDITYQMCVNGQTRSSPTT PFDYKKILDSNPTN
EFSINIQSGRTCTDNSLVTIKGQIKQSEDYKTYVQESRIVKRCDENVRNSVKDCQKAAEM
AKNLNEIDMTITKHNSAEESDTELEKIFHGTTKMLTGLNVRVVSEIQEHSDVNDNDIRVQ
IKLSPNMTSAEGMASKSGQILTFSDIHIDMGIDNDDMNEIEKGILHGATCTLRNNEAET
FDGKVYPLKLGKCAHVLFTTYPRNAPNEPNKRMSIPENMKVTVIAEETENK KELQILLG
NDEILFKSSGTEVSAWVNGQVKCSQKESYQHKNDET LFEIFELPGPAIKLISDKYDIK
LAYDTHVQIEVPHTYQQSVRGLCGDFDGRSEND FVTPKNCMLQKPEEFAATYILKERCE
GPALNNAKKAERSKCIRKVLRFSDVISDGEAGRPYVNWKQWGYHKKENKKQCNTYRTQII
TKDDNICFTIRPVPTCSSGCKSVVTKLKEYQLYCLPKNDSSLGMKKRIEQGANPDL SQRT
PTDNAMISVPLECVAT

>COMPARE079 glutathione-S-transferase [*Dermatophagoides farinae*]

MELGTLEGSMSETKPILGYWDARGLGQAIRLLTYAGVDFIDKRYTVGPPPNYDRSQWLN
DKYNLGLDFPNC PYYIDGNVKLSQSLAIRYIARKQK KLIGQNEHEEIRASLAEQQIIDMN
MAIARIAYNFNCEKLPKPEFLKSLPEQVELLSKFLGDQPFTAGANISYADFLLYEYLTKLK
ILVPEVYDKFENLKKFHGNVLEALPRVSEYIKKQPKAFHGPTSLWNGTYA

>AGF86397.1 Allergen Mel 1 1.0101; tropomyosin [*Penaeus latissulcatus*]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANIRA EKAEDDVNKLQKKLQQLENDFDQV
QEALLANTNAVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEA YKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSELSGY

>BAG92398.1 lipid transfer protein [*Oryza sativa Japonica Group*]

MARAQLVLVAVVAALLLAAPHAAVAITCGQVNSAVGPCLTYARGGGAGPSAACCGVRS
KSAARTTADRRTACNCLKNAARGIKGLNAGNAASIPSKCGVSVPYTISASIDCSRVR

>Q28895 Allergen Can f 7.0101; NPC intracellular cholesterol transporter 2 [*Canis lupus familiaris*]

MRLLVAAFLLLALGDLGPGGAVHFKDCGS AVGVIKELNVNCPAQPC KLHKGQSYSVNVT
FTSNIPSQSSKAVVHGIVLGVAVPFPIPEADGCKSGINCP IQKDKTYSYLNKLPVKNEY P
SIKLVVQWMLLDGNNQHLCWEIPVQIEG

>COMPARE029 11S globulin, partial [*Lupinus albus*]

PAEVLANAFGLR

>BAO50858.1 13S globulin [*Fagopyrum esculentum*]

MSTKLILSFLCLMVLSCSAQLLPWQKGQR SRPHHGHQFQHQC DVQRLTASEPSRRVRS
EAGVTEIWDNDTPEFR CAGFVAVRVVIQPGLLPSYSNAPYITFVEQGRGVQGVVPGC
PETFQSESEFEYPQSQRDQRSRQSESEESSRGDQRTRQSESEEF SRGDQHSRQSESEESS
HGDQHQKIFRIRDGDVIPSPAGVVQWTHNDGDN DLISITLYDANSFQNQLDGNVRNFFLA
GQSKQSREDRRSQRQTREEGGDRQSRESDDDEALLEANILSGFQDEILQEIFRNVDQETI
SKLRGETDQRGFIVQARDLKL RVPEEYEEELQRERGRDRKRGGSGRSNGLEQAFCNLKFKQ
NVNRPSRADVFNPRAGRINTVNSNNLPILEFIQLSAQHVVLYKNAILGPRWNLNAHSALY
VTRGEGRVQVVGDEGRSVFDDNVQRGQILVVPQGF AVVLKAGNEGLEWVELKNDDNAITS
PIAGKTSVLRAIPVEVLANSYDISTKEAFRLKNGRQEVEVFRPFQSRDEKERERYSIV

>AAS48514.1 Allergen Fag e 5.0101; vicilin-like [*Fagopyrum esculentum*]

IAVVTNGKKGKFMACPHISAEGKQSKRQREGKSIVHYETVNGDLSSGTVFVVPAGHPFVT
AASLEDNLELICFEVNADDNERIPLAGKNSL FKQFEREAKELAFEEKADVVDKLLKLEKQQQ
EFFFEGRRRRKEQEAGRSDA

>COMPARE101 Lipocalin, partial [*Phodopus sungorus*]

AGQETNEMYVVGK

>COMPARE102 Lipocalin, partial [Phodopus sungorus]

FKPVYATPENIVFTNK

>COMPARE167 vicilin-like protein, partial [Cocos nucifera]

ELAAAFGVSEEQLER

>COMPARE168 vicilin-like protein, partial [Cocos nucifera]

VSEGDVFWLPR

>COMPARE169 vicilin-like protein, partial [Cocos nucifera]

LSPHVNPSATEYGLLLR

>ACS49840.1 Allergen Gly m 7.0101; seed biotinylated protein 68 kDa isoform [Glycine max]

MASEQLARRENTTTEKEIHVEKHRVPMATHFEHLAEQAKESDITAGKDTPOGSIEALQA
GERVKDHAGKAMGDIGGRGKARETHELGAHFESLADKVTDHAAANVVGNKESQREARGGV
RDVVGKFEMRTEGGEKGNKDRPELKTRETVIGRTEKERGRESGGQVVAEKRETETARGR
VGAENEGARTTAVITCTLEKGGGTQKPIREEERESERSAWEQISNYSDQATQGVKEY
ERAKQAASETNTTTQTAQEKSAQAKNLAAQAKDATLEKGGQGYAVTKDTISSAAKTASE
KTAPVAEKAKDYTLQAAEKAKSAGGTTASYVGEKAVQAKDVAVESGKSAAGYAAKVAADL
RDKATAVGVAAAHFSAEKTVEGTKAAAHVVEGAAGYAGHKAAELASMSAGAVKGLAASAG
ETAKEYTAKKKEEAQRELEAKKPSQPQEAERPSEGIGETVRQYAQKPKPSERNPQKEGT
GSIVFTAIGETVSSAGEKVKKPKFNNTTGGESEGGGGKEEGKSVIGKSLTSIGEKLGDAKQ
REELLDNVTGNITEGGGEVLGAVGETVAEIQNMMPAEIVQERAHVRQAGGVLDIAIGET
IAEIAETTRVMVSGEDERVLRQSVVLETRVTGRAKHEEGSHGA

>CTQ87571.1 Allergen Pin p 1.0101; pine nut 2S albumin [Pinus pinea]

MGVFSSPMSTLRWVTLFAALLSLEWGTAHEDIVMDGDQVVQQQGRSCDPQRLSACRDYL
QRRREQPSERCCEELQRMSPHCRCRAIERALDQSQSYDSSDSDSDGAPLNQRRRRRGE
GRGEEEEAVEAEELPNRCNLRESPRCDIRRHRSYSIIGGSD

>XP_014705584.1 Allergen Equ a 6.01; lysozyme C, milk isozyme [Equus asinus]

MRSTLIISLLSCFFAVYEAKVFSKCELAHKLKAQEMDGFGGYSLANWVCMAEYESNFNTR
AFNGKNANGSSDYGLFQLNNKWWCKDNKRSSSNACNIMCSKLLDDNIDDDISCAKRVVRD
PKGMSAWKAWVKHCKDKDLSEYLASCNL

>P11376 Allergen Equ c 6.01; lysozyme C, milk isozyme [Equus caballus]

KVFSKCELAHKLKAQEMDGFGGYSLANWVCMAEYESNFNTRAFNGKNANGSSDYGLFQLN
NKWWCKDNKRSSSNACNIMCSKLLDENIDDDISCAKRVVRDPKGMSAWKAWVKHCKDKDL
SEYLASCNL

>XP_018814692.1 Allergen Jug r 6; sucrose-binding protein-like [Juglans regia]

MAFKPKIPIALLLLTSLLAICAGLALAMQDPELKQCKHQCRHQRFDEQEKEHCQRSCDE
YHIEKKARERAERRRSEEGSSREEGYEEELGGEREENPYVFEDEDFETRVRTDEGRIQ
VLEKFTKRSKLLRGIENFRVAILEANPQTFISPAHFDAELVVFVAKGRATITTVREEKRE
NFNVEQGDIMRIPAGTPVYLINRDENEKLYIVKILRPVSVPGHFVAFHGGGEDPESFYR
AFSWEVLEAALKTRRDQLEKLFQKQVVIKASKEQIRSMKHEETTPRIWPFGGDSTH
PFNLFHKRPSQSNQFGRLEFETDPKECKQLQDLDMVSFANITKGS MAGPYNSRATKISV
VIEGEGYFEMACPHLSSSGSRGQREGSGSSRRRSRSGPSYQQIRGRLRPGMVVAPAGHP
VAVIASRNKNLQVLCFDVNAQGNIRFPLAGKNNIVNEFEKEAKELAFNFPAREVEKIFRN
QDQEFFFPGPSRQPEEGGRAFE

>COMPARE165 Df642, partial [Aspergillus fumigatus]

RLQSEVEVAIMD

>COMPARE166 Df642, partial [Aspergillus fumigatus]

QALIAELAQVH

>COMPARE178 Allergen Act d 12; partial [Actinidia deliciosa]

GEAVFNDRIR

>COMPARE180 Allergen Act d 12; partial [Actinidia deliciosa]

LVENIDNPSRADIFNPR

>COMPARE015 Allergen Act d 12; partial [Actinidia deliciosa]

LTSVNSFNLPILNYLRLSAEKGVLYR

>COMPARE080 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

DVDEIVLVGGSTR

>COMPARE081 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

AKFEELNMDLFR

>COMPARE082 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

ITPSYVAFTADGER

>COMPARE083 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

NQLTTNPENTVFDAGR

>COMPARE084 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

DNHLLGKFDLTGIPPAPR

>COMPARE085 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

KVTHAVVTVPAYFNDAQR

>COMPARE086 Allergen Aed a 8; HSC-70, partial [Aedes aegypti]

IEIESFYEGDOFSETLTR

>COMPARE150 Alt a 1 homologue [Ulocladium botrytis]

MQFTTIASLFAAAGLAAAAPLESRQDNASCPVTTKGDYVWKISEFYGRKPEGTYYNLSLGF

NIKATNGGTLDFTCSAQADKLEGHKWYSCGENSFMDFSFDSRSGLLLKQKVSDE

>COMPARE158 Allergen Tha p 2 [Thaumatococcus panyocampa]

SYSQSYSYVQCIQDSECNGCWK

>COMPARE159 Allergen Tha p 2 [Thaumatococcus panyocampa]

KAEEAIDLTYQEK

>COMPARE160 Allergen Tha p 2 [Thaumatococcus panyocampa]

NNLFLGSLVAGDILSR

>COMPARE044 conglutin gamma [Lupinus angustifolius]

AGIALGAHHLEENLVVFDLERSR

>COMPARE030 conglutin gamma [Lupinus albus]

AGIALGTHQLEENLVVFDLAR

>COMPARE054 conglutin beta [Lupinus luteus]

AIFIVVDEGEGNYELVGIR

>COMPARE055 putative TAG factor protein [Lupinus luteus]

AVCNLFALEGATVIFTYVK

>COMPARE034 conglutin gamma [Lupinus albus]

HSIFEVFTQVFANNVPK

>COMPARE046 conglutin gamma [Lupinus angustifolius]

ISGGAPSVDLILDKNDVWR

>COMPARE048 conglutin gamma [Lupinus angustifolius]

KISGGAPSVDLILDK

>COMPARE036 conglutin gamma [Lupinus albus]

KISGGVPSVDLIMDK

>COMPARE056 conglutin alpha [Lupinus luteus]

RPFYTNAPQEIIYQQGR

>COMPARE051 conglutin gamma [Lupinus angustifolius]

SRVGFNSNSLK

>COMPARE041 conglutin gamma [Lupinus albus]

SRVGFNTNSLK

>COMPARE052 Allergen Lup an 1; conglutin beta [Lupinus angustifolius]

SVPAEATEVGLLVFST

>COMPARE053 conglutin gamma [Lupinus angustifolius]

VGFNNSLKS YGK

>COMPARE043 conglutin gamma [Lupinus albus]

VGFNNSLKS H G K

>COMPARE146 DB3S, dioscorin, tuber storage protein, partial [Dioscorea polystachya]

VEDEFSYIEGNPH

>COMPARE087 Allergen Aed a 5; Sarcoplasmic Ca⁺ (EF-hand) binding protein, partial [Aedes aegypti]

AFIDAHYQMMDINNDGLVSIEEYR

>COMPARE088 Allergen Aed a 5; Sarcoplasmic Ca⁺ (EF-hand) binding protein, partial [Aedes aegypti]
YQELYAQFMGNESDK

>COMPARE089 Allergen Aed a 5; Sarcoplasmic Ca⁺ (EF-hand) binding protein, partial [Aedes aegypti]
KVDDSYNQLVSEEDNK

>COMPARE090 Allergen Aed a 5; Sarcoplasmic Ca⁺ (EF-hand) binding protein, partial [Aedes aegypti]
ALWDEISALADLDHDGK

>COMPARE091 Allergen Aed a 5; Sarcoplasmic Ca⁺ (EF-hand) binding protein, partial [Aedes aegypti]
VDDSYNQLVSEEDNKR

>COMPARE181 Allergen Aed a 6; Porin3, partial [Aedes aegypti]
VTANNFALGYSTGDFVLHTNVNDGR

>COMPARE092 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
DPSAAEGGEIIFGGSDSNK

>COMPARE093 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
QTFAEAINPGLVFVAAK

>COMPARE094 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
SFDLEGADYVLR

>COMPARE095 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
YTGDFTYLSVDRK

>COMPARE096 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
ECSFTNIACLMHNK

>COMPARE097 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
VVFDTGSSNLWVPSK

>COMPARE098 Allergen Aed a 11; Lysosomal aspartic protease, partial [Aedes aegypti]
YYTEFDMGNDR

>COMPARE154 Allergen Beta v 1; Che a 1/Ole e 1 homologue, partial [Beta vulgaris]
VQGMVYCDTCR

>COMPARE155 Allergen Beta v 1; Che a 1/Ole e 1 homologue, partial [Beta vulgaris]
AEGLYNMLIERD

>COMPARE156 Allergen Beta v 1; Che a 1/Ole e 1 homologue, partial [Beta vulgaris]
DCNEIPTEGWAKPSLKVSLTSNNGEASDIRSANALGFMR

>ABC88428.1 alcohol dehydrogenase [Curvularia lunata]
MSNIPQEQAQVIEKTGGPVEYKKIPVQKPGPDEVLVNIKFSGVCHTDLHAVNGDWPLPT
KLPLVGGHEGAGVVVARGELVNDVELGDHVGKWLNGSCLSCDYCQTADEPLCPKPLLSG
YTVDGTFQYCIKAAHVARIKPCDLAAIAPVLCAGITVYKGLKESGVKPGQFAAIVGA
GGGLGSLACQYAKAMGVRTIAIDAGEEKKKMCVNDLGAETFVDFSTSKNLVADVQKATPD
GLGPHVVILVAVNEKPFQQAAYVRPRGTVICIGLPAGAYLKAPVFETVIKMIRIQGSYV
GNRKDSSEAIEFFRRGLIKAPFKIVGLSELQMVDKMHQGAVVGRYVLDTSK

>COMPARE152 Alt a 1 homologue, partial [Stemphylium botryosum]
KISEFYGRKPEGTYYNLSLGFNIKATNGGTLDFTCQAQADKLEDHKWYSCGENSFMSFSFD
SDRS

>COMPARE151 Alt a 1 homologue, partial [Ulocladium botrytis]
KISEFYGRKPEGTYYNLSLGFNIKA

>COMPARE174 probable vicillin-like protein, partial [Fagopyrum esculentum]
GDYPLEXCRQKIEH

>COMPARE175 trypsin inhibitor [Fagopyrum esculentum]
SDKPQQLLEECRYLXRI

>COMPARE100 Allergen Gal d 9; enolase, partial [Gallus gallus]
SIQKIHAREI

>AAB32317.1 Allergen Cyn d Ib isoallergen {N-terminal} [Cynodon dactylon]
AIGDKPGKITATYXXKWLEAKATFYGSNPRGAA

>AAQ24545.1 Putative Blo t 7 allergen [Blomia tropicalis]
MKSTIVLLACFVGFIAFSDDAANQLVDQVVDALKTQKGFDSMHVKGKHTTELDQKIGLVTFK
GKLIKDATVTGLSRAAGSDVKIHSNIELIVGLIQSHLTLVDIGKQLQIMFSAGLAAEG
PSVKDFHIDEFEAVRIHVHGLGPLDPFIDIIGDAIIXLAXSQVREMISXMMRPIIESEVK

KFLQNTTPAPAF

>QE43417 Allergen Sola m 1; profilin [*Solanum melongena*]

MSWQTYVDDHLMCDLEGHHLASAILGFDGSVWAQSPAFPKEQHTMCDRCSRSGVNCYIM
RPLYLYQAKFKPEEITNIMKDFDEPGFLAPTGLFLGGTKYMWIQQGEPGAVIRGKKGSSGI
TIKKTGQALIFGIYEETVTPGQCNMVVEKIGDYLVDDQGY

>QCI56568.1 tropomyosin 1 [*Acheta domesticus*]

MDAIKKKMAMKLEKDNAMDKADTCEGQAKDANNKADKINEDVQELTKKLAQVENDLITT
KANLEQANKDLEDKEKALQAAESEMAALNRKVQLVEEDLERSEERAATAATKLQEASEAA
DEAQRMCVKLENRSQQDEERMDQLTNQLKEARLLAEDADGKSDEVSRKLAFFEVELEVAE
DRVKS GDSKIMELEEEELKVVGNLSL

>QCI56569.1 tropomyosin 2 [*Acheta domesticus*]

MDAIKKKMAMKLEKDNAMDRALLCEQQARDANLRAEKAEFEARGLQKKIQTIENTLDQT
QEQLMQVNAKLEEKDKALQTAEGEIAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILENRS LADEERMDALENQLKEARFLAEADKKYDEVARKLAMVEADLERAE
ERAEGESKIVELEEEELRVVGN

>QCI56570.1 tropomyosin [*Gromphadorhina portentosa*]

MDAIKKKMAMKLEKDNAMDRALLCEQQARDANIRA EKAEFEARSLQKKIQIENDLDQT
LEQLMQVNAKLEEKDKAFQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILES KGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDEL VHEKEKYKYICDDLDMTFTLIGN

>QCI56571.1 tropomyosin 1 [*Galleria mellonella*]

MDAIKKKMAMKLEKDNALDRAAMCEQQAKDANLRAEKAEFEARQLQKKIQTIENTLDQT
QESLMQVNGKLEEKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLSEASQAA
DESERARKVLENRS LADEERMDALENQLKEARFLAEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREEEYKNQIKTLTTRLKEAEARAE
FAERSVQKLQKEV

>QCI56572.1 tropomyosin 2 [*Galleria mellonella*]

MDAIKKKMAMKLEKDNAMDKADTCEQQARDANLRAEKVNEEVRELQKKLAQVEEDLTLN
KNKLDQANKDLEEREKQLAATEAEVASLNRKVQQIEEDLEKSEERSGTAQQKLLEAQQSA
DENNRMCVKLENRAQQDEERMDQLTNQLKEARLLAEDADGKSDEVSRKLAFFEVELEVAE
DRVKS GDAKISELEEEELKVVGN

>QCI56573.1 tropomyosin [*Litopenaeus setiferus*]

MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVN

>QCI56574.1 tropomyosin 1 [*Tenebrio molitor*]

AKLIAEEADKKYEEVARKLVLMEQDLERAEEAEQSESKIVELEEEELRVVGNLKSLEVS
EEKATLKEEEYSVTLKQVDQRLQEAERAEFAERSVQKLQKEVDRLEDDLLA

>QCI56575.1 tropomyosin 2 [*Tenebrio molitor*]

RKLAMVEADLERAEERAEAGESKIVELEEEELRVVGNLKSLEVSEEKANQREEEYKNQIK
NLTTRLKEAEARAEFAERSVQKLQKEVDRLEEEELVAEKERYKEIGDDLDTAFVELIL

>QCI56576.1 tropomyosin [*Zophobas atratus*]

EARFLAEADKKYDEVARKLAMVEADLERAEERAEAGESKIVELEEEELRVVGNLKSLEV
SEEKANQREEEYKNQIKNL TTRLKEAEARAEFAERSVQKLQKEVDRLEDELVAEKERYKE
IGDDLDTAFVELIL

>COMPARE209 Allergen Aed al 2; D7 like salivary odorant-binding protein, partial sequence [*Aedes albopictus*]
QSYFEFCENK

>COMPARE211 Allergen Aed al 2; D7 like salivary odorant-binding protein, partial sequence [*Aedes albopictus*]
KSYFEFCENK

>COMPARE214 Allergen Aed al 2; D7 like salivary odorant-binding protein, partial sequence [*Aedes albopictus*]
CMEDNLEDGPNR

>COMPARE216 Allergen Aed al 3; 30 kDa salivary protein, partial sequence [Aedes albopictus]
VVAILDKDTK

>COMPARE217 Allergen Aed al 3; 30 kDa salivary protein, partial sequence [Aedes albopictus]
VDNIQSEYLR

>COMPARE219 Allergen Aed al 3; 30 kDa salivary protein, partial sequence [Aedes albopictus]
SALNNDLQSEVR

>COMPARE221 Allergen Ano d 2; odorant-binding protein, partial sequence [Anopheles cracens]
NAVDYNELLK

>COMPARE223 Allergen Ano d 2; odorant-binding protein, partial sequence [Anopheles cracens]
ANTFYTCFLGTSSSPAFAK

>COMPARE224 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
FQQAVQALGTIDSADCLK

>COMPARE228 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
YGPVHAQFTDVQR

>COMPARE229 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
EITDKIYNSDSTVK

>COMPARE230 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
SNFKDGSEELCTLR

>COMPARE231 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
TGITTNNHLDCLFR

>COMPARE232 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
NGNINPDEIK

>COMPARE233 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
DKDAAVDNALNNCK

>COMPARE234 Allergen Cul q 2; salivary odorant-binding protein, partial sequence [Culex quinquefasciatus]
YFIENTDPYDVAK

>COMPARE235 Allergen Cul q 3; salivary odorant-binding protein 2, partial sequence [Culex quinquefasciatus]
GFIQVNNANKGVLEK

>COMPARE236 Allergen Cul q 3; salivary odorant-binding protein 2, partial sequence [Culex quinquefasciatus]
NGEMDESAILR

>COMPARE237 Allergen Pru p 9; PR1-like protein, partial sequence [Prunus persica]
MAFNTKLLLAICCVALVFTLVSANISK

>COMPARE238 Allergen Pru p 9; PR1-like protein, partial sequence [Prunus persica]
VGDCAMEHSMGR

>COMPARE239 Allergen Pru p 9; PR1-like protein, partial sequence [Prunus persica]
TTEVGCISKCNNGQNYVVCSYDPMYQPEDERP

>QFI57017.1 filamin C [Scylla paramamosain]
MPSGKSDVPVIEDNRDGTVSVRYSPREEGLHELHVKYNAEHVQGSPPFKFHVDSIASGYVT
AYGPGLVHGITGEPANFTISTKDAGAGSSTLRGGLSLAVEGSSKAEISCHDNKDGTVSVS
YLPTAPGEYKVSVKFAEKHIRGSPYSVKITGEGRKRNRQISVGSQSEVSLPGKVTDSDIKS
LNASIQAPSGLEPCFLKKLPLNGHLGISFTPREVGEHLVSVKRMGNHIANSPFKINVGEK
EVDGASKVKISGKCLSEGQTHKENQFTIDTRDAGYGGLSLSIEGPSKADIQCKDNEDGTL
TIGYTPTEPGYYIINLKFADNHVPGSPFTVKVTGEGTNRQTERIKRQREAVPLTEVGSQC
RLTFKLPGISPFDLGA TVTSPGGVTEAAEIGEVEDGLYGVNFVPKELGVHTVSVKYQEMH
IPGSPFQFTVGPLKDGGHRVHAGGPGLERGEQGMNEFNVWTREAGAGSLAISVEGPSK
AEIDFKDRKDGSCYVSVVAEPGEYRVGIKFNDKHIPDSPYKVYITPSLGEARKVELAQL
PEQGSMPNKAQSLLVCKNGAKGTLDCFKVAPSGAEEDCFTDLLDGDLYSVRFVPMKEMGIH
YVHIKFNGIHIPGSPFRLRIGKDEADPAAVSVSGKGLESCVSGQKTDFIVDTCNAGAGTL
AVTIDGPSKVSMDCTEVEEGYKVRYPVPGDYIYAVKYNA YHVVGSPWKVKCTGEAHAE
KGTIQESSVVVETVEKTKSGDKGHHGTIIPKFHSDANKVTSKGLGLKKAHINRQNNFTV
NASGAGNNILYGVYGPKSPCEEVYIKHVGHNNYQVSYKVKERGNHILMVMWGEEHIPGS
PFKLDMF

>QIJ32297.1 sarcoplasmic calcium binding protein [Crassostrea angulata]
MDYLNKKWKIWNLSLDVNHDGKISIEDVEESRNKFTNLHELVDKAKGVQVNFEDWWNKY

IFRTGAGKEISESEFVQQLTEAYKKDKVGFIKEMQACFDCIFDVIDTNKDRTIDEDEFVY
AFKAFGHENEALVRKAFSLYNKENKHVPLKDIVSEWVKFVTEEDTGKKDIIMEAFKEGF
>COMPARE240 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVFTYSEFTSVIPPARLYNAFVLDADNLIPKIAPQAVKSTEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGLDKDNFVYKYSVIEGDAISETIEKISYETKLVASDSGSIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFLKLIENYLLEHHDAYN
>COMPARE241 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVLTYTEYASIIPPARLYNALVLDADNLIPKIAPQAVKTVEILEGDGGVGTIKKVSFG
EGSEYNYVKHKVEGIDKDNFVYSYSLIEGDAISDKIEKISYEIKLVASGSGSIKNISHY
HTKGDFEIKEEHVKAGKERAHGLFLKLIENYLVANPDAYN
>COMPARE242 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVFTYSEFTSVVPPARLFNAFVLDADNLIPKIAPQAVKSTEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKDNFVYQYSVIEGDAISETIEKISYETKLVASGSGSVIKSISHY
HTKGDVEIKEEHVKAGKEKASHLFLKLIENYLLEHHDAYN
>COMPARE243 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVTKISQKFVTQVTPQRMFNALILDAHNICPKLMFSSIKSIEFLSGSGEVGTIKQINFT
EASPMKYAKHRIDALDKEALSCTYTFIESDATDHLLDKLEYITYDVKFEGYGRGGCICHL
TSTYKAKDDIQIKEEDIELGKDRAIGMYEVLEAYLMAHPRAYV
>COMPARE244 Allergen Mal d 1; pathogenesis related protein / PR-10 / Bet v 1-like protein [Malus domestica]
MGVFTYETEFASVCAPARLYNALVLDADNLIPKIAPQAVKTAEILEGDGGVGTIKKISFG
EGSEYSYVKHKVDGIDKDNFVYNYSLIEGDVISDKIEKISYETKLVASGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKERAHGLFLKLIENYLVANPDAI
>COMPARE245 Allergen Mal d 2; thaumatin like protein [Malus domestica]
MTMMKSQVASLLGLTLAILFFSGAHAAKITFTNCPNTVWPGTLTGDQKPQLSLTGFELA
SKASRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEIT
IAANGGQDYDVSLLVDGFNLPMSPVAPQGGTGECKPSSCPANVNKVCAPLQVKAADGSVI
SCKSACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSAYDDKNSTFTCSGGP
DYVITFCP
>COMPARE246 Allergen Mal d 4; profilin [Malus domestica]
MSWQQYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEPGA VIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNI VVE
RLGDYLIEQGL
>ALU66112.1 Allergen Der f 23; peritrophin like protein [Dermatophagoides farinae]
MKFNITIAFVSLAILVHSSYADIDHFDNDDQNSSTSRPDDDPTTMIDVQTTTVQPSSMPT
TSESESTVKPTTTTVKPSPTTVKPTTTTVKLT TTTTVKPSPTTVKPTTTTVKPSPTTTTTT
TTEQPEDEFECPTFRFGYFADPKDPCKFYICSNWEAIIHKSCPGNTRWNEKELTCT
>AVV30163.1 Allergen Ole e 15; cyclophilin [Olea europaea]
MANPKVFFDMTIGGQPVGRIVMELFADVVPRTSENFALCTGEKGVGKSGKPLHYKGSFAF
HRVIPNFMCGGDFTAGNGTGGESIYGSKFADENFVKKHTGPGILSMANAGPGTNGSQFF
ICTAKTEWLDGKHVVFQVVEGFYVVKAEIQVSGSGGKTAKPVVVADCGQLS
>COMPARE188 enolase, partial sequence [Penaeus monodon]
AGAAELGIPLYR
>COMPARE189 enolase, partial sequence [Penaeus monodon]
AAVPSGASTGVHEALEMR
>AAD32205.1 Allergen Pru ar 5; Hev b 5 like acidic protein [Prunus armeniaca]
MATVEVAPAATLQENEAKTVEVIKTEEKTPEEPVAAAPAAVPESEAATTEEPKETTPVEA
EAEAEAEAPAPEAETPVPAEVETKEVAECPKAAEAEAEPAATETEKTEKTEAEPEPKEV
TAAEPVAAVAEETKEETTESAETPAAPPAAEEKAAEATTDVPVEKTEE
>QDO73345.1 Allergen Pru du 8; Antimicrobial seed storage protein [Prunus dulcis]
MATMTKAELPLLVLFLSTLLLATSVPVRAQVTCEEGCYSISDQSKVGECLQMCSSHGQS
CEDRCMREARWPQQEQCLRMCRQQEQGHHLPCREQCIRSPDREMCERACQQQQGQGGGR
QCLQRCKMITRDPRERLKCVRTCTQGGQQGVFQGGQQQQQVEQQCRQHCQSERDPMRQQE
CQEYCVGQMMQEQEYEQCRSRCQWERPREQQEQCEECTEKIRQLEQCQEGCKIQGGYQ
PQQQECQRMCREQFEQGGQIRMVA

>AIO08849.1 Allergen Der f 32; secreted inorganic pyrophosphatase [Dermatophagoides farinae]
MSTTNYSVDHRGSFNSLDYRIYFKDNSNGKIISPWHDIPLFVDKSAKHYNMVEIPRWTN
EKMEIATAEPMSPKQDIKKGALRYVKNVFPKGYIWNYGAFPQTWENPNHIDQDTKTKG
DNDPIDVIEIGSRVAKRGDVVPVKILGTIALIDEGETDWKIIAIDTRDELASQMNNVDDV
EKLLPGLLRATVEWFKIYKIPDGKPAKFAFNGEAKDREFAEKIVEETHQYWQEMMENKS
GEHKLKDLKNVTLGNSFSINDEQAKQFLETRPSSDAVEPTPIADQVAIDKWHHVKLI
>AHF71021.1A Allergen Art ab 1; defensin-like protein, partial sequence [Artemisia absinthium]
AGSKLCEKTSKTWSGKCDNKKCDKKCIEWEKAQHGACHKREAGKESCFCYFDCSK
>AHF71022.1A Allergen Art an 1; defensin-like protein, partial sequence [Artemisia annua]
TWSGKCDNKKCDKKCIEWEKAQHGACHKREAGKESCFCYFDCSK
>AHF71023.1A Allergen Art c 1; defensin-like protein, partial sequence [Artemisia californica]
CDNKKCDKKCIEWEKAQHGACHKREAGKESCFCYFDCSK
>AHF71024.1A Allergen Art f 1; defensin-like protein, partial sequence [Artemisia frigida]
SGKCDNKKCDKKCIEWEK
>AHF71024.1B Allergen Art f 1; defensin-like protein, partial sequence [Artemisia frigida]
EAGKESCFCYFDCSK
>AHF71026.1A Allergen Art t 1; defensin-like protein, partial sequence [Artemisia tridentata]
CDNKKCDKKCIEWEK
>AHF71026.1B Allergen Art t 1; defensin-like protein, partial sequence [Artemisia tridentata]
EAGKESCFCYFDCSK
>KC700036.1A Allergen Art l 1; defensin-like protein, partial sequence [Artemisia ludoviciana]
SGKCDNKKCDKKCIEWEK
>KC700036.1B Allergen Art l 1; defensin-like protein, partial sequence [Artemisia ludoviciana]
EAGKESCFCYFDCSK
>ABG76185.1 Allergen Blo t 2; group 2 allergen [Blomia tropicalis]
MFKFICLALLVSYAAAGDVKFTDCAHGEVTSLDLSGCSGDHCTIHKGKSFTLKTFFIANQ
DSEKLEIKISATMNGIEVPVPGVDKDGCKHTTCPLKKGQKYELDYSLIPTILPNLKTVT
TASLVGDHGVVACGKVNTEVVD
>QDH76468.1 myosin light chain [Scylla paramamosain]
MAADLSARDVERAKFAFSIYDFEGKGTMDAFYVGDCLRALNLPPLAVIEKVGKTKKKE
KMLKVDDFLPIFAQVKKDKDAGSFEDFMEVLKLYDKTENGTMLYAELEHILLSLGERLEK
SELEPVLKDCCEDEDEDGFIPYEPFLKLTQLL
>COMPARE210 defensin-like protein, partial sequence [Buchanania lanzan]
MAGFCIFFLILFLAQEYGVGK
>COMPARE212 defensin-like protein, partial sequence [Buchanania lanzan]
ECLNLSKFK
>COMPARE213 defensin-like protein, partial sequence [Buchanania lanzan]
DIEHLLSGVCR
>COMPARE182 Allergen Tri a 19; omega-5 gliadin, partial sequence [Triticum aestivum]
HLNPSDQELQSPQQFLEK
>COMPARE183 Allergen Tri a 19; omega-5 gliadin, partial sequence [Triticum aestivum]
TNNSLATPTTIPPATATTIPPATR
>COMPARE184 Allergen Tri a 19; omega-5 gliadin, partial sequence [Triticum aestivum]
TNNSPATATTIPPAPQQR
>COMPARE185 Allergen Tri a 19; omega-5 gliadin, partial sequence [Triticum aestivum]
SSQQPQQPFLQPPQPF
>APP94292.1 Allergen Scy p 8; triose-phosphate isomerase [Scylla paramamosain]
MANQRKFFVGGNWKMNKDAAIDGIIISFMKGPLNADTEVVVGGCPQCYLMTREHMPANIG
VAAQNCYKTAKGAFTGEISPAKIKDCGCEWVILGHSERRNVFGEPDQLISEKVGHALEAG
LKVIPCIGEKLEERESNRTEEVFVFAQMKALVPNISDWSRVVIA YEPVWAIGTGKTATPEQ
AQDVHAKLRQWLRDNVSPQVAESTRIIYGGSVSAGNCKELAKTGDIDGFLVGGASLKPFD
VTIINARA
>QBP14757.1 elongation factor 2 [Dermatophagoides farinae]
MVNFTVDEIRVLMNKKRNIRNMSVIAHVDHGKSTLTDLSVSKAGIIAAKAGEMRFTDTR

KDEQERCITIKSTAISMYFEMREQDMVFITSADQKESDEKGFLLINLIDSPGHVDFSSSEVT
AALRVTDGALVVVDCVSGVCVQTETVLRQAI AERIKPVLFMNKMDLAMLTLQLEQEDLYQ
KFTRIVENVNVIISTYADENGPMGDIRVDPSKGSVGFSGHLHGWAFLSKQFAELYSEKFK
IDVDKLMNRLWGENFYNPTAKKWSKRFDGEYKRAFCEMFVLDPIFKVFDAIMNFKKEETAK
LLEKLNIVLKGEDKEKDGKNLLKVVMMRTWLPAGDSLLQMI AIHLPSPIA QKYRMELLYE
GPHDDEAAVAIKSCNPEGPLMMYISKMVPTSDKGRFYAFGRVVFSGIVASGQKVRIMGPNY
VHGKKEDLVEKAIQRTVLMGGRYVESIENVPCGNICGLVGVVDQFLVKTGTISTFKDAHNM
KVMKFSVSPVVRVAVEPKNPADLPKLVEGLKRLAKSDPMVQCIIEESGEHIVAGAGELHL
EICLKDLEEDHAQIPIKTS DPVVSRET VSEESEIMCLSKSPNKHNR LFMKACPLQDGIA
EDIDKGDINPRDDFKVRARFLADKYNWDATDARKIWA FGP EGTGPNLLVDVT KGVQYLNE
IKDSVVAGFQWATKESVLC EENMRGVRFNIHDVTLHADAIHRGGGQI IPTARRCLYACL
TAQPRLLPEPVYLVEIQCP EQAVGGIYGVLNRRRGHVFEESQVVGTPMFTVKAYLPVNESF
GFTADLRNNTGGQAF PQCVFDHWQILPGDPLDGKSRPYQIVMDTRKRKGLKDSLPELDNY
FDKL

>COMPARE215 Allergen Exo m 1; tropomyosin [Exopalaemon modestus]
MDAIKKKMQAMKLEKDNAMDRALTCEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDSV
QEALLKANAHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDEL DQTFSELSGY

>BAM22586.1A vitellogenin A, partial sequence [Gadus chalcogrammus]
KKILNPSVKRSSSSSSSSSSSAKLFSSSSSSSSSSSRSSSSSSSRSSRSSLNSKSSSSSS
SSSSSSSSRSARSRLSNTVVYP

>BAM22586.1B vitellogenin A, partial sequence [Gadus chalcogrammus]
QVYEAQCSYAKNTLTFNRRYKNEMPLSCNQVLAQDCSKELKFMVLLKKNIEQNWINV
KLADIDIDLYPENDNMIVKVNQMIPISNLPYQHPTGTIQIKSNGEGISVYAASHGLHEV
YFDRSSWKVKLADWMKGQTCGICGKADGEVRQEFRTPNGQLAKDAVSYAHSWVIPAENCQ
DASECRMREQSVKLEKQIMVHGQESNCHSVETVLRCLPGCIPVKTTPTVTVGFHCLPISAE
QQRSGDLSSVLEQSVDLRESVMAHLACNCANLCA

>ALM24136.1 Allergen Rhi o 2; cyclophilin A [Rhizopus oryzae]
MSNPKVFFDVSANSKPLGRIVMELRADVVPQTAENFRALCTGEKGFYKGC SFHRV IPEF
MLQGGDFTNHNGTGGKSIYGNKFRDENFTLKHTGPGDLSMANAGPNTNGSQFFITTIKCS
WLDGKHVVFGRVTEGMDVVQNIESLGSPNGTPRAKIIIDNCGQL

>CAA55009.1 Allergen Pru du 6; amandin, 11S globulin legumin-like protein [Prunus dulcis]
MAKAFVFSLLCLLVFNGLAARQSQLSPQNQCQLNQLQAREPDNRIQAEAGQIETWNFNQ
GDFQCAGVAASRITIQRNGLHLPYSNAPQLIYVQGRGVLGAVFSGCPETFEESQQSSQ
QGRQQEQEQERQQQQQGEQGRQQGQQEQEQEQERQGRQQGQQEQEQEQEQGRPQQ
QQQFRQLDRHQKTRRIREGDVVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNPR
KFYLAGNPENEFNQQGQSQRQQGEQGRPGHQHQPFRGRPQQEQQGNGNNVFSGFNTQLL
AQALNVNEETARNLQGQNDNRNQIIQVRGNLDFVQPPRGRQEREHEERQQEQQLQERQQQ
GEQLMANGLEETFCSLRLKENIGNPERADIFSPRAGRISTLNSHNLPILRFLRLSAERGF
FYRNGIYSPHWNVNAHSVVYVIRGNARVQVNVNENGDAILDQEVQQGQLFIVPQNHGVIQQ
AGNQGF EYFAFKTEENAFINTLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIA
LSSSQRRRAVV

>COMPARE218 glutelin type-A 1, partial sequence [Oryza sativa]
GLLLPHYTNGASLVYIIQGR

>ADG36438.1 Allergen Mus a 5; glucanase [Musa acuminata]
IGVCYGMLGNNLPPPSEVVSLYKSNDIARMRLYDPNQAALQALRNSNIQVLLDVPRSDVQ
SLASNPSAAGDWIRRNVAAYWPSVSFRYIAVGNELIPGSDLAQYILPAMRNIIYNALSSAG
LQNQIKVSTAVDTGVLGTSYPPSAGAFSSAAQAYLSPIVQFLASNGAPLLVNVYYPYFSYT
GNPGQISLPYALFTASGVVVQDGRFSYQNLFDAIVDAVFAALERVGGANVAVVVSESGWP
SAGGGAEASTSNAQTYNQNLIRHVGGGT PRRPGKEIEAYIFEMFNENQKAGGIEQNFGLF
YPNKQPVYQMSF

>AAX93750.1 Allergen Cro s 1; Ole e 1-like protein [Crocus sativus]

MGKCQAVFLLVGALCVLSLAGVANAAENHFVKVQGMVYCDTCRIQFMTRVSTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVHGDFQDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLTSNNGEASDIRSANALGFMRKEPLKECPEVLKELDLVDVVKAN
>COMPARE220 Allergen Tri a 28; alpha amylase inhibitor, partial sequence [Triticum aestivum]
EHGVSEGGAGTGAFPSR
>COMPARE222 alpha amylase inhibitor, partial sequence [Triticum aestivum]
STEWIHIDSELVSGR
>X76395 Allergen Ole e 1; major pollen allergen [Olea europaea var. sylvestris]
EDVPQPPVSQFHIGQVYCDTCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTR
AEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWVKPSLKFILNTVNGTTRTVNPL
GFFKKEALPKCAQVYNKLGMYPPNM
>COMPARE225 malate dehydrogenase, partial sequence [Cynodon dactylon]
TPASGQPERKVAILG
>COMPARE226 similar to pollen allergen, Phl p 11-like protein, partial sequence [Cynodon dactylon]
FTVTGEVYXDPXRA
>COMPARE227 Allergen Lac s 1; lipid transfer protein, partial sequence [Lactuca sativa]
AISXGQVTANLA
>BAA09632.1 polcalcin, partial sequence [Brassica napus]
MADAEHERIFKKFDTDGDGKISAAELEEALKKLGSVTPDDVTRMMAKIDTDGDGNISFQE
FTEFASANPGLMKDVAKVF
>BAA09633.1 polcalcin, partial sequence [Brassica napus]
ADATEKAEHDIRIFKKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYIS
YQEFSDFASANRGLMKDVAKIF
>COMPARE190 beta conglycinin (vicilin), partial sequence [Phoenix sylvestris]
EAVILPTSPHR
>COMPARE191 beta conglycinin (vicilin), partial sequence [Phoenix sylvestris]
GPELAAAFGVSEEQLER
>COMPARE192 beta conglycinin (vicilin), partial sequence [Phoenix sylvestris]
NRPQFLVGASSLLHSMR
>COMPARE193 beta conglycinin (vicilin), partial sequence [Phoenix sylvestris]
YFPFCQIASNGAPLEFFGFTTSAR
>COMPARE194 carbonic anhydrase, partial sequence [Phoenix sylvestris]
TYPFVEEALEK
>COMPARE195 carbonic anhydrase, partial sequence [Phoenix sylvestris]
YAGVGSIAIEYAVHHLK
>COMPARE196 carbonic anhydrase, partial sequence [Phoenix sylvestris]
VVFDFQPGEAFTVR
>COMPARE197 alpha 1, 4 glucan synthase, partial sequence [Phoenix sylvestris]
MAGASVKPTPLLKDELDIVIPTIR
>COMPARE198 alpha 1, 4 glucan synthase, partial sequence [Phoenix sylvestris]
YDDMWAGWCTK
>COMPARE199 alpha 1, 4 glucan synthase, partial sequence [Phoenix sylvestris]
YFGLMGDGPGR
>COMPARE200 alpha 1, 4 glucan synthase, partial sequence [Phoenix sylvestris]
VPEGFDYELYNR
>COMPARE201 glycerol kinase, partial sequence [Phoenix sylvestris]
GSLDKGTTSTR
>COMPARE202 isoflavone reductase, partial sequence [Phoenix sylvestris]
PSEFGNDVDR
>COMPARE203 isoflavone reductase, partial sequence [Phoenix sylvestris]
YTTVDEYLN
>COMPARE204 s-adenosyl methionine synthase, partial sequence [Phoenix sylvestris]
FVIGGPHGDAGLTGR
>COMPARE205 s-adenosyl methionine synthase, partial sequence [Phoenix sylvestris]

TLFHLNPSGR

>COMPARE206 s-adenosyl methionine synthase, partial sequence [Phoenix sylvestris]

YKNEGGAMVPLR

>COMPARE207 beta galactosidase, partial sequence [Phoenix sylvestris]

EIQNAGLYAILR

>COMPARE208 beta galactosidase, partial sequence [Phoenix sylvestris]

WLLLFEEAKTRR

>COMPARE186 gamma-35 secalin, prolamin, partial sequence [Secale cereale]

NMQVGPSGQVEWPQQQLPQPQQ

>COMPARE187 gamma-3 Hordein, partial sequence [Hordeum vulgare]

ITTTTTFNPSGLELERPQQLFPQW