>MANUAL2 Putative Blo t 1.02 Manual Entry [Blomia tropicalis]
MKFLLVAALCALVAIGSCKPTREEIKTFEQFKKVFGKVYRNAEEEARREHHFKEQLKWVE
EHNGIDGVEYAINEYSDMSEQEFSFHLSGGGLNFTYMKMEAAKEPLINTYGSLPQNFDWR
QKARLTRIRQQGACGSCWAFAAAGVAESLYSIQKQQSIGLSEQELVDCTYNRYDPSYQCN
GCGSGYSTEAFKYMIRTGLVEERNYPYNMRTQWCDPDVEGQRYHVSGYQQLRYHSSDEDV
MYTIQQHGPVVIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVGWGTVQGVDYWIIR
NSWGTGWGNGGYGYVERGHNSLGINNYVTYATL

>MANUAL3 Putative vitellogenin I Manual Entry [Gallus gallus]
EIASQIAQEDQSTCEVSKGDFKTFDRMSFTCSFNKSCNVVVAQDCTEHPKFIITTRKVDH
QSLSREVHINTSSANITICPAADSSLLVTCNKESVLSDSGVSEYEKDNIKIYKNGKTVIV
EAPIHGLKNVNFDGEILKVTVASWMRGKTCGVCGNNDREKHNELLMPNHKLAHSCSAFVH
SWVLLEETCSGGCKLQRRYVKLNRNPTIDGEESTCYSVDPVLKCMKDCTPIEKTSVKVGF
HCFPKATAVSLLEWQRSSDKKSASEDVVESVDADIDCTCTGDCS

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

>CAA32835.1 Allergen beta-lactoglobulin [Bos taurus]
MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
VCMENSAEPEQSLVCQCLVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>CAA68720.1 Putative precursor [Canis lupus familiaris]
MWFLALCLAMSLGWTGAEPHFQPRIIGGRECLKNSQPWQVAVYHNGEFACGGVLVNPEWV
LTAAHCANSNCEVWLGRHNLSESEDEGQLVQVRKSFIHPLYKTKVPRAVIRPGEDRSHDL
MLLHLEEPAKITKAVRVMDLPKKEPPLGSTCYVSGWGSTDPETIFHPGSLQCVDLKLLSN
NQCAKVYTQKVTKFMLCAGVLEGKKDTCKGDSGGPLICDGELVGITSWGATPCGKPQMPS
LYTRVMPHLMWIKDTMKANT

>CAA26038.1 Putative prepromelittin [Apis mellifera]
MKFLVNVALVFMVVYISYIYAAPEPEPAPEPEAEADAEADPEAGIGAVLKVLTTGLPALI
SWIKRKRQQG

>CAA35692.1 Allergen IgE-binding protein C-terminal fragment (148 AA), partial [Dermatophagoides pteronyssinus]
LFLENKDPKPLKKISIMKFIIAFFVATLAVMTVSGEDKKHDYQNEFDFLLMERIHEQIKK
GELALFYLQEQINHFEEKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRLMQRKDLDIFEQY
NLEMAKKSGDILERDLKKEEARVKKIEV

>CAA34486.1 Allergen Actinidain protease-like [Actinidia deliciosa]
MGLPKSFVSMSLLFFSTLLILSLAFNAKNLTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRFGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGECNLDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNHPKPYSSLINPP
AFSMSKDGPVGVDDGQRYSA

>CAA46782.1 Putative 2S storage protein [Brassica rapa]
MANKLFLVSATLALFFLLTNASVYRTGSEFDEHDATNPAGPFRIPKCRKEFQQAQHLKAC
QQWLHKQAMQSGSGPSWTLDGEFDFEEDMENTQGPQQEPPLLQQCCNELHQEEPLCVCPT
LKGASKAVKQQVRQQGQQQQMQQVISRIYQTSTHLPRVCNIRQVSICPFQKTMPGPSY

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

YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA35691.1 Putative Beta-conglycinin, alpha subunit-like [Glycine max]
MMRARFPLLLLGLVFLASVSVSFGIAYWEKENPKHNKCLQSCNSERDSYRNQACHARCNL
LKVEKEECEEGEIPRPRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEEHEQR
EEQEWPRKEEKRGEKGSEEEDEDEDEEQDERQFPFPRPPHQKEERNEEEDEDEEQQRESE
ESEDSELRRHKNKNPFLFGSNRFETLFKNQYGRIRVLQRFNQRSPQLQNLRDYRILEFNS
KPNTLLLPNHADADYLIVILNGTAILSLVNNDDRDSYRLQSGDALRVPSGTTYYVVNPDN
NENLRLITLAIPVNKPGRFESFFLSSTEAQQSYLQGFSRNILEASYDTKFEEINKVLFSR
EEGQQQGEQRLQESVIVEISKEQIRALSKRAKSSSRKTISSEDKPFNLRSRDPIYSNKLG
KFFEITPEKNPQLRDLDIFLSIVDMNEGALLLPHFNSKAIVILVINEGDANIELVGLKEQ
QQEQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNFFAIGINAENNQRNFLA
GSQDNVISQIPSQVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSI
LRAFY

>CAA26575.1 Putative Glycinin A2B1a subunit-like [Glycine max]
MAKLVLSLCFLLFSGCFALREQAQQNECQIQKLNALKPGNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLNRNALRRPSYTNGPQEIYIQQGNGIFGMIFPGCPSTYQEPQESQQRGRS
QRPQDRHQKVHRFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQQGGSQSQKGKQQEEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGGLRVTAPAMRKPQQEEDDDDEEEQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIGQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGSLRKNAMF
VPHYTLNANSIIYALNGRALVQVVNCNGERVFDGELQEGGVLIVPQNFAVAAKSQSDNFE
YVSFKTNDRPSIGNLAGANSLLNALPEEVIQHTFNLKSQQARQVKNNNPFSFLVPPQESQ
RRAVA

>CAA26723.1 Putative Glycinin-like [Glycine max]
MAKLVFSLCFLLFSGCCFAFSSREQPQQNECQIQKLNALKPGNRIESEGGLIETWNPNNK
PFQCAGVALSRCTLNRNALRRPSYTNGPQEIYIQQGKGIFGMIYPGCSSTFEEPQQPQQR
GQSSRPQDRHQKIYNSREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKGKHQQEEENEGGSILSGFTLEFLEHAFSVDKQIA
KNLQGENEGEDKGAIVTVKGGLSVIKPPTDEQQQRPQEEEEEEEDEKPQCKGKDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNIGQTSSPDIYNPQAGSVTTATSLDFPALSWLRLSAG
FGSLRKNAMFVPHYNLNANSIIYALNGRALIQVVNCNGERVFDGELQEGRVLIVPQNFVV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNPF
KFLVPPQESQKRAVA

>CAA33217.1 Putative glycinin subunit G3 [Glycine max]
MAKLVLSLCFLLFSGCCFAFSFREQPQQNECQIQRLNALKPDNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLNRNALRRPSYTNAPQEIYIQQGSGIFGMIFPGCPSTFEEPQQKGQS
SRPQDRHQKIYHFREGDLIAVPTGFAYWMYNNEDTPVVAVSLIDTNSFQNQLDQMPRRFY
LAGNQEQEFLQYQPQKQQGGTQSQKGKRQQEEENEGGSILSGFAPEFLEHAFVVDRQIVR
KLQGENEEEEKGAIVTVKGGLSVISPPTEEQQQRPEEEEKPDCDEKDKHCQSQSRNGIDE
TICTMRLRHNIGQTSSPDIFNPQAGSITTATSLDFPALSWLKLSAQFGSLRKNAMFVPHY
NLNANSIIYALNGRALVQVVNCNGERVFDGELQEGQVLIVPQNFAVAARSQSDNFEYVSF
KTNDRPSIGNLAGANSLLNALPEEVIQQTFNLRRQQARQVKNNNPFSFLVPPKESQRRVV
A

>CAA37044.1 Putative glycinin [Glycine max]
MGKPFTLSLSSLCLLLLSSACFAISSSKLNECQLNNLNALEPDHRVEFEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSYSPYPRMIIIAQGKGALQCKPGCPETFEEPQEQSNR
RGSRSQKQQLQDSHQKIRHFNEGDVLVIPPGVPYWTYNTGDEPVVAISLLDTSNFNNQLD
QTPRVFYLAGNPDIEYPETMQQQQQQKSHGGRKQGQHQQEEEEEGGSVLSGFSKHFLAQS
FNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDDEDEQIPSHPPR
RPSHGKREQDEDEDEDEDKPRPSRPSQGKREQDQDQDEDEDEDEDQPRKSREWRSKKTQP
RRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPALR
QFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQGKVRVVNCQGNAVFDGELRRGQLLV
VPQNFVVAEQAGEQGFEYIVFKTHHNAVTSYLKDVFRAIPSEVLAHSYNLRQSQVSELKY

EGNWGPLVNPESQQGSPRVKVA

>CAA42646.1 Allergen Pathogenesis-related protein [Glycine max]
MGVFTFEDEINSPVAPATLYKALVTDADNVIPKALDSFKSVENVEGNGGPGTIKKITFLE
DGETKFVLHKIESIDEANLGYSYSVVGGAALPDTAEKITFDSKLVAGPNGGSAGKLTVKY
ETKGDAEPNQDELKTGKAKADALFKAIEAYLLAHPDYN

>CAA45777.1 Putative trypsin inhibitor subtype A [Glycine max]
MKSTIFFALFLFCAFTTSYLPSAIADFVLDNEGNPLENGGTYYILSDITAFGGIRAAPTG
NERCPLTVVQSRNELDKGIGTIISSPYRIRFIAEGHPLSLKFDSFAVIMLCVGIPTEWSV
VEDLPEGPAVKIGENKDAMDGWFRLERVSDDEFNNYKLVFCPQQAEDDKCGDIGISIDHD
DGTRRLVVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>CAA45778.1 Putative trypsin inhibitor subtype B [Glycine max]
MKSTIFFALFLFCAFTTSYLPSAIADFVLDNEGNPLDSGGTYYILSDITAFGGIRAAPTG
NERCPLTVVQSRNELDKGIGTIISSPFRIRFIAEGNPLRLKFDSFAVIMLCVGIPTEWSV
VEDLPEGPAVKIGENKDAVDGWFRIERVSDDEFNNYKLVFCTQQAEDDKCGDIGISIDHD
DGTRRLVVSKNKPLVVQFQKVDKESLAKKNHGLSRSE

>CAA39880.1 Allergen rubber elongation factor [Hevea brasiliensis]
MAEDEDNQQGQGEGLKYLGFVQDAATYAVTTFSNVYLFAKDKSGPLQPGVDIIEGPVKNV
AVPLYNRFSYIPNGALKFVDSTVVASVTIIDRSLPPIVKDASIQVVSAIRAAPEAARSLA
SSLPGQTKILAKVFYGEN

>CAA41956.1 Allergen alpha-amylase inhibitor [Hordeum vulgare subsp. vulgare]
MASKSSITPLLLAAVLASVFAAAAATGQYCYAGMGLPSNPLEGCREYVAQQTCGVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHCRCRVRYFIGRRSHPDWRVLKDLPGCPKEPQRDFAK
VLVTPGQCNVLTVHNAPYCLGLDI

>CAA45085.1 Allergen monomeric alpha-amylase, partial [Hordeum vulgare subsp. vulgare]
PTSVAVDQGSMVSNSPGEWCWPGMGYPVYPFPRCRALVKSQCAGGQVVESIQKDCCRQIA
AIGDEWCICGALGSMRGSMYKELGVALADDKATVAEVFPGCRTEVMDRAVASLPAVCNQY
IPNTNGTDGVCYWLSYYQPPRQMSSR

>CAA46705.1 Allergen CMe [Hordeum vulgare subsp. vulgare]
MAFKYQLLLSAAVMLAILVATATSFGDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCCDELSAIPAYCRCEALRIIMQGVVTWQGAFEGAYFKDSPNCPRERQTSYAANL
VTPQECNLGTIHGSAYCPELQPGYGVVL

>CAA42832.1 Putative LTP 1 [Hordeum vulgare]
MARAQVLLMAAALVLMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECCNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNVPYTISPDIDCSRFTERR
SVKLVLSSSIHVEL

>CAA38097.1 Allergen 2S albumin precursor [Ricinus communis]
MAKLIPTIALVSVLLFIIANASFAYRTTITTIEIDESKGEREGSSSQQCRQEVQRKDLSS
CERYLRQSSSRRSPGEEVLRMPGDENQQQESQQLQQCCNQVKQVRDECQCEAIKYIAEDQ
IQQGQLHGEESERVAQRAGEIVSSCGVRCMRQTRTNPSQQGCRGQIQEQQNLRQCQEYIK
QQVSGQGPRRSDNQERSLRGCCDHLKQMQSQCRCEGLRQAIEQQQSQGQLQGQDVFEAFR
TAANLPSMCGVSPTECRF

>CAA31575.1 Allergen patatin B2 (AA 1 - 386) [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
LGPMYDGKYLLQVLQEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPPHHFVTHTSNGARYEFNLVDGAVATVGDPALLSLSVATRLAQEDP

AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALNGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>CAA27571.1 Allergen patatin [Solanum tuberosum]
MATTNSFTILIFMILATTSSTFATLGEMVTVLSIDGGGIKGIIPATILEFLEGQLQEVDN
NTDARLADYFDVIGGTSTGGLLTAMITTPNETNRPFAAAKDIVPFYFEHGPKIFQSSGSI
FGPKYDGKYLMQVLQEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPTFFPPHYFATNTSNGDKYEFNLVDGAVATVDDPALLSISVATKLAQVDP
KFASIKSLNYKQMLLLSLGTGTTSEFDKTYTAEETAKWGTARWMLVIQKMTSAASSYMTD
YYLSTAFQALDSQNNYLRVQENALTGTTTELDDASEANMQLLVQVGEDLLKKSVSKDNPE
TYEEALKRFAKLLSDRKKLRANKASY

>CAA27588.1 Allergen patatin [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCATLGEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
FGPRYDGKYLLQVLQEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAESPQLDAKM
YDICYSTAAAPIYFPPHHFVTHTSNGATYEFNLVDGAVATVGDPALLSLSVATRLAQDDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALTGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>CAA35238.1 Allergen Alpha/beta gliadin-like protein product [Triticum aestivum]
MKTFLILALLAIVATTARIAVRVPVPQLQPQNPSQQQPQEQVPLVQQQQFPGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQPFPQPQLPYPQPQLPYPQPQLPYPQPQPFRPQQPYPQSQPQ
YSQPQQPISQQQQQQQQQQQQKQQQQQQQQILQQILQQQLIPCRDVVLQQHSIAYGSSQV
LQQSTYQLVQQLCCQQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQQQQQQPLSQVSFQQ
PQQQYPSGQGSFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAP
VGIFGTN

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

>CAA42453.1 Putative CM 17 protein precursor [Triticum aestivum]
MASKSNYNLLFTALLVFIFAAVAAVGNEDCTPWTSTLITPLPSCRNYVEEQACRIEMPGP
PYLAKQECCEQLANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMNFVPILVTP
GYCNLTTVHNTPYCLGMEESQWS

>CAA35597.1 Allergen Alpha amylase inhibitor-like protein product [Triticum aestivum]
MACKSSCSLLLLAAVLLSVLAAASASGSCVPGVAFRTNLLPHCRDYVLQQTCGTFTPGSK
LPEWMTSASIYSPGKPYLAKLYCCQELAEISQQCRCEALRYFIALPVPSQPVDPRSGNVG
ESGLIDLPGCPREMQWDFVRLLVAPGQCNLATIHNVRYCPAVEQPLWI

>CAA43331.1 Allergen high molecular weight glutenin subunit 1Ax1 [Triticum aestivum]
MTKRLVLFAAVVVALVALTAAEGEASGQLQCERELQEHSLKACRQVVDQQLRDVSPECQP
VGGGPVARQYEQQVVVPPKGGSFYPGETTPPQQLQQSILWGIPALLRRYYLSVTSPQQVS
YYPGQASSQRPGQGQQPGQGQQEYYLTSPQQSGQWQQPGQGQAGYYPTSPQQSGQEQPGY
YPTSPWQPEQLQQPTQGQQRQQPGQGQQLRQGQQGQQSGQGQPRYYPTSSQQPGQLQQLA
QGQQGQQPERGQQGQQSGQGQQLGQGQQGQQPGQKQQSGQGQQGYYPISPQQLGQGQQSG
QGQLGYYPTSPQQSGQGQSGYYPTSAQQPGQLQQSTQEQQLGQEQQDQQSGQGRQGQQSG
QRQQDQQSGQGQQPGQRQPGYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQGQ
QGQQPEQGQQGQQPGQGEQGQQPGQGQQGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQ

QSGQLQQPAQGQQPGQEQQGQQPGQGQQGQQPGQGQQPGQGQPGYYPTSPQQSGQEQQLE
QWQQSGQGQPGHYPTSPLQPGQGQPGYYPTSPQQIGQGQQPGQLQQPTQGQQGQQPGQGQ
QGQQPGQGQQGQQPGQGQQPGQGQPGYYPTSLQQSGQGQQPGQWQQPGQGLPGYYPTSSL
QPEQGQQGYYPTSQQQPGQGPQPGQWQQSGQGQQGYYPTSPQQSGQGQQPGQWLQPGQWL
QSGYYLTSPQQLGQGQQPRQWLQPRQGQQGYYPTSPQQSGQGQQLGQGQQGYYPTSPQQS
GQGQQGYDSPYHVSAEHQAASLKVAKAQQLAAQLPAMCRLEGGDALLASQ

>CAA31396.1 Allergen high molecular weight glutenin subunit 10 [Triticum aestivum]
MAKRLVLFAAVVIALVALTTAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVVPPKGGSFYPGETTPLQQLQQGIFWGTS
SQTVQGYYPGVTSPRQGSYYPGQASPQQPGQGQQPGKWQEPGQGQQWYYPTSLQQPGQGQ
QIGKGQQGYYPTSLQQPGQGQQGYYPTSLQHTGQRQQPVQGQQPEQGQQPGQWQQGYYPT
SPQQLGQGQQPRQWQQSGQGQQGHYPTSLQQPGQGQQGHYLASQQQPGQGQQGHYPASQQ
QPGQGQQGHYPASQQQPGQGQQGHYPASQQEPGQGQQGQIPASQQQPGQGQQGHYPASLQ
QPGQGQQGHYPTSLQQLGQGQQTGQPGQKQQPGQGQQTGQGQQPEQEQQPGQGQQGYYPT
SLQQPGQGQQQGQGQQGYYPTSLQQPGQGQQGHYPASLQQPGQGQPGQRQQPGQGQHPEQ
GKQPGQGQQGYYPTSPQQPGQGQQLGQGQQGYYPTSPQQPGQGQQPGQGQQGHCPTSPQQ
SGQAQQPGQGQQIGQVQQPGQGQQGYYPTSVQQPGQGQQSGQGQQSGQGHQPGQGQQSGQ
EQQGYDSPYHVSAEQQAASPMVAKAQQPATQLPTVCRMEGGDALSASQ

>CAA25593.1 Allergen Alpha/beta gliadin-like protein product [Triticum aestivum]
MKTFLILVLLAIVATTATTAVRFPVPQLQPQNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QPYPQPQPFPSQLPYLQLQPFPQPQLPYSQPQPFRPQQPYPQPQPQYSQPQQPISQQQQQ
QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIAHGRSQVLQQSTYQLLQELCCQHL
WQIPEQSQCQAILKVVHAIILHQQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>CAA26383.1 Allergen Gliadin-like protein product [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVPVPQPQPQNPSQPQPQGQVPLVQQQQFPGQQQQFPPQ
QPYPQPQPFPSQQPYLQLQPFPQPQPFPPQLPYPQPPPFSPQQPYPQPQPQYPQPQQPIS
QQQAQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIAHARSQVLQQSTYQP
LQQLCCQQLWQIPEQSRCQAIHNVVHAIILHQQQRQQQPSSQVSLQQPQQQYPSGQGFFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTIAPFGIFGTN

>CAA26384.1 Allergen Gliadin-like protein product [Triticum aestivum]
MKTFLILVLLAIVATTATTAVRFPVPQLQPQNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QPYPQPQPFPSQLPYLQLQPFPQPQLPYSQPQQFRPQQPYPQPQPQYSQPQQPISQQQQQ
QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIAHGRSQVLQQSTYQLLQELCCQHL
WQIPEQSQCQAIHNVVHAIILHQQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>CAA26385.1 Allergen Gliadin-like protein product [Triticum aestivum]
MKTFLILALVATTATTAVRVPVPQLQPKNPSQQQPQEQVPLVQQQQFPGQQQQFPPQQPY
PQPQPFPSQQPYLQLQPFPQPQPFLPQLPYPQPQSFPPQQPYPQQRPMYLQPQQPISQQQ
AQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIAHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSRCQAIHNVVHAIIMHQQEQQQQLQQQQQQQLQQQQQQQQQQQQPSSQV
SFQQPQQQYPSSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>CAA31685.1 Putative LMW glutenin-like protein product [Triticum aestivum]
MKTFLVFALLAVAATSAIAQMETRCIPGLERPWQQQPLPPQQTFPQQPLFSQQQQQQLFP
QQPSFSQQQPPFWQQQPPFSQQQPILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSP
FPQQQQQHQQLVQQQIPVVQPSILQQLNPCKVFLQQQCSPVAMPQRLARSQMLQQSSCHV
MQQQCCQQLPQIPQQSRYEAIRAIIYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQQ
SQQQLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTSVPFGV

GTGVGAY

>CAA26847.1 Allergen HMW glutenin-like protein product [Triticum aestivum]
MAKRLVLFAAVVIALVALTTAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVVPPKGGSFYPGETTPLQQLQQGIFWGTS
SQTVQGYYPSVTSPRQGSYYPGQASPQQPGQGQQPGKWQEPGQGQQWYYPTSLQQPGQGQ
QIGKGKQGYYPTSLQQPGQGQQIGQGQQGYYPTSPQHTGQRQQPVQGQQIGQGQQPEQGQ
QPGQWQQGYYPTSPQQLGQGQQPGQWQQSGQGQQGHYPTSLQQPGQGQQGHYLASQQQPA
QGQQGHYPASQQQPGQGQQGHYPASQQQPGQGQQGHYPASQQEPGQGQQGQIPASQQQPG
QGQQGHYPASLQQPGQQGHYPTSLQQLGQGQQIGQPGQKQQPGQGQQTGQGQQPEQEQQP
GQGQQGYYPTSLQQPGQGQQQGQGQQGYYPTSLQQPGQGQQGHYPASLQQPGQGQGQPGQ
RQQPGQGQHPEQGQQPGQGQQGYYPTSPQQPGQGQQLGQGQQGYYPTSPQQPGQGQQPGQ
GQQGHCPMSPQQTGQAQQLGQGQQIGQVQQPGQGQQGYYPTSLQQPGQGQQSGQGQQSGQ
GHQPGQGQQSGQEKQGYDSPYHVSAEQQAASPMVAKAQQPATQLPTVCRMEGGDALSASQ

>CAA30570.1 Putative LMW glutenin-like protein product [Triticum aestivum]
MKTFLVFALLALAAASAVAQISQQQQAPPFSQQQQPPFSQQQQPPFSQQQQSPFSQQQQQ
PPFAQQQQPPFSQQPPISQQQQPPFSQQQQPQFSQQQQPPYSQQQQPPYSQQQQPPFSQQ
QQPPFSQQQQQPPFTQQQQQQQQQQPFTQQQQPPFSQQPPISQQQQPPFLQQQRPPFSRQ
QQIPVIHPSVLQQLNPCKVFLQQQCIPVAMQRCLARSQMLQQSICHVMQQQCCQQLRQIP
EQSRHESIRAIIYSIILQQQQQQQQQQQQQQGQSIIQYQQQQPQQLGQCVSQPLQQLQQQ
LGQQPQQQQLAHQIAQLEVMTSIALRTLPTMCNVNVPLYETTTSVPLGVGIGVGVY

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

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

>CAA39099.1 Allergen CM2 protein [Triticum turgidum subsp. durum]
MASKSSITHLLLAAVLVSVFAAAAATGPYCYPGMGLPSNPLEGCREYVAQQTCGVGIVGS
PVSTEPGNTPRDRCCKELYDASQHCRCEAVRYFIGRTSDPNSGVLKDLPGCPREPQRDFA
KVLVTPGHCNVMTVHNTPYCLGLDI

>CAA36063.1 Putative glutenin-like protein product [Triticum turgidum subsp. durum]
MKTFLVFALLAVVATSTIAQMETSCIPGLERPWQEQPLPPQHTLFPQQQPFPQQQQPPFS
QQQPSFLQQQPILPQLPFSQQQQPVLPQQSPFSQQQLVLPPQQQYQQVLQQQIPIVQPSV
LQQLNPCKVFLQQQCNPVAMPQRLARSQMLQQSSCHVMQQQCCQQLPQIPEQSRYDVIRA
ITYSIILQEQQQGFVQAQQQQPQQLGQGVSQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQ
VLQGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSTTSVPFSVGTGVGAYL

>CAA44473.1 Putative LMW glutenin [Triticum turgidum subsp. durum]
MKTFLVFALLAVVATSAIAQMDTSCIPGLERPWQQQPLPPQQTFPQQPPFSQQQQQQPFP
QQPSFSQQQPILPQGPPFPQQTQPVLPQQSPFSQQQQLILPPQQQQQLPQQQISIVQPSV
LQQLNPCKVFLQQQCSPVAIPQRLARSQMWQQSSCHVMQQQCCQQLSQIPEQSRYDAIRA
ITYSIILQEQQQGQSQQQQPQQSGQGVSQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQVQ
QGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSTTSVPFGV

>CAA43361.1 Allergen HMW glutenin subunit 1By9 [Triticum aestivum]
MAKRLVLFATVVITLVALTAAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRPVAVSQVVRQYEQTVVPPKGGSFYPGETTPLQQLQQVIFWGTS

SQTVQGYYPSVSSPQQGPYYPGQASPQQPGQGQQPGKWQELGQGQQGYYPTSLHQSGQGQ
QGYYPSSLQQPGQGQQIGQGQQGYYPTSLQQPGQGQQIGQGQQGYYPTSPQHPGQRQQPG
QGQQIGQGQQLGQGRQIGQGQQSGQGQQGYYPTSPQQLGQGQQPGQWQQSGQGQQGYYPT
SQQQPGQGQQGQYPASQQQPGQGQQGQYPASQQQPGQGQQGQYPASQQQPGQGQQGHYLA
SQQQPGQGQQRHYPASLQQPGQGQQGHYTASLQQPGQGQQGHYPASLQQVGQGQQIGQLG
QRQQPGQGQQTRQGQQLEQGQQPGQGQQTRQGQQLEQGQQPGQGQQGYYPTSPQQSGQGQ
QPGQSQQPGQGQQGYYSSSLQQPGQGLQGHYPASLQQPGQGHPGQRQQPGQGQQPEQGQQ
PGQGQQGYYPTSPQQPGQGKQLGQGQQGYYPTSPQQPGQGQQPGQGQQGHCPTSPQQTGQ
AQQPGQGQQIGQVQQPGQGQQGYYPISLQQSGQGQQSGQGQQSGQGHQLGQGQQSGQEQQ
GYDNPYHVNTEQQTASPKVAKVQQPATQLPIMCRMEGGDALSASQ

>CAA50325.1 Allergen major allergen [Corylus avellana]
MGVFNYEAETTSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEEIKGAKEMAEKLLRAVETYLLAHSAEYN

>CAA50326.1 Allergen major allergen [Corylus avellana]
MGVFNYEVETPSVISAARLFKSYVLDGDKLIPKVAPQAITSVENVGGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLGDKLEKVCSELKIVAAPGGGSTLKISSK
FHAKGDHEINAEEMKGAKEMAEKLLRAVETYLLAHSAEYN

>CAA50327.1 Allergen major allergen [Corylus avellana]
MGVFNYEVETPSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMAEKLLRAVETYLLAHSAEYN

>CAA50328.1 Allergen major allergen [Corylus avellana]
MGVFNYEVETPSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLGDKLEKVCSELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMAEKLLRAVETYLLAHSAEYN

>CAA23681.1 Allergen Ovalbumin-like protein [Gallus gallus]
MGSIAAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRF
DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNDVYSFSLASRLYAEERYPILPEYFQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTN

>CAA23711.1 Allergen Lysozyme-like protein product [Gallus gallus]
MRSLLILVLCFLPLAALGKVFGRCELAAAMKRHGLDNYRGYSLGNWVCVAKFESNFNTQA
TNRNTDGSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNCAKKIVSDG
NGMSAWVAWRNRCKGTDVQAWIRGCRL

>CAA43098.1 Allergen preproalbumin (serum albumin) [Gallus gallus]
MKWVTLISFIFLFSSATSRNLQRFARDAEHKSEIAHRYNDLKEETFKAVAMITFAQYLQR
CSYEGLSKLVKDVVDLAQKCVANEDAPECSKPLPSIILDEICQVEKLRDSYGAMADCCSK
ADPERNECFLSFKVSQPDFVQPYQRPASDVICQEYQDNRVSFLGHFIYSVARRHPFLYAP
AILSFAVDFEHALQSCCKESDVGACLDTKEIVMREKAKGVSVKQQYFCGILKQFGDRVFQ
ARQLIYLSQKYPKAPFSEVSKFVHDSIGVHKECCEGDMVECMDDMARMMSNLCSQQDVFS
GKIKDCCEKPIVERSQCIMEAEFDEKPADLPSLVEKYIEDKEVCKSFEAGHDAFMAEFVY
EYSRRHPEFSIQLIMRIAKGYESLLEKCCKTDNPAECYANAQEQLNQHIKETQDVVKTNC
DLLHDHGEADFLKSILIRYTKKMPQVPTDLLLETGKKMTTIGTKCCQLGEDRRMACSEGY
LSIVIHDTCRKQETTPINDNVSQCCSQLYANRRPCFTAMGVDTKYVPPPFNPDMFSFDEK
LCSAPAEEREVGQMKLLINLIKRKPQMTEEQIKTIADGFTAMVDKCCKQSDINTCFGEEG
ANLIVQSRATLGIGA

>P23110.1 Putative Albumin-8 precursor (Methionine-rich 2S protein)
(SFA8) [Helianthus annuus]
MARFSIVFAAAGVLLLVAMAPVSEASTTTIITTIIEENPYGRGRTESGCYQQMEEAEMLN
HCGMYLMKNLGERSQVSPRMREEDHKQLCCMQLKNLDEKCMCPAIMMMLNEPMWIRMRDQ

VMSMAHNLPIECNLMSQPCQM

>P04403.2 Allergen 2S sulfur-rich seed storage protein precursor (Allergen Ber e 1) [Bertholletia excelsa]
MAKISVAAAALLVLMALGHATAFRATVTTTVVEEENQEECREQMQRQQMLSHCRMYMRQQ
MEESPYQTMPRRGMEPHMSECCEQLEGMDESCRCEGLRMMMMRMQQEEMQPRGEQMRRMM
RLAENIPSRCNLSPMRCPMGGSIAGF

>P27759.1 Allergen Pollen allergen Amb a 1.1 precursor (Antigen E) (AgE) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLLQPVRSAEDLQEILPVNETRRLTTSGAYNIIDGCWRGKADW
AENRKALADCAQGFGKGTVGGKDGDIYTVTSELDDDVANPKEGTLRFGAAQNRPLWIIFE
RDMVIRLDKEMVVNSDKTIDGRGAKVEIINAGFTLNGVKNVIIHNINMHDVKVNPGGLIK
SNDGPAAPRAGSDGDAISISGSSQIWIDHCSLSKSVDGLVDAKLGTTRLTVSNSLFTQHQ
FVLLFGAGDENIEDRGMLATVAFNTFTDNVDQRMPRCRHGFFQVVNNNYDKWGSYAIGGS
ASPTILSQGNRFCAPDERSKKNVLGRHGEAAAESMKWNWRTNKDVLENGAIFVASGVDPV
LTPEQSAGMIPAEPGESALSLTSSAGVLSCQPGAPC

>P27760.1 Allergen Pollen allergen Amb a 1.2 precursor (Antigen E) (Antigen Amb a I) (AaBA protein) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLLQPVRSAEDVEEFLPSANETRRSLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGFAKGTYGGKHGDVYTVTSDKDDDVANPKEGTLRFAAAQNRPLWII
FKRNMVIHLNQELVVNSDKTIDGRGVKVNIVNAGLTLMNVKNIIIHNININHDIKVCPGGM
IKSNDGPPILRQQSDGDAINVAGSSQIWIDHCSLSKASDGLLDITLGSSHVTVSNCKFTQ
HQFVLLLGADDTHYQDKGMLATVAFNMFTDHVDQRMPRCRFGFFQVVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDIIKKNVLARTGTGNAESMSWNWRTDRDLLENGAIFLPSGSD
PVLTPEQKAGMIPAEPGEAVLRLTSSAGVLSCHQGAPC

>P27761.1 Allergen Pollen allergen Amb a 1.3 precursor (Antigen E) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNININHDVKVLPGGMI
KSNDGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVFSCHPGAPC

>P28744.1 Allergen Pollen allergen Amb a 1.4 precursor (Antigen E) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLLQPVRSAEDLQQILPSANETRSLTTCGTYNIIDGCWRGKAD
WAENRKALADCAQGFAKGTIGGKDGDIYTVTSELDDDVANPKEGTLRFGAAQNRPLWIIF
ARDMVIRLDRELAINNDKTIDGRGAKVEIINAGFAIYNVKNIIIHNIIMHDIVVNPGGLI
KSHDGPPVPRKGSDGDAIGISGGSQIWIDHCSLSKAVDGLIDAKHGSTHFTVSNCLFTQH
QYLLLFWDFDERGMLCTVAFNKFTDNVDQRMPNLRHGFVQVVNNNYERWGSYALGGSAGP
TILSQGNRFLASDIKKEVVGRYGESAMSESINWNWRSYMDVFENGAIFVPSGVDPVLTPE
QNAGMIPAEPGEAVLRLTSSAGVLSCQPGAPC

>P27762.1 Allergen Pollen allergen Amb a 2 precursor (Antigen K) (Antigen Amb a II) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGNCAQGFGKATHGGKWGDIYMVTSDQDDDVVNPKEGTLRFGATQDRPLWIIF
QRDMIIYLQQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLSKSFDGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPRCRFGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

>P22284.1 Putative Pollen allergen KBG 31 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MDKANGAYKTALKAASAVAPAEKFPVFQATFDKNLKEGLSGPDAVGFAKKLDAFIQTSYL
STKAAEPKEKFDLFVLSLTEVLRFMAGAVKAPPASKFPAKPAPKVAAYTPAAPAGAAPKA
TTDEQKLIEKINVGFKAAVAAAAGVPAASKYKTFVATFGAASNKAFAEALSTEPKGAAVA
SSKAVLTSKLDAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHGVKPAAEEV
KAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFIP
ALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAKPAAAVTGTATSAVGAA
TGAATAAAGGYKV

>P22285.1 Putative Pollen allergen KBG 41 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MAVHQYTVALFLAVALVAGPAASYAADVGYGAPATLATPATPAAPAAGYTPAAPAGAAPK
ATTDEQKLIEKINAGFKAAVAAAAGVPAVDKYKTFVATFGTASNKAFAEALSTEPKGAAA
ASSNAVLTSKLDAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAGEE
VKAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFI
PALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAKPAAAVTATATGAVGA
ATGAVGAATGAATAAAGGYKTGAATPTAGGYKV

>P22286.1 Putative Pollen allergen KBG 60 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MAVQKYTVALFLVALVVGPAASYAADLSYGAPATPAAPAAGYTPAAPAGAAPKATTDEQK
MIEKINVGFKAAVAAAGGVPAANKYKTFVATFGAASNKAFAEALSTEPKGAAVDSSKAAL
TSKLDAAYKLAYKSAEGATPEAKYDDYVATLSEALRIIAGTLEVHGVKPAAEEVKATPAG
ELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFIPALEAAV
KQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAKPAAAATGTATAAVGAATGAATA
AAGGYKV

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

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

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

>P02229.2 Putative Globin CTT-III precursor (Erythrocruorin III) [Chironomus thummi thummi]
MKFLILALCFAAASALSADQISTVQASFDKVKGDPVGILYAVFKADPSIMAKFTQFAGKD
LESIKGTAPFEIHANRIVGFFSKIIGELPNIEADVNTFVASHKPRGVTHDQLNNFRAGFV
SYMKAHTDFAGAEAAWGATLDTFFGMIFSKM

>P02230.1 Putative Globin CTT-IV precursor [Chironomus thummi thummi]
MKLLILALCFAAASALTADQISTVQSSFAGVKGDAVGILYAVFKADPSIQAKFTQFAGKD
LDSIKGSADFSAHANKIVGFFSKIIGDLPNIDGDVTTFVASHTPRGVTHDQLNNFRAGFV
SYMKAHTDFAGAEAAWGATLDAFFGMVFAKM

>P02227.1 Putative Globin CTT-VIII [Chironomus thummi thummi]
AVTPMSADQLALFKSSWNTVKHNEVDILYAVFKANPDIQAKFPQFAGKDLDSIKDSADFA

VHSGRIVGFFSEVIGLIGNPENRPALKTLIDGLASSHKARGIEKAQFEEFRASLVDYLSH
HLDWNDTMKSTWDLALNNMFFYILHALEVAQ

>P12548.1 Putative Globin CTT-VIIB-3 precursor [Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNESNASAVNSLVSKLGDDHKARGVSAAQ
FGEFRTALVAYLSNHVSWGDNVAAAWNKALDNTYAIVVPRL

>P12549.1 Putative Globin CTT-VIIB-6 precursor [Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNDSNAAAVNSLVSKLGDDHKARGVSAAQ
FGEFRTALVAYLQANVSWGDNVAAAWNKALDNTFAIVVPRL

>P12550.1 Putative Globin CTT-VIIB-7 precursor [Chironomus thummi thummi]
MKFFAVLALCVVGAIASPLSADEAAIVKSSWDQVKHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTAAFATHATRIVSFFTEVISLSGNQANLSAVYALVSKLGVDHKARGISAAQ
FGEFRTALVSYLQAHVSWGDNVAAAWNHALDNTYAVALKSLE

>P02231.1 Putative Globin CTT-IIIA [Chironomus thummi thummi]
VATPAMPSMTDAQVAAVKGDWEKIKGSGVEILYFFLNKFPGNFPMFKKLGNDLAAAKGTA
EFKDQADKIIAFLQGVIEKLGSDMGGAKALLNQLGTSHKAMGITKDQFDQFRQALTELLG
NLGFGGNIGAWNATVDLMFHVIFNALDGTPV

>P02228.1 Putative Globin CTT-X [Chironomus thummi thummi]
DPEWHTLDAHEVEQVQATWKAVSHDEVEILYTVFKAHPDIMAKFPKFAGKDLEAIKDTAD
FAVHASRIIGFFGEYVTLLGSSGNQAAIRTLLHDLGVFHKTRGITKAQFGEFRETMTAYL
KGHNKWNADISHSWDDAFDKAFSVIFEVLES

>P25974.1 Putative RecName: Full=Beta-conglycinin, beta chain; Flags: Precursor [Glycine max]
MMRVRFPLLVLLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNVRIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLLFVLSGRAILTLVNNDDRDSYNLHP
GDAQRIPAGTTYYLVNPHDHQNLKIIKLAIPVNKPGRYDDFFLSSTQAQQSYLQGFSHNI
LETSFHSEFEEINRVLFGEEEEQRQQEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLRSRNPIYSNNFGKFFEITPEKNPQLRDLDIFLSSVDINEGALLLPHFNSKAIVILVIN
EGDANIELVGIKEQQQKQKQEEEPLEVQRYRAELSEDDVFVIPAAYPFVVNATSNLNFLA
FGINAENNQRNFLAGEKDNVVRQIERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQK
EEGSKGRKGPFPSILGALY

>P24337.1 Putative RecName: Full=Hydrophobic seed protein; Short=HPS; AltName: Allergen=Gly m 1 [Glycine max]
ALITRPSCPDLSICLNILGGSLGTVDDCCALIGGLGDIEAIVCLCIQLRALGILNLNRNL
QLILNSCGRSYPSNATCPRT

>P16348.1 Allergen Aspartic protease inhibitor 11 (Cathepsin D inhibitor PDI) (Allergen Sola t 2) [Solanum tuberosum]
ESPLPKPVLDTNGKELNPNSSYRIISIGRGALGGDVYLGKSPNSDAPCPDGVFRYNSDVG
PSGTPVRFIPLSGGIFEDQLLNIQFNIATVKLCVSYTIWKVGNLNAYFRTMLLETGGTIG
QADSSYFKIVKLSNFGYNLLYCPITPPFLCPFCRDDNFCAKVGVVIQNGKRRLALVNENP
LDVLFQEV

>P01005.1 Allergen Ovomucoid precursor (Allergen Gal d 1) (Gal d I) [Gallus gallus]
MAMAGVFVLFSFVLCGFLPDAAFGAEVDCSRFPNATDKEGKDVLVCNKDLRPICGTDGVT
YTNDCLLCAYSIEFGTNISKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDKRHDGGCRKELAAVSVDCSEYPKPDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLTLSHFGKC

>P02754.3 Allergen Beta-lactoglobulin precursor (Beta-LG) (Allergen Bos d 5) [Bos taurus]
MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENGECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENSAEPEQSLACQCLVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>P14946.2 Allergen Pollen allergen Lol p 1 precursor (Lol p I) (Allergen R7) [Lolium perenne]
MASSSSVLLVVALFAVFLGSAHGIAKVPPGPNITAEYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

>P14947.1 Allergen Pollen allergen Lol p 2-A (Lol p II-A) [Lolium perenne]
AAPVEFTVEKGSDEKNLALSIKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGPFNFRFVSEKGMRNVFDDVVPADFKVGTTYKPE

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

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

>P01502.1 Putative Melittin [Apis dorsata]
GIGAILKVLSTGLPALISWIKRKRQE

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

>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]
MKLLLLLLCLGLTLVCGHAEEASSTRGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVF
MQHIDVLENSLGFKFRIKENGECRELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYV
MFHLINFKNGETFQLMVLYGRTKDLSSDIKEKFAKLCEAHGITRDNIIDLTKTDRCLQAR
G

>P12547.2 Putative Oryzin precursor (Alkaline proteinase) (ALP) (Aspergillus proteinase B) (Aspergillopeptidase B) [Aspergillus oryzae]
MQSIKRTLLLLGAILPAVLGAPVQETRRAAEKLPGKYIVTFKPGIDEAKIQEHTTWATNI
HQRSLERRGATGGDLPVGIERNYKINKFAAYAGSFDDATIEEIRKNEDVAYVEEDQIYYL
DGLTTQKSAPWGLGSISHKGQQSTDYIYDTSAGEGTYAYVVDSGVNVDHEEFEGRASKAY
NAAGGQHVDSIGHGTHVSGTIAGKTYGIAKKASILSVKVFQGESSSTSVILDGFNWAAND
IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQGVLSVVAAGNENSDAGQTSPASAPDA
ITVAAIQKSNNRASFSNFGKVVDVFAPGQDILSAWIGSSSATNTISGTSMATPHIVGLSL
YLAALENLDGPAAVTKRIKELATKDVVKDVKGSPNLLAYNGNA

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

CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIV
FKGLWEKAFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTM
SMLVLLPDEVSGLEQLESIINFEKLTEWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMA
MGITDVFSSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGSAEAGVDAASVSEEFR
ADHPFLFCIKHIATNAVLFFGRCVSP

>P22895.1 Putative P34 probable thiol protease precursor [Glycine max]
MGFLVLLLFSLLGLSSSSSISTHRSILDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNSNYIRDMNANRKSPHSHRLGLNKFADITPQEFSKKYLQAPKDVSQQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESEGSYNGWQYQSFEWVLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPISVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVDYWIAKNSWGFDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>P00784.1 Allergen Papain precursor (Papaya proteinase I) (PPI) (Allergen Car p 1) [Carica papaya]
MAMIPSISKLLFVAICLFVYMGLSFGDFSIVGYSQNDLTSTERLIQLFESWMLKHNKIYK
NIDEKIYRFEIFKDNLKYIDETNKKNNSYWLGLNVFADMSNDEFKEKYTGSIAGNYTTTE
LSYEEVLNDGDVNIPEYVDWRQKGAVTPVKNQGSCGSCWAFSAVVTIEGIIKIRTGNLNE
YSEQELLDCDRRSYGCNGGYPWSALQLVAQYGIHYRNTYPYEGVQRYCRSREKGPYAAKT
DGVRQVQPYNEGALLYSIANQPVSVVLEAAGKDFQLYRGGIFVGPCGNKVDHAVAAVGYG
PNYILIKNSWGTGWGENGYIRIKRGTGNSYGVCGLYTSSFYPVKN

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

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

>P05946.1 Putative RecName: Full=Sarcoplasmic calcium-binding protein 1; AltName: Full=Sarcoplasmic calcium-binding protein I; Short=SCP I [Pontastacus leptodactylus]
AYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLALRNTLIEGRGEFNEAAYANNQKIMSNL
WNEIAELADFNKDGEVTIDEFKKAVQNVCVGKAFATFPAAFKVFIANQFKTVDVNGDGLV
GVDEYRLDCISRSAFANIKEIDDAYNKLATDADKKAGGISLARYQELYAQFISNPDESAN
AVYLFGPLKEVQ

>P00780.1 Allergen RecName: Full=Subtilisin Carlsberg; Flags: Precursor [Bacillus licheniformis]
MMRKKSFWLGMLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNDPDVAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNGHGTHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSGSGTYSGIVSGIEWATTNGMDVINMSLGGPSGSTAMK
QAVDNAYARGVVVVAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTSTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINVEAAAQ

>P27357.1 Putative RecName: Full=Thaumatin-like protein PWIR2; Flags: Precursor [Triticum aestivum]
MATSPVLFLLLAVFAAGASAATFNIKNNCGFTIWPAGIPVGGGFALGSGQTSSINVPAGT
QAGRIWARTGCSFNGGSGSCQTGDCGGQLSCSLSGRPPATLAEYTIGGGSTQDFYDISVI
DGFNLAMDFSCSTGDALQCRDPSCPPPQAYQHPNDVATHACSGNNNYQITFCP

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

>AAA28301.1 Allergen antigen 5 precursor [Dolichovespula maculata]
MEIGGLVYLILIITIINLSFGETNNYCKIKCRKGIHTLCKFGTSMKPNCGRNVVKAYGLT
NDEKNEILKRHNDFRQNVAKGLETRGKPGPQPPAKNMNVLVWNDELAKIAQTWANQCDFN
HDDCRNTAKYQVGQNIAISSTTATQFDRPSKLIKQWEDEVTEFNYKVGLQNSNFRKVGHY
TQMVWGKTKEIGCGSIKYIEDNWYTHYLVCNYGPGGNDFNQPIYERK

>AAA28303.1 Allergen allergen 5 [Dolichovespula arenaria]
NNYCKICPKGTHTLCKYGTSMKPNCGGKIVKSYGVTNDEKNEIVKRHNEFRQKVAQGLET
RGNPGPQPPAKNMNLLVWNDELAKIAQTWANQCNFGHDQCRNTAKYPVGQNVAIASTTGN
SYQTMSYLIKMWEDEVKDYNPHKDLMHNNFSKVGHYTQMVWGKTKEIGCGSVKYIENKWH
THYLVCNYGPAGNYMNQPVYERK

>AAA29793.1 Allergen allergen 5 [Polistes annularis]
SSQGVDYCKIKCPSGIHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKKLIVSEHNRFRQK
VAQGLETRGNPGPQPAASDMNDLVWNDELAHIAQVWASQCQFLVHDKCRNTAKYPVGQNI
AYAGGSNLPDVVSLIKLWENEVKDFNYNTGITKQNFAKIGHYTQMVWGKTKEIGCGSLKY
MENNMQNHYLICNYGPAGNYLGQLPYTKK

>AAA30333.1 Allergen allergen 5 [Vespula vulgaris]
MEISGLVYLIIIVTIIDLPYGKANNYCKIKCLKGGVHTACKYGSLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKIARGLETRGNPGPQPPAKNMKNLVWNDELAYVAQVWANQCQYG
HDTCRDVAKYQVGQNVALTGSTAAKYDDPVKLVKMWEDEVKDYNPKKKFSGNDFLKTGHY
TQMVWANTKEVGCGSIKYIQEKWHKHYLVCNYGPSGNFMNEELYQTK

>AAA51411.1 Allergen albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRGVFRRDTHKSEIAHRFKDLGEEHFKGLVLIAFSQYLQQCPF
DEHVKLVNELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCEKQEP
ERNECFLSHKDDSPDLPKLKPDPNTLCDEFKADEKKFWGKYLYEIARRHPYFYAPELLYY
ANKYNGVFQECCQAEDKGACLLPKIETMREKVLASSARQRLRCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKE
CCDKPLLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLEECCAKDDPHACYSTVFDKLKHLVDEPQNLIKQNCDQFEK
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]
MKLLILTCLVAVALARPKHPIKHQGLPQEVLNENLLRFFVALFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYK
VPQLEIVPNSAEERLHSMKEGIDAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTISLW

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

MKVLILACLVALALARELEELNVPGEIVESLSSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPFPGPIPNSLPQNIPPLTQTPVVVPPFLQPEVLGVSKVKEAMAPK
HKEMPFPKYPVEPFTESQSLTLTDVENLHLPPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPIQAFLLYQQPVLGPVRGPFPIIV

>AAA30431.1 Allergen beta-casein [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPFPGPIHNSLPQNIPPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
HKEMPFPKYPVEPFTESQSLTLTDVENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPIQAFLLYQEPVLGPVRGPFPIIV

>AAA30433.1 Allergen kappa-casein precursor [Bos taurus]
MMKSFFLVVTILALTLPFLGAQEQNQEQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYG
LNYYQQKPVALINNQFLPYPYYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKKNQDKTEIPTINTIASGEPTSTPTIEAVESTVATLEASPEVTESPPEI
NTVQVTSTAV

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

>AAA30615.1 Allergen alpha-lactalbumin precursor protein [Bos taurus]
MMSFVSLLLVGILFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTTFHTSGYDTQAI
VQNNDSTEYGLFQINNKIWCKDDQNPHSSNICNISCDKFLDDDLTDDIMCVKKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

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

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

>AAA32629.1 Allergen actinidin [Actinidia deliciosa]
MGLPKSFVSMSLLFFSTLLILSLAFNAKNLTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGECNVELQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKQYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNYPEPYSSLINPP
AFSMSKDGPVGVEDGQRYSA

>AAA32669.1 Allergen antigen E [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVFSCRPGAPC

>AAA32708.1 Allergen Taka-amylase A (Taa-G1) precursor [Aspergillus
oryzae]
MMVAWWSLFLYGLQVAAPALAATPADWRSQSIYFLLTDRFARTDGSTTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQTTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCLIQNYEDQT
QVEDCWLGDNTVSLPDLDTTKDVVKNEWYDWVGSLVSNYSIDGLRIDTVKHVQKDFWPGY

NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPIYYPLLNAFKSTSGSMHDLYNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIPIIYAGQEQHYAGGN
DPANREATWASGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSLSGAGYTAGQQLTEVIGCTTVTVGSDGNVPVPMAGGL
PRVLYPTEKLAGSKICSSS

>AAA16522.1 Allergen profilin [Betula pendula]
MSWQTYVDEHLMCDIDGQASNSLASAIVGHDGSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>AAA32970.1 Putative amylase/protease inhibitor [Hordeum vulgare]
MARAQVLLMAAALVLMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECCNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNVPYTISPDIDCSRIY

>AAA63278.1 Allergen pollen allergen [Lolium perenne]
ALFAVFLGSAHGIAKVPPGPNITAEYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVDK
APFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNEEPIAPYHFDLS
GHAFGSMAKKGEEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKGSNPNYLAILVKYVD
GDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEGGTKSEVEDVIP
EGWKADTSYSAK

>AAA63279.1 Allergen pollen allergen [Lolium perenne]
MASSSSVLLVVALFAVFLGSAHGIAKVPPGPNITAEYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWTELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

>AAA33493.1 Putative phospholipid transfer protein precursor [Zea mays]
MARTQQLAVVATAVVALVLLAAATSEAAISCGQVASAIAPCISYARGQGSGPSAGCCSGV
RSLNNAARTTADRRAACNCLKNAAAGVSGLNAGNAASIPSKCGVSIPYTISTSTDCSRVN

>AAA33494.1 Putative phospholipid transfer protein, partial [Zea mays]
SCGQVASAIAPCISYARGQGSGPSAGCCSGVRSLNNAARTTADRRAACNCLKNAAAGVSG
LNAGNAASIPSKCGVSIPYTISTSTDCSRYSRRMHASAD

>AAA33819.1 Allergen patatin [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
IGPMYDGKYLLQVLQEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPPHYFITHTSNGDIYEFNLVDGGVATVGDPALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAQEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALTGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASY

>AAA33947.1 Putative beta-conglycinin-alpha subunit [Glycine max]
SKRAKSSSRKTISSEDKPFNLGSRDPIYSKKLGKFFEITPEKNPQLRDLDIFLSIVDMNE
GALLLPHFNSKAIVILVINEGDANIELVGLKEQQQEQQQEEQPLEVRKYRAELSEQDIFV
IPAGYPVVVNATSNLNFFAIGINAENNQRNFLAGSQDNVISQIPSQVQELAFPGSAQAVE
KLLKNQRESYFVDAQPNEKEEGNKGRKGPLSSILRAFY

>AAB01374.1 Putative beta-conglycinin storage protein [Glycine max]
MMRARFPLLLLGVVFLASVSVSFGIAYWEKQNPSHNKCLRSCNSEKDSYRNQACHARCNL
LKVEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPFPRPRQPHQEEEHEQK
EEHEWHRKEEKHGGKGSEEEQDEREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEED
QDEDEEQDKESQESEGSESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKRS
QQLQNLRDYRILEFNSKPNTLLLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA

LRVPAGTTFYVVNPDNDENLRMIAGTTFYVVNPDNDENLRMITLAIPVNKPGRFESFFLS
STQAQQSYLQGFSKNILEASYDTKFEEINKVLFGREEGQQQGEERLQESVIVEISKKQIR
ELSKHAKSSSRKTISSEDKPFNLGSRDPIYSNKLGKLFEITQRNPQLRDLDVFLSVVDMN
EGALFLPHFNSKAIVVLVINEGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIF
VIPAGYPVMVNATSDLNFFAFGINAENNQRNFLAGSKDNVISQIPSQVQELAFPRSAKDI
ENLIKSQSESYFVDAQPQQKEEGNKGRKGPLSSILRAFY

>AAA33964.1 Putative glycinin [Glycine max]
MGKPFFTLSLSSLCLLLLSSACFAITSSKFNECQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGSHLPSYLPYPQMIIVVQGKGAIGFAFPGCPETFEKPQQQS
SRRGSRSQQQLQDSHQKIRHFNEGDVLVIPLGVPYWTYNTGDEPVVAISPLDTSNFNNQL
DQNPRVFYLAGNPDIEHPETMQQQQQQKSHGGRKQGQHRQQEEEGGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDERKQIVTVEGGLSVISPKWQEQEDEDEDEDEEYGRTPSYPPRRP
SHGKHEDDEDEDEEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLYRNGIYSPDWNLNANSVTMTRG
KGRVRVVNCQGNAVFDGELRRGQLLVVPQNPAVAEQGGEQGLEYVVFKTHHNAVSSYIKD
VFRVIPSEVLSNSYNLGQSQVRQLKYQGNSGPLVNP

>AAA33965.1 Putative glycinin precursor [Glycine max]
QEDEDEDEDEEYEQTPSYPPRRPSHGKHEDDEDEDEEEHQPRPDHPPQRPSRPEQQEPRG
RGCQTRNGVEENICTMKLHENIARPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYLV
LYRNGIYSPHWNLNANSVIYVTRGKGRVRVVNCQGNPVFDGDLTRGQLLLVPQNFVVADQ
GGKQGLEYVVFKTQHNAVSSYIKDLFRAIPSEVLSNSYNLGQSQVRQLKYQGNSGPLLNP

>AAA33966.1 Putative glycinin A-1a-B-x subunit [Glycine max]
MAKLVFSLCFLLFSGCCFAFSSREQPQQNECQIQKLNALKPDNRIESEGGLIETWNPNNK
PFQCAGVALSRCTLNRNALRRPSYTNGPQEIYIQQGKGIFGMIYPGCPSTFEEPQQPQQR
GQSSRPQDRHQKIYNFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKGKHQQEEENEGGSILSGFTLEFLEHAFSVDKQIA
KNLQGENEGEDKGAIVTVKGGLSVIKPPTDEQQQRPQEEEEEEEDEKPQCKGKDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNIGQTSSPDIYNPQAGSVTTATSLDFPALSWLRLSAE
FGSLRKNAMFVPHYNLNANSIIYALNGRALIQVVNCNGERVFDGELQEGRVLIVPQNFVV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNPF
KFLVPPQESQKRAVA

>AAA34272.1 Allergen gamma gliadin precursor [Triticum aestivum]
MKTLLILTILAMATTIATANMQVDPSGQVQWPQQQPFPQPQQPFCQQPQRTIPQPHQTFH
HQPQQTFPQPQQTYPHQPQQQFPQTQQPQQPFPQPQQTFPQQPQLPFPQQPQQPFPQPQQ
PQQPFPQSQQPQQPFPQPQQQFPQPQQPQQSFPQQQQPAIQSFLQQQMNPCKNFLLQQCN
HVSLVSSLVSIILPRSDCQVMQQQCCQQLAQIPQQLQCAAIHSVAHSIIMQQEQQQGVPI
LRPLFQLAQGLGIIQPQQPAQLEGIRSLVLKTLPTMCNVYVPPDCSTINVPYANIDAGIG
GQ

>AAA34274.1 Allergen gamma-gliadin B precursor [Triticum aestivum]
MKTLLILTILAMAITIATANMQADPSGQVQWPQQQPFLQPHQPFSQQPQQIFPQPQQTFP
HQPQQQFPQPQQPQQQFLQPRQPFPQQPQQPYPQQPQQPFPQTQQPQQPFPQSKQPQQPF
PQPQQPQQSFPQQQPSLIQQSLQQQLNPCKNFLLQQCKPVSLVSSLWSIILPPSDCQVMR
QQCCQQLAQIPQQLQCAAIHSVVHSIIMQQEQQEQLQGVQILVPLSQQQQVGQGILVQGQ
GIIQPQQPAQLEVIRSLVLQTLPTMCNVYVPPYCSTIRAPFASIVASIGGQ

>AAA34275.1 Allergen alpha-type gliadin precursor protein [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVPVPQLQPQNPSQQQPQEQVPLVQQQQFPGQQQQFPPQ
QPYPQPQPFPSQQPYLQLQPFPQPQPFPPLPYPQPQSFPPQQPYPQQQPQYLQPQQPISQ
QQAQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIAHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSQCQAIHNVAHAIIMHQQQQQQQEQKQQLQQQQQQQQQLQQQQQQQQQQ
PSSQVSFQQPQQQYPSSQVSFQPSQLNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVY
IPPHCSTTIAPFGISGTN

>AAA34276.1 Allergen pre-alpha-/beta-gliadin A-II [Triticum aestivum]
MKTFPILALLAIVATTATTAVRVPVPQLQLQNPSQQQPQEQVPLVQEQQFQGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQPFPQPQLPYPQPQPFRPQQPYPQPQPQYSQPQQPISQQQQQ
QQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIAHGSSQVLQESTYQLVQQLCCQQLWQI
PEQSRCQAIHNVVHAIILHQQHHHHQQQQQQQQQQPLSQVSFQQPQQQYPSGQGFFQPSQ
QNPQAQGSFQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>AAA34279.1 Allergen alpha/beta-gliadin precursor [Triticum aestivum]
MKTFLILALVATTATTAVRVPVPQLQPKNPSQQQPQEQVPLVQQQQFPGQQQQFPPQQPY
PQPQPFPSQQPYLQLQPFPQPQPFLPQLPYPQPQSFPPQQPYPQQRPKYLQPQQPISQQQ
AQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIAHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSRCQAIHNVVHAIIMHQQEQQQQLQQQQQQQLQQQQQQQQQQQQPSSQV
SFQQPQQQYPSSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>AAA34280.1 Allergen alpha/beta-gliadin precursor [Triticum aestivum]
MKTFLILVLLAIVATTATTAVRFPVPQLQPQNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QPYPQPQPFPSQLPYLQLQPFPQPQLPYSQPQPFRPQQPYPQPQPQYSQPQQPISQQQQQ
QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIAHGRSQVLQQSTYQLLQELCCQHL
WQIPEQSQCQAIHNVVHAIILHQQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>AAA34281.1 Allergen pre-alpha-/beta-gliadin A-I [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVPVPQLQPQNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQPFLQPQLPYSQPQPFRPQQPYPQPQPQYSQPQQPISQQQQQ
QQQQQQQQQQQQQQIIQQILQQQLIPCMDVVLQQHNIVHGKSQVLQQSTYQLLQELCCQH
LWQIPEQSQCQAIHNVVHAIILHQQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQ
AQGSVQPQQLPQFEEIRNLARK

>AAA34282.1 Allergen pre-alpha-/beta-gliadin A-IV [Triticum aestivum]
MKTFLILALRAIVATTATIAVRVPVPQLQPQNPSQQQPQKQVPLVQQQQFPGQQQPFPPQ
QPYPQQQPFPSQQPYMQLQPFPQPQLPYPQPQLPYPQPQPFRPQQSYPQPQPQYSQPQQP
ISQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHSIAHGSSQVLQQSTYQLVQQFC
CQQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQQQQQQQQPLSQVCFQQSQQQYPSGQG
SFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAPVGIFGTN

>AAA34283.1 Allergen pre-alpha-/beta-gliadin A-III [Triticum aestivum]
MKTFLILALLAIVATTATSAVRVPVPQLQPQNPSQQQPQEQVPLMQQQQQFPGQQEQFPP
QQPYPHQQPFPSQQPYPQPQPFPPQLPYPQTQPFPPQQPYPQPQPQYPQPQQPISQQQAQ
QQQQQQQTLQQILQQQLIPCRDVVLQQHNIAHASSQVLQQSSYQQLQQLCCQQLFQIPEQ
SRCQAIHNVVHAIILHHHQQQQQQPSSQVSYQQPQEQYPSGQVSFQSSQQNPQAQGSVQP
QQLPQFQEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFGTN

>AAA34284.1 Allergen alpha-type gliadin [Triticum aestivum]
PQPQPQYSQPQQPISQQQQQQQQQQQQQQQQEQQILQQILQQQLIPCMDVVLQQHNIAHGR
SQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIHNVVHAIILHQQQQKQQQQPSSQFSFQQ
PLQQYPLGQGSFRPSQQNPQAQGSVQPQQLPQFEIRNLALQTLPAMCNVYIPPYCTIAPF
GIFGTN

>AAA34285.1 Putative pre-gamma-gliadin B-I [Triticum aestivum]
MKTFLVFALIAVVATSAIAQMETSCISGLERPWQQQPLPPQQSFSQQPPFSQQQQQPLPQ
QPSFSQQQPPFSQQQPILSQQPPFSQQQQPVLPQQSPFSQQQQLVLPPQQQQQQLVQQQI
PIVQPSVLQQLNPCKVFLQQQCSPVAMPQRLARSQMWQQSSCHVMQQQCCQQLQQIPEQS
RYEAIRAIIYSIILQEQQQGFVQPQQQQPQQSGQGVSQSQQQSQQQLGQCSFQQPQQQLG
QQPQQQQQQQVLQGTFLQPHQIAHLEAVTSIALRTLPTMCSVNVPLYSATTSVPFGVGTG
VGAY

>AAA34286.1 Putative gamma-gliadin [Triticum aestivum]
TITRTFPIPTISSNNNHHFRSNSNHHFHSNNNQFYRNNNSPGHNNPLNNNNSPNNNSPSN
HHNNSPNNNFQYHTHPSNHKNLPHTNNIQQQQPPFSQQQQPPFSQQQQPVLPQQSPFSQQ
QQLVLPPQQQQQQLVQQQIPIVQPSVLQQLNPCKVFLQQQCSPVAMPQRLARSQMWQQSS
CHVMQQQCCQQLQQIPEQSRYEAIRAIIYSIILQEQQQGFVQPQQQQPQQSGQGVSQSQQ
QSQQQLGQCSFQQPQQQLGQQPQQQQQQQVLQGTFLQPHQIAHLEAVTSIALRTLPTMCS
VNVPLYSATTSVPFGVGTGVGAY

>AAA34287.1 Putative gamma gliadin B-III [Triticum aestivum]
PQQPFPLQPQQSFLWQSQQPFLQQPQQPSPQPQQVVQIISPATPTTIPSAGKPTSAPFPQ
QQQQHQQLAQQQIPVVQPSILQQLNPCKVFLQQQCSPVAMPQRLARSQMLQQSSCHVMQQ
QCCQQLPQIPQQSRYQAIRAIIYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQQSQQ
QLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTSVPFGVGTG
VGAY

>AAA34288.1 Allergen gamma-gliadin [Triticum aestivum]
MKTLLILTILAMAITIGTANMQVDPSSQVQWPQQQPVPQPHQPFSQQPQQTFPQPQQTFP
HQPQQQFPQPQQPQQQFLQPQQPFPQQPQQPYPQQPQQPFPQTQQPQQLFPQSQQPQQQF
SQPQQQFPQPQQPQQSFPQQQPPFIQPSLQQQVNPCKNFLLQQCKPVSLVSSLWSMIWPQ
SDCQVMRQQCCQQLAQIPQQLQCAAIHTIIHSIIMQQEQQEQQQGMHILLPLYQQQQVGQ
GTLVQGQGIIQ

>AAA34289.1 Allergen gamma-gliadin [Triticum aestivum]
MKTLLILTILAMAITIGTANIQVDPSGQVQWLQQQLVPQLQQPLSQQPQQTFPQPQQTFP
HQPQQQVPQPQQPQQPFLQPQQPFPQQPQQPFPQTQQPQQPFPQQPQQPFPQTQQPQQPF
PQQPQQPFPQTQQPQQPFPQLQQPQQPFPQPQQQLPQPQQPQQSFPQQQRPFIQPSLQQQ
LNPCKNILLQQSKPASLVSSLWSIIWPQSDCQVMRQQCCQQLAQIPQQLQCAAIHSVVHS
IIMQQQQQQQQQQGIDIFLPLSQHEQVGQGSLVQGQGIIQPQQPAQLEAIRSLVLQTLPS
MCNVYVPPECSIMRAPFASIVAGIGGQ

>AAA34290.1 Allergen gliadin [Triticum urartu]
MKTFLILALLAIVATTATTAVRVPVPQPQPQNPSQPQPQRQVPLVQQQQFPGQQQQFPPQ
QPYPQPQPFPSQQPYLQLQPFPQPQPFPPQLPYPQPPPFSPQQPYPQPQPQYPQPQQPIS
QQQAQQQQQQQQQQQQQQQQQILPQILQQQLIPCRDVVLQQHNIAHARSQVLQQSTYQP
LQQLCCQQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQPSSQVSLQQPQQQYPSGQGFFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTTAPFGIFGTN

>AAB02788.1 Allergen HMW glutenin subunit Ax2 [Triticum aestivum]
MTKRLVLFAAVVVALVALTAAEGEASGQLQCERELQEHSLKACRQVVDQQLRDVSPECQP
VGGGPVARQYEQQVVVPPKGGSFYPGETTPPQQLQQSILWGIPALLRRYYLSVTSPQQVS
YYPGQASSQRPGQGQQEYYLTSPQQSGQWQQPGQGQSGYYPTSPQQSGQKQPGYYPTSPW
QPEQLQQPTQGQQRQQPGQGQQLRQGQQGQQSGQGQPRYYPTSSQQPGQLQQLAQGQQGQ
QPERGQQGQQSGQGQQLGQGQQGQQPGQKQQSGQGQQGYYPISPQQLGQGQQSGQGQLGY
YPTSPQQSGQGQSGYYPTSAQQPGQLQQSTQEQQLGQEQQDQQSGQGRQGQQSGQRQQDQ
QSGQGQQPGQRQPGYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQGQQGQQPE
QGQQGQQQRQGEQGQQPGQGQQGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQ
QPAQGQQPGQEQQGQQPGQGQQPGQGQPGYYPTSPQQSGQEQQLEQWQQSGQGQPGHYPT
SPLQPGQGQPGYYPTSPQQIGQGQQPGQLQQPTQGQQGQQPGQGQQGQQPGEGQQGQQPG
QGQQPGQGQPGYYPTSLQQSGQGQQPGQWQQPGQGQPGYYPTSSLQPEQGQQGYYPTSQQ
QPGQGPQPGQWQQSGQGQQGYYPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQG
QQPRQWLQPRQGQQGYYPTSPQQSGQGQQLGQGQQGYYPTSPQQSGQGQQGYDSPYHVSA
EHQAASLKVAKAQQLAAQLPAMCRLEGGDALLASQ

>AAA39768.1 Allergen major urinary protein II [Mus musculus domesticus]
MKMLLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFL
EQIHVLEKSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLINEKDGETFQLMGLYGREPDLSSDIKERFAKLCEEHGILRENIIDLSNANRCLQARE

>AAA41198.1 Putative alpha-2u globulin precursor(), partial [Rattus norvegicus]
LLLLCLGLTLVCGHAEEASSTSGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVFMQHI
DVLENSLGFKFRIKENGECRELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYVMFHL
INFKNGETFQLMVLYGRTKDLSSDIKEKFAKLCEAHGITRDNIIDLTKTDRCLQARG

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

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

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

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

>BAA01998.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVFSALLLIIVSVLAATTRMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVGTRSPGAVDEQLAQDCCRELAAVDDSWCRCSALNHMVGGIYRELGATDVGHPMAEV
FPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA01996.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVFSVLLLAVVSVLAATATMAEYHHQDQVVYTRARCQPGMGYPMYSLPRCRALVK
RQCRGSAAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHPMSEVFRG
CRRGDLERAAASLPAFCNVDIPNGGGGVCYWLARSGY

>BAA00154.1 Putative glycinin A2B1a subunit [Glycine max]
MAKLVLSLCFLLFSGCFALREQAQQNECQIQKLNALKPDNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLNRNALRRPSYTNGPQEIYIQQGNGIFGMIFPGCPSTYQEPQESQQRGRS
QRPQDRHQKVHRFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQQGGSQSQKGKQQEEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGGLRVTAPAMRKPQQEEDDDDEEEQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIGQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGSLRKNAMF
VPHYTLNANSIIYALNGRALVQVVNCNGERVFDGELQEGGVLIVPQNFAVAAKSQSDNFE
YVSFKTNDRPSIGNLAGANSLLNALPEEVIQHTFNLKSQQARQVKNNNPFSFLVPPQESQ
RRAVA

>P30575.1 Allergen Enolase 1 (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) [Candida albicans]
MSYATKIHARYVYDSRGNPTVEVDFTTDKGLFRSIVPSGASTGVHEALELRDGDKSKWLG
KGVLKAVANVNDIIAPALIKAKIDVVDQAKIDEFLLSLDGTPNKSKLGANAILGVSLAAA
NAAAAAQGIPLYKHIANISNAKKGKFVLPVPFQNVLNGGSHAGGALAFQEFMIAPTGVST
FSEALRIGSEVYHNLKSLTKKKYGQSAGNVGDEGGVAPDIKTPKEALDLIMDAIDKAGYK
GKVGIAMDVASSEFYKDGKYDLDFKNPESDPSKWLSGPQLADLYEQLISEYPIVSIEDPF
AEDDWDAWVHFFERVGDKIQIVGDDLTVTNPTRIKTAIEKKAANALLLKVNQIGTLTESI

QAANDSYAAGWGVMVSHRSGETEDTFIADLSVGLRSGQIKTGAPARSERLAKLNQILRIE
EELGSEAIYAGKDFQKASQL

>AAB22817.1 Putative peanut agglutinin precursor; prePNA [Arachis hypogaea]
MKPFCVFLTFFLLLAASSKKVDSAETVSFNFNSFSEGNPAINFQGDVTVLSNGNIQLTNL
NKVNSVGRVLYAMPVRIWSSATGNVASFLTSFSFEMKDIKDYDPADGIIFFIAPEDTQIP
AGSIGGGTLGVSDTKGAGHFVGVEFDTYSNSEYNDPPTDHVGIDVNSVDSVKTVPWNSVS
GAVVKVTVIYDSSTKTLSVAVTNDNGDITTIAQVVDLKAKLPERVKFGFSASGSLGGRQI
HLIRSWSFTSTLITTTRRSIDNNEKKIMNMASA

>AAB23464.1 Putative Kunitz trypsin inhibitor; KTi [Glycine max]
MKSTIFFLFLFCAFTTSYLPSAIADFVLDNEGNPLENGGTYYILSDITAFGGIRAAPTGN
ERCPLTVVQSRNELDKGIGTIISSPYRIRFIAEGHPLSLKFDSFAVIMLCVGIPTEWSVV
EDLPEGPAVKIGENKDAMDGWFRLERVSDDEFNNYKLVFCPQQAEDDKCGDIGISIDHDD
GTRRLVVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>AAB23482.1 Putative Kunitz trypsin inhibitor KTi1 [Glycine max]
MKSTIFFALFLVCAFTISYLPSATAQFVLDTDDDPLQNGGTYYMLPVMRGKGGGIEVDST
GKEICPLTVVQSPNELDKGIGLVFTSPLHALFIAERYPLSIKFGSFAVITLCAGMPTEWA
IVEREGLQAVKLAARDTVDGWFNIERVSREYNDYKLVFCPQQAEDNKCEDIGIQIDDDGI
RRLVLSKNKPLVVQFQKFRSSTA

>AAB23483.1 Putative Kunitz trypsin inhibitor KTi2 [Glycine max]
MKSTIFFALFLVCAFTISYLPSATAQFVLDTDDDPLQNGGTYYMLPVMRGKSGGIEGNST
GKEICPLTVVQSPNKHNKGIGLVFKSPLHALFIAERYPLSIKFDSFAVIPLCGVMPTKWA
IVEREGLQAVTLAARDTVDGWFNIERVSREYNDYYKLVFCPQEAEDNKCEDIGIQIDNDG
IRRLVLSKNKPLVVEFQKFRSSTA

>AAB24432.1 Allergen Aln g I [Alnus glutinosa]
MGVFNYEAETPSVIPAARLFKAFILDGDKLLPKVAPEAVSSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDRVNFKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGGSILKISNK
FHTKGDHEINAEQIKIEKEKAVGLLKAVESYLLAHSDAYN

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

>CAA47341.1 Allergen phospholipase a1 [Dolichovespula maculata]
RLIMFVGDPSSSNELDRFSVCPFSNDTVKMIFLTRENRKHDFYTLDTMNRHNEFKKSIIK
RPVVFITHGFTSSATEKNFVAMSEALMHTGDFLIIMVDWRMAACTDEYPGLKYMFYKAAV
GNTRLVGNFIAMIAKKLVEQYKVPMTNIRLVGHSLGAHISGFAGKRVQELKLGKFSEIIG
LDPAGPSFKKNDCSERICETDAHYVQILHTSSNLGTERTLGTVDFYINNGSNQPGCRYII
GETCSHTRAVKYFTECIRRECCLIGVPQSKNPQPVSKCTRNECVCVGLNAKKYPKRGSFY
VPVEAEAPYCNNNGKII

>AAA32702.1 Putative serine protease [Aspergillus niger]
MKGILGLSLLPLLTAASPVFVDSIHNEAAPILSATNAKEVPDSYIVVFKKHVTSELASAH
HSWVQDIHDSQSERTELKKRSLFGLGDEVYLGLKNTFDIAGSLIGYSGHFHEDVIEQVRR
HPDVDYIERDSEVHTMEGATEKNAPWGLARISHRDSLTFGNFNKYLYASEGGEGVDAYTI
DTGINVDHVDFEGRATWGKTIPTNDEDLDGNGHGTHCSGTMAGKKYGVAKKANLYAVKVL
RSSGSGTMSDVVSGVEYAVQAHIKKAKDAKNGKVKGFKGSVANMSLGGGKSKTLEDAVNA
GVEAGLHFAVAAGNDNADACNYSPAAAEKAITVGASTLADERAYFSNYGECTDIFAPGLN
ILSTWIGSNYATNIISGTSMASPHIAGLLAYFVSLQPSSDSAFAVEELTPAKLKKDIIAI

ATEGALTDIPSNTPNVSHAAVGIYKRNELTQKFSSLPGTVVVPRTTPTSLAAVATRSPLP
RTASRTVLRVSFTRPKSCSPRSLVPSTARSRMPSSHRSELVLSRRRSEDLVFF

>CAA29664.1 Allergen alpha-lactalbumin [Bos taurus]
MMSFVSLLLVGILFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTAFHTSGYDTQAI
VQNNDSTEYGLFQINNKIWCKDDQNPHSSNICNISCDKFLDDDLTDDIMCVKKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>CAA26953.1 Allergen major urinary protein [Mus musculus]
MKMLLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFL
EQIHVLENSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLINEKDGETFQLMGLYGREPDLMSDIKERFAQLCEEHGILRENIIDLSNANRCLQARE

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

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

>CAA49760.1 Putative major allergen [Myrmecia pilosula]
MKLSCLLLTLTIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ

>CAA51718.1 Putative profilin 1 [Zea mays]
MSWQTYVDEHLMCEIEGHHLTSAAIVGHDGATWAQSTAFPEFKPEEMAAIMKDFDEPGHL
APTGLILGGTKYMVIQGEPGAVIRGKKGSGGITVKKTGQSLIIGIYDEPMTPGQCNLVVE
RLGDYLLEQGM

>CAA51719.1 Putative profilin 2 [Zea mays]
MSDRAKMSWQAYVDEHLMCEIEGHHLAAAAIVGHDGAAWAQSTAFPEFKTEDMANIMKDF
DEPGHLAPTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVVGIYDEPMTPGQ
CNMVVERLGDYLLEQGM

>CAA51720.1 Putative profilin 3 [Zea mays]
MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNIIKDFDEPGFL
APIGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLVEQGL

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

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

>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]
YTTEGGKKVEAEDVIPEGWKADTSYE

>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 Putative superoxide dismutase (manganese) [Hevea brasiliensis]
MALRSLVTRKNLPSAFKAATGLGQLRGLQTFSLPDLPYDYGALEPAISGEIMQLHHQKHH
QTYITNYNKALEQLNDAIEKGDSAAVVKLQSAIKFNGGGHVNHSIFWKNLAPVREGGGEL
PHGSLGWAIDADFGSLEKLIQLMNAEGAALQGSGWVWLALDKELKKLVVETTANQDPLVT
KGPTLVPLLGIDVWEHAYYLQYKNVRPDYLKNIWKVMNWKYASEVYAKECPSS

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

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

>CAA52753.1 Allergen Phlp5 [Phleum pratense]
MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPATPAAPAEAAPAGKAT
TEEQKLIEKINAGFKAALAAAAGVQPADKYRTFVATFGAASNKAFAEGLSGEPKGAAESS
SKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAAVGAAT
GAATAATGGYKV

>CAA52194.1 Allergen preproalbumin [Equus caballus]
MKWVTFVSLLFLFSSAYSRGVLRRDTHKSEIAHRFNDLGEKHFKGLVLVAFSQYLQQCPF
EDHVKLVNEVTEFAKKCAADESAENCDKSLHTLFGDKLCTVATLRATYGELADCCEKQEP
ERNECFLTHKDDHPNLPKLKPEPDAQCAAFQEDPDKFLGKYLYEVARRHPYFYGPELLFH
AEEYKADFTECCPADDKLACLIPKLDALKERILLSSAKERLKCSSFQNFGERAVKAWSVA
RLSQKFPKADFAEVSKIVTDLTKVHKECCHGDLLECADDRADLAKYICEHQDSISGKLKA
CCDKPLLQKSHCIAEVKEDDLPSDLPALAADFAEDKEICKHYKDAKDVFLGTFLYEYSRR
HPDYSVSLLLRIAKTYEATLEKCCAEADPPACYRTVFDQFTPLVEEPKSLVKKNCDLFEE
VGEYDFQNALIVRYTKKAPQVSTPTLVEIGRTLGKVGSRCCKLPESERLPCSENHLALAL
NRLCVLHEKTPVSEKITKCCTDSLAERRPCFSALELDEGYVPKEFKAETFTFHADICTLP
EDEKQIKKQSALAELVKHKPKATKEQLKTVLGNFSAFVAKCCGREDKEACFAEEGPKLVA
SSQLALA

>CAA47366.1 Allergen Car b I, partial [Carpinus betulus]
GVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEKMKGAKEMAEKLLRAVESYLLAHTAEYN

>CAA47357.1 Allergen Car b I [Carpinus betulus]
GVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFAE
GSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN

>CAA47367.1 Allergen Car b I, partial [Carpinus betulus]
GVFNYEAETTSVIPAARLFKAFILDGNKLIPKVSPQAVSSVENVEGNGGPGTIKKITFSE
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-lI [Holcus lanatus]
MASSSRSVLLLVAALFAVFLGSAHGIAKVPPGPNITATYGDEWLDAKSTWYGKPTGAGPK
DNGGACGYKDVDKPPFSGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEPVTVHITDD
NEEPIAPYHFDLSGHAFGSMAKKGEEQKLRSAGELELKFRRVKCKYPDGTKPTFHVEKGS
NPNYLALLVKYIDGDGDVVAVDIKEKGKDKWIELKESWGAVWRVDTPDKLTGPFTVRYTT
EGGTKGEAEDVIPEGWKADTAYEAK

>CAA53529.1 Putative PHL PII, pollen allergen [Phleum pratense]
MSMASSSSSSLLAMAVLAALFAGAWCVPKVTFTVEKGSNEKHLAVLVKYEGDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEPLQGPFNFRFLTEKGMKNVFDDVVPEKYTIGATYAP
EE

>P00304.2 Allergen Pollen allergen Amb a 3 (Amb a III) (Allergen Ra3) [Ambrosia artemisiifolia (elatior)]
GKVYLVGGPELGGWKLQSDPRAYALWSARQQFKTTDVLWFNFTTGEDSVAEVWREEAYHA
CDIKDPIRLEPGGPDRFTLLTPGSHFICTKDQKFVACVPGR

>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]
AQVMLMAVALVLMLAAVPRAAVAIDCGHVDSLVRPCLSYVQGGPGPSGQCCDGVKNLHNQ
ARSQSDRQSACNCLKGIARGIHNLNEDNARSIPPKCGVNLPYTISLNIDCSRV

>S32101 Allergen PHLP5A protein - common timothy (fragment) [Phleum pratense]
EAPAGKATTEEQKLIEKINAGFKAALARRLQPADKYRTFVATFGPASNKAFAEGLSGEPK
GAAESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKP
AAEEVKVIPAAELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDEIKASTGGAYES
YKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPPPLPPPPQPP
PLAATGAATAATGGYKV

>CAA49555.1 Allergen CMa, component of tetrameric alpha-amylase inhibitor [Hordeum vulgare subsp. vulgare]
MASKSSITPLLLAAVLASVFAAATATGQYCYAGMGLPSNPLEGCREYVAQQTCGVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHCRCEAVRYFIGRRSHPDWSVLKDLPGCPKEPQRDFA
KVLVTPGQCNVLTVHNAPYCLGLDI

>CAA54421.1 Allergen Bet v 1b [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAEHMKAIKEKGEALLRAVESYLLAHSDAYN

>AAB28566.1 Allergen major allergen Cyn d I=34 kda polypeptide {N-terminal} [Cynodon dactylon=Bermuda grass, pollen, Peptide Partial, 25 aa] [Cynodon dactylon]
AMGDDPGPKITATYGSKWLDAKATF

>AAB28567.1 Allergen major allergen Cyn d I=29 kda polypeptide {N-terminal} [Cynodon dactylon=Bermuda grass, pollen, Peptide Partial, 38 aa] [Cynodon dactylon]
GAAPDDHGGAXGYKDVDKPPFDGMTAXGNEPIFKDDLS

>CAA54481.1 Allergen Bet v 1 c [Betula pendula]
MGVFNYESETTSVIPAARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDQEMKAEHMKAIKEKGEALLRAVESYLLAHSDAYN

>CAA54482.1 Allergen Bet v 1 d [Betula pendula]
MGVFNYEIETTSVIPAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

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

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

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

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

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

>CAA54686.1 Putative profilin [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEPGRVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVEQGM

>AAA33405.1 Allergen isoform 9 [Lolium perenne]
MAVQKHTVALFLAVALVAGPAASYAADAGYAPATPATPAAPATAATPATPATPATPAAVP
SGKATTEEQKLIEKINAGFKAAVAAAAVVPPADKYKTFVETFGTATNKAFVEGLASGYAD
QSKNQLTSKLDAALKLAYEAAQGATPEAKYDAYVATLTEALRVIAGTLEVHAVKPAAEEV
KVGAIPAAEVQLIDKVDAAYRTAATAANAAPANDKFTVFENTFNNAIKVSLGAAYDSYKF
IPTLVAAVKQAYAAKQATAPEVKYTVSETALKKAVTAMSEAEKEATPAAAATATPTPAAA
TATATPAAAYATATPAAATATATPAAATATPAAAGGYKV

>AAB29137.1 Allergen beta-casein A3 [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPFPGPIPNSLPQNIPPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
QKEMPFPKYPVEPFTESQSLTLTDVENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPIQAFLLYQEPVLGPVRGPFPIIV

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

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

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

>CAA55068.1 Putative minor allergen Cla h 7 [Davidiella tassiana]
MAPKIAIIFYSTWGHVQTLAEAEAKGIREAGGSVDLYRVPETLTQEVLTKMHAPPKDDSI
PEITDPFILEQYDRFPHGHPTRYGNFPAQWRTFWDRTGGQWQTGAFWGKYAGLFISTGTQ
GGGQESTALAAMSTLSHHGIIYVPLGYKTTFHLLGDNSEVRGAAVWGAGTFSGGDGSRQP
SQKELELTAQGKAFYEAVAKVNFQ

>CAA55070.1 Putative enolase; phosphopyruvate hydratase [Davidiella tassiana]
MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSVASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIAPALIKENLDVKDQAAVDAFLNKLDGTTNKTKIGANAILGVSMAVAK
AAAAEKRVPLYAHISDLSGTKKPFVLPVPFMNVVNGGSHAGGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLKSLTKKRYGQSAGNVGDEGGVAPDIQTAEEALDLITDAIEEAGYTGQ
IKIAMDVASSEFYKADEKKYDLDFKNPDSDKSKWITYEQLADQYNELAAKYPIVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKKAIETKACNALLLKVNQIGTITEAI
NAAKDSFAAGWGVMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKRLYAGDNFRTAINL

>CAA55390.1 Allergen Phl p I allergen [Phleum pratense]
MASSSSVLLVVVLFAVFLGSAYGIPKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCGSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAPYHFDLSGHAFGAMAKKGDEQKLRSAGELELQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKYVNGDGDVVAVDIKEKGKDKWIELKESWGAIWRIDTPDKLTGPFTVRYTTEG
GTKTEAEDVIPEGWKADTSYESK

>S38584 Allergen allergen Phl p Vb - common timothy [Phleum pratense]
MAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAARQ
RPAADKFKTFEAASPRHPRPLRQGAGLVPKLDAAYSVAYKAAVGATPEAKFDSFVASLTE
ALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKFTVF
EAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAAEVKYAVFEAALTKAITAMS
EVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>CAA55854.1 Putative allergen [Betula pendula]
MPCSTEAMEKAGHGHASTPRKRSLSNSSFRLRSESLNTLRLRRIFDLFDKNSDGIITVDE
LSRALNLLGLETDLSELESTVKSFTREGNIGLQFEDFISLHQSLNDSYFAYGGEDEDDNE
EDMRKSILSQEEADSFGGFKVFDEDGDGYISARELQMVLGKLGFSEGSEIDRVEKMIVSV
DSNRDGRVDFFEFKDMMRSVLVRSS

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

NIWIDHNSFSNSSDGLVDVTLSSTGVTISNNLFFNHHKVMLLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNNYDPWTIYAIGGSSNPTILSEGNSFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>BAA05543.1 Putative Cry j IB precursor [Cryptomeria japonica]
MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIFSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHHKVMSLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNNYDPWTIYAIGGSSNPTILSEGNSFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPHLT
QNAGVLTCSLSKRC

>BAA06172.1 Allergen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>CAA56343.1 Putative Kunitz trypsin inhibitor [Glycine max]
MKSTTSLALFLLCALTSSYQPSATADIVFDTEGNPIRNGGTYYVLPVIRGKGGGIEFAKT
ETETCPLTVVQSPFEGLQRGLPLIISSPFKILDITEGLILSLKFHLCTPLSLNSFSVDRY
SQGSARRTPCQTHWLQKHNRCWFRIQRASSESNYYKLVFCTSNDDSSCGDIVAPIDREGN
RPLIVTHDQNHPLLVQFQKVEAYESSTA

>AAA19973.1 Putative Der p 3 allergen [Dermatophagoides pteronyssinus]
MIIYNILIVLLLAINTLANPILPASPNATIVGGEKALAGECPYQISLQSSSHFCGGTILD
EYWILTAAHCVAGQTASKLSIRYNSLKHSLGGEKISVAKIFAHEKYDSYQIDNDIALIKL
KSPMKLNQKNAKAVGLPAKGSDVKVGDQVRVSGWGYLEEGSYSLPSELRRVDIAVVSRKE
CNELYSKANAEVTDNMICGGDVANGGKDSCQGDSGGPVVDVKNNQVVGIVSWGYGCARKG
YPGVYTRVGNFIDWIESKRSQ

>AAA68279.1 Allergen allergen [Dolichovespula maculata]
SERPKRVFNIYWNVPTFMCHQYGLYFDEVTNFNIKHNSKDDFQGDKISIFYDPGEFPALL
PLKEGNYKIRNGGVPQEGNITIHLQRFIENLDKTYPNRNFNGIGVIDFERWRPIFRQNWG
NMMIHKKFSIDLVRNEHPFWDKKMIELEASKRFEKYARLFMEETLKLAKKTRKQADWGYY
GYPYCFNMSPNNLVPDCDATAMLENDKMSWLFNNQNVLLPSVYIRHELTPDQRVGLVQGR
VKEAVRISNNLKHSPKVLSYWWYVYQDDTNTFLTETDVKKTFQEIAINGGDGIIIWGSSS
DVNSLSKCKRLREYLLTVLGPITVNVTETVN

>AAB60215.1 Allergen Der p 1 allergen preproenzyme [Dermatophagoides pteronyssinus]
MKIVLAIASLLALSAVYARPSSIKTFEEYKKAFNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSDLSLDEFKNRFLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTV
TPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEY
IQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNAQGVDYWIVRNSWDTNWGDNGYG
YFAANIDLMMIEEYPYVVIL

>AAA20065.1 Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTDEVDEIKLLPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSEI
CSQKCGKMRMNVTKNTI

>AAA20067.1 Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTDEVDEIKLLPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSKI
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]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYCCTNPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>BAA07020.1 Putative Cry j I precursor [Cryptomeria japonica]
MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIFSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHHKVMLLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNNYDPWTIYAIGGSSNPTILSEGNSFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>CAA54696.1 Allergen 1 Sc-3 [Betula pendula]
MGVFNYEDEATSVIAPARLFKSFVLDADNLIPKVAPENVSSAENIEGNGGPGTIKKITFP
EGSHFKYMKHRVDEIDHANFKYCYSIIEGGPLGDTLEKISYEIKIVAAPGGGSILKITSK
YHTKGDISLNEEEIKAGKEKGAGLFKAVENYLVAHPNAYN

>CAA54695.1 Allergen 1 Sc2 [Betula pendula]
GVFDYEGETTSVIPAARLFKAFILDGDNLIPKVAPQAVSCVENIEGNGGPGTIKKITFPE
GSPFKYVKERVDEVDRVNFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNKY
HTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHSDAYN

>CAA54694.1 Allergen 1-Sc1 [Betula pendula]
MGVFDYEGETTSVIPAARLFKAFILDGDNLIPKVAPQTVSCVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHVNFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNK
YHTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHSDAYN

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

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

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

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

KRGVYDNPDPAVIKERSMKMCTKIITDPANVENCKKVASRCVDRETQGPKSNRQKAVNII
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
TRGNPGPQPPAKSMNTLVWNDELAQIAQVWANQCNYGHDNCRNSAKYSVGQNIAEGSTTA
DNFGSVSNMVKMWEDEVKDYQYGSPKNKLNKVGHYTQMVWAKTKEIGCGSIKYIENGWHR
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
TRGNPGPQPPAKSMNTLVWNDELAQIAQVWANQCNYGHDNCRNSAKYSVGQNIAEGSTSA
DNFVNVSNMVKMWEDEVKDYQYGSPKNKLNKVGHYTQMVWAKTKEIGCGSEDYIEDGWHR
HYLVCNYGPAGNVGNEPIYERK

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

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

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

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

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

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

>P35787.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves vi 5) (Ves vi V) [Vespula vidua]
KVNYCKIKCLKGGVHTACKYGTSTKPNCGKMVVKAYGLTEAEKQEILKVHNDFRQKVAKG
LETRGNPGPQPPAKNMNNLVWNDELANIAQVWASQCNYGHDTCKDTEKYPVGQNIAKRST
TAALFDSPGKLVKMWENEVKDFNPNIEWSKNNLKKTGHYTQMVWAKTKEIGCGSVKYVKD
EWYTHYLVCNYGPSGNFRNEKLYEKK

>AAA28302.1 Allergen antigen 5 precursor [Dolichovespula maculata]
PIINLSFGEANNYCKIKCSRGIHTLCKFGTSMKPNCGSKLVKVHGVSNDEKNEIVNRHNQ
FRQKVAKGLETRGNPGPQPPAKNMNVLVWNDELAKIAQTWANQCSFGHDQCRNTEKYQVG
QNVAIASTTGNSYATMSKLIEMWENEVKDFNPKKGTMGDNNFSKVGHYTQMVWGKTKEIG
CGSVKYIENNWHTHYLVCNYGPAGNYMDQPIY

>AAC37218.1 Allergen apyrase [Aedes aegypti]
MAGRPGYSAVIFLYVVSVAVIARATDNMPPNKDVSKLFPLTLIHINDLHARFEETNMKSN
ACTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGTLWYNLLRWNVTADFIKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDKIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGPYPTIVESKNKRKIPIVQAKS
FGKYVGRLTLYFDDTGEVQHWEGYPVFIDHKVQQDPQILKDLVPWREKVEAIGSTVVGET
KIELDRDSCRDQECTLGVLYADGFADQYTNDTFRPFAIIQAGNFRNPIKVGKITNGDIIE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPIRSRVKKIE
VMDYTNPKSDELKPLDKQAEYYIVVPSYLADGKDGFSAMKRATARRTGPLDSDVFKNYVE
KIKKVDNLKLGRVIVCKGSKCT

>Q08169.1 Allergen Hyaluronoglucosaminidase precursor (Hyaluronidase) (Hya) (Allergen Api m 2) (Api m II) [Apis mellifera]
MSRPLVITEGMMIGVLLMLAPINALLLGFVQSTPDNNKTVREFNVYWNVPTFMCHKYGLR
FEEVSEKYGILQNWMDKFRGEEIAILYDPGMFPALLKDPNGNVVARNGGVPQLGNLTKHL
QVFRDHLINQIPDKSFPGVGVIDFESWRPIFRQNWASLQPYKKLSVEVVRREHPFWDDQR
VEQEAKRRFEKYGQLFMEETLKAAKRMRPAANWGYYAYPYCYNLTPNQPSAQCEATTMQE
NDKMSWLFESEDVLLPSVYLRWNLTSGERVGLVGGRVKEALRIARQMTTSRKKVLPYYWY
KYQDRRDTDLSRADLEATLRKITDLGADGFIIWGSSDDINTKAKCLQFREYLNNELGPAV
KRIALNNNANDRLTVDVSVDQV

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

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

>AAA60330.1 Putative tropomyosin [Metapenaeus ensis]
MKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQVQESLLKANNQ
LVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAADESERMRKVL
ENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAEERAETGESKI
VELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLQ
KEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>CAA57342.1 Putative alcohol dehydrogenase [Candida albicans]
MSEQIPKTQKAVVFDTNGGQLVYKDYPVPTPKPNELLIHVKYSGVCHTDLHARKGDWPLA
TKLPLVGGHEGAGVVVGMGENVKGWKIGDFAGIKWLNGSCMSCEFCQQGAEPNCGEADLS
GYTHDGSFEQYATADAVQAAKIPAGTDLANVAPILCAGVTVYKALKTADLAAGQWVAISG
AGGGLGSLAVQYARAMGLRVVAIDGGDEKGEFVKSLGAEAYVDFTKDKDIVEAVKKATDG

GPHGAINVSVSEKAIDQSVEYVRPLGKVVLVGLPAHAKVTAPVFDAVVKSIEIKGSYVGN
RKDTAEAIDFFSRGLIKCPIKIVGLSDLPEVFKLMEEGKILGRYVLDTSK

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

>S43243 Putative allergen-like protein Syr v I isoform 2 - Syringa vulgaris [Syringa vulgaris]
EDVPQPPVPQFHIQGQVYCDTCRARFITELSEFIPGAGIRLQCKDGEHGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLLSSSRKDCEEIPIEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEVLPKCPQVFNKLGMYPPNM

>S43244 Putative allergen-like protein Syr v I isoform 3 - Syringa vulgaris [Syringa vulgaris]
EDVPQPPVPQFHIQGQVYCDTCRARFITELSEFIPGASIRLQCKDGENGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLISSGRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPI
GFFKKEALPKCTQVYNKLGMYPPNM

>AAB30434.1 Allergen albumin [Canis familiaris]
LSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLTKVHKECCHGDL
LECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDELPGDLPSLAADFV
EDKEVCKNYQEAKDVFLGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCY
AKVLDEFKPLVDEPQNLVKTNCELFEKLGEYGFQNALLVRYTKKAPQVSTPTLVVEVSRK
LGKVGTKCCKKPESERMSCADDFLS

>AAB07620.1 Putative Asp FII [Aspergillus fumigatus]
SARDEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEAFEYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGSGATTTPTDSPSATIDVPSNCH
THEGGQLHCT

>CAA59370.1 Allergen major allergen [Parietaria judaica]
MRTVSARSSVALVVIVAAVLVWTSSASVAPAPAPGSEETCGTVVGALMPCLPFVQGKEKE
PSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLPP
IDVNMDCKTLGVLHYKGN

>P40918.1 Putative Heat shock 70 kDa protein (Allergen Cla h 4) (Cla h IV) [Davidiella tassiana]
MAPAIGIDLGTTYSCVGIYRDDRIEIIANDQGNRTTPSFVAFTDTERLIGDSAKNQVAIN
PHNTVFDAKRLIGRKFQDAEVQADMKHFPFKVIEKAGKPVTQVEFKGETKDFTPEEISSM
ILTKMRETAESYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAAAIA
YGLDKKQEGEKNVLIFDLGGGTFDVSFLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFS
NEFKRKHKKDLSDNARALRRLRTACERAKRTLSSSAQTSIEIDSLFEGIDFFTSNTRARF
EEVGQDLFRGNMEPGERTLRDDKIDKSSVHEIVLGGGSTRIPKVQKLVSDFFNGKEPCKS
INPDEAVAYGAAVQAAILSGDTSSKSTKEILLLDVAPLSLGIETAGGVMTALIKRNTTIP
TKKSETFSTFSDNQPGVLIQVFEGERARTKDINLMGKFELSGIRPAPRGVPQIEVTFDLD
ANGIMNVSALEKGTGKTNKIVITNDKGRLSKEEIERMLADAEKYKEEDEAEAGRIQAKNG
LESYAYSLKNTVSDPKVEEKLSAEDKETLTGAIDKTVAWIDENQTATKEEYEAEQKQLES
VANPVMMKIYGAEGGAPGGMPGQGAGAPPPGAGDDGPTVEEVD

>P16311.2 Allergen Major mite fecal allergen Der f 1 precursor (Der f I) [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT

VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQRCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGDDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVVIM

>CAA26478.1 Putative Glycinin-like protein product [Glycine max]
MGKPFTLSLSSLCLLLLSSACFAISSSKLNECQLNNLNALEPDHRVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHSPSYSPYPRMIIIAQGKGALGVAIPGCPETFEEPQEQSN
RRGSRSQKQQLQDSHQKIRHFNEGDVLVIPPSVPYWTYNTGDEPVVAISLLDTSNFNNQL
DQTPRVFYLAGNPDIEYPETMQQQQQQKSHGGRKQGQHQQEEEEEGGSVLSGFSKHFLAQ
SFNTNEDIAEKLESPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDKPRPSRPSQGKRNKTGQDEDEDEDEDQPRKSREWRSKKTQP
RRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPALR
QFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQGKVRVVNCQGNAVFDGELRRGQLLV
VPQNFVVAEQAGEQGFEYIVFKTHHNAVTSYLKDVFRAIPSEVLAHSYNLRQSQVSELKY
EGNWGPLVNPESQQGSPRVKVA

>CAA27052.1 Allergen glutenin [Triticum aestivum]
MAKRLVLFVAVVVALVALTVAEGEASEQLQCERELQELQERELKACQQVMDQQLRDISPE
CHPVVVSPVAGQYEQQIVVPKGGSFYPGETTPPQQLQQRIFWGIPALLKRYYPSVTSPQQ
VSYYPGQASPQRPGQGQQPGQGQQSGQGQQGYYPTSPQQPGQWQQPEQGQPGYYPTSPQQ
PGQLQQPAQGQQPGQGQQGRQPGQGQPGYYPTSSQLQPGQLQQPAQGQQGQQPGQGQQGQ
QPGQGQQPGQGQQGQQPGQGQQPGQGQQGQQLGQGQQGYYPTSLQQSGQGQPGYYPTSLQ
QLGQGQSGYYPTSPQQPGQGQQPGQLQQPAQGQQPEQGQQGQQPGQGQQGQQPGQGQQPG
QGQPGYYPTSPQQSGQGQPGYYPTSSQQPTQSQQPGQGQQGQQVGQGQQAQQPGQGQQPG
QGQPGYYPTSPLQSGQGQPGYYLTSPQQSGQGQQPGQLQQSAQGQKGQQPGQGQQPGQGQ
QGQQPGQGQQGQQPGQGQPGYYPTSPQQSGQGQQPGQWQQPGQGQPGYYPTSPLQPGQGQ
PGYDPTSPQQPGQGQQPGQLQQPAQGQQGQQLAQGQQGQQPAQVQQGQQPAQGQQGQQLG
QGQQGQQPGQGQQPAQGQQGQQPGQGQQGQQPGQGQQPGQGQPWYYPTSPQESGQGQQPG
QWQQPGQWQQPGQGQPGYYLTSPLQLGQGQQGYYPTSLQQPGQGQQPGQWQQSGQGQHGY
YPTSPQLSGQGQRPGQWLQPGQGQQGYYPTSPQQSGQGQQLGQWLQPGQGQQGYYPTSLQ
QTGQGQQSGQGQQGYYSSYHVSVEHQAASLKVAKAQQLAAQLPAMCRLEGGDALSASQ

>2008179A Allergen major allergen Par j I [Parietaria judaica]
MVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPPIDVNMDCKTVGVVPRQPQLPVSLRHGPVTGPSRSRPPTKHGW
RDPRLEFRPPHRKKPNPAFSTLG

>CAA58646.1 Allergen Mal d 1 [Malus domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKVGKEKAHGLFKLIESYLKDHPDAYN

>CAA26040.1 Allergen ovotransferrin [Gallus gallus]
MKLILCTVLSLGIAAVCFAAPPKSVIRWCTISSPEEKKCNNLRDLTQQERISLTCVQKAT
YLDCIKAIANNEADAISLDGGQVFEAGLAPYKLKPIAAEIYEHTEGSTTSYYAVAVVKKG
TEFTVNDLQGKNSCHTGLGRSAGWNIPIGTLLHWGAIEWEGIESGSVEQAVAKFFSASCV
PGATIEQKLCRQCKGDPKTKCARNAPYSGYSGAFHCLKDGKGDVAFVKHTTVNENAPDLN
DEYELLCLDGSRQPVDNYKTCNWARVAAHAVVARDDNKVEDIWSFLSKAQSDFGVDTKSD
FHLFGPPGKKDPVLKDFLFKDSAIMLKRVPSLMDSQLYLGFEYYSAIQSMRKDQLTPSPR
ENRIQWCAVGKDEKSKCDRWSVVSNGDVECTVVDETKDCIIKIMKGEADAVALDGGLVYT
AGVCGLVPVMAERYDDESQCSKTDERPASYFAVAVARKDSNVNWNNLKGKKSCHTAVGRT
AGWVIPMGLIHNRTGTCNFDEYFSEGCAPGSPPNSRLCQLCQGSGGIPPEKCVASSHEKY
FGYTGALRCLVEKGDVAFIQHSTVEENTGGKNKADWAKNLQMDDFELLCTDGRRANVMDY
RECNLAEVPTHAVVVRPEKANKIRDLLERQEKRFGVNGSEKSKFMMFESQNKDLLFKDLT
KCLFKVREGTTYKEFLGDKFYTVISNLKTCNPSDILQMCSFLEGK

>CAA60533.1 Putative A5A4B3 subunit [Glycine soja]

MGKPFTLSLSSLCLLLLSSACFAISSSKLNECQLNNLNALEPDHRVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSYSPYPRMIIIAQGKGALGVAIPGCPETFEEPQEQSN
RRGSRSQKQQLQDSHQKIRHFNEGDVLVIPPGVPYWTYNTGDEPVVAISLLDTSNFNNQL
DQTPRVFYLAGNPDIEYPETMQQQQQQKSHGGRKQGQHQQEEEEEGGSVLSGFSKHFLAQ
SFNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDKPRPSRPSHGKREQDQDQDEDEDEDEDQPRKSREWRSKKTQ
PRRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPAL
RQFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQGKVRVVNCQGNAVFDGELRRGQLL
VVPQNFVVAEQAGEQGFEYIVFKTHHNAVTSYLKDVFRAIPSEVLAHSYNLRQSQVSELK
YEGNWGPLVNPESQQGSPRVKVA

>AAB32224.1 Putative major allergen p Dp 15 [Dermatophagoides pteronyssinus]
MSQPILGYWDIRGYAQPIRLLLTYSGVDFVDKRYQIGPAPDFDRSEWLNEKFNLGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNGSNDHEEIRISMAEQQTEDMMAAMIRVCYDAN
CDKLKPDYLKSLPDCLKLMSKFVGEHAFIAGANISYVDFNLYEYLCHVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQQPKTFNAPTSKWNASYA

>BAA06905.1 Putative pre-pro-cucumisin [Cucumis melo]
MSSSLIFKLFFFSLFFSNRLASRLDSDDDGKNIYIVYMGRKLEDPDSAHLHHRAMLEQVV
GSTFAPESVLHTYKRSFNGFAVKLTEEEAEKIASMEGVVSVFLNEMNELHTTRSWDFLGF
PLTVPRRSQVESNIVVGVLDTGIWPESPSFDDEGFSPPPPKWKGTCETSNNFRCNRKIIG
ARSYHIGRPISPGDVNGPRDTNGHGTHTASTAAGGLVSQANLYGLGLGTARGGVPLARIA
AYKVCWNDGCSDTDILAAYDDAIADGVDIISLSVGGANPRHYFVDAIAIGSFHAVERGIL
TSNSAGNGGPNFFTTASLSPWLLSVAASTMDRKFVTQVQIGNGQSFQGVSINTFDNQYYP
LVSGRDIPNTGFDKSTSRFCTDKSVNPNLLKGKIVVCEASFGPHEFFKSLDGAAGVLMTS
NTRDYADSYPLPSSVLDPNDLLATLRYIYSIRSPGATIFKSTTILNASAPVVVSFSSRGP
NRATKDVIKPDISGPGVEILAAWPSVAPVGGIRRNTLFNIISGTSMSCPHITGIATYVKT
YNPTWSPAAIKSALMTTASPMNARFNPQAEFAYGSGHVNPLKAVRPGLVYDANESDYVKF
LCGQGYNTQAVRRITGDYSACTSGNTGRVWDLNYPSFGLSVSPSQTFNQYFNRTLTSVAP
QASTYRAMISAPQGLTISVNPNVLSFNGLGDRKSFTLTVRGSIKGFVVSASLVWSDGVHY
VRSPITITSLV

>CAA23682.1 Allergen Ovalbumin-like protein [Gallus gallus]
MGSIGAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRF
DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNDVYSFSLASRLYAEERYPILPEYLQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIV
FKGLWEKTFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTM
SMLVLLPDEVSGLEQLESIINFEKLTEWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMA
MGITDVFSSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGSAEAGVDAASVSEEFR
ADHPFLFCIKHIATNAVLFFGRCVSP

>CAA60628.1 Putative BETV4 protein [Betula pendula]
MADDHPQDKAERERIFKRFDANGDGKISAAELGEALKTLGSITPDEVKHMMAEIDTDGDG
FISFQEFTDFGRANRGLLKDVAKIF

>AAB01362.1 Allergen Ap15 [Malus x domestica]
MGVYTFENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>CAA59279.1 Putative albumin precursor [Felis catus]
MKWVTFISLLLLFSSAYSRGVTRREAHQSEIAHRFNDLGEEHFRGLVLVAFSQYLQQCPF
EDHVKLVNEVTEFAKGCVADQSAANCEKSLHELLGDKLCTVASLRDKYGEMADCCEKKEP
ERNECFLQHKDDNPGFGQLVTPEADAMCTAFHENEQRFLGKYLYEIARRHPYFYAPELLY
YAEEYKGVFTECCEAADKAACLTPKVDALREKVLASSAKERLKCASLQKFGERAFKAWSV
ARLSQKFPKAEFAEISKLVTDLAKIHKECCHGDLLECADDRADLAKYICENQDSISTKLK
ECCGKPVLEKSHCISEVERDELPADLPPLAVDFVEDKEVCKNYQEAKDVFLGTFLYEYSR

RHPEYSVSLLLRLAKEYEATLEKCCATDDPPACYAHVFDEFKPLVEEPHNLVKTNCELFE
KLGEYGFQNALLVRYTKKVPQVSTPTLVEVSRSLGKVGSKCCTHPEAERLSCAEDYLSVV
LNRLCVLHEKTPVSERVTKCCTESLVNRRPCFSALQVDETYVPKEFSAETFTFHADLCTL
PEAEKQIKKQSALVELLKHKPKATEEQLKTVMGDFGSFVDKCCAAEDKEACFAEEGPKLV
AAAQAALA

>CAA88833.1 Allergen major allergen [Malus x domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGATIKSISHY
HPKGNIEIKEEHVKVGKEKGHGLFKLIESYLKGHPDAYN

>CAA59338.1 Putative low molecular weight glutenin [Triticum aestivum]
FALIAVVATSTIAQMETSCIPGLERPWQQQPLPPQQTLFPQQQPFPQQQPPFSQQQPSFS
QQQPPFSQQQPILPEPPFSLQQQPVLPQQSPFSQQQLVLPPQQQQQLPQQQISIVQPSVL
QQLNPCKVFLQQQCSPVAMPQRLARSQMWQQSRCHVMQQQCCQQLSQIPEQSRYDAICAI
TYSIILQEQQQGFVQAQQQQPQQSGQGVSQSQQQSQQQLGQCSFQQPQQ

>CAA59339.1 Putative low molecular weight glutenin [Triticum aestivum]
HIPSLEKPLQQQPLPLQQILWYQQQQPIQQQPQPFPQQPPCSQQQQPPLSQQQQPPFSQQ
QPPFSQQQQPILPQQPPFSQQQQQFPQQQQPLLPQQPPFSQQQPPFSQQQQQPPFSQQQQ
QPILLQQPPFSQHQQPVLPQQQIPSVQPSILQQLNPCKVFLQQQCSPVAMPQSLARSQML
WQSSCHVMQQQCCRQLPQIPEQSRYDAIRAIIYSIVLQEQQHGQGLNQPQQQQPQQSVQG
VSQPQQQQKQLGQCSFQQPQQ

>CAA59340.1 Putative low molecular weight glutenin [Triticum aestivum]
HIPSLEKPSQQQPLPLQQILWYHQQQPIQQQPQPFPQQPPCSQQQQPPLSQQQQPPFSQQ
QPPFSQQELPILPQQPPFSQQQQPQFSQQQQPFPQQQQPLLLQQPPFSQQRPPFSQQQQQ
PVLPQQPPFSQQQQQQPILPQQPPFSLHQQPVLPQQQIPYVQPSILQQLNPCKVFLQQQC
SPVAMPQSLARSQMLWQSSCHVMQQQCCQQLPRIPEQSRYDAIRAIIYSIVLQEQQHGQG
FNQPQQQQPQQSVQGVSQPQQQQKQLGQCSFQQPQQ

>AAB48072.1 Allergen allergen and phospholipase A1 [Vespula vulgaris]
MEENMNLKYLLLFVYFVQVLNCCYGHGDPLSYELDRGPKCPFNSDTVSIIIETRENRNRD
LYTLQTLQNHPEFKKKTITRPVVFITHGFTSSASETNFINLAKALVDKDNYMVISIDWQT
AACTNEAAGLKYLYYPTAARNTRLVGQYIATITQKLVKHYKISMANIRLIGHSLGAHASG
FAGKKVQELKLGKYSEIIGLDPARPSFDSNHCSERLCETDAEYVQIIHTSNYLGTEKTLG
TVDFYMNNGKNQPGCGRFFSEVCSHSRAVIYMAECIKHECCLIGIPKSKSSQPISSCTKQ
ECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

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

>AAA78904.1 Allergen allergen precursor [Blomia tropicalis]
MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTQCTHEETTSTQHHHEEVV
TTQTPHHEEKTTTEETHHSDDLIVHEGGKTYHVVCHEEGPIHIQEMCNKYIICSKSGSLW
YITVMPCSIGTKFDPISRNCVLDN

>AAB32842.1 Allergen Der p V allergen [Dermatophagoides pteronyssinus]
MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDFLLMERIHEQIKKGELALFYLQEQINHFE
AKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRLMQRKDLDIFEQYNLEMAKKSGDILERDL
KKEEARVKKIEV

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

>CAA59419.1 Putative aspergillopepsin i [Aspergillus fumigatus]

MVVFSKVTAVVVGLSTIVSAVPVVQPRKGFTINQVARPVTNKKTVNLPAVYANALTKYGG
TVPDSVKAAASSGSAVTTPEQYDSEYLTPVKVGGTTLNLDFDTGSADLWVFSSELSASQS
SGHAIYKPSANAQKLNGYTWKIQYGDGSSASGDVYKDTVTVGGVTAQSQAVEAASHISSQ
FVQDKDNDGLLGLAFSSINTVSPRPQTTFFDTVKSQLDSPLFAVTLKYHAPGTYDFGYID
NSKFQGELTYTDVDSSQGFWMFTADGYGVGNGAPNSNSISGIADTGTTLLLLDDSVVADY
YRQVSGAKNSNQYGGYVFPCSTKLPSFTTVIGGYNAVVPGEYINYAPVTDGSSTCYGGIQ
SNSGLGFSIFGDIFLKSQYVVFDSQGPRLGFAPQA

>CAA54587.1 Allergen PmaI [Parietaria judaica]
MVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPPIDVNMDCKTVGVVPRQPQLPVSLRHGPVTGPSDPAHKARLER
PQIRVPPPAPEKA

>BAA04149.1 Allergen proteinase inhibitor [Solanum tuberosum]
MKCLFLLCLCLVPIVVFSSTFTSKNPINLPSDATPVLDVAGKELDSRLSYRIISTFWGAL
GGDVYLGKSPNSDAPCANGIFRYNSDVGPSGTPVRFIGSSSHFGQGIFENELLNIQFAIS
TSKLCVSYTIWKVGDYDASLGTMLLETGGTIGQADSSWFKIVKSSQFGYNLLYCPVTSTM
SCPFSSDDQFCLKVGVVHQNGKRRLALVKDNPLDVSFKQVQ

>AAB34365.1 Allergen major baker's asthma allergen Sec c 1=alpha-amylase/trypsin inhibitor homolog {N-terminal} [Secale cereale]
EQCYGESCRVGKSISNNPVPACREYV

>AAB34785.1 Putative 68 kDa allergen [Penicillium chrysogenum]
GPYKTWQRIYDYDFLTNLTSSEANDIIGAEAPLWSEQVDDVTVSSVFWPRAAALGELVWS
GNRDAAGRKRTTSFTQRILNFREYLVANGVMAAALVPKYCLQHPHACDLYKNQTVMS

>CAA58755.1 Putative Lep D 2 allergen precursor [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETDGCKVLKCPIKKGEALDFNYGMTIPAITPKIKADV
TAELVGDHGVMACGTIHGQVE

>CAA50008.1 Putative mung bean seed albumin [Vigna radiata var. radiata]
MSNLPYINAAFRFSSRDYEVYFFAKNKYVRLQYTPGKTEDKILTNLRLISSGFPSLAGTP
FAEPGIDSAFHTEASEAYVFSANNRAYIDYAPGTTNDKILAGPTTIAEMFPVLRNTVFAD
SIDSAFRSTKGKEVYLFKGNKYVRIDYDSKQLVGSIRNISDGFPVLNGTGFESGIDASFA
SHKEPEAYLFKGDKYVRIHFTPGKTDDTLVGDVRPILDGWPVLKAFCLCELNKPSLSCIN
HLSLVTINKAFISNVCLFFFNVTLGLEACFLS

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

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

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

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

THLPRVCNIRQVSVCPFQKTMPGPS

>CAA62910.1 Allergen allergen sin a 1.0105 [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLEGEFDFEDDMENPQGPQQ
RPPLLQQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTMPGPS

>CAA62911.1 Allergen allergen sin a 1.0106 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
RPPLLQQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLGQQGQQGPQVQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTMPGPS

>CAA62912.1 Allergen allergen sin a 1.0107 [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
RPPLLQQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTMPGPS

>CAA62908.1 Allergen allergen sin a 1.0108 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
KPPLLQQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLGQQGQQGPQVQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTMPGPS

>AAA80264.1 Allergen Der p 7 allergen polypeptide [Dermatophagoides pteronyssinus]
MMKLLLIAAAAFVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSDKFER
HIGIIDLKGELDMRNIQVRGLKQMKRVGDANVKSEDGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVVNHIGGLSILDPIFA
VLSDVLTAIFQDTVRAEMTKVLAPAFKKELERNNQ

>BAA11251.1 Allergen gamma-gliadin precursor [Triticum aestivum]
NIQVDPSGQVQWPQQQPFPQPHQPFSQQPQQTFPQPQQTFPHQPQQQFSQPQQPQQQFIQ
PQQPFPQQPQQTYPQRPQQPFPQTQQPQQPFPQSQQPQQPFPQPQQQFPQPQQPQQSFPQ
QQPSLIQQSLQQQLNPCKNFLLQQCKPVSLVSSLWSMILPRSDCQVMRQQCCQQLAQIPQ
QLQCAAIHSIVHSIIMQQEQQEQRQGVQILVPLSQQQQVGQGTLVQGQGIIQPQQPAQLE
VIRSSVLQTLATMCNVYVPPYCSTIRAPFASIVAGIGGQ

>2023228A Allergen major allergen Phl p Va [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIEKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPE
AKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANA
APANDKFTVFEAAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPPPLPPPPQPPPLAATGAATAATGGYKV

>2103117A Putative allergen Dac g II [Dactylis glomerata]
EAPVTFTVEKGSDEKNLALSIKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGPFNFRFVSEKGMRNVFVDVVPADFKVGTTYKPEEAAASASRRRSSEVFQFLILSCQ
GRIVNNCEVLICVMRRGNAMCLIASISMHHILTLDRFFFDGLEIIYKIFKMMFQKPRTRT
CIEKDFPRRSSSSIPT

>AAB38064.1 Putative thaumatin-like protein precursor [Prunus avium]
MMKTLVVVLSLSLTILSFGGAHAATISFKNNCPYMVWPGTLTSDQKPQLSTTGFELASQA
SFQLDTPVPWNGRFWARTGCSTDASGKFVCATADCASGQVMCNGNGAIPPATLAEFNIPA
GGGQDFYDVSLVDGFNLPMSVTPQGGTGDCKTASCPANVNAVCPSELQKKGSDGSVVACL
SACVKFGTPQYCCTPPQNTPETCPPTNYSEIFHNACPDAYSYAYDDKRGTFTCNGGPNYA
ITFCP

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

LVSKYTDSQGKNRTTIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYENYAIVEGCPA
AANGHVIYVQIRFSVRRFHPKLGDKEMIQHYTLDQVNQHKKAIEEDLKHFNLKYEDLHST
CH

>CAA93121.1 Putative protein with incomplete signal sequence [Holcus lanatus]
VFLGSAHGIAKVPPGPNITATYGDEWLDAKSTWYGKPTGAGPKDNGGACGYKDVDKPPFS
GMTGCGNTPIFKDGRGCGSCFEIKCSKPESCSGEPVTVHITDDNEEPIAPYHFDLSGHAF
GSMAKKGEEQKLRSAGELELKFRRVKCKYPDGTKPTFHVEKGSNPNYLALLVKYIDGDGD
VVAVDIKEKGKDKWIELKESWGAVWRVDTPDKLTGPFTVRYTTEGGTKGEAEDVIPEGWK
ADTAYEAK

>P43237.1 Allergen Allergen Ara h 1, clone P17 precursor (Ara h I) [Arachis hypogaea]
MRGRVSPLMLLLGILVLASVSATQAKSPYRKTENPCAQRCLQSCQQEPDDLKQKACESRC
TKLEYDPRCVYDTGATNQRHPPGERTRGRQPGDYDDDRRQPRREEGGRWGPAEPRERERE
EDWRQPREDWRRPSHQQPRKIRPEGREGEQEWGTPGSEVREETSRNNPFYFPSRRFSTRY
GNQNGRIRVLQRFDQRSKQFQNLQNHRIVQIEARPNTLVLPKHADADNILVIQQGQATVT
VANGNNRKSFNLDEGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFEDFFPASS
RDQSSYLQGFSRNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIVK
VSKEHVQELTKHAKSVSKKGSEEEDITNPINLRDGEPDLSNNFGRLFEVKPDKKNPQLQD
LDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKGTGNLELVAVRKEQQQRGRREQEWEEEE
EDEEEEGSNREVRRYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHRIFLAG
DKDNVIDQIEKQAKDLAFPGSGEQVEKLIKNQRESHFVSARPQSQSPSSPEKEDQEEENQ
GGKGPLLSILKAFN

>P43238.1 Allergen Allergen Ara h 1, clone P41B precursor (Ara h I) [Arachis hypogaea]
MRGRVSPLMLLLGILVLASVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTTNQRSPPGERTRGRQPGDYDDDRRQPRREEGGRWGPAGP
RERERREEDWRQPREDWRRPSHQQPRKIRPEGREGEQEWGTPGSHVREETSRNNPFYFPSR
RFSTRYGNQNGRIRVLQRFDQRSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNNRKSFNLDEGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFED
FFPASSRDQSSYLQGFSRNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSEN
NEGVIVKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLSNNFGKLFEVKPD
KKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKGTGNLELVAVRKEQQQRGRR
EEEEDEDEEEEGSNREVRRYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHR
IFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKNQKESHFVSARPQSQSQSPSSPEKE
SPEKEDQEEENQGGKGPLLSILKAFN

>P42058.1 Putative Minor allergen Alt a 7 (Alt a VII) [Alternaria alternata]
MAPKIAIVYYSMYGHIKKMADAELKGIQEAGGDAKLFQVAETLPQEVLDKMYAPPKDSSV
PVLEDPAVLEEFDGILFGIPTRYGNFPAQFKTFWDKTGKQWQQGAFWGKYAGVFVSTGTL
GGGQETTAITSMSTLVDHGFIYVPLGYKTAFSMLANLDEVHGGSPWGAGTFSAGDGSRQP
SELELNIAQAQGKAFYEAVAKAHQ

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

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

>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
RILKNCVDAKMTEEDKENALSVLDKIYTSPLC

>P46436.3 Allergen RecName: Full=Glutathione S-transferase 1; AltName: Full=GST class-sigma [Ascaris suum]
MPQYKLTYFDIRGLGEGARLIFHQAGVKFEDNRLKREDWPALKPKTPFGQLPLLEVDGEV
LAQSAAIYRYLGRQFGLAGKTPMEEAQVDSIFDQFKDFMAELRPCFRVLAGFEEGDKEKV
LKEVAVPARDKHLPLLEKFLAKSGSEYMVGKSVTWADLVITDSLASWESLIPDFLSGHLQ
LKKYIEHVRELPNIKKWIAERPKTPY

>P43212.1 Allergen Polygalacturonase precursor (PG) (Pectinase) (Major pollen allergen Cry j 2) (Cry j II) [Cryptomeria japonica]
MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDSDIEQYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVKNMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSRHGKIYHP

>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]
MKHLAAYLLLGLGGNTSPSAADVKAVLESVGIEADSDRLDKLISELEGKDINELIASGSE
KLASVPSGGAGGAAASGGAAAAGGSAQAEAAPEAAKEEEKEESDEDMGFGLFD

>AAA86533.1 Putative Ory s 1 [Oryza sativa]
MASSSLLLACVVVAAMVSPSPAGHPKVPPGPNITTSYGDKWLEARPPGMVRPRVLAPKDN
GGACGYKDVDKAPFLGMNSCGNDPIFKDGKGCGSCFEIKCSKPEACSDKPALIHVTDMND
EPIAAYHFDLSGLAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNPNYL
ALLVKYVAGDGDVVEVEIKEKGSEEWKALKESWGAIWRIDTPKPLKGPFSVRVTTEGARR
SSAEDAIPDPGRRQRVQVNVQAK

>AAA86744.1 Allergen aspartic protease precursor [Blattella germanica]
MIGLKLVTVLFAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLTVFDSTSCN
VVVASQECVGGACVCPNLQKYEKLKPKYISDGNVQVKFFDTGSAVGRGIEDSLTISNLTT
SQQDIVLADELSQEVCILSADVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHAR
FQDGEHFGEIIFGGSDWKYVDGEFTYVPLVGDDSWKFRLDGVKIGDTTVAPAGTQAIIDT
SKAIIVGPKAYVNPINEAIGCVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSGFQPCGHSDHFFIGDFFVDHYYSEFNWENKTMGFGRSVESV

>AAA87456.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSFPSRTTVMLLLFFFAASVGITDAQVGVCYGMQGNNLPPVSEVIALYK
KSNITRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
LFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>AAB09252.1 Putative 34 kDa maturing seed vacuolar thiol protease precursor [Glycine max]
MGFLVLLLFSLLGLSSSSSISTHRSILDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNSNYIRDMNANRKSPHSHRLGLNKFADITPQEFSKKYLQAPKDVSQQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESEGSYNGWQYQSFEWVLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPISVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVDYWIAKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>BAA05540.1 Putative prepro AprM [Bacillus sp.]
MRQSLKVMVLSTVALLFMANPAAASEEKKEYLIVVEPEEVSAQSVEESYDVDVIHEFEEI
PVIHAELTKKELKKLKKDPNVKAIEENAEVTISQTVPWGISFINTQQAHNRGIFGNGARV
AVLDTGIASHPDLRIAGGASFISSEPSYHDNNGHGTHVAGTIAALNNSIGVLGVAPSADL
YAVKVLDRNGSGSLASVAQGIEWAINNNMHIINMSLGSTSGSSTLELAVNRANNAGILLV
GAAGNTGRQGVNYPARYSGVMAVAAVDQNGQRASFSTYGPEIEISAPGVNVNSTYTGNRY
VSLSGTSMATPHVAGVAALVKSRYPSYTNNQIRQRINQTATYLGSPSLYGNGLVHAGRAT
Q

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

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

>BAA09634.1 Putative calcium-binding protein [Brassica rapa]
MADAEHERIFKKFDTDGDGKISAAELEEALKKLGSVTPDDVTRMMAKIDTDGDGNISFQE
FTEFASANPGLMKDVAKVF

>CAA65341.1 Allergen allergen [Malassezia sympodialis]
MRYSTVLAALALLGTSAVSVLAALPDQIDVKVKNLTPEDTIYDRTRQVFYQSNLYKGRIE
VYNPKTQSHFNVVIDGASSNGDGEQQMSGLSLLTHDNSKRLFAVMKNAKSFNFADQSSHG
ASSFHSFNLPLSENSKPVWSVNFEKVQDEFEKKAGKRPFGVVQSAQDRDGNSYVAFALGM
PAIARVSADGKTVSTFAWESGNGGQRPGYSGITFDPHSNKLIAFGGPRALTAFDVSKPYA
WPEPVKINGDFGTLSGTEKIVTVPVGNESVLVGARAPYAISFRSWDNWKSANIKKTKRSE
LQNSGFTAVADYYQGSEQGLYAVSAFFDNGAHGGRSDYPLYKLDNSILNF

>BAA07772.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
RHEVKRQCVATTHPAAPGTEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVG
HPMAEVFPGCRRGDLERRRRSLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA07773.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
RVVKRQCVATRRTGGADEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHP
MAEVFPGCRRGDLERARATLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA07774.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
FGTRFRQRQCVGPRRTRRRWTQQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATD
VGHPMAEVFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

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

QQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQDQGSVQPQQLPQFEEIRNLALQTLPAMC
NVYIPPYCTIAPFGIFGTN

>BAA09920.1 Putative prepro Der f 3 [Dermatophagoides farinae]
MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKT
PMTLDQTNAKPVPLPAQGSDVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDSGGPVVDVATKQIVGIVSWGYGCARKGYP
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]
GPVGGVVHAHMMPLL

>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]
GTTGTVVGALMPPLFVQGKEKEXPPSXKXG

>CAA96534.1 Allergen major allergen Mal d 1 [Malus x domestica]
MGVFNYETEFTSVIPPARLFNAFVLDADNLIPKIAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKSDVEIKEEHVKAGKEKASHLFKLIENYLLAHSDAYN

>CAA96535.1 Allergen major allergen Mal d 1 [Malus x domestica]
MGVFNYETETTSVIPAPRLFKAFILDGDNLIPKIAPQAIKSTEIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTSH
YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHSDAYN

>CAA96536.1 Allergen major allergen Mal d1 [Malus x domestica]
MGVFNYETEFTSVIPAPRLFKAFILDGDNLIPKIAPQAIKSTKIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTNSH
YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHSDAYN

>CAA96537.1 Allergen major allergen Mal d1 [Malus x domestica]
MGVFNYETEFTSVIPAPRLFKAFILDGDNLIPKIAPQAIKSTEIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTSH
YRAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHSDAYN

>AAA99805.1 Putative Der f 3 mite allergen [Dermatophagoides farinae]
IVGGVKAKAGDCPYQISLQSSSHFCGGSILDEYWILTAAHCVNGQSAKKLSIRYNTLKHA
SGGEKIQVAEIYQHENYDSMTIDNDVALIKLKTPMTLDQTNAKPVPLPPQGSDVKVGDKI
RVSGWGYLQEGSYSLPSELQRVDIDVVSREQCDQLYSKAGADVSENMICGGDVANGGVDS
CQGDSGGPVVDIATKQIVGIVSWGYGCARKGYPGVYTRVGNFVDWIESKRSQ

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

EGSPFKYVKERVDEVDRVNFKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGGSILKISNK
FHTKGDHEINAEQIKIEKEKAEGLLKAVESYHLAHSDAYN

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

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

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

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

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

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

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

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

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

>CAA66403.1 Allergen parvalbumin beta [Salmo salar]
MACAHLCKEADIKTALEACKAADTFSFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFCPKARELTDAETKAFLKAGDADGDGMIGIDEFAVLVKQ

>AAB01092.1 Allergen pathogenesis-related protein [Daucus carota]
LIFLLILSNNILNIMGAQSHSLEITSSVSAEKIFXXIVLDVDTVIPKAAPGAYKSVDVKG
DGGAGTVRIITLPEGSPITSMTVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVVP
TADGGSITKTTAIFHTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>P49370.1 Allergen Hyaluronoglucosaminidase (Hyaluronidase) (Allergen Ves v 2) (Ves v II) [Vespula vulgaris]
SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFNIKRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYKKRNGGVPQEGNITIHLQKFIENLDKIYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGYY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLSYWWYVYQDETNTFLTETDVKKTFQEIVINGGDGIIIWGSSS
DVNSLSKCKRLQDYLLTVLGPIAINVTEAVN

>P49372.1 Allergen Major allergen Api g 1 (Api g 1.0101) (Api g I) [Apium graveolens]
MGVQTHVLELTSSVSAEKIFQGFVIDVDTVLPKAAPGAYKSVEIKGDGGPGTLKIITLPD
GGPITTMTLRIDGVNKEALTFDYSVIDGDILLGFIESIENHVVLVPTADGGSICKTTAIF
HTKGDAVVPEENIKYANEQNTALFKALEAYLIAN

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

>P02789.2 Allergen Ovotransferrin precursor (Conalbumin) (Allergen Gal d 3) (Gal d III) (Serum transferrin) [Gallus gallus]
MKLILCTVLSLGIAAVCFAAPPKSVIRWCTISSPEEKKCNNLRDLTQQERISLTCVQKAT
YLDCIKAIANNEADAISLDGGQAFEAGLAPYKLKPIAAEVYEHTEGSTTSYYAVAVVKKG
TEFTVNDLQGKTSCHTGLGRSAGWNIPIGTLLHRGAIEWEGIESGSVEQAVAKFFSASCV
PGATIEQKLCRQCKGDPKTKCARNAPYSGYSGAFHCLKDGKGDVAFVKHTTVNENAPDQK
DEYELLCLDGSRQPVDNYKTCNWARVAAHAVVARDDNKVEDIWSFLSKAQSDFGVDTKSD
FHLFGPPGKKDPVLKDLLFKDSAIMLKRVPSLMDSQLYLGFEYYSAIQSMRKDQLTPSPR
ENRIQWCAVGKDEKSKCDRWSVVSNGDVECTVVDETKDCIIKIMKGEADAVALDGGLVYT
AGVCGLVPVMAERYDDESQCSKTDERPASYFAVAVARKDSNVNWNNLKGKKSCHTAVGRT
AGWVIPMGLIHNRTGTCNFDEYFSEGCAPGSPPNSRLCQLCQGSGGIPPEKCVASSHEKY
FGYTGALRCLVEKGDVAFIQHSTVEENTGGKNKADWAKNLQMDDFELLCTDGRRANVMDY
RECNLAEVPTHAVVVRPEKANKIRDLLERQEKRFGVNGSEKSKFMMFESQNKDLLFKDLT
KCLFKVREGTTYKEFLGDKFYTVISSLKTCNPSDILQMCSFLEGK

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

>BAA04557.1 Allergen Mag44 [Dermatophagoides farinae]
FFFVAAKQQQQPSTKMEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRA
LQKKIQQIENELDQVQEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEER
LKIATAKLEEASQSADESERMRKMLEHRSITDEERMDGLENQLKEARMMAEDADRKYDEV
ARKLAMVEADLERAEERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAYEQQI
RIMTAKLKEAEARAEFAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFAELTGY

>CAA64868.1 Allergen chitinase Ib [Castanea sativa]
MKLFSLLLFLAFLLGTSAEQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSP
TTTTSSPTASSGGGGDVGSLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNGFG
TTGDVTTRKRELAAFLAQTSHETTGGWATAPDGPYAWGYCFVMENNKQTYCTSKSWPCVF
GKQYYGRGPIQLTHNYNYGQAGKAIGADLINNPDLVATNPTISFKTAIWFWMTPQANKPS
SHDVIIGNWRPSAADTSAGRVPSYGVITNIINGGLECGHGSDDRVANRIGFYKRYCDTLG
VSYGNNLDCYNQKPFA

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

PKCPQVFNKLGMYPPNM

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

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

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

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

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

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

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

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

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

>AAC80579.1 Putative allergen [Blomia tropicalis]
MPIEGKYKLEKSDNFDKFLDELGVGFMVKTAAKTLKPTLEVDVQGDTYVFRSLSTFKNTE
IKFKLGEEFEEDRADGKRVKTVVNKEGDNKFIQTQYGDKEVKIVRDFQGDDVVVTASVGD
VTSVRTYKRI

>BAA07710.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVFSALLLIIVSVLAATGPMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVATAHPAARGNEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHPMAE
VFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>BAA07711.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
GTRLLLIIVSVLAATRRMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVKRQCVGHG
APGGAVDEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHPMAEVFPGCRR
GDLERAAASLPAFCNVDIPNGTGGVCYWLGYTPRTPRTGH

>BAA07712.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVIPALLVVVVSVLAATTTMADHHQEQVVYTPGQLCQPGIGYPTYPLPRCRAFVK
RQCVAPGTLDEQVRRGCCRQLAGIDSSWCRCDALNHMLRIIYREERAADAGHPMAEVFRG
CRRGDIERAAASLPAFCNVDIPNGVGGVCYWLPGTGY

>BAA07713.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVFSVLLLAVVSVLAATATMAEYHHQDQVVYTPAPLCQPGMGYPMYPLPRCRALV
KRQCVGRGTAAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHPMSEV
FRGCRRGDLERAAASLPAFCNVDIPNGGGGVCYWLARSGY

>CAA35188.1 Allergen trypsin inhibitor cme precursor [Hordeum vulgare]
MAFKYQLLLSAAVMLAILVATATSFGDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCCDELSAIPAYCRCEALRIIMQGVVTWQGAFEGAYFKDSPNCPRERQTSYAANL
VTPQECNLGTIHGSAYCPELQPAY

>AAB36316.1 Putative Myr p II [Myrmecia pilosula]
MKLSCLLLTLAIIFVLTIVHAPNVEAKALADPESDAVGFADAVGEADPIDWKKVDWKKVS
KKTCKVMLKACKFLG

>AAB35897.1 Putative 31 kda major allergen/disease resistance protein homolog {N-terminal} [Malus x domestica]
AKITFTNNXPNTVWPGILTGFGQKPQ

>AAC49447.1 Allergen latex allergen [Hevea brasiliensis]
MASVEVESAATALPKNETPEVTKAEETKTEEPAAPPASEQETADATPEKEEPTAAPAEPE
APAPETEKAEEVEKIEKTEEPAPEADQTTPEEKPAEPEPVAEEEPKHETKETETEAPAAP
AEGEKPAEEEKPITEAAETATTEVPVEKTEE

>AAC02632.1 Allergen cherry-allergen PRUA1 [Prunus avium]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIIKSTSH
YHTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>BAA08246.1 Putative Chao1 [Chamaecyparis obtusa]
MASCTLLAVLVFLCAIVSCFSDNPIDSCWRGDANWDQNRMKLADCAVGFGSSAMGGKGGA
FYTVTSSDDDPVNPAPGTLRYGATRERSLWIIFSKNLNIKLNMPLYIAGNKTIDGRGAEV
HIGNGGPCLFMRTVSHVILHGLNIHGCNTSVSGNVLISEASGVVPVHAQDGDAITMRNVT
DVWIDHNSLSDSSDGLVDVTLASTGVTISNNHFFNHHKVMLLGHSDIYSDDKSMKVTVAF
NQFGPNAGQRMPRARYGLIHVANNNYDPWSIYAIGGSSNPTILSEGNSFTAPNDSDKKEV
TRRVGCESPSTCANWVWRSTQDSFNNGAYFVSSGKNEGTNIYNNNEAFKVENGSAAPQLT
KNAGVLTCILSKPCS

>AAB09632.1 Allergen allergen [Periplaneta americana]
DIGDHYDIEANIGHYKYPHVVKNFISYYKKGLLPRGEPFSVYYEKHREQAIKLFELFFAA

NDYDTFYKTACWARDRVNEGMFMYALTVAAFHREDTKDLVLPPPYEVNPYLFVEDDVIQQ
AYKYWTKESGTDKHVEHVIPVNFTARSQEDLVAYFREDVDLNAFNMYFRYIYPSWFNTTL
YGKSFDRRGEQFYYTYHQIYARYFLERLSNSLPDVKPFQYSKPLKTGYNPHLRYHNGEEM
PARPSNMYPTNFDLFYVSDIKNYERRVEKAIDFGYAFDEHRTPYSLYHDQHGMDYLGQMI
EGTRNSPHQYFYGSVFHFYRLLVGHVVDPYHKNGLAPSALEHPQTALRDPAFYQLWKRID
HIVQKYKNRLPRYTYDELSFPGVKIENVDVGKLYTYFEHFEHSLGNAMYLGKLEDYMKAS
IRARHYRLNHKPFTYNIEVSSDKAQDVYVRIFLGPKYDSLGHECELDERRHYFVEMDRFV
HKVEAGKTVIERKSHDSSIISDSHDSYRNLFKKVSDALQEKDQYYIDKSHKYCGYPENLL
LPKGKKGGQTFTFYVIVTPYVKQDEHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPFDRK
IHDYDFYTPNMYFKDVVIFHKKYDEVHDVTH

>CAA65122.1 Allergen P8 protein [Parietaria judaica]
MRTVSMAALVVIAAALAWTSSAELASAPAPGEGPCGKVVHHIMPCLKFVKGEEKEPSKSC
CSGTKKLSEEVKTTEQKREACKCIVAATKGISGIKNELVAEVPKKCGITTTLPPITADFD
CSKIESTIFRGYY

>CAA65123.1 Allergen P9 protein [Parietaria judaica]
MRTVSAPSAVALVVIVAAGLAWTSLASVAPPAPAPGSEETCGTVVRALMPCLPFVQGKEK
EPSKGCCSGAKRLDGETKTGLQRVHACECIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLP
PIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGPSDPAHKARLERPQIRVPPPAPEKA

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

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

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

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

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

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

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

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

EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEKMKGAKEMAEKLLRAVESYLLAHTDEYN

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

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

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

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

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

>CAB02216.1 Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNYEAETTSVIPAARLFKAFILDGNKLIPKVSPQAVSSVENVEGNGGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKYSYTVIEGGFVGDKVEKICNEIKIVAAPDGGSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>CAB02217.1 Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNYEAETTSVIPAARLFKAFILDGNNLIPKVAPQAVSSVENVEGNGGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKYSYTVIEGGPVGDKVEKICNEIKIVAAPDGGSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>AAB63099.1 Allergen cysteine proteinase inhibitor 10 precursor, partial
[Solanum tuberosum]
TCHDDDNLVLPEVYDQDGNPLRIGERYIIKNPLLGAGAVYLDNIGNLQCPNAVLQHMSIP
QFLGKGTPVVFIRKSESDYGDVVRLMTAVYIKFFVKTTKLCVDETVWKVNNEQLVVTGGN
VGNENDIFKIKKTDLVIRGMKNVYKLLHCPSHLECKNIGSNFKNGYPRLVTVNDEKDFIP
FVFIKA

>AAC48691.1 Putative Equ c1 [Equus caballus]
MKLLLLCLGLILVCAQQEENSDVAIRNFDISKISGEWYSIFLASDVKEKIEENGSMRVFV
DVIRALDNSSLYAEYQTKVNGECTEFPMVFDKTEEDGVYSLNYDGYNVFRISEFENDEHI
ILYLVNFDKDRPFQLFEFYAREPDVSPEIKEEFVKIVQKRGIVKENIIDLTKIDRCFQLR
GNGVAQA

>AAB62731.1 Allergen allergen [Periplaneta americana]
LNAFNMYFRYIYPTWFNTTLYGKTFDRRGEQFYYTYHQIYARYFLERLSNSLPDVKPFQY
SKPLKTGYNPHLRYQNGEEMPARPSNMYPTNIDLFYVSDIKNYESRVEKAIDFDAFDEHR
TPYSLYHDQHGMDYLGQMIEGTSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALE
HHQTALRDPAFYQLWKRIDHIVQKYKNRLPRYTYDELSFPGVKIENVDVGKLYTYFEHFE
HSLGNAMYLGKLEDVLKANIRARHYRLNHKPFTYNIEVSSDKAQDVYVRIFLGPKYDSLG
HECELDERRHYFVEMDRFVHKVEAGKTVIERKSHDSSIISDSHDSYRNLFKKVSDALEGK

DQYYIDNSHKYCGYPENLLLPKGKKGGQTFTFYVIVTPYVKQDEHDLESYHYKAFTYCGV
GHGRKYPDDKPLGFPFDRKIHDYDFYTPNMYFKDVVIFHKKYDEVHNETN

>AAB63595.1 Allergen allergen [Periplaneta americana]
EMPARPSNMYPTNIDLFYVSDIKNYESRVEKAIDFGYAFDEHRTPYSLYHDQHGMDYLGQ
MIEGTSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALEHHQTALRDPAFYQLWKR
IDHIVQKYKNRLPRYTYDELSFPGVKIENVDVGKLYTYFEHFEHSLGNAMYIGKLEDLLK
ANIRASHYRLNHKPFTYNIEVSSDKAQDVYVRIFLGPKYDSLGHECELDERRHYFVEMDR
FVHKVEAGKTVIERKSHDSSIISDSHDSYRNLYKKVADALEEKDQYYIDKSHKYCNYPEN
LLLPKGKKGGQTFTFYVIVTPYVKQEQHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPFD
RKIHDYDFYTPNMYFKDVVIFHKKYDEVHEVTH

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

>2118249B Putative allergen Lep d 1.02 [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETDGCKVLKCPIKKGEALDFNYGMTIPAITPKIKADV
TAELVGDHGVMACGTIHGVQE

>2118271A Allergen allergen PhI p I [Phleum pratense]
MASSSSVLLVVALFAVFLGSAHGIPKVPPGPNITATYGDKWLDAKSTWYGKPTAAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCGSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAAYHFDLSGIAFGSMAKKGDEQKLRSAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFSGDGDVVAVDIKEKGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGG
TKARAKDVIPEGWKADTAYESK

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

>2209273A Putative Zm13 [Zea mays]
MASVPAPATTTAAVILCLCVVLSCAAADDPNLPDYVIQGRVYCDTCRAGFVTNVTEYIAG
AKVRLECKHFGTGKLERAIDGVTDATGTYTIELKDSHEEDICQVVLVASPRKDCDEVQAL
RDRAGVLLTRNVGISDSLRPANPLGYFKDVPLPVCAALLKQLDSDDDDDQ

>1ESF_B Allergen Chain B, Staphylococcal Enterotoxin A [Staphylococcus aureus]
SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNEKAKTENKESHDQFLQHTILFKGFFTD
HSWYNDLLVDFDSKDIVDKYKGKKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT
EEKKVPINLWLDGKQNTVPLETVKTNKKNVTVQELDLQARRYLQEKYNLYNSDVFDGKVQ
RGLIVFHTSTEPSVNYDLFGAQGQYSNTLLRIYRDNKTINSENMHIDIYLYTS

>AAB60779.1 Allergen manganese superoxide dismutase [Aspergillus fumigatus]
GTSPIQTPINTMSQQYTLPPLPYPYDALQPYISQQIMELHHKKHHQTYVNGLNAALEAQK
KAAEATDVPKLVSVQQAIKFNGGGHINHSLFWKNLAPEKSGGGKIDQAPVLKAAIEQRWG
SFDKFKDAFNTTLLGIQGSGWGWLVTDGPKGKLDITTTHDQDPVTGAAPVFGVDMWEHAY
YLQYLNDKASYAKGIWNVINWAEAENRYIAGDKGGHPFMKL

>BAA13604.1 Allergen cr16 [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKGDGGAGTVRIITLPE
GSPITSMTVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>CAB05371.1 Allergen major allergen Phl p 5 [Phleum pratense]

AVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGFKAAVAAAAS
VPAGDKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVASLT
EALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKFTV
FEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAITAM
SEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>CAB05372.1 Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSSKGALTSKLEAAYKLAYKTSEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEEVKVIPAGELQFIEKVDSALKVAATAANAAAANDKFTVF
EAAFNHAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>AAB37403.1 Allergen gamma-70 secalin isoform S10-12=coeliac
immunoreactive protein/prolamin {N-terminal} [Secale cereale]
NMQVNPSGQVQWPQQQPFPQPQQ

>AAB37406.1 Allergen gamma-35 secalin isoform P13-14=coeliac
immunoreactive protein/prolamin {N-terminal} [Secale cereale]
NMQVGPSGQVSWPQQQPLPQPQQXVYQXP

>P02222.2 Putative Globin CTT-II beta precursor [Chironomus thummi
thummi]
MKFLVLALCIAAAVAAPLSADEASLVRGSWAQVKHSEVDILYYIFKANPDIMAKFPQFAG
KDLETLKGTGQFATHAGRIVGFVSEIVALMGNSANMPAMETLIKDMAANHKARGIPKAQF
NEFRASLVSYLQSKVSWNDSLGAAWTQGLDNVFNMMFSYL

>P02223.2 Putative Globin CTT-IX precursor [Chironomus thummi thummi]
MKFFIVLALCIVGAIADPVSSDQANAIRASWAGVKHNEVDILAAVFSDHPDIQARFPQFA
GKDLASIKDTGAFATHAGRIVGFISEIVALVGNESNAPAMATLINELSTSHHNRGITKGQ
FNEFRSSLVSYLSSHASWNDATADAWTHGLDNIFGMIFAHL

>P80198.1 Allergen RecName: Full=Gamma-hordein-3 [Hordeum vulgare]
ITTTTMQFNPSGLELERPQQLFPQWQPLPQQPPFLQQEPEQPYPQQQPLPQQQPFPQQPQ
LPHQHQFPQQLPQQQFPQQMPLQPQQQFPQQMPLQPQQQPQFPQQKPFGQYQQPLTQQPY
PQQQPLAQQQPSIEEQHQLNLCKEFLLQQCTLDEKVPLLQSVISFLRPHISQQNSCQLKR
QQCCQQLANINEQSRCPAIQTIVHAIVMQQQVQQQVGHGFVQSQLQQLGQGMPIQLQQQP
GQAFVLPQQQAQFKVVGSLVIQTLPMLCNVHVPPYCSPFGSMATGSGGQ

>P53357.1 Allergen Phospholipase A1 2 (Allergen Dol m 1.02) (Dol m I)
[Dolichovespula maculata]
GILPECKLVPEEISFVLSTRENRDGVYLTLQKLKNGKMFKNSDLSSKKVPFLIHGFISSA
TNKNYADMTRALLDKDDIMVISIDWRDGACSNEFALLKFIGYPKAVENTRAVGKYIADFS
KILIQKYKVLLENIRLIGHSLGAQIAGFAGKEFQRFKLGKYPEIIGLDPAGPSFKKKDCP
ERICETDAHYVQILHTSSNLGTERTLGTVDFYINDGSNQPGCTYIIGETCSHTRAVKYLT
ECIRRECCLIGVPQSKNPQPVSKCTRNECVCVGLNAKEYPKKGSFYVPVEAKAPFCNNNG
KII

>P51528.1 Allergen Phospholipase A1 (Allergen Ves m 1) (Ves m I) [Vespula
maculifrons]
GPKCPFNSDTVSIIIETRENRNRDLYTLQTLQNHPEFKKKTITRPVVFITHGFTSSASEK
NFINLAKALVDKDNYMVISIDWQTAACTNEYPGLKYAYYPTAASNTRLVGQYIATITQKL
VKDYKISMANIRLIGHSLGAHVSGFAGKRVQELKLGKYSEIIGLDPARPSFDSNHCSERL
CETDAEYVQIIHTSNYLGTEKILGTVDFYMNNGKNNPGCGRFFSEVCSHTRAVIYMAECI
KHECCLIGIPRSKSSQPISRCTKQECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>AAB41308.1 Putative albumin seed storage protein precursor [Juglans
regia]

AALLVALLFVANAAAFRTTITTMEIDEDIDNPRRRGEGCREQIQRQQNLNHCQYYLRQQS
RSGGYDEDNQRQHFRQCCQQLSQMDEQCQCEGLRQVVRRQQQQQGLRGEEMEEMVQSARD
LPNECGISSQRCEIRRSWF

>AAB42069.1 Allergen non specific lipid transfer protein [Solanum lycopersicum]
MEMFGKIACFVVFCMVVVAPHAESLSCGEVTSGLAPCLPYLEGRGPLGGCCGGVKGLLGA
AKTPEDRKTACTCLKSAANSIKGIDTGKAAGLPGVCGVNIPYKISPSTDCSTVQ

>AAB42200.1 Putative Dac gIII allergen [Dactylis glomerata]
VKVTFKVEKGSDPKKLVLDIKYTRPGDTLAEVELRQHGSEEWEPLTKKGNLWEVKSSKPL
TGPFNFRFMSKGGMRNVFDEVIPTAFKIGTTYTPEE

>AAB46819.1 Putative Par o 1a=acidic allergen isoform {N-terminal} [Parietaria officinalis]
ATGKVVQDIMPPLLFVVQGKEKPSS

>AAB46820.1 Putative Par o 1b=basic allergen isoform {N-terminal} [Parietaria officinalis]
GPXGKVVHIIMPPLKFVKGEESEP

>AAB47552.1 Allergen major allergen Alt a 1 subunit [Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNSLGF
NIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMDFSFDSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGGNGPKDFVCQGVADAYITLVTLPKSS

>AAB48041.1 Putative ribosomal P2 phosphoprotein [Alternaria alternata]
MKHLAAYLLLGLGGNTSPSAADVKAVLESVGIEADSDRLDKLISELEGKDINELIASGPE
KLASVPSGGAGGAAASGGAAAAGGSAEAEAAPEAAKEEEKEESDEDMGFGLFD

>CAA62634.1 Putative calcium-binding pollen allergen [Cynodon dactylon]
KTMADTGDMEHIFKRFDTNGDGKISLAELTDALRTLGSTSADEVQRMMAEIDTDGDGFID
FDEFISFCNANPGLMKDVAKVF

>CAA72273.1 Putative serpin [Triticum aestivum]
MATTLATDVRLSIAHQTRFALRLASTISSNPKSAASNAAFSPVSLHSALSLLAAGAGSAT
RDQLVATLGTGEVEGGHALAEQVVQFVLADASSAGGPRVAFANGVFVDASLLLKPSFQEL
AVCKYKAETQSVDFQTKAAEVTTQVNSWVEKVTSGRIKNILPSGSVDNTTKLVLANALYF
KGAWTDQFDSYGTKNDYFYLLDGSSVQTPFMSSMDDDQYISSSDGLKVLKLPYKQGGDNR
QFSMYILLPEAPGGLSSLAEKLSAEPDFLERHIPRQRVAIRQFKLPKFKISFGMEASDLL
KCLGLQLPFSDEADFSEMVDSPMPQGLRVSSVFHQAFVEVNEQGTEAAASTAIKMVPQQA
RPPSVMDFIADHPFLFLLREDISGVVLFMGHVVNPLLSS

>AAB50883.1 Putative Myr p I=allergenic polypeptide {N-teminal} [Myrmecia pilosula]
MKLSCLLLTLAIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ

>AAC27724.1 Allergen latex patatin homolog [Hevea brasiliensis]
MATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDLDGPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTSTDVIIPTFDIKLLLPVIFPSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDSHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>AAB58417.1 Allergen 30 kDa salivary gland allergen Aed a 3 [Aedes aegypti]
MKPLVKLFLLFCLVGIVLSRPMPEDEEPVAEGGDEETTDDAGGDGGEEENEGEEHAGDED
AGGEDTGKEENTGHEDAGEEDAGEEDAGEEDAEKEEGEKEDAGDDAGSDDGEEDSTGGDE
GEANAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEYLRSALNNDLQSEVRVPVVEA
IGRIGDYSKIQGCFKSMGKDVKKVISEEEKKFKSCMSKKKSEYQCSEDSFAAAKSKLSPI
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 Putative cellular serine proteinase [Aspergillus fumigatus]
MKGYLSLSILPLLVAASPVVVDSIHNGAAPILSSMNAKEVPDSYIVVFKKHVNAESAAAH
HSWVQDIHSAQNERVELRKRSLFGFGEEAYLGLKNTFDIAGSLVGYSGHFHEDVIEQVRK
HPDVEYIEKDSEVHTMEDPTVEKSAPWGLARISHRDSLSFGTFNKYLYASEGGEGVDAYT
IDTGINVDHVDFEGRAQWGKTIPTDDEDADGNGHGTHCSGTIAGRKYGVAKKANLYAVKV
LRSSGSGTMSDVVAGVEWAVKSHLKKVKDAKDGKIKGFKGSVANMSLGGGKSRTLEAAVN
AGVEAGLHFAVAAGNDNADACNYSPAAAENPITVGASTLQDERAYFSNYGKCTDIFAPGL
NILSTWIGSKHAVNTISGTSMASPHIAGLLAYFVSLQPSKDSAFAVDELTPKKLKKDIIA
IATQGALTDIPSDTPNLLAWNGGGSSNYTDIIASGGYKVNASVKDRFEGLVHKAEKLLTE
ELGAIYSEIHDAAVA

>CAA69670.1 Putative profilin 1 [Cynodon dactylon]
MSWQAYVDDHLMCEIEGHHLTSAAIIGHDGTVWAQSAAFPAFKPEEMANIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGVTVKKTGQALVIGIYDEPMTPGQCNMVIE
KLGDYLIEQGM

>CAB03715.1 Allergen major allergen [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAATGAYKSVEVKGDGGAGTVRIITLPE
GSPITTMTVRTDAVNKEALSYDSTVIDGDILLGFIESIETHMVVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>CAB03716.1 Allergen major allergen [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKGDGGAGTVRIITLPE
GSPITSMTVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADEQNTALFKAIEAYLIAN

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

>CAB06417.1 Putative xylosidase [Aspergillus niger]
MAHSMSRPVAATAAALLALALPQALAQANTSYVDYNIEANPDLYPLCIETIPLSFPDCQN
GPLRSHLICDETATPYDRAASLISLFTLDELIANTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGAYNWATSFPQPILTTAALNRTLIHQIASIISTQGRAFNNAGRYGLDVYAPN

INTFRHPVWGRGQETPGEDVSLAAVYAYEYITGIQGPDPESNLKLAATAKHYAGYDIENW
HNHSRLGNDMNITQQDLSEYYTPQFHVAARDAKVQSVMCAYNAVNGVPACADSYFLQTLL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAAEAILAGTDIDCGTTYQWHLNESI
AAGDLSRDDIEQGVIRLYTTLVQAGYFDSNTTKANNPYRDLSWSDVLETDAWNISYQAAT
QGIVLLKNSNNVLPLTEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAAQSADVIIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASAAGKKPLIVLQMGGGQVDSSSLKNNTNVSALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEEFPATDMNLRPEGDNPGQTYKWYTGEAVYEFGHGLFYTTFA
ESSSNTTTKEVKLNIQDILSQTHEDLASITQLPVLNFTANIRNTGKLESDYTAMVFANTS
DAGPAPYPKKWLVGWDRLGEVKVGETRELRVPVEVGSFARVNEDGDWVVFPGTFELALNL
ERKVRVKVVLEGEEEVVLKWPGKE

>CAA73221.1 Putative group 2 allergen [Tyrophagus putrescentiae]
MKFLILFALVAVAAAGQVKFTDCGKKEIASVAVDGCEGDLCVIHKSKPVHVIAEFTANQD
TCKIEVKVTGQLNGLEVPIPGIETDGCKVLKCPLKKGTKYTMNYSVNVPSVVPNIKTVVK
LLATGEHGVLACGAVNTDVKP

>AAC34736.1 Allergen Cr-PII allergen [Periplaneta americana]
INEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETSPDFKAL
YDAIRSPEFQSIISTLNAMQRSEHHQNLRDKGVDVDHFIQLIRALFGLSRAARNLQDDLN
DFLHSLEPISPRHRHGLPRQRRRSARVSAYLHADDFHKIITTIEALPEFANFYNFLKEHG
LDVVDYINEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETS
PDFKALYDAIRSPEFQSIISTLNAMPEYQELLQNLRDKGVDVDHFIRVDQGTLRTLSSGQ
RNLQDDLNDFLALIPTDQILAIAMDYLANDAEVQELVAYLQSDDFHKIITTIEALPEFAN
FYNFLKEHGLDVVDYINEIHSIIGLPPFVPPSQRHARRGVGINGLIDDVIAILPVDELKA
LFQEKLETSPDFKALYDAIDLRSSRA

>AAC34737.1 Allergen Cr-PII allergen [Periplaneta americana]
VGVDGLIDDIIAILPIDDLKALFQEKLETSLDFKAFYDAVRSPEFQSIVQTLNAMPEYQD
LLQKLRDKGVDVDHYIELIRALFGLTREARNLQDDLNDFLALIPTDQILAIAMDYLANDA
EVQELVAYLQSDDFHKIINTIEALPEFANFYNFLKGHGLDVANYINEIHSIIGLPPFVPP
SRRHARRGVGINGLIDDVIAILPVDELKTLFQEKLETSPDFKALYDAIRSPEFQSIISTL
NAMPEYQELLQNLRDKGVDVDHFIELIRSWFGLP

>CAB10766.1 Allergen group V grass pollen allergen [Holcus lanatus]
QKLLEDVNASFKAAVAAAAKVPPADKYKTFLRAFTVLDRGSTEQSKAEETKMPELSSKLV
DAYMAAFKASTGGTQEAKYDAFVTTLTEALRVIAGALEVHAVKPATEEVPAAKIPAGDLQ
VVDKIDASFKIAATAANAAPANDKFTVFETAFNKALKESTGGAYESYKFIPSLEAAVKQA
YASTVAAAPEVKYAVFEAALTKAITAMSQAQKVAQPAAAATGAATVAAGAATTAAGGYKV

>CAB10765.1 Allergen group V allergen [Holcus lanatus]
ADAGYTPAAPAAAGAGGKATTDEQKLLEDVNAGFKTAVAAAANVPPADKYKTFEAAFTAS
SKASIAAAATKAPGLIPQLNAATNTAYAAAQGATPEAKYDAFVTTLTEALRVIAGALEVH
AVKPATEEVGAAKIPAGELQIVDKIDAAFRIAATAANAAPVNDKFTVFEGAFNKAIKEST
GGAYEAYKFIPSLETAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKEAKPVAAA
TGAATAAAGVAAGAATAAAGGYKV

>AAB66909.1 Putative pollen allergen [Olea europaea]
DEAQFKECYDTCHKECSDKGNGFTFCEMKCDTDCSVKDVKEKLENYKPKN

>AAB65434.1 Putative sol i 3 antigen [Solenopsis invicta]
MELIVSILWLAITAENLANTLATNYCNLQSCKRNNAIHTMCQYTSPTPGPMCLEYSNVGF
TDAEKDAIVNKHNELRQRVASGKEMRGTNGPQPPAVKMPNLTWDPELATIAQRWANQCTF
EHDACRNVERFAVGQNIAATSSSGKNKSTPNEMILLWYNEVKDFDNRWISSFPSDDNILM
KVGHYTQIVWAKTTKIGCGRIMFKEPDNWTKHYLVCNYGPAGNVLGAPIYEIKK

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

SVAISRYLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQPNLKALRE
KVLGLPAIKAWVAKRPPTDL

>AAB69424.1 Allergen tropomyosin [Dermatophagoides pteronyssinus]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMEGLENQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFAELTGY

>CAA50281.1 Allergen Major Pollen Allergen Phl p Va [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIEKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPE
AKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANA
APANDKFTVFEAAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAA81609.1 Allergen pollen allergen PhlpVb [Phleum pratense]
AAAAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAA
AASVPAADKFKTFEAAFTSSSKAAAAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVA
SLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDK
FTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAI
TAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>CAA96545.1 Allergen major allergen Bet v 1 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFFLDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFRYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKEEQIKASKEMGETLLRAVESYLLAHSDAYN

>CAA70608.1 Putative profilin 2 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVEQGM

>CAA70609.1 Putative profilin 3 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAIFGHDGTVWAQSADFPQFKPEEITGIMKDLDEPGHL
APTGMFVAAAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVEQGM

>CAA75141.1 Allergen tropomyosin [Dermatophagoides pteronyssinus]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMEGLENQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSISDELDQTFAELTGY

>AAD13683.1 Allergen major allergen Mal d 1 [Malus x domestica]
MGVYTFENEYTSEIPPPRLFKGFVLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

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

>CAA73037.1 Allergen Ole e 1.0103 protein [Olea europaea]

MEDVPQPPVSQFHIQGQVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDVTFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILSTVNGTTRTVNP
LGFYKKEALPKCAQVYNKLGMYPPNM

>CAA73036.1 Allergen Ole e 1 protein [Olea europaea]
MEDVPQPPVSQFHIQGQVYCDTCRSRFITELSEFIPGASVRLQCREKENGDITFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNP
LGFFKKEALPKCAQVYNKLGMYPPNM

>CAA73035.1 Putative profilin 1 [Olea europaea]
MSWQAYVDDHLMCDIEGHEDHRLTAAAIVGHDGSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNM
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]
MKAVFLTLLFGLVCTAQETPAEIDPSKIPGEWRIIYAAADNKDKIVEGGPLRNYYRRIEC
INDCESLSITFYLKDQGTCLLLTEVAKRQEGYVYVLEFYGTNTLEVIHVSENMLVTYVEN
YDGERITKMTEGLAKGTSFTPEELEKYQQLNSERGVPNENIENLIKTDNCPP

>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]
MRTVSMAALVVIAAALAWTSSAEPAPAPAPGEEACGKVVQDIMPCLHFVKGEEKEPSKEC
CSGTKKLSEEVKTTEQKREACKCIVRATKGISGIKNELVAEVPKKCDIKTTLPPITADFD
CSKIQSTIFRGYY

>Q41260.1 Putative Major pollen allergen Pha a 1 precursor (Pha a I) [Phalaris aquatica]
MMKMVCSSSSSSLLVVAALLAVFVGSAQGIAKVPPGPNITAEYGDKWLDAKSTWYGKPTG
AGPKDNGGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFELKCSKPESCSGEPITVH
ITDDNEEPIAPYHFDLSGHAFGSMAKKGEEENVRGAGELELQFRRVKCKYPDGTKPTFHV
EKGSNPNYLALLVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAIWRIDTPDKLTGPFTV
RYTTEGGTKAEFEDVIPEGWKADTHDASK

>P56164.1 Putative Major pollen allergen Pha a 5.1 precursor (Pha A 5) (Clone 28) [Phalaris aquatica]
MAVQKYTMALFLAVALVAGPAAPTPPTPRTPPLLPPPRARDKATLTSRSVEDINAASRRP
WWASVPPADKFKTFADHVLCVPNADVTSAATKAPQLKAKLDAAYRVAYEAAEGSTPEAKY
DAFIAALTEALRVIAGAFEVHAVKPATEEVVADPVGELQIVDKIDAAFKIAATAANSAPA
NDKFTVFEGAFNKAIKESTAGAYETYKFIPSLEAAVKQAYGATVARAPEVKYAVFEAGLT
KAITAMSEAQKVAKPPLSPQPPQVLPLAAGGAATVAAASDVRVCRSHGTLQDACLLRCRG
GCQPVVWRGGSHRARGGYKV

>P56165.1 Putative Major pollen allergen Pha a 5.2 precursor (Pha a 5) (Clone 14) [Phalaris aquatica]
MAVQKYTVALFLAVALVAGPAALYAGDGYAPATPAASATLATPATPAASPQHAGTTEYHI
VRKAGLNEEKNAARQTDDEQKRSDEINCPDFNKSVHCRADRLPVCSSTSAHSSKQDVAWM
LGYGSIQGFSMDDASVGSVSSEFHVIESAIEVITYIGEEVKVIPAGEVEVINKVKAAFST
AATAADEAPANDKFTVFVSSFNKAIKETTGGAYAGYKFIPTLEAAVKQAYAASSATAPEV
KYAVFETALKKAISAMSEAQKEAKPAAAISAATTTISASTATPAAPPPPQLGTATPAAVA
GGYKV

>P56166.1 Putative Major pollen allergen Pha a 5.3 precursor (Pha a 5) (Clone 29) [Phalaris aquatica]
MAVQKYTVALFLAMALVAGPAASYAADAGTPPTPATPAVPGAAAGKATTHEQKLIEDINA
AFKWWPASAPPADKYKTFETAFSKANIAGASTKGLDAAYSVVYNTAAGATPEAKYDSFVT
ALTEALRIMAGTLEVHAVKPATEEEVPSAKILRANSRSSTRSSRFKIAATVATPLSHSTA
ANSAPANDKFTVFEGAFNKAIKERHGGPTETYKFIPSLEAAVKQAYGATVARAPEVKYAV
FEAGLTKAITAMSEAQKVAKPVRLSPQPPQVLPLAAGGAATVAAASDSRGGYKV

>P56167.1 Putative Major pollen allergen Pha a 5.4 (Pha a 5) (Clone 5) [Phalaris aquatica]
AKYDAFIAALTEALRVIAGAFEVHAVKPATEEVPAAKIPAGELQIVDKIDAAFKIAATAA
NSAPANDKFTVFEGAFNKAIKERHGGAYETYKFIPSLEASRSKQAYGATVARAPEVKYAV
FEAGLTKAITAMSEAQKVAKPVRSVTAAAAGAATAAGGAATVAASRPTSAGGYKV

>P02221.2 Putative Globin CTT-I/CTT-IA precursor (Erythrocruorin) [Chironomus thummi thummi]
MKFLILALCVAAAMAGPSGDQIAAAKASWNTVKNNQVDILYAVFKANPDIQTAFSQFAGK
DLDSIKGTPDFSKHAGRVVGLFSEVMDLLGNDANTPTILAKAKDFGKSHKSRASPAQLDN
FRKSLVVYLKGATKWDSAVESSWAPVLDFVFSTLKNEL

>P02224.2 Putative Globin CTT-VI precursor [Chironomus thummi thummi]
MKFLVLALCIAAASAAVLTTEQADLVKKTWSTVKFNEVDILYAVFKAYPDIMAKFPQFAG
KDLDSIKDSAAFATHATRIVSFLSEVISLAGSDANIPAIQNLAKELATSHKPRGVSKDQF
TEFRTALFTYLKAHINFDGPTETAWTLALDTTYAMLFSAMDS

>CAA05186.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA05187.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA05188.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAA05190.1 Allergen pollen allergen Betv1 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>AAB82404.1 Allergen Cr-PII [Periplaneta americana]
MKLPIMILAVLGVAFGKSLPNRNLQDDLNDFLALLPVDEITAIVMDYLANDAEVQEAVAY
LQGEEFHKIVFTVEGLQEFGNFVQFLEDHGLDAVGYINRLHSVFGWDPYVPSSKRKHTRR
GVGVDGLIDDIIAILPIDDLKALFQEKLETSPDFKAFYDAVRSPEFQSIVQTLNAMPEYQ
DLLQKLRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDFLALIPTDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIINTIEALPEFANFYNFLKGHGLDVADYINEIHSIIGLPPFVP
PSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLRDKAVDVDHFIELIRSLFGLP

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

ELHGRQIRMAKLLGRDPEQSQEALEDFREFSRAKGLNQEILELAQSETCSPGGQ

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

>AAB86960.1 Putative profilin [Zea mays]
MSWQAYVDEHLMCEIEGQHLSAAAIVGHDGSVWAQSESFPELKPEEVAGIIKDFDEPGTL
APTGLFVGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMSLIIGVYDEPMTPGQCNMVVE
RLGDYLIEQGF

>AAC48287.1 Allergen slow tropomyosin isoform [Homarus americanus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANIRAEKTEEEIRITHKKMQQVENELDQV
QEQLSLANTKLEEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>AAC48288.1 Allergen fast tropomyosin isoform [Homarus americanus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANIRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANTQLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>AAB97141.1 Allergen major allergen protein homolog [Prunus armeniaca]
MGVFTYETEFTSVIPPEKLFKAFILDADNLIPKVAPTAVKGTEILEGDGGVGTIKKVTFG
EGSQYAYVKHRVDGIDKDNLSYSYTLIEGDALSDVIENIAYDIKLVASPDGGSIVKTTSH
YHTKGDVEIKEEQVKAGKEKAAGLFKLVEAYLLANPDAYN

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

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

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

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

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

>AAD13650.1 Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLKEMKEAGQTKAEIQHEVMHYYDQLHGEEKQQATEKLKV

GCKMLLKGIIGEEKVVELRNVKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHHRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYD
ELEGDAKKEATEHLKGGCPEILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTD
EEKKQYIADFGPACKKIYGVHTSRRRR

>AAD13651.1 Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMRYYDQLHGEEKQQATEKLKV
GCKMLLKGIIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHHRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYD
ELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTD
EEKKQYIADFGPACKKIYGVHTSRRRR

>AAD13652.1 Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMHYYDQLHGEEKQQATEKLKV
GCKMLLKGIIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHHRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKELEAKILHYYD
ELEGDAKKEATEQLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTD
EEKKQYIADFGPACKKIYGVHTSRRRR

>AAB93837.1 Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMRYYDQLHGEEKQQATEKLKV
GCKMLLKGIIGEEKVVELRNMKEAGADIQELRQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHHRRRR

>AAB93839.1 Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMHFYDQLHGEEKQQATEKLKV
GCKMLLKGVIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHHRRRR

>AAC67308.1 Putative 22.6 kDa tegumental antigen [Schistosoma japonicum]
MATTEYRLSLMEQFIRAFIEIDKDNNELIDKQELTKYCQQNQMDMKQIDPWIARFDTDKD
GKVSLEEFCRGFGLKVWEVRREKEELKKDKEGKVSTLPLDIQIIAATMSKAKQYNICCKF
KELLDKTSRTGDEVRAVANDLKAFLDSEYGRVWQVIILTGSYWMNFSHEPFLSMQFKYSN
YVCLLWRTPSS

>AAB95638.1 Allergen peroxisomal-like protein [Aspergillus fumigatus]
MSGLKAGDSFPSDVVFSYIPWSEDKGEITACGIPINYNASKEWADKKVILFALPGAFTPV
CSARHVPEYIEKLPEIRAKGVDVVAVLAYNDAYVMSAWGKANQVTGDDILFLSDPDARFS
KSIGWADEEGRTKRYALVIDHGKITYAALEPAKNHLEFSSAETVLKHL

>AAB99797.1 Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVFSVLLLAVVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMYPLRVAGVGE
APLLGRARPRRRAVPGDCCRQFPPVDYSWCRCEAISHMLGGIYRELGAPDVGHPMSEVFR
GCRRGTWSARRRAPGVLQVDIPNGGGGVCYWLARSGY

>CAA05978.1 Allergen prohevein [Hevea brasiliensis]
EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKDSGEGVGGGSASNVLATY
HLYNSQDHGWDLNAASAYCSTWDANKPYSWRSKYGWTAFCGPVGAHGQPSCGKCLSVTNT
GTGAKATVRIVDQCSNGGLDLDVNVFRQLDTDGKGYERGHLTVNYQFVDCGDSFNPLFSV
MKSSVIN

>Q25641.1 Allergen Allergen Cr-PI precursor (Allergen Per a 3) [Periplaneta americana]
MKTALVFAAVVAFVAARFPDHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVGI
PMTSKQTSATTVPPSGEAVHGVLQEGHARPRGEPFSVNYEKHREQAIMLYDLLYFANDYD
TFYKTACWARDRVNEGMFMYSFSIAVFHRDDMQGVMLPPPYEVYPYLFVDHDVIHMAQKY
WMKNAGSGEHHSHVIPVNFTLRTQDHLLAYFTSDVNLNAFNTYYRYYYPSWYNTTLYGHN

IDRRGEQFYYTYKQIYARYFLERLSNDLPDVYPFYYSKPVKSAYNPNLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEKRVEDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMIEGNM
DSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSLEHPETVLRDPVFYQLWKRVDHLFQK
YKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDMSLDMAVYVNNVDQISNVDVQLAV
RLNHKPFTYNIEVSSDKAQDVYVAVFLGPKYDYLGREYDLNDRRHYFVEMDRFPYHVGAG
KTVIERNSHDSNIIAPERDSYRTFYKKVQEAYEGKSQYYVDKGHNYCGYPENLLIPKGKK
GGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDF
YTPNMYFKDVIIFHKKYDEVGVQGH

>CAA11266.1 Putative rAsp f 9 [Aspergillus fumigatus]
KRSFILRSADMYFKYTAAALAAVLPLCSAQTWSKCNPLEKTCPPNKGLAASTYTADFTSA
SALDQWEVTAGKVPVGPQGAEFTVAKQGDAPTIDTDFYFFFGKAEVVMKAAPGTGVVSSI
VLESDDLDEVDWEVLGGDTTQVQTNYFGKGDTTTYDRGTYVPVATPQETFHTYTIDWTKD
AVTWSIDGAVVRTLTYNDAKGGTRFPQTPMRLRLGSWAGGDPSNPKGTIEWAGGLTDYSA
GPYTMYVKSVRIENANPAESYTYSDNSGSWQSIKFDGSVDISSSSSVTSSTTSTASSASS
TS

>CAA75803.1 Putative TSI-1 protein [Solanum lycopersicum (Lycopersicon esculentum)]
MGVNTYTYESTTTISPTRLFKALVLDFDNLVPKLLSQHVKNNETIEGDGGVGSIKQMNFV
EGGPIKYLKHKIHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGCVYKTTTE
YHTKGDHVVSEEEHNVGRRENHEYFQGCRSIPSRESFCLRLNIDEKESGLHVRNYACT

>AAC34312.1 Allergen allergen [Periplaneta americana]
SIISTLNAMPEYQDLLQNLRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDFLALIPTD
QILAIAMDYLANDAEVQELVAYLQSDDFHKIITTIEGLPEFANFYNFLKEHGLDVADFLN
EIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFDEKLETSPDFKALYD
AIRSPEFQSIISTLNAMPEYQDLLQNLRDKGVDVDHFIELIRSLFGLP

>CAA73720.1 Putative Profilin [Mercurialis annua]
MSWQTYVDDHLMCDIDGQGQHLAAASIVGHDGSIWAQSASFPQLKPEEITGIMKDFDEPG
HLAPTGLYIAGTKYMVIQGESGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIEQGM

>CAA76556.1 Allergen Phl p6 allergen [Phleum pratense]
MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDINASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSE
ALHIIAGTPEVHAVKPGA

>CAA76557.1 Allergen Phl p6 allergen [Phleum pratense]
MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDVNASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSE
ALRIIAGTPEVHAVKPGA

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

>CAA04959.1 Allergen rAsp f 4 [Aspergillus fumigatus]
GEVGDTVYATINGVLVSWINEWSGEAKTSDAPVSQATPVSNAVAAAAAASTPEPSSSHSD
SSSSSGVSADWTNTPAEGEYCTDGFGGRTEPSGSGIFYKGNVGKPWGSNIIEVSPENAKK
YKHVAQFVGSDTDPWTVVFWNKIGPDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAW
GAAKGDELPKDQFGGYSCTWGEFDFDSKINHGWSGWDVSAIQAENAHHEVQGMKICNHAG
ELCSIISHGLSKVIDAYTADLAGVDGIGGKVVPGPTRLVVNLDYKE

>CAA06305.1 Allergen Aspf1 allergen [Aspergillus fumigatus]
RLVYNQAKAESNSHHAPLSDGKTGSSYPHWFTNGYDGDGKLIKGRMPIKFGKADCDRPPK
HGKDGMGKDDHYLLEFPTFPDGHDYKFDSKKPKEDPGPARVIYTYPNKVFCGIVAHERGN

QGDLR

>CAA11755.1 Putative profilin [Glycine max]
MSWQAYVDDHLLCGIEGNHLTHAAIIGQDGSVWLQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RLGDYLIDQGY

>CAA11756.1 Putative profilin [Glycine max]
MSWQAYVDDHLLCDIEGNHLTHAAIIGQDGSVWAQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RPGDYLIDQGY

>AAC38996.1 Allergen fast muscle tropomyosin [Panulirus stimpsoni]
MKLEKDNAMDRADTLEQQNKEANIRAEKAEEEVHNLQKRMQQLENDLDQVQESLLKANTQ
LEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAADESERMRKVL
ENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAEERAETGESKF
VELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLQ
KEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>CAA11041.1 Allergen latex allergen [Hevea brasiliensis]
MATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDLDGPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGAAATNPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIATEENLQRLVEIGTRLLEKQESRINLDTGRLES
IPGASTNEAAITKFAKLLSEERKLRQLK

>BAA25899.1 Putative Bd 30K [Glycine max]
MGFLVLLLFSLLGLSSSSSISTHRSILDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNLNYIRDMNANRKSPHSHRLGLNKFADITPQEFSKKYLQAPKDVSQQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGSGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESEGCYNGWHYQSFEWVLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPISVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVDYWIAKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>P81216.1 Putative Dander allergen Equ c 2.0101 [Equus caballus]
SQXPQSETDYSQLSGEWNTIYGAASNIXK

>P81217.1 Putative Dander allergen Equ c 2.0102 [Equus caballus]
XQDPQSETDYSQLSGEWNT

>AAC16525.1 Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPEAEYDAYVATL
SEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDSALKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITATS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>AAC16526.1 Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

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

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPAAAATATATSAVGAATGATTAAAGGYKV

>AAC16528.1 Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAFTAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>CAA75312.1 Allergen profilin [Hevea brasiliensis]
MSWQTYVDERLMCEIEGNHLTAAAIIGQDGSVWAQSSNFPQFKSEEITAIMSDFDEPGTL
APTGLHLGGTKYMVIQGEAGAVIRGKKGPGGVTVRKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLLEQGM

>CAB01591.1 Putative endochitinase [Persea americana]
MVYCTASLPLLLLLLVGLLAGEAFAEQCGRQAGGALCPGGLCCSQFGWCGSTSDYCGPTC
QSQCGGVTPSPGGGVASLISQSVFNQMLKHRNDAACQAKGFYTYNAFIAAANSFNGFASV
GDTATRKREIAAFLAQTSHETTGGWATAPDGPYAWGYCFLKEQGNPPDYCVPTAQWPCAP
GKKYYGRGPIQISYNYNYGPAGRAIGYDLINNPDAVATDPVISFKTALWFWMTPQSPKPS
CHNVITGRWTPSAADRAAGRLPGYGVITNIINGGIECGKGFNDKVADRIGFYKRYCDLLG
VSYGSNLDCYNQRSFGVSTNPLAASS

>AAC24001.1 Allergen isoflavone reductase related protein [Pyrus communis]
MASKSQILFIGGTGYIGKFIVEASAKAGYPTYVLVREASLSDPAKSKVIENFKALGVNFV
LGDLYDHESLVKAIKQVDVVISTVGHGQLADQGKIIAAIKEAGNVKRFFPSEFGNDVDRS
HAVEPAKSAFETKAKIRRAVEAEGIPYTYVSSNFFAGYFLPTLNQPGASSAPRDKVVILG
DGNPKAIFNKEDDIGTYTIRAVDDPRTLNKVLYIRPPANTISFNELVSLWEKKIGKTLER
IYVPEEQLLKNIQEAAVPLNVILSISHAVFVKGDHTNFEIEPSFGVEATALYPDVKYTTV
DEYLNQFV

>CAA54818.1 Putative major allergen [Ligustrum vulgare]
EDVPQPPVSQFYIQGQVYCDTCRARFITELSEFIPGAGVRLQCKDGENGKVTFTEVGYTK
AEGLYNMLIERDHKNEFCEITLISSSRKDCDEIPTEGWVKPSLKFVLNTVNGTTRTINPL
GFLKKEVLPKCPQVFNKLGMYPPNM

>CAA54819.1 Putative major allergen [Ligustrum vulgare]
EDVPQPPVSQFYIQGQVYCDTCRARFITELSEFIPGAGVRLQCKDGENGKITFTEVGYTR
AEGLYSMLIERDHKNEFCEITLLSSSRKDCDEIPIEGWVKPSLKFMLNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

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

>CAA11042.1 Allergen latex allergen [Hevea brasiliensis]
MATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDLDGPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPIYQAKDIKDFYLENCPKIFPKESRDTYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIPAFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAAANPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>AAC25994.1 Allergen group V allergen Phl p 5.0103 precursor [Phleum pratense]
MAVHQYTVALFLAVALVAGPAGSYAADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKAT
TEEQKLIEKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAEGLSGEPKGAAESS
SKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATVSEALRIIAGTLEVHAVKPAAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAAVGAAT
GAATAATGGYKV

>AAC25995.1 Allergen group V allergen Phl p 5.0203 precursor [Phleum pratense]
SVKRSNGSAEVHRGAVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIED
INVGFKAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGA
TPEAKFDSFVASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAA
TAAATAPADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKY
AVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>AAC25997.1 Allergen group V allergen Phl p 5.0206 precursor [Phleum pratense]
MAVQKYTVALFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEDPAWPKIPAGELQIIDKIDAAFKVAATAAAT
APADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEA
ALTKAITAMSEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>AAC25998.1 Allergen group V allergen Phl p 5.0207 precursor [Phleum pratense]
MAVQKYTVALFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVSYKAAVGATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAAT
APADTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEAALT
KAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

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

>CAA76841.1 Allergen albumin [Canis familiaris]
MDTYKSEIAHRYNDLGEEHFRGLVLVAFSQYLQQCPFEDHVKLAKEVTEFAKACAAEESG
ANCDKSLHTLFGDKLCTVASLRDKYGDMADCCEKQEPDRNECFLAHKDDNPGFPPLVAPE
PDRLCAAFQDNEQLFLGKYLYEIARRHPYFYAPELLYYAQQYKGVFAECCQAADKAACLG
PKTEALREKVLLSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLT
KVHKECCHGDLLECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDELP
GDLPSLAADFVEDKEVCKNYQEAKDAFLGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEK
CCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFEKLGEYGFQNALLVRYTKKAPQVS
TPTLVEVSRKLGKVGTKCCKKPESERMSCADDFLSVVLNRLCVLHEKTPVSERVTKCCSE
SLVNRRPCFSGLEVDETYVPKEFNAETFTFHADLCTLPEAEKQVKKQTALVELLKHKPKA
TDEQLKTVMGDFGAFVEKCCAAENKEGCFSEEGPKLVAAAQAALV

>CAA76847.1 Allergen bovine serum albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRGVFRRDTHKSEIAHRFKDLGEEHFKGLVLIAFSQYLQQCPF
DEHVKLVNELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCEKQEP
ERNECFLSHKDDSPDLPKLKPDPNTLCDEFKADEKKFWGKYLYEIARRHPYFYAPELLYY
ANKYNGVFQECCQAEDKGACLLPKIETMREKVLTSSARQRLRCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKE
CCDKPLLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLEECCAKDDPHACYSTVFDKLKHLVDEPQNLIKQNCDQFEK

LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESERMPCTEDYLSLIL
NRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALTPDETYVPKAFDEKLFTFHADICTLP
DTEKQIKKQTALVELLKHKPKATEEQLKTVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQTALA

>AAD05375.1 Allergen calcium-binding pollen allergen [Olea europaea]
MADDPQEVAEHERIFKRFDANGDGKISSSELGETLKTLGSVTPEEIQRMMAEIDTDGDGF
ISFEEFTVFARANRGLVKDVAKIF

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

>CAA76887.1 Allergen p7 protein [Phleum pratense]
MADDMERIFKRFDTNGDGKISLSELTDALRTLGSTSADEVQRMMAEIDTDGDGFIDFNEF
ISFCNANPGLMKDVAKVF

>BAA32435.1 Putative MF1 [Malassezia furfur]
MPGDPTATAKGNEIPDTLMGYIPWTPELDSGEVCGIPTTFKTRDEWKGKKVVIVSIPGAY
TPICHQQHIPPLVKRVDELKAKGVDAVYVIASNDPFVMAAWGNFNNAKDKVVFATDIDLA
FSKALGATIDLSAKHFGERTARYALIIDDNKIVDFASDEGDTGKLQNASIDTILTKV

>BAA32436.1 Putative MF2 [Malassezia furfur]
EIGSTIPNATFAYVPYSPELEDHKVCGMPTSFQSHERWKGKKVVIVAVPGAFTPTCTANH
VPPYVEKIQELKSKGVDEVVVISANDPFVLSAWGITEHAKDNLTFAQDVNCEFSKHFNAT
LDLSSKGMGLRTARYALIANDLKVEYFGIDEGEPKQSSAATVLSKL

>CAA75506.1 Putative profilin [Helianthus annuus]
MSWQAYVDEHLMCDIEGTGQHLTSAAILGLDGTVWAQSAKFPQFKPEEMKGIIKEFDEAG
TLAPTGMFIAGAKYMVLQGEPGAVIRGKKGAGGICIKKTGQAMIMGIYDEPVAPGQCNMV
VERLGDYLLEQGM

>AAC36740.1 Putative thaumatin-like protein precursor Mdtl1 [Malus
domestica]
MMKSQVAPRPTLAILFFFSGAHAAKITFTNNCPNTVWPGTLTGDQKPQLSLTGFELASKA
SRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIAA
NGGQDYYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNKVCPAPLQVKAADGSVISCK
SACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSYAYDDKNSTFTCSGGPDYV
ITFCP

>AAC61869.1 Putative tropomyosin [Crassostrea virginica]
RNRKVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAEARLE
AAEAKVLELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRATEAER
TVSKLQKEVDRLEDELLAEKERYKAISDELDQTFAELAGY

>AAC63045.1 Allergen glycinin [Arachis hypogaea]
RQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNNQEFECAGVALSRLVLRRNALRRP
FYSNAPQEIFIQQGRGYFGLIFPGCPRHYEEPHTQGRRSQSQRPPRRLQGEDQSQQQRDS
HQKVHRFDEGDLIAVPTGVAFWLYNDHDTDVVAVSLTDTNNNDNQLDQFPRRFNLAGNTE
QEFLRYQQQSRQSRRRSLPYSPYSPQSQPRQEEREFSPRGQHSRRERAGQEEENEGGNIF
SGFTPEFLEQAFQVDDRQIVQNLRGETESEEEGAIVTVRGGLRILSPDRKRRADEEEEYD
EDEYEYDEEDRRRGRGSRGRGNGIEETICTASAKKNIGRNRSPDIYNPQAGSLKTANDLN
LLILRWLGPSAEYGNLYRNALFVAHYNTNAHSIIYRLRGRAHVQVVDSNGNRVYDEELQE
GHVLVVPQNFAVAGKSQSENFEYVAFKTDSRPSIANLAGENSVIDNLPEEVVANSYGLQR
EQARQLKNNNPFKFFVPPSQQSPRAVA

>CAA83015.1 Putative metalloprotease (MEP) [Aspergillus fumigatus]
MRGLLLAGALALPASVFAHPAHQSYGLNRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPQSYVEVATQHVKMIAPDATFRVVDDHYVGDNGVAHVHFRQTANGLDIDNADFNVNV
GKDGKVFSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEK
ESYVFKGVSGTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSN
PSGGPSYLNNYRPSSSSLSFKYPYSVSSSPPSSYIDASIIQLFYTANIYHDLLYTLGFTE
KAGNFEYNTNGQGGLGNDYVILNAQDGSGTNNANFATPPDGQPGRMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALESGGMGEGWSDFMATAIRLKPGDKRSTD
YTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASMLYEVLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFAKRGLGAGAKYSSRNRVGSTEVPSGVC

>AAC82355.1 Allergen small rubber particle protein [Hevea brasiliensis]
MAEEVEEERLKYLDFVRAAGVYAVDSFSTLYLYAKDISGPLKPGVDTIENVVKTVVTPVY
YIPLEAVKFVDKTVDVSVTSLDGVVPPVIKQVSAQTYSVAQDAPRIVLDVASSVFNTGVQ
EGAKALYANLEPKAEQYAVITWRALNKLPLVPQVANVVVPTAVYFSEKYNDVVRGTTEQG
YRVSSYLPLLPTEKITKVFGDEAS

>CAA10140.1 Putative major group I allergen Hol l 1 [Holcus lanatus]
MASSSLVLLVVALFAVFLGTAHGIAKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCGSCFEIKCTKPESCSGEPIVVHITDDNE
EPIAAYHLDLSGKAFGAMAKKGEEQKLRSAGELELKFRRVKCEYPKGTKVTFHVEKGSNP
NYLALLVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRVDTPDKLTGPFTVRYTTEG
GTKVEAEDVIPEGWKADTAYESK

>CAA81613.1 Allergen pollen allergen Phl pI [Phleum pratense]
MASSSSVLLVVALFAVFLGSAHGIPKVPPGPNITATYGDKWLDAKSTWYGKPTAAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCGSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAAYHFDLSGIAFGSMAKKGDEQKLRSAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFVAGDGDVVAVDIKEKGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEG
GTKGEAKDVIPEGWKADTAYESK

>P81496.1 Putative Allergen C-C [Triticum aestivum]
SFREQCVPGREITYECLNACAEYAVRQ

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

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

>AAC82349.1 Putative group 2 allergen Eur m 2 0101 [Euroglyphus maynei]
MYKILCLSLLVAAVAADQVDIKDCANHEIKKVMVPGCKGSEPCVIHRGTAFQLEAVFDAN
QNSNAAKIEIKATIDGVEIDVPGIDNNLCHFMKCPLVKGQEYDIKYTWNVPRIAPKSENV
VVTVKLLGDNGVLACAIATHAKIRD

>AAC82350.1 Putative group 2 allergen Eur m 2 0102 [Euroglyphus maynei]
VAAVAADQVDVKDCANHEIKKVMVPGCKGSEPCVIHRGTAFQLEAVFDANQNSNAAKIEI
KATIDGVEIDVPGIDNNLCHFMKCPLVKGQEYDIKYTWNVPRIAPKSENVVVTVKLLGDN
GVLACAIATHAKIRD

>AAC82351.1 Putative group 1 allergen Eur m 1 0101 precursor [Euroglyphus maynei]

MKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKTYATPEKEEVARKNFLESLKYVESN
KGAINHLSDLSLDEFKNQFLMNANAFEQLKTQFDLNAETYACSINSVSLPSELDLRSLRT
VTPIRMQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDTIPRGIE
YIQQNGVVQEHYYPYVAREQSCHRPNAQRYGLKNYCQISPPDSNKIRQALTQTHTAVAVI
IGIKDLNAFRHYDGRTIMQHDNGYQPNYHAVNIVGYGNTQGVDYWIVRNSWDTTWGDNGY
GYFAANINLMMIEQYPYVVML

>AAC82352.1 Putative group 1 allergen Eur m 1 0102 [Euroglyphus maynei]
KHLSTIMKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKSYATPEKEEVARKNFLESL
KYVESNKGAINHLSDLSLDEFKNQFLMNANAFEQLKTQFDLNAETYACSINSVSLPSELD
LRSLRTVTPIRNQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDT
IPRGIEYIQQNGVVQEHYYPYVAREQSCHRPNAQRYGLKNYCQISPPDSNKIRQALTQTH
TAVAVIIGIKDLNAFRHYDGRTIMQHDNGYQPNYHAVNIVGYGNTQGVDYWIVRNSWDTT
WGDNGYGYFAANINLMMIEQYPYVVIL

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

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

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

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

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

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

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

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

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

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

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

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

>CAA65313.1 Putative alpha purothionin [Triticum aestivum]
MGSKGFKGVIVCLLILGLVLEQLQVEGKSCCRSTLGRNCYNLCRARGAQKLCAGVCRCKI
SSGLSCPKGFPKLALESNSDEPDTIEYCNLGCRSSVCDYMVNAAADDEEMKLYVENCADA
CVSFCNGDAGLPSLDAY

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

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

>CAA10520.1 Putative group I pollen allergen [Poa pratensis]
MASSSSVLLVVALFAVFLGTAHGIAKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDVDKAPFSGMTGCGNTPIFKSGRGCGSCFEIKCTKPESCSGEPVLVHITDDNE
EPIAAYHFDLSGKAFGAMAKKGEEQKLRSAGELELKFRRVKCEYPEGTKVTFHVEKGSNP
NYLALLVKYVTGDGDVVAVDIKEKGKDKWIELKESWGSIWRVDTPDKLTGPFTVRYTTEG
GTKGEAEDVIPEGWKADTAYASK

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

>CAA09883.1 Putative allergen [Malassezia sympodialis]
MSATTGSQAPNTTFTYIPWAPELDSGKVCGVPQTFKAHDRWKGKKVVVVAIPGAFTPACH
QNHIPGFVEKINELKAKGVDEVVVIAVNDAFVMSGWGVTVGGKDQIVYACDNDLAFSKAL
GGTLDLTSGGMGVRTARYAVVLDDLKITYFGMDEGNMGAPEKSSVDAVLAQL

>CAA09884.1 Putative allergen [Malassezia sympodialis]
MSNVFFDITKNGAPLGTIKFKLFDDVVPKTAANFRALCTGEKGFGYAGSHFHRVIPDFML
QGGDFTAGNGTGGKSIYGAKFADENFQLKHNKPGLLSMANAGPNTNGSQFFITTVVTSWL
DGKHVVFGEVIDGMNVVKAIEAEGSGSGKPRSRIEIAKCGVC

>CAA09885.1 Putative allergen [Malassezia sympodialis]
AVSASPTPSKHNLYCYAQGKDLFEFHINDTVTKDVCKSLNSGKYHNMNNEKYCSVADYDV
KWFKERCQSHPTDVKTTKWIAGTDLKIEMDPKEPYELYCFNYYTTFGNLPDAGAKELDDD
ATKKACSALKSGKYQSDPKKKSCRMDKKDIDQFKEQCSQYQPSDRPPYGDWSAGTSLNVV

LNLKKNA

>AAD03608.1 Putative pollen major allergen 1-1 [Juniperus ashei]
MASPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
FYTVTSTDDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHSLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESPSACANWVWRSTRDAFINGAYFVSSGKTEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

>BAA74451.1 Putative cytokinin-specific binding protein [Vigna radiata]
MVKEFNTQTELSVRLEALWAVLSKDFITVVPKVLPHIVKDVQLIEGDGGVGTILIFNFLP
EVSPSYQREEITEFDESSHEIGLQVIEGGYLNQGLSYYKTTFKLSEIEEDKTLVNVKISY
DHDSDIEEKVTPTKTSQSTLMYLRRLERYLSNGSA

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

>AAD13106.1 Putative beta-xylosidase [Aspergillus niger]
MAHSMSRPVAATAAALLALALPQALAQANTSYVDYNVEANPDLYPLCIETIPLSFPDCQN
GPLRSHLICDESATPYDRAASLISLFTLDELIANTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGSYNWATSFPQPILTTAALNRTLIHQIASIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAVYAYEYITGIQGPDPDSNLKLAATAKHYAGYDIENW
HNHSRLGNDMNITQQDLSEYYTPQFHVAARDAKVHSVMCAYNAVDGVPACADSYFLQTLL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAAEAILAGTDIDCGTTYQWHLNESI
TAGDLSRDDIEKGVIRLYTTLVQAGYFDSNTTKANNPYRDLTWSDVLETDAWNISYQAAT
QGIVLLKNSNNVLPLTEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAARSADVIIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASSAGSKPLIVLQMGGGQVDSSSLKNNTNVTALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEEFPATDMNLRPEGDNPGQTYKWYTGEAVYEFGHGLFYTTFA
ESSSNTTTKEVKLNIQDILSQTHEELASITQLPVLNFTANIKNTGKLESDYTAMVFANTS
DAGPAPYPVKWLVGWDRLGDVKVGETRELRVPVEVGSFARVNEDGDWVLFPGTFELALNL
ERKVRVKVVLEGEEEVVLKWPGKE

>AAD13531.1 Allergen major allergen Bla g 1.02 [Blattella germanica]
NAIEFLNNIHDLLGIPHIPVTARKHHRRGVGITGLIDDIIAILPVDDLYALFQEKLETSP
EFKALYDAIRSPEFQSIVGTLEAMPEYQNLIQKLKDKGVDVDHIIELIHQIFNIVRDTRG
LPEDLQDFLALIPTDQVLAIAADYLANDAEVKAAVEYLKSDEFETIVVTVDSLPEFKNFL
NFLQTNGLNAIEFLNNIHDLLGIPHIPVTGRKHLRRGVGITGLIDDIIAILPVDDLYALF
QEKLETSPEFKALYDAIRSPEFQSIVETLKAMPEYQSLIQKLKDKGVDVDHIIELIHQIF
NIVRDTRGLPEDLQDFLALIPIDQILAIAADYLANDAEVQAAVEYLKSDEFETIVVTVDS
LPEFKNFLNFLQTNGLNAIEFINNIHDLLGIPHIPATGRKHVRRGVGINGLIDDVIAILP
VDELYALFQEKLESSPEFKALYDAIRSPEFQSIVQTLKAMPEYQDLIQRLKDKGVDVDHF
IELIKKLFGLSH

>AAD13533.1 Allergen major allergen Per a 1.0101 [Periplaneta americana]
EFQSIISTLNAMPEYQELLQNLRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDFLALI
PTDQILAIAMDYLANDAEVQELVAYLQSDDFHKIITTIEGLPEFANFYNFLKEHGLDVAD
FLNEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETSPDFKA
LYDAIRSPEFQSIISTLNAMPEYQDLLQNLRDKGVDVDHFIELIRSLFGLP

>BAA74953.1 Putative glycinin [Glycine max]
MGKPFTLSLSSLCLLLLSSACFAISSSKLNECQLNNLNALEPDHRVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSYSPYPRMIIIAQGKGALGVAIPGCPETFEEPQEQSN

RRGSRSQKQQLQDSHQKIRHFNEGDVLVIPPGVPYWTYNTGDEPVVAISLLDTSNFNNQL
DQTPRVFYLAGNPDIEYPETMQQQQQQKSHGGRKQGQHQQEEEEEGGSVLSGFSKHFLAQ
SFNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDKPRPSRPSQGKREQDQDQDEDEDEDEDQPRKSREWRSKKTQ
PRRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPAL
RQFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQGKVRVVNCQGNAVFDGELRRGQLL
VVPQNFVVAEQAGEQGFEYIVFKTHHNAVTSYLKDVFRAIPSEVLAHSYNLRQSQVSELK
YEGNWGPLVNPESQQGSPRVKVA

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

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

>CAA04827.1 Allergen pollen allergen, Betv1 [Betula pendula]
GVFNYETEATSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GIPFKYVKDRVDEVDHANFKYSYSLIEGGPVGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

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

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

>AAD19606.1 Allergen tropomyosin [Periplaneta americana]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAEEEARSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFICDDLDMTFTELIGN

>AAD20386.1 Allergen pollen allergen Lol p VA precursor; major allergen
[Lolium perenne]
MAVQKYTVALFLAVALVAGPAASYAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKAAVAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTAYDVAY
KAAEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFIPSLEAAVKQAYAATVAA
APEVKYAVFEAALTKAITAMTQAQKAGKPAAAAATGAATVATGAATAAAGAATAAAGGYK
A

>CAB38044.1 Putative tropomyosin [Helix aspersa]
MDAIKKKMLAMKMEKENALDRAEQVEQKLRDCECNKNKVEEDLNNLQKKFAILENDFDSI
NEQLLDANTKLEASEKKNAEIESETAGLQRRIQLLEEDLERSEERLQSATEKLEEASKAA
DESERGRKVLESRSLADDERLDGLEAQLKEAKYIAEDAERKFDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAS
EAERTVSKLQKEVDRLEDELLAEKERYKATSDELDSTFAELAGY

>CAB38086.1 Allergen tropomyosin [Periplaneta americana]

MDAIKKKMQAMKLEKDNAMDCALLCEQQARDANLRAEKAEEEARSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAV
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFICDDLDMTFTELAGY

>CAB39376.1 Putative Cop c1 allergen [Coprinus comatus]
RFLPSSSHLNPQHLPWLVHPAPVLLLPVLPQLKPVAHPLLLLPLDTTTLHMPPLLLQLQL
PPLLSQGNPACSPKWLQLLVP

>AAD13530.2 Allergen major allergen Bla g 1.0101 [Blattella germanica]
NLLEKLREKGVDVDKIIELIRALFGLTLNAKASRNLQDDLQDFLALIPVDQIIAIATDYL
ANDAEVQAAVAYLQSDEFETIVVALDALPELQNFLNFLEANGLNAIDFLNGIHDLLGIPH
IPVSGRKYHIRRGVGITGLIDDVLAILPIEDLKALFNEKLETSPDFLALYNAIRSPEFQS
IVQTLNAMPEYQNLLQKLREKGVDVDKIIELIRALFGLTLNGKASRNLQDDLQDFLALIP
VDQIIAIATDYLANDAEVQAAVAYLQSDEFETIVVTLDALPELQNFLNFLEANGLNAIDF
LNGIHDLLGIPHIPVSGRKYHIRRGVGITGLIDDVLAILPLDDLKALFNEKLETSPDFLA
LYNAIKSPEFQSIVQTLNAMPEYQNLLEKLREKGVDVDKIIELIRALFGLTH

>AAD25926.1 Allergen Pen c 1; alkaline serine protease [Penicillium citrinum]
MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFNTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDESTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSYTYDSTAGEGVVFYGVDTGIDISHSDFGGRAKWGTNVVDN
DNTDGNGHGTHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNMSLGGEFSKAVNDAAANVVKSGIFLSVAAGNEAENASNSSPASAAEVCTIA
ASTSTDGSASFTNFGSVVDLYAPGQSITAAYPGGGSKTLSGTSMAAPHVAGVAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>AAD25927.1 Putative major allergenic protein Mal f4 [Malassezia furfur]
MFARAALRNSVRAPASARYFSQTAAANRKVAVLGASGGIGQPLSLLMKLNPKVTELRLYD
IRLAPGVAADLSHINTPAVTSGYAQDDLEGAVDGAEIVLIPAGMPRKPGMTRDDLFNSNA
SIVRDLAKVVAKVAPKAYIGVISNPVNSTVPIVAEVFKKAGVYDPKRLFGVTTLDTTRAA
TFLSGIAGSDPQTTNVPVIGGHSGVTIVPLISQAAQGDKVQAGEQYDKLVHRIQFGGDEV
VKAKDGAGSATLSMAYAAAVFTEGLLKGLDGEAVTQCTFVESPLFKDQVDFFASPVEFGP
EGVKNIPALPKLTAEEQKLLDACLPDLAKNIKKGVAWAAENP

>AAD25995.1 Putative alkaline serine protease Pen c2 [Penicillium citrinum]
MKGFLGLALLPLLTAASPVSVESIHNGAAPIISSMNSQEIPDSYIVVFKKHVDTSAAAAH
HSWVQDIHSAVNGRMELKKRGLFGFDTDAFLGVKHSFHVAGSLMGYAGHFHEDVIEQVRR
HPDVDYIEKDSEVHHFDSPSVEKNAPWGLARISHRDSLSFGTFNKYLYAEDGGEGVDAYV
IDTGTNTDHVDFEGRASWGKTIPQGDEDVDGNGHGTHCSGTIAGKKYGVAKKANVYAVKV
LRSNGSGTMSDVVKGVEWAAEAHIKKSKAAKDGKAKGFKGSVANMSLGGGSSRTLDLAVN
AAVDAGMHFAVAAGNDNADACNYSPAAAEKAVTVGASTLADERAYFSNYGKCTDIFAPGL
NILSTWIGSKYAVNTISGTSMASPHIAGLLAYYVSLQPSDDSAFAVEKITPKKLKEALIT
VATSGALTDIPSDTPNLLAWNGGGSSNYTDIVAQGGY

>AAD26546.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>AAD26547.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESHLKGHPDAYN

>AAD26548.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLMASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>AAD26552.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>AAD26553.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVCTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>AAD26554.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIENISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>AAD26555.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEYTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKAKAHGLFKLIESYLKGHPDAYN

>AAD26558.1 Allergen major allergen mal d 1 [Malus x domestica]
MGVYTFENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVMAGKEKAHGLFKLIESYLKGHPDAYN

>AAD26560.1 Allergen isoallergen bet v 1 b1 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLKAVESYLLAHSDAYN

>AAD26561.1 Allergen isoallergen Bet v 1 b2 [Betula pendula]
MGVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGPILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYPLAHSDAYN

>AAD26562.1 Allergen isoallergen bet v 1 b3 [Betula pendula]
MGVFNYETEATSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGIPFKYVKDRVDEVDHANFKYSYSLIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQIKASKEMGETLLRAVESYLLAHSDAYN

>AAD29409.1 Allergen profilin [Apium graveolens]
MSWQAYVDDHLMCEVEGNPGQTLTAAAIIGHDGSVWAQSSTFPQIKPEEIAGIMKDFDEP
GHLAPTGLYLGGAKYMVIQGEPNAVIRGKKGSGGVTIKKTGQALVFGVYDEPVTPGQCNV
IVERLGDYLIDQGL

>AAD29410.1 Allergen profilin [Pyrus communis]
MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEGGAVIRGKKGSGGVTVKKTSQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>AAD29411.1 Allergen profilin [Prunus avium]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFKPEEIAAILKDLDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE

RLGDYLIEQGL

>AAD29412.1 Allergen profilin [Malus x domestica]
MSWQAYVDDRLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEGGAVIRGKKGSGGVTVKKTGQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>AAD29413.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHNGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGVVIRGKKGPGGVTVKKSTMALLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>AAD29414.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTPGQCNIVVE
RLGDYLIEQGL

>AAD29671.1 Allergen major allergen Mal d 1 [Malus x domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>CAB42886.1 Allergen polygalacturonase [Phleum pratense]
GKKEEKKEEKKESGDAASGADGTYDITKLGAKPDGKTDCTKEVEEAWASACGGTGKNTIV
IPKGDFLTGPLNFTGPCKGDSVTIKLDGNLLSSNDLAKYKANWIEIMRIKKLTITGKGTL
DGQGKAVWGKNSCAKNYNCKILPNTLVLDFCDDALIEGITLLNAKFFHMNIYECKGVTVK
DVTITAPGDSPNTDGIHIGDSSKVTITDTTIGTGDDCISIGPGSTGLNITGVTCGPGHGI
SVGSLGRYKDEKDVTDITVKNCVLKKSTNGLRIKSYEDAKSPLTASKLTYENVKMEDVGY
PIIIDQKYCPNKICTSKGDSARVTVKDVTFRNITGTSSTPEAVSLLCSDKQPCNGVTMND
VKIEYSGTNNKTMAVCTNAKVTAKGVSEANTCAA

>CAB42887.1 Allergen allergen 5; antigen 5 [Vespula vulgaris]
NNYCKIKCLKGGVHTACKYGSLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWNDELAYIAQVWANQCEYGHDTCRDVAKYQVGQNVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGNNFLKTGHYTQMVWANTKEVGCGSIKYIQEKW
HKHYLVCNYGPSGNFKNEELYQTK

>CAB44442.1 Allergen PPIase [Aspergillus fumigatus]
FHQTPSAMSQVFFDVEYAPVGTAETKVGRIVFNLFDKDVPKTAKNFRELCKRPAGEGYRE
STFHRIIPNFMIQGGDFTRGNGTGGRSIYGDKFADENFSRKHDKKGILSMANAGPNTNGS
QFFITTAVTSWLDGKHVVFGEVADEKSYSVVKEIEALGSSSGSVRSNTRPKIVNCGEL

>AAD38942.1 Putative alpha-amylase [Dermatophagoides pteronyssinus]
KYHNPHFIGNRSVITHLMEWKYDDIGDECERFLGPYGYGGVQVSPVNEHAILDRRPWYER
YQPVSYDIRTRSGDEQQFRRMVKRCNKAGVRIYVDIVLNHMTGAQSGKGTNGHHYDGNTL
QYPGVPFGPNDFHGHESCPTQDLEIHDYTNPKEARNCRLSGLRDLKQQSEYVRQKQVDFL
NHLIDIGVAGFRSDASTHQWPDDLRSIYSRLHNLNKEFFPENSQPFIYHETIYYGGNGIN
SNEYTSLGRIIEFRFYKEITNVFRGNNPLHWLKNFGTEWGLVPSGDALVMIDSHDLRVGH
TGKLGFNINCFEGRLLKAATAFMLAWNYGVPRVMSSYFWNQIIKDGKDVNDWVGPPSDKN
GNILSVHPNPDMTCNHEWICEHRWREIYNMVKFRMIAGQEPVHNWWDNGDYQIAFSRGNR
AFIAINLQKNQQNLQQKLHTGLPAGTYCDIISGNLIDNKCTGKSIHVDKNGQADVYVGHD
EFDAFVAYHIGARIVS

>AAD42074.1 Putative peroxisomal membrane protein [Penicillium citrinum]
MSLKAGDSFPEGVTFSYIPWAEDASEITSCGIPINYNASKEFANKKVVLFALPGAFTPVC
SANHVPEYIQKLPELRAKGVDQVAVLAYNDAYVMSAWGKANGVTGDDILFLSDPEAKFSK
SIGWADEEGRTYRYVLVIDNGKIIYAAKEAAKNSLELSRADHVLKQL

>AAD42942.1 Putative 15 kDa oleosin [Sesamum indicum]
MAEHYGQQQQTRAPHLQLQPRAQRVVKAATAVTAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLSWIYRYLTGKHPPGADQLESAKTKL
ASKAREMKDRAEQFSQQPVAGSQTS

>AAD42943.1 Putative 2S albumin precursor [Sesamum indicum]
MARFTIVLAVLFAAALVSASAHKTVVTTSVAEEGEEENQRGCEWESRQCQMRHCMQWMRS
MRGQYEESFLRSAEANQGQFEHFRECCNELRDVKSHCRCEALRCMMRQMQQEYGMEQEMQ
QMQQMMQYLPRMCGMSYPTECRMRPIFA

>AAD42944.1 Allergen 11S globulin precursor [Sesamum indicum]
MVAFKFLLALSLSLLVSAAIAQTREPRLTQGQQCRFQRISGAQPSLRIQSEGGTTELWDE
RQEQFQCAGIVAMRSTIRPNGLSLPNYHPSPRLVYIERGQGLISIMVPGCAETYQVHRSQ
RTMERTEASEQQDRGSVRDLHQKVHRLRQGDIVAIPSGAAHWCYNDGSEDLVAVSINDVN
HLSNQLDQKFRAFYLAGGVPRSGEQEQQARQTFHNIFRAFDAELLSEAFNVPQETIRRMQ
SEEEERGLIVMARERMTFVRPDEEEGEQEHRGRQLDNGLEETFCTMKFRTNVESRREADI
FSRQAGRVHVVDRNKLPILKYMDLSAEKGNLYSNALVSPDWSMTGHTIVYVTRGDAQVQV
VDHNGQALMNDRVNQGEMFVVPQYYTSTARAGNNGFEWVAFKTTGSPMRSPLAGYTSVIR
AMPLQVITNSYQISPNQAQALKMNRGSQSFLLSPGGRRS

>AAC15474.2 Putative pollen allergen Jun o 4 [Juniperus oxycedrus]
MDEVPSSDGSKSACSGEVVMEQSVHELEEVFKKFDANGDGKISGSELADILRSLGSDVGE
AEVKAMMEEADADGDGYVSLQEFVDLNNKGASVKDLKNAFKVFDRDCNGSISAAELCHTL
ESVGEPCTIEESKNIIHNVDKNGDGLISVEEFQTMMTSEMTDKSK

>AAD46493.1 Allergen L3NieAg.01 [Strongyloides stercoralis]
NSARDENGKLIYTYNGNDYDTKEAMEDAIQRDYPDKIFTFGGDNNNGKKRKIDISKWKGN
NTFSNKIFDEIWEGYNYDNDKAKNFKVMKTKLFNEQNKYRIAHGAKKLIKSKDLEKKAQA
YAEVIARLGRLEHDPKNRIEGTGENLAYGTTFIGHLAVKGWYDEIALYNFKKPGFSPATG
HFTQLVWKGTTHAGFGVVEKGDRVYVVXKYSPPGNYPRQFXANVLQRKQ

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

>AAD47382.1 Allergen glycinin [Arachis hypogaea]
MAKLLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR
RYQSQRPPRRLQEEDQSQQQQDSHQKVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRQSRRRSLPYSPYSPHSRPRREEREFR
PRGQHSRRERAGQEEEDEGGNIFSGFTPEFLEQAFQVDDRQIVQNLWGENESEEEGAIVT
VRGGLRILSPDGTRGADEEEEYDEDQYEYHEQDGRRGRGSRGGGNGIEETICTACVKKNI
GGNRSPHIYDPQRWFTQNCHDLNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVDSNGNRVYDEELQEGHVLVVPQNFAVAGKSQSENFEYVAFKTDSRPSIANF
AGENSFIDNLPEEVVANSYGLPREQARQLKNNNPFKFFVPPFQQSPRAVA

>AAD48405.1 Allergen major allergen Cor a 1.0401 [Corylus avellana]
MGVFCYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEEIKAGKEKAAGLFKAVEAYLLAHPDAYC

>CAB52710.1 Putative serpin [Triticum aestivum]
MATTLATDVRLSIAHQTRFGFRLASTISSNPESTANNVAFSPVSLHVALSLITAGAGGAT
RDQLVATLGEGEAERLHALAEQVVQFVLADASYADSPRVTFANGVFVDASLPLKPSFQEL
AVCKYKAEAQSVDFQTKAAEVTAQVNSWVEKVTTGLIKDILPAGSISNTTRLVLGNALYF
KGAWTDQFDSRVTKSDYFYLLDGSSIQTPFMYSSEEQYISSSDGLKVLKLPYKQGGDKRQ
FSMYILLPEAPSGIWSLAEKLSAEPELLERHIPRQKVALRQFKLPKFKISFGIEASDLLK

HLGLQLPFSDEADLSEMVDSPMPQGLRISSVFHKTFVEVNETGTEAAAATIAKAVLLSAS
PPSDMDFIADHPFLFLIREDTSGVVLFIGHVVNPLRSL

>CAB53458.1 Putative MnSOD [Hevea brasiliensis]
QTFSLPDLPYDYGALEPAISGEIMQLHHQKHHQTYITNYNKALEQLNDAIEKGDSAAVVK
LQSAIKFNGGGHVNHSIFWKNLAPVREGGGELPHGSLGWAIDADFGSLEKLIQLMNAEGV
ALQGSGWVWLALDKELKKLVVETTANQDPLVTKGPTLVPLLGIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>CAA55067.2 Putative minor allergen, ribosomal protein P2 [Davidiella tassiana]
MKYLAAFLLLGLAGNSSPSAEDIKTVLSSVGIDADEERLSSLLKELEGKDINELISSGSE
KLASVPSGGAGAASAGGAAAAGGAAEAAPEAERAEEEKEESDDDMGFGLFD

>AAD52012.1 Allergen Tri r 4 allergen [Trichophyton rubrum]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLLNLKNGDINVLTTDSDVSEITWLGDGTKVVYINGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKSGDKINFVGYGQSTTKGDLYNEAAAKEAVSSARIYDSLFVRHWDT
YVGTQFNAVFSGTLTKSGDKYSFDGKLKNLVQPVKYAESPYPPFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVPHDGSRVAEPINKRNGPRTPQGIEGASSSPVFSPDGKRI
AYLQMAAKNYESDRRVIHIAEVGTNKPVQRIASNWDRSPEAVKWSSDGRTLYVTAEDHAT
GKLFTLPADARDNHKPAVVKHDGSVSSFYFIGSSKSVLISGNSLWSNALYQVATPDRPNR
KLFYANEHDPELKGLGPNDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDNWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
HDHIKYIDTDNGIAAGASFGGFMVNWIQGQDLGRKFKALVSHDGTFVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVVHNDFDFRLSVAEGVGLFNVLQEKG
VPSRFLNFPDETHWVTKPENSLVWHQQVLGWVNKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>AAD52013.1 Allergen Tri r 2 allergen [Trichophyton rubrum]
MGFITKAIPIVLAALSTVNGARILEAGPHAEAIPNKYIVVMKREVSDEAFNAHTTWLSQS
LNSRIMRRAGSSKPMAGMQDKYSLGGIFRAYSGEFDDAMIKDISSHDDVDFIEPDFVVRT
TTNGTNLTHQDNVPSWGLARVGSKKPGGTTYYYDPSAGKGVTAYIIDTGIDIDHEDFQGR
AKWGENFVDQQNTDCNGHGTHVAGTVGGTKYGLAKGVSLVAVKVLDCDGSGSNSGVIKGM
EWAMRQASGGGNGTAKAAGKSVMNMSLGGPRSEASNQAAKAISDAGIFMAVAAGNENMDA
QHSSPASEPSVCTVAASTKDDGKADFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMA
SPHVCGLGAYLIGLGKQGGPGLCDTIKKMANDVIQSPGEGTTGKLIYNGSGK

>AAD52615.1 Putative phospholipase A1 [Polistes annularis]
MSPDCTFNEKDIVFYVYSRDKRDGIILKKETLTNYDLFTKSTISKQVVFLIHGFLSTGNN
ENFVAMSKALIEKDDFLVISVDWKKGACNAFASTKDALGYSKAVGNTRHVGKFVADFTKL
LVEKYKVLISNIRLIGHSLGAHTSGFAGKEVQKLKLGKYKEIIGLDPAGPYFHRSDCPDR
LCVTDAEYVQVIHTSIILGVYYNVGSVDFYVNYGKNQPGCNEPSCSHTKAVKYLTECIKH
ECCLIGTPWKKYFSTPKPISQCRGDTCVCVGLNAKSYPARGAFYAPVEANAPYCHNEGIK
L

>AAD52616.1 Putative hyaluronidase precursor [Polistes annularis]
YVSLSPDSVFNIITDDISHQILSRSNCERSKRPKRVFSIYWNVPTFMCHQYGMNFDEVTD
FNIKHNSKDNFRGETISIYYDPGKFPALMPLKNGNYEERNGGVPQRGNITIHLQQFNEDL
DKMTPDKNFGGIGVIDFERWKPIFRQNWGNTEIHKKYSIELVRKEHPKWSESMIEAEATK
KFEKYARYFMEETLKLAKKTRKRAKWGYYGFPYCYNVTPNNPGPDCDAKATIENDRLSWM
YNNQEILFPSVYVRHEQKPEERVYLVQGRIKEAVRISNNLEHSPSVLAYWWYVYQDKMDI
YLSETDVEKTFQEIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNTLGPFAVNVTETVN
GRSSLNF

>AAD52672.1 Putative 98kDa HDM allergen [Dermatophagoides farinae]
MKTIYAILSIMACIGLMNASIKRDHNDYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFAKIDEYKYTIQVFDPYQDDNHNSWEKRGYERFNNLRLKNPELTTMISLGGWY

EGSEKYSDMAANPTYRQQFIQSVLDFLQEYKFDGLDLDWEYPGSRLGNPKIDKQNYLALV
RELKDAFEPHGYLLTAAVSPGKDKIDRAYDIKELNKLFDWMNVMTYDYHGGWENFYGHNA
PLYKRPDETDELHTYFNVNYTMHYYLNNGATRDKLVMGVPFYGRAWSIEDRSKLKLGDPA
KGMSPPGFISGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYDDLASISC
KLAFLKELGVSGVMVWSLENDDFKGHCGPKNPLLNKVHNMINGDEKNSFECILGPSTTTP
TPTTTPTTPTTTPTTPSPTTPTTTPSPTTPTTTPSPTTPTTTPSPTTPTPTTPTPAPTTS
TPSPTTTEHTSETPKYTTYVDGHLIKCYKEGDIPHPTNIHKYLVCEFVNGGWWVHIMPCP
PGTIWCQEKLTCIGE

>AAD55587.1 Allergen profilin [Arachis hypogaea]
MSWQTYVDNHLLCEIEGDHLSSAAILGQDGGVWAQSSHFPQFKPEEITAIMNDFAEPGSL
APTGLYLGGTKYMVIQGEPGAIIPGKKGPGGVTIEKTNQALIIGIYDKPMTPGQCNMIVE
RLGDYLIDTGL

>AAD56337.1 Allergen allergen Arah6 [Arachis hypogaea]
AHASAMRRERGRQGDSSSCERQVDGVNLKPCEQHIMQRIMGEQEQYDSYNFGSTRSSDQQ
QRCCDELNEMENTQRCMCEALQQIMENQCDGLQDRQMVQHFKRELMNLPQQCNFGAPQRC
DLDVSGGRC

>AAD56719.1 Putative allergen [Arachis hypogaea]
MMVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEH
MRRRVEQEQEQEQDEYPYSRRGSRGRQPGESDENQEQRCCNELNRFQNNQRCMCQALQQI
LQNQSFWVPAGQEPVASDGEGAQELAPELRVQVTKPLRPL

>P42040.2 Putative Enolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Allergen Cla h 6) (Cla h VI) [Davidiella tassiana]
MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIAPALIKENLDVKDQAAVDAFLNKLDGTTNKTKIGANAILGVSMAVAK
AAAAEKRVPLYAHISDLSGTKKPFVLPVPFMNVVNGGSHAGGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLKSLTKKRYGQSAGNVGDEGGVAPDIQTAEEALDLITDAIEEAGYTGQ
IKIAMDVASSEFYKADEKKYDLDFKNPDSDKSKWITYEQLADQYKQLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKKAIETKACNALLLKVNQIGTITEAI
NAAKDSFAAGWGVMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKAVYAGDNFRTAINL

>CAB58171.1 Putative troponin-like protein [Anisakis simplex]
MAEDIEEILAEIDGSQIEEYHKFFDMFDRGKQGYIMATQIGQIMHAMEQDFDEKQLRKLI
RKFDADGSGKLEFDEFCALVYTVANTVDKETLQKELREAFRLFDKEGNGYISRPTLKALL
KEIADDLSDDQLEAAVDEIDEDGSGKIEFEEFWELMAGEAD

>AAB82772.2 Allergen beta-1, 3-glucananse [Musa acuminata AAA Group]
MATKASLSIKGFALLVSVLVAVPTRVQSIGVCYGMLGNNLPPPSEVVSLYKSNNIARMRL
YDPNQAALQALRNSNIQVLLDVPRSDVQSLASNPSAAGDWIRRNVVAYWPSVSFRYIAVG
NELIPGSDLAQYILPAMRNIYNALSSAGLQNQIKVSTAVDTGVLGTSYPPSAGAFSSAAQ
AYLSPIVQFLASNGAPLLVNVYPYFSYTGNPGQISLPYALFTASGVVVQDGRFSYQNLFD
AIVDAVFAALERVGGANVAVVVSESGWPSAGGGAEASTSNARTYNQNLIRHVGGGTPRRP
GKEIEAYIFEMFNENQKAGGIEQNFGLFYPNKQPVYQISF

>P35776.2 Putative Venom allergen 2 (Venom allergen II) (Allergen Sol r 2) (Sol r II) [Solenopsis richteri]
DIEAQRVLRKDIAECARTLPKCVNQPDDPLARVDVWHCAMSKRGVYDNPDPAVVKEKNSK
MCPKIITDPADVENCKKVVSRCVDRETQRPRSNRQKAINITGCILRAGVVEATVLAREK

>P35779.2 Putative Venom allergen III (Allergen Sol r 3) (Sol r III) [Solenopsis richteri]
TNYCNLQSCKRNNAIHTMCQYTSPTPGPMCLEYSNVGFTDAEKDAIVNKHNELRQRVASG
KEMRGTNGPQPPAVKMPNLTWDPELATIAQRWANQCTFEHDACRNVERFAVGQNIAATSS

SGKNKSTLSDMILLWYNEVKDFDNRWISSFPSDGNILMHVGHYTQIVWAKTKKIGCGRIM
FKEDNWNKHYLVCNYGPAGNVLGAQIYEIKK

>P81657.1 Putative Venom allergen 5 (Antigen 5) (Ag5) (Allergen Vesp m 5) [Vespa mandarinia]
NNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKASGLTKAEKLEILKQHNEFRQKVARGLE
TRGKPGPQPPAKSMNTLVWNDELAQIAQVWAGQCDYGHDVCRNTAKYSVGQNIAENGSTA
ASFASVSNMVQMWADEVKNYQYGSTKNKLIEVGHYTQMVWAKTKEIGCGSIKYIENGWHR
HYLVCNYGPAGNIGNEPIYERK

>CAB59976.1 Putative Gly d 2 [Glycyphagus domesticus]
GKMNFTDCGHNEIKELSVSNCTGNYCVIHRGKPLTLDAKFDANQDTASVGLVLTAIIDGD
IAIDIPGLETNACKLMKCPIRKGEHQELIYNIGEIPDATPEIKAKVKAQLIGEHGVLACG
WVDGEVQE

>CAB62212.1 Putative allergen, partial [Lepidoglyphus destructor]
DDFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFID
SAKGHFERELKRADLNLAEKFNFESALSTGAVLHKDLTALATKVKAIETK

>CAB62213.1 Putative allergen [Lepidoglyphus destructor]
MANIAGQYKLDKSENFDQFLDKLGVGFLVKTAAKTVKPTLEVAVDGDTYIFRSLSTFKNT
EIKFKLGEEFEEDRADGKRVKTVIVKDGDNKFVQTQYGDKEVKVVREFKGDEVEVTASVD
GVTSVRPYKRA

>CAB62551.1 Allergen cup a 1 protein [Cupressus arizonica]
DNPIDSCWRGDSNWDQNRMKLADCVVGFGSSTMGGKGGEIYTVTSSEDNPVNPTPGTLRY
GATREKALWIIFSQNMNIKLQMPLYVAGYKTIDGRGAVVHLGNGGPCLFMRKASHVILHG
LHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVTNAWIDHNSLSDCSDGLIDVTL
GSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVHV
ANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRSTR
DAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQNAGVVA

>AAF18269.1 Putative vicilin-like protein precursor [Juglans regia]
RGRDDDDEENPRDPREQYRQCQEYCRRQGQGQRQQQQCQIRCEERLEEDQRSQEERERRR
GRDVDDQNPRDPEQRYEQCQQQCERQRRGQEQTLCRRRCEQRRQQEERERQRGRDRQDPQ
QQYHRCQRRCQIQEQSPERQRQCQQRCERQYKEQQGRERGPEASPRRESRGREEEQQRHN
PYYFHSQSIRSRHESEEGEVKYLERFTERTELLRGIENYRVVILDANPNTSMLPHHKDAE
SVAVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATVYVINQDSNERLEMVKLLQPVN
NPGQFREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDRLERFFDQQEQREGVIIRASQE
KLRALSQHAMSAGQRPWGRRSSGGPISLKSESPSYSNQFGQFFEACPEEHRQLQEMDVLV
NYAEIKRGAMMVPHYNSKATVVVYVVEGTGRYEMACPHVSSQSYEGQGRREQEEEESTGR
FQKVTARLARGDIFVIPAGHPIAITASQNENLRLLGFDINGENNQRDFLAGQNNIINQLE
REAKELSFNMPREEIEEIFESQMESYFVPTERQSRRGQGRDHPLASILDFAFF

>CAB63699.1 Allergen pollen allergen [Lolium perenne]
MASSSSVLLVVALFAVFLGSAHGIAKVPPGPNITAEYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQKLRSAGELELQFRRVKCKYPDGTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEVEDVIPEGWKADTSYSAK

>CAB64344.1 Allergen pollen allergen [Lolium perenne]
MAVQKYTVALFLAVALVAGPADSYAADAGYTPAAAATPATPAATPAAGGGKATTDEQKLL
EDVNAGFKAAVAADANAPPADKFKIFEAAFSESCKGLLATSDAKAPGLILKLDTDYDVAY
KAGEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALKECTGGAYETYKFIPSLEAAVKQAYATTVAA
APEVKYAVFEAALTKAITAMSQAQKVAKPAAAAATGAATVATGAATAAAGGATAAAGGYK
A

>AAF23726.1 Allergen allergen Pen n 13 [Penicillium chrysogenum]
MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFSTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDENTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSYTYDSTAGEGVVFYGVDTGIDISHSDFGGRAKWGTNVVDN
DNTDGNGHGTHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNTSLGGEFSKAVNDAAANVVKSGIFLSVAAGNEAENASNSSPASAAEACTIA
ASTSTDGSASFTNFGSVVDLYAPGQSITAAYPGGGSKTLSGTSMAAPHVAGVAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

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

>CAB65963.1 Putative putative allergen [Lepidoglyphus destructor]
MQYLAIAVIVALAGLSAAAHKPAYYDDNMANQMVDQIVKSLTTKKELDPFKIEQTKVPID
KKIGLIHIKGSATIKNAVITGLSHISRRGDAKIDTDGGAFAATLKLGDKNIRIKTDLHLD
LGKIIHPNLKFEGHIGDIDMKLKLKLDAEGKPSLDQFEIDEFEQVELFIHGLGPLDPLVD
VIADSFVKYFNPQARKLVTDMLKPILVEEIKKLKLN

>AAF25553.1 Allergen latex protein allergen Hev b 7 [Hevea brasiliensis]
MATGSTPLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDLDGPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>AAF26449.1 Allergen lipid transfer protein precursor [Prunus avium]
MACSAMTKLALVVALCMVVSVPIAQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAAALPGKCGVNVPYKISPSTNCATVK

>AAF26451.1 Putative lipid transfer protein precursor [Pyrus communis]
MASSAVIKLALVVALCMAVSVAHAITCSQVSANLAPCINYVRSGGAVPPACCNGIKTING
LAKTTPDRQAACNCLKNLAGSVSGVNPGNAESLPGKCGVNVPYKISTSTNCATVK

>AAF28423.1 Putative group 6 allergen [Dermatophagoides farinae]
MIKIFLVTILIVITVTVDARFPRSLQPKWAYLDSNEFPRSKIGDSPIAGVVGGQDADLAE
APFQISLLKDYLIMKRHMCGGSLISESTVVTAAHCTYGQKASSLSVRYGTNQRTSSSYGD
LKVKPIIQHESYEQDQTQTDKTIIILPNPVVPSTNVQMNEIETEDIVDGDKVTIYGWGLT
DGNGKDLPDKLQKGSMTIVGNDRCNEKWGSINAIHPGMICALDKTQSGCNGDSGGPLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>CAB71342.1 Putative Lep d 10 protein [Lepidoglyphus destructor]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKSRDANLRAEKSEEEVRGLQKKIQQIENELDQV
QESLTQANTKLEEKEKSLQTAEGDVAALNRRIQLIEEDLERSEGRLKIATSKLEEASQSA
DESERMRKMLEHRSITDEERMEGLESQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAYEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFAELTGY

>AAF31151.1 Putative calcium-binding protein [Olea europaea]
MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDELAGVLKALGSNTSKEEIGRI
MEEIDTDKDGFINVQEFAAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERYAEHDCVEMIKSVDSDGDGYVSFEEFKKMMTNKSGNNSQAEPPK

>AAF31152.1 Putative calcium-binding protein [Olea europaea]
MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDELACALKALGSNTSKEEIARM

MEEIDTDKDGFINVQEFAAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERYAEHDCVEMIKSVDSDGDGYVSFEEFKKMMTNKSGNNSQAEPPK

>AAF34341.1 Allergen latex profilin Hev b 8 [Hevea brasiliensis]
MSWQTYVDEHLMCDIDGHHLTAAAIIGHDGSVWAQSSSFPQFKPEEVAAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

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

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

>AAF35431.1 Putative heat stable allergen tropomyosin [Charybdis
feriatus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLPEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEK

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

>CAA09886.2 Putative allergen [Malassezia sympodialis]
MVALKFAAVLSVVAAAVMAAPSSMDRRASPDNQVWVTSASDYCLILPRHRESIGDSESPG
RMRSFCSKPYDSSQGQINPGFWKEVHFKKTKNYVQLTGCINPRVQSTLLSHDDGGQYDSN
GNGGVGNPEGSVCLGYSSYVELVEPSDGKACIRCCVNDKYCDVGHDEDGCEAVIPGQYC

>CAA09938.2 Putative tropomyosin [Chironomus kiiensis]
MDAIKKKMQAMKLEKDNALDRALLCENQARDANLRAEKAEEEARTLQKKIQTIENDLDQT
QGQETLVNGKLEGKEKALQNAESEVAALNRRIQLLGEDLDRSEERLASATAKLSEASAAA
DESERARKILENRSLADEERMDALENQLKEARFLAEEADKKYDEVARKLAMVEADLERAE
ERAEAGEAKIVELEEELRVVGNNLKSLEVSEEKANQREEEYKNQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVSEKEKYREIGDDLDTAFVELILKE

>CAB82855.1 Putative convicilin [Pisum sativum]
MATTIKSRFPLLLLLGIIFLASVVCVTYANYDEGSEPRVPAQRERGRQEGEKEEKRHGEW
RPSYEKEEDEEEGQRERGRQEGEKEEKRHGEWRPSYEKQEDEEEKQKYRYQREKEDEEEK
QKYQYQREKKEQKEVQPGRERWEREEDEEQVDEEWRGSQRREDPEERARLRHREERTKRD
RRHQREGEEEERSSESQERRNPFLFKSNKFLTLFENENGHIRLLQRFDKRSDLFENLQNY
RLVEYRAKPHTIFLPQHIDADLILVVLSGKAILTVLSPNDRNSYNLERGDTIKLPAGTTS
YLVNQDDEEDLRLVDLVIPVNGPGKFEAFDLAKNKNQYLRGFSKNILEASYNTRYETIEK
VLLEEQEKDRKRRQQGEETDAIVKVSREQIEELKKLAKSSSKKSLPSEFEPINLRSHKPE
YSNKFGKLFEITPEKKYPQLQDLDLFVSCVEINEGALMLPHYNSRAIVVLLVNEGKGNLE
LLGLKNEQQEREDRKERNNEVQRYEARLSPGDVVIIPAGHPVAITASSNLNLLGFGINAE
NNERNFLSGSDDNVISQIENPVKELTFPGSVQEINRLIKNQKQSHFANAEPEQKEQGSQG
KRSPLSSILGTFY

>A59055 Allergen phospholipase A2 (EC 3.1.1.4), venom - Indian honeybee
[Apis cerana]

IIYPGTLWCGHGNVSSGPNELGRFKHTDACCRTHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGEKISSYFVGKMYFNLIDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKVYQWFDLRKY

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

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

>AAB50734.2 Allergen Cyn d 1 [Cynodon dactylon]
AIGDKPGPNITATYGSKWLEARATFYGSNPRGAAPDDHGGACGYKDVDKPPFDGMTACGN
EPIFKDGLGCRACYEIKCKEPVECSGEPVLVKITDKNYEHIAAYHFDLSGKAFGAMAKKG
QEDKLRKAGELTLQFRRVKCKYPSGTKITFHIEKGSNDHYLALLVKYAAGDGNIVAVDIK
PRDSDEFIPMKSSWGAIWRIDPKKPLKGPFSIRLTSEGGAHLVQDDVIPANWKPDTVYTS
KLQFGA

>AAF71379.1 Putative allergen Pen n 18 [Penicillium chrysogenum]
MKGFLSLTLLPLLVAASPVAVNSIHNDAAPILSSMTSKDIPDSYIVVFKKHVDPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGFDFEAFMGLKHTFHIAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFNKYLYAEEGGEGVDAYV
IDTGANVKHVDFEGRANWGKTIPQGDADEDGNGHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGVEWAAEAHIKKSKKGDKKFKGSVANMSLGGGSSRTLDLAVNAAVD
AGIHFAVAAGNDNADACNYSPAAAEKAITVGASTLADERAYFSNYGKCTDIFAPGLNILS
TWVGSDHATNTISGTSMASPHIAGLLAYYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGIIIDSAEKAFHKE
LGAIYSEIKDAVSV

>AAF72534.1 Putative tropomyosin [Blattella germanica]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANIRAEKAEEEARSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANLREEEYKQQIKTLNTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKYICDDLDMTFTELIGN

>AAF72625.1 Allergen Cup s 1 pollen allergen precursor [Cupressus sempervirens]
MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTATSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>AAF72626.1 Allergen Cup s 1 pollen allergen precursor [Cupressus sempervirens]
MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLEMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV

TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>AAF72627.1 Allergen Cup s 1 pollen allergen precursor [Cupressus sempervirens]
MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHSCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLPDCSDGLIDVTLSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>AAF72628.1 Allergen Cup s 1 pollen allergen precursor [Cupressus sempervirens]
MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGNVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVSTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>AAF72629.1 Allergen Cup s 1 pollen allergen precursor [Cupressus sempervirens]
MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGNVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVSTSACANWVWRSTRDAFSNGAYFVSSGKTEETNIYTSNEAFKVENGNLAPQLT
KNAGVVA

>AAF72991.1 Putative beta-expansin [Oryza sativa]
MASSCLLLACVVAAAMVSAVSCGPPKVPPGPNITAAYGKQWLEARGTWYGKPKGAGPDDN
GGACGYKDIDKAPFLGMNSCGNDPIFKDGKGCGSCFEVKCSKPEACSDKPVIIHITDMNT
EPIAAYHFDLSGHAFGAMAKEGKDEELRKAGIIDMQFRRVRCKYPGETKVTFHVEKGSNP
NYFAVLVKYVGGDGDVVKVELKEKGSEEWKPLNESWGAIWRIDTPKPLKGPFSLRVTTES
DQKLVANDVIPDNWKANALYKSEIQVD

>AAF75225.1 Putative paramyosin isoform [Anisakis simplex]
PRAAGELQKMKSLYEKAVEQKEALARENKKLQDELHEAKEALADANRKLHELDLENARLA
GEIRDLQTALKESDAARREAENRAQRLAADLQQLRIEMERRLQEKEEEMEALRKNMQFEI
DRLTAALADAEARMKAEISRLKKKYQAEIAELEMTVDNLNRANIEAQKTIKKQSEQMKIL
QASLEDTQRHLQQTLDQYALAQRKISALSAELEECKVALDNAIRARKQAEVDLEEANVRI
AELVSLTNNLTTIKNKLETELSTVRADLDETTKELHAADERANRALADAARAIEQLHEEQ
EHSMKIDALRRSLEEQVKQLQVQIQEAEAAALLGGKRVIAKLETRIRDLETALDEETRRH
KETQNALRKKDRRIKEVQMQVDEEHKQFVMAQDTADRLLEKMNIQKRQLGEAESFTMANI
QRVRRYQRELEDAEGRADQAESSLHLIRAKHRSSVVTGRSASASKVYVLEDEQ

>AAF80164.1 Putative pollen major allergen 1-2 [Juniperus virginiana]
MASPCLIAFLVFLCAIVSCCSDNPIDSCWRGDSNWGQNRMKLADCAVGFGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVVPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITIFNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVA

>AAF80166.1 Putative pollen major allergen 1-1 [Juniperus virginiana]
MASPCLIAFLVFLCAIVSCCSDNPIDSCWRGDSNWGQNRMKLADCAVGFGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVVPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFSNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVA

>CAB96215.1 Allergen profilin [Hevea brasiliensis]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

>AAF82096.1 Putative antigen 5 precursor [Glossina morsitans morsitans]
MNFVLATLSLLILGSAAVGGDYCGLCDNHDACVMQNVFQSGCPSGAKMIDLNKYQSALLD
AHNKKRNHVAGGGESKLKRACQMATMKWDSELAKLAEYNVKQCQMNHDRCRNTVKFKYAG
QNLAELGRSGGPPPDYRKLIEKAVDKWYEEVKDCNQGYIDSYPMNYRGPAIGHFTVMVAE
RNTHVGCAASEYTKSNGFQYFLMACNYATTNMMEFPIYKSCGSSAQDCKSGKNSKYPNLC
SPNEKYEVNKWIKNGVEYH

>CAB96931.1 Putative thioredoxin h [Triticum aestivum]
MAASAATATAAAVGAGEVISVHSLEQWTMQIEEANAAKKLVVIDFTASWCGPCRIMAPIF
ADLAKKFPAAVFLKVDVDELKSIAEQFSVEAMPTFLFMKEGDVKDRVVGAIKEELTNKVG
LHAAQ

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

>AAF86369.1 Allergen major allergen I 18kDa antigen [Aspergillus fumigatus]
MTWTCINQQLNPKTNKWEDKRLLYNQAKAESNSHHAPLSDGKTGSSYAHWFTNGYDGNGK
LIKGRTPIKFGKADCDRPPKHSQNGMGKDDHYLLEFPTFPDGHDYKFDSKNKPKEDPGPA
RVIYTYPNKVFCGIVAHQRGNEGDLRLCSH

>AAF86462.1 Allergen Der p II allergen [Dermatophagoides pteronyssinus]
MYKILCLSLLVAAVARDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEAN
QNTKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

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

>CAC00532.1 Putative enolase, isoform 1 [Hevea brasiliensis]
MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAVPSGASTGIYEALELRDGGSDYL
GKGVSKAVENVNIIIGPALVGKDPTDQVGIDNFMVQQLDGTVNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYEHIANLAGNKNLVLPVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDQTYDLNFKEENNNGSQKISGEALKDLYKSFVAEYPIVSI
EDPFDQDDWAHYAKLTSEIGEKVQIVGDDLLVTNPKRVEKAIKEKACNALLLKVNQIGSV
TESIEAVKMSKRAGWGVMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL

LRIEEELGSEAVYAGANFRKPVEPY

>CAC05258.1 Putative Cup a 3 protein [Cupressus arizonica]
VKFDIKNQCGYTVWAAGLPGGGKEFDQGQTWTVNLAAGTASARFWGRTGCTFDASGKGSC
RSGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDVSLVDGFNIPLAINPTNTKCTAPACKA
DINAVCPSELKVDGGCNSACNVLQTDQYCCRNAYVNNCPATNYSKIFKNQCPQAYSYAKD
DTATFACASGTDYSIVFCP

>AAG08987.1 Putative tropomyosin [Haliotis diversicolor]
MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGARVLESRSLADDERIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKEKYKAISDELDQTFAELAGY

>AAG08988.1 Putative tropomyosin [Perna viridis]
MDAIKKKMVAMKMEKKNALDRAEQLEQKLRETEEAKAKIEDDYNSLVKKNIQTENDYDNC
NTQLQDVQAKYERAEKQIQEHEQEIQSLTRKISLLEEGIMKAEERFTTASGKLEEASKAA
DESERNRKVLENLNSGNDERIDQLEKQLTEAKWIAEEADKKYEEAARKLAITEVDLERAE
ARLEAAEAKVIDLEEQLTVVGANIKTLQVQNDQASQREDSYEETIRDLTNRLKDAENRAT
EAERTVSKLQKEVDRLEDELLTEKEKYKAISDELDATFAELAGY

>AAG08989.1 Allergen tropomyosin [Chlamys nobilis]
MDAIKKKMQAMKVDRENAQDLAEQMEQKLKDTETAKAKLEEEFNELQKKLTATENNYDTV
NEQLQEANTKLENSEKQITQLESDVGGLQRRLTLLEEDYERSEEKLNSTTEKLEEASKAA
DESERNRKVLEGRSNSYEERIDELEKQLETAKNVATDADHKFDEAARKLAITEVDLERAE
TRLEAADAKVLELEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTKSLKDAENRAT
EAERQVVKLQKEVDRLEDELLAEKERYKAISDDLDQTFAEIAGY

>CAC05582.1 Putative pollen major allergen 2 protein [Juniperus ashei]
MSMKFMAALAFLALQLIVMAAGEDQSAQIMLDSDTKQYHRSSRNLRKRVHHARHDVAIVF
NVEHYGAVGDGKHDSTDAFEKTWNAACNKLSAVFLVPANKKFVVNNLVFYGPCQPHFSFK
VDGTIAAYPDPAKWKNSKIWMHFARLTDFNLMGTGVIDGQGNRWWSDQCKTINGRTVCND
KGRPTAIKIDFSKSVTVKELTLTNSPEFHLVFGECDGVKIQGIKIKAPRDSPNTDGIDIF
ASKRFEIEKCTIGTGDDCVAVGTGSSNITIKDLTCGPGHGMSIGSLGKGNSRSEVSFVHL
DGAKFIDTQNGLRIKTWQGGSGLASHITYENVEMINAENPILINQFYCTSAAACKNQRSA
VKIQDVTFKNIHGTSATTAAIQLMCSDSVPCSNIKLSNVFLKLTSGKVATCVNKNANGYY
TNPLNPSCKSLHPGRTPKELELHQKPTTLLMDEKMGASLNSSPPNCKNKCKGCQPCKPKL
IIVHPNQPEDYYPQRWVCSCHNKIYNP

>BAA23360.2 Putative alpha subunit of beta conglycinin, partial [Glycine max]
VEKEECEEGEIPRPRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEEHEQREE
QEWPRKEEKRGEKGSEEEDEDEDEEQDERQFPFPRPPHQKEERKQEEDEDEEQQRESEES
EDSELRRHKNKNPFLFGSNRFETLFKNQYGRIRVLQRFNQRSPQLQNLRDYRILEFNSKP
NTLLLPNHADADYLIVILNGTAILSLVNNDDRDSYRLQSGDALRVPSGTTYYVVNPDNNE
NLRLITLAIPVNKPGRFESFFLSSTEAQQSYLQGFSRNILEASYDTKFEEINKVLFSREE
GQQQGEQRLQESVIVEISKEQIRALSKRAKSSSRKTISSEDKPFNLRSRDPIYSNKLGKF
FEITPEKNPQLRDLDIFLSIVDMNEGALLLPHFNSKAIVILVINEGDANIELVGLKEQQQ
EQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNFFAIGINAENNQRNFLAGS
QDNVISQIPSQVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSILR
AFY

>BAA74452.2 Putative alpha' subunit of beta-conglycinin, partial [Glycine max]
VEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPFPRPRQPHQEEEHEQKEE
HEWHRKEEKHGGKGSEEEQDEREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEDQD
EDEEQDKESQESEGSESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKRSQQ

LQNLRDYRILEFNSKPNTLLLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDALR
VPAGTTYYVVNPDNDENLRMITLAIPVNKPGRFESFFLSSTQAQQSYLQGFSKNILEASY
DTKFEEINKVLFGREEGQQQGEERLQESVIVEISKKQIRELSKHAKSSSRKTISSEDKPF
NLRSRDPIYSNKLGKLFEITPEKNPQLRDLDVFLSVVDMNEGALFLPHFNSKAIVVLVIN
EGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLNFFA
FGINAENNQRNFLAGSKDNVISQIPSQVQELAFPGSAKDIENLIKSQSESYFVDAQPQQK
EEGNKGRKGPLSSILRAFY

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

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

>BAB15802.1 Putative glycinin A3B4 subunit [Glycine max]
MGKPFFTLSLSSLCLLLLSSACFAITSSKFNECQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGLHLPSYSPYPQMIIVVQGKGAIGFAFPGCPETFEKPQQQS
SRRGSRSQQQLQDSHQKIRHFNEGDVLVIPPGVPYWTYNTGDEPVVAISLLDTSNFNNQL
DQNPRVFYLAGNPDIEHPETMQQQQQQKSHGGRKQGQHQQQEEEGGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDERKQIVTVEGGLSVISPKWQEQEDEDEDEDEEYEQTPSYPPRRP
SHGKHEDDEDEDEEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLYRNGIYSPHWNLNANSVIYVTR
GKGRVRVVNCQGNAVFDGELRRGQLLVVPQNFVVAEQGGEQGLEYVVFKTHHNAVSSYIK
DVFRAIPSEVLSNSYNLGQSQVRQLKYQGNSGPLVNP

>AAG22740.1 Putative allergenic isoflavone reductase-like protein Bet v 6.0102 [Betula pendula]
MAHKSKILIIGGTGYIGKFIVEASAKSGHPTFALVRESTVSDPVKGKLVEKFKGLGVTLL
HGDLYDHESLVKAFKQVDVVISTVGHLQLADQVKIIAAIKEAGNIKRFFPSEFGNDVDRV
HAVEPAKTAFATKAEIRRKTEAEGIPYTYVSSNFFAGYFLPTLAQPGLTSPPREKVVIFG
DGNARAVFNKEDDIGTYTIRAVDDPRTLNKIVYIKPAKNIYSFNEIVALWEKKIGKTLEK
IYVPEEKLLKDIQESPIPINVILAINHSVFVKGDHTNFEIEASFGVEASELYPDVKYTTV
EEYLQQFV

>AAG23840.1 Putative oleosin [Sesamum indicum]
MADRDRPHPHQIQVHPQHPHRYEGGVKSLLPQKGPSTTQILAIITLLPISGTLLCLAGIT
LVGTLIGLAVATPVFVIFSPVLVPAAILIAGAVTAFLTSGAFGLTGLSSLSWVLNSFRRA
TGQGPLEYAKRGVQEGTLYVGEKTKQAGEAIKSTAKEGGREGTART

>CAC13961.1 Putative IgE-binding protein MnSOD [Hevea brasiliensis]
QTFSLPDLPYDYGALEPAISGEIMQLHHQKHHQTYITNYNKALEQLNDAIEKGDSAAVVK
LQSAIKFNGGGHVNHSIFWKNLAPVREGGGELPHGSLGWAIDADFGSLEKLIQLMNAEGA
ALRGSGWVWLALDKELKKLVVETTANQDPLVTKGPTLVPLLGIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>CAC14917.1 Putative triosephosphat-isomerase [Triticum aestivum]
MGRKFFVGGNWKCNGTVEQVESIVNTLNAGQIASTDVVEVVVSPPYVFLPTVKGKLRPEI
QVAAQNCWVKKGGAFTGEVSAEMLVNLGVPWVILGHSERRSLMGESSEFVGEKVAYALAQ
GLKVIACVGETLEQREAGSTMAVVAEQTKAIADKIKDWTNVVVAYEPVWAIGTGKVASPA

QAQEVHANLRDWLKTNVSPEVAESTRIIYGGSVTGASCKELAAQPDVDGFLVGGASLKPE
FIDIINAAAVKSA

>AAG31026.1 Allergen subtilisin precursor [Bacillus licheniformis]
MMRKKSFWLGMLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNDPDVAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNGHGTHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSGSGSYSGIVSGIEWATTNGMDVINMSLGGASGSTAMK
QAVDNAYAKGVVVVAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTNTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINV

>AAG35601.1 Putative profilin 5 [Zea mays]
MSWQAYVDDHLLCDIEGQHLSAAAIVGHDGSVWAQSENFPELKPEEVAGMIKDFDEPGTL
APTGLFVGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMSLIIGIYDEPMTPGQCNMVVE
RLGDYLIEQGF

>1G5U_A Allergen Chain A, Latex Profilin Hevb8 [Hevea brasiliensis]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGAVIRGKKGSGGITVKRTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

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

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

>AAG40329.1 Allergen major allergen variant Cor a 1.0402 [Corylus
avellana]
MGVFSYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGLFKAVEAYLLAHPDTYC

>AAG40330.1 Allergen major allergen variant Cor a 1.0403 [Corylus
avellana]
MGVFCYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGLFKAVEAYLLAHPDTYC

>AAG40331.1 Allergen major allergen variant Cor a 1.0404 [Corylus
avellana]
MGVFSYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVEEIDHANFKYCYSIIEGGPLGHTLEKIPYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEEIKAGKEKAAGLFKAVEAYLLAHPDAYC

>AAG42254.1 Putative pollen allergen Poa p 5 [Poa pratensis]
MAVQKYTVALFLTVALVAGPAASYAADAGYAPATPAAAGAAAGKITPTQEQKLMEDINVG
FKAAVAAAAGAPPADKFKTFQAAFSASVEASAAKLNAAQAPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAAFTEALRIIAGVLKVHAVKPITEETGAAKIPAGEQQIIDKIDAAFKVA
ATAANAAPANDKFTVFEAAFNNAIKESTGGAYDTYKSIPSLEAAVKQAYAATIAAAPEVK

FAVFKAALTKAITAMAEVQKVSKPVAGAATVAAGAATAATGAATGAAGAATGAATVSAGG
YKV

>AAG42255.1 Allergen pollen allergen Hol l 5b [Holcus lanatus]
MAVQKYTVALFLTVALVAGPAASYAADAGYAPTTPAAAGAAAGKITPTQEQKLMEDINVG
FKAAVAAAAGAPPADKFKTFQAAFSASVEASAAKLNAAQAPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAAFTEALRVIAGVLKVHAVKPITEEIGAAKIPAGELQIIDKIDAAFKVA
ATAANAAPANDKFTVFEAAFNNAIKESTGGAYDTYKSIPSLEAAVKQAYAATIAAAPEVK
FAVFKAALTKAITAMAEVQKVSKPVAGAATAATGAATGAAGAATGAATVSAGGYKV

>AAG42802.1 Allergen lipophilin AL [Oryctolagus cuniculus]
MKLLVPLLLVALALGCYEADAAACPAFVLDSVGFLFDPKPVYRQKLAKYDAPPEAVEAKL
QVKECTDEIDKGKRVLIAAVLTKIVKECAL

>AAG42806.1 Allergen lipophilin CL2 [Oryctolagus cuniculus]
MKVVMVLLLAALPLYCYAGSGCVLLESVVEKTIDPSVSVEEYKADLQRFIDTEQTEAAVE
EFKECFLSQSNETLANFRVMVHTIYDSLYCAAY

>AAG44478.1 Putative vacuolar serine protease [Penicillium oxalicum]
MKGLLSLTLLPLLAAASPTWSETIHNGAAPLISSTSAKEIPDSYIVVFKKHVGASAASAH
HSWVQDIHSDNVRMELKKRSLFGFESEPYLGVKHTFHVAGSLMGYAGHFHEDVIEQVRRH
PDVEYIEKDSEVHHFEDPAIEKNAPWGLARISHRDSLSFGSFNKYLYAEDGGEGVDAYVI
DTGTNVDHVDFEGRASWGKTIPQGDQDVDGNGHGTHCSGTIAGKKYGVAKKANVYAVKVL
RSNGSGTMSDVVKGVEWAAEAHIKKSKAAKDGKAKGFKGSVANMSLGGGSSRTLDLAVNA
AVDAGMHFAVAAGNDNADACNYSPAAAEKAVTVGASTLADERAYFSNYGKCTDIFAPGLN
ILSTWIGSKYAVNTISGTSMASPHIAGLLAYYVSLQPASDSAYAVEEITPKKLKDALITI
ATSGALSDIPSDTPNLLAWNGGGSSNYTEIVSKGGYKAGASESMKKHLDELVGKVEEVIA
KEQKVLSHELGAIYSEIKDAVSA

>AAG44480.1 Putative vacuolar serine protease [Penicillium citrinum]
DSPSVEKNAPWGLARISHRDSLSFGTFNKYLYAEDGGEGVDAYVIDTGTNTDHVDFEGRA
NWGKTIPEGDEDVDGNGHGTHCSGTIAGKKYGVAKKANVYAVKVLRSNGSGTMSDVVKGV
EWAAEAHIKKAKAGKKGFKGSVANMSLGGGSSRTLDLAVNAAVDAGIHFAVAAGNDNADA
CNYSPAAAENAVTVGASTLADERAYFSNYGKCTDIFAPGLNILSTWIGSKYAVNTISGTS
MASPHIAGLLAYYVSLQPSDDSAFAVEKITPKKLKEALITVATSGALTDIPSDTPNLLAW
NGGGSSNYTDIVAQGGYKAGSTVEDFEEHIHKLVNHAEEVMHKELGAIYSEIKDAVAV

>BAB21489.1 Allergen Bet vI jap1 [Betula platyphylla]
MGVFNYETEATSVIPAARLFKAFILDGDKLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>BAB21490.1 Allergen Bet vI jap2 [Betula platyphylla]
MGVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDGVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>BAB21491.1 Allergen Bet vI jap3 [Betula platyphylla]
MGVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFEYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>AAK01235.1 Putative minor allergen hazelnut profilin [Corylus avellana]
MSWQTYGDEHLMCEIEGNRLAAAAIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRRKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>AAK01236.1 Putative minor allergen hazelnut profilin [Corylus avellana]

MSWQAYGDEHLMCEIEGNRLAAAAIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>AAK09361.1 Allergen phospholipase A-2 precursor, partial [Apis cerana cerana]
IIYPGTLWCGHGNVSSGPNELGRFKHTDACCRTHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGDKISSYFVGKMYFNLIDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKAYQWFDLRKY

>AAD55792.2 Putative male-specific submandibular protein MSP precursor [Mesocricetus auratus]
MVKFLLLALALGVSCAQHQNLEVSPSEVDGKWHSLYIAADNKSKVSEGGPLRVYVKHLEC
SDECQTFTIKFYTKVENVCQEHRVVGRKGKDGKYITDFSGQNYFHVVEKADDTMTFHNVN
VDDSGKTNVILVVGKGESSSIEQKQRFEKTAEKYDIPKENIEHLVTTDTCNQ

>AAK15087.1 Putative 11S globulin [Sesamum indicum]
MALTSLLSFFIVVTLLIRGLSAQLAGEQDFYWQDLQSQQQHKLQARTDCRVERLTAQEPT
IRFESEAGLTEFWDRNNQQFECAGVAAVRNVIQPRGLLLPHYNNAPQLLYVVRGRGIQGT
VIPGCAETFERDTQPRQDRRRRFMDRHQKVRQFRQGDILALPAGLTLWFYNNGGEPLITV
ALLDTGNAANQLDQTFRHFFLAGNPQGGRQSYFGRPQTEKQQGETKNIFNGFDDEILADA
FGVDVQTARRLKGQDDLRGRIVRAERLDIVLPGEEEEERWERDPYSGANGLEETLCTAKL
RENLDEPARADVYNPHGGRISSLNSLTLPVLSWLRLSAEKGVLYRNGLVAPHWNLNAHSI
IYITRGSGRFQVVGHTGRSVFDGVVREGQLIIVPQNYVVAKRASQDEGLEWISFKTNDNA
MTSQLAGRLSAIRAMPEEVVMTAYQVSRDEARRLKYNREESRVFSSTSRYSWPRSSRPMS
YMPKPFEYVLDVIKSMM

>AAK15088.1 Putative 2S albumin [Sesamum indicum]
MAKKLALAAVLLVAMVALASATTYTTTVTTTAIDDEANQQSQQCRQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQSLRDCCQQLRNVDERCRCEAIRQAVRQQQQEGGY
QEGQSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>AAK15089.1 Putative 7S globulin [Sesamum indicum]
MSCGGRLCLVLFALLLASAVVASESKDPELKQCKHQCKAQQQISKEQKEACIQACKEYIR
QKHQGEHGRGGGDILEEEVWNRKSPIERLRECSRGCEQQHGEQREECLRRCQEEYQREKG
RQDDDNPTDPEKQYQQCRLQCRRQGEGGGFSREHCERRREEKYREQQGREGGRGEMYEGR
EREEEQEEQGRGRIPYVFEDQHFITGFRTQHGRMRVLQKFTDRSELLRGIENYRVAILEA
EPQTFIVPNHWDAESVVFVAKGRGTISLVRQDRRESLNIKQGDILKINAGTTAYLINRDN
NERLVLAKLLQPVSTPGEFELFFGAGGENPESFFKSFSDEILEAAFNTRRDRLQRIFGQQ
RQGVIVKASEEQVRAMSRHEEGGIWPFGGESKGTINIYQQRPTHSNQYGQLHEVDASQYR
QLRDLDLTVSLANITQGAMTAPHYNSKATKIALVVDGEGYFEMACPHMSRSRGSYQGETR
GRPSYQRVASRLTRGTVVIIPAGHPFVAVASSNQNLQVLCFEVNANNNEKFPLAGRRNVM
NQLEREAKELAFGMPAREVEEVSRSQQEEFFFKGPRQQQQGRADA

>AAB32652.2 Allergen main olive allergen [Olea europaea]
QVYCDTCRAGFITELSEFIPGASVRLQCKEKKNGDITFTEVGYTRAEGLYSMLVERDHKN
EFCEITLISSGSKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQVY
NKLGMYPPNM

>AAK25823.1 Allergen group V allergen Phl p 5 precursor [Phleum pratense]
PISVTAPPPQLPRPPATPPPPPPPQLGASPYKLGPSPKARSERPAIVPPADKYRTFVATF
GAASNKAFAEGLSGEPKGGAESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLS
EALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFE
AAFNNAIKAGTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSE
AQKAAKPAAAATATATSAVGAPTGATTAAAGGYKV

>AAK28533.1 Putative lipid transfer protein precursor [Corylus avellana]
MGSLKLVCAVLLCMMVAAPVARASLTCPQIKGNLTPCVLYLKNGGVLPPSCCKGVRAVND

ASRTTSDRQSACNCLKDTAKGIAGLNPNLAAGLPGKCGVNIPYKISPSTNCNNVK

>AAK39511.1 Allergen paramyosin-like allergen [Dermatophagoides farinae]
MNKKRDSELAKLRKLLEDVHIESEETAHHLRQKHQAAIQEMQDQLDQLQKAKNKSDKEKQ
KFQAEVFELLAQLETANKEKLTALKNVEKLEYTVHELNIKIEEINRTVIELTSHKQRLSQ
ENTELIKEVHEVKLQLDNANHLKTQIAQQLEDTRHRLEEEERKRASLENHAHTLEVELES
LKVQLDEESEARLELERQLTKANGDAASWKSKYEAELQAHADEVEELRRKMAQKISEYEE
QLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKATRHAQQLEKRVAQLEKINLDLKNKLEE
VTMLMEQAQKELRVKIAELQKLQHEYEKLRDQRDQLARENKKLTDDLAEAKSQLNDAHRR
IHEQEIEIKRLENERDELSAAYKEAETLRKQEEAKNQRLIAELAQVRHDYEKRLAQKDEE
IEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLKKKYQAQITELELSLDAANKANIDLQK
TIKKQALQITELQAHYDEVHRQLQQAVDQLGVTQRRCQALQAELEEMRIALEQANRAKRQ
AEQLHEEAVVRVNELTTINVNLASAKSKLESEFSALQADYDEVHKELRISDERVQKLTIE
LKSTKDLLIEEQERLVKLETVKKSLEQEVRTLHVRIEEVEANALAGGKRVIAKLESRIRD
VEIEVEEERRRHAETDKMLRKKDHRVKELLLQ

>AAK49451.1 Putative enolase [Aspergillus fumigatus]
MPISKIHARSVYDSRGNPTVEVDVATETGLHRAIVPSGASTGQHEAHELRDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKLDGTANKSNLGANAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVPFQNVLNGGSHAGGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYGQSAGNVGDEGGVAPDIQTAEEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAIELKSCNALLLKVNQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPCRSERLAKLNQILRIEEE
LGENTVYAGSKFRTAVNL

>AAK51201.1 Putative enolase [Penicillium citrinum]
MPIAKVHARSVYVSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAVELRDGDKAKWGGK
GVLKAVKNVNETIGPALIKENIDVKDQAKVDEFLNKLDGTANKGNLGANAILGVSLAIAK
AAAAEKGVPLYVHISDLAGTKKPYVLPVPFQNVLNGGSHAGGRLAFQEFMIVPDTAESFS
EGLRQGAEVYQKLKALAKKKYGQSAGNVGDEGGVAPDIQTAEEALDLITEAIEQAGYTGK
ISIAMDVASSEFYKTDAKKYDLDFKNPDSDPTKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPLRIKKAIELKSCNALLLKVNQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPARSERLAKLNQILRIEEE
LGENAIYAGKNFRTSVNL

>AAK54834.1 Putative profilin [Musa acuminata]
MSWQAYVDDHLLCDIDGQCLTAAAIVGHDGSVWAQSDAFPQCKPEEIAAIMKDFDEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGSGGVTIKKTNLALIIGIYNEPMTPGQCNMVVE
RLGDYLFDQGF

>AAK56124.1 Putative beta-expansin 1 [Zea mays]
MGSLVNNIMVVGAVLAALVAGGSCGPPKVPPGPNITTNYNGKWLTARATWYGQPNGAGAP
DNGGACGIKNVNLPPYSGMTACGNVPIFKDGKGCGSCYEVRCKEKPECSGNPVTVYITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKIRHCGIMDVEFRRVRCKYPAGQKIVFHIEKGC
NPNYLAVLVKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>AAG44693.2 Putative vacuolar serine protease [Penicillium chrysogenum]
MKGFLSLTLLPLLVAASPVAVNSIHNDAAPILSSMTSKDIPDSYIVVFKKHVDPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGFDFEAFMGLKHTFHIAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFNKYLYAEEGGEGVDAYV
IDTGANVKHVDFEGRANWGKTIPQGDADEDGNGHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGVEWAAEAHIKKSKKGDKKFKGSVANMSLGGGSSRTLDLAVNAAVD
AGIHFAVAAGNDNADACNYSPAAAEKAITVGASTLADERAYFSNYGKCTDIFAPGLNILS
TWVGSDHATNTISGTSMASPHIAGLLAYYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGGIIDSAEKAFHKE
LGAIYSEIKDAVSA

>AAK58415.1 Putative cysteine protease precursor [Blomia tropicalis]
IPANFDWRQKTHVNPIRNQGGCGSCWAFAASSVAETLYAIHRHQNIILSEQELLDCTYHL
YDPTYKCHGCQSGMSPEAFKYMKQKGLLEESHYPYKMKLNQCQANARGTRYHVSSYNSLR
YRAGDQEIQAAIMNHGPVVIYIHGTEAHFRNLRKGILRGAGYNDAQIDHAVVLVGWGTQN
GIDYWIVRTSWGTQWGDAGYGFVERHHNSLGINNYPIYASL

>AAK58515.1 Allergen beta-1,3-glucanase-like protein [Olea europaea]
MAANVQTSSLLFLVFLLLQNFYSANSQSFLGVNYGQLSDNLPSLQATVNLLKSTTIQKVR
LFGAEPAVIKAFANTGVEIVIGFDNGDIPTLASNPNVASQFVKSNVMSFYPASNIIAITV
GNEVLTSGDQKLISQLLPAMQNVQNALNAASLGGKVKVSTVHAMAVLSQSYPPSSGVFNP
GLGDTMKALLQFQSANDAPFMISPYPYFAYKNQPTPDTLAFCLFQPNAGQVDSGNGHKYT
NMFDAQVDAVHSALNAMGFKDIEIVVAETGWPHGGDSNEVGPSLDNAKAYVGNLINHLKS
KVGTPLMPGKSIDTYLFSLYDEDKKTGASSEKYFGLFKPDGSTTYDVGLLKNTQNPTTPA
TPTPTPKAAGSWCVPKPGVSDDQLTGNINYACGQGIDCGPIQPGGACFEPNTVKAHAAYV
MNLYYQSAGRNSWNCDFSQTATLTNTNPSYGACNFPSGSN

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

>CAC41633.1 Putative plantain pollen major allergen, Pla l 1.0101 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQVQLDCKDDSKKVIYSIGGETDQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>CAC41634.1 Putative plantain pollen major allergen, Pla l 1.0102 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>CAC41635.1 Putative plantain pollen major allergen, Pla l 1.0103 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSGRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>AAK62278.1 Putative group 5 allergen precursor [Dactylis glomerata]
MAVQKYTVALFLAVVLVAGPVASYAADAGYTPAAAATPATAGGKAMTEEQTLIEDVNAGF
KAAVAAASSAPPADKFKTFEATFTAACKANIAAAATKVPLFVAKLDAAYAVAYKTATGPT
PEAKYDAFVAALTEALRVIAGALEVHAVKPAAEEVPAAKIPAGELQIVDKIDAAYKIAAT
AANAAPANDKFTVFEGAFNKAIKESTGGAYESYKFIPTLEAAVKQAYAATVAAAPEVKYA
VFEAALTKAITAMSEAQKVATPAAVATGAATAAASAATGAATAAAGGYKV

>P92918.1 Allergen Major allergen Api g 2 (Api g 1.0201) [Apium graveolens]
MGVQKTVVEAPSTVSAEKMYQGFLLDMDTVFPKVLPQLIKSVEILEGDGGVGTVKLVHLG
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

GVTKAVANVNDTIAPALIKEKLDVKDQSAVDAFLNKLDGTTNKTNLGANAILGVSMAIAK
AAAAEKGVPLYAHISDLAGTKKPYVLPVPFQNVLNGGSHAGGRLAFQEFMIVPCEAPTFS
EAMRQGAEVYQKLKALAKKTYGQSAGNVGDEGGVAPDIQTAEEALDLITKAIEEAGYTGK
IKIAMDVASSEFYKADEKKYDLDFKNPDSDKSKWLTYEQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSYFFKTYDGQIVGDDLTVTNPEFIKKAIELKSCNALLLKVNQIGTITEAIQA
AKDAFGAGWGVMVSHRSGETEDVTIADIVVGLRSGQIKTGAPARSERLAKLNQILRIEEE
LGDNAVYAGNNFRTAVNL

>Q9LEI9.1 Putative Enolase 2 (2-phosphoglycerate dehydratase 2) (2-phospho-D-glycerate hydro-lyase 2) (Allergen Hev b 9) [Hevea brasiliensis]
MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAVPRGASTGIYEALELRDGGSDYL
GKGVSKAVENVNIIIGPALVGKDPTDQVGIDNFMVQQLDGTVNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYKHVANLAGNKNLVLPVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDKTYDLNFKEENNNGSQKISGDVLKDLYKSFVTEYPIVSI
EDPFDQDDWEHYAKLTSEIGVKVQIVGDDLLVTNPKRVEKAIKEKACNALLLKVNQIGSV
TESIEAVKMSKRAGWGVMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIEEELGAEAVYAGANFRTPVEPY

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

>Q92260.1 Putative Heat shock 70 kDa protein (Allergen Pen c 19) [Penicillium citrinum]
AYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAAAIAYGLDKKTEGE
RNVLIFDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFVNEFKRKHKKD
LTTNARALRRLRTACERAKRTLSSAAQTSIEIDSLFEGIDFYTSITRARFEELCQDLFRG
TMEPVERVLRDAKIDKSSVHEIVLVGGSTRIPKIQKLVSDFFNKDANKSINPDEAVAYGA
AVQAAILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTPLIKRNTTIPTKKSETFSTYS
DNQPGVLIQVFEGERARTKDNNLLGKFELTGIPPAPRGVPQIEVTFDLDANGIMNVSASE
KGTGKSNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEASRIQAKNGLESYAYSLKNT
ITEGKLQMSDDDKKKIEDKISEIISWLDNNQTAEKDEYESQQKELEAIANPIMQAAYGAA
GGAPPQQRADGETEEKKDEEELD

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

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

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

>Q9T0M8.1 Allergen Profilin-2 (Pollen allergen Par j 3) [Parietaria judaica]
MSWQAYVDDHLMCDVGDGNTLASAAIIGHDGSVWAQSANFPQLKPEEVTGIMNDFNEGGF
LAPTGLFLGGTKYMVIQGESGAVIGKKGSGGATLKKTGQAIVIGIYDEPMTPGQCNLVVE

RLGDYLLEQGM

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

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

>Q9NAS5.1 Putative Tropomyosin (Allergen Ani s 3) [Anisakis simplex]
MDAIKKKMQAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSTANSNLEEKEKKVQEAEAEVAALNRRMTLLEEELERAEERLKLATAKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQLKEAQMLAEEADRKYDEVARKLTMVEADLERAE
ERAETGENKIVELEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLEDELVHEKERYKSISEELDQTFQELSGY

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

>AAK63086.1 Allergen parvalbumin beta [Gadus morhua]
MAFAGILADADCAAAVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLFLQVFKAGARALTDAETKAFLKAGDSDGDGAIGVDEWAVLVKA

>AAK63087.1 Allergen parvalbumin beta [Gadus morhua]
MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSPADIKKVFEIIDQDKSDFVE
EDELKLFLQNFSAGARALSDAETKVFLKAGDSDGDGKIGVDEFGAMIKA

>AAK63088.1 Allergen parvalbumin [Theragra chalcogramma]
MSFAGVLADADVKAALAGCAAADSFNYKTFFKACGLAAKSHEEVKKAFFVIDQDQSGFIE
EDELKLFLQTFGAGARELTAAETKAFLAAGDEDGDGMIGVDEFVTLVKA

>AAK63089.1 Allergen parvalbumin [Theragra chalcogramma]
MAFAGILKDAEVAAALEACKSAGSFDHTKFFKSCGLAGKSSDDVKKAFGIIDQDQSDFIE
EEELKLFLQNFSASARALSDAETKAFLKAGDSDGDGKIGVDEFAAMVKA

>CAC42881.1 Putative putative class I chitinase [Hevea brasiliensis]
EQCGRQAGGALCPGGLCCSQYGWCANTPEYCGSGCQSQCDGGGGGEDGGIDLGSIISRST
FEEMLKHRNDAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHATTG
GWPTAPDGPYAWGYCYKEELNQASSYCSPSPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNNPDLVATDRVISFKAAIWFWMTPQFPKPSCHDVITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGRGWDARVEDRIGFYKRYCDMFAVGYGSNLDCYNQTPFGLG

>AAK67491.1 Putative enolase [Curvularia lunata]
MAITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKTKWGGK
GVTKAVANVNDIIAPALIKEKLDVKDQSAVDAFLNKLDGTENKTKLGANAILGVSMAIAK
AAAAEKGVPLYAHISDLAGTKKPYVFRFLSKNVLNGGSHAGGFLLFQEFMIAPAKTFAEA
LRIRQGAEVYQKLKALTKKTYGQSAGNYGDEGGVAPDIQTAEEALDLIVDAIEAAGHTGQ
IKIAMDVASSEFFKDDEKKYDLDFKNPDSDKSKWLTYPQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSHFYKDGDFQIVGDDLTVTNPEFIKTAIELKSCNALLLKVNQIGTISEAINA
AKDAFGAGWGVMVSHRSGETEDVTIADIVVGLRSGQIKTNAPARSERLAKYNQILRIEEE
LGDKRLFAGNKFHTAINLYL

>AAK67492.1 Allergen cytochrome c [Curvularia lunata]
MGFEQGDAKKGANLFKTRCAQCHTLKAGEGNKIGPELHGLFGRKTGSVAGYSYTDANKQK
GIEWNHDTLFEYLENPKKYIPGTKMAFGGLKKPKDRNDLITFLEQETK

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

>CAC48400.1 Putative putative allergen jun o 1 [Juniperus oxycedrus]
MASPCLRAVLVFLCAIVSCYSDNPIDSCWRGDSNWGQNRMKLADCVVGFGSSTMGGKGGE
FYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMLLGHDDTYDNDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANWVWRSTRDAFTNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

>AAK96255.1 Allergen acidic allergen Cyn d 1 precursor [Cynodon dactylon]
AMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGACGYKDVDKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSSPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHVEQDDVIPEDWKPDTVYKS
KIQF

>AAK96887.1 Allergen allergen II [Arachis hypogaea]
MAKLTILVALALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSY
ERDPYSPSQDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRCMCEALQQIMENQSDRL
QGRQQEQQFKRELRNLPQQCGLRAPQRCDLDVESGG

>AAK13027.1 Allergen ribonuclease-like PR-10b [Malus domestica]
MGVFTYESEFTSVIPPARLFNAFVLDADNLIPKIAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKDNFVYKYSVIEGDAISETIEKISYETKLVAAGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFKLIENYLLEHQDAYN

>AAK13029.1 Allergen ribonuclease-like PR-10c [Malus domestica]
MGVCTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKVGKEKAHGLFKLIESYLKDHPDAYN

>AAK13030.1 Allergen ribonuclease-like PR-10a [Malus domestica]
MGVYTFENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAEILEGDGGPGTTKKITFG
EGSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>AAK96889.1 Putative tropomyosin [Crassostrea gigas]
NSARGFDTVNEKYQECQTKMEEAEKTASEAEQEIQSLNRRIQLLEEDMERSEERLQTATE
KLEEASKAADESERNRKVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAI
TEVDLERAEARLEAAEAKVLELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQR
LKDAENRATEAERTVSKLQKEVDRLEDELLAEKERYKAISDELDQTFAELAGY

>BAB64303.1 Putative beta-conglycinin alpha prime subunit [Glycine max]
MMRARFPLLLLGVVFLASVSVSFGIAYWEKQNPSHNKCLRSCNSEKDSYRNQACHARCNL
LKVEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPFPRPRQPRQEGEHEQK
EEHEWHRKEEKHGGKGSEEEQDGREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEED
QDEDEEQDKESQESEGSESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKRS

QQLQNLRDYRILEFNSKPNTLLLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA
LRVPAGTTYYVVNPDNDENLRMITLAIPVNKPGRFESFFLSSTQAQQSYLQGFSKNILEA
SYDTKFEEINKVLFGREEGQQQGEERLQESVIVEISKKQIRELSKRAKSSSRKTISSEDK
PFNLRSRDPIYSNKLGKLFEITPEKNPQLRDLDVFLSVVDMNEGALFLPHFNSKAIVVLV
INEGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLNF
FAFGINAENNQRNFLAGSKDNVISQIPSQVQELAFLGSAKDIENLIKSQSESYFVDAQPQ
QKEEGNKGRKGPLSSILRAFY

>BAB64306.1 Putative beta-conglycinin beta-subunit [Glycine max]
MMRVRFPLLVLLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNGRIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLLFVLSGRAILTLVNNDDRDSYNLHP
GDAQRIPAGTTYYLVNPHDHQNLKIIKLAIPVNKPSRYDDFFLSSTQAQQSYLQGFSHNI
LETSFHSEFEEINRVLFGEEEEQRQQEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLRSRNPIYSNNFGKFFEITPEKNPQPRDLDIFLSSVDINEGALLLPHFNSKAIVILVIN
EGDANIELVGIKEQQQKQKQEEEPLEVQRYRAELSEDDVFVIPAAYPFVVNATSNLNFLA
FGINAENNQRNFLAGEKDNVVRQIERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQK
EEGSKGRKGPFPSILGALY

>AAF07903.2 Putative procalin [Triatoma protracta]
MKTFIVITFIGILSYAYADECENPEPMQGFSASQFYQGXWYVTHETSAXTLSECNILTTS
NDNGKFTVKHKYTKDGXVGELICEGQASANNKFTYDCKFXGZTMEQVTRTAMDTDYNDYA
LYYLCTTYKXGPNAGKKEGHYILSRRQPNTEIPDALKTKTKDLNLKLCG

>AAL07320.1 Putative profilin [Litchi chinensis]
MSWQTYVDDHLMCETDGQHLTAAAIIGHDGSVWAQSANFPQFKPAEIAAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGAVIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLVDQGL

>1JTI_A Allergen Chain A, Loop-Inserted Structure Of P1-P1' Cleaved
Ovalbumin Mutant R339t [Gallus gallus]
GSIGAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRFD
KLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNDVYSFSLASRLYAEERYPILPEYLQC
VKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIVF
KGLWEKTFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTMS
MLVLLPDEVSGLEQLESIINFEKLTEWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMAM
GITDVFSSSANLSGISSAESLKISQAVHAAHAEINEAGTEVVGSAEAGVDAASVSEEFRA
DHPFLFCIKHIATNAVLFFGRCVSP

>CAC85911.1 Allergen arginine kinase [Plodia interpunctella]
MVDAATLEKLEAGFSKLAASDSKSLLKKYLTREVFDALKNKKTSFGSTLLDSIQSGVENL
HSGVGIYAPDAEAYVVFADLFDPIIEDYHNGFKKTDKHPPKNWGDVETLGNLDPAGEFVV
STRVRCGRSMEGYPFNPCLTEAQYKEMEEKVSSTLSGLEGELKGTFFPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPSGRGIYHNENKTFLVWCNEEDHLRLISMQMGGDLKQ
VYKRLVRGVNDIAKRIPFSHNERLGFLTFCPTNLGTTVRASVHIKLPKLAADKAKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYEAVKEMYDGIAELIKIEKSL

>AAL14077.1 Allergen acidic Cyn d 1 isoallergen isoform 2 precursor
[Cynodon dactylon]
MLAVVAVVLASMVGGALCAMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDGMTGCGNEPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>AAL14078.1 Allergen acidic Cyn d 1 isoallergen isoform 3 precursor
[Cynodon dactylon]
MLAAVAVVLASMVGGAWCAMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDGMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA

AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKITFHVEKGSSPNYLA
LLVKYAAGDGNIVGVDIKPKGSDVFLPMKLSWGAIWRMDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

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

>CAD10374.1 Putative ypr10 [Castanea sativa]
MGVFTHENEITSAIPPGRLFKAFVLDADNLIPKLAPHAIKSAEIIEGNGGPGTIKKITFG
EGSQFKYVKHRIDEIDQANFTYCYSVIEGDVVNELLEKISYEIKIVASPDGGSILKNTSK
YHTKGEQEIKEEKVMAGKEKAAGLFKAVEAYLLAHSDAYN

>CAD10376.1 Putative profilin [Capsicum annuum]
MSWQTYVDDHLMCEIEGNRLTSAAIIGQDGSVWAQSATFPQFKPEEITAIMNDFAEPGTL
APTGLYLGGTKYMVIQGEAGAVIRGKKGPGGITVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIEQSL

>CAD10377.1 Allergen profilin [Solanum lycopersicum (Lycopersicon esculentum)]
MSWQTYVDEHLLCENEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGIMNDFAVPGTL
APTGLYLGGTKYMVIQGEPEAVIRGKKGPGGITIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIEQSL

>BAB71741.1 Putative glyoxalase I [Oryza sativa (japonica cultivar-group)]
MASGSEAEKSPEVVLEWPKKDKKRVLHAVYRVGDLDRTIKCYTECFGMKLLRKRDVPEEK
YTNAFLGFGPEDTNFALELTYNYGVDKYDIGAGFGHFAIATEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFELIQRGPTPEPLCQVMLRVGDLDRSIKFYEKALGMK
LLRKKDVPDYKYTIAMLGYADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNTKIASFLDPDGWKVVLVDNADFLKELQ

>CAC34055.2 Putative osmotin-like protein [Capsicum annuum]
MGYLRSSFVLFLLAFVTYTYAATFEVRNNCPYTVWAASTPVGGGRRLDRGQTWTINAPPG
TAMARIWGRTNCNFDGSGRGSCQTGDCGGVLQCTGWGKPPNTLAEYALNQFNNLDFWDIS
LVDGFNIPMTFAPTNPSGGKCHAIQCTANINGECPGSLRVPGGCNNPCTTFGGQQYCCTQ
GPCGPTELSKFFKKRCPDAYSYPQDDATSTFTCPSGSTNYRVVFCPNGVTGPNFPLEMPG
SDGVAK

>AAL29690.1 Allergen profilin [Solanum lycopersicum (Lycopersicon esculentum)]
MSWQTYVDDHLMCDIEGNHLTSAAIIGQDGSVWAQSANFPQFKPEEITAIMNDFAEPGTL
APTGLHLGGTKYMVIQGEAGAVIRGKKGAGGITVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYIIEQGL

>AAL37561.1 Allergen conglutin [Arachis hypogaea]
AKSTILVALLALVLVAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQEQ
YDSYDIRSTRSSDQQQRCCDELDQMENTERCMCEALQQIMENQCDRLQDRQMVQQFKREL
MNLPQQCNFRAPQRCDLDVSGGRC

>BAB79444.1 Putative BW8KD allergen protein [Fagopyrum esculentum]
MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTMDMMDDDSMRGREC
RSEESCMRGCCLAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMKQLPNKCGMGH
MRCHMGIGTRDYE

>CAC81811.1 Putative putative chitinase [Musa acuminata]
MKALLLVIFTLASSLGAFAEQCGRQAGGALCPGGLCCSQYGWCGNTDPYCGQGCQSQCGG
SGGSGGGSVASIISSSLFEQMLKHRNDAACPGKGFYTYNAFIAAANSFSGFGTTGDDAKK
KREIAAFLAQTSHETTGGWATAPDGPYAWGYCFVQEQNPSSDYCVASSQWPCAAGKKYYG
RGPIQISFNYNYGPAGRAIGSDLLNNPDLVATDATISFKTALWFWMTPQSPKPSCHDVIT
GSWTPSNADQAAGRLPGYGVTTNIINGGLECGKGYDARVADRIGFYKRYCDLLGVSYGDN
LDCYNQRPFASTAATATF

>AAL49391.1 Putative cystatin [Felis catus]
MIPGGLSEAKPATPEIQEIANEVKPQLEEKTNETYQKFEAIEYKTQVVAGINYYIKVQVD
DNRYIHIKVFKGLPVQDSSLTLTGYQTGKSEDDELTGF

>CAC83658.1 Allergen parvalbumin [Cyprinus carpio]
MAFAGILNDADITAALQGCQAADSFDYKSFFAKVGLSAKTPDDIKKAFAVIDQDKSGFIE
EDELKLFLQNFSAGARALTDAETKAFLKAGDSDGDGKIGVDEFAALVKA

>CAC83659.1 Allergen parvalbumin [Cyprinus carpio]
MAFAGVLNDADITAALEACKAADSFNHKTFFAKVGLTSKSADDVKKAFAIIDQDKSGFIE
EDELKLFLQNFKAGARALTDGETKTFLKAGDSDGDGKIGVDEFTALVKA

>AAL47677.1 Allergen major Der f 2 isoform [Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPESENVVVTVKLVGDNGVLACA
IATHAKIRD

>CAD20405.1 Putative group 5 isoallergen [Dactylis glomerata]
ADAGYTPAAAATPAAAGGKAMTEEQKLIEDVNAGFKAAVAAASSAPPADKFKTFEATFTA
ACKANIAAAATKVPLFVAKLDAAYAVAYKTAAGPTPEAKYDAFVAALTEALRVIAGALEV
HAVKPAAEEVPAAKIPAGELQIVDKIDAAYKIAATAANAAPANDKFTVFEGAFNKAIKES
TGGAYESYKFIPTLEAAVKQAYAATVAAAPEVKYAVFEAALTKAITAMSEAQKVATPAAA
ATGAATAAASAATGAATAAAGGYKV

>CAD20406.1 Allergen Group 1 allergen-like [Dactylis glomerata]
MASSSSSVLLVVALFAVFLGSAHGIPKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKD
NGGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDN
EEPIAPYHFDLSGHAFGSMAKKGEEQKLRSAGELELQFRRVKCKYPEGTKVTFHVEKGSN
PNYLALLVKYVDGDGDVVAVDIKEKGKDKWIALKESWGAIWRVDTPDKLTGPFTVRYTTE
GGTKSEVEDVIPEGWKADTSYEAK

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

>CAC86258.1 Allergen lipid transfer protein [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPCLTYVKSGGAVPAACCSGIRNL
NGMAKTTADRQAACNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>AAL73404.1 Allergen 11S globulin-like protein [Corylus avellana]
MAKLILVSFSLCLLVLFNGCLGINVGLRRQQQRYFGECNLDRLNALEPTNRIEAEACQIE
SWDHNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQQSQQGQRQGQGQSQRSEQDRHQKIRHFREGDIIALPAGVAHWCYNDGDSPVVTVSLL
HTNNYANQLDENPRHFYLAGNPDDEHQRQGQQQFGQRRRQQQHSHGEQGEQEQQGEGNNV
FSGFDAEFLADAFNVDVDTARRLQSNQDKRRNIVKVEGRLQVVRPERSRQEWERQERQER
ESEQERERQRRQGGRGRDVNGFEETICSLRLRENICTRSRADIYTEQVGRINTVNSNTLP
VLRWLQLSAERGDLQREGLYVPHWNLNAHSVVYAIRGRARVQVVDDNGNTVFDDELRQGQ
VLTIPQNFAVAKRAESEGFEWVAFKTNDNAQISPLAGRTSAIRALPDDVLANAFQISREE

ARRLKYNRQETTLVRSSRSSSERKRRSESEGRAEA

>AAL75449.1 Putative minor allergen beta-fructofuranosidase precursor [Solanum lycopersicum (Lycopersicon esculentum)]
MATQCYDPENSASRYTLLPDQPDSGHRKSLKIISGIFLSVFLLLSVAFFPILNNQSPDLQ
IDSRSPAPPSRGVSQGVSDKTFRDVAGASHVSYAWSNAMLSWQRTAYHFQPQKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHAVSKDLIHWLYLPFAMVPDQWYDINGVWTGS
ATILPDGQIMMLYTGDTDDYVQVQNLAYPANLSDPLLLDWVKFKGNPVLVPPPGIGVKDF
RDPTTAWTGPQNGQWLLTIGSKIGKTGVALVYETSNFTSFKLLDGVLHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWTPDNPELDCGI
GLRLDYGKYYASKTFYDPKKERRVLWGWIGETDSESADLQKGWASVQSIPRTVLYDKKTG
THLLQWPVEEIESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFSCSTSGGAASRGILGPFGVIVIADQTLSELTPVYFYISKGADGRAETHFCADQT
RFAFLSGTINLSL

>AAL75450.1 Putative minor allergen beta-fructofuranosidase precursor [Solanum lycopersicum (Lycopersicon esculentum)]
MATQCYDPENSASRYTLLPDQPDSGHRKSLKIISGIFLSVFLLLSVAFFPILNNQSPDLQ
IDSRSPAPPSRGVSQGVSDKTFRDVAGASHVSYAWSNAMLSWQRTAYHFQPQKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHAVSKDLIHWLYLPFAMVPDQWYDINGVWTGS
ATILPDGQIIMLYTGDTDDYVQVQNLAYPANLSDPLLLDWVKFKANPVLVPPPGIGVKDF
RDPITAWTGPQNGQWLLTIGSKIGKTGVALVCETSNFTSFKLLDGVLHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWTPDNPELDCGI
GLRLDYGKYYASKTFYDPKRERRVLWGWIGETDSESADLQKGWASVQSIPRTVLYDKKTG
THLLQWPVEEIESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFSCSTSGGAASRGILGPFGVIVIADQTLSELTPVYFYISKGADGRAETHFCADQT
RSSEAPGVGKQVYGSSVPVLDGEKHSMRLLVDHSIVESFAQGGRTVITSRIYPTKAVNGA
ARLFVFNNATGASVTASVKIWSLESANIQSFPLQDL

>AAL76932.1 Allergen major allergen isoform Dau c 1.0201 [Daucus carota]
MGVQKTEVEAPSTVSAEKMYQGFLLDMDTVFPKVLPQLIKSVEILEGDGGVGTVRLVHLG
EATEYTTMKQKVDVIDKAGLGYTYTTIGGDILVEGLESVVNQFVVVPTDGGCIVKNTTIY
NTKGDAVLPEDKVKEATEKSALAFKAVEAYLLAN

>AAL76933.1 Allergen minor allergen Dau c 4 profilin [Daucus carota]
MSWQTYVDDHLMCEVDGNPGQQLSAAAIIGHDGSVWAQSSTFPKFKPEEITGIMKNFDEP
GHLAPTGLYLGGTKYMVIQGEPIAVIRGKKGSGGVTIKKTGQALVFGVYDEPVTPGQCNL
IVERLGDYLIEQGL

>CAC37790.2 Allergen putative allergen Cup a 1 [Cupressus arizonica]
MASPCLVAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCVVGFGSLTMGGKGGE
IYTVTSSDDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLQMPLYVAGYKTIDGRGADV
HLGNGGPCLFMRTASHVILHGLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMLLGHDDTYDDDISMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANWVWRFTRDAFTNGAYFVSSGKAEETNIYNSNEAFKVENGNAAPQLT
QNAGVVT

>CAA09887.4 Putative allergen [Malassezia sympodialis]
MSNVIKKVFNTDKAEAEGSKVADAPQEAGHKGEGFLHDAKDRLQGFAGHGHHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLAPVTRHVHHRHEIEELLREREHHIHQHHIQHHV
QPVVDSEHLAEQIHSRVVPQTTVREVHANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGGVLTSTTRSIEEVGLLNLGNNQRTVEGETYTGGLPLSQ

>AAL86701.1 Allergen tropomyosin [Periplaneta fuliginosa]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAEEEARSLQKKIQQIENDLDQT

MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANLREEAYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFICDDLDMTFTELIGN

>AAL86739.1 Allergen 48-kDa glycoprotein precursor [Corylus avellana]
MLPKEDPELKKCKHKCRDERQFDEQQRRDGKQICEEKARERQQEEGNSSEESYGKEQEEN
PYVFQDEHFESRVKTEEGRVQVLENFTKRSRLLSGIENFRLAILEANPHTFISPAHFDAE
LVLFVAKGRATITMVREEKRESFNVEHGDIIRIPAGTPVYMINRDENEKLFIVKILQPVS
APGHFEAFYGAGGEDPESFYRAFSWEVLEAALKVRREQLEKVFGEQSKGSIVKASREKIR
ALSQHEEGPPRIWPFGGESSGPINLLHKHPSQSNQFGRLYEAHPDDHKQLQDLDLMVSFA
NITKGSMAGPYYNSRATKISVVVEGEGFFEMACPHLSSSSGSYQKISARLRRGVVFVAPA
GHPVAVIASQNNNLQVLCFEVNAHGNSRFPLAGKGNIVNEFERDAKELAFNLPSREVERI
FKNQDQAFFFPGPNKQQEEGGRGGRAFE

>AAK27264.1 Putative isoflavone reductase-like protein CJP-6
[Cryptomeria japonica]
MGGSRVLIIGGTGYIGRHVTNASLAQGHPTFLLVREITPSNPEKAQLLESFTSKGATLVQ
GSIDDHASLVAALKKVDVVISTLGAPQIADQFNLIKAIKEVGTIKRFFPSEFGNDVDKHH
AVEPMKSMFDLKIKLRRTIEAEGIPHTYVVPHCFAGYFLTNLAQLGLAAPPRDKIVIYGD
GTTKAVYMKEEDIGTFTIKAVDDPRTLNKTLYLKPPANTISTNDLVALWEAKIGKTLEKV
YLSEEQVLKLLQDTPFPGTFMVSIFHTIYVKGDQTNFQIGPDGVEASALYPDVKYTTVEE
YISAFV

>AAL79930.1 Allergen 60S acidic ribosomal protein P2 [Fusarium culmorum]
MKHLAAYLLLGLGGNTSPSAADVKAVLTSVGIDADEDRLNKLISELEGKDIQQLIAEGSE
KLASVPSGGAGGASGGAAAAGGAAEEAKEEEKEEEKEESDEDMGFGLFD

>AAL79931.1 Putative thioredoxin-like protein [Fusarium culmorum]
MVHHITSNDELQKLLSSTTYVVVDFFADWCPPCKAIAPVYEQLSTKHSVPDVLAFAKVNV
DHVQDAAQQYGITAMPTFMFFKEGKQVAVNGQAVIKGADPRTLGAAAEKLGGLAQKRVAG
A

>BAB88129.1 Allergen pathogenesis-related protein-like protein 1 [Daucus
carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKNCTIDYSYIDGDILMGFIEKIENHLSVVPNADGGSTTKTTAIF
HTKGDAVVPEENIKYAEEQNTMLFKAVEAYLIAN

>AAL25839.1 Putative lipid transfer precursor protein [Hevea
brasiliensis]
MAALKMVSFLVLCMLVAAPMTAQAITCGQVQSALVPCLSYLKTTGPTPPATCCNGVRTIN
NAAKTTADRRTACQCLKSAAGSVKGLNPTTVAGLPGKCGVNIPYKISLSTNCATVK

>P20347.3 Allergen Cysteine protease inhibitor 1 precursor (PCPI 8.3)
(P340) (P34021) [Solanum tuberosum]
MKSINILSFLLLSSTLSLVAFARSFTSENPIVLPTTCHDDDNLVLPEVYDQDGNPLRIGE
RYIINNPLLGAGAVYLYNIGNLQCPNAVLQHMSIPQFLGEGTPVVFVRKSESDYGDVVRV
MTVVYIKFFVKTTKLCVDQTVWKVNDEQLVVTGGKVGNENDIFKIMKTDLVTPGGSKYVY
KLLHCPSHLGCKNIGGNFKNGYPRLVTVDDDKDFIPFVFIKA

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

>AAM21322.1 Putative group 14 allergen protein [Dermatophagoides pteronyssinus]
LLTACLLGLGQAQHCEVACPRSIPQLINPKAQSTYVYSLDAKTVLTPRDSQKVTIKGDAE
VAFVSDCEAVLRLQNVAIDGVPNGAELAAELAAKPFAFGYFNGRILGVCPADDDQDWSLN
VKKAIVSSLQALSDGNVEKAEEIDFSGRCPTEYRKIRSQDDNTVVIEKRKDLNLCDDRRI
DLRQTPDQALGQLKELMRHYMHPMDSDLSCRMTLKDKVVTEVDCEERHVLVHRSNKPVHM
SYVKMMLKQNKDGVAADLGPTNAQPKRPYLSFDHKHKNPTETDVVEVLKKLCSEITEPQA
SIETSFTFQKLVDKLRYLSAEETASVDESVKTSVCPAHAHRLRELFLDASAFAASDGSIR
TLVKAHENQELSITRSTALFTVAAIKAAPNKETVQVLLPVIASEKTIRPMLLGFSVLVRR
YCEKTNDCATNSGVKDARDAYLARLAVARDASERMTIVRALENLNVNTDGVDNMVNAMDE
IIKSTDAEPAMRAAAVNALPNDASHMDRYKSLVMDESMPNEARIAAFQKMMKNGGMSHIK
DLFAVKGECMKNYVLTYVDNLKKSKNDLRRQTVGEDVELPEKPKREIGITRNIAREYGPY
TFEYDVIYPETHENVTRSINGRLIRSKNDQLKELVEFQVTQSGFDRELNNAMSLLEKKSF
QSVMQFLRDMLKMLSQIRKNADDNHHMKITVQINGKNVYFTDLFQDTKKMKELLMKRVEK
IINDKKVDRSIGGVLLDSKLVLPTITGLPLMYKFGDNLVVRYDGEFSGEKGDRNIRMNGG
VVAGLYGKMKLMVKDHKMGYEYDAKASYTPMIDMNVQKQEHSLLVRFNMKDMDQHTVMRF
KQSLREKRATGEEKDYENEITPDARSDRCFSFFLLDYCRKASHIKGLMLPNVEYYVVKPE
KEVTALELMLKSETQDKTRRYIAEMTAVGSPSNKQAKAELEVTKGEQYRVSVKLPEHEFN
TEFTINADKNNLKMHMDLPNVLQADLTGSFEHDKENNVRKNRLNLQYKFAGDEKPHTVDY
ENEFLFNLKRSSKEKNSAVEYRAKYMSSHFPILNHKVNVQFKYRPFKVNELNLEGEFGRE
LQHKFRLMRNSQMEVEEVRPFKMHGNSDIKLMANDLDIDYDLKSEFKYESNKGTPIELQY
KVSGKDRSKRAAEMNAEDVEGVIDYKNSGSPIDSKMHAHLKVKGNNYGYDSELKQTEPQQ
YEGKMTLSKNDKKIFITHKTEMTKPTSTFLLKTDADVSYSESDMKKHYHMEFKKENDIYT
LRSTVERDGQLFYENYLTVHKGGKLNLNYRRNDRKILLDLDNALSPREGTMKLNIKDREY
NFVLKRDPMRYRDITVEGNENAYVKNGKLHLSLIDPSTLSLVTKADGQIDMTVDLISPIT
KRASLKVDSKKYNLFHEGELSASLVNPRLSWHQYTKRDSREYKTDVDLSLRSSDIAVKIT
MPDYNSKIHYSRQNDQISMDIDGTLIEGHAKGTIKEGKIHIKGRQSDFEIESNYRYEDGK
MLIEPVKSENGKLEGVLSRKVPSHLTLETPRVKMNMQYDRHSPVKMFKLDYDGIHLEKHT
DLLYEPGVQYKIIGNGKIKDDGSHYSIDIQGKPRKAFKLDADMMNFKLNVNKPEDSNKAQ
FSYTFNDYTETEEYEFDPHRAYYINWISSIRKYIQNFIVEDH

>CAC84590.2 Allergen tropomyosin [Lepisma saccharina]
MEAIKKKMQAMKLEKDNAMDKADALEAQARDANRKADKILEEVQDLKKKPSQVETDFTTT
KENLATANKNLEDKEKTLTNTESEVASLNRKVQMIEENLERSEERLGTALTKLGEASHAA
DEASRMCKVLENRSQQDEERMDQLTNQLKEARMLAEDADGKSDEVSRKMAQVEDDLEVAE
DRVKSGDSKIMELEEELKVVGNSLKSLEVSEEKANQRVEEYKRQIKTLTVKLKEAEARAE
YAEKYVKKLQKEVDRLEDELGINKDRYRALADEMDQTFAELSGY

>CAC84593.2 Allergen troposmyosin [Lepisma saccharina]
MEAIKKKMQAMKLEKDNAVDRARQNEQEAKDANLRAEKAEEEARSLQKKIQTIENELDQT
QEQLMQVNAKLEEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATQKLAEASQAA
DESERMRKVLENRSLADEERMDALENQLKEARFLAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREEEYKQQIKTLTTRLKEAEARAC
WLL

>CAC83046.1 Putative parvalbumin alpha [Rana esculenta]
MPMTDLLAAGDISKAVSAFAAPESFNHKKFFELCGLKSKSKEIMQKVFHVLDQDQSGFIE
KEELCLILKGFTPEGRSLSDKETTALLAAGDKDGDGKIGVDEFVTLVSES

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

>CAC95152.1 Putative parvalbumin beta protein [Rana esculenta]
MSITDIVSEKDIDAALESVKAAGSFNYKIFFQKVGLAGKSAADAKKVFEILDRDKSGFIE
QDELGLFLQNFRASARVLSDAETSAFLKAGDSDGDGKIGVEEFQALVKA

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

MSITDIVSEKNIEAALESVKAEGSFEYKCFFQKVGLAGKSADDAKKVFEILDRDKSGYIE
KDELCLFLQNFKSSARALNDAETSAFLKAGDSDGDGKIGVEEFQALVKA

>AAM33821.1 Allergen alkaline serine protease [Penicillium chrysogenum]
MGFLKLLSTSLATLAVVNAGKLLTANDGDEVVPSSYIVVMNDGVSTAQFETHRNWAANVH
ARTRSLKGGESGPGKHFDINGMKGYSASFDDRTVKDIASDPTVKYVEPDMVVNATANVVQ
RNAPSWGLSRISSKKSGATDYVYDSTAGEGIVIYGVDTGIDIGHADFGGRAEWGTNTADN
DDTDGNGHGTHTASTAAGSKFGVAKKASVVAVKVLGADGSGTNSQVIAGMDWAVKDSKSR
GATGKSVMNMSLGGAYSRAMNDAAANVVRSGVFLSVAAGNEAQDASNSSPASAPNVCTIA
ASTNSDGSASFTNFGSVVDLYAPGKDITAAYPGGGSKTLSGTSMAAPHVAGAAAYLMALE
GVTSDKACARIVELAISSISSAPSGTTSKLLYNGINAQ

>CAD32313.1 Putative Lep D 2 precursor [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRGEKMTLEAKFAANQ
DTAKVTIKVLTKVAGTTIQVPGLETDGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAELIGDHGVMACGTVHGQVE

>CAD32314.1 Putative Lep D 2 precursor [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETDGCKVLKCPIKKGEALDFNYGMTIPAITPKIKVDV
TAELVGDHGVMACGTIHGQVE

>AAM43909.1 Putative large subunit ribosomal protein L3 [Aspergillus fumigatus]
MSHRKYEAPRHGSLAFLPRKRAARHRGKVKSFPKYDPKKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWYKSKKKAFTKYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPLKQKKAHLM
EIQVNGGSVADKVDFARNLFEKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTKKLP
RKTHKGLRKVACIGAWHPSHVQWTVARAGQMGYHHRTSCNHKVFRIGKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKNDYIMVKGSVPGVKKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPEEKRAFMGTLKKDLVTSA

>AAM46958.1 Allergen allergen Arah3/Arah4 [Arachis hypogaea]
MGKLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR
RHQSQRPPRRFQGQDQSQQQQDSHQKVHRFDEGDLIAVPTGVAFWMYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRRRSLPYSPYSPQTQPKQEDREFSPRG
QHGRRERAGQEQENEGGNIFSGFTPEFLAQAFQVDDRQILQNLRGENESDEQGAIVTVRG
GLRILSPDRKRRQQYERPDEEEEYDEDEYEYDEEERQQDRRRGRGSRGSGNGIEETICTA
SFKKNIGRNRSPDIYNPQAGSLKTANELQLNLLILRWLGLSAEYGNLYRNALFVPHYNTN
AHSIIYALRGRAHVQVVDSNGDRVFDEELQEGHVLVVPQNFAVAGKSQSENFEYVAFKTD
SRPSIANLAGENSFIDNLPEEVVANSYGLPREQARQLKNNNPFKFFVPPSEQSLRAVA

>CAD10390.1 Putative profilin [Phoenix dactylifera]
MSWQAYVDEHLMCEIDGHHLTAAAILGHDGSVWAQSSSFPQFKSEEITNIMNDFNEPGSL
APTGLYLGSTKYMVIQGEPGAVIRGKKGSGGVTVKKTNQALIFGIYEEPMTPGQCNMVVE
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]
MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEEPKEAEPVAVSEEPKEADD
APAEVAVETKEVVEVEEAKTVTEEPTVEKTEEEEETPKEETPEPVVVKETPKEEPAAETV

VVEAPKETTEAATEAEAPAPESAPASASETPAEEEVPKEEEGDEKKSEAEVEAEKTE

>AAM64112.1 Putative gelsolin-like allergen Der f 16 [Dermatophagoides farinae]
MAAHDKNFDVIPIGHTFFFIWRIKQFELVPVPKEDYGKFYKGDCYIVACCTENPTGGHSK
MESKPILNGHGYCHIHFWIGSESTKDEAGVAAIKSVELDDFLGGYPVQHREIEEFESRQF
SSYFKNGIIYLKGGYESGFTKMIDELKPSLLHVKGKKRPIVYECAEISWKVMNNGDVFIL
LVPNFVFVWTGKHSNRMERTTAIRVANDLKSELNRFKLSSVILEDGKEVEQTSGAEYDAF
NKALSLDKKDIDLKQMPKGYDYAASDKSFESHERSFVTLYKCFEGTETIDISFVKNGPLS
RADLDTNDTFIVENGSEGLWVWVGKKATQKERQSAIKYAMELINKKKYPNNTPVTKVLEG
DESVEFKSLFESWQMSEQEKITSARLFRVSRNGIFKQVANYEPDDLEEDNIMILDVMDKI
YVWIGNQFAERIADEAHVDKVAQRFIQEDKSGRKFQPNQIIKLKQGSEDGAFKSYFPKWN

>AAM73729.1 Putative vicilin-like protein [Anacardium occidentale]
PPTKFSFSLFLVSVLVLCLGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVKECEKYYK
EKKGREREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQQKQLCRFRCQER
YKKERGQHNYKREDDEDEDEDEAEEEDENPYVFEDEDFTTKVKTEQGKVVLLPKFTQKSK
LLHALEKYRLAVLVANPQAFVVPSHMDADSIFFVSWGRGTITKILENKRESINVRQGDIV
SISSGTPFYIANNDENEKLYLVQFLRPVNLPGHFEVFHGPGGENPESFYRAFSWEILEAA
LKTSKDTLEKLFEKQDQGTIMKASKEQVRAMSRRGEGPKIWPFTEESTGSFKLFKKDPSQ
SNKYGQLFEAERIDYPPLEKLDMVVSYANITKGGMSVPFYNSRATKIAIVVSGEGCVEIA
CPHLSSSKSSHPSYKKLRARIRKDTVFIVPAGHPFATVASGNENLEIVCFEVNAEGNIRY
TLAGKKNIIKVMEKEAKELAFKMEGEEVDKVFGKQDEEFFFQGPEWRKEKEGRADE

>CAD32318.1 Allergen major allergen d 1 [Malus x domestica]
GVYTYENEYTSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAEILEGDGGPGTIKKITFGE
GSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHYH
TKGDVEIMEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>CAD38361.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38362.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38363.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQGIEYIQHNGVVQESYYRYVAQEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38364.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMQTVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQQDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38365.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQQDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38366.1 Allergen Cysteine protease-like protein product [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38367.1 Allergen Cysteine protease-like protein product [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMQTVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAQEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQEDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38368.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQEQSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38369.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQGIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38370.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQEQSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38371.1 Allergen Cysteine protease-like [Dermatophagoides pteronyssinus]
TNACSINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQGIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVDYWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>CAD38372.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPLVNGQQYDIKYTWNVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIRD

>CAD38373.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG

LSVDVPGIDPNACHYMNCPLVNGQQYDIKYTWNVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38374.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LEVDVPGIDPNACHYMNCPLVNGQQYDIKYTWNVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>CAD38375.1 Allergen mite allergen Der f II-like [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSKTAKIEIKASIDG
LSVDVPGIDPNACHYMNCPLVNGQQYDIKYTWNVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

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

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

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

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

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

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

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

>CAD38384.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38385.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38386.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38387.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSEALRKIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38388.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38389.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38390.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38391.1 Allergen Group V allergen-like protein product [Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38392.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38393.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSEALRKIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38394.1 Allergen Group V allergen-like protein product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFNDAIKASTGGAYESYKFIGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38395.1 Allergen Group 5 allergen-like [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38396.1 Allergen Group 5 allergen-like [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYKFIGALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38397.1 Allergen Group 5 allergen-like [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>CAD38166.1 Allergen putative nuclear transport factor 2 [Davidiella tassiana]
MSDFNAIAQQFTEFYYKTFDTDRAQLAPLYRENSMLTFEQSPFLGTANIVGKLQELPFQR
IEHQVATVDAQPSNESGGILVVVSGALLVEEERRPMSYTQTFQLLPADGAYYVFNDVFRL
VYPAA

>CAD38167.1 Allergen putative nuclear transport factor 2 [Alternaria alternata]
MSDFNAIAQQFVEFYYKTFDGNRAGLGALYKEHSMLTFEAQGTQGSAAIVEKLQNLPFQE
IQHRTDTVDAQPSADDGILVLVTGALLLGGESKPMSFTQAFQLKNAEGNWFVLNDVFRLV
YPAA

>CAC84116.1 Putative peptidylprolyl isomerase (cyclophilin) [Betula pendula]
MASNPKVFFDMEVGGQPVGRIVMELYADTTPRTAENFRALCTGEKGNGRSGKPLHYKKSS
FHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPGTNGSQF
FICTAKTEWLDGKHVVFGQVVEGLDIVKAIEKVGSSSGRTSKPVVVADCGQLS

>AAM77471.1 Allergen major allergen alt a1 [Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDNASCPVTTKGDYVWKISEFYGRKPEGTYYNSLGF
NIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMDFSFDSDRSGLLLKQKVSDE

>AAM73730.2 Putative vicilin-like protein [Anacardium occidentale]
MGPPTKFSFSLFLVSVLVLCLGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVKECEKY
YKEKKGREREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQQKQLCRFRCQ
ERYKKERGQHNYKREDDEDEDEDEAEEEDENPYVFEDEDFTTKVKTEQGKVVLLPKFTQK
SKLLHALEKYRLAVLVANPQAFVVPSHMDADSIFFVSWGRGTITKILENKRESINVRQGD
IVSISSGTPFYIANNDENEKLYLVQFLRPVNLPGHFEVFHGPGGENPESFYRAFSWEILE
AALKTSKDTLEKLFEKQDQGTIMKASKEQIRAMSRRGEGPKIWPFTEESTGSFKLFKKDP
SQSNKYGQLFEAERIDYPPLEKLDMVVSYANITKGGMSVPFYNSRATKIAIVVSGEGCVE
IACPHLSSSKSSHPSYKKLRARIRKDTVFIVPAGHPFATVASGNENLEIVCFEVNAEGNI
RYTLAGKKNIIKVMEKEAKELAFKMEGEEVDKVFGKQDEEFFFQGPEWRKEKEGRADE

>AAM83103.1 Allergen paramyosin allergen [Blomia tropicalis]
MAARSAKYMYQSSRAGHGGDISIEYGTDLGALTRLEDKIRLLSEDLESERELRQRVEREK
SDITVQLMNLTERLEETEGSSESVTEMNKKRDSELAKLRKLLEDVHMESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDKEKQKFQAEVFELLAQVETANKDKLVAQKTVEKLEYTV
HELNIKIEEINRTVVEVTAHRQRLSQENSELIKEVHEYKISLDNANHLKGQIAQQLEDTR
HRLEDEERKRSSLENHAHTLEVELESLKVQLEEESEARLELERQLTKANGDAASWKSKYE
AELQAHVDEVEELRRKMAQKISEYGEQLEALLNKCSALEKQKARLQSEVEVLIMDLEKAT
AHAQALEKRVSQLEKINLDLKSKLEEVSMLLEQTQKDLRVKIADLQKLQHEYEKLRDQKE
ALARENKKLADDLAEAKSQLNDAHRRIHEQEIEIKRLENEREELAAAYKEAETLRKQEEA
KNQRLTAELAQTRHDYEKRLAQKEEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEVARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITGLQAHYDEVHRQLQQAVDQLGVTQ
RRCQALTAELEEMRVNLEQALRAKRAAEQMHEEAVVRVNELTTINVNLASAKSKLETEFS
ALQNDYDEVHKELRISDERVQKLTIEVKSTKDLLESETERVTKLETIKKSLETEVRNLQI
RIEEVEANALAGGKRVIAKLESRIRDVEIEVEEERRRHAETEKMLRKKDHRVKELLLQNE
EDHKQIQLLQEMSDKLNEKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVFVTEQESSNF

>P81430.2 Allergen Pollen allergen Ole e 7 (Ole e VII) [Olea europaea]
APSQSTVTALLTSCVSYIDDQ

>AAL07319.1 Putative Che a 1 allergen precursor [Chenopodium album]
MAKCQAVFLLVGALCVLSLAGVANAAENHFKVQGMVYCDTCRIQFMTRISTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLTSNNGEASDIRSANALGFMRKEPLKECPEVLKELDLYDVKAN

>AAM93157.1 Allergen trypsin inhibitor [Arachis hypogaea]
NYLHMLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNP
NNQEFECAGVALSRLVLRRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQ
GRRHQSQRPPRRFQGQDQSQQQQDSHQKVHRFDEGDLIAVPTGVAFWMYNDHDTDVVAVS
LTDTNNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRRRS

>BAC10663.1 Allergen serum albumin [Canis lupus familiaris]
MKWVTFISLFFLFSSAYSRGLVRREAYKSEIAHRYNDLGEEHFRGLVLVAFSQYLQQCPF
EDHVKLAKEVTEFAKACAAEESGANCDKSLHTLFGDKLCTVASLRDKYGDMADCCEKQEP
DRNECFLAHKDDNPGFPPLVAPEPDALCAAFQDNEQLFLGKYLYEIARRHPYFYAPELLY
YAQQYKGVFAECCQAADKAACLGPKIEALREKVLLSSAKERFKCASLQKFGDRAFKAWSV
ARLSQRFPKADFAEISKVVTDLTKVHKECCHGDLLECADDRADLAKYMCENQDSISTKLK
ECCDKPVLEKSQCLAEVERDELPGDLPSLAADFVEDKEVCKNYQEAKDVFLGTFLYEYAR
RHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFE
KLGEYGFQNALLVRYTKKAPQVSTPTLVEVSRKLGKVGTKCCKKPESERMSCAEDFLSVV
LNRLCVLHEKTPVSERVTKCCSESLVNRRPCFSGLEVDETYVPKEFNAETFTFHADLCTL
PEAEKQVKKQTALVELLKHKPKATDEQLKTVMGDFGAFVEKCCAAENKEGCFSEEGPKLV
AAAQAALV

>CAD42710.1 Allergen hydrophobin [Davidiella tassiana]
MAFIKSLLIASVAAVAFAAPQGGASDNNKKVEIDGQDSAPVCGNGQKVACCNSGEDLIGL
NCLSIPILAIPIQKACGSNIAACCQTGDSEGNLLNLEANCLAIPL

>AAN32987.1 Allergen pollen allergen Phl p 11 [Phleum pratense]
DKGPGFVVTGRVYCDPCRAGFETNVSHNVQGATVAVDCRPFNGGESKLKAEATTDGLGWY
KIEIDQDHQEEICEVVLAKSPDTTCSEIEEFRDRARVPLTSNNGIKQQGIRYANPIAFFR
KEPLKECGGILQAYDLRDAPETP

>BAC19997.1 Putative allergen RA5B precursor [Oryza sativa (japonica cultivar-group)]
MASNKVVFSVLLLAVVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMYPLPRCRALV
KRQCVGRGTAAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHPMSEV
FRGCRRGDLERAAASLPAFCNVDIPNGGGGVCYWLARSGY

>BAC20650.1 Putative putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MAFIKVVFSVLLPVVVSMLVATTTMADHRGQVVYTPGQLCAAGRGYPMYPLPRCRALAKR
QCAGGAVDEQVRQDCCRQLAAIDDSFCRCPALSHMLVGMYKELGAPAKGQPMDEVFPGCR
RGDMKRVAASLPAFCNVDIPIGIGGVCYWLSYPMNPATGH

>BAC20657.1 Putative allergen RA16 [Oryza sativa (japonica cultivar-group)]
MASNKVVISALLVVVVSVLAATTTMADHHQEQVVYTPGQLCQPGIGYPTYPLPRCRAFVK
RQCVAPGTVDEQVRRGCCRQLAAIDSSWCRCDALNHMLRIIYRESGAADAGHPMAEVFRG
CRRGDIERAAASLPAFCNVDIPNGVGGVCYWLPGTGY

>CAD23374.1 Allergen tri s 4 allergen [Trichophyton schoenleinii]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLLNLKNGDISVLTTDSDVSEITWLGDGTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKAGDKINFVGYGQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWDT
YVGTQFNAVFSGSLTKNGDKYSFDGKLKNLVQPVKYAESPYPPFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVPHDGSRVAEPINKRNGPRTPQGIEGASSSPVFSPDGKRI
AYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWSSDGRTLYVTAEDHAT
GKLFTLPADARDNHKPSVVKHDGSVSSFYFIGSSKSVLISGNSLWSNALYQVATPGRPNR
KLFYANEHDPELKGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIQGQDLGRKFKALVSHDGTFVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDSDFRLSVAEGVGLFNVLQEKG
IPSRFLNFPDETHWVTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVIDHEA
HSYFDY

>CAD23611.1 Allergen tri m 4 allergen [Arthroderma benhamiae]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLLNLKNGDISVLTTDSDVSEITWLGDGTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK

AGSVNGAFSGLKLAKAGDKINFVGYGQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWDT
YVGTQFNAVFSGSLTKNGDKYSFDGKLKNLVQPVKYAESPYPPFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVPHDGSRVAEPINKRNGPRTPQGIEGASSSPVFSPDGKRI
AYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWSSDGRTLYVTAEDHAT
GKLFTLPADARDNHKPSVVKHDGSVSSFYFIGSSKSVLISGNSLWSNALYQVATPGRPNR
KLFYANEHDPELKGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIQGQDLGRKFKALVSHDGTFVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDFDFRLSVAEGVGLFNVLQEKG
IPSRFLNFPDETHWVTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVIDHEA
HSYFDY

>CAD23613.1 Allergen tri m 2 allergen [Arthroderma benhamiae]
NHDDVDYIEPDFVVRTSTNGTNLTRQENVPSWGLARVGSKKAGGTTYYYDSSAGKGVTAY
IIDTGIDINHEDFGGRAKWGKNFVDKMDEDCNGHGTHVAGTVGGTKYGLAKGVTLVAVKV
LDCDGSGSNSGVIEGMEWAMREASGGGNGTAKAAGKAVMNMSLGGPRSQASNDAAKAISD
AGIFMAVAAGNENMDAQHSSPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITS
LKPGGSTDTLSGTSMASPHVCGLGAYLIGLGKQGGPGLCDTIKEMANEAIQR

>CAD23614.1 Allergen tri m 2 allergen [Arthroderma benhamiae]
FITKAIPIVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTTWLSQNLN
RRLMRRSGSSKAMAGMQNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNLTRQENVPSWGLARVGSKQAGGTTYYYDSSAGKGVTAYVIDTGIDIEHEDFGGRAK
WGKNFVDQRDEDCNGHGTHVAGTVGGTKYGLAKSVSLVAVKVLDCDGSGSNSGVIRGMEW
AMREASGGNGTAKAAGKSVMNMSLGGPRSQASNDAARAISEAGIFMAVAAGNENMDAQHS
SPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMASPH
VCGLGAYLIGLGKQGGPGLCDTIKQMANEAIQRPGEGTTGKLIY

>P00630.3 Allergen Phospholipase A2 precursor (Phosphatidylcholine 2-acylhydrolase) (Allergen Api m 1) (Api m I) [Apis mellifera]
MQVVLGSLFLLLLSTSHGWQIRDRIGDNELEERIIYPGTLWCGHGNKSSGPNELGRFKHT
DACCRTHDMCPDVMSAGESKHGLTNTASHTRLSCDCDDKFYDCLKNSADTISSYFVGKMY
FNLIDTKCYKLEHPVTGCGERTEGRCLHYTVDKSKPKVYQWFDLRKY

>AAL91662.1 Allergen profilin [Prunus dulcis]
MSWQQYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>AAL91665.1 Putative 2s albumin [Anacardium occidentale]
MAKFLLLLSAFAVLLLVANASIYRAIVEVEEDSGREQSCQRQFEEQQRFRNCQRYVKQEV
QRGGRYNQRQESLRECCQELQEVDRRCRCQNLEQMVRQLQQQEQIKGEEVRELYETASEL
PRICSISPSQGCQFQSSY

>P83340.1 Allergen Major allergen Epi p 1 (EpI n I4625) [Epicoccum nigrum]
ADGIVAVELDTYRGSFXK

>BAC23082.1 Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDSDIEQYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKNINLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAC23083.1 Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAVEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAC23084.1 Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>P83181.1 Allergen RecName: Full=Pollen allergen Sal k 1; AltName:
Allergen=Sal k 1 [Salsola kali]
PTITIGGPEYRTIFFDAYLGTSYVIVIKEPAEEFTTISDAVK

>P83332.1 Allergen RecName: Full=Thaumatin-like protein 1; AltName:
Full=PpAZ44; Flags: Precursor [Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFELATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMSVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDGSVIAC
KSACLAFNQPKYCCTPPNDKPETCPPPDYSKLFKTQCPQAYSYAYDDKSSTFTCSGRPAY
LITFCP

>P83335.1 Allergen RecName: Full=Thaumatin-like protein 2; AltName:
Full=PpAZ8; Flags: Precursor [Prunus persica]
MMKTLGAVLSLSLTLLSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFELASQASFQ
LDTPVPWSGRFWARTRCSTDASGKFVCETADCDSGQLMCNGKTGIPPATLAEFTIAAGGG
QDFYDVSLVDGFNLPMSVTPQGGTGTCKMGSCAANVNLVCPSELQKIGSDGSVVACLSAC
VKFGEPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYSYAFDDNKGLFTCSGGPNYLITF
CP

>P83377.1 Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Pol g 5)
[Polistes gallicus]
NDYCKIKCSSGVHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKKLIVEEHNRFRQKVAQG
LETRGNPGPQPAASNMNNLVWNDEQAKIAQVWASQCQILVHDKCRNTEKYQVGQNIAYAG
SSNHFPSVTKLIQLWENEVKDFNYNTGITNKNFGKVGHYTQMVWGNTKEVGCGSLKYVEK
NMKIHYLICNYGPAGNYLGQPIYTKK

>AAN73248.1 Putative helix-loop-helix protein [Fusarium culmorum]
MAGDHAGDQSFYDFLIEEPEMIAPTPPGQFPHQQPISSPNRTSRNTPLRPESTEIETHHH
ANHPPALPVLGMQLPVPGTVPESSRAQSRASLNLDIDLDLHAPSHPSHLSHGAPHEQEHA
HEIQRHRAHSAQSSAGLPPTGFASHLPPASSGPVSLGWNMYHVPPNLHLNANQFNFEVPG
HMNVSGHPTHLEHSSTNPNSFHYEHNIVSPSSIHPSTAHFDGEVPSQWDDSLGHGASTPK
VRTPSHHVSSNPWAEINEPTGGDNDNLAPVTRPRKPARARRQKKEPRKLSDASQGARSSS
TGGTAHSVSDAASPSSTSHQSRASLTSKSASMTSAASTASSRKSKLRSASRTSKNTLDKP
NDTAEDRRTRASHNLVEKQYRNRLNAQFESLLHALPEQIRHGDNGGGNGNVDNESEQAND

LDRRVSKGEVLEMARRHIEALERERNQLGT

>CAD12861.1 Putative profilin [Artemisia vulgaris]
MSWQTYVDDHLMCDIEGTGQHLTSAAIFGTDGTVWAKSASFPEFKPNEIDAIIKEFNEAG
QLAPTGLFLGGAKYMVIQGEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQCNMV
VERLGDYLLDQGM

>CAD12862.1 Putative profilin [Artemisia vulgaris]
MSWQTYVDDHLMCDIEGTGQHLTAAAILGLDGTVWAKSDKFPEFKPEEMKGIINEFNEVG
TLAPTGLFLGGAKYMVLQGEAGAVIRGKKGAGGICIKKTGQAMVMGIYDEPVAPGQCNMI
VERLGDYLVDQNM

>AAM10779.1 Putative trypsin [Blomia tropicalis]
MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVGGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAAHCIQGLSASSLTTRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPEQGSDPKASSEVLITGWGTLSSGASSLPTKLQKVTVP
IVDRKTCNANYGAVGAEITDNMFCAGILNVGGKDACQGDSGGPVAANGVLVGAVSWGYGC
AQAKYPGVYTRVGNYISWIKGKGVPV

>AAN76862.1 Allergen allergen Ana 0 2 [Anacardium occidentale]
LSVCFLILFHGCLASRQEWQQQDECQIDRLDALEPDNRVEYEAGTVEAWDPNHEQFRCAG
VALVRHTIQPNGLLLPQYSNAPQLIYVVQGEGMTGISYPGCPETYQAPQQGRQQGQSGRF
QDRHQKIRRFRRGDIIAIPAGVAHWCYNEGNSPVVTVTLLDVSNSQNQLDRTPRKFHLAG
NPKDVFQQQQQHQSRGRNLFSGFDTELLAEAFQVDERLIKQLKSEDNRGGIVKVKDDELR
VIRPSRSQSERGSESEEESEDEKRRWGQRDNGIEETICTMRLKENINDPARADIYTPEVG
RLTTLNSLNLPILKWLQLSVEKGVLYKNALVLPHWNLNSHSIIYGCKGKGQVQVVDNFGN
RVFDGEVREGQMLVVPQNFAVVKRAREERFEWISFKTNDRAMTSPLAGRTSVLGGMPEEV
LANAFQISREDARKIKFNNQQTTLTSGESSHHMRDDA

>CAD20556.1 Allergen putative invertase inhibitor precursor [Platanus x acerifolia]
MKLSFSLCIFFFNLLLLLQAVISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHTAD
LQGLGVISANLAIQHGSKIQTFIGRILKSKVDPALKKYLNDCVGLYADAKSSVQEAIADF
KSKDYASANVKMSAALDDSVTCEDGFKEKKGIVSPVTKENKDYVQLTAISLAITKLLGA

>AAN77576.1 Allergen allergen Ara h 2.02 [Arachis hypogaea]
MAKLTILVALALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSY
GRDPYSPSQDPYSPSQDPDRRDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRCMCEA
LQQIMENQSDRLQGRQQEQQFKRELRNLPQQCGLRAPQRCDLEVESGGRDRY

>AAN86249.1 Putative recombinant Ib pronapin precursor [Brassica napus]
QPQKCQREFQQEQHLRACQQWIRQQLAGSPFSENQWGPQQGPSLREQCCNELYQEDQVCV
CPTLKQAAKSVRVQGQHGPFQSTRIYQIAKNLPNVCNMKQIGTCPFIAI

>AAO15607.1 Putative glutathione S-transferase [Sarcoptes scabiei type hominis]
MSSKPTLGYWDLRGLGQSIRILLTYAGVDFVDKRYKIGSAPDFDRGEWLNDKFNLGLDFP
NLPYYIEGDVKLTQSIAILRYLGRKHKLDGQNEQEWRRITLCEQQIMDLLMALARICYDP
NFEKLKLDLVAKLPDDLKLFSKFLGDHQFVAGTNISYIDFLVYEYLIRVKIFAPEIFTKF
PNLNSYITRIESMPKISAYIKQQEPQLFNGPMAKWNTKY

>AAO15613.1 Putative major allergen 1 [Sarcoptes scabiei type hominis]
FVELKKDKDLYSMKSNVKRNNEIFYENNMDLEKNGKMNWYYKRNDRTWNMDLDNAFNPRD
GTMKLQVKDRIYDIKLKREPFRYGDLHIEGNENALIKKGDLHMSLVDPLTLNVLTKNDGI
VDMTLDLVSPNTKKAALKINSKKYDLDHDGEITVSIFNPRMTWKHHTRKGDMELNIDADI
TRKGSLITYSRKEPDDSTKVRYSRQGNQVSMEVDSKLIEGHANGTLTDGKIHVKGRESDF
EIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMNMKYDRFAPVKILK
LDYDGLNYEKHIDAEYEPSNHYKYFTDGKS

>AAO15713.1 Allergen allergen Pen m 2 [Penaeus monodon]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSPLFDPIIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTARASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>CAD24068.1 Putative class I chitinase [Hevea brasiliensis subsp. brasiliensis]
EQCGRQAGGALCPGGLCCSQYGWCANTPEYCGSGCQSQCDGGVGGEGGCVDLGSIISRST
FEEMLKHRNNAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHATTG
GWPTAPDGPYAWGYCHKEELNQASSYCSPSPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNNPDLVATDRVISFKAAIWFWMTPQFPKPSCHDVITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGSGWDARVEDRIGFYKRYCDMFGVGYGSNLDCYNQTPFGLG

>CAD37201.1 Allergen profilin [Prunus persica]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>CAD37202.1 Allergen profilin [Prunus persica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTVKKSTLALLIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>BAC53948.1 Allergen Der f 1 allergen preproenzyme [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVVIM

>AAM19082.1 Putative 60 kDa allergen Der f 18p [Dermatophagoides farinae]
MTRFSLTVLAVLAACFGSNIRPNVATLEPKTVCYYESWVHWRQGEGKMDPEDIDTSLCTH
IVYSYFGIDAATHEIKLLDEYLMKDLHDMEHFTQHKGNAKAMIAVGGSTMSDQFSKTAAV
EHYRETFVVSTVDLMTRYGFDGVMIDWSGMQAKDSDNFIKLLDKFDEKFAHTSFVMGVTL
PATIASYDNYNIPAISNYVDFMNVLSLDYTGSWAHTVGHASPFPEQLKTLEAYHKRGAPR
HKMVMAVPFYARTWILEKMNKQDIGDKASGPGPRGQFTQTDGFLSYNELCVQIQAETNAF
TITRDHDNTAIYAVYVHSNHAEWISFEDRHTLGEKAKNITQQGYAGMSVYTLSNEDVHGV
CGDKNPLLHAIQSNYYHGVVTEPTVVTLPPVTHTTEHVTDIPGVFHCHEEGFFRDKTYCA
TYYECKKGDFGLEKTVHHCANHLQAFDEVSRTCIDHTKIPGC

>NP_776945.1 Allergen collagen alpha-2(I) chain precursor [Bos taurus]
MLSFVDTRTLLLLAVTSCLATCQSLQEATARKGPSGDRGPRGERGPPGPPGRDGDDGIPG
PPGPPGPPGPPGLGGNFAAQFDAKGGGPGPMGLMGPRGPPGASGAPGPQGFQGPPGEPGE
PGQTGPAGARGPPGPPGKAGEDGHPGKPGRPGERGVVGPQGARGFPGTPGLPGFKGIRGH
NGLDGLKGQPGAPGVKGEPGAPGENGTPGQTGARGLPGERGRVGAPGPAGARGSDGSVGP
VGPAGPIGSAGPPGFPGAPGPKGELGPVGNPGPAGPAGPRGEVGLPGLSGPVGPPGNPGA
NGLPGAKGAAGLPGVAGAPGLPGPRGIPGPVGAAGATGARGLVGEPGPAGSKGESGNKGE
PGAVGQPGPPGPSGEEGKRGSTGEIGPAGPPGPPGLRGNPGSRGLPGADGRAGVMGPAGS
RGATGPAGVRGPNGDSGRPGEPGLMGPRGFPGSPGNIGPAGKEGPVGLPGIDGRPGPIGP
AGARGEPGNIGFPGPKGPSGDPGKAGEKGHAGLAGARGAPGPDGNNGAQGPPGLQGVQGG
KGEQGPAGPPGFQGLPGPAGTAGEAGKPGERGIPGEFGLPGPAGARGERGPPGESGAAGP

TGPIGSRGPSGPPGPDGNKGEPGVVGAPGTAGPSGPSGLPGERGAAGIPGGKGEKGETGL
RGDIGSPGRDGARGAPGAIGAPGPAGANGDRGEAGPAGPAGPAGPRGSPGERGEVGPAGP
NGFAGPAGAAGQPGAKGERGTKGPKGENGPVGPTGPVGAAGPSGPNGPPGPAGSRGDGGP
PGATGFPGAAGRTGPPGPSGISGPPGPPGPAGKEGLRGPRGDQGPVGRSGETGASGPPGF
VGEKGPSGEPGTAGPPGTPGPQGLLGAPGFLGLPGSRGERGLPGVAGSVGEPGPLGIAGP
PGARGPPGNVGNPGVNGAPGEAGRDGNPGNDGPPGRDGQPGHKGERGYPGNAGPVGAAGA
PGPQGPVGPVGKHGNRGEPGPAGAVGPAGAVGPRGPSGPQGIRGDKGEPGDKGPRGLPGL
KGHNGLQGLPGLAGHHGDQGAPGAVGPAGPRGPAGPSGPAGKDGRIGQPGAVGPAGIRGS
QGSQGPAGPPGPPGPPGPPGPSGGGYEFGFDGDFYRADQPRSPTSLRPKDYEVDATLKSL
NNQIETLLTPEGSRKNPARTCRDLRLSHPEWSSGYYWIDPNQGCTMDAIKVYCDFSTGET
CIRAQPEDIPVKNWYRNSKAKKHVWVGETINGGTQFEYNVEGVTTKEMATQLAFMRLLAN
HASQNITYHCKNSIAYMDEETGNLKKAVILQGSNDVELVAEGNSRFTYTVLVDGCSKKTN
EWQKTIIEYKTNKPSRLPILDIAPLDIGGADQEIRLNIGPVCFK

>NP_776953.1 Allergen alpha-S2-casein precursor [Bos taurus]
MKFFIFTCLLAVALAKNTMEHVSSSEESIISQETYKQEKNMAINPSKENLCSTFCKEVVR
NANEEEYSIGSSSEESAEVATEEVKITVDDKHYQKALNEINQFYQKFPQYLQYLYQGPIV
LNPWDQVKRNAVPITPTLNREQLSTSEENSKKTVDMESTEVFTKKTKLTEEEKNRLNFLK
KISQRYQKFALPQYLKTVYQHQKAMKPWIQPKTKVIPYVRYL

>AAO24900.1 Allergen major pollen allergen Art v 1 precursor [Artemisia vulgaris]
MAKCSYVFCAVLLIFIVAIGEMEAAGSKLCEKTSKTYSGKCDNKKCDKKCIEWEKAQHGA
CHKREAGKESCFCYFDCSKSPPGATPAPPGAAPPPAAGGSPSPPADGGSPPPPADGGSPP
VDGGSPPPPSTH

>NP_776719.1 Allergen kappa-casein precursor [Bos taurus]
MMKSFFLVVTILALTLPFLGAQEQNQEQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYG
LNYYQQKPVALINNQFLPYPYYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKKNQDKTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEI
NTVQVTSTAV

>AAO25113.1 Allergen major allergen Mal d 1 [Malus x domestica]
MGVFTYESEFTSVIPPARLFNAFVLDADNLIPKIAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFKLIENYLLEHPDAYN

>AAO32314.1 Putative putative allergen I1 [Carya illinoinensis]
MARVAALLVALLFVANAAAFRTTITTMEIDEDIDNPRRRGESCREQIQRQQYLNRCQDYL
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 Putative putative heat shock protein [Malassezia sympodialis]
MSSVVGLDIGNSSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGSLKRLIGRTFQDESIQTYEKPFVNAELVDAKGEVGVKVRFQNEEHIFSATQLLA
MYLGKLLDTTQNELGGSGVSDVVLSVPIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSPRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFAEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQSGLTKDEIHSVELVGGSSRVPALKERIAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPIKVSWEPAPDVPDEENELV
VFNTNNPVPSTKILTFYRKEPFSLDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPVVDPNAAEDAEPKTEKKIVKKLQRKDDLP

IVSGIGLLDPTLLAELKEREGQMYAADKLVADTEDRKNALEEYIYDTRSKLDERYATFVQ
SEEKEKLLAMLAESEDWLYTEEGEDATKSAYVSRLETLQKVGAPIHFRWKEHEERPKAAA
QLREVVNKYMSVFENEPEKYDHLSDDDKTKVIEKAATVGKWLDDYMYKQSELPKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>CAD68071.1 Putative manganese superoxide dismutase [Malassezia sympodialis]
PFYPIPSALPFPLPIHSLFSRRTRLFRFSRTAARAGTEHTLPPLPYEYNALEPFISADIM
MVHHGKHHQTYVNNLNASTKAYNDAVQAQDVLKQMELLTAVKFNGGGHVNHALFWKTMAP
QSQGGGQLNDGPLKQAIDKEFGDFEKFKAAFTAKALGIQGSGWCWLGLSKTGSLDLVVAK
DQDTLTTHHPIIGWDGWEHAWYLQYKNDKASYLKQWWNVVNWSEAESRYSEGLKASL

>AAO45607.1 Putative beta-expansin 9 protein [Zea mays]
MGSLANNIMVVGAVLAALVVGGSCGPPKVPPGPNITTNYNGKWLTARATWYGQPNGAGAP
DNGGACGIKNVNLPPYSGMTACGNVPIFKDGKGCGSCYEVRCKEKPECSGNPVTVFITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKLRHCGIMDVEFRRVRCKYPAGQKIVFHIEKGC
NPNYVAVLVKFVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTS
ESGKKVIAKDIIPANWRPDAVYTSNVQFY

>AAO45608.1 Putative beta-expansin 1 protein [Zea mays]
MGSLANNIMVVGAVLAALVAGGSCGPPKVPPGPNITTNYNGKWLTARATWYGQPNGAGAP
DNGGACGIKNVNLPPYSGMTACGNVPIFKDGKGCGSCYEVRCKEKPECSGNPVTVYITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKIRHCGIMDVEFRRVRCKYPAGQKIVFHIEKGC
NPNYLAVLVKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>CAD69036.1 Allergen Der p 5-like protein product [Dermatophagoides pteronyssinus]
MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDFLLMERIHEQIKKGELALFYLQEQINHFE
EKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRLMQRKDLDIFEQYNLEMLKKSGDILERDL
KKEEARVKNIEV

>CAD46559.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEGGAVIRGKKGSGGVTVKKTGQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>CAD46560.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGVVIRGKKGPGGVTVKKSTMASLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>CAD46561.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGYRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTPGQCNIVVE
RLGDYLIEQGL

>1L3P_A Allergen Chain A, Crystal Structure Of The Functional Domain Of The Major Grass Pollen Allergen Phl P 5b [Phleum pratense]
IPAGELQIIDKIDAAFKVAATAAATAPADDKFTVFEAAFNKAIKETTGGAYDTYKCIPSL
EAAVKQAYAATVAAAPQVKYAVFEAALTKAITAMSEVQKVSQ

>CAD80019.1 Putative Group 1 allergen-like [Plantago lanceolata]
MVKLTQVAAILLIGAFFLIASTSIATQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAG
AQVQL

>AAO65960.1 Putative oleosin [Corylus avellana]
MAEHPRQLQDPAHQPRSHQVVKAATAATAGGSLLVPSGLILAGTVIALTLATPLFVIFSP

VLVPAVITVSLIIMGFLASGGFGVAAVTVLSWIYRYVTGRHPPGADQLDHARMKLASKAR
EMKDRAEQFGQQHVTGSQGS

>CAD82911.1 Allergen precursor Can f II [Canis familiaris]
STFCLGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHFRVFIHSM
SAKDGNLHGDILIPQDGQCEKVSLTAFKTATSNKFDLEYWGHNDLYLAEVDPKSYLILYM
INQYNDDTSLVAHLMVRDLSRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRCQGSRD

>CAD82912.1 Allergen precursor Can f II [Canis familiaris]
QLLLLTVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLTKPWGHFRVFIH
SMSAKDVNLHGDILIPQDGQCEKVSLTAFKTATSNKFDLEYWGHNDLYLAEVDPKSYLIL
YMINQYNDDTSLVAHLMVRDLSRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRCQGSRD

>CAD56944.1 Putative vitellogenin precursor [Apis mellifera]
MLLLLTLLLFAGTVAADFQHNWQVGNEYTYLVRSRTLTSLGDLSDVHTGILIKALLTVQA
KDSNVLAAKVWNGQYARVQQSMPDGWETEISDQMLELRDLPISGKPFQIRMKHGLIRDLI
VDRDVPTWEVNILKSIVGQLQVDTQGENAVKVNSVQVPTDDEPYASFKAMEDSVGGKCEV
LYDIAPLSDFVIHRSPELVPMPTLKGDGRHMEVIKIKNFDNCDQRINYHFGMTDNSRLEP
GTNKNGKFFSRSSTSRIVISESLKHFTIQSSVTTSKMMVSPRLYDRQNGLVLSRMNLTLA
KMEKTSKPLPMVDNPESTGNLVYIYNNPFSDVEERRVSKTAMNSNQIVSDNSLSSSEEKL
KQDILNLRTDISSSSSSISSSEENDFWQPKPTLEDAPQNSLLPNFVGYKGKHIGKSGKVD
VINAAKELIFQIANELEDASNIPVHATLEKFMILCNLMRTMNRKQISELESNMQISPNEL
KPNDKSQVIKQNTWTVFRDAITQTGTGPAFLTIKEWIERGTTKSMEAANIMSKLPKTVRT
PTDSYIRSFFELLQNPKVSNEQFLNTAATLSFCEMIHNAQVNKRSIHNNYPVHTFGRLTS
KHDNSLYDEYIPFLERELRKAHQEKDSPRIQTYIMALGMIGEPKILSVFEPYLEGKQQMT
VFQRTLMVGSLGKLTETNPKLARSVLYKIYLNTMESHEVRCTAVFLLMKTNPPLSMLQRM
AEFTKLDTNRQVNSAVKSTIQSLMKLKSPEWKDLAKKARSVNHLLTHHEYDYELSRGYID
EKILENQNIITHMILNYVGSEDSVIPRILYLTWYSSNGDIKVPSTKVLAMISSVKSFMEL
SLRSVKDRETIISAAEKIAEELKIVPEELVPLEGNLMINNKYALKFFPFDKHILDKLPTL
ISNYIEAVKEGKFMNVNMLDTYESVHSFPTETGLPFVYTFNVIKLTKTSGTVQAQINPDF
AFIVNSNLRLTFSKNVQGRVGFVTPFEHRHFISGIDSNLHVYAPLKISLDVNTPKGNMQW
KIWPMKGEEKSRLFHYSVVPFVSNHDILNLRPLSMEKGTRPMIPDDNTSLALPKNEGPFR
LNVETAKTNEEMWELIDTEKLTDRLPYPWTMDNERYVKVDMYMNLEGEQKDPVIFSTSFD
SKVMTRPDTDSENWTPKMMAVEPTDKQANSKTRRQEMMREAGRGIESAKSYVVDVRVHVP
GESESETVLTLAWSESNVESKGRLLGFWRVEMPRSNADYEVCIGSQIMVSPETLLSYDEK
MDQKPKMDFNVDIRYGKNCGKGERIDMNGKLRQSPRLKELVGATSIIKDCVEDMKRGNKI
LRTCQKAVVLSMLLDEVDISMEVPSDALIALYSQGLFSLSEIDNLDVSLDVSNPKNAGKK
KIDVRAKLNEYLDKADVIVNTPIMDAHFKDVKLSDFGFSTEDILDTADEDLLINNVFYED
ETSCMLDKTRAQTFDGKDYPLRLGPCWHAVMTTYPRINPDNHNEKLHIPKDKSVSVLSRE
NEAGQKEVKVLLGSDKIKFVPGTTSQPEVFVNGEKIVVSRNKAYQKVEENEIIFEIYKMG
DRFIGLTSDKFDVSLALDGERVMLKASEDYRYSVRGLCGNFDHDSTNDFVGPKNCLFRKP
EHFVASYALISNQCEGDSLNVAKSLQDHDCIRQERTQQRNVISDSESGRLDTEMSTWGYH
HNVNKHCTIHRTQVKETDDKICFTMRPVVSCASGCTAVETKSKPYKFHCMEKNEAAMKLK
KRIEKGANPDLSQKPVSTTEELTVPFVCKA

>BAC66618.1 Putative parvalbumin [Scomber japonicus]
MAFASVLKDAEVTAALDGCKAAGSFDHKKFFKACGLSGKSTDEVKKAFAIIDQDKSGFIE
EEELKLFLQNFKAGARALSDAETKAFLKAGDSDGDGKIGIDEFAAMIKG

>AAL92578.1 Allergen allergen Ole e 10 [Olea europaea]
MRGTAGVPDQPVPTPTPSVPTSSSPVPKPPTQGNKKWCVPKAEATDAQLQSNIDYVCSQS
GMDCGPIQANGACFNPNTVRAHASYAMNSWYQSKGRNDFDCDFSGTGAITSSDPSNGSCS
FLS

>AAL92870.1 Allergen pollen allergen Che a 2 [Chenopodium album]
MSWQTYVDDHLMCDIEGNHLSSAAILGHDGTVWAQSPSFPQLKPEEVSAIMKDFNEPGSL
APTGLHLGGTKYMVIQGEPGDVIRGKKGPGGVTIKKTNQALIIGIYGEPMTPGQCNMVVE
RIGDYLVEQGM

>AAL92871.1 Putative pollen allergen Che a 3 [Chenopodium album]
MAAEDTPQDIADRERIFKRFDTNGDGKISSSELGDALKTLGSVTPDEVRRMMAEIDTDGD
GFISFDEFTDFARANRGLVKDVSKIF

>CAD87529.1 Allergen phl p5a allergen precursor [Phleum pratense]
ADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEEQKLIEKINAGFKAALAAAAGVPPAD
KYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPEAK
YDAYVATLSEALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANAAP
ANDKFTVFEAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETAL
KKAITAMSEAQKAAKPAAAATATATSAVGAATGAATAATGGYKV

>CAD87730.1 Putative allergen Len c 1.0101 [Lens culinaris]
SRSDQENPFIFKSNRFQTIYENENGHIRLLQRFDKRSKIFENLQNYRLLEYKSKPHTIFL
PQFTDADFILVVLSGKAILTVLNSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNRPGQLQSFLLSGTQNQPSFLSGFSKNILEAAFNTEYEEIEKVLLEEQEQKSQH
RRSLRDKRQEITNEDVIVKVSREQIEELSKNAKSSSKKSVSSESEPFNLRSRNPIYSNKF
GKFFEITPEKNPQLQDLDIFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGDFELVGQRN
ENQQEQREENDEEEGQEEETTKQVQRYRARLSPGDVLVIPAGHPVAINASSDLNLIGFGI
NAKNNQRNFLAGEEDNVISQIQRPVKELAFPGSSREVDRLLTNQKQSHFANAQPLQIE

>CAD87731.1 Putative allergen Len c 1.0102 [Lens culinaris]
SRSDQENPFIFKSNRFQTIYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPHTLFL
PQYTDADFILVVLSGKAVLTVLNSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNNPGQLESFLLSGTQNQPSFLSGFNKSILEAAFNTDYEEIEKVLLEDQEQEPQH
RRSLRDRRQEINKENVIVKVSREQIKELSKNAKSSSKKSVSSESEPFNLRSRNPIYSNKF
GKFFEITPEKNPQLQDLDIFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGYFELVGQRN
ENQREENDDEEEQEEETSTQVQRYRAKLSPGDVFVVPAGHPVAINASSDLNLIGFGINAK
NNQRNFLAGEEDNVISQIQRPVKELAFPGSSREVDRLLTNQKQSHFANAQPLQIE

>O23878.1 Putative 13S globulin seed storage protein 1 precursor
(Legumin-like protein 1) [Fagopyrum esculentum]
MSTKLILSFSLCLMVLSCSAQLLPWRKGQRSRPHRGHQQFHHQCDVQRLTASEPSRRVRS
EAGVTEIWDNDTPEFRCAGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVVPGC
PETFQSESEFEYPQSQRDQRSRQSESEESSRGDQRTRQSESEEFSRGDQRTRQSESEEFS
RGDQRTRQSESEEFSRGDQRTRQSESEEFSRGDQHQKIFRIRDGDVIPSPAGVVQWTHND
GDNDLISITLYDANSFQNQLDGNVRNFFLAGQSKQSREDRRSQRQTREEGSDRQSRESDD
DEALLEANILTGFQDEILQEIFRNVDQETISKLRGDNDQRGFIVQARDLKLRVPEEYEEE
LQRERGDRKRGGSGRSNGLEQAFCNLKFKQNVNRPSRADVFNPRAGRINTVNSNNLPILE
FIQLSAQHVVLYKNAILGPRWNLNAHSALYVTRGEGRVQVVGDEGRSVFDDNVQRGQILV
VPQGFAVVLKAGREGLEWVELKNDDNAITSPIAGKTSVLRAIPVEVLANSYDISTKEAFR
LKNGRQEVEVFLPFQSRDEKERERF

>O23880.1 Putative 13S globulin seed storage protein 2 precursor
(Legumin-like protein 2) [Fagopyrum esculentum]
MSTKLILSFSLCLMVLSCSAQLWPWQKGQGSRPHHGRQQHQFQHQCDIQRLTASEPSRRV
RSEAGVTEIWDHDTPEFRCTGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVIP
GCPETFQSDSEFEYPQSQRGRHSRQSESEEESSRGDQHQKIFRIREGDVIPSPAGVVQWT
HNDGNDDLISVTLLDANSYHKQLDENVRSFFLAGQSQRETREEGSDRQSRESDDDEALLG
ANILSGFQDEILHELFRDVDRETISKLRGENDQRGFIVQAQDLKLRVPQDFEEEYERERG
DRRRGQGGSGRSNGVEQGFCNLKFRRNFNTPTNTYVFNPRAGRINTVNSNSLPILEFLQL
SAQHVVLYKNAIIGPRWNLNAHSALYVTRGEGRVQVVGDEGKSVFDDKVQRGQILVVPQG
FAVVLKAGREGLEWVELKNSGNAITSPIGGRTSVLRAIPVEVLANSYDISTKEAYKLKNG
RQEVEVFRPFQSRDEKERERFSIV

>Q9XFM4.1 Putative 13S globulin seed storage protein 3 precursor
(Legumin-like protein 3) (Allergen Fag e 1) [Fagopyrum esculentum]
MSTKLILSFSLCLMVLSCSAQLLPWQKGQRSRPHHGHQQFQHQCDIQRLTASEPSRRVRS

EAGVTEIWDHDTPEFRCAGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVVPGC
PETFQSGSEFEYPRSQRDQRSRQSESGESSRGDQRSRQSESEESSRGDQRSRQSESEEFS
RGDQHQKIFRIRDGDVIPSPAGVVQWTHNNGDNDLISITLYDANSFQNQLDENVRNFFLA
GQSKQSREDRRSQRQTREEGSDRQSRESQDDEALLEANILSGFEDEILQEIFRNVDQETI
SKLRGENDQRGFIVQARDLKLRVPEEYEEELQRERGDRKRGGSGRSNGLEQAFCNLKFRQ
NVNRPSRADVFNPRAGRINTVDSNNLPILEFIQLSAQHVVLYKNAILGPRWNLNAHSALY
VTRGEGRVQVVGDEGRSVFDDNVQRGQILVVPQGFAVVLKAGREGLEWVELKNDDNAITS
PIAGKTSVLRAIPVEVLANSYDISTKEAFRLKNGRQEVEVFRPFQSRDEKERERFSIV

>AAP06493.1 Putative hypothetical protein, putative Profilin/allergen
[Schistosoma japonicum]
MSADSWDNHCVTYVANNKCLKNLCMTAIDGSHLGTSNPDFRIPPELILQLKSILDGGLDT
SIFFMGEKYIVLQHDSSCLVSRCGKKSLIFYATGKICLVGQTVDDDQNNCTQGNFAISRM
RDHYERMGY

>AAP13554.1 Allergen major allergen Per a 1.0105 [Periplaneta americana]
NSARGEHGLDVADFLNEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKAL
FQEKLETSPDFKALYDAIRSPEFQSIISTLNAMPEYQDLLQNLRDKGVDVDHFIELIRSL
FGLP

>AAO38859.1 Putative 11S globulin [Bertholletia excelsa]
MAKLFLLSLGIFLLFHCCLAIEYEQEELYECRIQRLTAQEPQYRLEAEAGVSEVWDYTDQ
QFRCAGVAALRNTIRPQGLLLPVYTNAPKLYYVTQGRGILGVLMPGCPETFQSMSQFQGS
REQEEERGRFQDQHQKVHHLKKGDIIAIPAGVALWCYNDGDEDLVTVLVQHTASDLNQLD
QNPRHFFLAGNIQRSQKQRGERYGLRGGQQILADNVFKGFNMEALADVLGFGMDTETARK
VRGEDDQRGHIVRVEQGLKVIRPPRIREELEQQEGGGYNGLEETICSATFIQNIDNPAEA
DFYNPRAGRLTTVNSLKVPILTFLQLSAMKGVLYENAMMAPLWRLNANSVVYAVRGEARV
QIVDHRGETVFDDNLREGQMVVVPQNFVVVKQAGSRGFEWVVFNTNDNALFSTAAGRTSP
LRGIPVGVLANAYRLSQEEARRIKLNRDEAVLFQPGSRSRGRASA

>AAP30720.1 Putative enolase [Rhodotorula mucilaginosa]
MAISKIHSRYVYDSRGNPTVEVELTTEKGTFRSIVPSGASTGVHEALELRDGDKSKWLGK
GVLKAVANVNDTIAPALIEANIDVADQAKIDEFLLKLDGTPNKAKLGANAILGVSLAAAK
AGAAQKDVPLYKHIADISKAKEGKFVLPVPFQNVLNGGSHAGGDLAFQEFMIVPSGAPSF
SEGLRIGSEVYHHLKSLTKKKYGQSAGNVGDEGGVAPDIKTAKEALDLIVSAIEAAGYTG
QVDIAMDVASSEFYKDGLYDLDFKNPNSDKSKWITGPQLAELYEQLLNEYPIVSIEDPFA
EDDWEAWSHFFSKVEGKTQIVGDDLTVTNPIRIKKAIETKAADALLLKVNQIGTLTESIQ
AANDSYAAGWGVMVSHRSGETEDTFIADLSVGIRSGQTKTGAPARSERLAKLNQILRIEE
ELGDKAIYAGKDFHKAHSL

>Q9FSG7.1 Putative Thaumatin-like protein 1a precursor (Allergen Mal d 2)
(Mdtl1) (Pathogenesis-related protein 5a) (PR-5a) [Malus x domestica]
MMKSQVASLLGLTLAILFFSGAHAAKITFTNNCPNTVWPGTLTGDQKPQLSLTGFELASK
ASRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNKVCPAPLQVKAADGSVISC
KSACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSYAYDDKNSTFTCSGGPDY
VITFCP

>BAC76688.1 Putative 27K protein [Triticum aestivum]
GDVATGRGSEKVHVAIYYESLCPYSVRFVANHLFKAYRDGLLDAANLTLVPYGNAVVRND
GTISCQHGPEECLLNTVEACAIDAWPDVKVHLGFIYCVSDLVLKNKHREWESCFQKQGLD
PKPVTECYKGERGHNLSLEYGRQTAELVPPHQFVPWVVVDGKPLYNDYGNFKAYICKAYK
GYPLLEACRSLGLEAHDDVYGRL

>NP_851341.1 Putative lactotransferrin [Bos taurus] [Bos taurus]
MKLFVPALLSLGALGLCLAAPRKNVRWCTISQPEWFKCRRWQWRMKKLGAPSITCVRRAF
ALECIRAIAEKKADAVTLDGGMVFEAGRDPYKLRPVAAEIYGTKESPQTHYYAVAVVKKG
SNFQLDQLQGRKSCHTGLGRSAGWIIPMGILRPYLSWTESLEPLQGAVAKFFSASCVPCI

DRQAYPNLCQLCKGEGENQCACSSREPYFGYSGAFKCLQDGAGDVAFVKETTVFENLPEK
ADRDQYELLCLNNSRAPVDAFKECHLAQVPSHAVVARSVDGKEDLIWKLLSKAQEKFGKN
KSRSFQLFGSPPGQRDLLFKDSALGFLRIPSKVDSALYLGSRYLTTLKNLRETAEEVKAR
YTRVVWCAVGPEEQKKCQQWSQQSGQNVTCATASTTDDCIVLVLKGEADALNLDGGYIYT
AGKCGLVPVLAENRKSSKHSSLDCVLRPTEGYLAVAVVKKANEGLTWNSLKDKKSCHTAV
DRTAGWNIPMGLIVNQTGSCAFDEFFSQSCAPGADPKSRLCALCAGDDQGLDKCVPNSKE
KYYGYTGAFRCLAEDVGDVAFVKNDTVWENTNGESTADWAKNLNREDFRLLCLDGTRKPV
TEAQSCHLAVAPNHAVVSRSDRAAHVKQVLLHQQALFGKNGKNCPDKFCLFKSETKNLLF
NDNTECLAKLGGRPTYEEYLGTEYVTAIANLKKCSTSPLLEACAFLTR

>NP_851372.1 Allergen casein alpha s1 [Bos taurus]
MKLLILTCLVAVALARPKHPIKHQGLPQEVLNENLLRFFVAPFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYK
VPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>AAP37482.1 Allergen allergen Bet v 1x [Betula pendula]
MRVFNYKGETTSLIPLARLFK

>AAP37470.1 Putative ENSP-like protein [Hevea brasiliensis]
MEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNFGDSNSDTGGKAAAFYPLNPPYG
ETFFHRSTGRYSDGRLIIDFIAESFNLPYLSPYLSSLGSNFKHGADFATAGSTIKLPTTI
IPAHGGFSPFYLDVQYSQFRQFIPRSQFIRETGGIFAELVPEEYYFEKALYTFDIGQNDL
TEGFLNLTVEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPWAE
KDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYSLFSEPEKHGFEF
PLITCCGYGGKYNFSVTAPCGDTVTADDGTKIVVGSCACPSVRVNWDGAHYTEAANEYFF
DQISTGAFSDPPVPLNMACHKTESLRTLASV

>AAP37412.1 Putative venom serine protease precursor [Polistes dominulus]
MNCGKIILLFITIIGVAKSREENCKCGWDNPSRIVNGVETEINEFPMVARLIYPSPGMYC
GGTIITPQHIVTAAHCLQKYKRTNYTGIHVVVGEHDYTTDTETNVTKRYTIAEVTIHPNY
NSHNNDIAIVKTNERFEYSMKVGPVCLPFNYMTRNLTNETVTALGWGKLRYNGQNSKVLR
KVDLHVITREQCETHYGAAIANANLLCTFDVGRDACQNDSGGPILWRSPTTDNLILVGVV
NFGRTCADDAPGGNARVTSFMEFIHNATIGETYCKAD

>AAM54365.1 Putative 2S albumin seed storage protein [Juglans nigra]
RHEARKCIFHTFSLTMARLATLAALLVALLFVANAAAFRTTITTMEIDEDIDNPRRRGEG
CQEQIQRQQNLNHCQYYLRQQSRSGGYDEDNQRQHFRQCCQQLSQIEEQCQCEGLRQAVR
RQQQQQGLRGEEMEEMVQSARDLPKECGISSQRCEIRRSWF

>AAM54366.1 Putative vicilin seed storage protein [Juglans nigra]
GRDRQDPQQQYHRCQRRCQIQEQSPERQRQCQQRCERQYKEQQGRERGPEASPRRESKGR
EEEQQRHNPYYFHSQSIRSRHESEEGEVKYLERFAERTELLRGIENYRVVILDANPNTFM
LPHHKDAESVIVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATEYVINQDSNERLEM
VKLLQPVNNPGQVREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDRLERFFDQQEQREG
VIIRASQEKLRALSQHAMSAGQRPWGRRSSGGPISLKSERPSYSNQFGQFFEACPEEHRQ
LQEMDVLVNYAEIKRGAMMVPHYNSKATVVVYVVEGTGRYEMACPHVSSQSFEDQGRREQ
EEEESTGRFQKVTARLARGDIFVIPAGHPIAITASQNENLRLLGFGINGENNQRNFLAGQ
NSIINQLEREAKELSFNMPREEIEEIFESQMESYFVPTERQSRRGQGRDHPLASILGFAF
F

>AAM78596.1 Allergen allergen Ara h 2 isoform [Arachis hypogaea]
LTILVAPALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSYGRD
PYSPSQDPYSPSQDPDRRDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRCMCEALQQ
IMENQSDRLQGRQQEQQFKRELRNLPQQCGLRAPQRCDLEVESGGRDRY

>AAP47226.1 Putative putative lipid transfer protein [Helianthus annuus]

MKGTSMGVAILAMIVMAQLMVHPSVAITCNDVTGNLTPCLPYLRSGGKPTPACCAGAKKL
LGATRTQADRRTACKCAKTAAPQLKVRPDMASSLPGKCGISTSIPINPNVNCNTIP

>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] [Brassica juncea]
AGPFRFPRCRKEFQQAQHLRACQQWLHKQAMQSGSGPQPQGPQQRPPLLQQCCNELHQEE
PLCVCPTLKGASKAVKQQIRQQGQQQGQQGQQLQHEISRIYQTATHLPRVCNIPRVSICP
FQKTMPGPS

>P81729.1 Putative Chitin-binding allergen Bra r 2 [Brassica rapa subsp. rapa]
QAGGQTCAGNICCSQYGYCGTTADYCSPDNNCQATYHYYNPAQNNWDLRAVSAYCSTWDA
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]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVCYGMQGNNLPPVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
LFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>AAP94213.1 Putative Humj1 [Humulus japonicus]
MKNLQHHNKIITFKTPDDSTTLELNSHISLPYHWEQCLDLKTGEIYYINWRNGMKAKEDP
RTTITEYNSNGSNGDYYYSEEDSSYDSEESSSESSPPPATTSRESQYRGAEKDHVLVVGG
CKSCFMYFMVPKQVQECPKCCGQPLHFDRSQSGSQ

>AAP96759.1 Allergen group 1 allergen Dac g 1.01 precursor [Dactylis glomerata]
IPKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVDKAPFNGMTGCGNT
PIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDNEEPIAPYHFDLSGHAFGSMAKKGE
EQKLRSAGELELQFRRVKCKYPEGTKLTFHVEKGSNPNYLALLVKYVDGDGDVVAVDIKE
KGKDKWIALKESWGAIWRVDTPDKLTGPFTVRYTTEGGTKSEVEDVIPEGWKADTSYEAK

>P81943.3 Putative RecName: Full=Allergen Api g 5; AltName: Allergen=Api g 5 [Apium graveolens]
LPNPSGFVTCLSSISKSVYTPAINLKAVIADPVAKTAVVQAGATLGEVYYXIIYARVLWV
GNTTQKLEWIRSLHDYQSSFFPFFSA

>AAQ08190.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
IRTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAQ08947.1 Allergen allergen Fra e 1.0101 [Fraxinus excelsior]

EDVPQPPVSLFYVQGQVYCDTCRAGFITELSEFIQGAGVRLQCKDKENGKVTFTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEVLPKCPQVYNKLGMYPPNM

>AAQ10268.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
ILTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAQ10271.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
IWTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>AAQ10274.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
WTVSCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
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]
QDSYRDTCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>AAQ10279.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
IRTVSQDTCCARFITELSEFIPGAGVRLQCKDGENGNVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPPDM

>AAQ10280.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
IRTVFRVTCRARFITELSEFIPGAGVRLQCKDGENGNVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPPDM

>AAQ10281.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
QDSYSGHCRARFITELSEFIPGAGVRLQCKDGENGNVTFTEVGYTRAEGLYSMLIERDHK
NEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQV
FNKLGMYPPDM

>AAQ24541.1 Putative Blo t 1 allergen [Blomia tropicalis]
MKFLLVAALCALVAIGSCKPTREEIKTFEQFKKVFGKVYRNAEEEARREHHFKEQLKWVE
EHNGIDGVEYAINEYSDMSEQEFSFHLSGGGLNFTYMKMEAAKEPLINTYGSLPQNFDWR
QKARLTRIRQQGSCGSCWAFAAAGVAESLYSIQKQQSIELSEQELVDCTYNRYDSSYQCN
GCGSGYSTEAFKYMIRTGLVEEENYPYNMRTQWCNPDVEGQRYHVSGYQQLRYQSSDEDV
MYTIQQHGPVVIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVGWGTVQGVDYWIIR
NSWGTGWGNGGYGYVERGHNSLGINNFVTYATL

>AAQ24542.1 Putative Blo t 3 allergen [Blomia tropicalis]

MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVDGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAAHCIQGLSASSLTIRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPEQGSDPKASSEVLITGWGTLSSGASSLPTKLQKVTVP
IVDRKTCNANYGAVGADITDNMFCAGILNVGGKDACQGDSGGPVAANGVLVGAVSWGYGC
AQAKYPGVYTRVGNYISWIKGKGVPV

>AAQ24543.1 Allergen Blo t 4 allergen [Blomia tropicalis]
MIVELIVFSLALTIPYQTLASSPYSDPHFQHNRKVITHLMQWKFVDIADECERFLGPYGY
GGVQVSPVNEHASLDRHPWYELYQPVSYRIVSRSGTESQFRDMVHRCNKAGVRIYVDVVL
NHMTGPQSGVGIDGTHYDGNSMQYPGIPFGPNDFHGHESCPTSNLDIQNYDDPTQARNCR
LSGLRDLKQSADYVRTKQADFLNHLIDIGVAGFRFDASKHMWPGDLQAIYSKLHHLNEKY
FPSNSNPFIYHEVIYSNNNAISISDYTKLGRSIEFHYYHELCNVIRGNNKLKWLHNFGQP
WGMVPNDDALIMVDSHDLQRGHTGQLGLNINYFESRLLKVATAFMLAWPYGIPRVMSSYR
WNQKIVNGKDENDWIGPPADGSGSILSVKPNSDLTCNQEWICEHRWKQIYNMVQFRNTAG
DEPVKNWWDNGDYQIAFSRGAKTFIAINLQNGQHLKQNLHTGLPSGNYCNLVTGNVHNGK
CSGQMVHVDGSGHAMISIGANADDHL

>AAQ54603.1 Putative Gly d 2.03 [Glycyphagus domesticus]
MMKFIVLFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ55550.1 Allergen allergen Lep d 12 [Lepidoglyphus destructor]
MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTHATHEETTSTQHHHEEVT
TQTPHHEEKTTTEETHHSDDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWY
ITVMPCSIGTKFDPISRNCVLDN

>AAQ73484.1 Putative type 2 allergen Lep d 2.013 [Lepidoglyphus destructor]
MMKFIVLFALIAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ73486.1 Putative type 2 allergen Lep d 2.023 [Lepidoglyphus destructor]
MMKFIVLFALDAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ73487.1 Putative type 2 allergen Lep d 2.024 [Lepidoglyphus destructor]
MKFIVLFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGQSVTLDAKFVANQD
SAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEVT
AELIGDHGILACGTVNGQVE

>AAQ73488.1 Putative type 2 allergen Lep d 2.025 [Lepidoglyphus destructor]
MMKFIVLFALVAVASAGNMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ73489.1 Putative type 2 allergen Lep d 2.031 [Lepidoglyphus destructor]
MMKFIVLFALVAVASAGKMKFKDCGKGEVTELDITDCSGGFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ73490.1 Putative type 2 allergen Lep d 2.035 [Lepidoglyphus destructor]
MMKFIVLFALNAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ73491.1 Putative type 2 allergen Lep d 2.039 [Lepidoglyphus destructor]
MMKFIVLFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGQVE

>AAQ73492.1 Putative type 2 allergen Lep d 2.042 [Lepidoglyphus destructor]
MMKFIVLFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVVGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAELIGDHGILACGTVNGTVE

>AAQ73493.1 Putative type 2 allergen Lep d 5.02 [Lepidoglyphus destructor]
MTGVKTHLEHELKRTDLNFLEKFNLDEITATLNVLTKELTEVQKHVKAVESDEVDVAIPN
PDEFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFI
DSAKGHFERELKRADLNLAEKFNFESALSTGAVLHKDLTALATKVKAIETK

>AAQ73494.1 Putative type 2 allergen Lep d 5.04 [Lepidoglyphus destructor]
MTGVKTHLQHELKRTDLNFLEKFNLDEITAPLNVLTKELTEVQKHVKAVESDEVAIPNPD
EFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFIDS
AKGHFERELKRADLNLAEKFNFESALSTGAVLHKDLTALATKVKAIETK

>AAP15199.1 Putative profilin-like protein [Humulus scandens]
MSWQAYVDDHLMCEIDGQHLTAAAIIGHDGSVWAQSSTFPQFKPEEIAAIMKDFEEPGSL
APTGLHLGGIKYMVIMGEQGAVIRGKKGAGGITVKKTGAAMIIGIYDEPLTPGQCNMIVE
RLGDYLIDQNL

>AAP15200.1 Putative profilin-like protein [Humulus scandens]
MSWQAYVDDHLMCEIDGNHLSAAAIIGHDGSVWAQSAAFPQLKPEEVTGIMNDFNEPGTL
APTGLYLGGTKYMVIQGEPGAVIRGKKGAGGVTIKKTSQALIIGVYDEPMTPGQCNMIVE
RLGDYLIDQGL

>AAP15201.1 Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTIKKTTMALIIGIYDEPMAPGQCNMIVE
RLGDYLLEQGF

>AAP15202.1 Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTIKKTTMSLIIGIYDEPMTPGQCNMLVE
RPGDYLLEQGF

>AAP15203.1 Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDEHLMCDIEGTGHHLTSAAILGHDGTVWAQSSNFPQFKPEEMKGIITEFDQAG
TLAPTGMFIAGAKYMVLQGEQGAVIRGKKGAGGICIKKTGQALVMGIYDEPVAPGQCNMV
VERLGDYLIDQGM

>AAQ83588.1 Allergen allergen Fra e 1 [Fraxinus excelsior]
MEDVPQPPVSQFHIQGQVYCDTCRARFITKLSEFITGASVRLQCRDKENGDVTFTEIGYT
RGEGLYSMFVERDHKNEFCEITLLSSGRKDCNEIPIEGWVKPSLKFILNTVNGTTRTINP

LGFFKKEALPQCAQVYNKLGMYPPNM

>AAQ91847.1 Allergen Ara h 8 allergen [Arachis hypogaea]
MGVFTFEDEITSTVPPAKLYNAMKDADSITPKIIDDVKSVEIVEGNGGPGTIKKLTIVED
GETKFILHKVESIDEANYAYNYSVVGGVALPPTAEKITFETKLVEGPNGGSIGKLTLKYH
TKGDAKPDEEELKKGKAKGEGLFRAIEGYVLANPTQY

>AAN11300.1 Putative 29 kDa IgE-binging protein [Candida albicans]
MVKVLLALTSYNETFYSDGKKTGVFVVEALHPFEVFRKKGYEIQLASETGTFGWDDHSVV
PDFLNGEDKEIFDNVNSEFNVALKNLKKASDLDPNDYDIFFGSAGHGTLFDYPHAKDLQK
IATTVYNKGGVVSAVCHGPAIFENLNDPKTGEPLIKGKKITGFTDIGEDILGVTDIMKKG
NLLTIKQVAEKEGATYIEPEGPWDNFTVTDGRIVTGVNPQSAVKTAEDVIAAFECN

>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
NKLGMYPPNHGMSR

>AAO33897.1 Allergen Ole e 3 allergen [Olea europaea]
EHERIFKRFDAKGDGKISSSELGETLKPLGSVTLEEIQRMMAEIDTDGDGFL

>AAO73464.1 Allergen HDM allergen [Dermatophagoides pteronyssinus]
MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSESVTEMNKKRDSELAKLRKLLEDVHMESEETAHHLRQKH
QAAVHEMQDQLDQLQKAKNKSDKEKQKFQAEVFELLSQLETANKEKLTALKSVEKLEYTV
HELNIKIEEINRTVIELTSHKQRLTQENTELIKEVHEVKLQLDNANHLKQQIAQQLEDTR
HRLEEEERKRSSLENHAHTLEVELESLKVQLDDESEARLELERQLTKANGDAASWKSKYE
AELQAHADEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAA
AHAQQLEKRVAQLEKINLDLKDKLEEVTMLMEQAQKELRIKIGELQKLQHEYEKVRDQRD
QLARENKKLTDDLAEAKSQLNDAHRRIHEQEIEIKRLENERDELSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYEKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITELQAHYDEVHRQLQQAVDQLGVTQ
RRCQALQAELEEMRIALEQASRAKRQAEQLHEEAVVRVNELTTINVNLASAKSKLESEFS
ALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLEQEVRTLHV
RIEEVEANALAGGKRVIAKLESRIRDVEIEVEEERRRHAETEKMLRKKDHRVKELLLQNE
EDHKQIQLLQEMTDKLNEKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVFTTQEETTNY

>AAO91800.1 Allergen NADP-dependent mannitol dehydrogenase [Alternaria alternata]
MPITVPQATELKDLFSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKCQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFRERKTGSLVITSSMSGHIANFPQEQASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMIPMGRDAKATELKGA
YVYFASDASSYCTGSDLLIDGGYCVR

>AAO91801.1 Allergen NADP-dependent mannitol dehydrogenase [Davidiella tassiana]

MPGQQATKHESLLDQLSLKGKVVVVTGASGPKGMGIEAARGCAEMGAAVAITYASRAQGA
EENVKELEKTYGIKAKAYKCQVDSYESCEKLVKDVVADFGQIDAFIANAGATADSGILDG
SVEAWNHVVQVDLNGTFHCAKAVGHHFKERGTGSLVITASMSGHIANFPQEQTSYNVAKA
GCIHMARSLANEWRDFARVNSISPGYIDTGLSDFVPKETQQLWHSMIPMGRDGLAKELKG
AYVYFASDASTYTTGADLLIDGGYTTR

>AAP57094.1 Putative arginine kinase [Dermatophagoides farinae]
MVDQAVIDKLEAGFQKLQSSAECHSLLKKYLTRNVLDACKGRKTGMGATLVDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPVIEDYHKGFKPTDKHPQTDFGDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYPFNPCLTEAQYKEMEEKVKGQLNSFEGELKGTYYPLLGMDKATQQQ
LIDDHFLFKEGDRFLQAANACRFWPVGRGIFHNDNKTFLIWVNEEEHLRIISMQKGGDLK
QVFSRLINGVNHIEKKLPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKXLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRRMGLTEYQAVKEMQDGILELIKIEKSM

>AAP35065.1 Allergen Der f Mal f 6 allergen [Dermatophagoides farinae]
MALPRVFFDIAADNQPLGRIVIELRSDVVPKTAENFRALCTGEKGFGFKSSSFHRIIPNF
MIQGGDFTNHNGTGGKSIYGNKFADENFTLQHTGPGIMSMANAGPNTNGSQFFITTVKTT
WLDGKHVVFGSVVEGMDIVKKVESYGSQSGKPSKKVTIANCGQL

>AAP35069.1 Putative Blo t 8 allergen [Blomia tropicalis]
MAPLKIGYWDIRGFAEPIRMLLKHLNIEFEETRYGFGNDSEESFPNRDEWLAEKFTLGFE
FPNLPYLFDGDFKMTESVAILKRLARANGMIATTEPALSYSEMIEAMVIDIRNRLVYVIY
AENSGTPEEFEQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
VFVKSTPIFEKFAKVSDYMKRFEELPSLKEYIASDEHRSASCLSPFARIGHRWAKE

>AAP35073.1 Allergen Der f 2 allergen [Dermatophagoides farinae]
MVSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDANQNTKT
AKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSENVVVTVK
LVGDNGVLACAIATHGKIRD

>AAP35075.1 Allergen Der f 1 allergen [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDLS

>AAP35077.1 Allergen Der f 7 allergen [Dermatophagoides farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVPDHADKFER
HVGILDFKGELAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEIPDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAIFQDTVRKEMTKVLAPAFKRELEKN

>AAP35078.1 Allergen Der f 13 allergen [Dermatophagoides farinae]
MASIEGKYKLEKSEKFDEFLDKLGVGFMVKTAAKTLKPTFEVAIENDQYIFRSLSTFKNT
EAKFKLGEEFEEDRADGKRVKTVIQKEGDNKFVQTQFGDKEVKIIREFNGDEVVVTASCD
GVTSVRTYKRI

>AAP35082.1 Allergen Der f Gal d 2 allergen [Dermatophagoides farinae]
MKFFLLSFVLMVVAATATYAAHVGSGSRDNNNNKPVPAEGFAKASNEFGFHLLKEVIQHR
SSSGSRGSSENVLFSPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNGGEYQTVAN
SVKQIQNQINQSDQSNQFDWGNMLMVDQQMPVKDQYKKIIEQYYDGQVMSVDFRKESKNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGHH
GQEYKNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPRERNYDLDKIRQSIN
STFVDEIVGQITGSQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHKAKLILNEQGTEAGAGTYIQMAVLSALETSHTFRFDHPFMYFIRHLPTGQILF
LGEIHDF

>AAR17475.1 Putative elongation factor 1 beta-like [Penicillium citrinum]
MGFTDFVSDAGLSLANNYLATRSYIVGHAPSQADVVTYKAFTASPDAEKYPHVARWYKHI
ASYESEFPTLPGDASKAFTAYGPEGSEASANPKDKPAEEEEEDLFASDSEDEDPAVVAE
RNKNLEEYKKKKAAKGPKPAAKSLVTLEVKPWDDETNLEELEANVRAIEMDGLVWGASKF
VAVGFGIKKLQINLVVEDEKVSTDELQAQIEEDEDHVQSTDVAAMQKL

>AAR21071.1 Putative PR5 allergen Jun r 3.1 precursor [Juniperus rigida]
MARVSELALLLVATLAISLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGQTWTLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>AAR21072.1 Putative PR5 allergen Jun r 3.2 precursor [Juniperus rigida]
MARVSELALLLVATLAISLHMQEAGAVKFDIRNQCGYTVWAAGLPGGGKRLDQGQTWTLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>AAR21073.1 Putative PR5 allergen Cup s 3.1 precursor [Cupressus sempervirens]
MARVSELALLLVATSAISLHMQEAGAVKFDIKNQCRYTVWAAGLPGGGKRLDQGQTWTVN
LAAGTASARFWGRTGCTFDASGKGSCRSGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>AAR21074.1 Putative PR5 allergen Cup s 3.2 precursor [Cupressus sempervirens]
MARVSELALLLVATLAISLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGQTWTVN
LAAGTASARFWGRTGCTFDASGKGSCRSGDCGGQLSCTVSGAVPATLAEYTQSDKDYYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>AAR22488.1 Allergen allergen Mal d 3 [Malus x domestica]
MACSAVIKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRSGGAVPPACCNGIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNVPYKISTSTNCATVK

>1LLT_A Allergen Chain A, Birch Pollen Allergen Bet V 1 Mutant E45s [Betula pendula]
GVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>CAD21706.2 Putative Cu /Zn super-oxide dismutase [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>AAR92223.1 Allergen phytocystatin [Actinidia deliciosa]
MVPKPLSLLLFLLLALSAAVVGGRKLVAAGGWRPIESLNSAEVQDVAQFAVSEHNKQAND
ELQYQSVVRGYTQVVAGTNYRLVIAAKDGAVVGNYEAVVWDKPWMHFRNLTSFRKV

>P83542.1 Putative Phospholipase A1 (Allergen Pol g 1) [Polistes gallicus]
GITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFKES

>AAS02108.1 Putative FAD-linked oxidoreductase BG60 [Cynodon dactylon]
MARSRAFAFALLICAVAASCHVALSAPPPYAKQVERDFLTCLTKDIPPRQLYAKSSPAYA

SVWSSTVRNIKFLSDKTVKPLYIITPTNASHIQAAVVCGRRHGMRIRVRSGGHDYEGLSY
RSEKPEPFAVVDMNKMRAVSIDGKAATAWVDSGAQLGDLYYGIAKASPKLGFPAGVCTTI
GVGGHFSGGGFGMLLRKYGTAADNVIDAKVVDAQGRLLDRKAMGEDHFWAIRGGGGESFG
IVASWQVKLLPVPPKVTVFQVHKGIKEGAIDLVTKWQTVAPALPDDLMIRIMAMGQGAMF
EALYLGTCKDLVLLMTARFPELGMNATHCKEMTWIESVPYIPMGPKGTVRDLLNRTSNIK
AFGKYKSDYVLEPIPKSDWEKIFTWLVKPGAGVMIMDPYGGGIASVPESATPFPRRSGVL
FNIQYVVYWFGEGAAALPTQWTRDIYDFMTPYVSKNPRQAYVNYRDLDLGVNQVVGNVST
YASGKVWGEKYFKGNFERLARTKGKIDPEDYFRNEQSIPPLL

>CAE85467.1 Allergen putative latex allergen hev b 7.02 [Hevea brasiliensis]
ATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDLDGPDARIADYFDIIAGTS
TGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEYL
RELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSAA
PVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALTHIRNEIIRQNPRFIGANLTESK
SRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSALF
KSLDCEDYYLRIQDDTLTGEESSGHIATEENLQRLVEIGTRLLEKQESRINLDTGRLESI
PGASTNEAAITKFAKLLSEERKLRQLK

>CAF25232.1 Putative Vicilin [Pisum sativum]
SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPHTLFL
PQYTDADFILVVLSGKATLTVLKSNDRNSFNLERGDAIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNKPGQLQSFLLSGTQNQPSLLSGFSKNILEAAFNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKKSVSSESGPFNLRSRNPIYSNKF
GKFFEITPEKNQQLQDLDIFVNSVDIKEGSLLLPNYNSRAIVIVTVTEGKGDFELVGQRN
ENQGKENDKEEEQEEETSKQVQLYRAKLSPGDVFVIPAGHPVAINASSDLNLIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSHEVDRLLKNQKQSYFANAQPLQRE

>CAF25233.1 Putative Vicilin [Pisum sativum]
SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPRTLFL
PQCTDADFILVVLSGKATLTVLKSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLTIPVNKPGQLQSFLLSGTQNQPSLLSGFSKNILEAAFNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKKSVSSESGPFNLRSRNPIYSNKF
GKFFEITPEKNQQLQDLDIFVNSVDIKEGSLLLPNYNSRAIVIVTVTEGKGDFELVGQRN
ENQGKENDKEEEQEEETSKQVQLYRAKLSPGDVFVIPAGHPVAINASSDLNLIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSHEVDRLLKNQKQSYFANAQPLQRE

>Q9NJA9.1 Putative Paramyosin (Allergen Ani s 2) [Anisakis simplex]
MSDTLYRSPSMAIRSSTADMGALTSMSVADLGSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLEESQLENEDAMNVLRK
KHQDVCLDYTEQIEQLQKKNSKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVKYQLAQQLEE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWKSK
FDAEVALHHEEVEDLRKKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAELQKMKQLYEKAVEQ
KEALARENKKLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEAARRDA
EARAQRALAELQQVRIEMERRLQEKEEEMEALRKSMQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNRANLEAQKTIKKQSEQIIQLQANLEDTQRQLQQTLDQYAL
AQRKISALSAELEECKTALDNAIRARKQAEADLEEAHVRISDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALLGGKRVIAKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDTADRMLEKLNIQKRQLGEAEAMTMQNLQRVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>Q25632.1 Allergen RecName: Full=Tropomyosin; AltName: Full=MOv-14; AltName: Full=Ov-tmy-1 [Onchocerca volvulus]
MDAIKKKMQAMKIEKDNALDRADAAEEKVRQMTEKLERIEEELRDTQKKMMQTENDLVKA
QEDLSVANTNLEDKEKKVQEAEAEVAALNRRMTLLEEELERAEERLKIATDKLEEATHTA

DESERVRKVMENRSFQDEERANTVESQEKEAQLLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENEIVELEEELRVVGNNLKSLEVSEEKALQREDSYQEQIRTVSVRLKEAETRAE
FAERSVQKLQKKVDRLEDELVHEKERYKNISEELDQTFQELSGY

>AAS47035.1 Allergen major cherry allergen Pru av 1.0201 [Prunus avium]
MGVFTYSDESTSVIPPPRLFKALVLEADTLIPKIAPQSVKTAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYNYTLVEGDALSDKIEKITYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVKAGKEKATGLFKLIENYLAANPDACN

>AAS47036.1 Allergen major cherry allergen Pru av 1.0202 [Prunus avium]
MGVFTYADESTSVIPPPRLFKALVLEADTLIPKIAPQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>AAS47037.1 Allergen major cherry allergen Pru av 1.0203 [Prunus avium]
MGVFTYADESTSVITPPRLFKALVLEADTLIPKIAPQSVKGAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVRAGKEKATGLFKLIENYLVANPDAYN

>CAF32566.2 Allergen Group 4 allergen-like [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYYAIHKASTVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLMIRVIAQGPTATFEAMYLGTCQTLTPMMSSKFPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKGK
VDPTDYFRNEQSIPPLIKKY

>CAF32567.2 Allergen Group 4 allergen-like [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYYAIHKASPVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLMIRVIAQGPTATFEAMYLGTCQTLTPMMSSKFPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKGK
VDPTDYFRNEQSIPPLIKKY

>AAS67041.1 Putative venom phospholipase A1 1 precursor [Polistes dominulus]
MNFKYSILFICFVKVLDNCYAADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNG
IILKKEILKNYDLFQKSQISHQIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWK
KGACNAFASTNDVLGYSQAVGNTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTS
GFAGKEVQRLKLGKYKEIIGLDPAGPSFLTNKCPNRLCETDAEYVQAIHTSAILGVYYNV
GSVDFYVNYGKSQPGCSEPSCSHTKAVKYLTECIKRECCLIGTPWKSYFSTPKPISQCKR
DTCVCVGLNAQSYPAKGSFYVPVDKDAPYCHNEGIKL

>AAS67042.1 Putative venom phospholipase A1 2 precursor [Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNKCPNRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPSC
SHTKAVKYLTECIKRECCLIGTPWKSYFSTPKPISQCKRDTCVCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEGIKL

>AAS67043.1 Putative venom phospholipase A1 3 precursor [Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTSKCPDRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPSC
SHTKAVKYLTECIKRECCLIGTPWKSYFSTPKPISQCKRDTCVCVGLNAQSYPAKGSFYV
PVDKDAPYCHNEGIKL

>AAS67044.1 Putative venom phospholipase A1 4 precursor [Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTSKCPDRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPSC
SHTKAVKYLTECIKRECCLIGTPWKSYFSTPKSISQCKRDTCVCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEGIKL

>AAS75297.1 Allergen major allergen Alt a 1 subunit [Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNSLGF
NIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMNFSFGSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGGNGPKDFVCQGVADAYITLVTLPKSS

>BAD13150.1 Putative putative polcalcin Phl p 7 (Calcium-binding pollen allergen Phl p 7) (P7) [Oryza sativa (japonica cultivar-group)]
MAAASSADMERIFKRFDTNGDGKISLSELTDALRTLGSTSADEVQRMMAEIDTDGDGFID
FNEFISFCNANPGLMKDVAKVF

>AAS75831.1 Putative group 2 allergen Sui m 2 [Suidasia medanensis]
MKFIILAMFVAVAAAGEMKFQDCGHGEVKKLLVSDCSGDYCIIHKGKKLSMEADFVANQD
SPTAVIKISAKVNGVELQVPGIETNGCHHMKCPLVKGQSYQFKYDLVIPQILPNVKADVT
ASLTGAHGLLACGTVHGEVQN

>AAS77253.1 Putative Fel d 4 allergen [Felis catus]
MKLLLLCLGLILVCAHEEENVVRSNIDISKISGEWYSILLASDVKEKIEENGSMRVFVEH
IKALDNSSLSFVFHTKENGKCTEIFLVADKTKDGVYTVVYDGYNVFSIVETVYDEYILLH
LLNFDKTRPFQLVEFYAREPDVSQKLKEKFVKYCQEHGIVNILDLTEVDRCLQARGSEVA
QDSSVE

>CAG24374.1 Allergen Group 1 allergen-like [Phleum pratense]
IPKVPPGPNITATYGGKWLDAKSTWYGKPTAAGPKDNGGACGYKDVDKPPFSGMTGCGNT
PIFKSGRGCGSCFEIKCTKPEACSGEPVVVHITDDNEEPIAAYHFDLSGIAFGSMAKKGD
EQKLRSAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNPNYLALLVKFVAGDGDVVAVDIKE
KGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGGTKGEAKDVIPEGWKADTCYESK

>P83834.1 Allergen Pathogenesis-related protein (PR-1) (Allergen Cuc m 3) [Cucumis melo]
DFVDAHNAARAQVGVGPVHWTVDAYARQYANDRNLVHSATR

>AAS93669.1 Putative Sar s 1 allergen Yv5032C08 [Sarcoptes scabiei type hominis]
MSFIRFFSIFLLCFVSFLVARIECDEFEIKTFEQFKARFNKTYSNYFIETYRRRVFYRTL
KYVEENKHRGVSINAHADLTVNEFSAKYLSKAPKTEDLLDEYKLFSCDKFEGVKLGELDL
RKEGRVTKIREQLACGSCWAFSVTANVESLLLGSNCTRWSTNDWLSPQQLVDCASDHGCN
GEKTSTGLEYVQHKGIVKEGVYPYKARVGVCKHPCGPYYHIKSFCGISPPDPDQVKIALS
KTRSALSASIIVYDVEHLKNYNGKLPLADDGKLIGEQLSHAINIVGYTQRNGVEVWIVRN

SWGETWGDHGYGYFKILPKRGVMGITRMVIVADLGKETVA

>AAS93674.1 Putative Sar s 1 allergen SMIPP-C Yv4028C12 [Sarcoptes scabiei type hominis]
MERKQFNSLLYQLILSVAIITRGYYFETTPSIDDENVRLSDLDWIGEPDDSDFKLPDSFI
RKFKQDLMRDLNKKCRNHFSIIKLIHPGLQFCKVPKVYQALPTWFDLRNLELVTPTRDNS
TEKQCKASWAFGPIASLESAWLESHDRIASDAFSLSAQNLIDCAGYQGCNGGVDVIEAFN
YLQEKGVVKEENYKYKGKKHACRWRLFYRRYKIKSYCAICPATVETIKKFLFKHKTALTT
VISVRNLTAFKNIDDEILYEDEGPSVQRRLVVNIGGWRHDDATDRDYWVVKNSWGRKWGM
GGYGFVDAEENLFGILDQNYLLSVKDEVIPFEAEPDDS

>AAS93675.1 Putative Sar s 1 allergen SMIPP-C Yv5009F04 [Sarcoptes scabiei type hominis]
MESKKFKSFLFQLIISAAIITRGYYFETTPSDAEENARLSDVRYTGEPDDPDFKLPDSFI
QKFKKDLMRELTRKCRKGFRQARLEHPELQFCKIPKVFQKLPKWFDLRNLEFVTPTRDNS
TESKCKASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGCDGGVDVIEAFN
YMKHKGIVKEEFYKYRAKKHRCRKRLRARRYKIRSYCAICPATIFTIKKFLFKHKTALTT
VISVRNLTAFKHIDDEILYEDEGTRVQRRLVVNIVGWRHDDATDRDYWVVKNSWGKKWGM
GGYGFVDAENNPLHILDHNYLVRVKEDVIPFENEPEDFE

>AAS93676.1 Putative Sar s 1 allergen SMIPP-C Yv6018B11 [Sarcoptes scabiei type hominis]
LMRELTRKCRKGFRRARLEHPELQFCEIPKVFQKLPKWFDLRNLELVTPTRDNSTEKKCK
ASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGCDGGVDVIEAFNYMKHKG
IVKEEFYKYKAKKHHCRKRLRARRYKIRSYCAICPATIFTIKKFLFKLKTALTTVISVRN
LTAFKNIDDEILYEDEGPRVQRRLVVNIVGWRHDDATDRDYWVVKNSWGKKWGMGGYGFV
DAENNPFHILDHNYLVRVKEDVIPFENEPEDFE

>AAR98518.1 Putative major latex allergen Hev b 4 [Hevea brasiliensis]
MASLAYSLFILSLFTFTLLNPVCTELDEYLFSFGDGLYDAGNAKFIYPDKYLPSYHHPYG
TTFFDYPTGRFSDGRTVVDFVAENVSLPRIPPFKNKEANFTYGANFASEGATASDSNPLI
DFRSQIRDFGELKLEWAVQLVNVTELARRLKKAVYLISFGADDYLNYEIPSEASREQLES
IVDVVLGNISDRIKELYDFGARKFVVENVAPLGLIPFIKQTSDNSTLFYELASLHAMKLP
QILEKIQDGYLFPEFNYTVFNYFGIIKEIIDAPGEHGFKYGDIACCGNSTYRGQACGFLD
YEFCVCGNKTEYLFFDGTHNTDAANNLLAELMWDKESGFISPYGVKDFFPSPTTIQTLLT
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]
GNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIVKVSKEHVQELTK
HAKSVSKKGSEEEDITNPINLRDGEPDLSNNFGRLFEVKPDKKNPQLQDLDMMLTCVEIK
EGALMLPHFNSKAMVIVVVNKGTGNLELVAVRKEQQQRGRREQEWEEEEEDEEEEGSNRE
VRRYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEK
QAKDLAFPGSGEQVEKLIKNQRESHFVSARPQSQSPSSPEKEDQEEENQGGKGPLLSILK
AFN

>AAT00595.1 Allergen conarachin [Arachis hypogaea]
LEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIVKVSKEHVEELTKHA
KSVSKKGSEEEGDITNPINLREGEPDLSNNFGKLFEVKPDKKNPQLQDLDMMLTCVEIKE
GALMLPHFNSKAMVIVVVNKGTGNLELVAVRKEQQQRGRREEEEDEDQEEEGSNREVRRY
TARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEKQAKD
LAFPGSGEQVEKLIKNQRESHFVSARPQSQSPSSPEKEDQEEENQGGKGPLLSILKAFN

>AAT00596.1 Allergen conarachin [Arachis hypogaea]
GFDQRSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQGQATVTVANGNNRKSFN
LDEGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFEDFFPASSRDQSSYLQGFS
RNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIVKVSKEHVEELT
KHAKSVSKKGSEEGDITNPINLREGEPDLSNNFGKLFEVKPDKKNPQLQDLDMMLTCVEI
KEGALMLPHFNSKAMVIVVVNKGTGNLELVAVRKEQQQRGRREEEEDEDEEEEGSNREVR
RYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEKQA
KDLAFPGSGEQVEKLIKNQKESHFVSARPQSQSQSPSSPEKESPEKEDQEEENQGGKGPL
LSILKAFN

>Q7M4I5.1 Allergen Phospholipase A2 (Phosphatidylcholine 2-acylhydrolase) [Apis dorsata]
IIYPGTLWCGHGNVSSSPDELGRFKHTDSCCRSHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDKFYDCLKNSSDTISSYFVGEMYFNILDTKCYKLEHPVTGCGKRTEGRCLNYTVDK
SKPKVYQWFDLRKY

>Q7M4I6.1 Putative RecName: Full=Phospholipase A2; AltName: Full=Phosphatidylcholine 2-acylhydrolase; AltName: Allergen=Bom p 1 [Bombus pennsylvanicus]
IIYPGTLWCGNGNIANGTNELGLWKETDACCRTHDMCPDIIEAHGSKHGLTNPADYTRLN
CECDEEFRHCLHNSGDAVSAAFVGRTYFTILGTQCFRLDYPIVKCKVKSTILRECKEYEF
DTNAPQKYQWFDVLSY

>Q7Z1K3.1 Allergen Major allergen Ani s 1 precursor (Excretory gland allergen Ans1) (21 kDa allergen) [Anisakis simplex]
MASMQHFSLAALLLAASICLGDADRTECQLPLDKGTPCTQEGGVKPSVAWWHDDKSGICL
SFKYTGCGGNANRFTTIKNCEQHCKMPDRGACALGKKPAEDSNGEQLVCAGMREDKCPNG
YQCKMMAFMGLCCPTKEEELFAREYEGVCKSGKPVKMDRGSGWMMTILGKSCDDQFCPED
AKCERGKLFANCCK

>Q7M1X5.1 Allergen Major pollen allergen Lol p 11 (Lol p XI) [Lolium perenne]
DKGPGFVVTGRVYCDPCRAGFETNVSHNVEGATVAVDCRPFDGGESKLKAEATTDKDGWY
KIEIDQDHQEEICEVVLAKSPDKSCSEIEEFRDRARVPLTSNXGIKQQGIRYANPIAFFR
KEPLKECGGILQAY

>Q7M1E7.1 Putative Polygalacturonase precursor (PG) (Pectinase) (Major pollen allergen Cha o 2) [Chamaecyparis obtusa]
MGMKFMAAVAFLALQLIVMAAAEDQSAQIMLDSDIEQYLRSNRSLKKLVHSRHDAATVFN
VEQYGAVGDGKHDSTEAFATTWNAACKKASAVLLVPANKKFFVNNLVFRGPCQPHLSFKV
DGTIVAQPDPARWKNSKIWLQFAQLTDFNLMGTGVIDGQGQQWWAGQCKVVNGRTVCNDR
NRPTAIKIDYSKSVTVKELTLMNSPEFHLVFGECEGVKIQGLKIKAPRDSPNTDGIDIFA
SKRFHIEKCVIGTGDDCIAIGTGSSNITIKDLICGPGHGISIGSLGRDNSRAEVSHVHVN
RAKFIDTQNGLRIKTWQGGSGLASYITYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQGVTYKNIHGTSATAAAIQLMCSDSVPCTGIQLSNVSLKLTSGKPASCVDKNARGFYS
GRLIPTCKNLRPGPSPKEFELQQQPTTVMDENKGACAKGDSTCISLSSSPPNCKNKCKGC
QPCKPKLIIVHPNKPQDYYPQKWVCSCHNKIYNP

>AAT40866.1 Putative tropomyosin [Tyrophagus putrescentiae]
MDAIKNKMQAMKLEEDNAIDRAEIAEQKARDANLKSEKTEEEVRALQKKIQQIENELDQV
QENLTQATTKLEEKEKALQTAEADVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMRKMLEHRSITDEERMDGLESQLKEARLMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAYEQQIRIMTSKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYESISDELDQTFAELTGY

>AAT45383.1 Putative parvalbumin [Lates calcarifer]
MAFSNVLSDSDVAAALDGCKDAGTFDHKKFFSACGLSNKTSDDVKKAFAIIDQDKSGFIE
EEELKLFLQNFKADARVLTDVETSTFLKAGDTDGDGKIGADEFTALVKP

>AAT66566.1 Putative major allergen alt a1 [Stemphylium vesicarium]
ALFAAAGLAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNSLSFNIKATNK
GTLDFTCSAQADKLEDDKFYSCGENSFMSFAFQSDRNGLLFRQDVSDEITYVATATLPNY
CHAGGNGPKDFVCQGVS

>AAT66567.1 Putative major allergen alt a1 [Stemphylium callistephi]
TLFAAAGLAAAAPLEAPQANTTCPVSTQGDYVWKISEFSGRKPEGTYYNNLSFNIKATNG
GTLDFTCSAQADKLEEDEFYSCGENSFISFAFQSDRSGLLLRQDVSDEITYLATATLPNY
CRAGGNGPNDFICQGVS

>CAE52833.1 Allergen polygalacturonase [Platanus x acerifolia]
RGVQSSGSVFNVNDYGAKGAGDISQAVMKAWKAACASQGPSTVLIPKGNYNMGEVAMQGP
CKGSKIGFQIDGVVKAPADPSKFKSDGWVSFYRIDGLTVSGTGTLDGQGQTAWAKNNCDK
NPNCKHAAMNLRFDFLKHAMVRDITSLNSKMFHINVLECEDITFQHVTVTAPGTSINTDG
IHVGISKGVTITNTKIATGDDCISIGPGSQNVTITQVNCGPGHGISIGSLGRYNNEKEVR
GITVKGCTFSGTMNGVRVKTWPNSPPGAATDLTFQDLTMNNVQNPVILDQEYCPYGQCSR
QAPSRIKLSNINFNNIRGTSTGKVAVVIACSHGMPCSNMKIGEINLSYRGAGGPATSTCS
NVKPTFSGKQVPAIKCA

>AAO67349.2 Allergen oleosin [Corylus avellana]
MADRPQQLQVHPQRGHGHYEGGIKNQRGGGPSAVKVMAVLAALPVGGTLLALAGLTLAGS
VIGLLVTSPLFIIFSPVLVPAAIVVGLAVASFLSSGALGLTGLSSLSWVLNYLRCASQSL
PREMDQAKRRMQDMAAFVGQKTREVGQEIQSRAQEGRRT

>CAH03799.1 Allergen lipid transfer protein [Citrus sinensis]
ITCGQVTGSLAPCIVYLRSGGPIPVPCCNGVRSLNAAARTTPDRQTACNCLKQAAGSIPN
LNPNNAVGLPRACGVSIPYKISISTDCSKVR

>AAT77152.1 Putative arginine kinase [Periplaneta americana]
MVDAAVLEKLEAGFAKLAASDSKSLLKKYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVTAVNDIEKRIPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>AAT80649.1 Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVTKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRNGGAVPPACCNGIRTINS
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNVPYKISTSTNCATVK

>AAT80659.1 Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVIKLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSGGPVPPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPGNAESLPGKCGVNVPYKISTSTNCATVK

>AAT80662.1 Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSGGPVPPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPGNAESLPGKCGVNVPYKISTSTNCATVK

>AAT80664.1 Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSDGPVPPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPGNAESLPGKCGVNVPYKISTSTNCATVK

>AAT80665.1 Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSGGPVPPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPGNVESLPGKCGVNVPYKISTSTNCATVK

>AAT95008.1 Putative allergen Sol i 1 precursor [Solenopsis invicta]
MRKFAAIFVVFFVQCTHLYSLAQARAEPDPGVVEYLKQSCVYGNSSYINVYLYNSRFQGK
NLGNQQSCQDINASLPVVFITHGFTSSAQVSTFKDLANAFVQKGHTAFIVDWSEAACTDG
LPGVQFAEYNAAASNTYDIGQLMAKYTVDLMNKCKIPLNNIQYVGHSLGSHVCGFAAKHV
KKLINKTMPYILALDPADPSFGSNKCGERICKSDAKRIVVFKTSILGIGENIIGHLLIVF
DGGKSQPACSWYDVPCSHSESIVYATGMVSGRCQHLAVPWTAQQRINPIQWKFWRVFTSN
IPAYPTSDTTNCVVLNTNVFKNDNTFEGEYHAFPDCARNLFKCRQQ

>AAT95009.1 Allergen allergen Pol e 5 precursor [Polistes exclamans]
MEIGGLVYLVIVVAIIHSSQGVDYCKIRCPSGIHTVCQYGESTKPSKNCAGKVIKSVGPT
EEEKKLIVSEHNRFRQKVAQGLETRGNPGPQPAASDMNDLVWNDELAHIAQVWASQCQFL
VHDKCRNTAKYPVGQNIAYAGGSKLPDVVSLIKLWENEVKDFNYNTGITKQNFAKIGHYT
QMVWGKTKEIGCGSLKYMENKMQNHYLICNYGPAGNYLGQLPNTKK

>AAT95010.1 Allergen allergen Pol d 5 precursor [Polistes dominulus]
MKISCLICLVIVLTIIHLSQANDYCKIKCSSGVHTVCQYGESTKPSKNCAGKLIKSVGPT
EEEKKLIVEEHNRFRQKVAKGLETRGNPGPQPAASNMNNLVWNDELAKIAQVWASQCQIL
VHDKCRNTEKYQVGQNIAYAGSSNHFPSVTKLIQLWENEVKDFNYNTGITNKNFGKVGHY
TQMVWGNTKEVGCGSLKYVEKNMQIHYLICNYGPAGNYLGQPIYTKK

>BAD36780.1 Putative pilosulin 4 [Myrmecia banksi]
MKLSCLLLTLAIIFVLTIVHAPNVKAKALADPESDAVGFADAVGEADPFDITKLNIKKLT
KATCKVISKGASMCKVLFDKKKQE

>AAT99258.1 Putative pectin-methyltransferase precursor [Salsola kali]
MEEHVSMLLVGFVLINIAFTSIAQLIPPNPAELESWFQGAVKPVSEQKGLEPSVVQTESG
GVETIEVRQDGSGKFKTISDAVKHVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGI
DPKNRPTITFAGTAAEFGTVDSATVIVESDYSVGAHLIVTNSAPRPDGKRKGAQAGALRI
SGDRAAFYNCKFTGFQDTVCDDKGNHFFTDCYTEGTVDFIFGEARSLYLNTELHVVPGDP
MAMITAHARKNADGVGGYSFVHCKVTGTGGTALLGRAWFDAARVVFSYCNLSDAAKPEGW
SDNNKPEAQKTILFGEYKNTGPGAAPDKRAPYTKQLTEADAKTFTSLEYIEAAKWLLPPP
KV

>Q9LD79.2 Putative Pathogenesis-related protein precursor (Potential major pollen allergen Jun v 3) [Juniperus virginiana]
AFLLAATLTISSHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGQTWTVNLAAGTAS
ARFWGRTGCTFDASGKGSCQTGDCGRQLSCTVSGAVPATLAEYTQSDQDY

>P15322.2 Allergen Allergen Sin a 1 precursor (Sin a I) [Contains: Allergen Sin a 1 small chain; Allergen Sin a 1 large chain] [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDEFDFEDDMENPQGPQQ
RPPLLQQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIRQVSVCPFKKTMPGPS

>AAU11502.1 Putative fatty acid-biding protein [Tyrophagus putrescentiae]
MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGDSYTIKTSSTLKNS
EIKFKLGEEFEEDRADGKKVQTSVTKEGDNKLVQVQKGDKPVTIVREFSEEGLTVTATVN
GVTSVRFYKRQ

>AAU21500.1 Putative oleosin 2, partial [Arachis hypogaea]
MTDRTQPHAVQVHTTAGRFGDTAAGTNRYADRGPSTSKVIAVITGLPIGGTLLLFAGLAL

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]
MVAIKNLFLLAATAVSVLAAPSPLDARATWTCINQQLNPKTNKWEDKRLLYSQAKAESNS
HHAPLSDGKTGSSYPHWFTNGYDGNGKLIKGRTPIKFGKADCDRPPKHSQNGMGKDDHYL
LEFPTFPDGHDYKFDSKKPKEDPGPARVIYTYPNKVFCGIVAHQRGNQGDLRLCSH

>CAD54670.2 Allergen pollen allergen Phl p 4 [Phleum pratense]
SSCEVALSYYPTPLAKEDFLRCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PIYIVTPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAV
WVDGKARTAWVDSGAQLGELYYAIHKASPVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVF
KIPKKASEGAVDIINRWQVVAPQLPDDLMIRVIAQGPTATFEAMYLGTCQTLTPMMSSKF
PELGMNASHCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEV
WEQIFSTWLLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAA
PLSWSKEIYNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQ
RLAITKGKVDPTDYFRNEQSIPPLIQKY

>CAD54671.2 Allergen pollen allergen Phl p 4, partial [Phleum pratense]
SSCQVAFSYFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PLYIITPTNVSHIQSAVVCGRRHSVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAV
WVDGKARTAWVDSGAQLGELYYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTIF
KISKTVSEGAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKF
PELGMNPSHCNEMSWIQSIPFVHLGHRDALEDDLLNRNNSFKPFAEYKSDYVYQPFPKTV
WEQILNTWLVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAA
PLSWSKDIYNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFE
RLAITKGKVDPTDYFRNEQSIPPLIKKY

>AAV33670.1 Putative 18 kD winter accumulating protein A [Morus bombycis]
MGVFTFDDEFTSTVAPARFFKAAVLDADNLFPKVAPQAAKSAETVEGNGGPGTVKKITLP
DGKYVKQRLDSIDHDNFTYGHSIIEGDVLSADIEKISHVTKFVASPSGGSIIKVTTTFHT
VGDAPVDEAKAKEGKEKAEGLFKLVEGYLEANPSAYN

>AAV33672.1 Putative 18 kD winter accumulating protein C [Morus bombycis]
MGVSTHNDEFTSTVAPARLFKAAVLDADNLFPKIAPDAAKSAENIEGNGGPGTIKKITFP
DGKYVKQKLDAIDLDNYSYSHSIIEGDILSAELEKISHETKFVAAPGGGSVIKVTTTFHT
VGNATVDEAKAKEGKEKAAGLFKLVEGYLEANPSAYN

>AAT37679.1 Putative vacuolar serine protease [Rhodotorula mucilaginosa]
TMELLEDLIEQVRQLPMVNFIEKNSLVHANEFTVAKGAPWGLARISHRDPLSLGSFDQYL

YDSNGGTGVTSYVIDTGVNVHHEQFEGRAKWGKTIPQGDEDEDGNGHGTHCAGTIGSNAY
GVAKNAEIVAVKVLRSNGSGSMSDVIKGVEFAVKSHQDSVKKGKNSFSTANMSLGGGKSP
ALDLAVNAAVKAGLHFAVAAGNENQDACNTSPASAENAITVGASTISDARAYFSNYGKCV
DIFAPGLNILSTYIGSDAATAYLSGTSMASPHIAGLLTYYLSLQPSSDSEFFIGAEGITP
AQLKKNLIAFGTPDVLADIPADTPNILAFNGAGQNLTKFWGH

>AAV40850.1 Allergen lipid transfer protein 1 precursor [Prunus persica]
MAYSAMTKLALVVALCMVVSVPIAQAITCGQASSSLAPCIPYVRGGGAVPPACCNGIRNV
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]
MAPKKDVKKPAAAAAPAPAPAPAPAPAPAKPKEPAIDLKSIKIEFSKEQQDDFKEAFLLF
DRTGDAKITLSQVGDIVRALGQNPTNAEINKILGNPSKEEMNAKKITFEEFLPMLQAAAN
NKDQGTFEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMTEEEVEELMKGQEDSNGCI
NYEAFVKHIMSV

>CAH92627.1 Putative pollen allergen Sec c 4 [Secale cereale]
NYRAFALALLFCALSCQAAAAAYAPVPAKADFLGCLMKEIPARLLYAKSSPDYPTVLAQT
IRNSRWSSPQNVKPIYIITPTNASHIQSAVVCGRRHGIRLRVRSGGHDYEGLSYRSEKPE
TFAVVDLNKMRAVSVDGYARTAWVESGAQLGELYYAIAKNSPVLAFPAGVCPSIGVGGNF
AGGGFGMLLRKYGIAAENVIDVKVVDPNGKLLDKSSMSADHFWAVRGGGGESFGIVVSWQ
VKLLPVPPTVTVLKIPKTVQEGAIDLVNKWQLVGPALPGDLMIRIILAGNSATFEAMYLG
TCSTLTPLMSSKFPELGMNPSHCNEMSWIKSIPFIHLGKQNLDDLLNRNNTFKPFAEYKS
DYVYQPFPKPVWEQIFGWLVKPGAGIMIMDPYGATISATPEAATPFPHRQGVLFNIQYVN
YWFAESAGAAPLQWSKDIYKFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYSSGKVW
GEKYFKGNFQRLAITKGKVDPQDYFRNEQSIPPLVEKY

>CAH92630.1 Putative pollen allergen Sec c 4 [Secale cereale]
NSRAFALVPLLICVLSCHAAVSYAAAPVPAKEDFFGCLVKEIPARLLYAKSSPAFPTVLA
QTIRNSRWSSPQSVKPLYIITPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSER
PEAFAVVDLNKMRAVVVDGKARTAWVDSGAQLGELYYAIAKNSPVLAFPAGVCPTIGVGG
NFAGGGFGMLLRKYGIAAENVIDVKVVDANGTLLDKSSMSADHFWAVRGGGGESFGIVVS
WQVKLLPVPPTVTVFKIPKTVQEGAVELINKWQLVAPALPDDLMIRIIAFGGTAKFEAMY
LGTCKALTPLMSSRFPELGMNASHCNEMPWIKSVPFIHLGKQATLSDLLNRNNTFKPFAE
YKSDYVYQPVPKPVWAQIFVWLVKPGAGIMVMDPYGAAISATPEAATPFPHRKDVLFNIQ
YVNYWFDEAGGAAPLQWSKDMYRFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYASG
KVWGEKYFKGNFQRLAITKGKVDPQDYFRNEQSIPPLLGK

>CAH92637.1 Allergen pollen allergen Lol p 4 [Lolium perenne]
AVVCGRRYDVRIRVRSGGHDYEGLSYRSLQPENFAVVDLNQMRAVLVDGKARTAWVDSGA
QLGELYYAISKYSRTLAFPAGVCPTIGVGGNLAGGGFGMLLRKYGIAAENVIDVKLVDAN
GKLHDKKSMGDDHFWAVRGGGGESFGIVVSWQVKLLPVPPTVTIFKIPKSVSEGAVDIIN
KWQLVAPQLPADLMIRIIAMGPKATFEAMYLGTCKTLTPMMQSKFPELGMNASHCNEMSW
IESIPFVHLGHRDSLEGDLLNRNNTFKPFAEYKSDYVYEPFPKSVWEQIFGTWLVKPGAG
IMIFDPYGATISATPEAATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEIYNYMEPY
VSKNPRQAYANYRDIDLGRNEVVNGVSTYSSGKVWGQKYFKGNFERLAITKGKVDPTDYF
RNE

>CAI05848.1 Allergen mite allergen Der f 2 [Dermatophagoides farinae]
MISKILCLSLLVAAVVADQVDVKDCANHEIKKVMVDGCHGSDPCIIHRGKPFNLEAIFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>CAI05849.1 Allergen Der f 2 [Dermatophagoides farinae]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHAKIRD

>CAI05850.1 Allergen mite allergen Der f 2 [Dermatophagoides farinae]
MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>CAI23765.1 Allergen profilin [Citrus sinensis]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGIIVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>AAV74343.1 Allergen Fra e 1.0102 major allergen [Fraxinus excelsior]
EDVPQPPVSLFYVQGQVYCDTCRAGFITELSEFIQGAGVRLQCKEKENGKVTFTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCHEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEALPKCPQVYNKLGMYPPNM

>P84296.1 Putative Globin CTT-VIIB-4 precursor (Erythrocruorin)
[Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNASNAAAVEGLLNKLGSDHKARGVSAAQ
FGEFRTALVSYLSNHVSWGDNVAAAWNKALDNTMAVAVAHL

>P84298.1 Putative Globin CTT-VIIB-5/CTT-VIIB-9 precursor [Chironomus
thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNTSNAAAVNSLVSKLGDDHKARGVSAAQ
FGEFRTALVAYLQANVSWGDNVAAAWNKALDNTFAIVVPRL

>P02226.2 Putative Globin CTT-VIIA precursor [Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLSADQAALVKSTWAQVRNSEVEILAAVFTAYPDIQARFPQFA
GKDVASIKDTGAFATHAGRIVGFVSEIIALIGNESNAPAVQTLVGQLAASHKARGISQAQ
FNEFRAGLVSYVSSNVAWNAAAESAWTAGLDNIFGLLFAAL

>BAD77932.1 Putative class IV chitinase [Cryptomeria japonica]
MQIMATQNSKSNIFWSSSASVVLVLLLLVDVGVCQNCGCNGLCCSQYGYCGSGEAYCGAG
CKEGPCSSSSPPSTGTGVGSIVSSDVFNSIVGGAASGCAGNGFYTYDSFISAANAFNGFG
TSGSSDVNKREIAAFFANAAHETGGFCYIEEQNPTSIYCDASNTQYPCASGKTYHGRGPL
QLSWNYNYGAAGSYIQFDGLNNPEIVGTDSTISFKTAVWFWMVNSNCHTAITSGQGFGAT
IRAINSMECDGGNAATVASRVNYYQKFCQQLNVDTGSNLQC

>AAV97933.1 Putative parvalbumin beta-1 [Lates calcarifer]
MAFAGILNEADITAALAACQAADSFKHKDFFVKVGLAGKSDDDVKKAFAVIDQDKSGFIE
EDELKLFLQNFSASARALTDAETKEFLKAGDSDGDGKIGVDEFAALVKV

>AAW29810.1 Putative seed storage protein [Juglans regia]
MAKPILLSIYLFLIVALFNGCLAQSGGRQQQQFGQCQLNRLDALEPTNRIEAEAGVIESW
DPNNQQFQCAGVAVVRRTIEPNGLLLPQYSNAPQLVYIARGRGITGVLFPGCPETFEESQ
RQSQQGQSREFQQDRHQKIRHFREGDIIAFPAGVAHWSYNDGSNPVVAISLLDTNNNANQ
LDQNPRNFYLAGNPDDEFRPQGQQEYEQHRRQQQRQQRPGEHGQQQRGLGNNVFSGFDAD
FLADAFNVDTETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERERES
ESERRQSRRGGRDDNGLEETICTLRLRENIGDPSRADIYTEEAGRISTVNSHTLPVLRWL
QLSAERGALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTIP
QNFAVVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLATAFQIPREDARRLK
FNRQESTLVRSRPSRSRSSRSERRAEV

>AAP13533.2 Allergen profilin [Cucumis melo var. reticulatus]
MSWQVYVDEHLMCEIEGNHLTSAAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTKYMVIQGEPGAVIRGKKGPGGVTVKKTGMALVIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>CAE17316.1 Putative villin 1 [Nicotiana tabacum]
EGGGKIEVWRINGSAKTPVPGDDIGKFYSGDCYIVLYTYHCNDRKEDYYLCWWIGKDSVE
EDQNMAAKLASTMCNSLKARPVLGRVYQGKEPPQFVAIFQPMLVLKGGLSSGYKSYIADK
GLNDETYTADSVALIRLSGTSVHNNKAVQVDAVATSLNSNECFLLQSGSSVFSWHGNQST
YEQQQLAAKVAEFLKPGVTVKHAKEGTESSTFWFALGGKQSYTSKKIASEVARDPHLFAY
SFNKGKFEIEEIYNFSQDDLLTEDVLLLDTHAEVFVWVGQSSDPKEKQSSFEVGQKYIEM
AASLEGLSPHVPLYKVMEGNEPCFFTTFFSWDPAKAIAHGNSFQKKVMLLFGVGHASENQ
QRFNGTNQGGATQRASALAALNSAFSSSSPAKSSSAPRSAGKSPGSQRAAAIAALSSALS
AEKKQPPEGGSPLRLSRTSSVDAIAPGNEVSTAEIEDSKEVPERKEIETVEPAETDGEDV
GPKPEPEQDETGNDSSQTTFSYERLKAKSENPVTGIDLKRREAYLSDEEFESVLEMTKEA
FYKLPKWKQDIHKKKVDLF

>CAE17317.1 Putative villin 2 [Nicotiana tabacum]
REDYYLCWWIGKDSIEEDQSMAARLASTMCNSFKGRPVLGRVFQGKEPPQFVAIFQPMLV
LKGGLSSGYKNYIADKGLNDETYAADSVALIRLSGTSVHNNKAVQVDAVPASLNSNECFL
LQSGSSIFSWHGNQSTYEQQQLAAKVAEFLKPGATVKHTKEGTESSAFWFAVGGKQSYTS
KKVATEVSRDPHLFAYSFNKGKFEVEEIYNFSQDDLLTEDILLLDTHAEVFVWIGQSADS
KEKQSAFDVGQKYVEMAASLEGLSPNVPLYKVTEGNEPCFFTTFFSWDPAKRSAHGNSFQ
KKVMLLFGVGHASENQQRSNGSGGPTQRASALAALNSAFSSPSPPKSSSAPRPAGTSSAS
QRAAAIAALSGVLTAEKKQSSEGGSPVRSNRSSPVRSSRSSPVRSADSGPTENDLSTAEV
QDSEKASEPKEIVEPAESNGSEPKPEAEQDEGGNESGQAIFSYEQLKAKSDNPVTGIDFK
RREAYLSDEEFESVLGMKKEAFYKLPKWKQDMHKRKVDLF

>AAW69549.1 Allergen profilin [Cucumis melo]
MSWQVYVDEHLMCEIEGNHLTSAAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTKYMVIQGEPGAVIRGKKGPGGATVKKTGMALVIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>CAG26895.1 Allergen Arg r 1 precursor [Argas reflexus]
MALIILLVACLSVVSADDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTDFKE
NTKTATYTYGYKDASGKLTKTTGTATAKGSDIVVGSDTSTVIYTDGKTCDVVKHGGHTEL
WVHSSKTSGGYNNCCDKKFTETRGSTPANEVYKKCPGMP

>NP_001011564.1 Putative major royal jelly protein 8 precursor [Apis mellifera]
MIRWLLLMYLGITCQGVTDIHSRNLTNSLKVIYEWKYIDYDFGSDEKRQAAIQSGDYNYT
MNYLLDTDQWGDKTFVIIMKFNGVPSSLNVITNKTGNGGPLLAPYPDWTWAKNENCSGIT
SAYKIEIDMCDRLWVLDSGLINNVRSVCPPQLLVFDLNTSQLLKQVKIPHDIAVNTTTEK
GALVTLSVQLLSCEVNGSTLVYIGDNEGFALIIYNNSDNSFQRLTSSTFASDPRYTTFTI
NGESFTLQSGIFGMALSPLTQNLYYSALSSHNLNYVNTEQFVKSQYQANNVHYQGKENIL
WTQASAKGISDNGVLFFGLVGDTSLACWNENRLLDRRNIEVVAKNKETLQAITGLKVKRR
ISFILVHGFPLEYEYVLAVSNRIQKVIYGFDFNDVNFRILIANVNDLIKNTRCISP

>AAW81034.1 Putative profilin [Crocus sativus]
MSWQTYVDEHLMCDMDGHVLTSAAILGHDGSVWAQSAGFPELKPAEITAILNDFNEPGSL
APTGMYINGAKYMVIQGEPGVVIRGKKGSGGVTIKKSNMALIFGLYDEPMTPGQCNLVVE
RLGDYLIEQGY

>P69199.1 Putative Polcalcin Bra r 2 (Calcium-binding pollen allergen Bra r 2) [Brassica rapa subsp. rapa]
MADATEKAEHDRIFKKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYI
SYQEFSDFASANRGLMKDVAKIF

>AAX11194.1 Putative 60S acidic ribosomal P1 phosphoprotein Pen b 26 [Penicillium brevicompactum]
MSTAELAVSYAALILADDGIEVSADKIQTILGAAKVQEVEPIWATIFAKALEGKDIKEIL
TNVGSAGPATAGAPAAAGAAAPAEEKKEEKEEEKEESDEDMGFGLFD

>AAX11261.1 Putative pectin methylesterase allergenic protein [Salsola kali]
QPIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSGKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIEGLHPYITLYGIDPKNRPTITFAGTAAEFGTVDSA
TLIVESDYFVGANLIVSNSAPRPAGKRKGAQASALRISGDRAAFYNCKFTGFQDTVCDDK
GNHLFKDCYIEGTVDLIFGEARSLYLNTELHVVPGDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEAARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFGEYKNTGPG
AAADKRVPYTKQLTEADAKTFTSLEYIEAAKWLPPPPKV

>AAX11262.1 Putative pectin methylesterase allergenic protein [Salsola kali]
QPIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSGKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFGTVDSA
TLIVESDYFVGANLIVSNSAPRPDGKRKGARASALRISGDRAAFYNCKFTGFQDTVCDDK
GNHLFKDCYIEGTVDFIFGEARSLYLNTELHVVPGDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEAARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFGEYKNTGPG
AAADKRVPYTKQLTEADAKTFTSLEYIEAAKWLLPPPKV

>AAX14379.1 Putative vacuolar serine protease [Davidiella tassiana]
MRGALAGLSLATLATASPVLVNSIHNDAAPIISASNAKEIADNYMIKFKDHVTQNLAAEH
HGWVQDLHEKTQVAKTELRKRSQSPMVDDIFNGLKHTYNIAGGLMGYAGHFDEDVIEQIR
RHPDVELVERDQEVHVLGSESEVEKNAPWGLARISHRDSLSFGTFNKYLYTEDGGEGVDV
YVVDTGTNVDHVDFEGRASWGKTIPQGDADEDGNGHGTHCSGTVAGKKYGVAKKAHVKAV
KVLRSNGSGSMSDVVKGVEYAAESHLEQVSITKKGKRKGFKGSTANMSLGGGKSPILDKA
VNAAVDAGIHFAVAAGNDNADSCNYSPAAAENAVTVGASTLADERAYFSNYGKCNDIFAP
GLNIQSTWIGSKYAVNTISGTSMASPHVAGLLAYLLSLQPAKDSAFAVADISPKKLKANL
ISIATVGALTDVPSNTANILAWNGGGESNYSAIVEKGGYKATHRPTMLEEIESEAKVASK
KVYSEGDELAHKVAELTEKVEDLIAGELKDMFRELKRE

>AAX19848.1 Putative thaumatin-like protein precursor [Malus x domestica]
MMKSQVASLLGLTLAILFFSGAHAAKITFTNNCPNTVWPGTLTGDQKPQLSLTGFELASK
ASQSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCPQAYSYAYDDKNSTFTCSGGPDY
VITFCP

>AAX19851.1 Putative thaumatin-like protein precursor [Malus x domestica]
MMKSQAASLLGLTLAILFFSGAHAAKITFTNNCPNTVWPGTLTGDQKPQLSLTGFELASK
ASQSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCPQAYSYAYDDKNSTFTCSGGPDY
VITFCP

>AAX19854.1 Allergen profilin 1 [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEGGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE
RLGDYLIDQGL

>AAX19856.1 Allergen profilin 1 [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEGGAVIRGKKGSGGVTVKKTGQDLVFGIYEEPLTPGQCNMIVE

RLGDYLIDQGL

>AAX19858.1 Allergen profilin 2 [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGVVIRGKKGPGGVTVKKSTMALLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>AAX19860.1 Allergen profilin 2 [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGVVIRGKKGPGGVTVKKSTMALLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>AAX19889.1 Putative pathogenesis-related protein 10 [Vigna radiata]
MAVFTFDDQATSPVAPATLYNALAKDADNIIPKAVGSFQSVEIVEGNGGPGTIKKISFVE
DGETKFVLHKIESVDEANLGYSYSIVGGVALPDTAEKITIDTKISDGADGGSLIKLTISY
HGKGDAPPNEDELKAGKAKSDALFKAVEAYLLANP

>AAX33727.1 Putative Per a 2 allergen [Periplaneta americana]
MTFLIQSAFVALAAISAVLCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPSASCVSGGCNCANVHKYYSNKPVSNNVASVPILGSGYANGSEAHDYIAVSTLNA
TNQGFLLADDISNDICSLGADCVIGLGRPKSGRAAFNLPTVMENFVNQDNIANSFSFHHG
RYPDGQHRGVLVLGGPIPAYYRGDFTYVPLVDQDTWNFKVDSISVGNEVIATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTLCVFDCDKLDNVPSVTFTIGGVAFNISSTY
QIQQNGDLCYSGFQYSAGKCFHFGDFFMDNYYGEFDGQNKRMGFAKSVEEL

>AAX33728.1 Putative Per a 4 allergen [Periplaneta americana]
MLSILVVCLLAGFQLAAGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYD
KYTLDENGVIQVTSVAYTNSTRGFITSTGTVPSWTENTFDIAYGDNETWSSTYFMIGTDY
QTYSIVAGCLDNDYSRHLYWIASHGTSFDDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQ
YKS

>AAX33729.1 Allergen Per a 5 allergen [Periplaneta americana]
MTIDFYYLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPQHTIPTLNDK
GFCLWESRAILSYLADQYGKDDSLYRRDAKKRALVDQRLYFDIGTLYHRFGEYYYPIYFA
KQAADPEKMKKLEEAFEFLNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGCLKFKEMCDNLAKK

>AAX33730.1 Putative Per a 6 allergen [Periplaneta americana]
MDELPDEQIQLLKKAFDAFDREKNGFISTDMVGTILEMLGHPLDDDMLEEIIAEVDADGS
GELEFQEFVTLAARFLVEEDAEAMQQELKEAFRLYDKEGNGYITTTVLREILKELDDKLT
NEDLDAMIEEIDSDGSGTVDFDEFMEVMTGE

>AAX33734.1 Allergen MPA3 allergen [Periplaneta americana]
MLRYLVLASLIACSLSAVPKAKRPRLDGRIVGGRPADIADYPYQLSFEYYGSHMCGASII
SPNWVVTAAHCVDGVSASSATFRAGGSIRESGGSVHQATQLIANPNYDYYTIDFDVAVAR
VSPAFSYGTGVQPIPLASSEPSAGQIATVSGWGTTSEGGSTLPSQLQVVSVPIVSRSECN
QAYSDYGGITDDMICAAEQQGGKDACQGDSGGPLVVNGQLAGIVSWGVGCAEQGYPGVYS
NVASLKGFITEQTGVN

>AAX34047.1 Allergen Blo t 5.02 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>AAX35807.1 Putative lipid transfer protein 2 precursor [Lens culinaris]
MARGMKLACVVLVICMVVIAPMAEGAISCGAVTSDLSPCLTYLTGGPGPSPQCCGGVKKL
LAAANTTPDRQAACNCLKSAAGSITKLNTNNAAALPGKCGVNIPYKISTTTNCNTVKF

>AAX37288.1 Putative tropomyosin [Penaeus monodon]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>AAX37321.1 Putative glutathione transferase mu class Yv5004H11
[Sarcoptes scabiei type hominis]
MSSKPTLGYWNIRGLAQPIRMMLSYAGVDFVDKRYNYGPAPDFDRSEWLNEKFNLGLDFP
NLPYYIDGDVKLTQSLAILRYLARKHKLDGHNEQEWLRIALCEQQIVDLYMAMGRISYDP
NFEKLKPDYLEKLPDNLKLFSEFLGDHPFVAGTNLSYVDFFVYEYLIRLKAMTPEVFAKF
QNLGNYVNRFESMPKISAYLKQQQPQFFNGLMAKWNMKY

>AAX37326.1 Putative glutathione transferase mu class Dp7019C10
[Dermatophagoides pteronyssinus]
MSQPILGYWDIRGYAQPIRLLLTYSGVDFVDKRYQIGPAPDFDRSQWLNEKFNLGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNGSNDHEEIRISMAEQQTKDMMAAMIRVCYDAN
CDKLKPDYLKSLPDCLKLMSKFVGEHPFVAGANISYVDFYLYEYLCRVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQQPKTFNAPTSKWNASYA

>AAX40948.1 Allergen allergen Ziz m 1 [Ziziphus mauritiana]
MVPQAKLVVASLILTSALIQTSEAVGGIATYWGQYTETEEGSLAEACASNLYSYINIAYL
NIFGEGRYLSLNISGHCSDCTFLGEEIKACQSQGVKIFLSLGGPYGDYHLTTDGDADRVA
EQLWSSFLGGSKSTGVYQPLLGDVELDGIDLDIQIGPPEEYDVLARNLKDLTKDRTRPFY
LSAAPKCSAYNDSDAYLWTAVETGLFDFVWVKFYNDTSCQYNNDTAAGLDAFYRSWYDWT
VSLAEGNKLLIGIPASNETDNSPLGGYIPSDVLNDQIVSVIMTSSKFGGVNVWNRYYDLK
TNYSSSIILEYVNSGTKYLPLRTKFMYQNA

>AAX47076.1 Allergen Der p 1 allergen [Dermatophagoides pteronyssinus]
NEIAXAKIDLRQMRTVTPIXMQGGCGSCWALSGVAATESAYLAYGNXSLDLAEQELVDCA
SQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNK
IREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNAQGVDYW
IVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>AAX57578.1 Putative BW 16kDa allergen [Fagopyrum esculentum]
RDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDILDDKYAEALSRVEGEGCKSEES
CMRGCCVAMKEMDDECVCEWMKMMVENQKGRIGERLIKEGVRDLKELPSKCGLSEMECGS
RGNRYFV

>CAI77218.1 Allergen hyaluronidase b [Vespula vulgaris]
DRTIWPKKGFSIYWNIPTHFCHNFGVYFKELKQFNIKYNSMNNFRGETISLFYDPGNFPS
MVLLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETSAKIFMEKTLKLAKEIRKKTEWG
YHGYPHCLSGSTDKPSFDCDALSMSENDKMSWLFNNQNVLLPSIYLKNVLKPDEKIHLVQ
ERLKEAIRISKNFKHLPKVLPYWWYTYQDKESIFLTEADVKNTFKEILTNGADGIIIWGV
SYELTDRKRCEKLKEYLMKILGPIAFKVTKAVKENTPLNF

>AAX77383.1 Allergen 11S globulin precursor [Sinapis alba]
MVKLAHLLVATVGVLLVLNGCLARQSLGVPPQVKDACNLDNLDVLQPTEVIKSEAGQVEY
WDHNHPQIRCAGVSIARLVIQKGGLYLPTFFSSPFISYVVQGMGISGRVIPGCAETFMDS
QPMQGQQGQQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQGFRDMHQK
VEHVRHGDAIAMTPGSAQWIYNTGDQPLIIVSLIDIANYQNQLDRNPRTFRLAGNNQQGS
SQQQQQQQQNILSGFDPQVLAQALKIDVRLAQELQNQQDKRGNIVRVKGPFQVVRPPLRQ
AYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPNLGRVTSVNSYTLP
ILQYIRLSATRGILQGSAMVLPKYNMNANEILYCTQGQARIQVVNDNGQNVLDQQVQKGQ
LVVIPQGFAYVVQSQNNFEWISFKTNANAMISTLAGRTSALRALPLEVITNAYQISLEEA
RKIKFNTLETTLTRARGGQQPQLIEEIVEV

>AAX77384.1 Allergen 11S globulin precursor [Sinapis alba]
MVKLAHLLVATVGVLLVLNGCLARQSLGVPPQVKDACNLDNLDVLQPTETIKSEAGRLEY
WDHNNPQIRCAGVSIARLVIEQGGFYLPTFFSSPKISYVVQGMGISGRVIPGCAETFMDS
QPMQGQQQGHQGQQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQGQQQQ
GQQGFRDMYQKVEHVRHGDVIANTPGSAHWIYNTGDKPLVIISLLDIANYQNQLDRNPRV
FRLAGNNPQGGFGGPQQQQPQQNILNGFDPQVIAQALKIDVRLAQELQNKQDSRGNIVRV
KGPFQVVRPPLRQAYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPN
LGRVTSVNSYTIPILQYIRLSATRGILQGSAMVLPKYNMNANEILYCTQGQARIQVVNDN
GQNVLDQQVQKGQLVVIPQGFAYVVQSQNNFEWISFKTNANAMISTLAGRTSALRALPLE
VITNAFQISLEEARKIKFNTLETTLTRARGGQQPQLIEEIVEV

>AAX77684.1 Allergen calcium-binding protein isoallergen 1 [Ambrosia artemisiifolia]
MAEEEDKAERDRIFGAFDANKDGKISSTELGESLKNLGSVSPEEVQTMMEELDTDGDGFI
SYEEFTDFYNANRGLMKDVGKIF

>AAX77685.1 Allergen calcium-binding protein isoallergen 2 [Ambrosia artemisiifolia]
MAEDEDKAERDRIFGAFDANKDGKISSNELGEALKNLGSVSPEEVQTMMEELDTDGDGFI
SYEEFTDFYNANRGLMKDVGKIF

>AAX77686.1 Putative calcium-binding protein [Ambrosia artemisiifolia]
MAPENNKHSIFPTDKEEVTKIFNRFDTNGDGQISEDELFAILKSLGSDTSPDEVKRVMAE
IDADGDGFISLDEFILFCKGIESEGDEINDLKEAFKFYDQNNNGVISANELHQILGRLGE
NYSVESCADMIKSVDSDGDGFVDFEEFRKMMSRKGGDGAM

>AAX77687.1 Allergen profilin isoallergen 1 [Ambrosia artemisiifolia]
MSWQTYVDEHLMCDIEGTGQHLASAAIFGTDGNVWAKSSSFPEFKPDEINAIIKEFSEPG
ALAPTGLFLAGAKYMVIQGEPGAVIRGKKGAGGICIKKTGQAMVFGIYEEPVNPGQCNMV
VERLGDYLVDQGM

>AAX77688.1 Allergen profilin isoallergen 2 [Ambrosia artemisiifolia]
MSWQTYVDEHLMCDIDGSGHHLSSAAIFGTDGAVWAKSGSFPEFKPDEINAIIKEFDAAG
TLAPTGLFLAGAKYMVIQGEPGAVIRGKKGAGGICIKKTGQAMVFGIYEEPVAPGQCNMV
VERLGDYLVDQGM

>CAI78902.1 Allergen putative gamma-gliadin [Triticum aestivum]
MQVNPSVQVQPTQQQPYPESQQPFISQSQQQFPQPQQPFPQQPQQPFPQSQQQCLQQPQH
QFPQPTQQFPQRPLLPFTHPFLTFPDQLLPQPPHQSFPQPPQSYPQPPLQPFPQPPQQKY
PEQPQQPFPWQQPTIQLYLQQQLNPCKEFLLQQCRPVSLLSYLWSKIVQQSSCRVMQQQC
CLQLAQIPEQYKCTAIDSIVHAIFMQQGQRQGVQIVQQQPQPQQVGQCVLVQGQGVVQPQ
QLAQMEAIRTLVLQSVPSMCNFNVPPNCSTIKAPFVGVVTGVGGQ

>AAX85388.1 Putative Amb a 1-like protein [Artemisia vulgaris]
MEKHYFVILFTAAFVFVGAAARADIGDELEAAQFNSTRRGLHECAAHNIIDKCWRCKADW
EKNRQALAKCAQGFAKGTTGGLGGEIYVVTDCSDDNAANPKPGTLRCGVTQDKPLWIIFK
KDMVIKLKHELVINKDKTIDGRGANVEITCGGLTIHNVCNVIIHNIHIHDIKVTEGGIIK
ATDAKPGHRHKSDGDGICVAGSSKIWIDHCTLSHGPDGLIDVTLGSTAVTISNCKFSHHQ
KILLLGADNSHVDDKKMHVTVAFNRFAEACDQRMPRCRFGFFQVVNNDYTSWGTYAIGGS
ANPTILSQGNRFHAPNDPMKKNVLVRADAPHTESMKWNWRSEKDLLENGAIFVASGCDPH
LTPEQKSHLIPAEPGSAVLQLTSCAGTLKCVPGKPC

>AAX85389.1 Allergen polcalcin [Artemisia vulgaris]
MADEDKAECDRIFGAFDKNGDGKISAAELGESLTKLGSVSPEEVQTMMDELDTDGDGYIS
YDEFAEFFNANRGLMKDVGKIF

>CAI79052.1 Putative putative LMW-glutenin subunit [Triticum aestivum]

MSHIPGLERPSQQQPLRPQQTLSHHHHQQPIQQQPQQFPQQQPCSQQQQQPPLSQQQQPP
FSQQQQPPFSQQQQPVLPQQPSFSQQQLPPFSQQQQPPFSQQQQPVLPQQPSFSQQQLPP
FSQQLPPFSQQQQPVLLQQQIPFVHPSILQQLNPCKVFLQQQCSPVAMPQSLARSQMLQQ
SSCHVMQQQCCQQLPQIPQQSRYEAIRAIVYSIILQEQQQVQGSIQTQQQQPQQLGQCVS
QPQQQSQQQLGQCSFQQPQQLQQLGQQPQQQQIPQGIFLQPHQISQLEVMTSIALRTLPT
MCGVNVPLYSSTTIMPFSIGTGVGGY

>1YG9_A Allergen Chain A, The Structure Of Mutant (N93q) Of Bla G 2
[Blattella germanica]
GASIVPLYKLVHVFINTQYAGITKIGNQNFLTVFDSTSCNVVVASQECVGGACVCPNLQK
YEKLKPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELSQEVCILSA
DVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHARFQDGEHFGEIIFGGSDWKYV
DGEFTYVPLVGDDSWKFRLDGVKIGDTTVAPAGTQAIIDTSKAIIVGPKAYVNPINEAIG
CVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQPXGHSD
HFFIGDFFVDHYYSEFNWENKTMGFGRSVE

>AAY21180.1 Putative major royal jelly protein 9 [Apis mellifera]
MSFNIWWLILYFSIVCQAKAHYSLRDFKANIFQVKYQWKYFDYNFGSDEKRQAAIQSGEY
NYKNNVPIDVDRWNGKTFVTILRNDGVPSSLNVISNKIGNGGPLLEPYPNWSWAKNQNCS
GITSVYRIAIDEWDRLWVLDNGISGETSVCPSQIVVFDLKNSKLLKQVKIPHDIAINSTT
GKRNVVTPIVQSFDYNNTWVYIADVEGYALIIYNNADDSFQRLTSSTFVYDPRYTKYTIN
DESFSLQDGILGMALSHKTQNLYYSAMSSHNLNYVNTKQFTQGKFQANDIQYQGASDILW
TQASAKAISETGALFFGLVSDTALGCWNENRPLKRRNIEIVAKNNDTLQFISGIKIIKQI
SSNIYERQNNEYIWIVSNKYQKIANGDLNFNEVNFRILNAPVNQLIRYTRCENPKTNFFS
IFL

>CAI64396.1 Putative serine carboxypeptidase II [Triticum aestivum]
GNGLIDDYHDYVGTFEFWWNHGLVSDDTYQRLREACLHDSFIHPSPACDAATDVATAEQG
NIDMYSLYTPVCNITSSSSSSSSSLSQQRRSRGRYPWLTGSYDPCTERYSTAYYNRRDVQ
TALHANVTGAMNYTWSTCSDTINTHWHDAPRSMLPIYRELIAAGLRIWVFSGDTDAVVPL
TATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRPRQALVL
FQYFLQGKPMPGQATNATVA

>CAI64397.1 Putative putative leucine-rich repeat protein [Triticum
aestivum]
KPVAANQDVDALSALRRGLQDPNGELKNWDANLVDACTWSHITCDRDNNRVTRIDLNKMN
LSGPLAPELGKLDRLQYLEIDHNRLTGPIPRELAGLSNLKHADFSNNNLCGPIPTTGAFQ
RIPRSSFANNPRLGRKC

>CAI64398.1 Putative 5a2 protein [Triticum aestivum]
IAVAVSADECEGDRRAMIKECAKYQQWPANPKLDPSDACCAVWQKANIPCLCAGVTKEKE
KIYCMEKVAYVANFCKKPFPHGYKCGSYTFPPLA

>CAI64400.1 Putative thioredoxin h1 protein [Zea mays]
MAASEAAAAAATPVAPTEGTVIAIHSLEEWSIQIEEANSAKKLVVIDFTATWCPPCRAMA
PIFADMAKKSPNVVFLKVDVDEMKTIAEQFSVEAMPTFLFMREGDVKDRVVGAAKEELAR
KLELHMAS

>EAL89830.1 Putative major allergen Asp F2 [Aspergillus fumigatus Af293]
MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGSGATTTPTDSPSATIDVPPVRT
VRIS

>AAY83341.1 Allergen non-specific lipid transfer protein precursor
[Fragaria x ananassa]

MASSTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKSGGAVPAACCNGIRSL
NSAAKTTADRQATCNCLKQASGAIKGLNPSLAAGLPGKCGVSVPYKISTSTNCAAVK

>AAY83342.1 Allergen non-specific lipid transfer protein precursor
[Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPCVTYVKSGGAVPAPCCSGIRNL
NGMAKTTADRQATCNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>AAY83345.1 Allergen non-specific lipid transfer protein precursor
[Fragaria x ananassa]
MAISTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKSGGAVPAACCNGIRSL
NSAAKTTADRQTTCNCLKQASGAIKGLNPNLAAGLPGKCGVNVPYKISTSTNCAAVK

>AAY84563.1 Putative group 18 allergen protein [Dermatophagoides
pteronyssinus]
MTRLSFTVLIFLAAYFGSNIRPNVATLDPKTVCYYESWVHWRQGDGKMDPEDIDTSLCSH
IVYSYFGIDASSHEIKLLDQYLMITLHDMEHFTKHKGNAKAMIAVGGASMSDQFSKTAAV
EHYRETFVVSTIDLMTKYGFDGVMIDWSGMQAKDSDNFVKLLDKFDEKFAQTSFVMGVTL
PATIASYDNYNIPAISNYVDFMNVLTLDYDGPWAYTVGHASALPEQLKTLEAYNKRGAPR
HKMVMAVPFFARTWILEKMDKQDVGDKASGPGPKGQFTQTPGFLSYNELCVQIQAETNAF
SITRDHDNTAIYAVYVHDNHAEWISFEDRHTLGDKARNITEQGYGGMSVYTLSNEDVHGV
CGDKNPLLHAINSNYFRGIVTEPTVVTVTPVTHTTEHVTDIPGVFHCHQEGFFRDKTYCA
KYYECKKGDFGLEQTVHHCPNHSQAFDEVSRTCVDHAKIPGC

>AAY84565.1 Putative group 15 allergen protein short isoform
[Dermatophagoides pteronyssinus]
MKTSCAILILMACFGLMNAAVKRDHNNYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFAKIDEYKYTIQVFDPYQDDNHNTWEKHGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSDMVANPTYRKQFVQSVLDFLQEYKFDGLDLDWEYPGSRLGNPKIDKQNYLTLV
RELKEAFEPFGYLLTAAVSPGKDKIDVAYELKELNQLFDWMNVMTYDYHGGWENVFGHNA
PLYKRPDETDELHTYFNVNYTMHYYLNNGATRDKLVMGVPFYGRAWSIEDRSKVKLGDPA
KGMSPPGFITGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYDDLASISC
KLAFLKELGVSGVMIWSLENDDFKGHCGPKYPLLNKVHNMINGDEKNSYECLLGPSTTTP
TPTTPSTPSTTTPTPTTPSTPSTTTPTPTTPSTPSTTTPTPTTTDSTSETPKYTTYVDGH
LIKCYKEGDLPHPTNIHKYLVCEYVNGGWWVHIMPCPPGTIWCQEKLTCITE

>P83958.1 Allergen Thaumatin-like protein (Allergen Act c 2) [Actinidia
chinensis]
ATFNFINNCPFTVWAAAVPG

>AAY88919.1 Putative Ole e 11.01 allergen precursor [Olea europaea]
MSCIAVEAVLLGILLYIPIVLSDDRAPIPANSAQLNSWFDGIIQPVAVRKATMDPALVTA
EGQAKVIKLKSDGSGDFKSINEAIKSIPDDNTKRVILSFSPGNYSEKVKIGMYKHYITFY
GEDPNNMPILVFGGTAAEYGTVDSATLIVESNYFSAVNLKIVNSAPRPDGKRVGAQAAAL
RISGDKASFYNVKIYGFQDTLCDDKGKHFYKDCYIEGTVDFIFGSGKSIFLNTELHAVPG
DQPAIITAQARKTESEDTGYYFVNCRVTGGGAFLGRSWMPAAKVVFAYTEMGDAIHPEGW
ILVKPEHESTVRFPEYNNKGPGANMEKRAKFVKRLSDAEAKQSISLGSIEASKWLLPPRV
VGLP

>AAZ20276.1 Putative oleosin 1 [Arachis hypogaea]
MAEALYYGGRQRQEQPRSTQLVKATTAVVAGGSLLILAGLVLAGTVIGLTTITPLFVIFS
PVLVPAVITVALLGLGFLASGGFGVAAITVLTWIYRYVTGKHPPGANQLDTARHKLMGKA
REIKDFGQQQTSGAQAS

>CAI38795.2 Allergen thaumatin-like protein [Actinidia deliciosa]
MSTFKSLSLSALLFIAFLFTCARGATFNIINNCPFTVWAAAVPGGGKRLDRGQNWIINPG
AGTKGARVWPRTGCNFDGAGRGKCQTGDCNGLLQCQAFGQPPNTLAEYALNQFNNLDFFD
ISLVDGFNVAMEFSPTSGGCTRGIKCTADINGQCPNELRAPGGCNNPCTVFKTDQYCCNS

GNCGLTNFSKFFKDRCPDAYSYPKDDQTSTFTCPAGTNYKVVFCP

>AAZ23584.1 Allergen HMW glutenin x-type subunit Bx7 precursor [Triticum aestivum]
MAKRLVLFAAVVVALVALTAAEGEASGQLQCEHELEACQQVVDQQLRDVSPGCRPITVSP
GTRQYEQQPVVPSKAGSFYPSETTPSQQLQQMIFWGIPALLRRYYPSVTSSQQGSYYPGQ
ASPQQSGQGQQPGQEQQPGQGQQDQQPGQRQQGYYPTSPQQPGQGQQLGQGQPGYYPTSQ
QPGQKQQAGQGQQSGQGQQGYYPTSPQQSGQGQQPGQGQPGYYPTSPQQSGQWQQPGQGQ
QPGQGQQSGQGQQGQQPGQGQRPGQGQQGYYPISPQQPGQGQQSGQGQPGYYPTSLRQPG
QWQQPGQGQQPGQGQQGQQPGQGQQSGQGQQGYYPTSLQQPGQGQQLGQGQPGYYPTSQQ
SEQGQQPGQGKQPGQGQQGYYPTSPQQSGQGQQLGQGQPGYYPTSPQQSGQGQQSGQGQQ
GYYPTSPQQSGQGQQPGQGQSGYFPTSRQQSGQGQQPGQGQQSGQGQQGQQPGQGQQAYY
PTSSQQSRQRQQAGQWQRPGQGQPGYYPTSPQQPGQEQQSGQAQQSGQWQLVYYPTSPQQ
PGQLQQPAQGQQPAQGQQSAQEQQPGQAQQSGQWQLVYYPTSPQQPGQLQQPAQGQQGYY
PTSPQQSGQGQQGYYPTSPQQSGQGQQGYYPTSPQQSGQGQQPGQGQQPRQGQQGYYPIS
PQQSGQGQQPGQGQQGYYPTSPQQSGQGQQPGHEQQPGQWLQPGQGQQGYYPTSSQQSGQ
GHQSGQGQQGYYPTSLWQPGQGQQPGQGQQGYASPYHVSAEYQAARLKVAKAQQLAAQLP
AMCRLEGSDALSTRQ

>CAJ19705.1 Allergen non-specific lipid transfer protein [Solanum lycopersicum (Lycopersicon esculentum)]
MEMVNKIACFVLLCMVVVAPHAEALTCGQVTSTLAPCLPYLMNRGPLRNCCDGVKGLLGQ
AKTTVDRQAACTCLKSAASSFTGLNLGKAAALPNTCSVNIPYKISPSTDCSKVQ

>AAZ76743.1 Allergen Pen a 1 allergen [Farfantepenaeus aztecus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>1WKX_A Allergen Chain A, Crystal Structure Of A Hev B 6.02 Isoallergen [Hevea brasiliensis]
EQCGRQAGGKLCPDNLCCSQWGWCGSTDEYCSPDHNCQSNCKD

>P0C088.1 Allergen Nonspecific lipid-transfer protein (LTP) (Pollen allergen Art v 3) [Artemisia vulgaris]
ALTCSDVSNKISPCLSYLKQGGEVPADCCAGVKGLND

>BAE20328.1 Allergen omega-5 gliadin [Triticum aestivum]
MKTFIIFVLLAMAMNIASASRLLSPRGKELHTPQEQFPQQQQFPQPQQFPQQQIPQQHQI
PQQPQQFPQQQQFLQQQQIPQQQIPQQHQIPQQPQQFPQQQQFPQQHQSPQQQFPQQQFP
QQKLPQQEFPQQQISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQPPQQHQFPQQQLPQQQ
QIPQQQQIPQQPQQIPQQQQIPQQPQQFPQQQFPQQQFPQQQFPQQEFPQQQQFPQQQIA
RQPQQLPQQQQIPQQPQQFPQQQQFPQQQSPQQQQFPQQQFPQQQQLPQKQFPQPQQIPQ
QQQIPQQPQQFPQQQFPQQQQFPQQQEFPQQQFPQQQFHQQQLPQQQFPQQQFPQQQFPQ
QQQFPQQQQLTQQQFPRPQQSPEQQQFPQQQFPQQPPQQFPQQQFPIPYPPQQSEEPSPY
QQYPQQQPSGSDVISISGL

>AAZ91659.1 Putative polygalacturonase [Lilium longiflorum]
MASISSARLLLLSSVLLIVKLTAGLVPETKVNVKSFGAVGDGKTDSTQAILRAWDQACNG
FGKQRVIVPEGVYLTGPMAFRGPCNGFISMQVRGELRAYGDVGKYPNAKWVSYEDLNGLL
VTGGGRFNAQGSQAWTQNDCSTKKNCALLTTSVKFDHCTNATIRRINSIDSKFFHIAIDQ
CTDITVHHINITAPGTSPNTDGIHIGRSTNVNISNAIIGTGDDCISLGPGSSHITISKVQ
CGPGHGISVGSLGRYMNEENVWDVKVKNCTLTGTTNGVRIKTWKGSSPSEASQFIFQDIE
MREVQNPIIIDQEYCSYDYCANNPPAPSKVKLSDIQFMNIKGTSTSKVAINLICSSAVPC
EGIQLSDISLKYIRAGKPTMANCSHVSGTTSGLVSPPSCIKGADVSLFTTQML

>CAJ28930.1 Allergen Ves g 5 allergen precursor [Vespula germanica]
NNYCKIKCLKGGVHTACKYESLKPNCANKKVVAYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWNDELAYIAQVWANQCQYGHDTCRDVAKYPVGQNVALTGSTA
AKYDNPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTQMVWANTKEVGCGSIKYIQDKW
HKHYLVCNYGPSGNFGNEELYQTK

>CAJ28931.1 Allergen Ves g 1 allergen precursor [Vespula germanica]
GPKCPFNTDTVSMIIETRENRNRDLYTLQTLQNHPEFKEKTITRPVVFITHGFTSSASET
NFINLSKALVDKDNYMVISIDWQTAACTNEAAGLKYLYYPTAASNTRLVGQYIATITQKL
VKQYKISMANIRLIGHSLGAHVSGFAGKKVQELKLGKYSEIIGLDPAGPSFSSNKCSDRL
CETDAEYVQILHTSNHLGTERILGTVDFYMNNGKNQPGCGRFFTEVCSHSRAVIYMAECI
KHECCLIGIPKSKSSQPISSCTKQECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>Q6R4B4.1 Allergen RecName: Full=Glutathione-S-transferase; AltName:
Allergen=Alt a 13 [Alternaria alternata]
MSDKPSELAVQKLVLFAVKGTATSTHNTVRPLILLDELGVPHEIYVVDRVSAPWFTEINP
HRMVPVILEKSPDGRDTLRAWESTSTLMYIADAYDKDGTFGGRNVQESSDINNWLTLHTA
ALGPTAKYWLYFYKLHPEKLPKTIEKLRSNITVQYDILERRLNEPGQQYLAWLNEKFKRS
SYNRRHCYASLCYEKYRRVVRAGVKVAQTARVVCPYGGDTRRGVWPARKST

>Q875I9.1 Putative RecName: Full=Endo-chitosanase; Flags: Precursor
[Aspergillus fumigatus]
MRLSEILTVALVTGATAYNLPNNLKQIYDKHKGKCSKVLAKGFTNGDASQGKSFSYCGDI
PGAIFISSSKGYTNMDIDCDGANNSAGKCANDPSGQGETAFKSDVKKFGISDLDANIHPY
VVFGNEDHSPKFKPQSHGMQPLSVMAVVCNGQLHYGIWGDTNGGVSTGEASISLADLCFP
NEHLDGNHGHDPNDVLFIGFTSKDAVPGATAKWKAKNAKEFEDSIKSIGDKLVAGLKA

>Q8J077.1 Allergen RecName: Full=Subtilisin-like protease 6; AltName:
Allergen=Tri m 2; Flags: Precursor [Trichophyton schoenleinii]
FITKAIPIVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTTWLSQNLN
RRLMRRSGSSKAMAGMQNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNLTRQENVPSWGLARVGSKQAGGTTYYYDSSAGKGVTAYVIDTGIDIEHEDFGGRAK
WGKNFVDQRDEDCNGHGTHVAGTVGGTKYGLAKSVSLVAVKVLDCDGSGSNSGVIRGMEW
AMREASGGGNGTAKAAGKSVMNMSLGGPRSQASNDAARAISEAGIFMAVAAGNENMDAQH
SSPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMASP
HVCGLGAYLIGLGKQGGPGLCDTIKQMANEAIQRPGEGTTGKLIY

>Q9UVU3 Putative Allergen Asp fl 1 [Aspergillus flavus]
MQSIKRTLLLLGAILPAVLGAPVQETRRAAEKLPGKYIVTFKPGIDEAKIQEHTTWATNI
HQRSLERRGATGGDLPVGIERNYKINKFAAYAGSFDDATIEEIRKNEDVAYVEEDQIYYL
DGLTTQKSAPWGLGSISHKGQQSTDYIYDTSAGEGTYAYVVDSGVNVDHEEFEGRASKAY
NAAGGQHVDSIGHGTHVSGTIAGKTYGIAKKASILSVKVFQGESSSTSVILDGFNWAAND
IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQGVLSVVAAGNENSDAGQTSPASAPDA
ITVAAIQKSNNRASFSNFGKVVDVFAPGQDILSAWIGSSSATNTISGTSMATPHIVGLSL
YLAALENLDGPAAVTKRIEELATKDVVKDVKGSPNLLAYNGNA

>Q4WB37.1 Putative RecName: Full=Endo-chitosanase; Flags: Precursor
[Aspergillus fumigatus Af293]
MHFLATAAVLAGVGLASAYTVPANLQQIYNKHKTGTCQNKLQDGFSDGISGSRSFAYCGD
IEGAIFLHSSANGGQYVNMDIDCDGANNSAGDCANDPSGQSMTAFMDTVKQYGISDLDAN
IHPYVVFGNSGSSPTFDPQQYGMEPLSVMAVVCNNQLFYGIWGDTNGGTSTGEASISLAK
LCFPNDGITGDNGHGEEDVLYIGFMGQDAVPGASAAWTARDTKTFEESIKALGDRLVAKL
SA

>Q5BLY5.1 Putative RecName: Full=Venom acid phosphatase Acph-1; AltName:
Allergen=Api m 3; Flags: Precursor [Apis mellifera]
MSVIAILAMVVGVQAELKQINVIFRHGDRIPDEKNEMYPKDPYLYYDFYPLERGELTNSG
KMREYQLGQFLRERYGDFLGDIYTEESVSALSSFYDRTKMSLQLVLAALYPPNKLQQWNE

DLNWQPIATKYLRRYEDNIFLPEDCLLFTIELDRVLESPRGKYEFSKYDKLKKKLEEWTG
KNITTPWDYYYIYHTLVAEQSYGLTLPSWTNNIFPRGELFDATVFTYNITNSTPLLKKLY
GGPLLRIFTKHMLDVVSGTQKKKRKIYLFSGHESNIASVLHALQLYYPHVPEYSSSIIME
LHNIEGTHYVKIVYYLGIPSEARELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFV
DESANNLSIEELDFVKLNLIRIAGTENK

>Q7M4I3.1 Putative RecName: Full=Venom protease; AltName: Allergen=Bom p 4 [Bombus pennsylvanicus]
VVGGKPAKLGAWPWMVALGFHNYRQPKKSPEWKCGGSLRISRHVLTAAHCAIHRSLYVVR
IADLNLKRDDDGAHPIQMGIESKLIHPDYVYSEHHDDIAILKLEKDVSFSEYIRPICLPI
EESLRNNNFIGYNPFVAGWGRLRYKGPLSDALMEVQVPVVRNKVCKRAYSDVSDTVICAG
YPKGRKDSCQGDSGGPLMIPQESTYYEIGVVSYGHECALPKYPGVYTRVTSYLDSFILPA
LKK

>P80208.1 Putative Napin-3 (Napin BnIII) (Napin nIII) (1.7S seed storage protein) [Contains: Napin-3 small chain; Napin-3 large chain] [Brassica napus]
SAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPQGPQQRPPLLQQCCNELHQEEP
LCVCPTLKGASRAVKQQVRQQQGQQGQQLQQVISRIYQTATHLPKVCNIPQVSVCPFQKT
MPGPS

>P82952.1 Putative Seed allergenic protein 2 (Conglutin gamma) (Allergen Pru du ?) [Prunus dulcis]
TKSQTHVPIRPNKLVLKVQKDRATN

>Q647G9.1 Allergen RecName: Full=Conglutin; AltName: Allergen=Ara h 6; Flags: Precursor [Arachis hypogaea]
MAKSTILVALLALVLVAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQE
QYDSYDIRSTRSSDQQQRCCDELNEMENTQRCMCEALQQIMENQCDRLQDRQMVQQFKRE
LMNLPQQCNFRAPQRCDLDVSGGRC

>Q7M1E8 Putative Pollen major allergen Par o I [Parietaria officinalis]
ATGKVVQGAMPP

>Q7M1L8 Allergen Pollen allergen Phl p V [Phleum pratense]
DLGYAPATPAAPGAGYTPATPAAP

>Q7M1X6 Putative Group I allergen Ant o I (Form 1), pollen [Anthoxanthum odoratum]
IAKVPPGPNITATYGDKWLDAKSTWYGKPTGA

>Q7M1X7 Putative Group I allergen Agr a I (Form 2), pollen [Agrostis alba]
IAKVPPGPNITADYGDKWLDAKSTWYGKPTGAGPK

>Q7M1X9 Putative Group I allergen Agr a I (Form 1), pollen [Agrostis alba]
IAKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPK

>Q7M1Y0 Putative Group I allergen Ant o I (Form 2), pollen [Anthoxanthum odoratum]
IAKVPPGPNITADYGDKWLDAKSTWYGKPTGA

>Q7M1Y1 Putative Group I allergen FeS e I, pollen [Schedonorus arundinaceus]
IAKVPPGPNITAEYGDKWLDAKSTFYGKPTGAGPK

>Q7M262 Allergen 30K allergen [Holcus lanatus]

ADAGYTPAAPAATGAGGDAT

>Q7M263 Putative 30K allergen [Secale cereale]
ADAGYAPAAPGTQPKA

>O22108 Putative LMM glutenin 1 [Triticum aestivum]
RCIPGLERPWQQQPLPPQQTFPQQPLFSQQQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQQSPFSQQQQLILPPQQQQQLPQQQISIVQPSVLQQLNPCKV
FLQQQCSPVAMPQRLARSQMWQQSSCHVMQQQCCQQLSQIPEQSRYDAIRAITYSIILQE
QQQGFVQAQQQQPQQSGQGVSQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQVQQGTFLQP
HQIAHLEVMTSIALRTLPMMCSVNVPLYSSTTSVPFGVGTGVGAY

>O23791.1 Allergen Bromelain precursor (Allergen Ana c 2) [Ananas comosus]
MASKVQLVFLFLFLCAMWASPSAASRDEPNDPMMKRFEEWMAEYGRVYKDDDEKMRRFQI
FKNNVKHIETFNSRNENSYTLGINQFTDMTKSEFVAQYTGVSLPLNIEREPVVSFDDVNI
SAVPQSIDWRDYGAVNEVKNQNPCGSCWSFAAIATVEGIYKIKTGYLVSLSEQEVLDCAV
SYGCKGGWVNKAYDFIISNNGVTTEENYPYLAYQGTCNANSFPNSAYITGYSYVRRNDER
SMMYAVSNQPIAALIDASENFQYYNGGVFSGPCGTSLNHAITIIGYGQDSSGTKYWIVRN
SWGSSWGEGGYVRMARGVSSSSGVCGIAMAPLFPTLQSGANAEVIKMVSET

>Q94JN2.1 Putative RecName: Full=Profilin; AltName: Full=Minor food allergen Ana c 1; AltName: Allergen=Ana c 1 [Ananas comosus]
MSWQAYVDDHLMCEIDGQHLSSAAILGHDSTVWAQSPNFPQFKPEEISAILNDFENPGSL
APTGLYLGGTKYMVIQGEPGVVIRGKKGTGGITVKKTNLALIIGVYDEPMTPGQCNMVVE
RLGDYLLEQGF

>O22116 Putative LMM glutenin 3 [Triticum aestivum]
ASAVAQISQQQQPPPFSQQQQPPFSQQQQPPFSQQQQSPFSQQQQQPPFSQQQQPPFSQQ
PLISQQQQLPFSQQQQPQFSQQQQPPYSQQQQPPYSQQQQPPFSQQQQPPFSQQQQPSFS
QQQQQPPFTQQQQPPFSQQSPISQQQQQQQQQQQQPFTQQQQPPFSQQPPISQQQQPPFS
QQQQPPFSQQQQIPVIHPSVLQQLNPCMVFLQQQCIPVAMQRCLARSQMLQQSICHVMQR
QCCQQLRQIPEQSRHESIRAIIYSIILQQQQQQQQQQQQQQGQSIIQYQQQPPQQLGQCV
SQPQQQLQQQLGQQPQQQQLAHGTFLQPHKIAQLEVMTSIALRTLPRMCSVNVPLYETTT
SVPLGVGIGVGVY

>Q6W8Q2.1 Allergen RecName: Full=1-Cys peroxiredoxin PER1; AltName: Full=Rehydrin homolog; AltName: Full=Thioredoxin peroxidase [Triticum aestivum]
MPGLTIGDTVPNLELDSTHGKIRIHDYVGNGYVILFSHPGDFTPVCTTELAAMANYAKEF
EKRGVKLLGISCDDVQSHKEWTKDIEAYKPGSKVTYPIMADPDRSAIKQLNMVDPDEKDA
EGQLPSRTLHIVGPDKKVKLSFLYPSCTGRNMDEVVRAVDSLLTAAKHKVATPANWNPGE
CVVIAPGVSDDEAKKMFPQGFETADLPSKKGYLRFTKV

>ABA39435.1 Allergen Der p 1 allergen precursor, partial [Dermatophagoides pteronyssinus]
RPSSIKPFEEYKKAFNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQ
RDNGYQPNYHAVNIVGYSNAQGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>ABA39436.1 Allergen Der f 1 allergen precursor [Dermatophagoides farinae]
RPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEANKGAINHLSDLSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRTVTPIRMQGGCGSCWAFSG
VAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYVAR

EQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVIIGIKDLRAFQHYDGRTII
QRDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTT

>ABA39437.1 Allergen Der p 2 allergen precursor [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIRD

>ABA39438.1 Allergen Der f 2 allergen precursor [Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGRHGSDPCIIHRGKPFTLEALFDANQNTKTAKIEIKANING
LEVDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLIGDNGVLACA
IATHAKIRD

>ABA42918.1 Putative putative alpha/beta hydrolase superfamily protein [Davidiella tassiana]
MPAGLQYVTTDGGRLAVEITGKETDPLVICSPGMGDTRDAYKPLAKVLVSNGYRVAAMDA
RAHGESSAKFARYGDEATADDFLTVANELSPGSPVVLAGASFSAAAATIAAAKQPERVSK
IILLGPFLRNGMGVVGLWLMPVMFAWPWGPAAWEMYAATLWPGLEGDGAKKRAATTRASL
TRPGRWAGFQALISSLDHRVVAPYISSVRAPALVVMGDKDPDWSDPKVEAEWVASNFSQV
DTLMVPEAGHAPMYERPQVVAERVLSFLGDQTNV

>CAA55071.2 Putative aldehyde dehydrogenase (NAD+) [Alternaria alternata]
MTSVKLSTPQTGEFEQPTGLFINNEFVKAVDGKTFDVINPSTEEVICSVQEATEKDVDIA
VAAARKAFNGPWRKETPENRGKLLNKLADLFEKNADLIAAVEALDNGKAFSMAKNVDVPA
AAGCLRYYGGWADKIEGKVVDTAPDSFNYIRKEPIGVCGQIIPWNFPILMWSWKIGPAIA
TGNTVVLKTAEQTPLSAYIACKLIQEAGFPPGVINVITGFGKIAGAAMSAHMDIDKIAFT
GSTVVGRQIMKSAAGSNLKKVTLELGGKSPNIVFADADLDEAIHWVNFGIYFNHGQACCA
GSRIYVQEEIYDKFIQRFKERAAQNAVGDPFAADTFQGPQVSQLQFDRIMGYIEEGKKSG
ATIETGGNRKGDKGYFIEPTIFSNVTEDMKIQQEEIFGPVCTISKFKTKADVIKIGNNTT
YGLAAAVHTSNLTTAIEVANALRAGTVWVNSYNTLHWQLPFGGYKESGIGRELGEAALDN
YIQTKTVSIRLGDVLFG

>CAA55072.2 Putative aldehyde dehydrogenase (NAD+) [Davidiella tassiana]
MTSVQLETPHSGKYEQPTGLFINNEFVKGQEGKTFDVINPSDESVITQVHEATEKDVDIA
VAAARKAFEGSWRQETPENRGKLLNNLANLFEKNIDLLAAVESLDNGKAISMAKGDISMC
VGCLRYYGGWADKITGKVIDTTPDTFNYVKKEPIGVCGQIIPWNFPLLMWAWKIGPAIAC
GNTVVLKTAEQTPLGGLVAASLVKEAGFPPGVINVISGFGKVAGAALSSHMDVDKVAFTG
STVVGRTILKAAASSNLKKVTLELGGKSPNIVFEDADIDNAISWVNFGIFFNHGQCCCAG
SRVYVQESIYDKFVQKFKERAQKNVVGDPFAADTFQGPQVSKVQFDRIMEYIQAGKDAGA
TVETGGKRKGDKGYFIEPTIFSNVTEDMKIVKEEIFGPVCSIAKFKTKEDAIKLGNASTY
GLAAAVHTKNLNTAIEVSNALKAGTVWVNTYNTLHHQMPFGGYKESGIGRELGEDALANY
TQTKTVSIRLGDALFG

>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]
TMEHYLKTYLSWLTEEQKEKLKEMKEAGKTKAEIQHEVMHYYDQLHGEEKQQATEKLKVG
CKMLLKGIIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKKI
FGATTLQHHRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKELEAKILHYYDE
LEGDAKKEATEHLKGGCGEILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDE
EKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAK
KELEAKILHYYDELEGDAKKEATEHLKGGCAEILKHVVGEEKAAELKNLKDSGASKEELK
AKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQK

DELLKMKKDGKTKKDLQAKILHYYDELEGDAKKEATEHLKDGCREILKHVVGEEKEAELK
KLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPACKKIFGAAHTSRRRRHHFTLES
SLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREI
LKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVH
TSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKK
EATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIA
DFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKI
LHYYDELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEAL
HAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQEQKDELLKMK
KDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGA
SKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKW
LSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREILKHVVGEE
KAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHH
FTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEHLKG
GCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKK
IYGVHTSRRRRYHAEDGTDDIDGLAQSRQRRSGFFEKLIDVFAFF

>ABA81885.1 Putative profilin-like [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGVMNDFAEPGTL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGITIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>BAE46763.1 Putative dark muscle parvalbumin [Trachurus japonicus]
MAFKGVLNDADVTAALDGCKSAFDHKAFFKACGLAAKSADDIKKAFAIIDQDKSGFIEED
ELKLFLQNFCAGARALSDAETKAFLKAGDSDGDGKIGVDEFAAMVKH

>ABB16985.1 Putative profilin-like protein [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIVGQDGTVWAQSANFPQFKPEEISGIMNDFAEPGTL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGITIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>CAI43283.4 Putative mala s 12 allergen precursor [Malassezia sympodialis]
MKGIVSWAVVSAALVLSATESLAFANVSSFEKRTTTGNGWDLDGKSYDYVIVGGGTAGLV
LANRLSANQGTTVAVIEAGNSGYDDNDKFVVPDANLYNSAVNTQYDWQFHTSSQKHMNNR
RASWPRGKVLGGSSAVNGLYYVRPSETEVNVWSKLAGGSGRWSWNSLLSGMKKSEHFRGP
VKSVQNQLQIQYNAGSHGSNGPIGTTWPAVTYDPVERFIKTADSMSGAINNDPYNGNNHG
TYVALSSIDKTNWQRSFSRNGYLDPISKRSNLHVLTGHTVTGIIFDRSGKNAQATGVHYA
ASSNEASHTVHANKEVIISGGAINSPQILQLSGIGDKNLLNGLGIDVVVDLPGVGENLQD
HVSAGMSFKPKNKKDAGPTSVTGDAKADSYVNSAVSYTSLGKLFNNKDSILGKIQARAKQ
IADSHNVSPAVKQGQSKAYNALADTIFPSKVSPVEILGNVMFGSISIQAALQHPLSRGSI
KITSKDPFAYPKINPNYFAENLDLVLLREGFKLIREMSQQSPLKDVIDFETVPGDKVQTN
EDWENWIRSAAGTEYHPSSTCAMLPRGDGGVVDENLKVYGTSNLRVVDASVTPIAMSCHL
ESVVYGLAEVAADIILGN

>AAY84564.2 Putative group 15 allergen protein [Dermatophagoides pteronyssinus]
MKTSCAILILMACFGLMNAAVKRDHNNYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFAKIDEYKYTIQVFDPYQDDNHNTWEKHGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSDMVANPTYRQQFVQSVLDFLQEYKFDGLDLDWEYPGSRLGNPKIDKQNYLTLV
RELKEAFEPFGYLLTAAVSPGKDKIDVAYELKELNQLFDWMNVMTYDYHGGWENVFGHNA
PLYKRPDETDELHTYFNVNYTMHYYLNNGATRDKLVMGVPFYGRAWSIEDRSKVKLGDPA
KGMSPPGFITGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYDDLASISC
KLAFLKELGVSGVMIWSLENDDFKGHCGPKYPLLNKVHNMINGDEKNSYECLLGPSTTTP
TPTTPSTPSTTTPTPTTPSTPSTTTPTPTTPSTPSTTTPTPTTPSTPSTTTPTPTTPSTT
STTTPTPTTTDSTSETPKYTTYVDGHLIKCYKEGDLPHPTNIHKYLVCEYVNGGWWVHIM
PCPPGTIWCQEKLTCITE

>ABB52642.1 Allergen tropomyosin [Dermatophagoides pteronyssinus]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMEGLENQSKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSISDELDQTFAEL

>Q63213 Putative Alpha-2u globulin [Rattus norvegicus]
MKLLLLLLCLGLTLVCGHAEEASFERGNLDVDKLNGDWFSIVVASDKREKIEENGSMRVF
VQHIDVLENSLGFTFRIKENGVCTEFSLVADKTAKDGEYFVEYDGENTFTILKTDYDNYV
MFHLVNVNNGETFQLMELYGRTKDLSSDIKEKFAKLCVAHGITRDNIIDLTKTDRCLQAR
G

>ABB78006.1 Allergen major allergen Pru p 1 [Prunus persica]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENHSYSYTLIEGDALGDNLEKISYETKLVASPSGGSIIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>ABB88514.1 Putative arginine kinase [Bombyx mori]
MVDAATLEKLEAGFSKLQGSDSKSLLKKYLTREVFDSLKNKKTSFGSTLLDCIQSGVENL
DSGVGIYAPDAESYSVFAELFDPIIEDYHNGFKKTDKHPPKNWGDVDTLGNLDPAGEFVV
STRVRCGRSLEGYPFNPCLTESQYKEMEDKVSGTLSSLEGELKGTFYPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPTGRGIYHNENKTFLVWCNEEDHLRIISMQMGGDLQQ
VYKRLVSAVNEIEKKIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAADKKKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMYDGIAELIKIEKSL

>ABB89296.1 Putative allergen Bla g 6.0101 [Blattella germanica]
MDELPPEQIQLLKKAFDAFDREKKGCISTEMVGTILEMLGHRLDDDMLQEIIAEVDADGS
GELEFEEFVSLASRFLVEEDAEAMQQELREAFRLYDKEGNGYITTNVLREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>ABB89297.1 Putative allergen Bla g 6.0201 [Blattella germanica]
MDEIPAEQVVLLKKAFDAFDREKKGCISTEMVGTILEMLGTRLDQDMLDEIIAEVDADGS
GELEFEEFCTLASRFLVEEDAEAMQHELREAFRLYDKEGNGYITTAVLREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>ABB89298.1 Putative allergen Bla g 6.0301 [Blattella germanica]
MADEQLQLPPEQISVLRKAFDAFDREKSGSISTNMVEEILRLMGQPFNRRTLEELIDEVD
ADKSGRLEFDEFVTLAAKFIIEEDSEAMEKELREAFRLYDKEGNGYIPTSCLREILRELD
EQLTSDELDMMIEEIDADGSGTVDFDEFMEMMTG

>ABB89950.1 Putative catalase [Penicillium citrinum]
MHLLAFATDLVGIANAACPYMTGEVPGDYSPHELHRRADEGAADNTEEFLSQFYLNDKDA
YLTSDVGGPIEDQNSLSAGERGPTLLEDFIFRQKIQHFDHERVPERAVHARGAGAHGVFT
SYADWSNITAASFLSKKDKETPMFVRFSTVAGSRGSADTARDVHGFATRFYTDEGNFDIV
GNNIPVFFIQDAIQFPDLIHAVKPSGDNEIPQAATAHDSAWDFFSQQPSSLHTLLWAMAG
HGIPRSFRNVDGFGVHTFRFVTDSGKSKLVKFHWKGLQGKASLVWEEAQQISGKNPDFLR
QDLWDAIEAGRFPEWELGVQIMDEEDQLRFGFDLLDPTKIVPEEIIPVTKLGKMTLNRNP
RNYFAETEQVMFQPGHIVRGVDFTDDPLLQGRLFSYLDTQLNRHGGPNFEQLPINRPRTP
IHNNNRDGAGQMFIPLNKDAYSPNTLNNASPKQANQTTGKGFFTTPSRKGNGKLQRTVSS
TFEDVWSQPRLFWNSLVEAEKQFVVDATRFENSNVVSDIVRNNVIIQLNRISNDLAKRVA
EAIGIEAPKPDPSFYHDNTTAHIGAFGQKLLKLEGLKVGVLASVQNASSVSSAASLQSQL
KDAGVDVVVVAERLGDGVNQTYSGSDAIQFDAVVVADGAEGLFSSRSFTEKPVKNKASSL
FPAGRPLDILVDAFRFGKPVGAIGKGAAALRAAQISSDREGVYAAKSIGNEFVKGLKEGL
RIFKFLDRFALDA

>Q96X30.3 Putative Enolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Allergen Asp f 22) [Aspergillus fumigatus]

MPISKIHARSVYDSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAHELRDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKLDGTANKSNLGANAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVPFQNVLNGGSHAGGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYGQSAGNVGDEGGVAPDIQTAEEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAIELKSCNALLLKVNQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPCRSERLAKLNQILRIEEE
LGENAVYAGSKFRTAVNL

>P79017.2 Putative Major allergen Asp f 2 precursor (Asp f II)
[Aspergillus fumigatus]
MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGSGATTTPTDSPSATIDVPSNCH
THEGGQLHCT

>O60024.2 Allergen Allergen Asp f 4 precursor [Aspergillus fumigatus]
MQLKNSMLLLTALAAGSSVARLHGHERRHLHHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNAVAAAAAASTPEPSSSHSDSSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFYKGNVGKPWGSNIIEVSPENAKKYKHVAQFVGSDTDPWTVVFWNKIG
PDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAWGAAKGDELPKDQFGGYSCTWGEFD
FDSKINQGWSGWDVSAIQAENAHHEVQGMKICNHAGELCSIISHGLSKVIDAYTADLAGV
DGIGGKVVPGPTRLVVNLDYKE

>O42799.2 Putative Allergen Asp f 7 precursor [Aspergillus fumigatus]
MAPIFKSLALVSALFAAISSAAPVNLDKREVDVVWTTVTTVVWTTIDVTTTIYPTPQAPT
PPVVESTPTPTPSAAPEQAEPIETSTQPETTKSQPTQPSVATFIPVAAAAAAADSAAPIP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSGSTEKAASSGYSGPCSKGSPCVGQLTYYD
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK
PTDLDASRHLFGELADFSAGRIDGMSWYFN

>Q8NKF4.2 Putative 60S ribosomal protein L3 (Allergen Asp f 23)
[Aspergillus fumigatus]
MSHRKYEAPRHGSLAFLPRKRAARHRGKVKSFPKDDPKKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWYKSKKKAFTKYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPLKQKKAHLM
EIQVNGGSVADKVDFARNLFEKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTKKLP
RKTHKGLRKVACIGAWHPSHVQWTVARAGQMGYHHRTSCNHKVFRIGKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKNDYIMVKGSVPGVKKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPEEKRAFMGTLKKDLVTSA

>Q9UUZ6.2 Allergen 60S acidic ribosomal protein P2 (Allergen Asp f 8)
(AfP2) [Aspergillus fumigatus]
MKHLAAYLLLALAGNTSPSSEDVKAVLSSVGIDADEERLNKLIAELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGGAAAPAAEEKKEEEKEESDEDMGFGLFD

>Q92450.3 Allergen Superoxide dismutase [Mn], mitochondrial precursor
(Allergen Asp f 6) [Aspergillus fumigatus]
MSQQYTLPPLPYPYDALQPYISQQIMELHHKKHHQTYVNGLNAALEAQKKAAEANDVPKL
VSVQQAIKFNGGGHINHSLFWKNLAPEKSGGGKIDQAPVLKAAIEQRWGSFDKFKDAFNT
TLLGIQGSGWGWLVTDGPKGKLDITTTHDQDPVTGAAPVFGVDMWEHAYYLQYLNDKASY
AKGIWNVINWAEAENRYIAGDKGGHPFMKL

>CAJ43561.1 Allergen staphylococcal enterotoxin B precursor (SEB)
[Staphylococcus aureus]
IFVLILVISTPNVLAESQPDPKPDELHKASKFTGLMENMKVLYDDNHVSAINVKSIDQFL

YFDLIYSIKDTKLGNYDNVRVEFKNKDLADKYKDKYVDVFGANYYYQCYFSKKTNDINSH
QTDKRKTCMYGGVTEHNGNQLDKYRSITVRVFEDGKNLLSFDVQTNKKKVTAQELDYLTR
HYLVKNKKLYEFNNSPYETGYIKFIENENSFWYDMMPAPGDKFDQSKYLMMYNDNKMVDS
KDVKIEVYLTTKKK

>ABC02750.1 Putative profilin [Litchi chinensis]
MSWQAYVDDHLMCETDGQHLTAAAIIGHDGSVWAQSANFPQFKPVEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEPGAVIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLVDQGL

>ABC18306.1 Putative 16 kDa allergen [Fagopyrum esculentum]
MKLFIILATATLLIAATQATYPRDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDI
LDDKYAEALSRVEGEGCKSEESCMRGCCVAMKEMDDECVCEWMKMMVENQKGRIGERLIK
EGVRDLKELPSKCGLSELECGSRGNRYFV

>BAE54429.1 Putative tropomyosin [Sepia esculenta]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYSNLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRIQLLEEDLERSEERLTSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKSISDELDQTFAELAGY

>BAE54430.1 Putative tropomyosin [Sepioteuthis lessoniana]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKIEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKTISDELDQTFAELAGY

>BAE54431.1 Putative tropomyosin [Todarodes pacificus]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEAAKNTIEEDLSTLQKKYSNLENDFDNA
KENLTVANTNLEASEKRVNECESEIQGLNRRIQLLEEDLERSEERLTSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKSISDELDQTFAELAGY

>BAE54432.1 Putative tropomyosin [Ommastrephes bartramii]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKTISDELDQTFAELAGY

>BAE54433.1 Putative tropomyosin [Octopus vulgaris]
MDAIKKKMLAMKMERELATDKAEQTDQKLRDTEDNKNKLEEDLTTLQKKFSNLENDFDNA
KEQLAEANQKLETSEKRVGECESEIAGLNRRIQLLEEDLERSEERLSTAQTKLDEASKAA
DESERGRKVLENRSQGDEERIDLLEKQLEEAKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKAISDELDQTFAELAGY

>2AS8_B Allergen Chain B, Crystal Structure Of Mature And Fully Active
Der P 1 Allergen [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRQQSLDLAEQ
ELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIY
PPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNA
QGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>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]
IGVCYGMLGNNLPPPSEVVSLYKSNNIARMRLYDPNQAALQALRNSNIQVLLDVPRSDVQ
SLASNPSAAGDWIRRNVVAYWPSVSFRYIAVGNELIPGSDLAQYILPAMRNIYNALSSAG
LQNQIKVSTAVDTGVLGTSYPPSAGAFSSAAQAYLSPIVQFLASNGAPLLVNVYPYFSYT
GNPGQISLPYALFTASGVVVQDGRFSYQNLFDAIVDAVFAALERVGGANVAVVVSESGWP
SAGGGAEASTSNAQTYNQNLIRHVGGGTPRRPGKEIEAYIFEMFNENQKAGGIEQNFGLF
YPNKQPVYQISF

>Q948T6.2 Putative Lactoylglutathione lyase (Methylglyoxalase) (Aldoketomutase) (Glyoxalase I) (Glx I) (Ketone-aldehyde mutase) (S-D-lactoylglutathione methylglyoxal lyase) (Allergen Ory s ?) (Allergen Glb33) (PP33) [Oryza sativa]
MASGSEAEKSPEVVLEWPKKDKKRLLHAVYRVGDLDRTIKCYTECFGMKLLRKRDVPEEK
YTNAFLGFGPEDTNFALELTYNYGVDKYDIGAGFGHFAIATEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFELIQRGPTPEPLCQVMLRVGDLDRSIKFYEKALGMK
LLRKKDVPDYKYTIAMLGYADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNTKIASFLDPDGWKVVLVDNADFLKELQ

>ABC68516.1 Putative alpha-amylase [Blattella germanica]
MKLFPLVALLVLVVGVLSQKDPHVWDGRSAIVHLFEWKFADIADECERFLGPKGFAGVQV
SPVHENVIISSPFRPWWERYQLVSYKLVSRSGDENAFRDMVRRCNNVGIRIYVDVVLNQM
SGSWPDAHGQGGSTADTYNLQYPAVPYGPGDFHSTCTVSNYQDPSNVRNCELVGLHDLNQ
GSDYVRGKMIEYLNHLVDCGVAGFRVDAAKHMWPADLQYIYSKVNNLNTDHGFPSGARPF
FYQEVIDLGGEAIHSTEYTGFGRVTEFKYSRDIGDAFRGNNAIKWLVNFGVGWGYIPDGD
ALVFVDNHDNQRGHGAGGASILTYKTSKLYKMAVAFMLAYPYGYPRVMSSFSFDNSDQGP
PQDGNGNIISPSINADGTCGNGWVCEHRWRQIFNMVGFRNAVAGTAVSNWWDNGDKQISF
CRGNKGFVAFNDEFNNDLKQTLQTCLPAGDYCDVISGSYENGSCTGKTVTVGSDGKAYIE
ILSSADDGVLAIHVNSKVGSKSQTTTTQSSHCTCS

>P46075.3 Putative RecName: Full=Extracellular elastinolytic metalloproteinase; Flags: Precursor [Aspergillus fumigatus]
MRGLLLAGALALPASVFAHPAHQSYGLNRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPQSYVEVATQHVKMIAPDATFRVVDDHYVGDNGVAHVHFRQTANGLDIDNADFNVNV
GKDGKVFSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEK
ESYVFKGVSGTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSN
PSGGSSYLNNYRPSSSSLSFKYPYSVSSSPPSSYIDASIIQLFYTANIYHDLLYTLGFTE
KAGNFEYNTNGQGGLGNDYVILNAQDGSGTNNANFATPPDGQPGRMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALESGGMGEGWSDFMATAIRLKPGDKRSTD
YTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASMLYEVLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFAKRGLGAGAKYSSRNRVGSTEVPSGVC

>P82947.1 Putative Major Gly 50 kDa allergen [Glycine max]
ANPTFGFTPLGLSSDAN

>ABC73068.1 Allergen venom allergen 5 [Vespula maculifrons]
MEISGLVYLIIIVTIIDLPYGKANNYCKIKCLKGGVHTACKYGSLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKVARGLETRGNPGPQPPAKNMKNLVWNDELAYVAQVWANQCQYG
HDTCRDVAKYQVGQNVALTGSTAAKYENPVNLVKMWENEVKDYNPKKKFSENNFIKIGHY
TQMVWANTKEIGCGSMKYTENKWHYHYLVCNYGPSGNFGNEELYQTK

>ABC73706.1 Allergen allergen precursor [Dermatophagoides pteronyssinus]
MKFIITLFAAIVMAAAVSGFIVGDKKEDEWRMAFDRLMMEELETKIDQVEKGLLHLSEQY
KELEKTKSKELKEQILRELTIGENFMKGALKFFEMEAKRTDLNMFERYNYEFALESIKLL
IKKLDELAKKVKAVNPDEYY

>P84527.1 Putative Kiwellin (Allergen Act c ?) [Actinidia deliciosa]
ISSCNGPCRDLNDCDGQLICIKGKCNDDPQVGTHICRGTTHSHQPGGCKPSGTLTCRGKS
YPTYDCSPPVTSSTPAKLTNNDFSEGGDDGGPSECDESYHNNNERIVALSTGWYNGGSRC
GKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNVG
VVDITWSMA

>Q00002.2 Putative Protein disulfide-isomerase (PDI) (Allergen Alt a 4) [Alternaria alternata]
ARDMTKQALPAVSEVTKDTLEEFKTADKVVLVAYFAADDKASNETFTSVANGLRDNFLFG
ATNDAALAKAEGVKQPGLVCTSPSTTARTSSPRPSMRTYPRLRKVASTPLIGEVGPETYA
GYMAAGIPLAYIFAETPEEREEFAKELKPLALKHKGEINFATIDAKSFGQHAGNLNLKVG
TWPAFAIQRTEKNEKFPTNQEAKITEKEIGKFVDDFLAGKIDPSIKSEPIPESNDGPVTV
VVAHNYKDVVIDNDKDVLVEFYAPWCGHCKALAPKYEELGQLYASDELSKLVTIAKVDAT
LNDVPDEIQGFLPSSLFPLARRMPQSTTLVPHCRGSRPVHRRERLTQASASVGEAVEDAT
ESAKASASSATDSAASAVSEGTETVKSGASVASDSASSAASEATKSVKSAASEVTNSASS
AASEASASASSVKDEL

>ABC96702.1 Allergen Der s 2 a allergen [Dermatophagoides siboney]
MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHFIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHAKIRD

>ABD39049.1 Allergen Fra a 1-A allergen [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTVIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFKLIEGYLKDHPSEYN

>1Z3Q_A Allergen Chain A, Resolution Of The Structure Of The Allergenic And Antifungal Banana Fruit Thaumatin-Like Protein At 1.7a [Musa acuminata]
ATFEIVNRCSYTVWAAAVPGGGRQLNQGQSWTINVNAGTTGGRIWGRTGCSFDGSGRGRC
QTGDCGGVLSCTAYGNPPNTLAEFALNQFNNLDFFDISLVDGFNVPMDFSPTSGGCRGIR
CAADINGQCPGALKAPGGCNNPCTVFKTDQYCCNSGACSPTDYSQFFKRNCPDAYSYPKD
DQTTTFTCPGGTNYRVVFCP

>ABD51779.1 Putative allergen Api m 6 variant 2 precursor [Apis mellifera]
MSRLVLASFLLLAVFSMLVGGFGGFGGFGGLGGRGKCPSNEIFSRCDGRCQRFCPNVVPK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCLPG

>ABD79094.1 Putative Zea m 1 allergen [Zea mays]
MWSLMQAQVAMVVALSFLVSGAWCGPPKVPPGKNITATYGKDWLDAKATWYGKPTGAGPD
DNGGGCGYKDVNKPPFNSMGACGNIPIFKDGLGCGSCFEIKCDKPVECSGKPVVVHITDM
NYEPIAAYHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKFGSKVSFHLEKGCGP
NYLALLVKYVDGDGDIVPVDIKEKGSDTYEPLKHSWGAIWRKDSDKPLKGPLTVRLTTEG
GTKTVYDDVIPANWKANTAYTAK

>ABD79095.1 Putative Zea m 1 allergen [Zea mays]
ARALVFLVSGAWCGPPKVPPGKNITATYGKDWLDAKATWYGKPTGAGPDDNGGGCGYKDV
NKPPFNSMGACGNIPIFKDGLGCGSCFEIKCDKPVECSGKPVVVHITDMNYEPIAAYHFD
LAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKYDSKVTFHLEKGCGPNYLALLVKYVD
GDGDIVAVDVKEKGSDTYEPLKHSWGAIWRKDSDKPLKGPLTVRLTTEGGTKSVYDDVIP
ANWKANTAYTAK

>ABD79096.1 Putative Zea m 13 allergen [Zea mays]
MACIDNAMRALFLLALFCVVHGEKAKSKDNDAKASGPGGSFDITKLGASGNGKTDSTKAV
QEAWASACGGTGKQTILIPKGDFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGN

WIEILRVDNLVITGKGKLDGQGPAVWSKNSCVKKYDCKILPNSLVMDFVNNGEVSGITLL
NSKFFHMNMYKCKDMLIKDVNVTAPGDSPNTDGIHMGDSSGVTITNTVIGVGDDCISIGP
GTSKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASV
LTASKIHYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNITGTSSTPEAV
NLLCSAKIPCTGVTMDDVNIKYSGTNNKTMAVCKNAKGSAKGCLKELACF

>ABD79097.1 Putative Zea m 13 allergen [Zea mays]
ARGALFLLALFCVVHGEKAKSKDNDAKASGPGGSFDITKLGASGNGKTDSTKAVQEAWAS
ACGGTGKQTILIPKGDFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGNWIEILR
VDNLVITGKGKLDGQGPAVWSKNSCVKKYDCKILPNSLVMDFVNNGEVSGITLLNSKFFH
MNMYKCKDMLIKDVNVTAPGDSPNTDGIHMGDSSGVTITNTVIGVGDDCISIGPGTFKVN
ITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASVLTASKI
HYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNIPGTSSTPEAVNLLCSA
KIPCTGVTMDDVNIKYSGTNNKTMAVCKNAKGSAKGCLKELACF

>ABD79098.1 Putative Zea m 13 allergen [Zea mays]
ARACTDNAMRALFLLVLFCIVHGEKEESKGIDAKASGPGGFFDITKLGASGNGKTDSTKA
VQEAWASACGGTGKQTILIPKGDFLVGQLNFTGPCKGDVTIQVDGNLLATTDLSQYKEHG
NWIEILRVDNLVITGKGNLDGQGPAVWSKNFCTKKYDCKILPNSLVMDFVNNGEVSGITL
LNSKFFHMNMYQCKNMLIKDVTVTAPGDSPNTDGIHMGDSSGITITNTVIGVGDDCISIG
PGTSKVNITGVTCGPGHGISIGSLGRYKDEKDVRDINVKDCTLKKTMFGVRIKAYEDAAS
VLTVSKIHYENIKMEDSANPIFIDMKYCPNKLCTANGASKVTVKDITFKNITGTSSTPEA
ISLLCTAKVPCTGVTMDDVNVEYSGTNNKTMAICTNAKGSTKGCLKELACF

>CAI84850.2 Putative vicilin-like protein, partial [Lupinus albus]
MGKMRVRFPTLVLVLGIVFLMAVSIGIAYGEKDVLKSHERPEEREQEEWQPRRQRPQSRR
EEREQEQEQGSPSYPRRQSGYERRQYHERSEQREEREQEQQQGSPSYSRRQRNPYHFNSQ
RFQTLYKNRNGKIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYVLVVLN
GRATITIVNPDRRQAYNLEYGDALRIPAGSTSYILNPDDNQKLRVVKLAIPINNPGYFYD
FYPSSTKDQQSYFSGFSRNTLEATFNTRYEEIQRILLGNEDEQEYEEQRRGQEQSHQDEG
VIVRVSREQIQELTKYAQSSSGKDKPSQSGPFNLRSNEPIYSNKYGNFYEITPDRNPQVQ
DLDISLTFTEINEGALLLPHYNSKAIFIVVVGEGNGKYELVGIRDQQRQQDEQEEEPEEV
RRYSARLSEGDIFVIPAGYPISVNASSNLRLLGFGINAYENQRNFLAGSEDNVIRQLDRE
VKELTFPGSAEDIERLIKNQQQSYFANALPQQQQQSEKEGRRGRRGPISSI

>CAJ85641.1 Allergen Major strawberry allergen Fra a 1-B [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFKLIEGYLKDHPSEYN

>CAJ85642.1 Allergen Major strawberry allergen Fra a 1-D [Fragaria x ananassa]
MGGYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFKLIEGYLKDHPSEYN

>CAJ85644.1 Allergen Major strawberry allergen Fra a 1-C [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGTIIKTTSKY
HTKGDVEIKEEHVKAGKEKASHLFKLIEGYLKDHPSEYN

>CAJ85646.1 Allergen Major strawberry allergen Fra a 1-E [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLVSAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKAAHLFKLIEGYLKDHPSEYN

>CAI78448.1 Putative cyclophilin [Aspergillus fumigatus]
MVVKTFFDITIDGQPAGRITFKLFDEVVPKTVENFRALCTGEKGFGYKGSSFHRIIPQFM
LQGGDFTKGNGTGGKSIYGDRFPDENFQLKHDKPGLLSMANAGKNTNGSQFFITTVVTSW
LDGAHVVFGEVEDGMDLVKKIESYGSASGTPKKKITIADCGQL

>CAI78449.1 Putative thioredoxin [Aspergillus fumigatus]
MSHGKVIAVDNPIIYKALTSSGPVVVDFFATWCGPCRAVAPKVGELSEKYSNVRFIQVDV
DKVRSVAHEMNIRAMPTFVLYKDGQPLEKRVVGGNVRELEEMIKSISA

>CAI78450.1 Putative thioredoxin [Aspergillus fumigatus]
MSHNVEKITDAKVFKEKVQEGSGPVIVDCSATWCGPCKAISPVFQRLSTSEEFKNAKFYE
IDVDELSEVAAELGVRAMPTFMFFKDGQKVNEVVGANPPALEAAIKAHVA

>NP_001035360.1 Putative allergen Api m 6 variant 1 [Apis mellifera]
MSRLVLASFLLLAIFSMLVGGFGGFGGFGGLGGRGKCPSNEIFSRCDGRCQRFCPNVVPK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCG

>ABF18122.1 Allergen 30 kDa salivary gland allergen variant 2 [Aedes aegypti]
MKPLVKLFLLFCLVGIVLSRPMPEDEEPVAEGGDDDASGESEGEEETTDDAGGDGGEEEN
EGEEHAGDKDAGGEDTGKEENTGHDDAGEEDAGEEDAGEEDAGEEDAGEEDAEKEEGEKE
DAGDDAGSDDGEEDSTGGDEGEDNAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEY
LRSALNNDLQSEVRVPVVEAIGRIGDYSKIQGCFKSMGKDVKKVISEEEKKFKSCMSKKK
SEYQCSEDSFAAAKSKLSPITSKIKSCVSSKGR

>ABF21077.1 Putative icarapin variant 1 precursor [Apis mellifera]
MKTLGVLFIAAWFIACTHSFPGAHDEDSKEERKNVDTVLVLPSIERDQMMAATFDFPSLS
FEDSDEGSNWNWNTLLRPNFLDGWYQTLQSAISAHMKKVREQMAGILSRIPEQGVVNWNK
IPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQNETILTTVSSEAD
SDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDVLTA

>ABF21078.1 Putative icarapin variant 2 precursor [Apis mellifera]
ERDQMMAATFDFPSLSFEDSDEGSNWNWNTLLRPNFLDGWYQTLQTHMKKVREQMAGILS
RIPEQGVVNWNKIPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQN
ETILTTVSSEADSDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDVLTA

>P0C1B3.1 Allergen Alpha-amylase A type-1/2 precursor (Taka-amylase A) (TAA) (1,4-alpha-D-glucan glucanohydrolase) [Aspergillus oryzae]
MMVAWWSLFLYGLQVAAPALAATPADWRSQSIYFLLTDRFARTDGSTTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQTTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCFIQNYEDQT
QVEDCWLGDNTVSLPDLDTTKDVVKNEWYDWVGSLVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPIYYPLLNAFKSTSGSMDDLYNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIPIIYAGQEQHYAGGN
DPANREATWLSGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSLSGAGYTAGQQLTEVIGCTTVTVGSDGNVPVPMAGGL
PRVLYPTEKLAGSKICSSS

>CAI94601.1 Allergen par j1.0103 protein, partial [Parietaria judaica]
QETCGTMVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTY
SDIDGKLVSEVPKHCGIVDSKLPPIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGPSDPAH
KARLERPQIRVPPPAPEKA

>CAK22338.1 Allergen Der p 2 allergen precursor [Dermatophagoides pteronyssinus]
MMYKILCLSLLVAAVAADQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEA
NQNTKNAKIEIKASIDGLEVDVPGIDPNACHYVKCPLVKGQQYDIKYTWNVPKIAPKSEN

VVVTVKVLGDNGVLACAIATHAKIRD

>ABF81661.1 Putative EXPB10 [Zea mays]
CKYGSKVTFHLEKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSDTYEPLKHSWGAIWRKD
SDKPIKGPITVRLTTEGGTKTVYDDVIPAEWKPNTAYTT

>ABF81662.1 Putative EXPB10 [Zea mays]
MTVVSIMWSLVQVQVLVAVALSFLVGGAWCGPPKVPPGKNITANYGSDWLDAKATWYGKP
TGAGPDDNGGGCGYKDVNKAPFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECSGKPVV
VYITDMNYEPIAAYHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKYGSKVTFHL
EKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSDTYEPLKHSWGAIWRKDSDKPIKGPITV
RLTTEGGTKTVYDDVIPTDWKPNTAYTTK

>ABG02262.1 Putative 8S globulin beta isoform precursor [Vigna radiata]
MVRARVQLLLGILFLASLSVSFGIVHREHQESQEESDSRGQNNPFYFNSDRRFHTLFKNQ
YGHLRVIHRFDQRSKQIQNLENYRVVEFKSKPNTLLLPHHADADFLLVVLNGRAILTLVN
PDGRDSYILEQGHAQKIPAGTTFFLVNPNDNDNLRIIKLAIPVNNPHRFQNFFLSSTEAQ
QSYLRGFSKNILEASFDSDFKEIDRVLFGEERQQQHGEESQEEGVIVELKREQIRELIKH
AKSSSRKELSSQDEPFNLRNSNPIYSNKFGRWYEITPEKNPQLKDLDVFISSVDMKEGGL
LLPHYNSKAIVILVINEGEAKIELVGPSDQQQQDESLEVQRYRAELSEDDVFVIPAAYPV
AINATSNLNFFAFGINAENNQRNFLAGEKDNVMSEIPTEVLDVSFPASGNKVEKLIKKQS
ESHFVDAQPEQQQREEGHKGRKGSLSSILGSLY

>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)]
MASSSLLLACVVVAAMVSAVSCGPPKVPPGPNITTSYGDKWLEAKATWYGAPKGAGPKDN
GGACGYKDVDKAPFLGMNSCGNDPIFKDGKGCGSCFEIKCSKPEACSDKPALIHVTDMND
EPIAAYHFDLSGLAFGAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNP
NYLALLVKYVAGDGDVVEVEIKEKGSEEWKALKESWGAIWRIDTPKPLKGPFSVRVTTEG
GEKIIAEDAIPDGWKADSVYKSNVQAK

>ABG54494.1 Putative putative allergen Rub i 3 [Rubus idaeus]
MACSAVMKLALVALLCIVVAVPVAQAITCGQVTQNVAPCFNYVKNGGAVPAACCNGVRNL
NSQAKTTADRQQTCNCLKNAAGSIPGLNPSLAAGLPGKCGVSVPYKISTSTNCATVK

>ABG54495.1 Putative putative allergen Rub i 1 [Rubus idaeus]
YTSVIPPPKLFKAFVLDADNLIPKIAPQAVKSVEIIEGDGGVGTVKKIHLGEGTEHSYVK
HKIDGLDKVNFVYSYSITEGDALGDKIEKISYEIKLVASGRGSIIKTTSHYHCKGGAEIK
EEQVKDGKERAAGLFKI

>CAL07989.1 Allergen lipid transfer protein [Platanus x acerifolia]
MAFSRVAKLACLLLACMVATAPHAEAAITCGTVVTRLTPCLTFLRSGGAVAPACCNGVKA
LNNDAKTTPDRQAACGCLKTASTSISGIQLGNAASLAGKCGVNLPYKISPTIDCSKVK

>CAK50389.1 Allergen ani s 4 allergen [Anisakis simplex]
MQSRIVVAVVVFCCIILMQTEAGMLGGSSDVDVNDPEIKELAGKSIAKISAMINDGKPHE
LVKVVSAKKQVVAGDKYTLEILVKDGDHQDLCTVTIWQKKWENFEEVKVLKCDHQ

>ABG73108.1 Putative Pis v 1 allergen 2S albumin [Pistacia vera]
MAKLVLLLSAFAFLILAANASIYRATVEVEGENLSSGQSCQKQFEEQQKFKHCQMYVQQE
VQKSQDGHSLTARINQRQQCFKQCCQELQEVDKKCRCQNLEQMVKRQQQQGQFRGEKLQE
LYETASELPRMCNISPSQGCQFSSPYWSY

>ABG73109.1 Putative Pis v 2.0101 allergen11S globulin precusor
[Pistacia vera]
MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFWDQNEEQLQCANVAVFRHTIQSRGLLVPSYDNAPELVYVVQGSGIHGAVFPGCP

ETFQEESQSRSRSERSQQSGEQHQKVRPIQEGDVIALPAGVAHWIYNNGQSKLVLVALAD
VGNSENQLDQYLRKFVLGGSPQQEIQGSGQSRSRSQSQSSRRGQQGQQSNNILSAFDEEI
LAQSFNIDTQLARRLQKEKRQRGIIVRVQEDLEVLSPHRQEQEQEYEEERERRQRNGLEE
TFCTMTLKYNINDPSRADVYNPRGGRVSSVNALNLPILRFLQLSAKKGVLHRDAILAPHW
NVNAHSIVYITRGNGRIQIVSENGESVFDEEIREGQLVVVPQNFAVVKRASSDKFEWVSF
KTNGLSQTSQLAGRVSVFRALPLDVIKNSFDISREDARRLKESRSETTIFAPGSSSQRKS
QSERERQREREEREIH

>ABG73110.1 Putative Pis v 2.0201 allergen 11S globulin precusor [Pistacia vera]
MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFWDQNEEQLQCANVAVFRHTIQSRGLLVPSYNNAPELVYVVQGSGIHGAVFPGCP
ETFQEESQSQSRSQHSRSERSQQSGEQHQKVRHIREGDIIALPAGVAHWIYNNGQSKLVL
VALADVGNSENQLDQYLRKFVLGGSPQQEIQGGGQSWSQSRSSRKGQQSNNILSAFDEEI
LAQSFNIDTQLVKKLQREEKQRGIIVRVKEDLQVLSPQRQEKEYSDNGLEETFCTMTLKL
NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNGRMQIVSENGESVFDEEIREGQLVVVPQNFAVVKRASSDGFEWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSQRQRN

>ABG76196.1 Allergen group 2 allergen Der p 2 [Dermatophagoides pteronyssinus]
RDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEANQNSKTAKIEIKASID
GLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDNGVLAC
AIATHAKIRD

>ABG81289.1 Putative pollen profilin variant 2 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>ABG81290.1 Putative pollen profilin variant 3 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81291.1 Putative pollen profilin variant 4 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81292.1 Putative pollen profilin variant 5 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81293.1 Putative pollen profilin variant 6 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81294.1 Putative pollen profilin variant 7 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGAVTRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>ABG81295.1 Putative pollen profilin variant 8 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCSMVVE

RLGDYLVKQGL

>ABG81312.1 Putative pollen profilin variant 1 [Zea mays]
MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNIIKDFDEPGFL
APIGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>ABG81313.1 Putative pollen profilin variant 2 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQAMVVGIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>ABG81314.1 Putative pollen profilin variant 3 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAAWAQSTAFPEFKTEDMANIMKDFDEPGHL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>ABG81315.1 Putative pollen profilin variant 4 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLLEQGM

>ABG81316.1 Putative pollen profilin variant 5 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>ABG81317.1 Putative pollen profilin variant 6 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQSKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQAMVVGIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>ABG81318.1 Putative pollen profilin variant 7 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQAMVVGIYDEPMTPGQCNMVVE
RLGDYLLNRA

>ABG85155.1 Allergen pathogenesis-related protein 10 [Arachis hypogaea]
MGVFTFEDEITSTLPPAKLYNAMKDADSLTPKIIDDVKSVEIVEGSGGPGTIKKLTIVED
GETRFILHKVEAIDEANYAYNYSVVGGVALPPTAEKITFETKLVEGHNGGSTGKLSVKFH
SKGDAKPEEEDMKKGKAKGEALFKAIEGYVLANPTQY

>ABH06346.1 Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARPLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>ABH06348.1 Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIINTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>ABH06350.1 Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLLHITHEVDDLEET
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>ABH06352.1 Allergen Blo t 5 allergen [Blomia tropicalis]

MKFAIVLIACFAASVLAQGHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQLDEL
NENKSKELQEKIIRELDVVCAMIEGAQGALERELKRTDLNILERFNYEEAQTLSKILLKD
LKETEQKVKDIQTQ

>ABH06359.1 Allergen Blo t 5 allergen [Blomia tropicalis]
MKFAIVLIACFAASVLAQEHKPEKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQLDEL
NENKSKELQEKIIRELDVVCAMIEGAQGALERELKRTDLNILERFNYEEAQTLSKILLKD
LKETEQKVKDIQTQ

>ABH06347.1 Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNAATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>ABI17154.1 Allergen iso-Ara h3 [Arachis hypogaea]
MAKLLALSLCFCVLVLGASSVTFRQGGEENECQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRRNALRRPFYSNAPLEIYVQQGSGYFGLIFPGCPSTYEEPAQEGR
RYQSQKPSRRFQVGQDDPSQQQQDSHQKVHRFDEGDLIAVPTGVAFWMYNDEDTDVVTVT
LSDTSSIHNQLDQFPRRFYLAGNQEQEFLRYQQQQGSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEFLQHAFQVDRQTVENLRGENEREEQGAIVTVKGGLRILSPDEEDESSRSPPSR
REEFDEDRSRPQQRGKYDENRRGYKNGIEETICSASVKKNLGRSSNPDIYNPQAGSLRSV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVVDSNGNRVYDE
ELQEGHVLVVPQNFAVAAKAQSENYEYLAFKTDSRPSIANLAGENSIIDNLPEEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>ABI26088.1 Putative TCTP [Alternaria alternata]
MLIYKDILTGDEIISDSYNLKEIDGVVYEADCTKITVGGESFDTGANASAEEQEEGAEDS
AETKIDVVYSFRLNETGFDKKGYLTYLKGYMKAVKDGLKKKGADEATIKDFETKASGYAK
KIISNFKDYEFFTGESMNPDGMIVLLNYREDGVTPYVTVWKHGLEEMKV

>ABI32184.1 Putative allergenic protein [Fagopyrum tataricum]
MSTKLILSFSLCLMVLSCSAQAAQLWPWRKGQDSRPHHGHQQFQQQCDIQRLTASEPSRR
VRSEAGVTEIWDHNTPEFRCTGFVAVRYVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVI
PGCPETFQSDSEYPQSQRGQHSRESESQESSRGDQHQKIFRVREGDVIPSPAGVVQWTHN
DGDQDLISVTLLDANSFHNQLDENVRSFFLAGQSQQGREERRSQQQTREEGGDRQSRESD
DVEALIGANILSGFQDEILHELFRDVDRETISKLRGENDQRGFIVQAQDLKLRVPEDSEE
GYERQRGDRKRDERGSGRSNGLEQAFCNLKFRQNVNRPSHADVFNPRAGRINTVNSNNLP
ILEFLQLSAQHVVLYKNAIIGPRWNLNAHSALYVTRGEGRVQVVGDEGKSVFDDNVQRGQ
ILVVPQGFAVVVKAGRQGLEWVELKNNDNAITSPIAGRTSVLRAIPVEVLANSYDISTEE
AYKLKNGRQEVEVFRPFQSRYEKEEEKERERFSIV

>AAU21499.2 Putative oleosin 1 [Arachis hypogaea]
MTDRTQPHTVQVHTTAGRFGDTAAGTNRYPDRGPSTSKVIAVITGLPIGGTLLLFAGLAL
AGTLLGLAVTTPLFILFSPVIVPAIIVVGLSVAGFLTSGACGLTGLSSFSWVMNYIRQTH
GSVPEQLEMAKHRMADVAGYVGQKTKDVGQKTKEVGQEIQTKAQDSKRT

>Q01883.2 Putative Seed allergenic protein RAG1 precursor (Seed allergenic protein RA17) [Oryza sativa (japonica cultivar-group)]
MASNKVVFSVLLLVVLSVLAAAMATMADHHQVYSPGEQCRPGISYPTYSLPQCRTLVRRQ
CVGRGAASAADEQVWQDCCRQLAAVDDGWCRCGALDHMLSGIYRELGATEAGHPMAEVFP
GCRRGDLERAAASLPAFCNVDIPNGPGGVCYWLGYPRTPRTGH

>Q01882.2 Putative Seed allergenic protein RAG2 precursor (Seed allergenic protein RA14) [Oryza sativa (japonica cultivar-group)]
MASNKVVFSALLLIIVSVLAATATMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVGHGAPGGAVDEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHPMAE
VFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>NP_001041618.1 Allergen major allergen I, polypeptide chain 1 [Felis catus]
MLDAALPPCPTVAATADCEICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENARILK
NCVDAKMTEEDKENALSLLDKIYTSPLC

>2HCZ_X Putative Chain X, Crystal Structure Of Expb1 (Zea M 1), A Beta-Expansin And Group-1 Pollen Allergen From Maize [Zea mays]
GPPKVPPGXNITTNYNGKWLTARATWYGQPNGAGAPDNGGACGIKNVNLPPYSGMTACGN
VPIFKDGKGCGSCYEVRCKEKPECSGNPVTVYITDMNYEPIAPYHFDLSGKAFGSLAKPG
LNDKIRHCGIMDVEFRRVRCKYPAGQKIVFHIEKGCNPNYLAVLVKYVADDGDIVLMEIQ
DKLSAEWKPMKLSWGAIWRMDTAKALKGPFSIRLTSESGKKVIAKDVIPANWRPDAVYTS
NVQFY

>BAF32105.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32110.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPQFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32116.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32119.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDSDIEQYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDINLSDISLKLTSGKIASCLNDNANGYFS
GNVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32122.1 Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GNVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32128.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGTENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32130.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32133.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>BAF32134.1 Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRDSPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPNAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>BAF32143.1 Putative pollen allergen [Chamaecyparis obtusa]
LDSDIEQYLRSNRSLKKLVHSRHDAATVFNVEQYGAVGDGKHDSTEAFETAWNAACKKAS
AVLVVPANKKFFVNNLVFRGPCQPHLSFKVDGTIVAQPDPARWKNSKIWLQFAQLTDFNL
MGTGVIDGQGQQWWAGQCKVVNGRTVCNDRNRPTAIKIDYSKSVTVKELTLMNSPEFHLV

FGECEGVKIQGLKIKAPRDSPNTDGIDIFASKRFHIEKCVIGTGDDCIAIGTGSSNITIK
DLICGPGHGISIGSLGRDNSRAEVSHVHVNRAKFIDTQNGLRIKTWQGGSGLASYITYEN
VEMINSENPILINQFYCTSASACQNQRSAVQIQGVTYKNIHGTSATAAAIQLMCSDSVPC
TGIQLSNVSLKLTSGKPASCVDKNARGFYSGRLIPTCKNLRPGPSPKEFELQQQPTTVM

>ABI98020.1 Putative arginine kinase [Litopenaeus vannamei]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLTKEVFDKLKDKRTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVNSFVNVDPEGKFV
ISTRVRCGRSLQGYPFNPCLTESQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEM

>Q1ZYQ8.2 Putative Expansin-B10 precursor (ZmEXPB10) (Beta-expansin-10)
(Pollen allergen Zea m 1c) [Zea mays]
MAVNVRTMWSSMRAQVAMVVALVFLVRGAWCGPPKVPPGKNITATYGKDWLDAKATWYGK
PTGAGPDDNGGGCGYKDVNKPPFNSMGACGNIPIFKDGLGCGSCFEIKCDKPVECSGKPV
VVHITDMNYEPIAAYHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKYDSKVTFH
LEKGCGPNYLALLVKYVDGDGDIVAVDVKEKGSDTYEPLKHSWGAIWRKDSDKPLKGPLT
VRLTTEGGTKSVYDDVIPANWKANTAYTAK

>P0C1Y5.1 Putative Expansin-B11 precursor (ZmEXPB11) (Beta-expansin-11)
(Pollen allergen Zea m 1a) (Pollen allergen Zea m 1b) [Zea mays]
MTVVSIMWSLVQVQVLVAVALAFLVGGAWCGPPKVPPGKNITAKYGSDWLDAKATWYGKP
TGAGPDDNGGGCGYKDVNKAPFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECSGKPVV
VYITDMNYEPIAAYHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKYGSKVTFHL
EKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSDTYEPLKHSWGAIWRKDSDKPIKGPITV
QLTTEGGTKTVYDDVIPAGWKPNTAYTAK

>CAL59818.1 Allergen hyaluronidase [Vespula germanica]
SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFNIKRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYKKRNGGVPQEGNITIHLQKFIENLDKTYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGYY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLSYWWYVYQDETNTYLTETDVKKTFQEIVINGGDGIIIWGSSS
DVNSLSKCKRLQDYLLTVLGPIAVNVTEAVN

>CAL59819.1 Allergen hyaluronidase homologue [Vespula germanica]
VITIWPKKGFSIYWNIPTHFCHNFGVYFKELKQFNIKYNSMNNFRGETISLFYDPGNFPS
MVLLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETSAKIFMEKTLKLAKEIRKKTEWG
YHGYPHCLSGSTDKPSFDCDALSMSENDKMSWLFNNQNVLLPSIYLKNVLKPDEKIHLVQ
ERLKEAIRISKNLKHLPKVLPYWWYTYQDKESIFLTEADVKNTFKEILTNGADGIIIWGV
SYELTDRKRCEKLKEYLMKILGP

>ABK78766.1 Allergen major allergen Cup a 1 [Cupressus arizonica]
SDNPIDSCWRGDSNWDQNRMKLADCVVGFGSSTMGGKGGEIYTVTSSEDNPVNPTPGTLR
YGATREKALWIIFSQNMNIKLQMPLYVNGYKTIDGRGADVHLGNGGPCLFMRKASHVILH
GLHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVTNAWIDHNSLSDCSDGLIDVT
LGSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVH
VANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRST
RDAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQNAGVVA

>P00791.3 Putative RecName: Full=Pepsin A; Flags: Precursor [Sus scrofa]
MKWLLLLSLVVLSECLVKVPLVRKKSLRQNLIKNGKLKDFLKTHKHNPASKYFPEAAALI
GDEPLENYLDTEYFGTIGIGTPAQDFTVIFDTGSSNLWVPSVYCSSLACSDHNQFNPDDS
STFEATSQELSITYGTGSMTGILGYDTVQVGGISDTNQIFGLSETEPGSFLYYAPFDGIL
GLAYPSISASGATPVFDNLWDQGLVSQDLFSVYLSSNDDSGSVVLLGGIDSSYYTGSLNW

VPVSVEGYWQITLDSITMDGETIACSGGCQAIVDTGTSLLTGPTSAIANIQSDIGASENS
DGEMVISCSSIDSLPDIVFTINGVQYPLSPSAYILQDDDSCTSGFEGMDVPTSSGELWIL
GDVFIRQYYTVFDRANNKVGLAPVA

>P0C0Y4.2 Allergen Probable NADP-dependent mannitol dehydrogenase (MtDH) (Mannitol 2-dehydrogenase [NADP+]) (Allergen Alt a 8) [Alternaria alternata]
MPISVPQATELKDLFSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKCQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFRERKTGSLVITSSMSGHIANFPQEQASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMIPMGRDAKATELKGA
YVYFASDASSYCTGSDLLIDGGYCVR

>ABL09307.1 Putative allergen Aca s 13 [Acarus siro]
MVQINGSYKLEKSDNFDAFLKELGLNFVTRNLAKSATPTVEVSVNGDSYTIKTASTLKNT
EISFKLGEEFEEARADGKTVKTVVNKESDTKFVQVQQGDKEVTIVREFSDEGLTVTATVN
GVTSVRFYKRQ

>ABL09312.1 Putative allergen Aca s 4 [Acarus siro]
MAHLLLAVVAITLALSQSVFGGSPYSNPHFTGSRSVITHLMQWKFDDIAAECERFLGPKG
YGGIQLSPVNEHAVLGNRPWYELYQPVGYKIQSRSGNEEQFKGMVQRCNKVGVRIYVDIV
MNHMSGAQEGHGNCWFKLQWHHDVSRCSLLVPNDFHGRESCHTDNMDIKNYDNPEEARNC
RLSGLRDLKQSSEYVRQKQADFLNHLIDLGVAGSRSDASKHMWPGDLEAIYGKLHNLNTA
YFPANSRPFIYHEVIYYGGDGIKSSDYTKLGRAIEFHFYRDIANVVRRHNQLKTVKNFGQ
PWGMVPSDDALVMVDSHDLQRFHTGQVGVNINYFESRLLKVATAFMLAWPYGVPRVMSSY
HWDQKIEDGKDKNDWIGPPSDGSGNILSVTPQPDDTCNKEWICEHRWRQIYNMVHFRNVA
GNEAVSHWWDNGDYQIAFGRGSKAFIAINLQDGQGLNRKLATGLPQGTYCDLVTGNLAGG
KCTGGTVTVDGSGNADINIAKTAEDPFVAIHVEAKLH

>ABL77410.1 Putative UA3-recognized allergen [Anisakis simplex]
AKYGSQFCKNLLANCLSSTGATLPMQSPWQIPPVVSSCITSGMAKGTDHNKKDVMATCIQ
RYGADFCKNMVGSCAALTDVTLTSYGIGSVLPQVIVDCMTSEMSSPSIMWQCVQKYGTEF
CKKLLQDCSASTGASLSPQAPWLIPSVIAECMAKGMVNGGRQADDTMAICIQKYGIKFCN
IIGAACSVLTQVPFFPQLPGTVQQLPSELRACVRSETQKPNVMTKCVEKYGTEFCSSLLQ
SCSASTGAILPLREPWKIPHPIADCMYAGMNPESKEDRGGIMSKCIRRYGFDFCKKMLES
CSALTSVQHDSRNTNYASLPQVLKDCMASEMDSPSVMFECVQRYGTPFCKGLLETCTEKT
RASLSPQAPWLIPTAIAQCMRQGMNQGDEKKTLMSLCVRRYGADYCNNLAAACSVLTNLP
FFPQTPPSEQNLPPMMHKCLKSEMENPGIMSTCVQRYGTQFCKNLLNSCTASTGMHLPYD
APWKIPEPIAACMAQGMNGGDHKPKEDAMARCIRKYGVTYCNNMLASCSVLTNVNYDPSG
GQMPGILSECVTAETDEPSAMCQCVQKYGTEFCKKRLASCIASTGMNLPATTPWKLPPPV
ARCMQHGSPNDNRGQGQGSNDVMSQCIARYGAEFCQRLARFCYAMNSLQYPGETFDPQQQ
TPTQVARCMKSEMDSPSVMWHCVQKYGQEFCNKLAATCSTETNTPLPQQDPWRLPQPIIA
CMLGKMNNPNPTSKPQSVMSQCTARYGDDFCLSLGKACAELNNVPSSMISLSAQQLPQPV
SSCMKAEMNNPSALWQCIQQYGIEFCKKLRDACSAMTGASLSTTTPWILPQPVSNCMRNE
MNNPSAMWLCIQKYGIEFCNRLASACAMIKKVTMPTVTINLPEIIASCVASENSQAMCYA
RKGPEQCKTEENICRNPNNPPGSPLTIPETECMKSQVAMATCQKKFGSECVALQQECVAG
TGAPPVTIGARGAFMLATALRSCIFNGGVIGSCVLYHPPSQCDQWVQQCATALQTSAGVT
VAGGYRQLSPPMAVCVASQDLMTRCMTRLGQGTCQQAVKNCKRRFNTPSSRLPGRLWSLS
SELINCLYRPVNRASN

>ABL84749.1 Allergen Der f 1 allergen [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT
ATPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVVIM

>ABL84750.1 Allergen Der f 1 allergen [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQKLVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVVIM

>ABL84751.1 Allergen Der f 1 allergen [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIRHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVVIM

>ABL89183.1 Putative allergen tropomyosin [Portunus sanguinolentus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>ABM53030.1 Putative profilin [Caryota mitis]
MSWQAYVDHHLMCEIDGQRLAAAAILGHDGSVWAQSETFPQVKPEEISGIMNDFAEPGNL
APTGLYLGNTKYMVIQGEPGAVIRGKKGSGGVTIKKTNMALIIGIYDEPMTPGQCNMIIE
RLGDYLIDQGF

>ABM53751.1 Putative mite allergen Tyr p 13 [Tyrophagus putrescentiae]
MTIEGKYKLEKSENFDAFLDKLGVGFMVKTAAKTLKPTLEVEVAGDTYTLRSLSTFKNTE
IKFKLGEEFEEDRADGKKVKTVVNKEGDNKLVQTQFGDKEVKIIREFNGDDVVVTASVDG
VTSVRSYKRI

>BAF43534.1 Putative SXP/RAL-2 family protein [Anisakis simplex]
MKTLIVAALFCTIGMALADDTPPPPPFLAGAPQDVVKAFFELLKKDETKTDPEIEKDLDA
WVDTLGGDYKAKFETFKKEMKAKEAELAKAHEEAVAKMTPEAKKADAELSKIAEDDSLNG
IQKAQKIQAIYKTLPQSVKDELEKGIGPAVPQ

>ABM60783.1 Putative pectate lyase [Penicillium citrinum]
VGDVATGYASENGGTTGGSGGTTTTVSSYAAFTEAVSGDDAKVVFVSGKISKTADQARVG
SNTSIIGKDSNAILSGFGVLVKEASNVIIRNLGVEKVLADNGDAIGIQKSNNVWVDHCDV
SSDRDHDKDYYDGLIDITHAADYVTVSNTSIHDHWKACLIGHSDSNGDEDKGHLHVTLNN
NYWYNINSRGPSFRFGTGHVYNSYYLDMSDGINTRQGAQHLVESNTFSGSKKPLYSTDDG
YAVANDNDFGDGENNAEKGTLTSVPYSYDLVGSGKVKDAVVGTAGQTLTF

>P80740.2 Putative Superoxide dismutase [Cu-Zn] (Allergen Ole e 5) (Ole e V) [Olea europaea]
MVKAVTVLNSSEGPHGIVYFAQEGDGPTTV

>P82977.2 Putative RecName: Full=Subtilisin-chymotrypsin inhibitor WSCI; Flags: Precursor [Triticum aestivum]
MSSVVKKPLGGNTDTGDHHNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLDKIAQVPRVG

>Q45W86 Putative Oleosin 2 [Arachis hypogaea]
MAEALYYGGRQRQDQPRSTQLVKATTAVVAGGSLLILAGLVLAATVIGLTTITPLFVIFS
PVLVPAVITVALLGLGFLASGGFGVAAITVLTWIYRYVTGKHPPGANQLDTARHKLMSKA
REIKDYGQQQTSGAQAS

>BAF45320.1 Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRRVEHSRHDAINIFN
VEKYG

>ABN03965.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVCYGMQGNNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHDATILFLKSDM

>ABN03966.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVCYGMQGNNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVRNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>ABN09653.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASIGITDAQVGVCYGMQGNNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLTNIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFATFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>ABN09654.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVCYGMQGNNLPSVSEVIALYK
KSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSSXSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>ABN09655.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVCYGMQGNNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>ABN14313.1 Allergen Der f 2 allergen [Dermatophagoides farinae]
MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHGKIRD

>BAF46896.1 Putative tropomyosin [Balanus rostratus]
MDAIKKKMQAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLLQKKYTNLENEFDQV
NEQYNEGVTKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTPVKLDEATFKLEDATKTA

DESERGRKVLESRSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLEDELLAEKEKYKAISDELDQTFAELAGM

>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]
VEPSGHAADRIARLPGQPAVDFDMYSGYITVDEGAGRSLFYLLQEAPEDAQPAPLVLWLN
GGPGCSSVAYGASEELGAFRVKPRGAGLVLNEYRWNKVANVLFLDSPAGVGFSYTNTSSD
IYTSGDNRTAHDSYAFLAKWFERFPHYKYRDFYIAGESYAGHYVPELSQLVHRSKNPVIN
LKGFMVGNGLIDDYHDYVGTFEFWWNHGIVSDDTYRRLKEACLHDSFIHPSPACDAATDV
ATAEQGNIDMYSLYTPVCNITSSSSSSSSSLSQQRRSRGRYPWLTGSYDPCTERYSTAYY
NRRDVQMALHANVTGAMNYTWATCSDTINTHWHDAPRSMLPIYRELIAAGLRIWVFSGDT
DAVVPLTATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRP
RQALVLFQYFLQGKPMPGQTKNAT

>BAF47263.1 Putative tropomyosin fast isoform [Marsupenaeus japonicus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>BAF47265.1 Putative tropomyosin fast isoform [Paralithodes camtschaticus]
MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANNRAEKAEEEVHGLQKRMQQLENDLDQV
QESLLKANTQLEDKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>BAF47266.1 Putative tropomyosin slow-tonic isoform [Paralithodes camtschaticus]
MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANNRAEKTEEEIRLTQKKMQQVENELDVA
QEQLSLANTKLEEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>BAF47268.1 Putative tropomyosin slow-twitch isoform [Erimacrus isenbeckii]
MDAIKKKMQAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>BAF47269.1 Putative tropomyosin slow-tonic isoform [Erimacrus isenbeckii]
MDAIKKKMQAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>AAM09530.3 Putative latherin [Equus caballus]

MLKVSCLFVLLCGLLVPSSAQQIPPEVSSQITDALTQGLLDGNFLSLLNAINLEGLLNTI
LDQVTGLLNILVGPLLGPSDAEIKLQDTRLLQLSLEFSPDSKGIDIWIPLELSVYLKLLI
LEPLTLYVRTDIRVQLRLESDEDGKYRLAFGHCSLLPRAIELQSGNPLSLPVNAVLGTIE
NALGNFITEDLGAGLCPTLNSLVSNLDLQLVNNLINLILDRANVDLSV

>ABO36677.1 Putative vicilin [Pistacia vera]
KTDPELKQCKHQCKVQRQYDEEQKEQCAKGCEKYYKEKKGREQEEEEEEEWGSGRGRGDE
FSTHEPGEKRLSQCMKQCERQDGGQQKQLCRFRCQEKYKKERREHSYSRDEEEEEEGDEE
QEEEDENPYVFEDEHFTTRVKTEQGKVVVLPKFTKRSKLLRGLEKYRLAFLVANPQAFVV
PNHMDADSIFFVSWGRGTITKIRENKRESMNVKQGDIIRIRAGTPFYIVNTDENEKLYIV
KLLQPVNLPGHYEVFHGPGGENPESFYRAFSREVLEAALKTPRDKLEKLFEKQDEGAIVK
ASKEQIRAMSRRGEGPSIWPFTGKSTGTFNLFKKDPSQSNNYGQLFESEFKDYPPLQELD
IMVSYVNITKGGMSGPFYNSRATKIAIVVSGEGRLEIACPHLSSSKNSGQEKSGPSYKKL
SSSIRTDSVFVVPAGHPFVTVASGNQNLEILCFEVNAEGNIRYTLAGKKNIIEVMEKEAK
ELAFKTKGEEVDKVFGKQDEEFFFQGPKWRQHQQGRADE

>CAM54066.1 Allergen cell wall protein PhiA [Aspergillus fumigatus]
MQIKSFVLAASAAATASAAACQAPTNKYFGIVAIHSGSAVQYQPFSAAKSSIFAGLNSQN
ASCDRPDEKSATFYIQDGSLYLYAASATPQEIFVDRSGMGQGKIGYTTGAQPAPRNSERQ
GWAIDSQNHLQFQGKDLIACPNSIDGAWSIWADAGVANPAGNTDCVGIAARVEDVTNPNS
CVYTQ

>ABO71783.1 Putative tropomyosin [Eriocheir sinensis]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>BAF51970.1 Allergen thaumatin-like protein [Cryptomeria japonica]
MAKVSDLALLLVAGMAISLYIQETGAVKFDIKNQCGYTVWAAGLPGGGQQLTQGQTWTVN
LAAGTQSARFWGRTGCSFDASGKGTCQTGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDV
SLVDGFNIPLSINPTNAQCTAPACKADVNAVCPAELKVDGGCKSACAAFQTDQYCCTGTY
ANSCPATNYSMIFKNQCPQAYSYPKDDTATFACPSGTDYSIVFCP

>ABO84963.1 Putative group 21 allergen [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRNAFDRMLMEEFGEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84964.1 Putative group 21 allergen [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRNAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84966.1 Putative group 21 allergen [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRNAFDRMLMEEFEEKIDQIEHGLLMLSEQYKE
SEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84967.1 Putative group 21 allergen [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRNAFDRMLMEEFEEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO84968.1 Putative group 21 allergen [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRNAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVPTIEILVK

DLAELAKKVKAVKSDD

>ABO84969.1 Putative group 21 allergen [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRGAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>ABO93594.1 Putative BW10KD allergen protein [Fagopyrum tataricum]
MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTMDMMDADSMRGQEC
RSEESCMRGCCMAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMKQLPNKCGMGH
MRCHMGMGTRVYE

>ABP04043.1 Allergen Bla g 4 allergen [Blattella germanica]
AVLALCASDTLAMEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDA
LYSLYTDSKGNNKTAIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYDNYAIVEGCPA
AANGHVIYVQLRLTWRRFHPKLGDKEMIQHYTLDQVNQHKKAIEEDLKHFNLKYEDLHST
CH

>ABP04044.1 Allergen Bla g 5 variant allergen [Blattella germanica]
YKLTYCPVKALGEPIRFLLSYGEKDFEDYRFQEGDWPKLKPSMPFGKTPVLEIDGKQTHQ
SVAISRYLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQPNLKALRE
KVLGLPAIKAWVAKRPPTDL

>ABP35603.1 Allergen Bla g 2 allergen variant [Blattella germanica]
MIGLKIVTVLFAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLTVFDSTSCN
VVVASQECVGGACVCPNLQKYEKLKPRYISDGNVQVKFFDTGSAVGRGIEDSLTIFNLTT
SQQDIVLADELSQEVCILSADGVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHAR
FQDGEHFGEIIFGGSDWKYVDGEFTYVPLVGDDSWKFRLDGVKIGDTTVAPAGTQAIIDT
SKAIIVGPKAYVNPINEAIGCVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSGFQPCGHSDHFFIGDFFVDHYYSEFNWENKAMGFGRSVESV

>ABP58627.1 Putative pollen allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGTPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABP58632.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
PPVSQFHIQGQIYCDTCRSRFITELSEFIPGASVRLQCREKENGDITFTEIGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKK
EALPKCAQVYNKLGMYPPNM

>ABP58633.1 Allergen major pollen allergen Ole e 1 [Olea europaea]
PPVSQFHIQGQVYCDTCRAGFITELSEFIPGASVRLQCREKKNGDITFTEVGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLDMYPPNM

>ABP58635.1 Allergen major pollen allergen Ole e 1 [Olea europaea] [Olea europaea]
PPVSQFHIQGQVYCDTCRARFITELSEFIPGASVRLQCRDGENGSITFTEVGSTRAEGLY
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]
PPVSQFHVQGQIYCDTCRAGFIAELSEFILGAGVRLQCRDSKKGNITFTEVGYTRAEGLY
SMLIERDHKNEFCEVNSLSSSRKDCDEIPIEGWVRPSLRFLLNTVNGTTCTIKPLGFFKN
KALPKCPQVFNKLGMYPPDL

>P80273.2 Putative Nonspecific lipid-transfer protein P3 (LTP P3) [Vitis sp.]
LSCGDVATQMASCINYLRGAGPLPAACCNGVKNLKNSATTTQDRRTACKCLISASKTISG
VNFGLAAGLPAKCGVSIPYKISPSTNCDQVN

>ABP97433.1 Allergen Ara h 8 allergen isoform [Arachis hypogaea]
MGVHTFEEESTSPVPPAKLFKATVVDGDELTPKLIPAIQSIEIVEGNGGPGTVKKVTAVE
DGKTSYVLHKIDAIDEATYTYDYTISGGTGFQEILEKVSFKTKLEAADGGSKIKVSVTFH
TKGDAPLPDEVHQDVKQKSQGIFKAIEGYVLSN

>ABQ10638.1 Putative vicilin-like protein [Fagopyrum esculentum]
GDYPFEPRRQIEHCRQRCQDRSQGFRETRECLETCEKRAGFDDEPSKEVDSYTTDTRSRD
PQQEFRQCRHRCQTQEEGGRQQRKCEQRCEKQLERQQGYDDEEFGQGRSNIGAPVRNYDD
CTEMCGGSPLCALFCE

>ABQ42566.1 Allergen thaumatin-like protein [Actinidia deliciosa]
ATFNIINNCPFTVWAAAVPGGGKRLDRGQNWIINPSAGTKGARVWPRTGCNFDGAGRGKC
QTGDCNGLLQCQAFGQPPNTLAEYALNQFNNLDFFDISLVDGFNVAMEFSPTSGGCTRGI
KCTADINGQCPNELRAPGGCNNPCTVFKTDQFCCNSGNCGLTNFSKFFKDRCPDAYSYPK
DDQTSTFTCPAGTNYKVVFCP

>CAM56785.1 Allergen parvalbumin beta [Gadus morhua]
MAFAGILADADCAAAVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLFLQVFKAGARALTDAETKAFLKAGDSDGDGAIGVEEWAVLVKA

>CAM56786.1 Allergen parvalbumin beta [Gadus morhua]
MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSSADIKKVFEIIDQDKSDFVE
EDELKLFLQNFSAGARALSDAETKVFLKAGDSDGDGKIGVDEFGAMIKA

>ABQ59329.1 Putative vacuolar serine protease [Cladosporium cladosporioides]
DQEVHVLKSESEVEKNAPWGLARISHRDSLSFGTFNKYLYTEDGGEGVDVYVVDTGTNVD
HVDFEGRASWGKTIPQGDADEDGNGHGTHCSGTVAGKKYGVAKKAHVKAVKVLRSNGSGS
MSDVVKGVEYAAESHLEQVSIAKKGKRKGFKGSTANMSLGGGKSPILDKAVNAAVDAGIH
FAVAAGNDNADSCNYSPAAAENAVTVGASTLSDERAYFSNYGKCNDIFAPGLNIQSTWIG
SKYAVNTISGTSMASPHVAGLLAYLLSLQPAKDSAFAVADISPKKLKANLISIATVGALT
DVPSNTANILAWNGGGESNYSAIVEKGGYKAAVRPTMLEEIESEAKVASKKVYSEGDELA
KKVAELTEKIEDLISGDLKDMFRDLKRE

>ABQ96644.1 Putative tropomyosin [Tyrophagus putrescentiae]
MEAIKKKMQAMKLEKDNAIDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLGNDLDQV
QESLLKANIQLVEKDRALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEKRMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELTGY

>CAK50834.1 Putative art v 2 allergen [Artemisia vulgaris]
MGHLGNFWLVLAISFAILHLSHAHETYGEPGNTPDDYVHAHNCIRRVLGMKPLCWDEIGK
VAQAWAETRTPDCSLIHSDRCGENMAQGAINGSMAVQLWLDERLDYDYNENKCIKMCGHY
TQIVWANSERVGCGRALCSNGWAYIIVCNYDPPGNVVGQKPY

>ABR21771.1 Putative conglutin beta [Lupinus angustifolius]
EERQEEERERRREPCREREQEQQPQHGRREEEEEEEEWQPRRLRPQSRKEEREQEQGSSS

SSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRRQRNPYHFSSERFQTRYRNRNGQIRV
LERFDQRTNRLENLQNYRIVEFQSNPNTLILPKHSDADYILVVLNGRATITIVNPDKRQA
YNLEYGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPSNFYDFYPSSTKDQQSYFSG
FSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRGQEQSYQDEGVIVRVSKEQIQELRK
HAQSSSRKGKPSESGPFNLRSNESIYSNKFGNFYEITPERNPQVQDLDISLTFTEINEGA
LLLPHYNSKAIFIVVVDEGEGNYELVGIRDQQRQQDEQEEEEEEVRRYSARLSEGDIFVI
PAGYPISVNASSNLRLLGFGINANENQRNFLAGSEDNVISQLDREVKELTFPGSAQDVER
LIKNQQQSYFANAQPQQKQQREKEGRRGRRSLISSILSTLY

>ABR21772.1 Putative conglutin beta [Lupinus angustifolius]
MAKMRVRLPMLILLLGVVFLLAASIGIAYGEKDFTKNPPKEREEEEHEPRQQPRPRQQEE
QEREHRREEKHDGEPSRGRSQSEESQEEEHERRREHHREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQGSSSGSQRGSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPDKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGKLYDFYPSTTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENEKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINELWLTKEKEIMN

>ABR29644.1 Putative manganese superoxide dismutase-like protein [Pistacia vera]
MALLSYVTRKTLTESLRLGLKSHVRGLQTFTLPDLPYEYGALEPAISSEIMQLHHQKHHQ
TYITNYNKALEQLDQAINKGDASAVVKLQSAIKFNGGGHINHSIFWKNLTPVSEGGGEPP
HGSLGWAIDTNFGSMEALIQRMNAEGAALQGSGWVWLGLDKESKKLVVETTANQDPLVTK
GPSLVPLLGIDVWEHAYYLQYKNVRPDYLKNIWKVINWKYAGELYQKECP

>ABS12233.1 Putative tropomyosin [Scylla serrata]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>ABS12234.1 Putative tropomyosin [Portunus trituberculatus]
MDAIKKKMQAMKLEKDNAMDRANTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>ABS29033.1 Putative Alt a 1 major allergen [Stemphylium sp. CID1012]
LAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNSLSFNIKATNKGTLDFTC
SAQADKLEDDKFYSCGENSFMSFAFQSDRNGLLFRQDVSDEITYVATATLPNYCHAGGNG
PKDFVCQGVSDAYFTLV

>ABS58503.1 Putative serine proteinase inhibitor-like allergen [Triticum aestivum]
MSPVVKKPEGGNTDTGDHHNQKTEWPELVGKSVEEAKKVIMQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLDKIAQVPRVG

>BAF75681.1 Putative SXP/RAL-2 family protein 2 isoform 1 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75704.1 Putative SXP/RAL-2 family protein 2 isoform 2 [Anisakis simplex]

MRVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75705.1 Putative SXP/RAL-2 family protein 2 isoform 3 [Anisakis simplex]
MKVLFFVAAVVADSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQATEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75706.1 Putative SXP/RAL-2 family protein 2 isoform 4 [Anisakis simplex]
MKVLFFVAAVVAVPLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75707.1 Putative SXP/RAL-2 family protein 2 isoform 5 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAYAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75708.1 Putative SXP/RAL-2 family protein 2 isoform 6 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFRDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75709.1 Putative SXP/RAL-2 family protein 2 isoform 7 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FANDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTATADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75710.1 Putative SXP/RAL-2 family protein 2 isoform 8 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNNHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75711.1 Putative SXP/RAL-2 family protein 2 isoform 9 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAESTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNQQGQS

>BAF75712.1 Putative SXP/RAL-2 family protein 2 isoform 10 [Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELDKLNQQGQS

>ABU42022.1 Putative 11S globulin [Pistacia vera]
MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFWDQNEEQLQCANVAVFRHTIQSRGLLVPSYNNAPELVYVVQGSGIHGAVFPGCP
ETFQEESQSQSRSQHSRSERSQQSGEQHQKVRHIREGDIIALPAGVAHWIYNNGQSKLVL
VALADVGNSENQLDQYLRKFVLGGSPQQEIQGGGQSWSQSRSSRKGQQSNNILSAFDEEI
LAQSLNIDTQLVKKLQREEKQRGIIVRVKEDLQVLSPQRQEKEYSDNGLEETFCTMTLKL

NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNGRMQIVSENGESVFDEEIREGQLVVVPQNFAVVKRASSDGFEWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSQRQRN

>ABU49605.1 Allergen Der f 1 allergen [Dermatophagoides farinae]
MKFVLAIVSLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEAN
KGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVVIM

>ABU53681.1 Putative tropomysin [Sinonovacula constricta]
MDAIKKKMQAMKIEKENALDKSEQLENKLKEIEDVKVKIEEDLTSLQKKYTNQENEYDKV
NEQFNESTVKLEASEKRVTECEDEIKGFTRRIQLLEDELERTQQKAEEAVLKLEEASKAA
DESERGRKVLESRSIADDDRIDKLEKDVKDSKYLAEEADRKYDEAARKLAITEVDLERAE
TRLEAAESKITELSEELQVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLEDELLQEKEKYKQISDELDQTFAELAGM

>BAF76430.1 Allergen tropomyosin [Euphausia superba]
MDAIKKKMQAMKMEKDSAMDRSDALEAQNKETNAKADKADDEVHNLQKRLQTLENDLDQV
SEALLKANTQLVEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSMLDEERMDALESQLKEARLLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKGITDELDQTFNELSGY

>BAF76431.1 Allergen tropomyosin [Euphausia pacifica]
MDAIKKKMQAMKMEKDSAMDRADALEAQNKETNARAEKADDEVHNLQKRLQTLENDLDQV
SEALLKANTQLVEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLLDEERMDALENQLKEARLLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKGITDELDQTFNELSGY

>ABU95411.1 Putative Sin a 3 allergen [Sinapis alba]
ALSCGTVNSNLAACIGYLTQNAPLPKGCCTGVTNLNNMARTTPDRQQACRCLVGAANSFP
SLNAARAAALPKACGVNIPYKISKSTNCNSVR

>ABU95412.1 Putative Sin a 4 allergen [Sinapis alba]
MSWQTYVDDHLMCDVEGNRLTAAAILGQDGSVWAQSANFPQLKPEEIKGINNDFAEPGTL
APTGLFIGGTKYMVIQGEPNAVIRGKKGAGGVTIKKTTQAFVFGIYEEPMTPGQCNMVVE
RLGDYLIEQGL

>ABU97466.1 Allergen group 10 allergen Blo t 10 [Blomia tropicalis]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKSRDANLRAEKSEEEVRALQKKIQQIENELDQV
QESLTQANTKLEEKEKSLQTAEGDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMRKMLEHRSITDEERMDGLESQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGETKIVELEEELRVVGNNLKSLEVSEEKAQQREEAYEQQIRMMTGKLKEAEARAE
FAERSVRKLQKEVDRLEDELVHEKEKYKSISDELDQTFAELTGY

>ABU97470.1 Putative arginine kinase [Dermatophagoides farinae]
MVDQATLSKLEAGFQKLQNAQDCHSLLKKYLTRDVLDQLKTKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFAALFDPIIDDYHKGFKPTDKHPQTDFGNIEHFVNVDPKNEYV
ISTRVRCGRSLKGYPFNPMLTEAQYKEMETKVKGQLATFEGELKGTYYPLLGMDKATQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EVFGRLVKAVKHIEQKIPFSRDDRLGYLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AARYNLQVRGTAGEHTESVGGIYDISNKRRMGLTEYQAVKEMQDGIIELIKMEKSL

>ABU97472.1 Putative profilin [Glycine max]

MSWQAYVDDHLLCEIEGNHLTHAAIIGQDGSVWAQSTNFPQFKPEEITAINNDFNEPGSL
APTGLYIGGTKYMVIQGEPGAVIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RLGDYLIDQGL

>ABU97479.1 Putative tropomyosin [Tyrophagus putrescentiae]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLKSEKTEEEVRALQKKIQQIENELDQV
QENLTQATTKLEEKEKALQTAEADVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMRKMLEHRSIPDEERMDGLESQLKEARLMAEDADRKYDEVARKLGMVEAHLERAE
ERAQLGIXIAKLERTARLRHT

>ABU97480.1 Putative allergen Tyr p 13 [Tyrophagus putrescentiae]
MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGDSYTIKTSSTLKNS
EIKFKLGEEFEEDRADGKKVQTSVTKEGDNKLVQVQKGDKPVTIVREFSEEGLTVTATVN
GATSVRFYKRQ

>ABV55106.1 Putative Ani s 9 allergen precursor [Anisakis simplex]
MKLCILAVAVFVVAVSAQGPPPLPPFVANAPPAVQAEFRQLANGAPDKTEAEIEAQIEQW
VASKGGAVQAEFNKFKQMLEQGKARAEAAHQASLTRLSPAAKAADARLSAIASNRALKVG
EKQRQLAAAFQALDPAVKAELQKEMQG

>ABV66255.1 Allergen Der p 1 allergen [Dermatophagoides pteronyssinus]
TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQ
ELVDCASQHNGCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQI
YPQNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSN
AQGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>1A9V_A Allergen Chain A, Tertiary Structure Of The Major House Dust Mite
Allergen Der P 2, Nmr, 10 Structures [Dermatophagoides pteronyssinus]
SQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>1CQA_A Allergen Chain A, Birch Pollen Profilin [Betula pendula]
MSWQTYVDEHLMCDIDGQGEELAASAIVGHDGSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>ABW17159.1 Putative Ara h 7 allergen precursor [Arachis hypogaea]
MVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEKEQEQEQDEYPYIQRGSRGQRPGESDEDQEQRCCNELNRFQNNQRCMCQALQQIL
QNQSFRFQQDRSQLHQMERELRNLPQNCGFRSPSRCDLSSRTPY

>ABW23574.1 Putative 8S globulin alpha subunit [Vigna radiata]
MVRARIPLLLLLGILFLASLSVSFGIVHRENIDGAEVSVSRGKNNPFYFNSDRWFHTLFR
NQFGHLRVLQRFDQRSKQMQNLENYRVVELMSKPNTLLLPHHADADFLLVVLNGRAVLTL
VNPDGRDSNILEQGHAQKIPAGTTFFLVNPDDNENLRIIKLAVPVNNPHRFQDFFLSSTE
AQQSYLQGFSKNILEASFDSDIKEISRVLFGEEGQQQQQGQESQQEGVIVELKREQIREL
TKHAKSSSKKSLSSEDQPFNLRNQKPIYSNKLGRWFEITPEKNPQLRDLDMFIRSVDMKE
GSLLLPHYNSKAIVILVINEGKANIELVGQREQQKQQEEQEESWEVQRYRAELSEDDVFI
IPATYPVAINATSNLNFFAFGINAENNQRNFLAGEKDNVISEIPTEVLDVTFPASGEKVK
KLIKKQSESQFVDAQPEQQEREEARKGGKGPFVY

>ABW34946.1 Allergen hevein [Hevea brasiliensis]
MNIFIVVLLCLTGVAIAEQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD
SGEGVGGGSASNVLATYHLYNSQDHGWDLNAASAYCSTWDANKPYSWRSKYGWTAFCGPV
GAHGQPSCGKCLSVTNTGTGAKTTVRIVDQCSNGGLDLDVNVFRQLDTDGKGYERGHLTV
NYQFVDCGDSFNPLFSVMKSSVIN

>P15476.2 Allergen RecName: Full=Patatin-B1; Flags: Precursor [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
FGPRYDGKYLLQVLQEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSIAAAPIYFPPHHFVTHTSNGATYEFNLVDGGVATVGDPALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEEAAKWGPLRWMLAIQQLTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALTGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSNRKKLRANKASY

>ABW86978.1 Putative 11S legumin protein [Carya illinoinensis]
MAKPILLSIYLCLIIVALFNGCLAQSGGRQQHKFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQLQCAGVAVVRRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGCPETFEES
QRQSQQGQRREFQQDRHQKIRHFREGDIIAFPAGVAHWCYNDGSSPVVAIFLLDTHNNAN
QLDQNPRNFYLAGNPDDEFRPQGQQEYEQHRRQQQHQQRRGEHGEQQRDLGNNVFSGFDA
EFLADAFNVDTETARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SESERRQSRRGGRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPILRW
LQLSAERGALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARDEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSRSRSSRSERRAEV

>ABW86979.1 Putative 11S legumin protein [Carya illinoinensis]
MAKPILLSIYLCLIIVALFNGCLAQSGGRQQHKFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQLQCAGVAVVRRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGCPETFEES
QRQSQQGQRREFQQDRHQKIRHFREGDIIAFPAGVAHWCYNDGSSPVVAIFLLDTHNNAN
QLDQNPRNFYLAGNPDDEFRPQGQQEYEQHRRQQQHQQRRGEHGEQQRDLGNNVFSGFDA
EFLADAFNVDTETARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SGSERRQSRRGGRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPILRW
LQLSAERGALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSRSRSSRSERRAEV

>1B6F_A Allergen Chain A, Birch Pollen Allergen Bet V 1 [Betula pendula]
GVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKELGETLLRAVESYLLAHSDAYN

>1H2O_A Allergen Chain A, Solution Structure Of The Major Cherry Allergen Pru Av 1 Mutant E45w [Prunus avium]
GVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAPQAIKHSEILWGDGGPGTIKKITFGE
GSQYGYVKHKIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIIKSTSHY
HTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>1W2Q_A Allergen Chain A, Allergen Arah6 From Peanut (Arachis Hypogaea) [Arachis hypogaea]
GPMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQEQYDSYDIRSTRSSDQQQRC
CDELNEMENTQGCMCEALQQIMENQCDRLQDRQMVQQFKRELMSLPQQCNFRAPQRCDLD
VSGGRCS

>ABW98943.1 Allergen alpha S1 casein [Bos taurus]
VSAALARPKHPIKHQGLPQEVLNENLLRFFVAPFPEVFGKEKVNELSKDIGSESTEDQAM
EDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPN
SAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYYVPLGTQYT
DAPSFSDIPNPIGSENSEKTTMPLW

>ABW98945.1 Allergen alpha S1 casein [Bos taurus]
FSEVFGKEKVNELSKDIGSESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVP
SERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYP

ELFRQFYQLDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>ABW98953.1 Allergen alpha S1 casein [Bos taurus]
IVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQ
QKEPMIGVNQELAYFYPELFXQFYQPDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSEN
SEKTTMPLW

>2JMH_A Allergen Chain A, Nmr Solution Structure Of Blo T 5, A Major Mite Allergen From Blomia Tropicalis [Blomia tropicalis]
GSQEHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQLDELNENKSKELQEKIIRE
LDVVCAMIEGAQGALERELKRTDLNILERFNYEEAQTLSKILLKDLKETEQKVKDIQTQ

>ABX26131.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNIAVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX26132.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGLTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAAINIVDKQIPLTGPHSIIGRAVVVHSDPDDLGRG
CHELSKSTGNAGGRVACGIIGLQG

>ABX26134.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHEQSKSTGNAGGRVACGIIGLQG

>ABX26138.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVNALGATTNGCMSTG
PHFDPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX26139.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVFNSSEGVTGTVYFTQEGDGLTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGDAGGRVACGIIGLQG

>ABX26140.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVTCGIIGLQG

>ABX26141.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVAGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHAHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX26143.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDRQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX26145.1 Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVRALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX26147.1 Putative allergen Ole e 5 [Olea europaea]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVNALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54842.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54844.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDATNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54849.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDITNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54855.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAISIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRSGHELSKSTGNAGGRVACGIIGLQG

>ABX54859.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVAGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54862.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDFGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54864.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVINSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAAINIVDKQIPLTGPHSIIGRAVVVHSDPDDLGRG
GHELSKSTGNAGGRVACGIIGLQG

>ABX54866.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEQGAPGDENRHAGVLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54869.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHVLSKSTGNAGGRVACGIIGLQG

>ABX54876.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQKGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFLPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX54877.1 Putative Ole e 5 olive pollen allergen [Olea europaea]
MVKAVTVFNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELSKSTGNAGGRVACGIIGLQG

>ABX56711.1 Putative LTP isoallergen 1 precursor [Arachis hypogaea]
MASLKFAFVMLVCMAMVGAPMVNAISCGQVNSALAPCIPFLTKGGAPPPACCSGVRGLLG
ALRTTADRQAACNCLKAAAGSLRGLNQGNAAALPGRCGVSIPYKISTSTNCATIKF

>ABX57814.1 Putative delta class glutathione S-transferase [Blattella germanica]
MTIDFYYLPGSAPCRSVLLAAKAFGVNLNLKVTNLMAGEHLTPEFLKMNPQHTIPTLNDN
GFCLWESRAILSYLADQYGKDDSLYPKDPKKRALVDQRLYFDLGTLYQRFGDYYYPIMFA
KASPDAEKMKKLEEAYQFLDKFLEGQKFVAGNSLTIADIATIASVSTAAILGFDITRYPN
VNKWFENAKKVIPGYDELNHSGCLEFRKMWDNLTQK

>ABX75045.1 Putative LTP isoallergen 2 [Arachis hypogaea]
LSCGQVNSALAPCITFLTKGGVPSGPCCSGVRGLLGAAKTTADRQAACNCLKAAAGSLHG
LNQGNAAALPGRCGVSIPYKISTSTNCATIKF

>BAF95206.1 Allergen tropomyosin [Oratosquilla oratoria]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKAEEEVHNLQKRMQQLENDLDQV
QEQLLKANTQLEEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKQLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>ABY21305.1 Putative pollen allergen Pla o 1 [Platanus orientalis]
MKLSFSLCIFFLISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHSADLQGLGVISA
NLAIQQGSKIQTFIGRILKSKVDPALKKYLNDCVGLYADAKSSVQEAIADFKSKDYASAN
VKMSAALDDSVTCEDGFKEKKGIASPVTKENKDYVQLTAISLAITKLLGA

>ABY21306.1 Putative pollen allergen Pla o 2 [Platanus orientalis]
MRGVQSSGGTFNVNDYGAKGSGDISQAVMKAWEAACASPGPSTVLIPTGNYIMGEVLLEG
PCKGSKIGFQLDGVVKAPADVSAFKSEGWVVFNHVDGLTVSGKGTFDGQGQKAWAANNCD
KDENCNRPPMNIRFNFLKNAVVRDITSMNSKMFHINVLECDNISFQHVTISAPGTSINTD
GIHIGLSRGVTITDTNIATGDDCVSIGPGSQNVTVTKVNCGPGHGISVGSLGKYKDEKDV
RGITVTGCTFTGTSNGVRVKTWPDSPPGVATDMAFEDLTMKNVQNPVILDQEYCPYGQCS
LKAPSRVKLSNIKFNNIRGTSSGPDAIVIACSHGFPCSNLEIGEINLALHAAGAPANSTC
TNAKPIFSGKQVPAIKCA

>ABY28115.1 Putative Der f 3 allergen precursor [Dermatophagoides farinae]
MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQSAKKLSIRNNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKT
PTTLDQTNAKPVPLPAQGSDVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDSGGPVVDIATKQIVGIVSWGYGCARKGYP
GVYTRVGNFVDWIESKRSQ

>ABY53034.1 Allergen Der p 2 allergen [Dermatophagoides pteronyssinus]
MYKILCLSLLVAAVARDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEADFEAN
QNRKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

>CAK93713.1 Allergen profilin [Malus x domestica]
MSWQTYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGVVIRGKKGPGGVTVKKSTMALLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>CAK93753.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNSLTAAAILGQDGSVWAQSATFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTPGQCNIVVE

RLGDYLIEQGL

>CAK93757.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNSLTAAAILGQGGSVWAQSATFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTPGQCNIVVE
RLGDYLIEQGL

>A2VBC4.1 Putative Venom phospholipase A1 precursor (Allergen Poly p 1) [Polybia paulista]
MNFKYSILFICFGTLDRGLIPECPFNEYDILFFVYTRQQRDGIVLTEETLQNYDLFKKST
ISRQVVFIDHGFLSNGNNENFIAMAKALIEKDNFLVISVDWKKGACNAFASTLDYLGYST
AVGNTRHVGKYVADFTKLLVEQYKVSMSNIRLIGHSLGAHTSGFAGKEVQELKLNKYSNI
DGLDPAGPSFDSNDCPERLCETDAEYVQIIHTSNILGVYSKIGTVDFYMNYGSHQPGCGR
FFSPSCSHTKAVKYLTECIKHECCLIGTPWKKYFSTPKPISQCTKDTCVCVGLNAKSYPA
RGSFYVPVEATAPYCHNEGIKL

>2JON_A Allergen Chain A, Solution Structure Of The C-Terminal Domain Ole E 9 [Olea europaea]
ATPTPTPKAAGSWCVPKPGVSDDQLTGNINYACSQGIDCGPIQPGGACFEPNTVKAHAAY
VMNLYYQHAGRNSWNCDFSQTATLTNTNPSYGACNFPSGSN

>ABZ81040.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN

>ABZ81041.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSVVKISSK
FHAKGDHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN

>ABZ81042.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEKMKGAKEMAEKLLRAVESYLLAHTAEYN

>ABZ81043.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN

>ABZ81044.1 Allergen pollen allergen Car b 1 isoform [Carpinus betulus]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGIPFKFVKERVDEVDNANFKYSYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN

>ABZ81045.1 Allergen pollen allergen Que a 1 isoform [Quercus alba]
MGVFTHESQETSVIAPARLFKALFLDSDNLIQKVLPQAIKSTEIIEGNGGPGTIKKITFG
EASKFKYAKHRIDALDPENCTYSFSVIEGDALTVMESVSTEIKCVASPDGGSIMKSTTKY
QTKGDFQLKEEQIQAAIEKAAGLLKAVEAYLVAHPDLYK

>ABZ81047.1 Allergen pollen allergen Que a 1 isoform [Quercus alba]
MGVFTHESQETSVIAPARLFKALFLDSDNLIQKVLPQAIKSTEIIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTYSFSVIEGDALFDKLENVSTETKIVASPDGGSIAKSTSK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDLYK

>ABZ81991.1 Allergen Tyr p 3 [Tyrophagus putrescentiae]
MKILLFLCFLVSVAFAKPPTIQLKSNTKSQNGFIVGGTEAVDGDAPHQVSLQHTSHFCGG

SIISERWILTAAHCIDADDLSNPGGMSVRYNTLNLKSGTLVKVKSIKVHEQYSNVTSDND
IALLETVASMNLNQTNAVAAKLPAKGNDPQDGDLFLSGWGTLHSGDTTIPTNLQKVTVPL
TNRSVCAEAYTGIVNITENMFCAGKMGIGGVDSCQGDSGGGAMLNKELVGVVSFGVGCGD
PKYPGVYTRVSQYLDWIELSAKSSATTLVAVNITLFLTLFIGAIW

>ACA00159.1 Allergen dipeptidylpeptidase IV preproprotein [Vespula vulgaris]
MVPLRSFVLLNSLFLVLLAARTVVTRVIDKDNSDRIVKTQNDQNLSKVPFNLEETYTADF
LAYVFNGTWTSDTTIVYTDRRTGDILQFDVIKQRSTLIVDSSVMDAYIVSNYVLSPKGRY
LLIGYDLKKGYRYSTFMRYVIYDIEHRAYHKIGNDMHIALAKWAPLTDDLIYILDNDIYY
MRFSNNGFNDVQRVTYDGISGIVYNGVPDWVYEEEVLQDSSAIWFSPDGNHLAYASFDDR
NVQEILYLHYGEPGNLDDQYPTEVKIKYPKVGTLNPVVSLTLVDLHDPTLNKIDLKAPHY
AVGTDNLLYNVQWKDFDHVVVTWSNRVQNKTEIVWYNMYGEIVKTLHVVEHKGWLDIKHL
FFYKGSVYIRKLQPSGTKAGRFHHVTRYDETFKQSPTQMDLTPDAIEVQNICTIDQSNGR
IYYLASGLGKPSQKNLYSVPADGSEKPTCISCNVLTPEGNVCTYADAIFSPLGQYYVLVC
HGPDPAFVSIFNNAHQKVYSWENNLSLRKKLAKRHLPLVKDLDVRANGYESKVRLFLPHN
FDESKSYPMLVNVYAGPNTLKIIDAASYGHQVYMTTNRSVIYAYIDGRGSSNKGSKMLFS
IYRKLGTVEVEDQITVTRQLQEMFPWIDSKRTGVWGWSYGGFSTAMILAKDTSFVFKCGI
AIAPVSSWIYYDSIYTERFMGFPTPEDNLSGYNETDVSRRVEDIRGKKFMLIHGSGDDNV
HYQQSLALAKALEKADVMFEQITYTDEAHALFGVLPHLYHTMDRFWSDCFSLSHAH

>ACA00204.1 Putative arginine kinase [Periplaneta americana]
MVDAAVLEKLEAGFAKLAASDSKSLLKKYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAEPKGQFYLLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVTAVNDIEKRIPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>ACA23876.1 Allergen Pas n 1 allergen precursor [Paspalum notatum]
MGSLAKIVAVAAVLAALVAGGSCGPPKVPPGPNITTNYNGKWLPAKATWYGQPNGAGPDD
NGGACGIKNVNLPPYNGFTACGNPPIFKDGKGCGSCYEIRCNKPECSGQPVTVFITDMNY
EPIAPYHFDLSGKAFGAMAKPGLNDKLRHYGIFDLEFRRVRCKYQGGQKIVFHVEKGSNP
NYLAMLVKFVADDGDIVLMELKEKSSDWKPMKLSWGAIWRMDTPKALVPPFSIRLTSESG
KKVIAQDVIPVNWKPDTVYNSNVQF

>ACA79908.1 Allergen Ara h 8 allergen isoform 3 [Arachis hypogaea]
MGVFTFEDEITSTLPPAKLYNAMKDADSITPKIIDDVKSVEIVEGNGGPGTIKKLTIVED
GETKFILHKVEAIDEANYAYNYSVVGGVALPPTAEKITFETKLVEGPNGGSIGKLSVKFH
SKGEAKPEEEDMKKGKAKGEALFKAIEGYVLANPTQY

>ACA96507.1 Putative Pac c 3 allergen [Pachycondyla chinensis]
TEGGAVHTMCQYTSPQPSPNCGTYSNAHITAADKETILKVHNDERQKVKAGQETRGNPGP
QPAASNMPDLTWDNELAAIAQRWVNQCKIGHDGCRNVERYQVGQNIAMSGSTAKGPCNMN
NLVQMWINEVNALNAADVSSMPSDGNYFMKIGHYTQLVWGKTTKVGCGIIQFLDGKFYKC
YLACNYGPAGNMFGAPIYQ

>ACB05815.1 Putative conglutin beta [Lupinus angustifolius]
MAKMRVRLPMLILLLGVVFLLAASIGIAYGEKDFTKNPPKEREEEEHEPRQQPRPRQQEE
QEREHRREEKHDGEPSRGRSQSEESQEEEHERRREHHREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQGSSSGSQRGGGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPDKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGKLYDFYPSTTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENEKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINEGALLLPHYNSKAIFIVVVDEGEGNYELVGIRDQQRQ
QDEQEEEYEQGEEEVRRYSDKLSKGDVFIIPAGHPLSINASSNLRLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGRR

GPISSILNALY

>ACB38288.1 Putative Lit v 1 tropomyosin [Litopenaeus vannamei]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>ACB45874.1 Allergen pathogen-related protein 1 [Cucumis melo var. inodorus]
MLPFSFAQDSIKDFVDAHNAARAQVGVGPVHWNKTVADYAHQYANKRIKDCNLVHSKGPY
GENIAWGSRNLAGTVAVRMWVSEKQFYNYDTNSCVRGKMCGHYTQVVWRNSVRIGCAKVR
CKSGGTFITCNYDPRGNIRGQRPYGEGTLQL

>ACB46292.1 Allergen dust mite allergen precursor [Dermatophagoides pteronyssinus]
MKFNIIIVFISLAILVHSSYAANDNDDDPTTTVHPTTTEQPDDKFECPSRFGYFADPKDP
HKFYICSNWEAVHKDCPGNTRWNEDEETCT

>ACB55491.1 Putative seed maturation-like protein precursor [Sesamum indicum]
MQFFSSRLLGSSRVLATTLSHFHYNPCTNKAHFTKAQLLPAAPYSNKLVIRSMASSGQQF
PPQKQEGQPGKEHIMDPTPQATTPEYKPANKLVGKVALVTGGDSGIGRAVGHCFALEGAT
VAFTYVKGQEDKDANDTLGMLMKAKHADAKDPIAIPTDLGYDENCRRVVEEVVNNYGRID
ILVNNAAEQYEASTVEEIDEPRLERVFRTNIFSYFFTSRHALKHMKEGSSIINTTSVNAY
KGNAKLLDYTATKGAIVAFTRGLALQMVEKGIRVNGVAPGPIWTPLIPASFTEDENAKFG
SQTPMKRAGQPHEVAPSYVFLASNIDSSYITGQVLHPNGGTIVNG

>ACC76803.1 Putative Lit v 3 allergen myosin light chain [Litopenaeus vannamei]
MSRKSGSRSSSKRSKKSGGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFTMLLNMFAERQTGESDDDDVVAKAFLAFADEEGNID
CDTFRHALMTWGDKFSSQEADDALDQMDIDDGGKIDVQGVIQMLTAGGGDDAAAEEA

>NP_001119715.1 Allergen venom dipeptidyl peptidase 4 precursor [Apis mellifera]
MEVLVQLALLLVVHGSLVVLVAGKSVPRVIDQDLERYEPLEEEDHRGARVPFNLEETYDQ
SFRANSFNGTWKTDREILYSDNYVGDIRLFDVTTGSGTVLLDSSVTADFDKASVMFSFDN
SHVAIGHDYVNGFRYSIHQKCTVYNIKSRTFTDIANGDRIPLFKWSPTRNALIYVHKNDI
YYQVFFEGGSDTRRITNTGVPDIVFNGIPDWVYEEEVLGSPVAFWISPDGRHLAFATFND
TNVRDIVISKYGSPGNSRDQYPNEIRIKYPKAGTTNPFVSLSVIDLHDPSSKLIDLPPPV
DVVGADNVLYTANWRRDGEIVATWTNRVQNKAQLVLYDTKGNANNIYYEEETEGWLRIQP
PLYHDRYVIVAKLQDSGTKAGRFLHATRLEYRNGALVDETDLTPGTCEVISLLLVDHARA
RLYYLGTELGKPSHKNLYSVQLSGNEPPVCLSCDVLTPEGNRCTYAYAYFSTNGSHYALY
CAGPDPVFIAIVNANHRQISIWEENRSLRRKLAARTQPIVKNFNVNANGYTNKVKLYLPP
DFDETKKYPLLITVYAGPNTIRITEEATYGFESYIVTNRSVIYGRIDGRGSAYKGSKMLF
EIYRRLGTVEIEDQIIITRTLQEKYSWIDSNRTGIWGWSYGGFSAAMVLATDAESVFKCG
ISVAPVTSWIYYDSLYTERFMGLPTPEDNQSGYNDTDVSRRVEGMRGKKYMLIHGTADDN
VHYQQTMMLNKALVNSDIMFQQQTYTDEAHALGNVFPHLYHTTDRFWANCLGYSH

>ACD36974.1 Putative Gly m Bd 28K allergen [Glycine max]
LDSNLIIFIRRGEAKLGFIYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILETAFNESRTVVEEIFSKELDGPIMFV
DDSHVPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSWRKLLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDVFVVPRYFPFCQVASRDGPLEFF
GFSTSARKNKPQFLAGAASLLRTLMGPELSAAFGVSEDTLRRAVDAQHEAVILPSAWAAP

PENAGKLKMEEEP

>ACD36975.1 Putative Gly m Bd 28K allergen [Glycine max]
LDSNLIIFIRRGEAKLGFIYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILETAFNESRTVVEEIFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSWRKLLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDVFVVPRYFPFCQVASRDGPLEFF
GFSTSARKNKPQFLAGAASLLRTLMGPELSAAFGVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGKLKMEEEP

>ACD36976.1 Putative Gly m Bd 28K allergen [Glycine max]
LDSNLIIFIRRGEAKLGFIYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFNIGGGANSHSVLSGFEPAILETAFNESRTVVEETFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSWRKLLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDVFVVPRYFPFCQVASRDGPLEFF
GFSTSARKNKPQFLAGAASLLRTLMGPELSAAFGVSEDTLRRAVDAQHAAVILPSAWAAP
PENAGKLKMEEEP

>ACD36978.1 Putative Gly m Bd 28K allergen [Glycine max]
VLCHGVATTTMAFHDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLKSHGGRIFYRHMH
IGFISMEPKSLFVPQYLDSNLIIFIRRGEAKLGFIYDDELAERRLKTGDLYMIPSGSAFY
LVNIGEGQRLHVICSIDPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILETAFNESRTV
VEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQEEDEEEKQTSRSW
RKLLETVFGKVNEKIENKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLSEPDI
GVLLVKLSAGSMLAPHVNPISDEYTIVLSGYGELHIGYPNGSKAMKTKIKQGDVFVVPRY
FPFCQVASRDGPLEFFGFSTSARKNKPQFLAGAASLLRTLMGPELSAAFGVSEDTLRRAV
DAQHEAVILPSAWAAPRKMQEAEMEESQMLLKLCQ

>ACD50950.1 Putative Der p 20 allergen [Dermatophagoides pteronyssinus]
MVDPATLSKLEAGFQKLQNAQDCHSLLKKYLTRDVFDQLKNKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFAALFDPIIDDYHKGFKPTDKHPKTDFGNIENFVNVDPKNEYV
LSTRVRCGRSLNGYPFNPMLTEAQYKEMETKVKGQLATFEGELKGTYYPLLGMDKATQQQ
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EVYGRLVKAVKHIEQKIPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AGRYNLQVRGTAGEHTESVGGIYDISNKRRMGLTEYQAVKEMQDGILELIKMEKSM

>ACD65080.1 Putative serine/threonine protein kinase [Forcipomyia taiwana]
GTRVDEIKGHPFFREIDWTKELRNQKAPYEPKIKYPTDTSNFDPIDPDKLHDSSNADDYM
IEEFFGSGKPCHHGFFEFTFRRFFDDDADCKISLNHGNSGDRNDNNNSNDNQSGAIYV

>ACD65081.1 Putative eukaryotic translation initiation factor [Forcipomyia taiwana]
MKPLMMQGHERAITQIKYNREGDLLFSCAKDHKPNVWFSLNGERLGTFNGHAGAVWCVDV
DWTTTKLITGSGDMSVRLWDVETGTSVACIPCKSSARTVGFSFSGNQAAYSTDRAMGHIC
ELFVIDSREPDSSLNDGDAILKIPISQSKITAMIWGTLDETIITGHENGQITLWDLRIGR
EINSVNDHMGAINDLQLSKDGTMFVSSSRDTTAKLFDSDSLMCLKTYKTERPVNSAAISP
LLEHVVLGGGQDAMEVTTTSARQGKFDSRFFHLIYEEEFARVKGHFGPINSLAFHPDGRS
YATGGEDGFVRLQTFDSSYYEYIFD

>CAQ55938.1 Allergen pollen allergen Phl p 4.0102 [Phleum pratense]
YYPTPLAKEDFLRCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYYAIHKASTVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLMIRVIAQGPTATFEAMYLGTCQTLTPMMGSKFPELGMNAS

HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKGK
VDPTDYFRNEQSIPPLIQKY

>CAQ55939.1 Allergen pollen allergen Phl p 4.0202 [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHTVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLLNRNNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKGK
VDPTDYFRNEQSIPPLIKKY

>CAQ55940.1 Allergen pollen allergen Phl p 4.0203 [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHSVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLLNRNNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKGK
VDPTDYFRNEQSIPPLIKKY

>CAQ55941.1 Allergen pollen allergen Phl p 4.0204 [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHTVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLLNRNNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKGK
VDPTDYFRNEQSIPPLIKKY

>ACE07186.1 Allergen Art v 3.0201 allergen precursor [Artemisia vulgaris]
MKMMKFFCAMVVCMVVSSSYAEALKCSDVSNKISACLSYLKQGGEVPADCCTGVKGLNDA
AKTTPDRQTACNCLKTTFKSNKDFKSDFAASLPSKCGVNIPYKISLETDCNKVK

>ACE07187.1 Allergen Art v 3 allergen precursor [Artemisia vulgaris]
MAMKMMKFFCAMVVCMVLSSSYAEALTCSDVSNKITPCLNYLKQGGEVPADCCTGVKGLN
DAAKTTPDRQTACNCLKTSFKSNKDLKSDFAASLPSKCGVNIPYKISLETDCNKVK

>ACE07188.1 Allergen Art v 3.0301 allergen precursor [Artemisia vulgaris]
MAIKMMKVFCIMVVCMVVSTSYAESALTCSDVSTKISPCLSYLKKGGEVPADCCTGVKGL
NDATKTTPDRQTACNCLKASFKSNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK

>ACE07189.1 Allergen Art v 3 allergen precursor [Artemisia vulgaris]
MAIKMMKVFCVMVVCMVVSSSYAEAALTCSDVSTKISPCLNYLKKGGEVPADCCTGVKGL
NDATKTTPDRQTACNCLKASFKSNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK

>P00785.4 Allergen RecName: Full=Actinidain; Short=Actinidin; AltName: Allergen=Act c 1; Flags: Precursor [Actinidia chinensis]

MGLPKSFVSMSLLFFSTLLILSLAFNAKNLTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLRFTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGECNVDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKQYSSGIFTGPCGTAVDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNHPKPYSSLINPP
AFSMSKDGPVGVDDGQRYSA

>ACE80939.1 Allergen putative allergen Pru du 1.01 [Prunus dulcis x Prunus persica]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENHSYSYTLTEGDALGDNLEKISYETKLVASPSGGSIIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>ACE80955.1 Allergen putative allergen Pru p 2.02 [Prunus dulcis x Prunus persica]
MMKTLVAVLSLSLTLLSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFELASQASFQ
LDTPVPWSGRFWARTRCSTDASGKFVCETADCDSGQLMCNGKTGIPPATLAEFTIAAGGG
QDFYDVSLVDGFNLPMSVTPQGGTGTCKMGSCAANVNLVCPSELQKIGSDGSVVACLSAC
VKFGEPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYSYAFDDNKGLFTCSGGPNYLITF
CP

>ACE80956.1 Allergen putative allergen Pru du 2.01A [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFELATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMAVAPQGGTGECKASTCPADVNKVCPAQLQVKGSDGSVIAC
KSACLAFNQPQYCCTPPNDKPETCPPTDYSKIFKTQCPQAYSYAYDDKSSTFTCSASPDY
LITFCP

>ACE80957.1 Allergen putative allergen Pru p 2.01A [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFELATG
ISNSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVSLVDGFNLPMSVAPQGGTGECKASTCPADINKVCPAELQVKGSDGSVIAC
KSACLALNQPQYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSYAYDDKSSTFTCSGRPDY
LITFCP

>ACE80958.1 Allergen putative allergen Pru du 2.01B [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMSVAPQGGTGKCKASTCPANVNAACPAQLQVKGSDGKVIAC
KSACLAFNQPKYCCTPPNDKPATCPPTDYSRFFKTQCPQAYSYAYDDKSSTFTCNGRPDY
LITFCP

>ACE80959.1 Allergen putative allergen Pru p 2.01B [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWSGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMSVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDGSVIAC
KSACLAFNQPKYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSYAYDDKSSTFTCSGRPDY
LITFCP

>ACE80972.1 Allergen putative allergen Pru du 4.02 [Prunus dulcis x Prunus persica]
MSWQTYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTVKKSTLALLIGIYDEPMTPGQCNMIVE

RLGDYLVEQGL

>ACE80974.1 Allergen putative allergen Pru du 2.02 [Prunus dulcis]
MMKTLVVVLSLSLTLLSFGGAHAATISFKNNCPYTVWPASFGNPQLSTTGFELPSQASFP
LDTPAPWSGRFWARTGCTDASGKFVCETADCDSGQLMCNGKTGIPPATLAEFTIAAGGGQ
DYYDVSLVDGFNLRMSVTPQGGTGTCKTGSCAANVNAVCPSELQKIGSDGSVVACLSACV
KFNQPQYCCTPPQETKEKCPPTNYSQIFHDQCPDAYSYAYDDNKGLFTCSGGPNYLITFC
P

>ACE82289.1 Allergen glutathione transferase [Triticum aestivum]
MAGEKGLVLLDFWVSPFGQRVRIALAEKGLPYEYAEEDLMAGKSDRLLRANPVHKKIPVL
LHDGRPVNESLIILQYLEDAFPDAPALLPSDPYARAQARFWADYVDKKVYDCGSRLWKLK
GEPQAQARAEMLDILKTLDGALGDKPFFGGDKFGFVDAAFAPFTAWFHSYERYGEFSLPE
VAPKIAAWAKRCGERESVAKSLYSPDKVYDFIGLLKKKYGIE

>ACE82290.1 Allergen peroxiredoxin [Triticum aestivum]
MPGLTIGDTVPNLELDSTHGKIRIHDYVGNGYVILFSHPGDFTPVCTTELAAMANYAKEF
EKRGVKLLGISCDDVQSHKEWTKDIEAYKPGSRVTYPIMADPDRSAIKQLNMVDPDEKDG
QGQLPSRTLHIVGPDKVVKLSFLYPSCTGRNMDEVVRAVDSLLTAAKHKVATPANWKPGE
CVVIAPGVSDEEAKKMFPQGFETADLPSKKGYLRFTKV

>ACE82291.1 Putative profilin [Triticum aestivum]
MSWQTYVDDHLCCEIDGQHLTSAAILGHDGSVWAESPNFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYPVEQGF

>CAQ68366.1 Putative parvalbumin [Sardinops sagax]
MALAGLVKEADITAALEACKAADSFDHKAFFHKVGMSGKSADELKKAFAIIDQDKSGFIE
EEELKLFLQNFCKKARALTDGETKKFLKAGDNVGDGKIGIDEFNHLVKH

>ACF19589.1 Allergen subtilisin-like serine protease [Cochliobolus lunatus]
MKYSLIAALPALAAASPTFSTETIHKQSAPVLSSTSAKEVPNSYMVVFKKHVKDASKHHD
WVQSVHSKNTQERMELRKRSSDLPVSNEVFAGLKHTYELSGLKGYSGHFDDETLEAIRNH
PDVDYIERDSEVRILGGDEPETENNSPWGLARISHRDSLSFGTWNKYLYAADGGEGVDVY
VIDTGTNVDHVDFEGRAKWGKTIPNGDADEDGNGHGTHCSGTVAGKKYGVAKKAHVYAVK
VLRSNGSGTMSDVVKGVEFAAKSHSEAVSAAKNGKKKGFKGSTANMSLGGGKSTTLDMAV
NAAVDAGLHFAVAAGNDNADSCNYSPAAAENAVTVGASTLLDERAYFSNYGKCNDIFAPG
LNILSTWIGSKHATNTISGTSMASPHIAGLLAYMLSLQPAKDSAYAVADITPKKLKANLI
AIGTVGALSDVPSNTANVLAWNGGGSSNYTDIIEKGGYTVKKAASKEEEKESEFRITIPS
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]
MAGRPGYSEVIFLYVVSVAVIARATDNMPVNKDVSKLFPLTLIHINDLHARFEETNMKSN
VCTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGTLWYNLLRWNVTADFIKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDNIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGPYPTLVESKNKRKIPIVQAKS
FGKYVGRLTLYFDEEGEVKNWEGYPVFIDHKVQQDPQILKDLVPWRAKVEAIGSTVVGET
MIELDRDSCRDQECTLGVLYADGFADQYTNDTFRPFAIIQAGNFRNPIKVGKITNGDIIE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPVRSRVKKIE
VMDYTNPKSDKLKPLDKEAEYYIVVPSYLADGKDGFSAMKRATARRTGPLDSDVFKNYVE
KIKKVDNLKLGRVIVCKGSKCT

>A5HII1.1 Allergen RecName: Full=Actinidain; Short=Actinidin; AltName: Full=Allergen Act d 1; AltName: Allergen=Act d 1; Flags: Precursor [Actinidia deliciosa]
MGLPKSFVSMSLLFFSTLLILSLAFNAKNLTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGECNLDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNHPKPYSSLINPP
AFSMSKDGPVGVDDGQRYSA

>ACF53836.1 Allergen Bla g 4 isoallergen 1 [Blattella germanica]
MCITGVILFAVLAVCATDTLANEDCFRHESLVPNLDYKKFIGTWVIAAGTSEALTQYKCW
NDLFFFNNALVSKYTDSKGKNRTTIRGRTKFEGNKFTIDYDDEGKAFSAPYSVLATDYDN
YAIVEGCPAAANGHVIYVQLRLTLRSFHPEQGDKEALQHYTVHQVNQHKKAIEEDLKHFN
LKYEDLHSTCH

>ACF53837.1 Allergen Bla g 4 isoallergen 2 [Blattella germanica]
MCITGVILFAVLALCATDTLADEDCFRHESLVPNLDYERFRGMWVIVAGTSEALTQYKCW
IDWFSYDDALVSKYTDSKQGNKILIGKIKFEGNKFTIDYDDEGKAFSAPYSVLATDYDNY
AIVEGCPAAANGHVIYVQLRLTWRRFHPKLGDKEMIQHYTLDQVNQHKKAIEEDLKHFNL
KYEDLHSTCH

>ACG58378.1 Allergen Der p 1 allergen precursor [Dermatophagoides pteronyssinus]
MKITLAIASLLALSAVYARPSSIKTFEEYKKAFNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSDLSLDEFKNRFLMSAEAFEHLKTQSDLNAETNACNINGNAPAEIDLRQMRTV
TPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEY
IQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNAQGVDYWIVRNSWDTNWGDNGYG
YFAANIDLMMIEEYPYVVIL

>ACG59280.1 Allergen major allergen beta-lactoglobulin [Bos taurus]
MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENSAEPEQSLVCQCLVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>ACG59281.1 Putative major allergen CM16 [Triticum aestivum]
MASESNCVLLLAAVLVSIFAAVAAIGNEDCTPWMSTLITPLPSCRDYVEQQACRIETPGS
PYLAKQQCCGELANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMDFVRILVTP
GYCNLTTVHNTPYCLAMEESQWS

>ACH70931.1 Allergen enolase 3-2 [Salmo salar]
MSITKIHAREILDSRGNPTVEVDLYTAKGRFRAAVPSGASTGVHEALELRDGDKSRYLGK
GTVKAVDHVNKDIAAKLIEKKFSVVDQEKIDHFMLELDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGHKDVILPCPAFNVINGGSHAGNKLAMQEFMILPIGASNFHE
AMRIGAEVYHNLKNVIKAKYGKDATNVGDEGGFAPNILENNEALELLKTAIEKAGYPDKI
IIGMDVAASEFYKAGKYDLDFKSPDDPARYITGDQLGDLYKSFIKGYPVQSIEDPFDQDD
WAAWTKFTAAVDIQVVGDDLTVTNPKRIQQAVEKKACNCLLLKVNQIGSVTESIKACKLA
QSNGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKDYRHPKIN

>ACH85188.1 Putative main allergen 15 kDa oleosin [Sesamum indicum]
MAEHYGQQQQTRAPHPQLQPRAQRVVKAATAVTAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLSWIYRYLTGKHPPGADQLESAKTKL
ASKAREMKDRAEQFSQQPVAGSQTS

>ACH91862.1 Allergen arachin Arah3 isoform [Arachis hypogaea]

MAKLLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR
RYQSQRPPRRLQEEDQSQQQQDSHQKVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRQSRRRSLPYSPYSPQSQPRQEEREFS
PRGQHSRRERAGQEEENEGGNIFSGFTPEFLAQAFQVDDRQIVQNLRGENESEEQGAIVT
VRGGLRILSPDRKRGADEEEEYDEDEYEYDEEDRRRGRGSRGSGNGIEETICTATVKKNI
GRNRSPDIYNPQAGSLKTANELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVDSNGNRVYDEELQEGHVLVVPQNFAVAGKSQSDNFEYVAFKTDSRPSIANL
AGENSVIDNLPEEVVANSYGLPREQARQLKNNNPFKFFVPPSQQSPRAVA

>CAP05019.1 Allergen calcium binding protein [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]
MKLPLLLAIVTTFSVVASTGPFDPEEMLFTFTRCMEDNLEDGPNRLPMLAKWKEWINEPV
DSPATQCFGKCVLVRTGLYDPVAQKFDASVIQEQFKAYPSLGEKSKVEAYANAVQQLPST
NNDCAAVFKAYDPVHKAHKDTSKNLFHGNKELTKGLYEKLGKDIRQKKQSYFEFCENKYY
PAGSDKRQQLCKIRQYTVLDDALFKEHTDCVMKGIRYITKNNELDAEEVKRDFMQVNKDT
KALEKVLNDCKSKEPSNAGEKSWHYYKCLVESSVKDDFKEAFDYREVRSQIYAFNLPKKQ
VYSKPAVQSQVMEIDGKQCPQ

>CAQ57979.1 Putative profilin [Triticum aestivum]
MSWKAYVDDHLCCEIDGQHLTSAAILGHDGSVWAQSPNFPQFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>ACI25605.1 Putative venom acid phosphatase [Apis mellifera]
MSVIAILAMVVGVQAELKQINVIFRHGDRIPDEKNEMYPKDPYLYYDFYPLERGELTNSG
KMREYQLGQFLRERYGDFLGDIYTEESVSALSSFYDRTKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRRYEDNIFLPEDCLLFTIEFDRVLESPRGKYEFSKYDKLKKKLEEWTG
KNITTPWDYYYIYHTLVAEQSYGLTLPSWTNNIFPRGELFDATVFTYNITNSTPLLKKLY
GGPLLRIFTKHMLDVVSGTQKKKRKIYLFSGHESNIAAVLHALQLYYPHVPEYSSSIIME
LHNIEGTHYVKIVYYLGIPSEAGELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFA
DESANNLSIEELDFVKLNLIRIAGTENK

>CAR82265.1 Allergen D-type LMW glutenin subunit [Triticum aestivum]
MARQLNPSNKELQSPQQSFSHQQQPFPQQPYPQQPYPSQQPYPSQQPFPTPQPQFPQQSQ
QPFTQPQQPTPLQPQQPFPQQPQQPQQPFPQPQQPFPWQPQQPFPQTQQSFPLQPQQPFP
QQPQQPFPQPQLQFPQQPEQIIPQQPQQPFLLESQQPFPQQPQQPFPQPQQLIPMQPQQP
FPQQSQQSQQPFPGPQQLFPELQQPIPQQPQQPFPLQPQQPFPQQSQQPFPQQPQQPCPL
QPQQPFPQQPQQPFPQQPQQPFPLQPQQPFPLRPQQPFSQQPQQSQQSFPQPQPQQPQQP
SILQPQQPFLQPQQQLSQQLEQTISQQPQQPFPQQPHQPQQPYPQQQPYGSSLTSIDGQ

>CAR82266.1 Allergen D-type LMW glutenin subunit [Triticum aestivum]
MGRLLSPRGKELHTPQEQFPQQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQEFPQQQQFPQQQIAQQPQQLPQQQFPI
PYPPQQSQEPSPYQQYPQQQPSGSDVISICGL

>CAR82267.1 Allergen D-type LMW glutenin subunit [Triticum aestivum]
MGRLLSPRGKELHTPQEQFPQQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQEFPQQQQFPQQQIAQQPQQLPQQQQIP

QQPQLFPQQQQFPQQQSPQQQQFPQQQFPQQQQLPQQQFPQPQQIPQQQQIPQQPQQFPQ
QQFPQQQQFPQQQEFPQQQFPQQQFHQQQLPQQQPSGSDVISICGL

>CAP17694.1 Putative parvalbumin [Lepidorhombus whiffiagonis]
MTFAGLDAAEIKAALDGCAAADSFDYKKFFGACGLAKKSAEEVKAAFNKIDQDESGFIEE
DELKLFLQNFSASARALTDKETANFLKAGDVDGDGKIGIEEFTDLVRSK

>ACI32128.1 Allergen tropomyosin [Dermatophagoides pteronyssinus]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKEKAPQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMEGLENQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFAELTGY

>ACI41244.1 Putative 2S albumin [Sesamum indicum]
MAKKLALAAVLLVAMVALASATTYTTTVTTTAIDDEANQQSQQCRQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQSLRDCCQQLGNVDERCRCEAIRQAVRQQQQEGGY
QEGQSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>ACI47547.1 Putative nonspecific lipid transfer protein [Juglans regia]
MTGSLVLKLSGMVLLCMVVAAPVAEAVITCGQVASSVGSCIGYLRGTVPTVPPSCCNGVK
SLNKAAATTADRQAACECLKKTSGSIPGLNPGLAAGLPGKCGVSVPYKISTSTNCKAVK

>ACI68103.1 Allergen Parvalbumin beta 1 [Salmo salar]
MACAHLCKEADIKTALEACKAADTFNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFCPKARELTDAETKAFLKAGDADGDGMIGIDEFAVLVKQ

>ACJ04729.1 Allergen ovomucoid [Gallus gallus]
MAMAGVFVLFSFVLCGFLPDAVFGAEVDCSRFPNATDMEGKDVLVCNKDLRPICGTDGVT
YTNDCLLCAYSVEFGTNISKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDKRHDGGCRKELAAVSVDCSEYPKPDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLTLSHFGKC

>ACJ23861.1 Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTHESQETSVIPPARLFKAFVLDSDNLIPKVLPQAIKSTEIIEGNGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKFVASPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>ACJ23862.1 Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTHESQETSVIPPARLFKAFVLDSDNLIPKVLPQAIKSTEIIEGDGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKFVASPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>ACJ23863.1 Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTHESQETSVIPPARLFKAFVLDSDNLIPKVLPQAIKSTEIIEGNGGPGTIKKITFG
EASKYKYSRHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKFVASPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>ACJ23864.1 Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYESETTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIIEGSGGPGTIKKITFG
EGSQFNYVKHRIDEIDNANFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAYH

>ACJ23865.1 Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYESETTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIIEGSGGPGTIKKITFG
EGSQFNYMKHRIDEIDNANFTYAYTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAYH

>ACJ23866.1 Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYESETTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIIEGSGGPGTIKKITFG
EGSQFNYVKHRIDEIDNTNFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAYH

>ACJ37389.1 Allergen Bla g 4 allergen [Blattella germanica]
VLALCATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDAL
VSKYTDSQGKNRTTIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYENYAIVEGCPAA
ANGHVIYVQLRMTLRRFHPKLGDKEMLQHYTLDQVNQNKKAIEEDLKHFNLKYEDLHSTC
H

>ACJ37391.1 Putative Per a 4 allergen variant 1 [Periplaneta americana]
AGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYDKYTLDENGVIQVTSVA
YTNSIRGFITSTGTVPSWTEDTFDIAYGDDETWSSTYFMVGTDYQTYSIVAGCLDNDYSR
HLYWIASHETSFDDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQYKS

>NP_001133181.1 Allergen fructose-bisphosphate aldolase A [Salmo salar]
MPHAFPFLTPDQKKELSDIALKIVAKGKGILAADESTGSVAKRFQSINTENTEENRRLYR
QLLFTADDRAGPCIGGVIFFHETLYQKTDAGKTFPEHVKSRGWVVGIKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKDGCDFAKWRCVLKITSTTPSRLAIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAMYKALSDHHVYLEGTLLKPNMVTAGHSC
SHKYTHQEIAMATVTALRRTVPPAVPGVTFLSGGQSEEEASINLNVMNQCPLHRPWALTF
SYGRALQASALKAWGGKPGNGKAAQEEFIKRALANSLACQGKYVASGDSAAAGDSLFVAN
HAY

>CAT99611.1 Putative thaumatin-like protein [Malus x domestica]
ASRSVDAPSPWSGRLWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCP

>CAT99612.1 Putative thaumatin-like protein [Malus x domestica]
ASRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYYDVSLVDGFNLPMYVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCP

>CAT99617.1 Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEGGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE
RLGDYLIDQGV

>CAT99618.1 Allergen profilin [Malus x domestica]
AQSATFPQLKPEEVTGVMNEFNEPGSLAPTGLYFGGTKYMVIPGEPGVVIRGKKGPGGVT
VKKSTMALLIGIYDEPM

>CAT99619.1 Allergen profilin [Malus x domestica]
GNSLTAAAILGQDGSVWAQSATFPAFKPEEIAAILKDFDQPGTLAPTGLFLGGTKYMVIQ
GEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPLTPGQCNIVVERLGDYLIEQGL

>ACK76291.1 Putative Der f 3 allergen [Dermatophagoides farinae]
MMILTIVVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
RILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKT
PMTLDQTNAKPVPLPPQGSDVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDSGGPVVDIATKQIVGIVSWGYGCARKGYP
GVYTRVGNFVDWIESKRSQ

>ACK76292.1 Putative Der f 3 allergen [Dermatophagoides farinae]
MMILTIVVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDSDVALIKLKT

PMTLDQTNAKPVPLPPQGSDVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDSGGPVVDIATKQIVGIVSWGYGCARKGYP
GVYTRVGNFVDWIESKRSQ

>ACK76296.1 Putative Der f 6 allergen [Dermatophagoides farinae]
MIKIFLVTILIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIACVVGGQDADLAE
APFQISLLKDYLIMKSHMCGGSLISESTVVTAAHCTYGQKASSLSVRYGTNQRTSSSYGD
LKVKTIIQHESYDPDTIQNDISLLILSKPVVPSTNVRMIEIETDDIVDGDKVTIYGWGLT
DGNGKDLPDKLQKGSMTIVGNDRCNEKWGSINAIHPGMICALDKTQSGCNGDSGGPLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>ACK76297.1 Putative Der f 6 allergen [Dermatophagoides farinae]
MIKIFLVTILIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIAGVVGGQDADLAE
APFQISLLKDYLIMKSHMCGGSLISESTVVTAAHCTYGQKASSLSVRYGTNQRTSSSYGD
LKVKTIIQHESYDPDTIQNDISLLILSKPVVPSTNVQMIEIETDDIVDGDKVTIYGWGLT
DGNGKDLPDKLQKGSMTIVGNDRCNEKWGSIDAIHPGMICALDKTQSGCNGDSGGPLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>ACK76299.1 Allergen Der f 7 allergen [Dermatophagoides farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVPDHADKFER
HVGILDFKGELAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAIFQDTVRKEMTKVLAPAFKRELEKN

>BAH09387.1 Allergen allergen [Arthroderma vanbreuseghemii]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLLNLKNGDISVLTTDSDVSEITWLGDGTKIVYVNGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKSGDKINFVGYGQSTTKGDLYNEAAAKEAVSSARIYDSLFVRHWDT
YVGTQFNAVFSGALTKSGDKYSFDGKLKNLVHPVKYAESPYPPFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTTYIFVVPHDGSRVAEPINKRNGPRTPQGIEGASSSPVFSPDGKRI
AYLQMATKNYESDRRVIYIAEVGSNKPVQRIASNWDRSPEVVKWSSDGRTLYVTAEDHAT
GKLFTLPADARDSHKPAVVKHDGSVSSFYFVGSSKSVLISGNSLWSNALFQVATPGRPNR
KLFYANEHDPELKGLGPNDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIQGHDLGRKFKALVSHDGTFVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDFDFRLSVAEGVGLFNVLQEKG
IPSRFLNFPDETHWVTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>BAH10157.1 Putative tropomyosin [Venerupis philippinarum]
MDAIKKKMQAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLLQKKYTNLENEFDQV
NEKYNEGVNKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTQVKLDEATSKLEDATKTA
DESERGRKVLESRSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLEDELLAEKEKYKAISDELDQTFAELAGM

>BAH10148.1 Putative tropomyosin [Haliotis discus discus]
MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGRKVLESRSLADDERIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKEKYKAISDELDQTFAELAGY

>BAH10149.1 Putative tropomyosin [Batillus cornutus]
MDAIKKKMLAMKMEKENALDRAEQLEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQDALSKLENSEKRVTEMEQEVSGTTRKITLLEEDLERNEEGLQTATERLEEASKAA
NESERGSLADDERIDQLEAQLKEAKYIAEDAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT

EAERTVSKLQKEVDRLEDELLAEKEKYKAISDELDQTFAELAGY

>BAH10150.1 Putative tropomyosin [Neptunea polycostata]
MDLIKKKMLSMKMDKENALDRADVMEQKFRDAEDQKSKLEDDLNLLQKKYSQLENEFDRV
NEGLLDANAKLETQDKRVNEMEQEISGLNRRIQLLEEDLERSEERLQTATEKLEEATKAA
DESERARKVLESKNQTAEESADSLEAQLKESKYIAEDAERKYDEAARKLAITEIDLERAE
TRLEAAEAKCYELDEQLHVVGNNIKTLSIQNDQASQREDSYEETIRDLTQRLKDAENRAQ
EAERTVTKLQKEVDRLEDELLAEKERYKNISDELDQTFAELAGY

>BAH10151.1 Putative tropomyosin [Scapharca broughtonii]
MDSIKKKMIAMKMEKENALDRSEQLEQKLRDTEEQKAKVEEELGAYQKKFSILENDFDTV
NTKWEDASVKLEEAEKKLTESEQEIASLTRKTTLLEDDIAKNEEKLMSATQKLEEASHAA
DESERGRKVLESRSFADDERIDALEAQLKEAKYIAEDADRKYDEAARKLAITEVDLERAE
ARLEAAEAKIIELEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTANLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKERYKAISDELDQTFAELAGY

>BAH10152.1 Putative tropomyosin [Crassostrea gigas]
MDSIKKKMIAMKMEKENAQDRAEQLEQQLRDTEEQKAKIEEDLTSLQKKHSNLENEFDTV
NEKYQECQTKLEEAEKTASEAEQEIQSLNRRIQLLEEDMERSEERLQTATEKLEEASKAA
DESERNRKVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAE
ARLEAAEAKVYELEEQLSVVANNIKTLQVQNDQASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKERYKAISDELDQTFAELAGY

>BAH10153.1 Putative tropomyosin [Fulvia mutica]
MEAIKKKMQSMKNEKENAIDKAEQLEIKLKDTEDSKAKIEEDLTSLQKKYTNLENEFDQV
NEKHADSVAKLEAAEKRLTETEDEIKGYTRKIQLLEDDLERTQTKLDEATGKLEEATKSA
DESERGRKVLESRSLADDDRIDGLEKQVKDAKYVAEESDRKYDEAARKLAITEVDLERAE
TRLEAAEAKIVELTEELSVVGNNLKGLQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVIKLQKEVDRLEDELLQEKEKYKQISDELDQTFAELAGM

>BAH10154.1 Putative tropomyosin [Pseudocardium sachalinensis]
MDSIKKKMQAMKIEKENALDKSEQLDQKLKDVEETKAKVEEDLSSLQKKYTNLENEFDKV
NEQYNESVVKLEASEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLDEALLKLEDATKTA
DESERGRKVLESRSIADDDRIDGLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLEDELLAEKEKYKTISDELDQTFAELAGM

>BAH10155.1 Putative tropomyosin [Tresus keenae]
MDSIKKKMQAMKIEKENALDKAEQLDQKLKDTEDSKAKIEEDLSSLQKKYTNLENEFDQV
NEKYNDGVVKLESSEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLEEATLKLEDATKTA
DESERGRKVLESRSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVNKLQKEVDRLEDELLAEKEKYKQISDELDQTFAELAGM

>BAH10156.1 Putative tropomyosin [Solen strictus]
MDSIKKKMQAMKLEKENALDKSEQLEQKLKETEDSKARAEEDLSSLQKKFTNLENEFDKV
NEQYQEGVIKLEASEKRVTECEDEIKGFTRRIQLLEDDLERTQAKLDEALLKLEDASKTA
DESERGRKVLESRSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELQVVGNNSKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLEDELLAEKEKYKQISDELDQTFAELAGM

>ACL36923.1 Putative troponin C [Tyrophagus putrescentiae]
MSVEELSKEQVQMLRKAFDMFDRDKKGYIHTNMVSTILRTLGQTFEENDLQQLIIEIDAD
GSGELEFDEFLTLTARFLVEEDTEAMQEELREAFRMYDKEGNGYIPTSALREILRALDDK
LTEDELDEMIAEIDTDGSGTVDFDEFMEMMTGD

>ACM24358.1 Putative arginine kinase [Blattella germanica]
MVDAAVLEKLEAGFAKLAASDSKSLLKKYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN

HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVTAVNDIEKRIPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>CAR48256.1 Putative beta-parvalbumin [Xiphias gladius]
MAFAGVLSDADVAAALEACKDAGTFDYKKFFKSCGLAAKSTDDVKKAFAIIDQDKSGFIE
EDELKLFLQNFKAAARPLTDAETEAFLKAGDSDGDGKIGAEEFAALVTA

>ACM89179.1 Allergen sarcoplasmic calcium-binding protein [Litopenaeus vannamei]
MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGKKYGDFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSAFAEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>ACN32322.1 Putative tropomyosin [Ascaris lumbricoides]
MDAIKKKMQAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSVANSNLEEKEKKVQEAEAEVAALNRRMTLLEEELERAEERLKLATEKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQLKEAQMLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLEDELVHEKERYKSISEELDQTFQELSGYRSD

>3C3V_A Allergen Chain A, Crystal Structure Of Peanut Major Allergen Ara H 3 [Arachis hypogaea]
ISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNNQEFECAGVALSRLVLRRNAL
RRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGRRYQSQRPPRRLQEEDQSQQQ
QDSHQKVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLTDTNNNDNQLDQFPRRFNLAG
NHEQEFLRYQQQSRQSRRRSLPYSPYSPQSQPRQEEREFSPRGQHSRRERAGQEEEHEGG
NIFSGFTPEFLAQAFQVDDRQIVQNLRGENESEEQGAIVTVRGGLRILSPDRKRGADEEE
EYDEDEYEYDEEDRRRGRGSRGSGNGIEETICTATVKKNIGRNRSPDIYNPQAGSLKTAN
ELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYALRGRAHVQVVDSNGNRVYDEE
LQEGHVLVVPQNFAVAGKSQSDNFEYVAFKTDSRPSIANLAGENSVIDNLPEEVVANSYG
LPREQARQLKNNNPFKFFVPPSQQSPRAVA

>ACN62248.1 Allergen Ara h 2.01 allergen [Arachis hypogaea]
MLTILVALALFLLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSYER
DPYSPSQDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRCMCEALQQIMENQSDRLQG
RQQEQQFKRELRNLPQQCGLRAPQRCDLDVESGGRDRY

>ACN87223.1 Putative tropomysin [Procambarus clarkii]
MDAIKKKMQATKLEKDNAMDRADTLEQQNKEANIRAEKAEEEVHNLQKRMQHLENDLDQV
QESLLKANTQLEEKDKAISNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELTGY

>ACO34813.1 Putative Sal k 1 pollen allergen [Salsola kali]
QLIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSGKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFGTVDSA
TLIVESDYFVGANLIVSNSAPRPDGKRKGAQASALRISGDRAAFYNCKFTGFQDTVCDDK
GNHLFKDCYIEGTVDFIFGEARSLYLNTELHVVPGDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEAARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFGEYKNTGPG
AAADKRVPYTKQLTEADAKTFTSLEYIEAAKWLPPPPKV

>ACO34814.1 Allergen Sal k 3 pollen allergen [Salsola kali]
MASHVVGYPRMGPKRELKFALESFWDGKSSAEDLKKVAADLRSSIWKQMADAGIKYIPSN

TFAYYDQVLDTTAMLGAVPARYGFNGGEIGFDLYFSMARGNASLPAMEMTKWFDTNYHYI
VPELGPEVKFAYSSHKAVDEYKEAKALGVDTVPVLVGPVSYLLLSKAAKGVEKSFPLLSL
LPKILPVYKEVIAELKAAGASTIQFDEPTLVMDLESHQLKAFTDAYADLESTLSGLNVLV
ETYFADLTPEAYKTLVSLNGVTAFGFDLVRGTKTLDLIKSGFPSGKYLFAGVVDGRNIWA
NDLAASLATLQSLESIVGKDKLVVSTSCSLLHTAVDLVNETKLDDEIKSWLAFAAQKVLE
VNALAKALAGQKDEAFFSANAAALASRKSSPRVTNEAVQKAAAGLKGSDHRRATTVSARL
DAQQKKLNLPVLPTTTIGSFPQTVELRRVRREYKAKKISEEEYVKAIKEEISKVVKLQEE
LDIDVLVHGEPERNDMVEYFGEQLSGFAFTVNGWVQSYGSRCVKPPIIYGDVSRPKAMTV
FWSSLAQSMTSRPMKGMLTGPVTILNWSFVRNDQPRHETCYQIALAIEDEAEDLEKAGIN
VIQIDEAALREGLPLRKSGHGFYLQWAVHSFRITNVGIQDTTQIHTHMCYSNFNDIIHSI
IDMDADVITIENSRSDEKLLSVFREGVKYGAGIGPGVYDIHSPRIPPTEELADRIRKMLA
VLESNVLWVNPDCGLKTRKYNEVNPALSNMVYAAKPI

>CAX32963.1 Allergen parvalbumin [Gallus gallus]
MAMTDVLSAEDIKKAVGAFSAAESFNYKKFFEMVGLKKKSPEDVKKVFHILDKDRSGFIE
EEELKFVLKGFTPDGRDLSDKETKALLAAGDKDGDGKIGADEFATMVAES

>ACO56333.1 Allergen 2S albumin [Corylus avellana]
MARLATLAALFAALLLVAHAAAFRTTITTVDVDEDIVNQQGRRGESCREQAQRQQNLNQC
QRYMRQQSQYGSYDGSNQQQQQELEQCCQQLRQMDERCRCEGLRQAVMQQQGEMRGEEMR
EVMETARDLPNQCRLSPQRCEIRSARF

>ACP43298.1 Allergen Ama r 2 pollen allergen [Amaranthus retroflexus]
MSWQAYVDDHLMCEIEGTTNHLTGAAILGLDGSVWAQSADFPQFKPDEIAAIVEDFDEPG
TLAPTGLHLGGTKYMVIQGEPGAVIRGKKGAGGICVKKTGQALVMGIYDEPVTPGQCNMI
VERLGDYLIEQGY

>BAH59276.1 Putative cochineal major allergen [Protortonia cacti]
MPVRMLFSILISLILVSVVVGNEHYPKVSPAQFSAAFHGYELPQKECRADEVDSNEVKFY
LYTRQNLHKYELHTGYNCSNSYESLRNSTYNVRKETKFLIHAWTQSPKDINDIIYIYLYA
ENVNVIMVDWSMYSQTCNYNSTSYVVIPKVAKALSDLMKLLTGYGAVPQKNFHVIGFLHG
AHIAGIAGKYISPLRISRISGLDPVGYNIDGTALPVLQNGDADFIDVIYTSIEYYGTQRQ
IGDLSFYPDRGTHPQKQCPPDPNEWVCSALASIKYWRESITSPTAFSAIRCDNYVQYHES
RCPGPNTTMGEYASRNAPFGKYYLNTNPEPPYSQS

>ACR43473.1 Putative tropomyosin [Crangon crangon]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV
QEALLKANAHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>ACR43474.1 Putative arginine kinase [Crangon crangon]
MVDAEVLEKLEAGYKKLEAATDCKSLLKKYLTKEVFDELKTKKTALGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQSDKHPGKDFGDLEKFVNVDPEGTFV
VSTRVRCGRSMEGYPFNPCLTEAQYKEMESKVSSTLSSLEGELKGTYYPLTGMSKDVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANRDKLESV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILEPIKMEKEM

>ACR43475.1 Putative sarcoplasmic calcium-binding protein [Crangon crangon]
MAYTWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVKNTLIECRGEWSAEKYAANQKIMSN
LWNEIAELADFNKDGEVTVEEFKQAVQKHCNGKPFGDFPSAFKTFIANQFKTIDVNGDGL
VGVDEYRLDCISRSAFSCIKEIDDAYNLLCTEEDKKAGGINIARYQELYAQFISNPDEKC
NAVYLFGPLKEVV

>ACR43476.1 Putative triosephosphate isomerase [Crangon crangon]

MSGSRKFFVGGNWKMNGDKAAIDGIVDFMKKGPLNPNTEVVVGCPQCYLSYTREKLPAEI
GVAAQNCYKVAKGAFTGEISPAMVKDCGCEWVILGHSERRNVFNEPDQLISEKVGHALEA
GLKVIPCIGEKLDERESNRTEEVVFAQMKALVPNISDWSRVVIAYEPVWAIGTGKTASPE
QAQDVHAKLRQWLTENVSAEVAESCRIIYGGSVSPSNCAELAKMGDIDGFLVGGASLKPD
FVTIINARG

>ACR43477.1 Putative myosin light chain [Crangon crangon]
MAADLSARDVERVKFAFSIYDFEGNGQIDAFYIGDCLRALNLNPTLALIAKLGGTEKRKE
KMIKLDDFMPLFAQVKKDKDAGSYEDFIEVLKLYDKAENGTMMYAELEHILLSLGERLDK
AELEPILRECCPPEDDEGLIPFEPFVKKLTQLL

>ACR43478.1 Putative troponin C [Crangon crangon]
MDSLEPDQIDALKKAFDSFDTENQGFITADTVATILRMMGVKISDKNLAEVIAETDEDGS
GQLEFEEFVDLSSKFLIEEDEEALKAELREAFRIYDKEGQGFITTDVLKEILTEIDNKLT
PEDLDGIIEEVDEDGSGTLDFDEFMEMMSG

>ACR77509.1 Allergen Che a 2 pollen allergen [Chenopodium album]
MSWQTYVDDHLMFPIEETGNHLTAAAIVGLDGSVWAQSSTFPQLKQEEVKAICNEFDVPN
TLAPTGLFLGGEKYMVIQGEPGAVIRGKKGPGGVCIKKTNQALVFGIYNEPVTPGQCNMV
VEKLGDYLVEQGM

>ACS14052.1 Allergen tropomyosin [Periplaneta americana]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAEEEARSLQKKTQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAD
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFICDDLDMTFTELVGY

>ACS34771.1 Allergen Sal k 4 pollen allergen [Salsola kali]
MSWQTYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMVIQGEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTPGQCNMI
VERLGDYLVEQGM

>CAQ72968.1 Putative parvalbumin [Sebastes marinus]
MALAASLNAADITAALAACSGVDTFKHKDFFGKVGLSAKSADDIKNAFKVIDQDKSGFIE
EEELKLFLQNFSATARALTEAETTAFLKAGDSDGDGMIGMDEFAAMVKG

>CAQ72969.1 Putative parvalbumin [Sebastes marinus]
MAFASVGLKDADIAAALDGCKDAGKFNHKTFFKTCGLSGKSSDEVKKAFAIIDQDISGFI
EEEELKLFLQTFKAGARALSDAETKEFLKAGDSDGDGKIGADEWAAMVKQ

>CAQ72970.1 Putative parvalbumin [Clupea harengus]
MALASLLKGADIDAALKACEAKDSFKHKDFFAKIGLATKSAADLKKAFEIIDQDKSGFIE
EEELKLFLQNFKAGARALTDAETKAFLKAGDADGDGMIGVDEFAVMIKP

>CAQ72971.1 Putative parvalbumin [Clupea harengus]
MAFAGLLSDADIAAALGACTAADTFDHKSFFKKVGLSGKSADDVKKPFYIIDQDKSGFIE
EEELKLFLQNFKAGARALSDKETKAFLAAGDADGDGMIGVDEFAVMVKAR

>CAQ72972.1 Putative parvalbumin [Clupea harengus]
MAFAAFLKEADITAALGACKGADSFDHKAFFAKVGLKGKSGDELKKAFEIIDQDKSGFIE
EEELKLFLQNFCKGARALTDGETKKFLKAGDSDNDGKIGIDEFAALINH

>CAZ76054.1 Putative glyceraldehyde-3-phosphate dehydrogenase [Triticum aestivum]
MGKIKIGINGFGRIGRLVARVALQSDDVELVAVNDPFITTEYMTYMFKYDTVHGHWKHSD
IKLKDDKTLLFGEKPVTVFGVRNPEEIPWGEAGADYVVESTGVFTDKDKAAAHLKGGAKK
VVISAPSKDAPMFVVGVNEDKYTSDVNIVSNASCTTNCLAPLAKIINDNFGIIEGLMTTV

HAITATQKTVDGPSSKDWRGGRAASFNIIPSSTGAAKAVGKVLPELNGKLTGMSFRVPTV
DVSVVDLTVRTEKAASYDDIKKAIKAASEGKLKGIMGYVEEDLVSTDFVGDSRSSIFDAK
AGIALNDHFVKLVSWYDNEWGYSNRVVDLIRHMAKTQ

>CAZ76052.1 Allergen alpha amylase inhibitor CM1 [Triticum aestivum]
TGPYCYAGMGLPINPLEGCREYVAQQTCGISISGSAVSTEPGNTPRDRCCKELYDASQHC
RCEAVRYFIGRRSDPNSSVLKDLPGCPREPQRDFAKVLVTPGHCNVMTVHNAPYCLGLDI

>ACT37324.1 Putative SchS21 protein, partial [Stachybotrys chartarum]
ASVTFWTLDNVDRTLVFTGNPGSAAIETITVGPAENTTVEFPGSWVGNWYAYPTDAEDVP
GMLGEVQFGGWNGLTYFDVSAIVNPTDHDNVKQMWPAESRKPMSGCEVFPCDNAYWLPDD
IQTKVTHEVDLWTTLGAGSTGLTF

>CAQ68249.1 Allergen Der p 2 allergen precursor [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDNGVLACA
IATHAKIRD

>CAQ68250.1 Allergen Der p 1 allergen precursor [Dermatophagoides pteronyssinus]
RPSSIKTFEEYKKAFNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCNGDTIPRGIEYIQHNGVVQESYYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQ
RDNGYQPNYHAVNIVGYSNAQGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>ACV04796.1 Allergen stalk non-specific lipid-transfer protein 1 [Apium graveolens]
MGVSKVAIAVAVMLMVVVINHPAVVEGLTCGQVTGKLGGCLGYLKGGGYPSPACCGGVKG
LNSLAKTPADRKQACACLKTLAGSVKGINYGAASALPGKCGIRIPYPISPSTDCSRVN

>BAD74060.2 Allergen group 2 allergen [Dermatophagoides farinae]
MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFDA
NQNTKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHGKIRD

>ACV04860.1 Putative gluthatione S-transferase Blo t 8 isoform [Blomia tropicalis]
MAPLKIGYWDVRGFAEPIRMLLKHLNIEFEETRYGFGNDSEESLPNRDEWLAEKFTLGLE
FPNLPYLFDGDFKMTESVAILKRLARANGMIATTEPALSYSEMIEAMIIDIRNRLINVVY
AENSGTPEEFEQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
VFVKSTPIFEKFAKVSDYMKRFEELPSLKEYIARDEHRSASCLSPFARIGHRWAKE

>3EHK_A Putative Chain A, Crystal Structure Of Pru Du Amandin, An Allergenic Protein From Prunus Dulcis [Prunus dulcis]
ARQSQLSPQNQCQLNQLQAREPDNRIQAEAGQIETWNFNQGDFQCAGVAASRITIQRNGL
HLPSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESQQSSQQGRQQEQEQERQQQQQGEQG
RQQGQQEQQQERQGRQQGRQQQEEGRQQEQQQGQQGRPQQQQQFRQLDRHQKTRRIREGD
VVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNPRKFYLAGNPENEFNQQGQSQP
RQQGEQGRPGQHQQPFGRPRQQEQQGNGNNVFSGFNTQLLAQALNVNEETARNLQGQNDN
RNQIIQVRGNLDFVQPPRGRQEREHEERQQEQLQQERQQQGEQLMANGLEETFCSLRLKE
NIGNPERADIFSPRAGRISTLNSHNLPILRFLRLSAERGFFYRNGIYSPHWNVNAHSVVY
VIRGNARVQVVNENGDAILDQEVQQGQLFIVPQNHGVIQQAGNQGFEYFAFKTEENAFIN
TLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIALSSSQQRRAVV

>ACY01951.1 Putative putative Cup a 4 allergen [Cupressus arizonica]

MDEVPSSDESKSASSGKRVLEQSVHELEEVFKKFDANGDGKISGSELADILRSMGSEVDE
AEVKAMMEEADTDGDGYVSLQEFVDLNIKGATVKDLKNAFKVFDRDCNGTISPAELCETL
KSVGEPCTIEESKNIIHNVDKNGDGLINVEEFQTMMTSEMTDKSK

>ACY38525.1 Putative allergen Can f 4 precursor [Canis lupus familiaris]
MKILLLCLALVLASDAQLPLPNVLTQVSGPWKTLYISSNNLDKIGDNGPFRIYMRGINVD
IPRLKMSFNFYVKVDGECVENSVGASIGRDNLIKGEYNGGNYFRIIDMTPNALIGYDVNV
DSKGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIIYLGDTDNCPNHE

>ACY40650.1 Putative allergen Bla g 3 isoform 1 precursor [Blattella germanica]
IPADKVFLRKQWDVLRLVHRIHQHSIIPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVKRGEPFSTYYIKHREQAIMLFELFYYANDYDTFYKTACWARDRVNEGMFLYSFNIA
IMHREDMQDIVIPAFYEIYPFLFVENDVIQKAYDYKMKESGHLNEPHTHVIPVNFTLRNQ
EQLLSYFTEDVFLNAFNTYFRYMYPTWFNYTKYEYDVPRHGEQFYYFYQQIYARYMLERY
SNDMPDIKPFTYNKAFKTPYNPQLRYPNGQEVPARPAYMVPQDFDLYYVSDIKNYERRVA
DAIDFGYVFCDKMISHSLYNDKKGFEMLAEIIEGNSMHPDYYGHIFHMYRSLLGHVTDPF
HKNGEAPSALEHPETALRDPAFYQIWKRVQHYFYKFQMKLPYYTREELTFDGVKIDNVDV
GKLYTYFEPYEMSLGYSVKVENIQDAANVDIRARNYRLNHKPFTYNIEVTSEKETPVYVR
VFLGPKYNYYGHEYDLNERRNKFVEIDRFPYQLHAGKNAIERNSHESTVVAKEQDTPKVL
YKKVNEAYEGKATYNYDKQTKFCGLPEHLLIPKGKKGGQAFTVYVIVTPYDKAVEKEEHH
FKAYSYCGVGPHDTYPDDKPLGFPFDRPIHSYDFVTPNMFMKDVFIFHKKYEEVEQH

>ACY40651.1 Putative allergen Bla g 3 isoform 2 precursor [Blattella germanica]
IPADKVFLRKQWDVLRLVHRIHQHSIIPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVKRGEPFSTYYIKHREQAIMLFELFYYANDYDTFYKTACWARDRVNEGMFLYSFNIA
IMHREDMQDIVVPAFYEIYPFLFVENDVIQKAYDYKMKESGHLNEPHTHVIPVNFTLRNQ
EQLLSYFTEDVFLNAFNTYFRYMYPTWFNYTKYEYDVPRHGEQFYYFNQQMFARYMLERY
SNDMPEIQPFTYTKPFKTPYNPQLRYPNGQEVPARPAYMMPQDFDLMYVSDIKNYEKRVA
DAVDFGYVFCDKMISHSLYNNEKGLEWLGQIVEGNSMHPDFYGHIFHMYRSLLGHITDPF
HKHGVAPSALEHPETSLRDPAFYQIWKRVQHYFNKFQMKQPYYTREELAFDGVKIDNVDV
GKLYTYFEPYEMGLSNAVKVGKLEDVPNVDIRARNYRLNHKPFTYNVEVTSEKDTPVYVR
VFLGPKYNYYGHEYDLNERRNYFVEIDRFPYQLHTGKNTIQRNSHDSSVVAQEQDTYKVL
YKKVNEAYEGKTTYTYEKQDKYCGLPEHLLIPKGKKGGQAFTVYVIVTPYDKAVEKEEHH
FKAYSYCGVGPHDSVYDKKPLGFPFDRPIHSYDFVTPNMFMKDVFIFHKKYEEVEQH

>ACY91851.1 Allergen beta-1,3-glucanase form 'RRII Gln 2' [Hevea brasiliensis]
MAICSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVCYGMQGNNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>ACZ57582.1 Putative Ole e 11.0101 allergen precursor [Olea europaea]
MSCIAVEAVLLGILLYIPIVLSDDRAPIPSNSAQLNSWFDGIIQPVAVRKATMDPALVTA
EGQTKVIKLKSDGSGDFKSINEAIKSIPDDNTKRVILSLAPGNYSEKVKIGMYKHYITFY
GEDPNNMPILVFGGTAAEYGTVDSATLIVESNYFSAVNLKIVNSAPRPDGKRVGAQAAAL
RISGDKASFYNVKIYGFQDTLCDDKGKHFYKDCYIEGTVDFIFGSGKSIFLNTELHAVPG
DQPAIITAQARKTDSEDTGYYFVNCRVTGGGAFLGRSWMPAAKVVFAYTEMVDAIHPEGW
ILVKPEHESTVRFSEYNNKGPGANMEKRAKFVKRLSDAEAKQSISLGSIEASKWLLPPRV
VGLP

>ACZ74626.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAMLSSTSRTTGSLLSRTPVMLLLILYIASLGITDAQVGVCYGKLGNNLPPASEVIALYK

QSNIKRMRIYDPNQEVLQALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRDFWSSV
RLRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLMGNTY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPDRAIETYLFAMFDENQKQPEVEKHFGLFFPDKRPKYNLNFSAKKNWDIS
TEHNATVLFLKSDM

>ACZ95445.1 Putative Ani s 10 allergen precursor [Anisakis simplex]
MHLITALVLLLQLIHFITSSPIPQEVVGGPGPVVGGSGIGNVWEKANEQAAEQQNIGGPG
PVISGSGIGDVWNKANEPAEQQENIGGPGPVVSGSGIGNVWEKANEQAAHQQSIEGPGPV
VSGSGIGNVWEKANEQAAHQQSIEGPGPVVSGSGIGDVWNKANEQAAEQQNIGGPGPVIS
GSGIGNVWEKANEQAAEQQNIGVGGPGPVKSGSGIGNVWEETNEEAASMQA

>CAM31908.1 Putative bet v 1 related allergen [Actinidia chinensis]
MGVVTYDMEIPSKVPPVKLYKAFILDGDTLVPKVLPHAIKCVKILEGDGCAGTIKEVTFG
EGSHHKCVKQRVDAIDKDNLTYSYTIIEGDVLAEKFESISYHIKIVACPDGGSICKNRSI
YTTKGDCKVSEEEIKLGKEKAAEIFKALEAYLLANPDYC

>CAM31909.1 Putative bet v 1 related allergen [Actinidia deliciosa]
MGAITYDMEIPSSISAEKMFKAFVLDGDTIIPKALPHAITGVQTLEGDGGVGTIKLTTFG
EGSVHKSVKHRIDGLDKENFTYSYSIIEGGALDVFESISYHIKIVATPDGGCICKNRSIY
TPKCDAQVSEEEIKAGKERASGIFKKVEAYLLANPDC

>CBA13559.1 Allergen putative alpha-amylase inhibitor CM2 [Triticum aestivum]
TGPYCYPGMGLPSNPLEGCREYVAQQTCGVGIVGSPVSTEPGNTPRDRCCKELYDASQHC
WCEAVRYFIGRTSDPNSGVLKDLPGCPREPQRDSAKVLVTPGHCNVMTVHNTPYCLGLDI

>CBA13560.1 Putative putative alpha-amylase inhibitor 0.28 [Triticum aestivum]
SGPWSWCDPATGYKVSALTGCRAMVKLQCVGSQVPEAVLRDCCQQLADVNNEWCRCEDLS
SMLRSVYQELGAREGKEVLPGCRKEVMKLTAASVPEVRKVPIPNPSGDRAGVCYWAAYPD
V

>CAY54134.1 Putative alpha/beta gliadin precursor [Triticum aestivum]
VRVPVPQLQPQNPSQQQPQEQVPLVQQQQFLGQQQQHFPGQQQPFPPQQPYPQPQPFLPQ
LPYPQPQPFPPQQSYPQPQPQYPQPQQPISQQQAQLQQQQQQQQQQILQQILQQQLIPCR
DVVLQQPNIAHASSQVSQQSYQLLQQLCCQQLWQTPEQSRCQAIHNVIHAIILHHQQQQQ
QQQQQQQQQQQQQQQQQQQQQQQPSSQVSYQQPQQQYPSGQGSFQPSQQNPQAQGFVQPQ
QLPQFEEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFSTN

>3FT1_A Allergen Chain A, Crystal Structure Of Pollen Allergen Phl P 3 [Phleum pratense]
AVQVTFTVQKGSDPKKLVLDIKYTRPGDSLAEVELRQHGSEEWEPLTKKGNVWEVKSSKP
LVGPFNFRFMSKGGMRNVFDEVIPTAFSIGKTYKPEEQEF

>ADB92492.1 Allergen major allergen Cr-PII [Periplaneta americana]
MKLPIMILAVLGVAFGKSLPTRNLQDDLNDFLALVPTDEIVAIVMDYLANDAEVQEAVAY
LQGDEFHKIVSTVEGLQEFTNFVQFLEDHGLDAVGYINQLHSVLGWDPYVPPSQRKHARR
GVGVDGLIDDIIAILPIDDLKALFQEKLETSPDFKAFYDAIRSPEFQSIVQTLNAMPEYQ
ELLQKLRDKGVDVDHYIELIRALFGLSRATRNLQDDLNDFLALIPTDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIITTVEGLDAFNNFYNFMKEHGLDVVDYINEIHSIIGLPPFVP
PTRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLRDKGVDVDHFIELIRSLFGLP

>ADB92493.1 Allergen major allergen Cr-PI [Periplaneta americana]
MKTALVFAAVVALVACAAFPAHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVG
NTYDIEANIGNYKYPRVVKQFMAYFKKGMLPRGEPFSVYFEKHREQAIMLYNLFYFANDY

DTFYKTACWARDRVNEGMFMYSFSIAVFHRDDMQGVMLPPPYEVYPYLFVDHDVIHMAQK
YWMKNAGSNEHHSYVIPVNFTLKNQDQLLAYFTSDVNLNAFNTYYRYYYPSWYNTTLYGH
TIDRRGEQFYYTYKQIYARYFLERLSNDLPDVYPFYYSKPVKSAYNPNLRYHNGEEMPVR
PSNLYVTNFDLYYIADIKNYEKRVEDAIDFGYVFDEHVKPHSLYHDVHGMEYVADMIEGN
MDSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSALEHPETVLRDPAFYQLWKRVDHLF
QKYKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDVSLDMSVYVNKVDQIPNVDVHA
RQYRLNHKPFTYNIEVSSDKAQDVYVRVFLGPKYDYLGREYDLNDRRHYFVEMDRFPHHV
EAGKTVIERNSHDSNIVAPERDSYRTFYKKVQEAYEGKSQYYVDKGHNYCGYPENLLIPK
GKKGGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSNRKYPDNMPLGYPFDRKIYS
NDFYTPNMYFKDVIIFHKKYDEVGVQGH

>ADB96066.1 Allergen profilin [Arachis hypogaea]
MSWQTYVDNHLLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEPGSL
APTGLYLGGTKYMVIQGEPGAVIRGKKGPGGVTIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDTGL

>CBJ24286.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFVLAFSEIASVKGKLCEKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFCYFDCDPTKNPGPPPGAPKGKAPAPSPPSGGGAPPPSGGEGGDGPPPPEGGEG
GGDGGGEGGGEGGGDGGGEGGGEGGGDGGGDGGGEGGGEGGGER

>CAX32965.1 Putative parvalbumin [Scomber scombrus]
MAFASVLKDAEITAALDGCKAAGSFDHKKFFKACGLSGKSADEVKKAFAIIDQDKSGYIE
EEELKLFLQNFKAGARALSDAETKAFLKAGDSDGDGKIGVDEFAAMIKG

>CAX32966.1 Putative parvalbumin [Salvelinus fontinalis]
MACAHLCKEADIKTALEACKAADSFNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFCPKARVLTDAETKAFLKAGDADGDGMIGIDEFAVWVKQ

>CAX32967.1 Putative parvalbumin [Salvelinus fontinalis]
MAFAGLNDADVAAALAACTAADSFNHKAFFAKVGLAGKSNDDVKKAFYVIDQDKSGFIEE
DELKLFLQNFSASARALTDAETKAFLADGDKDGDGMIGVDEFAAMIKG

>P86431.1 Putative RecName: Full=Parvalbumin beta 1 [Oncorhynchus mykiss]
ACAHLCKEADLKTALEACKAADSFNFKTFFHTLGFASKXXDDVKKXXXVLDQDASGFLEV
EELKLFLQNFCPKXXXLTDAETKAFLKAGDADGDGMLGLDEFAVLVKQ

>P86432.1 Putative RecName: Full=Parvalbumin beta 2 [Oncorhynchus mykiss]
SFAGLNDADVAAALAACAAADSFNHKAFFAKXXXXXXSPDDLKKXXXXLDQDKSGFLEED
ELKLFLQNFSASARALTDAETKXXXXAGDADGDGMLGLDEFAVLVKQ

>P85894.1 Allergen RecName: Full=Non-specific lipid-transfer protein 1; Short=LTP 1; AltName: Allergen=Mor n 3 [Morus nigra]
ITCGQVSSSLAPCINYLRAGGVVPANCCNGVRSLNNAAKTTADRQAACNCLKSAFNSIKG
LNLNLAAGLPGKCGVSVPYKISPSTDCKSVK

>ADC55380.1 Putative tropomyosin [Macrobrachium rosenbergii]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>CAA31395.4 Allergen high molecular weight glutenin subunit 5 [Triticum aestivum]
MAKRLVLFVAVVVALVALTVAEGEASEQLQCERELQELQERELKACQQVMDQQLRDISPE
CHPVVVSPVAGQYEQQIVVPPKGGSFYPGETTPPQQLQQRIFWGIPALLKRYYPSVTCPQ

QVSYYPGQASPQRPGQGQQPGQGQQGYYPTSPQQPGQWQQPEQGQPRYYPTSPQQSGQLQ
QPAQGQQPGQGQQGQQPGQGQPGYYPTSSQLQPGQLQQPAQGQQGQQPGQAQQGQQPGQG
QQPGQGQQGQQPGQGQQPGQGQQGQQLGQGQQGYYPTSLQQSGQGQPGYYPTSLQQLGQG
QSGYYPTSPQQPGQGQQPGQLQQPAQGQQPGQGQQGQQPGQGQQGQQPGQGQQPGQGQPG
YYPTSPQQSGQGQPGYYPTSSQQPTQSQQPGQGQQGQQVGQGQQAQQPGQGQQPGQGQPG
YYPTSPQQSGQGQPGYYLTSPQQSGQGQQPGQLQQSAQGQKGQQPGQGQQPGQGQQGQQP
GQGQQGQQPGQGQPGYYPTSPQQSGQGQQPGQWQQPGQGQPGYYPTSPLQPGQGQPGYDP
TSPQQPGQGQQPGQLQQPAQGQQGQQLAQGQQGQQPAQVQQGQRPAQGQQGQQPGQGQQG
QQLGQGQQGQQPGQGQQGQQPAQGQQGQQPGQGQQGQQPGQGQQGQQPGQGQQPGQGQPW
YYPTSPQESGQGQQPGQWQQPGQGQPGYYLTSPLQLGQGQQGYYPTSLQQPGQGQQPGQW
QQSGQGQHWYYPTSPQLSGQGQRPGQWLQPGQGQQGYYPTSPQQPGQGQQLGQWLQPGQG
QQGYYPTSLQQTGQGQQSGQGQQGYYSSYHVSVEHQAASLKVAKAQQLAAQLPAMCRLEG
GDALSASQ

>ADC80502.1 Allergen non-specific lipid transfer protein 1a precursor [Phaseolus vulgaris]
MASVKFACVVVLCMVVVGAHTAQGMTCGQVQSNLVPCVTFLQNGGFVPAGCCNGVRNIMN
SARSTADRRGICNCLKTAAGAVRGLNPNNAQALPGKCGVNIPYKISTSTNCASIN

>ADC80503.1 Allergen non-specific lipid transfer protein 1b precursor [Phaseolus vulgaris]
MATLNSACVVAVLCLVVLTAPTAHAAISCGQVTSSLASCIPFLTKGGPVPASCCSGVRSL
NAAAKTTPDRQAVCNCLKSAAGAIPGFNANNAGILPGKCGVSIPYKISTSTNCATIKF

>ADD17628.1 Allergen Per a 3 allergen [Periplaneta americana]
MKTALVFAAVVAFVAARFPDHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVGI
PMTSKQTSATTVPPSGEAVHGVLQEGHARPRGEPFSVNYEKHREQAIMLYDLLYFANDYD
TFYKTACWARDRVNEGMFMYSFSIAVFHRDDMQGVMLPPPYEVYPYLFVDHDVIHMAQKY
WMKNAGSGEHHSHVIPVNFTLRTQDHLLAYFTSDVNLNAFNTYYRYYYPSWYNTTLYGYF
LERLSNDLPDVYPFYYSKHNIDRRGEQFYYTYKQIYARPVKSAYNPNLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEKRVEDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMIEGNM
DSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSLEHPETVLRDPVFYQLWKRVDHLFQK
YKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDMSLDMAVYVNNVDQISNVDVQLAV
RLNHKPFTYNIEVSSDKAQDVYVAVFLGPKYDYLGREYDLNDRRHYFVEMDRFPYHVGAG
KTVIERNSHDSNIIAPERDSYRTFYKKVQEAYEGKSQYYVDKGHNYCGYPENLLIPKGKK
GGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDF
YTPNMYFKDVIIFHKKYDEVGVQGH

>ADD18879.1 Putative salivary antigen 5 precursor [Glossina morsitans morsitans]
MKFVLATLNLLVLVSAGSVDYCNLCEKHVACVSQNVFQSGCSSDAKMIDLKKYQTTLLDA
HNKKRDNVAGGGESKLKRACRMATMKWNSELAKLAEYNVRQCEMNHDKCRNTNTFKYAGQ
NLAELGRSGAGTPDYGQLIQKAVDSWYEEVNDCNQGYIDSYPKDYKGPAIGHFTVMVAER
NTHMGCAASQYTRSNGFTYFLLACNYATTNMMEFPIYKSCSASAQDCKTGKNSKYQNLCS
ANEKYEVNRWFKDGVEYQ

>ADD19985.1 Putative antigen 5 precursor [Glossina morsitans morsitans]
MNFVLATLSLLILLSAAVSADYCGLCDNHVACVMQNVFQSGCPSGAKMIDLNKYQSTLLD
AHNKKRNHVAGGGESKLKRACQMATMKWDPELAKLAEYNVKQCQMNHDKCRNTVKFKYAG
QNLAELGRSGGPDPDYGQLIQKAVDKWYEEVKDCNQGYIDAYPMNYRGPAIGHFTVLVAE
RNTHMGCAASEYTKSNGFKYFLMACNYATTNMMDFPIYKSCGSSAQDCKSGKNSKYPNLC
SPNEKYEVNKWIKNGMEYH

>ADD19989.1 Putative salivary antigen 5 precursor variant [Glossina morsitans morsitans]
MNFVLATLSLLILGSAAVGGDYCGLCDNHVACVMQNVFQSGCPSGAKMIDLNKYQSALLD
AHNKKRNHVAGGGESKLKRACQMATMKWDSELAKLAEYNVKLIEKAVDKWYEEVKDCNQG
YIDSYPMNYRGPAIGHFTVMVAERNTHVGCAASEYTKSNGFQYFLMACNYATTNMMEFPI

YKSCGSSAQDCKSGKNSKYPNLCSPNEKYEVNKWIKNGVEYH

>ADD74392.1 Putative Sol s 2 allergen [Solenopsis saevissima]
MKTFVLVSCLLVFTQIIYALDIKEISIMNRILEKCIRTVPKHENDPINPLRNVNVWYCAF
TKRGIFTPKGVNTKQYINYCEKTAISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKGLLELTVYGKKK

>CAX62602.1 Allergen aldolase A [Thunnus albacares]
MTHQFPSLSPEQKKELSDIAQRIVAPGKGILAADESTGTMGKRLQKINVENNEENRRYFR
DLLFSSDASISNCVGGVIFFHETLYQKADSGKLFPQVIKDKGIVVGIKVDKGTAGLNGTD
GETTTQGLDGLSERCAQYKKDGCDFAKWRCVLKISDGCPSALGIAENANVLARYASICQQ
NGLVPIVEPEILPDGEHDLLRCQYVTEKVLAAVYKALSDHHVYLEGTLLKPNMVTAGHSC
TKKYTPQEVAMATVTALRRTVPAAVPGICFLSGGQSEEEASLNLNAINQVPLHRPWKLTF
SYGRALQASALAAWQGKAANKTAAQEAFCNRAKINGLAAKGEYKPSGSADKASMQSLYTA
SYVY

>CBK52317.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFVLAISEIASVKGKLCEKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFCYFDCDPTKNPGPPPGAPKGKAPAPSPPSGGGAPPPSGGEGGDGPPPPEGGEG
GGDGGGEGGGEGGGDGGGEGGGEGGGDGGGDGGGEGGGEGGGER

>CBK62693.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFVLAISEIASVKGKLCEKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFCYFDCDPTKNPGPPPGAPKGKAPAPSPPSGGGAPPPSGGEGGER

>CBK62694.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
KLCEKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKRDSKATCFCYFDCDPTKNPGP
PPGAPKGKAPAPSPPSGGGAPPPSGGEGGDGPPPPEGGEGGGDGGGEGGGDGGGEGGGEG
GGDGGGDGGGEGGGEGGGER

>CBK62695.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
KLCEKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKRDSKASCFCYFDCDPTKNPGP
PPGAPKGKAPAPSPPSGGGAPPPSGGEGGGDGGGEGGGEGGGGGEGGGEGGGGGEGGGEG
GGGGEGGGEGGGER

>CBK62697.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
KLCEKPSVTWSGNKVKQTDKCDKRCIEWEGAKHGACHKRDSKASCFCYFDCDPTKNPGPP
PGAPKGKAPAPSPPSGGGAPPPSGGEGGGDGGGGRR

>CBK62698.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFVLAISEIASVKGKLCEKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNPGPPPGAPKGKAPAPSPPSGGGGEGGGEGGGER

>CBK62699.1 Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFVLAISEIASVKGKLCEKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNPGPPPGAPKGKVVKEVVVEGGGEGGGGGEGGGGEGGGER

>BAI94503.1 Putative pollen allergen CJP-8 [Cryptomeria japonica]
MAMRMKSSSMSSYRFSYCQMMLVLMVMTLVQIGAAQSDTNSCVNSLVPCASYLNATTKPP
DSCCVPLLNVIQTQQQCLCNLLNSSIVKQSSINITQALNIPRLCGDTNVSTDACSTNATA
NAPSASTTPSVPADTGDSSGIGATSLQIFLPLLAVFFLGVFKSFP

>BAJ04354.1 Putative pollen allergen CPA63 [Cryptomeria japonica]
MARRLCSFLLSFLIIVSVWAENSKFARLNLASFTWKDAEDNKNCSAGELETSSLSVMHIQ
GKCSPFRLLNSSWWTAVSESIKGDTARYRAMVKGGWSAGKTMVNPQEDADIPLASGQAIS
SSNYIIKLGFGTPPQSFYTVLDTGSNIAWIPCNPCSGCSSKQQPFEPSKSSTYNYLTCAS
QQCQLLRVCTKSDNSVNCSLTQRYGDQSEVDEILSSETLSVGSQQVENFVFGCSNAARGL
IQRTPSLVGFGRNPLSFVSQTATLYDSTFSYCLPSLFSSAFTGSLLLGKEALSAQGLKFT
PLLSNSRYPSFYYVGLNGISVGEELVSIPAGTLSLDESTGRGTIIDSGTVITRLVEPAYN
AMRDSFRSQLSNLTMASPTDLFDTCYNRPSGDVEFPLITLHFDDNLDLTLPLDNILYPGN
DDGSVLCLAFGLPPGGGDDVLSTFGNYQQQKLRIVHDVAESRLGIASENCDG

>ADE74975.1 Putative extracellular alkaline serine protease [Aspergillus versicolor]
MYSIKRTILLLGALLPAVFGAPILEARRQTEKVPGKYIVTFKSGLQAEQIDAHTTWASNV
HKRNLERRDLTDRDLYPGIEKNFKIHKFAAYVGSFDDATIEEIRNHKDVAHVEEDQVWYL
DALTTQSDAPWGLGAISHQGDASSDYIYDTSAGADTYAYVVDTGINVDHSEFDGRASLAY
NAAGGQHVDSVGHGTHVAGTIGGKTFGVSKKANLLSVKVFEGESSSTSIILDGYNWAAND
IVSKSRTGKSAINLSLGGGYSYAFSNAVESAFDEGVLSVVAAGNENVDASNTSPASAPNA
LTVAASTERNARASFSNYGEVVDIFAPGEDILSAWIGGNSATNTISGTSMATPHIVGLSL
YLIALEGLSSPGDVTSRIKELATQGALSGVSGSPNALAYNGAE

>BAJ07603.1 Putative vitellogenin, partial [Oncorhynchus keta]
SMTDLSPFDDNIVNKIHYLFSEVNAVKCSMVGDTLTTFNNRKYPVNMPLSCYQVLAQDCT
IELKFMVLLKKDHASEQNHINVKISDIDVDLYTEDHGVMVKVNEMEISKDNLPYTDPSGS
IMIKQKGEGVSLYAKSHGLQEVYFDSNSWKIKVVDWMKGQTCGLCGKADGEHRQEYRTPS
GRLTKSSVSFAHS

>ADH10372.1 Putative class III chitinase precursor, partial [Coffea arabica]
AGIVRYWGRGHDEPSSLAEFGRQEFATDVNIAFLEDFGGGRMPELNISHPLPSASDIEYC
QKHQTKVFISIAGQPSLSSVEDAEEVAAYVWNTYLGGKSSDRPFGKAVLDGVELHIHSGN
TTYLDDLARALKGYSNVISAVAAECPIPDPALDTTIRTGVVDQVRVEFFDNPSCQFTPPK
DTSLLFPSWDNWSDYPGVHKLYLGIPISPTIAPEGGYIPPNELVYHVLPYLKKSPVYGGI
MVFPYLHHEVNFQSMLRSYARAA

>ADK22841.1 Allergen Sal k 4.02 [Salsola kali]
MSWQAYVDEHLMCNIEDTGNHLTSSAIVGVDGSIWAQSSNFPQVKPQEIEAINKEFDGPN
TLAPTGLFLGGEKYMVIQGEPGAVIRGKKGPGGVCIKKTTQALIFGIYDEPVAPGQCNMV
VERLGDYLIEQGL

>ADK22842.1 Putative Sal k 5, partial [Salsola kali]
KGKGGHNLYHVKGMVYCDTCRIQFITRVSTMMEGATVSLQCRNLTAGTETFKAEAVTDKL
GMYTIKVDGDHEDDICQIVLVKSPGQECSEIPNDVYSEQAAKVTLTSNNGEASDVRNANA
LGFLKKAPLPECPEVLKELDMYDVPGSVTQN

>ADK27483.1 Putative transaldolase [Penicillium chrysogenum]
MSSSLEQLKASGTTVVCDSGDFATIGKYKPQDATTNPSLILAASKKPEYAALIDTAVAYG
KQNGKTLDEQVEATLDRLLVEFGKEILKIIPGKVSTEVDAKLSFDTQGSVNKALEIIKLY
ADNGISKDRVLIKIASTYEGIKAAHILQTQHGINCNLTLMFSLVQAIAAAEAGAYLISPF
VGRILDWYKAAHKRDYTPQEDPGVKSVQDIYNYYKKFGYNTIVMGASFRNVGEITELAGC
DYLTISPNLLEDLFNSTDAVPQKLNPAGAASLEIKKREYLNNEADFRFDFNEEAMGVEKL
REGISKFAADAVTLKQLLAQKIQA

>ADK39021.1 Allergen pollen allergen [Ostrya carpinifolia]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISKVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVNAEEMKGAKEMAEKLLRAVESYLLAHTAEYN

>ADK47394.1 Putative transaldolase [Cladosporium cladosporioides]
MSSSLDQLKASGTTVVCDSGDFATIGKYKPQDATTNPSLILAASKKPEYAKLIDDAVAYG
MKHGKTTEEKIDATFDNLLVQFGSEILKIVPGKVSTEVDARFSFDKDVSIQKALRIIDLY
KEAGIDKERVLIKLASTWEGIQAAHELQTKHGINCNLTLMFSLPQAIAAAEAGAYLISPF
VGRILDWYKANTKQEYNASNDPGVKSVVDIFNYYKKYDYKTIVMGASFRNIGEITELAGC
DYLTIAPALLEQLYNSTDAVPQKLKAEDVAKLDIEKKSYLKDEALFRFDFNEDPMAVNKL
SEGISKFAADAVTLKDILREKIEKA

>ADK47876.1 Putative Tha p 1 allergen [Thaumetopoea pityocampa]
MKLLILALTCAAAVWARPGETYSDKYDTIDVNEVLQSERLLKGYVECLLDKGRCTPDGKE
LKDTLPDALEHECSKCTEKQKSGADTVIRHLVNKRPELWKELAVKYDPENIYQERYKDRL
ESVKEH

>ADK56160.1 Putative Fel d 7 allergen precursor [Felis catus]
MKALLLAVGLSLITVLQAQDPPASGEDTMAMSGKWYLKAMITDRETSWKKPELVTPMTLT
VLEGGNLKAETTLLTNGQCKEVELILEKTSEPKKYTTYGGKRVVYIEPTEVKDHYIFYCE
GEMQGEQARMAKLVGRDPESNEEALENFREFLRAKGFNQEIFSPKQSDTCPPGTDQEPEV

>ADK92390.1 Putative Der p 13 allergen [Dermatophagoides pteronyssinus]
MASIEGKYKLEKSEKFDEFLDKLGVGFMVKTAAKTLKPTFEVAKENDQYVFRSLSTFKNT
EIKFKLGEEFEEDRADGKRVKTVINKDGDNKFVQTQFGDKEVKIVREFNGDEVVVTASCD
GVTSVRTYKRI

>CBW30986.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLLQPVRSAEDLQEILPVNETRRLTTSGAYNIIDGCWRGKADW
AENRKALADCAQGFGKGTVGGKDGDIYTVTSDLDDDVANPKEGTLRFGAAQNRPLWIIFE
RDMVIRLDKEMVVNSDKTIDGRGAKVEIINAGFTLNGVKNVIIHNINMHDVKVNPGGLIK
SNDGPAAPRAGSDGDAISISGSSQIWIDHCSLSKSVDGLVDAKLGTTRLTVSNSLFTQHQ
FVLLFGAGDENIEDRGMLATVAFNTFTDNVDQRMPRCRHGFFQVVNNNYDKWGSYAIGGS
ASPTILSQGNRFCAPDERSKKNVLGRHGEAAAESMKWNWRTNKDVLENGAIFVASGVDPV
LTPEQSAGMIPAEPGESALSLTSSAGVLSCQPGAPC

>CBW30987.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLLQPVRSAEDVEEFLPSANETRRSLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGFAKGTYGGKHGDVYTVTSDKDDDVANPKEGTLRFAAAQNRPLWII
FKRNMVIHLNQELVVNSDKTIDGRGVKVNIVNAGLTLMNVKNIIIHNININHDIKVCPGGM
IKSNDGPPILRQQSDGDAINVAGSSQIWIDHCSLSKASDGLLDITLGSSHVTVSNCKFTQ
HQFVLLLGADDTHYQDKGMLATVAFNMFTDHVDQRMPRCRFGFFQVVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDIIKKNVLARTGTGNAESMSWNWRTDKDLLENGAIFLPSGSD
PVLTPEQKAGMIPAEPGEAVLRLTSSAGVLSCHQGAPC

>CBW30988.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNININHDVKVLPGGMI
KSNDGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSCRPGAPC

>CBW30989.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNININHDVKVLPGGMI

KSNDGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSCRPGAPC

>CBW30990.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNINIHDVKVLPGGMI
KSNDGPPIFRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKKNVLARTGTGVAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSCRPGAPC

>CBW30991.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKKNVLARTGTGVAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSCRPGAPC

>CBW30992.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAKGTYGGKWGDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNIIIHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKKNVLARTGTGVAESMAWNWRSDKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSCRPGAPC

>CBW30993.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
CCYILYFTLALVILLQPVRSAEDLQQILPSVNETRSLTTCGTYNIIDGCWRGKADWAENR
KALADCAQGFAKGTIGGKDGDIYTVTSELDDDVANPKEGTLRFGAAQNRPLWIIFARDMV
IRLDRELAINNDKTIDGRGAKVEIINAGFAIYNVKNIIIHNIIMHDIVVNPGGLIKCNDG
PPAPRKGSDGDAIGISGGSQIWIDHCSLSKAVDGLIDAKHGSTHFTVSNCLFTQHQYLLL
FWDFDERGMLCTVAFNKFTDNVDQRMPNLRHGFVQVVNNNYERWGSYALGGSAGPTILSQ
GNRFLASDIKKEVVGRYGESAMSESINWNWRSYMDVFENGAIFVPSGVDPVLTPEQNAGM
IPAEPGEAVLRLTSSAGVLSCQPGTPC

>CBW30994.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFGKATHGGKWGDIYMVTSDQDDDVVNPKEGTLRFGATQDRPLWIIF
QRDMIIYLQQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLSKSFDGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPRCRFGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

>CBW30995.1 Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD

WAENRQALGDCAQGFGKATHGGKWGDIYMVTSDQDDDVVNPKEGTLRFGATQDRPLWIIF
QRDMIIYLQQEMVVTSDTTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDVWIDHCTLSKSFDGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPRCRFGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

>ADL09135.1 Putative hyaluronidase precursor [Polybia paulista]
SWVEFALSERPKRVFNIYWNVPTFMCHQYGINFDEVTDFNIKHNSKDNFRGETLAIYYDP
GNFPALIPVNNGKYKERNGGVPQRGNITIHLQQFNEDLDKMTPDKSFGGIGVIDFERWRP
VFRQNWGNTEIHKEYSIELVRKEHPKWSKSMIEAEATKKFEKYARYFMEETLKLAKKTRK
RAKWGYYGFPYCYNASPNNPGPSCDAKAIIENDRMSWMYNNQEILLPSVYVRHKQDPEER
IYLVQGRVKEAVRVSNNLEHSPSVLPYWWYVYQDEMEIFLSETDVKKTFQEIVTNGGDGI
IIWGSSSDVNSLSKCKRLREYLLNTLGPIAVNVTETVNRRSSLNF

>ADL32660.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNILPKAAPGAYKNVEIKGDGGVGTIKHITLPD
GGPVTTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPTADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTMLFKAVEAYLIAN

>ADL32661.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNILPKAAPGAYKNVEIKGDGGVGTIKHITLPD
GGPVTTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPTADGGSTTKTTAIF
HTKGDAVVPEENIKYAEEQNTLLFKAVEAYLIAN

>ADL32662.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTMLFKAVEAYLIAN

>ADL32663.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDAVVPEENIKFAEAQNTMLFKAVEAYLIAN

>ADL32664.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTQRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTMLFKAVEAYLIAN

>ADL32665.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNILPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFTIDYSVIDGDVLLGFIDKIENHLSVVPTADGGSTTKTTAIF
HTKGDAVVPEENIKYAEEQNTMLFKAVEAYLIAN

>ADL32666.1 Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNILPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPTADGGSTTKTTAIF
HTKGDAVVPEENIKYAEEQNTMLFKAVEAYLIAN

>P86687.1 Putative RecName: Full=Hyaluronidase; Short=Hya; AltName:
Full=Hyaluronoglucosaminidase [Polybia paulista]
GETISIYYDPGKFPALMPLKNGNYEERNGGVPQRGNITIHLQQFNEDLDKMTPDKNFGGI
GVIDFERWKPIFRQNWGNTEIHKKYSIELVRYEHPKWSESMIEAEATKKFEKYARLFMEE
TLKLAKKTRKRAKWGYYGFPYCYNYTPNNPGPDCDAKAMIENDRLSWMYNNQEILFPSVY
VRHELTPDQRVYLVQGRIKEAVRISNNLKHSPKVLSYWWYVYQDKMDIFLSETDVKKTFQ
EIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNTLGPFAVNVTETVN

>P86686.1 Putative RecName: Full=Venom allergen 5; AltName: Full=Antigen 5; Short=Ag5 [Polybia paulista]
NKYCNIKCSKVAHTVCQTGESTKPSSKNCAKVSITSVGVTEEEKKLIVDEHNRFRQKVAQ
GLETRGNPGPQPAASDMNNLVWNDELAYIAQVWASQCQFFVHDKCRNTAQYQVGQNIAYS
ASTAAYPGVVKLIVLWENEVKDFNYNTGITKENFAKVGHYTQVVWAKTKEVGCGSIKYIE
KGMKSHYLVCNYGPAGNVLGAQIYEIK

>XP_003030591.1 Putative glycoside hydrolase family 15 and carbohydrate-binding module family 20 [Schizophyllum commune H4-8]
MGLASTVSLALLGLCSLARAQTSAADAYVSAESPIAQAGILANIGPSGSKSHGAASGVII
ASPSTSNPDYLYTWTRDAALVSRALVDEFIEGESSLQSVIDSYVSSQQKLQRVDNPSGSY
TSGGLGEPKFNIDLTAFTGAWGRPQRDGPALRAITLITYGNHLLSSGNTSYVTDTIWPVV
KADLDYVVSYWNQTGFDLWEEVSSSSFFTTAEQHTALRLGATFATAVGASASTYLTQADN
VLCFLQSYWNSNGGYATANTGGGRSGIDANTVLTSIHTFDIEAGCDSVTFQPCSDRALSN
LKVYVDSFRGLYSINPTGATDPILTGRYKEDVYYNGNPWYLTTFAVAEQLYDALNTWDKL
GSLDVTSTSLAFFKQFDSSITAGTYASSTSEYATLTSAIRNWADGFLEVLADFTPADGGL
TEQIDKSSGNPTSAADLTWSYASAITAFKARGGAIPASWGAAGLTVPATCSTGGGGGSGG
DTVAVTLNVQATTVYGENIYVTGSVNQLANWSPDNAIALNADNYPTWSVTVNLPANTQIE
YKYIRKNNGQVTWESDPNRSITTSASGSFTQNDTWR

>ADM15668.1 Putative lipid binding protein [Felis catus]
MLKVSSLFILLCGLLASSSTQEVLSRVSSHITDALTQGLLGMNFLPTLQTIDFQGPLKDI
FSLVLGHQLTNGEANFMVQMKDLRLFQVFIETSPDFKGIDLRMPLAFSIQIKFPALNPYI
FHVRTDMKVQLYLEKDVDNRYQLTFGHCRIVPETVWIQSGNFITPMKNFIVENIERALGN
VIIHNFGAKMCPFINSWLYNLNPQVTNQLISLLLQHGTYQATVEIPAK

>ADM18345.1 Putative putative Tab y 1 allergen [Tabanus yao]
MAPIIVPCLLLVVLVLQCSVINSLDYCSLCRGGRGEHVGCGSPGFSSDCGQKARTRKFTK
EHKKVILDKINDVRDHVAKGSWGLPVASRMKVIVWDEELAALAKRHTQGCVPEAYKCRHT
LRFWSPGQLNFEFYADKMPSTMSLISTAIKRGHTQKHNITRDIIEKYQPAGPKGNVKELA
LAISDRVTAVGCGLTTWKLGGKARALLTCNFSSENDYNRPVYKTGNSPGEKCIKKDETFK
NLCSAQEPINPNEHNF

>ADM18346.1 Putative putative Tab y 2 allergen [Tabanus yao]
MKLHQGLVCLSVLILLPTCILGDRKFEVYWNIPTFMCPDQNKTIMDLNKKHGVIQNTEDL
FRGDKISLLYHPGAFPAITRNKTTNTLIYENGGVPQAGNLSLHLKLLEKDINEQITDKNF
SGLAVIDFELWRPIFRQNGGSLSDYQNLSLKLEKDLHPEFNEDQLRKEAERRIEKFGRSF
IKQTLIKAKKLRPKAQWGYYAFPYCFNGRRRYVDTCIPSAKIDNDRILYMFENSDVIYPA
VYLQTDLAQKNQTGLVKGRVDEAVRMAKMVKKPAKPPVLVYHRYVFTDTLEYISKENTTA
VFKAMKDNGADGVIIWGSSFDLNSKEKCAKFLDYLREVLWPVIDEVKRS

>ADM52184.1 Allergen Der f 1 allergen, partial [Dermatophagoides farinae]
RPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEANKGAINHLSDLSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRTVTPIRMQGGCGSCWAFSG
VAATESAYLAYRQTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYVAR
EQRCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVIIGIKDLRAFQHYDGRTII
QHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGYGYFQAGNNLMMIEQYPYV
VIM

>ADN39439.1 Allergen class I chitinase isoform 2 [Castanea sativa]
EQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSPTTTTSSPTASGGGGGDVG
SLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNGFGTTGDVTTRKRELAAFLAQ
TSHETTGGWATAPDGPYAWGYCFIMENNKQTYCTSKSWPCVFGKQYYGRGPIQLTHNYNY
GQAGKAIGADLINNPDLVATNPTISFKTAIWFWMTPQANKPSSHDVIIGNWRPSAADTSA
GRVPSYGVITNIINGGLECGHGSDDRVANRIGFYKRYCDTLGVSYGNNLDCYNQKPFA

>ADN39440.1 Putative prunin 1 precursor [Prunus dulcis]

MAKAFVFSLCLLLVFNGCLAARQSQLSPQNQCQLNQLQAREPDNRIQAEAGQIETWNFNQ
EDFQCAGVAASRITIQRNGLHLPSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESQQSSQ
QGRQQEQEQERQQQQQGEQGRQQGQQEQQQERQGRQQGRQQQEEGRQQEQQQGQQGRPQQ
QQQFRQFDRHQKTRRIREGDVVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNPR
KFYLAGNPENEFNQQGQSQPRQQGEQGRPGQHQQPFGRPRQQEQQGSGNNVFSGFNTQLL
AQALNVNEETARNLQGQNDNRNQIIRVRGNLDFVQPPRGRQEREHEERQQEQLQQERQQQ
GGQLMANGLEETFCSLRLKENIGNPERADIFSPRAGRISTLNSHNLPILRFLRLSAERGF
FYRNGIYSPHWNVNAHSVVYVIRGNARVQVVNENGDAILDQEVQQGQLFIVPQNHGVIQQ
AGNQGFEYFAFKTEENAFINTLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIA
LSSSQQRRAVV

>ADN39441.1 Putative prunin 2 precursor, partial [Prunus dulcis]
CLLLLFNGCLASRQHIFGQNKEWQLNQLEAREPDNHIQSEAGVTESWNPSDPQFQLAGVA
VVRRTIEPNGLHLPSYVNAPQLIYIVRGRGVLGAVFPGCAETFEDSQPQQFQQQQQQQQF
RPSRQEGGQGQQQFQGEDQQDRHQKIRHIREGDIIALPAGVAYWSYNNGEQPLVAVSLLD
LNNDQNQLDQVPRRFYLAGNPQDEFNPQQQGRQQQQQQQGQQGNGNNIFSGFDTQLLAQA
LNVNPETARNLQGQDDNRNEIVRVQGQLDFVSPFSRSAGGRGDQERQQEEQQSQREREEK
QREQEQQGGGGQDNGVEETFCSARLSQNIGDPSRADFYNPQGGRISVVNRNHLPILRYLR
LSAEKGVLYNNAIYTPHWHTNANALVYAIRGNARVQVVNENGDPILDDEVREGQLFLIPQ
NHAVITQASNEGFEYISFRTDENGFTNTLAGRTSVLRALPDEVLQNAFRISRQEARNLKY
NRQESRLLSATSPPRGRLMSILGY

>C7E3T4.1 Allergen RecName: Full=Arginine kinase; Short=AK; AltName: Allergen=Pen m 2 [Penaeus monodon]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSPLFDPIIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>P86739.1 Putative RecName: Full=Parvalbumin beta 1 [Macruronus magellanicus]
SFAGILDDADITAALAACKAEGSFKHVEFFAKIGLAGKKVFAIIDQDKSDFVEEDELKLF
LQVFSAGARALTDAETKAGDSDGDGKIGVDEFAQMIKG

>P86745.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius australis australis]
AFAGILADADITAALAACKAEGTFTHGVFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFAAMVKG

>P86749.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius australis polylepis]
AFAGILADADITAALAACKAEGTFTHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFAAMVKG

>P86761.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius gayi]
AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFAAMVKG

>P86768.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius paradoxus]
AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSPADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFAAMVKG

>P86774.1 Putative RecName: Full=Parvalbumin beta 1 [Merluccius productus]
AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE

DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFTAMIKG

>P86741.1 Putative RecName: Full=Parvalbumin beta 2 [Macruronus magellanicus]
AFAGILADADCAAALKACEAADSFNYKAFFAKVGLASKSAEEIKKAFFVIDQDKSGFIEE
DELKLFLQNFVAGARALTDAETKAFLKAGDSDGDGAIGVDEFAALVKA

>P86750.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius australis polylepis]
AFSGILAEADIAAALKACEAADSFNYKAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDAETKAFLKAGDSDGDGAIGVDEFAVLVKA

>P86752.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius bilinearis]
AFAGILADADIAAALAACKAEGSFKHGEYFAKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFAAMVKG

>P86757.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius capensis]
AFSGILAEADIAAALKACEAAGTFNYKAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDDETKAFLKAGDSDGDGAIGVEEWAALVKA

>P86765.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius merluccius]
AFAGILADADITAALAACKAEGSFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFLQNFSAGARALTDAETATFLKAGDSDGDGKIGVDEFAAMVKG

>P86769.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius paradoxus]
AFSGILAEADIAAALKACEAAGTFNYKAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDDETKAFLKAGDSDGDGAIGVDEWAALVKA

>P86771.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius polli]
AFSGILAEADIAAALKACEAAGTFNYKAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDAETKAFLKAGDSDGDGAIGVDEWAVLVKA

>P86775.1 Putative RecName: Full=Parvalbumin beta 2 [Merluccius productus]
AFSGILAEADIAAALKACAAADTFNYKAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDAETKAFLKAGDSDGDGAIGVDEFAVLVKA

>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]
AFSGILADADIAAALKACEAADSFNYKAFFAKVGLSAKSAEDIKKAFFVIDQDKSGFIEE
DELKLFLQVFSAGARALTDAETKAFLKAGDSDGDGAIGVDEFAVLVKA

>P86770.1 Putative RecName: Full=Parvalbumin beta 3 [Merluccius paradoxus]
AFAGVLADADIKAALAGCAAAESFNYKTFFKACGLAGKFFAIIDQDHSGFIEEDELKLFL

QTFSAGARALSDAETKDVDGDGMIGVDEFVALVKA

>P86772.1 Putative RecName: Full=Parvalbumin beta 3 [Merluccius polli]
AFAGVLADADIKAALAGCAAAESFNYKTFFKFFAIIDQDHSGFIEEEELKLFLQTFSAGA
RALSDAETK

>P86754.1 Putative RecName: Full=Parvalbumin beta 4 [Merluccius bilinearis]
AFAGVLADADIKAALAGCAAADSFNYKTFFKACGLFFAIIDQDHSGFIEEEELKLFLQTF
SAGARALSDAETKTFLAAGDVDGDGMIGVDEFAA

>P86760.1 Putative RecName: Full=Parvalbumin beta 4 [Merluccius gayi]
AFAGVLADADIKAALAGCAAADSFNYKTFFKFFAIIDQDHSGFIEEEELKLFLQTFSAGA
RALSDAETKAFLAAGDSDGDGKIGFVALVKA

>A2V735.1 Putative RecName: Full=Tropomyosin; AltName: Full=Tropomyosin, slow-tonic isoform; Short=Tm-Chio-tonic [Chionoecetes opilio]
MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANLRAEKTEEEIRANQKKSQLVENELDHA
QEQLSAATHKLVEKEKAFANAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>CBW45298.1 Putative thioredoxin [Plodia interpunctella]
MSIHIKDVEDLTARLTEAGDKLVVIDFMATWCGPCKIIGPKLDEIAAEMADSIVVVKVDV
DECEDIATEYSINTMPTFVFVKNGKPVEQFSGANVEKLRSTILKLK

>ADQ53858.1 Allergen Ara h 1 allergen [Arachis hypogaea]
MRGRVSPLMLLLGILVLASVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTTNQRSPPGERTRGRQPGDYDDDRRQPRREEGGRWGPAGP
RERERREEDWRQPREDWRRPSHQQPRKIRPEGREGEQEWGTPGSHVREETSRNNPFYFPSR
RFSTRYGNQNGRIRVLQRFDQRSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNNRRALILTRAMHSESHPFHFLHLDDMTPELRVAKSHAVNTPGQFEDFFP
ASSRDQSSYLQGFSRNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEG
VIVEVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLSDNFGRLFEVKPDKKN
PQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVINKGTGNLELVAVRKEQQQRGRREQE
WEEEEEDEEEEGSNREVRRYTARLKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHR
IFLAGDKDNVVDQIEKQAKDLAFPGSGEQVEKLIKNQRESHFVSARPQSQSPSSPEKEDQ
EEENQGGKGPLLSILKAFN

>ADQ53859.1 Allergen Ara h 3 allergen [Arachis hypogaea]
MAKLLALSLCFCVLVLGASSVTFRQGGEENECQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRRNALRRPFYSNAPLEIYVQQGSGYFGLIFPGCPSTYEEPAQEGR
RYQSQKPSRRFQVGQDDPSQQQQDSHQKVHRFDEGDLIAVPTGVAFWMYNDEDTDVVTVT
LSDTSSIHNQLDQFPRRFYLAGNQEQEFLRYQQQQGSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEFLQHAFQVDRQTVENLRGENEREEQGAIVTVKGGLRILSPDEEDESSRSPPNR
REEFDEDRSRPQQRGKYDENRRGYKNGIEETICSASVKKNLGRSSNPDIYNPQAGSLRSV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVVDSNGNRVYDE
ELQEGHVLVVPQNFAVAAKAQSENYEYLAFKTDSRPSIANQAGENSIIDNLPEEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>CBY17558.1 Putative tropomyosin, allergen Pan b 1 [Pandalus borealis]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFGLQKKLQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>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]
FNPCPYSDDTVKMIVLTRENKKYDFYTLDTIKNHNEFKDTITLKPHVFITHGFTSSATAE
NFVVMAKALLDKGNYLVILTDWRMAACTNEIAGLKLAYYPYAASNTRLVGNYIATVTKML
VQKYNVPMANIRLIGHSLGAHISGFAGKKVQELGLGKYPEIIGLDPAGPSFKSNDCSQRI
CETDANYVQIIHTSNRLGTERTLGTVDFYMNNGYNQPGCGLPIIGETCSHTRAVKYFTEC
IKHECCLIGVPKSKNPQPVSKCTRNECVCVGLNAKTYPKTGSFYVPVESKAPYCNNKGKI
I

>P0CH86.1 Putative RecName: Full=Venom phospholipase A1; AltName: Allergen=Ves s 1 [Vespula squamosa]
GSKCPFSDDTVAMVIVTRENRNRDFYTLQTLRNHDEFKKKAITRPVVFITHGFTSSATVE
SFVDLQTAILEXXXXKVTVSDWRVAACNRTTGLLYYVTAVSNTRLVGRYIATVTKKLVTD
YNVSMADIRLIGHSLGAHVSGFAGKEVQKLKLEKYSEIIGLDPAGPSFESNDCAERLCKT
DAHYVQIIHTSKKFGIEKSIGHVDFYVNQGNNQPGCGIIPLKDVCSHSRAITYMTECIKR
ECCLIGIPQSKSSKSISSCTRQECVCVGLKAKSYPNTGSFYVPVESTAPFCNNKGKII

>P0CH88.1 Putative RecName: Full=Venom protease; AltName: Allergen=Bom t 4 [Bombus terrestris]
VVGGKPAKLGAWPWMVALGF

>ADR66939.1 Allergen non-specific lipid transfer protein [Prunus persica]
MAYSAMTKLALVVALCMVVSVPIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>ADR66943.1 Allergen non-specific lipid transfer protein [Prunus avium]
MACSAMTKLALVVALCMVVSVPIAQALTCGQVSSNLAPCIPYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAAALPGKCGVNVPYKISPSTNCATVK

>ADR66944.1 Allergen non-specific lipid transfer protein [Prunus avium]
MACSSMTKLALVVALCMVVSVPIAQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAAALPGKCGVNVPYKISPSTNCATVK

>ADR66945.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPIAQAQAITCGQVVSTLAPCINYVKSGGAVPPACCNGIR
TLNGLAKTTADRQAACNRLKQLSGSIPGVNPNNAAALPGKCGVNVPYKISISTNCAAVK

>ADR66946.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPIAQAITCGQVSNSVAPCIPYVIGGGAVPPACCNGIRNV
ENLAKTTADRQAACNCLKQLSGSIPGVNPNNAAALPGKCGVNVPYKISISTNCAAVK

>ADR66947.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAAALPGKCGVNIPYKISASTNCATVK

>ADR66948.1 Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAAALPGKCGVNIPYKISISTNCAAVK

>ADR82196.1 Putative hevamine [Hevea brasiliensis]
GGIVIYWGQNGNEGTLTQTCSTRKYSYVNIAFLNKFGNGQTPQINLAGHCNPAAGGCTIV
SNGIRSCQIQGIKVMLSLGGGIGSYTLASQADAKNVADYLWSNFLGGKSSSRPLGDAVLD
GIDFDIEHGSTLYWDDLARYLSAYSKQGKKVYLTAAPQCPFPDRYLGTALNTGLLTMYGF
NSITIHHASIAQVTLTTSLTRGIDGPHL

>ADR82198.1 Putative Per a 2 allergen [Periplaneta americana]
MTFLIQSAFVALAAISAVLCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPSASCVSGGCNCANVHKYYSNKPVSNNVASVRILGSGYANGSEAHDYIAVSTLNA
TNQGFLLADDISNDICSLGADCVIGLGRPKSGRAAFNLPTVMENFVNQDNIANSFSFHHG
RYPDGQHRGVLVLGGTIPAYYRGDFTYVPLVDKDTWNFKVDSISVGNEVVATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTLCVFDCDKLDNVPSVTFTIGGVAFNISSTY
HIQQNGDLCYSGFQYSAGKCFHFGDFFMDNYYAKFDGQNKRMGFAKSVEEL

>3LIZ_A Allergen Chain A, Crystal Structure Of Bla G 2 Complexed With Fab 4c3 [Blattella germanica]
EAEASIVPLYKLVHVFINTQYAGITKIGNQNFLTVFDSTSCNVVVASQECVGGACVCPNL
QKYEKLKPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELSQEVCIL
SADVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHARFQDGEHFGEIIFGGSDWK
YVDGEFTYVPLVGDDSWKFRLDGVKIGDTTVAPAGTQAIIDTSKAIIVGPKAYVNPINEA
IGCVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQPCGH
SDHFFIGDFFVDHYYSEFNWENKTMGFGRSVESV

>CBY83816.1 Allergen hyaluronidase [Vespa magnifica]
MLLVTLFLFFLQALVNGDSCGSNCEKSERPKRVFNIYWNVPTFMCHQYGLYFDEVTNFNI
KHNSKDNFQGDKIAIFYDPGEFPALLPLNYGKYKIRNGGVPQEGNITIHLQRFIEYLDKT
YPNRNFSGIGVIDFERWRPIFRQNWGNMKIYKNFSIDLVRKEHPFWNKKMIELEASKRFE
KYARLFMEETLKLAKKTRKQADWGYYGYPYCFNMSPTNFVPDCDVTARDENNEMSWLFNN
QNVLLPSVYIRRELTPDQRIGLVQGRVKEAVRISNKLKHSPKVFSYWWYVYQDETNTFLT
ETDVKKTFQEIVINGGDGIIIWGSSSDVNSLSKCTRLREYLLTVLGPIAVNVTEAVN

>ADT89774.1 Putative phospholipase A1 [Polybia paulista]
GLIPECPFNEYDILFFVYTRDKQDGIILKKNNLTSYNLFQQPQISHRVVFLIHGFISTGN
NGNFDAMAKALIAKDNFLVMSVDWRRAACDASVFNVAGYSKAVANTRRVGKYVADFTKIL
VDKYKVPMSNIRLIGHSLGAHTSGFAGKQVQKLKLGKYSEIIGLDPAGPSFRSTNCPDRL
CETDAQYVQVLHTSSKLGTYDQIGSVDFYVNYGGSQPGCLVRTCSHTKAVLYMTECIKRE
CCLIGTPWSSTGSSPKPKPISACKRDICVCVGLNAKSYPAKGSFYVPVEKNSPYCHNEGI
KL

>ADV17342.1 Putative myosin light chain [Penaeus monodon]
MSRKSGSRSSSKRSKKSGGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFTMLLNMFAERQTGESDDDDVVAKAFLAFADEGGNID
CDTFRHALMTWGDKFSSQEADDALDQMDIDDAGKIDVQSVIQMLTAGGGDDAAAEEA

>ADV17343.1 Putative sarcoplasmic calcium binding protein [Penaeus monodon]
MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGKKYGDFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSAFAEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>BAJ61596.1 Putative paramyosin [Haliotis discus discus]
MDYGDVSSKVVRTVSHRSYNVYRGSSPATQNRLEARIRELEDALDTERDCRVRAEKNLAE
ITFQYDQVADRLEEQGGVTVQQIEINKKRESELNKVRKDLELAVISHESAEASLRKRNQE
TINDLTDQLEYMTKQKNRVEKEKHQLIIEIDTLQGMTDSLAKAKSSAESRADGLQGSVDR
LKLQVDDLSRQLTDANSAKARLTQENFDLQHQVQELDSANAALAKAKSQLQASNDDLKRQ
LDDESRQRQNLQVQFSQLQSGYDNLNARYEEESESASTLRTQLSKVNAEFAALKARFEKE

LMAKSEALEELRRRLNTRIAQLEDECETLRARNNNLEKTKAKLTAEIKEITIELENTQII
VQDLTKRNRTLENENGILQRRCDELGAEVSALRAEKASLEAEVHRLRVANAELTERNDNL
QRENKNLSDQLREAQLALKDANRELNELRQIRAQLEMERDSLASQLRDTEEALRDAEGKL
AAAQAALNQLRIDMENRLREKDEEIDNIRRSSARAIEELQRTLIEVETRYKTEISRIKKK
YETDIRELEGALDNANKANAEYLKQIRSLQLRVKELEVLLEEERRLADDLRGQLSISERK
RIALQQEVEDVRSLLEAAERARKNAENELNDANARLSELQIQVTALSNDKRRMEADISAM
QSDLEDAINAQRAAEERADRLFNENVRLADELKQEQENYKNAESLRKQLEIEIREITVRL
EEAEAFATREGKRMVAKLQARIRDLEAELEAEQRRVREAFATSRKLERQYKEIQMQTEDD
RRILAETMSINDQLSMKVKAYKRQIEESEDVANLTMNKYRKAQQLIEEADHRADMAEKNL
VAVRRSRSMSVTRDVKIVRI

>CBY93636.1 Allergen allergen 5 protein [Vespa magnifica]
MKISGFVYLILITTIINLSFSEANNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKGSGLT
KAEKLEILKQHNEFRQKVARGLETRGKPGPQPPAKSMNTLVWNDELAQIAQVWASQCKYG
HDDCRNTAKHSVGQNIAQQSTTAASFGSVSNMVQMWADEVKNYQYGSTKNKLIEVGHYTQ
MVWAKTKEIGCGSIKYIENGWHRHYLVCNYGPAGNIGNEPIYEKK

>ADW27428.1 Putative 16 kDa major allergen [Fagopyrum tataricum]
MKLFIILATATLLIAATQAKYLRDEGFDLGETQMSSKCTRQVKMMEPELVKCNRYIAMDI
MDDKYEEALSRIQGEGCESEEKFLRGCCVAMKEMEDECVCEWMKMMVENQKGRIGETLMR
KGIRDLKELPNKCGISEMECHSRGNWYYV

>2X45_A Allergen Chain A, Crystal Structure Of Arg R 1 In Complex With Histamine [Argas reflexus]
MDDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTDFKENTKTATYTYGYKDAS
GKLTKTTGTATAKGSDIVVGSDTSTVIYTDGKTCDVVKHGGHTELWVHSSKTSGGYNNCC
DKKFTETRGSTPANEVYKKCPGMP

>ADX78255.1 Allergen Tab y 3 allergen [Tabanus yao]
MFKITVFIYVLQLILPSKVHSSPVPDSDNGLREFPLSIVHINDFHARFEQTDELGGQCKP
TAKCVGGYARLVTTVKKLKEEGQNTIFLNAADNYQGTLWYNLGKWNVTAYFMNLLPADAM
TLGNHEFDDKIEGIVPFLEVIKTPIVVANIDDSLEPTFKGKYTKSVVLERGGRKIGIVGV
IAQNTDNISSPGKLRFLDEIQSVKNESKRLREEEKVDIVIVLSHIGLDHDYDLAEQAGDY
IDAIIGGHSHSFLWTGDNPPGKEKVVDAYPVEIVQTSGKKVLIVQASAFARYVGNITLYF
GENNNLIRYAGAPVYLDSDVPEVPQIVEEMKAWEEFVHEKGNEIIAESRVVLSRENCRVS
DCNIGNFFTDAYVHEYVTSHTGPYWTPVSVGLMNVGGIRASVDRGNITFSQLITMAPFEN
TVDTFDLSGKHLLEAFEHAVTVPNRLGFNGQNMLQVSGVKLVYDVTKCEGQRVVSAKIRC
QKCDIPKYEPLDPEETYRIVTASFLANGGDGFTMIRDNKKNYKVGRKDYDVLINYAKYSS
PITIGEEGRIRIIQ

>BAJ78220.1 Putative Ani s 11 allergen precursor [Anisakis simplex]
MHSTAILLLVLQLSCYFAASFILPGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKD
NAGQRQVNIPPPFIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPPQSGQLPIG
GPGPVVSGSGIGGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKDNAGQRQVNIPPP
FIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPPQSGQLPIGGPGPVVSGSGIG
GGANPPRFPVGGPGPIISGDGVNVLQKANSIPKLKGNANPPQLPVGGPGPVISVDGESVL
QKEENSL

>BAJ78221.1 Putative Ani s 11-like protein precursor [Anisakis simplex]
MHSTAILLLVLQLSCYFAASFILPGDHGLPVGGPGPVISVDGKNVWEDANGMSELHGPGP
VVSGSGIGRVFPPRSGQLPIGGPGPVVSGSGIGGGANPPRFPVGGPGPIISGDGVNVWQK
ANSIPKLKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>BAJ78222.1 Putative Ani s 11-like protein 2 precursor [Anisakis simplex]
VGGPGPVISVDGKNVWEDANGMSELHGPGPVVSGSGIGRVFPPRSGQLPIGGPGPVVSGS
GIGGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKDNAGQRQVNIPPPPFIRGPGPV
VSGSGIGEVGQVPIGGPGPVVSASGRVFPPLRGPLPIGGPGPVVSGSGIGRVFPPRSGQL

PIGGPGPVVSGSGIGQVFPPQSGQLPIGGPGPVVSGSGIGGGANPPRFPVGGPGPIISGD
GVNVWQKANSIPKLKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>BAJ78223.1 Putative Ani s 12 allergen precursor [Anisakis simplex]
MLSHLWLIQLCIVAVLSNSEREEFAFLCPVVKNLPPSVREQCIESQIVIRDCKEKKYGEN
CAELIKQCVTITGAPPVTIGGSGQYRVASSLRDCIKKGGYMGYCSNFTTHENCIKWKDEC
APSEAAEKKDENSLEVFPETFSQCFKSQVVMQQCMNEGEEECSKIEKECVDALGTPPVTT
AANGAYQMAAPLHRCIENGGWMKMCSTWINATICERWKQECSRDKDAEPPTNFSQCIQTQ
TVMLQCKLEFGDKCKALQEECVAATYAPTAYVDANPPIFTSETIRCVQRKMAKGL

>CAX62129.1 Putative allergen lipocalin Cav p 2.0101 precursor [Cavia porcellus]
MMQILLLALAVSLACADSIDYSKVPGNWRTIAIAADHVEKIEVNGELRAYFRQVDCTEGC
DKISITFYTNTDGVCTEHTVVGARNGENDVYTVDYAGENTFQILCNSDDAFVIGSVNTDQ
NGQTTKEVAIAAKRNFLTPEQEQKFQKAVQNAGIPLENIRYVIETDTCPD

>CAX62130.1 Allergen allergen lipocalin Cav p 3.0101 precursor [Cavia porcellus]
MQILLLALTIGLAYAHQTLDPSEINGQWHTISIAADNVEKIGEGGPLRGYFHNLHCYDGC
KNIGLTFYVKLDGNCQRFDVLGAKQEDSDVYVAQYSGTNHFEVIGKKEDAIAFYNHNTDE
TGKETKMIVVVARRDSLTEEEQQKLQEVAGEKGIPKDNIRYFRERDTCAQ

>BAK09232.1 Putative parvalbumin [Evynnis japonica]
MPFKGLQDADVAKALEGCKDAGTFDHKKFFHACGLSGKSGADVKDAFFVIDQDKSGFIEE
EELKLFLQNFKAGARALTDEETKKFLKAGDSDGDGKIGADEFAEMVKV

>BAK09233.1 Putative parvalbumin [Evynnis japonica]
MAFSGVLSDADMKAALDGCSAADSFDYKKFFKACGLSGKSADEVKKAFAIIDQDKSGFIE
EEELKLFLQNFGKSARALTDKETKAFLAAGDSDGDGKIGVDEFAALVKA

>CBG76811.1 Putative pollen allergen Sec c 5 [Secale cereale]
MAVQQYTVALFLAVALVAGPAVSYGTYAPAAPGTQPKATTPEQKLMENINNGFKAAVEAA
AAVAPADKYKTFQTTFIKGSNKAFADVLTAAASGQIPAQSDSMARLSTSLESSYKLAYDS
AEGATPETKYDTYVASLTESLRVISGAFEVHAVKPASEEVKGVPAPQLKVVDQIDAAYRT
AATAANAAPTNDKFNVFESSFNKAIKENTGGAYASYTFVPALESAVKQAYAATVASAPEV
KYAVFQAALSKAINAMVEAEKDAKPAAAAAATATATATVGAAAGAAAGGYKA

>Q40240.2 Allergen RecName: Full=Major pollen allergen Lol p 5a; AltName: Full=Allergen Lol p Ib; AltName: Full=Allergen Lol p Va; AltName: Allergen=Lol p 5a; Flags: Precursor [Lolium perenne]
MAVQKYTVALFLAVALVAGPAASYAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKAAVAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTAYDVAY
KAAEATPEAKYDAFVTALTEALRVIAGALEVHAVKPATEEVLAAKIPTGELQIVDKIDAA
FKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFIPSLEAAVKQAYAATVAAA
PEVKYAVFEAALTKAITAMTQAQKAGKPAAAAATAAATVATAAATAAAVLPPPLLVVQSL
ISLLIYY

>P85524.1 Putative RecName: Full=Kirola; AltName: Allergen=Act d 11 [Actinidia deliciosa]
MDLSGKMVKQVEILSDGIVFYEIFRYRLYLISEMSPVNIQGVDLLEGNWGTVGSVIFFKY
TIDGKEKTAKDIVEAIDEETKSVTFKIVEGDLMELYKTFIIIVQVDTKGEHNSVTWTFHY
EKLKEDVEEPNTLMNFCIEITKDIETYHLK

>AEE98392.1 Putative Manioc Glu [Manihot esculenta]
MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEEPKEAEPVAVSEEPKGGDD
APAEVAVETKEVVEVEEAKTVTEEPTVEKTEEEEETPKEETPEPVVVKETPKEEPTAETV
VEEAPKETTEAATEAEAPAPESAPASAPETPAEEEVPKEEEGDEKKSEAEVEAEKTE

>AEH31546.1 Putative low molecular weight glutenin [Triticum aestivum]
MKTFLIFALLAIVATSAIAQMENSHIPGLERPSQQQPLPPQQTLSHHQQQQPIQQQPQPF
SQQQPCSQQQQQPLSQQQQPPFSQQQPPFSQQQQQPLSQQQQPPFSQQQPPFSQQQQPPF
SQQQPPFSQQQQPVLPQQPSFSQQQLPPFSQQQSPFSQQQQIVLQQQPPFLQQQQPSLPQ
QPPFSQQQQQLVLPQQQIPFVHPSILQQLNPCKVFLQQQCSPVAMPQSLARSQMLQQSSC
HVMQQQCCQQLPQIPQQSRYEAIRAIIYSIILQEQQQVQGSIQTPQQQPQQLGQCVSQPQ
QQSQQQLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTTSVPF
GVGTGVGSY

>CBM42660.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
MAWRKEEGAMTMLRALLVVALAVCGAHAAGDKKKAEESKKGDSPAAAAASGPGGSFDITK
LGASGDGKTDSTKALEEAWASACGGKGKQTILIPKGDYLTGALNFTGPCTGDVTFQLDGN
LLASTDLSQFKANWIEILRVDNLVITGKGKLDGQGSAVWSKNSCAKKYDCKILPNSLVLD
FCNKAEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPNTDGIHMGDSSGVSIIDT
TIGVGDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSSN
GLRIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTF
KDITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42661.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
MAWGAMTMLRALLVVALAVCGAHAAGDKKKAEESKKGDSPAAAAASGPGGSFDITKLGAS
GDGKTDSTKALEEAWASACGGKGKQTILIPKGDYLTGALNFTGPCTGDVTFQLDGNLLAS
TDLSQFKANWIEILRVDNLVITGKGKLDGQGSAVWSKNSCAKKYDCKILPNSLVLDFCNK
AEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPNTDGIHMGDSSGVSIIDTTIGV
GDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSSNGLRI
KAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDIT
GTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42662.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
MAWRKEEGAMTMLRALLVLALAVCGAHAGAKKAEESKKGDSPAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKGKQTILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQGQAVWSKNSCAKKYDCKILPNSLVLDFC
NKAEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPNTDGIHMGDSSGVSIIDTTI
GVGDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKD
ITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42663.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
MAWRKEEGAMTMLRALLVLALVVCGAHAGAKKVEESKKGDSPAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKGKQTILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQGQAVWSKNSCAKKYDCKILPNSLVLDFC
NKAEVSGISIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPNTDGIHMGDSSGVSIIDTTI
GVGDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKD
ITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>CBM42664.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
ITGINITGVTCGPGHGISVGSLGRYKDEKDVTDINVKGCTLKKTSNGVRIKSYEDAASVL
SASNLHYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVKVEYKGTNNKTMAVCNNAKGSSTGCLKELACL

>CBM42665.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
STGINITGVTCGPGHGISVGSLGRYKDEKDVTDINVKGCTLKKTSNGVRIKSYEDAASVL
SASNLHYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVKVEYKGTNNKTMAVCNNAKGSSTGCLKELACL

>CBM42666.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
STKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS

LLCSDSTPCSGITMNNVKVEYSGSNNKTMAVCKNAKGSATGGLKELACF

>CBM42667.1 Allergen group 13 grass pollen allergen [Paspalum notatum]
STKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSSNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVKVEYSGSNNKTMAVCKNAKGSATGGLKELACF

>AEK65120.1 Putative arginine kinase [Amphioctopus fangsiao]
MAEELFKTLQNAKECHSLLKKHLTKERFDKLKGLKTKFGGTLADCIRSGCKNPDSGVGIY
ASDPDAYTVFAEVLDAVIMDYHKIDKVHHPIPDFGDVNNLNIGDLDPSGNMIVSTRVRVG
RSHDSFGFPPVLKKDDRIKMEQVSVEALKSLDGELAGSYFPLANMSADVQKQLTEDHFLF
NDSDRFLKAASGYDDWPIGRGIYFSENKTFLCWVNEEDHLRLISMQKGGNLGEVYKRLVS
AINKMEKKLNFAKKDNMGYLTFCPSNLGTTMRASVHIKIPKLSQRSDFKSICDKYNLQAR
GIHGEHTESVCGVYDISNKRRMGLTEYEAVTEMMRGVNEIIREETNST

>2XV9_A Putative Chain A, The Solution Structure Of Aba-1a Saturated With Oleic Acid [Ascaris suum]
GSPEFHHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKE
ATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIAD
FGPACKKIYGVHTS

>AEM89226.1 Putative enolase, partial [Fenneropenaeus merguiensis]
FTEAMRMGSEVYHHLKAVIKGRFGLDATAVGDEGGFAPNILNNKDALTLIQESIEKAGYT
GKIEIGMDVAASEFYKGENIYDLDFKTANNDGSQKITGDQLRDMYMEFCNEFPIVSI

>CCD28287.1 Allergen pollen allergen Phl p 5 [Phleum pratense]
MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEE
QKLIEKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAEGLSGEPKGAAESSSKA
ALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKVIP
AGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNNAIKASTGGAYESYKFIPALEA
AVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATSAVGAATGAA
TAAAGGYKV

>3S7E_A Allergen Chain A, Crystal Structure Of Ara H 1 [Arachis hypogaea]
MSRNNPFYFPSRRFSTRYGNQNGRIRVLQRFDQRSRQFQNLQNHRIVQIEAKPNTLVLPK
HADADNILVIQQGQATVTVANGNNRKSFNLDEGHALRIPSGFISYILNRHDNQNLRVAKI
SMPVNTPGQFEDFFPASSRDQSSYLQGFSRNTLEAAFNAEFNEIRRVLLEENAGGEQEER
GQRRWSTRSSENNEGVIVKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLS
NNFGKLFEVKPDKKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKGTGNLELV
AVRKEQQQRGRREEEEDEDEEEEGSNREVRRYTARLKEGDVFIMPAAHPVAINASSELHL
LGFGINAENNHRIFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKNQKESHFVSAR

>AEQ28167.1 Putative tropomyosin [Anisakis simplex]
MDAIKKKMQAMKIEKDNALDRADAAEGKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSTANSNLEEKEKKVQEAEAEVAALNRRMTLLEEELERAEERLKLATXKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQLKEXQMLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLEDELVHEKERYKSISEELDQTFQELSGY

>NP_001238443.1 Putative 2S albumin precursor [Glycine max]
MTKFTILLISLLFCIAHTCSASKWQHQQDSCRKQLQGVNLTPCEKHIMEKIQGRGDDDDD
DDDDNHILRTMRGRINYIRRNEGKDEDEEEEGHMQKCCTEMSELRSPKCQCKALQKIMEN
QSEELEEKQKKKMEKELINLATMCRFGPMIQCDLSSDD

>AET05730.1 Putative lipid transfer protein isoform a, partial [Pyrus communis]
AHAITCSQVSSNLAPCINYVRSGGAVPPACCNGIKTINGLANTTPDRQAACNCLKNLAGS
VSGVNPGNAESLPGKCGVNVPYKISTSTNCATVK

>AET05732.1 Putative lipid transfer protein isoform c, partial [Pyrus communis]
AHAITCSQVSSNLAPCINYVRSGGAVPPACCNGIKTINGLANTTPDRQAACNCLKNLAGS
VSGVNPGNAESLPGKCGVNVPCKISTPTNCATVK

>AET05733.1 Putative lipid transfer protein isoform d, partial [Pyrus communis]
AHAITCSQVTSNLGACIGYVKNGGVVPPACCNGIRTVNGLARTTADRQTTCNCLKSLAGS
IKGVNPNNAATLPGKCGVNVPFKISTSTNCATVK

>AEV23867.1 Allergen glutathione S transferase class delta variant 1 [Periplaneta americana]
MTIDFYYLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPQHTIPTLNDN
GFCLWESRAILSYLADQYGKDDSLYPKDAKKRALVDQRLYFDIGTLYHRFGEYYYPIYFA
KQAADPEKMKKLEEAFEFLNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGCLKFKEMCDNLAKK

>AEV41413.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAIFSSNSATSSSLPSRTTSILLVLFIASLSITDAQVGVCYGMLGNNLPPASQVISLYKQ
ANIKRMRIYDPNQAALQALRGSNIQLMLGVPNSDLQSLTNPSNANSWIQRNVRAFWPSVR
FRYIAVGNEISPVNGGTASLAKFVLPAMRNIYNAIRSAGLQDQIKVSTAIDMTLIGNSYP
PSAGAFRGDVRSYLDPIIGFLSSIRSPLLANIYPYFSYAGNPRDISLPYALFTSPSIVVW
DGQRGYKNLFDAMLDALYSALERAGGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLIQ
HVKGGTPKRPGRFIETYLFAMFDENQKQPEFEKHFGLFFPNKQQKYNLNFGAKKNWDISA
DYNATVLLLKSDI

>AEV57471.1 Allergen thaumatin-like protein 2 [Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFELATG
ISNSVDAPSPWSGRFFGRTRCSTDASGKFSCATADCGSGQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVSLVDGFNLPMAVAPQGGTGECKASTCPADVNAVCPAELQVKGSDGSVIAC
KSACLALNQPQYCCTPPNDKPETCPPTEYSKIFKDQCPQAYSYAYDDKSSTFTCSARPDY
LITFCP

>B3A0N2.1 Putative RecName: Full=Non-specific lipid-transfer protein; Short=LTP [Lycium barbarum]
GPLGGCCGGIKKSAAAGISGINYGIAAGLPGKCGVNIPYKISPSTDCSKVQ

>AEX34122.1 Putative 60S acidic ribosomal phosphoprotein P1 [Penicillium crustosum]
MSTAELACSYAALILADDGIEISADKIQTLISAANVQEVEPIWASIFARALEGKDIKELL
TNVGSAGPASAAPAGAAGAAAPAEEKAEEKEEEKEESDEDMGFGLFD

>AEY79726.1 Putative cyclophilin [Daucus carota]
MANPKVFFDMTIGGTPAGKIVMELYADTTPKTAENFRALCTGEKGTGKSGKPLHYKGSSF
HRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFERKHTGPGILSMANAGPGTNGSQFF
ICTAKTEWLDGKHVVFGKVVEGMDVVKAIEKVGSGSGKTSKPVAIADCGQC

>AEY79727.1 Putative isoflavone reductase-like protein [Daucus carota]
MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFVHG
DLYDHGSLVKAIKQVDVVISALGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSAFAAKALFRRTVEAAGVPFTYVACNFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLNKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPEEQVLKNIQESPVPINVLLSISHSAFVKGDQTSFEIEPSYGVEASALYPDVKYTTVDV
YLSQFV

>AEY79728.1 Putative isoflavone reductase-like protein [Daucus carota]
MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFVHG

DLYDHGSLVKAIKQVDVVISTLGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSAFAAKAQFRRTVEAAGVPFTYVACDFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLNKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPEEQVLKSIQESPVPINVLLSISHSAFVKGDQTSFEVEPSFGVEASALYPDVKYTTVDE
YLSQFV

>CCF72371.1 Putative lipocalin-Can f 6 allergen [Canis familiaris]
MKLLLLCLGLILVHAHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVK
DIEVLSNSSLIFTMHTKVNGKCTKISLICNKTEKDGEYDVVHDGYNLFRIIETAYEDYII
FHLNNVNQEQEFQLMELYGRKPDVSPKVKEKFVRYCQGMEIPKENILDLTQVDRCLQARQ
SEAAQVSSAE

>AFA45339.1 Putative arginine kinase [Procambarus clarkii]
MADAATIAKLEEGFKKLEAATDCKSLLKKYLSKSIFDSLKAKKTGLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYSLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKFV
ISTRVRCGRSLEGYPFNPCLTEAQYKEMEEKVSSTLSGLEGELKGTYYPLAGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIYHNDNKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVSAVNDIEKRVPFSHHDRLGFLTFCPTNLGTTIRASVHIKLPKLAANREKLEEV
AARYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMA

>AFA45340.1 Putative arginine kinase [Scylla paramamosain]
MADAAVIEKLEEGFKKLEAATDCKSLLKKYLTKSVFDQLKGKKTSLGATLLDVIQSGVEN
LDSGVGVYAPDAEAYTLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKFV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMESKVSSTLSNLEGELKGTYYPLTGMTKDVQQK
LIDDHFLFKEGDRFLQAANACRYWPTGRGIYHNDNKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVSAVNEIEKRVPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMQ

>P86137.2 Allergen RecName: Full=Non-specific lipid-transfer protein 1;
Short=LTP1; Short=nsLTP1; AltName: Allergen=Act d 10.01 [Actinidia
deliciosa]
AVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLKSMTGTKVPDRQAACNCLKQAAARY
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]
TVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLKSMTGTKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>CBL79147.1 Allergen aldolase A [Salmo salar]
MPHAFPFLTPDQKKELSDIAHKIVAQGKGILAADESTGSVAKRFQSINTENTEENRRLYR
QLLFTADERAGPCIGGVIFFHETLYQKTDAGKTFPQHVKSRGWLVGIKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKDGCDFAKWRCVLKITSTTPSRLTIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAMYKALSDHHVYLEGTLLKPNMVTAGHSC
SHKYTHQDIAMATITALRRTVPPAVPGITFLSGGQSEEEASINLNVMNQCPLHRPWAITF
SYGRALQASALKAWGGKPKNGKAAQEEFIKRALANSLACQGKYVSSGDSAAAGDSLFVAN
HAY

>CBL79145.1 Allergen enolase [Thunnus albacares]
MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALELRDNDKTRYMGK
GVKRAVKYINEFLAPALCNQDVTVIEQEKIDKLMLDMDGTENKYKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPEVILPVPAFNVINGGSHAGNKLAMQEFMILPVGASSFKD
AMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNILENKEALKLLKNAIGKAGYTDKI
VIGMDVAASEFYKGGKYDLDFKSPDDPSRYIPSDKLADLYKGFVKDYPVVSIEDPFDQDD

WEAWSKFTASTSIQVVGDDLTVTNPKRIAKGVAEKSCNCLLLKVNQIGSVTESLQACKMA
QSSGWGVMVSHRSGETEDTLISDLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKNFRHPI

>CBL79146.1 Allergen enolase [Salmo salar]
MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALELRDNDKTRYLGK
GVKRSVKYINEFLAPALCNQDVSVLEQEKVDQLMLDMDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPNVILPVPAFNVINGGSHAGNKLAMQEFMTLPVGASTFKE
AMRIGAEVYHNLKNVIKKNYGQDATNVGDEGGFAPNILENKEALELLKEAIGKAGYTDKI
VIGMDVAASEFYKDGKYDLDFKSPDDPSRYITPDQLGDLYKSFVKDYPVVSIEDPFDQDD
WAAWSKFTAETSIQVVGDDLTVTNPKRIAKGVADKACNCLLLKVNQIGSVTESLQACKMA
QTNGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEELGDK
AVFAGKNFRHPI

>AFJ68065.1 Allergen Der p 1 variant, partial [Dermatophagoides pteronyssinus]
EARPSSIKTFEEYKKAFNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDLSLDEFK
NRFLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFS
GVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVA
REQSCRRPNAQRFGISNYCQIYPPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTI
IQRDNGYQPNYHAVNIVGYSNAQSVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPY
VVIL

>AFJ68066.1 Allergen Der f 1 variant, partial [Dermatophagoides farinae]
EARPASIKIFEEFKKAFNKNYATVEEEEVARKNFLESLKYVEANKGAINHLSDLSLDEFK
NRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDLRSLRTVTPIRMQGGCGSCWAF
SGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYV
AREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVIIGIKDLRAFQHYDGRT
IIQHDNGYQPNYHAVNIVGYGSTQGVDYWIVRNSWDTTWGDSGYGYFQAGNNLMMIEQYP
YVVIM

>AFJ68067.1 Allergen Der p 2 variant 1, partial [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIRD

>AFJ68070.1 Allergen Der p 2 variant 4, partial [Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSETCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>AFJ68072.1 Allergen Der f 2, partial [Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFTLEALFGANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLIGDNGVLACA
IATHGKIRD

>AFJ97274.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVCYGMQGNNLPSVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDKIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSSRSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>AFJ97275.1 Allergen beta-1,3-glucanase [Hevea brasiliensis]

MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVCYGMQGNNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RIRYIAVATKLVPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHSGLFFPDKRPKYNLNFGAEKNWDIS
TEHDATILFLKSDM

>3V0R_A Allergen Chain A, Crystal Structure Of Alternaria Alternata Allergen Alt A 1 [Alternaria alternata]
MDTASCPVTTEGDYVWKISEFYGRKPEGTYYNSLGFNIKATNGGTLDFTCSAQADKLEDH
KWYSCGENSFMDFSFDSDRSGLLLKQKVSDDITYVATATLPNYCRAGGNGPKDFVCQGVA
DAYITLVTLPKSS

>AFM77001.1 Putative pathogenesis related protein 5, partial [Malus x domestica]
LTGFELASKASRSVDASSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPP
ATLVEITIAANGGQDYYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNAACPAQLQVK
AADGSVISCKSACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSYAYDDKNST
FTCSGGPDYVITF

>CCK33471.1 Putative wheat serine proteinase inhibitor like antigen [Triticum aestivum]
MSPVVKKPEGRNTDTSDHHNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLDKIAQVPRVG

>3TSH_A Allergen Chain A, Crystal Structure Of Phl P 4, A Grass Pollen Allergen With Glucose Dehydrogenase Activity [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
QVSHIQSAVVCGRRHSVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLLNRQNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKGK
VDPTDYFRNEQSIPPLIKKY

>P86360.1 Putative RecName: Full=Allergen Tha p 2; AltName: Allergen=Tha p 2; Flags: Precursor [Thaumetopoea pityocampa]
MKLLIFAILIALSSSVPQLSEKAEEAVDLAYQEKNNLFDLGSVAGDILSRSGCHVSFGCH
KGYCWAGCGDPTNPWSWGENWCYTTKSYSQSYSYVQCTQDSECDGCWKCGGPCSA

>P86888.1 Allergen RecName: Full=Peamaclein; AltName: Allergen=Pru p 7 [Prunus persica]
GSSFCDSKCGVRCSKAGYQERCLKYCGICCEKCHCVPSGTYGNKDECPCYRDLKNSKGNP
KCP

>AFV53352.1 Putative tropomyosin [Oreochromis mossambicus]
MDAIKKKMQMLKLDKENALDRAEQAESDKKAAEDRSKQLEDDLVALQKKLKGTEDELDKY
SEALKDAQEKLELAEKIATDAEGEVASLNRRIQLVEEELDRAQERLATALTKLEEAEKAA
DESERGMKVIENRAMKDEEKMELQEIQLKEAKHIAEEADRKYEEVARKLVIIEGDLERTE
ERAELSEGKCSELEEELKTVTNNLKSLEAQAEKYSQKEDKYEEEIKALTDKLKEAETRAE
FAERSVAKLEKTIDDLEDELYAQKLKYKAISEELDHALNDMTSI

>BAB21619.2 Putative allergen Gly m Bd 28K [Glycine max]
MGNKTTLLLLLFVLCHGVATTTMAFHDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLK
SHGGRIFYRHMHIGFISMEPKSLFVPQYLDSNLIIFIRRGEAKLGFIYDDELAERRLKTG

DLYMIPSGSAFYLVNIGEGQRLHVICSIDPSTSLGLETFQSFYIGGGANSHSVLSGFEPA
ILETAFNESRTVVEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQLKKMMQDQE
EDEEEKQTSRSWRKLLETVFGKVNEKIENKDTAGSPASYNLYDDKKADFKNAYGWSKALH
GGEYPPLSEPDIGVLLVKLSAGSMLAPHVNPISDEYTIVLSGYGELHIGYPNGSRAMKTK
IKQGDVFVVPRYFPFCQVASRDGPLEFFGFSTSARKNKPQFLAGAASLLRTLMGPELSAA
FGVSEDTLRRAVDAQHEAVILPSAWAAPPENAGKLKMEEEPNAIRSFANDVVMDVF

>AGA84056.1 Allergen profilin [Arachis hypogaea]
MSWQTYVDDHLLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEPGSL
APTGLYLGGTKYMVIQGEPGTVIRGKKGPGGVTIKKTNQALIIGIYDEPMTPGQCNMIVE
KLGDYLIDTGL

>AGC39164.1 Putative kiwellin [Actinidia deliciosa]
MAQLALLLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGQLICIKGKCNDDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39165.1 Putative kiwellin [Actinidia deliciosa]
MAQLALLLLSLFLTLISLAPPGTSISSCNGPCRDLNDCDGQLICIKGKCNDDPEVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39166.1 Putative kiwellin [Actinidia deliciosa]
MAQLALLLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGQLICIKGKCNDDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39167.1 Putative kiwellin [Actinidia deliciosa]
MAQLSLLVLSLFLTLISLPPPGASISSCNGPCRDLNDCDGQLICIEGKCNDDPEVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39168.1 Putative kiwellin [Actinidia chinensis]
MAQLSLLLLSLFLTLISLPPPGASISSCNGPCRDLNDCDGQLICIKGKCNDDPEVGTHIC
RGTTPSPQPGGCKPSGTLTCQGKSHPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLNKNVGVVDITWSMA

>AGC39169.1 Putative kiwellin [Actinidia eriantha]
MAQLSLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGQLICIKGKCNDDPEVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39170.1 Putative kiwellin [Actinidia eriantha]
MAQLSLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGQLICIKGKCNDDPQVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39171.1 Putative kiwellin [Actinidia eriantha]
MAQLSLLFLSLFLTLISLAPSGASISSCNGPCRDLNDCDGQLICIKGKCNDDPEVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP

PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39172.1 Putative kiwellin [Actinidia arguta]
MAQLTLLLLSLFLTLISLPPPGASISSCNGPCRDLNDCDGQLICIKGKCNDDPEVGTHIC
GGTTPSPQPGSCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39173.1 Putative kiwellin [Actinidia arguta]
MAQLTLLLLSLFFTLISLPPPGASISSCNGPCRDLNDCNGQLICIKGKCNDDPEVGTHIC
GGTTPSPQPGSCKPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39174.1 Putative kiwellin [Actinidia arguta]
MAQLTLLLLSLFLTLISLPPPGASISSCNGPCRDLNDCDGQLICIKGKCNDDPEVGTHIC
GGTTPSPQPGGCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDFSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRCGKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>AGC39176.1 Allergen thaumatin-like protein [Actinidia chinensis]
MSTFKSLSLSALLFIAFLFTCARGATFNIINNCPFTVWAAAVPGGGKRLDRGQNWIINPG
AGTKGARVWARTGCNFDGAGRGKCQTGDCNGLLQCQAFGQPPNTLAEYALNQFNNLDFFD
ISLVDGFNVAMEFSPTSGGCTRGIKCTANINEQCPNELRAPGGCNNPCTVFKTDQYCCNS
GNCGPTDYSRFFKTRCPDAYSYPKDDQTSTFTCPGGTNYKVVFCP

>AGC56216.1 Putative triose-phosphate isomerase [Dermatophagoides farinae]
MGRKFFVGGNWKMNGNKTAIKEIVDFLKNGPLDSNVEVVVGVPAIYLMLCKNILPDNIRV
AAQNCYKVDKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGESDQLIGEKVEHALQEGL
HVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWFKVVLAYEPVWAIGTGKTASPQQA
QEVHQKLRQCFSENVSPQIAETIRIIYGGSVTANNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>AGC56218.1 Putative heat shock protein 70 [Dermatophagoides farinae]
MSKTPAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVGFTDTERLIGDAAKNQVA
MNPSNTVFDAKRLIGRKFDETTVQADMKHWPFKVIEKGNKPAIEVEFKGETKQFIPEEIS
SMVLVKMRETAEAYLGGTVNNAVITVPAYFNDSQRQATKDSGLIAGLNVLRIINEPTAAA
IAYGLDKKGGAGERNVLIFDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVN
HFVKEFKRKHKKDLTTNARALRRLRTSCERAKRTLSSAAQTSIEIDSLFEGIDFYTSITR
ARFEELCADLFRSTMEPVERVLRDAKTDKSSVNEIVLVGGSTRIPKIQRLVADFFNKDPN
KSINPDEAIAYGAAVQASILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTALIKRDTT
IPTRSPRLSLPTPTTSLVSRFRSTRVSVLAPRTTTSLVSSSSPVSPCSSWCSSDRGHFDV
DANGIMNVGAVEKGTGKTNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEAARIHAKN
GPESYAYSLRNTVNEGKLSISDSDKEKLRARLTRLSTGSTTTRPPARRSTTLNRRSSRVL
PTPSFWLPTVVLAVVVPPLVVTPVLVALVVLTRLRSALRSLTKKVFNGVFLFPVLFDVS

>AGC56219.1 Allergen ferritin [Dermatophagoides farinae]
MAANPESTTKTSRVRMNIQINLEFYASYVYQQMAYHFNRDDVALPGFEKFFDVSSKEERE
HAERFMKLQNQRGGRIVLDDIHKPQQQDWSSGLEAMRAALELEKTVNQALLDLHAVATKH
NDAQFADFIETHYLTEQVEAIKKLADYITNLERCGPGLGEYLFDRHTLHSS

>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

ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLEESQLENEDAMNVLRK
KHQDVCLDYTEQIEQLQKKNSKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVKYQLAQQLEE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWKSK
FDAEVALHHEEVEDLRKKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAELQKMKQLYEKAVEQ
KEALARENKKLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEAARRDA
EARAQRALAELQQVRIEMERRLQEKEEEMEALRKSMQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNRANLEAQKTIKKQSEQIIQLQANLEDTQRQLQQTLDQYAL
AQRKISALSAELEECKTALDNAIRARKQVEADLEEAHVRISDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALLGGKRVIAKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDTADRMLEKLNIQKRQLGEAEAMTMQNLQRVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>AGC60026.1 Putative Ani s 12 allergen [Anisakis pegreffii]
MVKNLPPSVREQCIESQIVIRNCKEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCKTFTTEENCIEWKDECAPSEAAEKKDENSLEVFPETFSQCFKSQV
VMQQCMSKGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFGDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>AGC60027.1 Putative Ani s 12 allergen [Anisakis pegreffii]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKKDENSLEVFPETFSQCFKSQV
VMQQCMSKGEEECLKIQKECVDAFGTPPVTSAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFGDKCKALQDECVAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>AGC60028.1 Putative Ani s 12 allergen [Anisakis pegreffii]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTPENCIKWKDECAPSEAAEKTDENSLEVFPETFSQCFKSQV
VMQQCMSKGEEECLKIQKECVDAFGTPPVTSAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFGDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>AGC60029.1 Putative Ani s 12 allergen [Anisakis simplex]
MVKNLPPSVREQCIESQIVIRDCEKKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKKDENSLEVFPETFSQCFKSQV
VMQQCMSKGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFGDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>AGC60030.1 Putative Ani s 12 allergen [Anisakis simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAT
SLRDCIKKGGYMGYCKTFTTEENCIKWKDECAPSEAAEKTDENSLEVFPETFSQCFKSQV
VMQQCMNEGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFGDKCKALQEECVAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>AGC60031.1 Putative Ani s 12 allergen [Anisakis simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKTDENSLEVFPETFSQCFKSQV
VMQQCMNKGEEECSKIQKECVDAFGTPPVTYAANGAYQMAAPLHRCIENGGWMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFGDKCKALQDECVAATDAPT
VDANPPIFTSKMITCVKRKMAKGL

>AGC60035.1 Allergen Ani s 1 allergen [Anisakis simplex]

MDKGTPCTQEGGVKPSVAWWHDDKTGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRGSGWMMTILGKSCDDQFCPEDAKCEQGKLFANCCK

>AGC60036.1 Allergen Ani s 1 allergen [Anisakis simplex]
MDKGTPCTQEGGVKPSVAWWHDDKSGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRGSGWMMTILGKSCDDQFCPEDAKCEQGKLFANCCK

>B3EWS0.1 Putative RecName: Full=Thaumatin-like protein 1a; AltName: Full=Acidic thaumatin-like protein; AltName: Full=Beta-1,3-glucanase [Manilkara zapota]
ATFDIVNQCTFT

>CCP19647.1 Allergen profilin allergen [Parietaria judaica]
MSWQTYVDDHLMCEIEGNHLTAAAILGQDGSVWAQSASFPQFKPEEIAAIVKDFEEPGTL
APTGLFLGGAKYMVIQGEAGVVIRGKKGSGGVTVKKTGQALVIGIYDEPMAPGQCNMIVE
RLGDYLIETGL

>AGE44125.1 Allergen tropomyosin [Portunus pelagicus]
MDAIKKKMQAMKLEKDDAMDRADTLEQQNKEANIRAEKAEEEVHNLQKRMQQLENDLDQV
QESLLKANTQLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
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]
MADKTKILIIGGTGYIGKFIVEASAKSEHPTFALARESTISDPVKGKIIQGFKNSGVTIL
TGDLYDHESLVKAIKQVDVVISTVGQLQLADQVKIIAAIKEAGNVKRFFPSDFGTDVDRC
HAVEPAKSSFEIKSQIRRAIEAEGIPYTFVSANYFAGYSLPTLVQPEVTAPPRDKVIILG
DGNAKAVFNEENDIGTYTIKAVDDARTLNKILYIKPPKNIYSFNELVALWEKKIGKTLEK
IYVPEEQVLKQIQESPFPINIVMAINHSAFVKGDLTNFKIEPSFGVEASELYPDVKYTTV
EEYLDQFV

>E3SU11.1 Putative RecName: Full=Thaumatin-like protein; AltName: Allergen=Ole e 13; Flags: Precursor [Olea europaea]
MNFSKNLPLLVSLWAITFFAYTHAATFDIVNQCTYTVWAAASPGGGRRLDQGQSWNINVA
PGTTQARIWGRTNCNFDANGRGQCETGDCNGLLECQGYGRPPNTLAEFALNQPNNLDFVD
ISNVDGFNIPLEFSPTTNVCRRLVCNAPIVQQCPSELRTPGGCNNPCTVFNTNEYCCTNG
PGSCGPTPLSRFFKERCPDAYSYPQDDPTSLFTCPAGTNYRVVFCP

>AGG10560.1 Allergen Tyr p 8 allergen [Tyrophagus putrescentiae]
MSSKPVLGYWDIRGLAQPIRLLLAYLDVDYEDKRYQLGANFDRSAWLTEKFNLGLDFPNL
PYYIDGNVKLSQTLAILRYIGRKYKLTGANEPEELRVSLVEQQVVDGNQSLSRVAYDPNA
DKLKPDFLKTLPDSVKQLSHFLGNSPFVAGTSITYVDFWLYEYLVKLSVLVPEVFGQFDN
LKKFVERIESLPRVSVYIKAQQPKLFNGPMAKWNGQYA

>NP_001306883 Allergen PREDICTED: non-specific lipid-transfer protein 2 [Solanum lycopersicum (Lycopersicon esculentum)]
MKMTKVCSFVAVMLVMILVCDQFGANEAATCSASQLSPCLGAIQGGTAPSQDCCARLKNQ
QPCICGFMKDPNLRQYVNSPNARKVAGQCGVSIPSC

>CCU98198.1 Allergen allergen [Malassezia sympodialis ATCC 42132]
MGVQVISSYDQFKQVTGGDKVVVIDFWATWCGPCKMIGPVFEKISDTPAGDKVGFYKVDV
DEQSQIAQEVGIRAMPTFVFFKNGQKIDTVVGADPSKLQAAITQHSA

>CCU99206.1 Putative allergen [Malassezia sympodialis ATCC 42132]
MSNVIKKVFNTDKAEAEGSKVADAPQEAGHKGEGFLHDAKDRLQGFAGHGHHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLAPVTRHVHHRHEIEELLREREHHIHQHHIQHHV
QPVVDSEHLAEQIHSRVVPQTTVREVHANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGGVLTSTTRSIEEAGLLNLGNNQRTVEGETYTGGLPLSQ

>CCU99457.1 Putative allergen [Malassezia sympodialis ATCC 42132]
MSATTGSQAPNTTFTYIPWAPELDSGKVCGVPQTFKAHDRWKGKKVVVVAIPGAFTPVCH
QNHIPGFVEKINELKAKGVDEVVVIAVNDAFVMSGWGVTVGGKDQIVYACDNDLAFSKAL
GGTLDLTSGGMGVRTARYAVVLDDLKITYFGMDEGNMGAPEKSSVDAVLAQL

>CCV00099.1 Putative allergen [Malassezia sympodialis ATCC 42132]
MTEHTLPPLPYEYNALEPFISADIMMVHHGKHHQTYVNNLNASTKAYNDAVQAQDVLKQM
ELLTAVKFNGGGHVNHALFWKTMAPQSQGGGQLNDGPLKQAIDKEFGDFEKFKAAFTAKA
LGIQGSGWCWLGLSKTGSLDLVVAKDQDTLTTHHPIIGWDGWEHAWYLQYKNDKASYLKQ
WWNVVNWSEAESRYSEGLKASL

>CCU97864.1 Putative allergen [Malassezia sympodialis ATCC 42132]
MSSVVGLDIGNSSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGSLKRLIGRTFQDESIQTYEKPFVNAELVDAKGEVGVKVRFQNEEHIFSATQLLA
MYLGKLRDTTQNELGGSGVSDVVLSVPIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSPRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFAEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQSGLTKDEIHSVELVGGSSRVPALKERIAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPIKVSWEPAPDVPDEENELV
VFNTNNPVPSTKILTFYRKEPFSLDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPVVDPNAAEDAEPKTEKKIVKKLQRKDDLP
IVSGIGLLDPTLLAELKEREGQMYAADKLVADTEDRKNALEEYIYDTRSKLDERYATFVQ
SEEKEKLLAMLAESEDWLYTEEGEDATKSAYVSRLETLQKVGAPIHFRWKEHEERPKAAA
QLREVVNKYMSVFENEPEKYDHLSDDDKTKVIEKAATVGKWLDDYMYKQSELPKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>AGI78542.1 Putative ubiquinol-cytochrome c reductase binding protein-like protein [Dermatophagoides farinae]
MVHLTKTLRFINNPGFRKFYYGLQGYNKYGLYYDDFYDYTDAAHLEAVRRLPPDLYDQHT
YRLVRASQLEITKQFLPKEQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWINFLSKD

>AGL34967.1 Putative metallothionein type 2 [Coffea arabica]
MSCCGGNCGCGAGCKCSGGCGGCKMYPELSYTENTAAETLILGVAPPKTAYLEGAGEEAA
AENGGCKCGPDCKCNPCNCK

>AGL34968.1 Putative metallothionein type 3 [Coffea arabica]
MSDKCGNCDCADRSQCVKKGSSYAADIVETENTFVETFVMMEGGAQNGKCKCGPSCACVN
CTCDN

>AGM48615.1 Putative group 14 major allergen 1 fragment 3, partial [Sarcoptes scabiei type suis]
DLDNAFNPRDGTMKLQVKDRIYDIKLKREPFRYGDLHIEGNENALIKKGDLHMSLVDPLT
LNVLTKNDGIVDMTLDLVSPNTKKAALKINSKKYDLDHDGEITVSIFNPRMTWKHHTRKG
DMELNIDADITRKGSLITYSRKEPDDSTKVRYSRQGNQVSMEVDSKLIEGHANGTLTDGK
IHVKGRESDFEIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMNMKY
DRFAPVKILKLDYDGLNYEKHIDAEYEPSNHYKYFTDGKSKRSGKGYSIKIDGKPKKALK
VDVDMPDFKF

>BAN29066.1 Allergen gamma-gliadin, partial [Triticum aestivum]
NMQVDPSSQVQWPQQQPVPQPHQPFSQQPQQTFPQPQQTFPHQPQQQFPQPQQPQQQFLQ

PQQPFPQQPQQPYPQQPQQPFPQTQQPQQLFPQSQQPQQQFSQPQQQFPQPQQPQQSFPQ
QQPPFIQPSLQQQVNPCKNFLLQQCKPVSLVSSLWSMIWPQSDCQVMRQQCCQQLAQIPQ
QLQCAAIHTIIHSIIMQQEQQEQQQGMHILLPLYQQQQVGQGTLVQGQGIIQPQQPAQLE
AIRSLVLQTLPTMCNVYVPPECSIIKAPFSSVVAGIGGQ

>BAN29067.1 Allergen omega-gliadin, partial [Triticum aestivum]
ARELNPSNKELQSPQQSFSHQQQPFPQQPYPQQPYPSQQPYPSQQPFPTPQQQFPQQSQQ
PFTQPQQPTPLQPQQPFPQQPQQPQQPFPQPQQPFPWQPQQPFPQTQQSFPLQPQQPFPQ
QPQQPFPQPQLPFPQQSEQIIPQQPQQPFPLQPQQPFPQQPQQPFPQPQQPIPVQPQQSF
PQQSQQSQQPFAQPQQLFPELQQPIPQQPQQPFPLQPQQPFPQQPQQPFPQQPQQSFPQQ
PQQPFPQQPQQPFPQQPQQPFPQQPQQPFPLRPQQPFPQQPQQSQQSFPQPQPQQPQQPS
ILQPQQPLPQQPQQPFQQPQQQLSQQPEQTISQQPQQPFPQQPHQPQQPYPQQQPYGSSL
TSIGGQ

>BAN29068.1 Allergen high molecular weight glutenin subunit, partial
[Triticum aestivum]
EGEASEQLQCERELQEHSLKACRQVVDQQLRDVSPECQPVGGGPVARQYEQQVVVPPKGG
SFYPGETTPPQQLQQSILWGIPALLRRYYLSVTSPQQVSYYPGQASSQRPGQGQQEYYLT
SPQQSGQWQQPGQGQSGYYPTSPQQSGQKQPGYYPTSPWQPEQLQQPTQGQQRQQPGQGQ
QLRQGQQGQQSGQGQPRYYPTSSQQPGQLQQLAQGQQGQQPERGQQGQQSGQGQQLGQGQ
QGQQPGQKQQSGQGQQGYYPISPQQLGQGQQSGQGQLGYYPTSPQQSGQGQSGYYPTSAQ
QPGQLQQSTQEQQLGQEQQDQQSGQGRQGQQSGQRQQDQQSGQGQQPGQRQPGYYSTSPQ
QLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQGQQGQQPEQGQQGQQQRQGEQGQQPGQGQ
QGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQQPAQGQQPGQEQQGQQPGQGQ
QPGQGQPGYYPTSPQQSGQEQQLEQWQQSGQGQPGHYPTSPLQPGQGQPGYYPTSPQQIG
QGQQPGQLQQPTQGQQGQQPGQGQQGQQPGEGQQGQQPGQGQQPGQGQPGYYPTSLQQSG
QGQQPGQWQQPGQGQPGYYPTSSLQPEQGQQGYYPTSQQQPGQGPQPGQWQQSGQGQQGY
YPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQGQQPRQWLQPRQGQQGYYPTSP
QQSGQGQQLGQGQQGYYPTSPQQSGQGQQGYDSPYHVSAEHQAASLKVAKAQQLAAQLPA
MCRLEGGDALSASQ

>BAN29069.1 Putative low molecular weight glutenin subunit, partial
[Triticum aestivum]
ENSHIPGLERPWQQQPLPPQQTFPQQPLFSQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSPFPQQQQHQQLVQQQIPVVQPSIL
QQLNPCKLFLQQQCSPVAMPQRLARSQMLQQSSCHVMQQQCCQQLPQIPQQSRYEAIRAI
IYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQQSQQQLGQQPQQQQLAQGTFLQPHQ
IAQLEVMTSIALRTLPTMCRVNVPLYRTTTSVPFGVGTGVGGY

>AGR27935.1 Putative putative Pru du 6 allergen, partial [Prunus dulcis]
DNHIQSEAGVTESWNPSDPQFQLAGVAVVRRTIEPNGLHLPSYVNAPQFIYIVRGRGVLG
AVFPGCAETFEDSQPQQFQQQQQQQQQFRPSRQEGGQGQQQFQGEDQLDRHQKIRHIREG
DIIALPAGVAYWSYNNGEQPLVAVSLLDLSNDQNQLDQVPRRFYLAGNPQDEFNPQQQ

>AGS80276.1 Putative manganese superoxide dismutase [Alternaria
alternata]
MELHHSKHHQTYITNLNGLLKTQAEAVSTSDITSQVSIQQGIKFNAGGHINHSLFWQNLA
PASSNEAKISAAPELVKQIQATWGDEDKFKEAFSAALLGIQGSGWGWLIKTDMGKEQRLS
IVTTKDQDPVVGKGEVPIFGVDMWEHAYYLQYQNGKAAYVKNIWNVINWKTAEERYLGSR
ADAFSVLKASI

>AGT20779.1 Putative hemocyanin [Fenneropenaeus merguiensis]
MRVLVVLGLIAAAAFQVVSADVQKQKDVLYLLHRIYGDIQDADLLATANSFDPAGGSYSD
GGAAVQRLLKGLNDGRLLEQKHWFSLFNTRHRNEALLLFDVLIHSSDWATFVGNAAFFRQ
KINEGEFVYALYVAVIHSPLTEDVVLPPLYEITPHLFTNSEVIEAAYRAKQKQTPGKFES
TFTGTKKNPEQRVAYFGEDIGLNTHHVTWHMEFPFWWDDEYGHHLDRKGENFFWVHHQLT
VRFDAERLSNYLDPVGELHWYKPIVDGFAPHTTYKYGGQFPARPDNVKFEDVDDVARIRD
MVIVESRIRDAIAHGYIIDSHGKQIDISNEKGIDILGDVIESSLYSPNVQYYGALHNTAH

IVLGRQGDPHGKFDLPPGVLEHFETATRDPSFFRLHKYMDNIFKEHKDSLPPYTKADLEF
SGVSISEVNVVGELETYFEDFEYNLINAVDDAEGIPDVDISTYVPRLNHKEFTFKIDIEN
GGSPRLATVRIFAWPHKDNNGIEFTFDEGRWNAIELDKFWVSLAGGKNSIERKSTESSVT
VPDVPSIDTLFAKTAAGGDGLSEFASATGLPNRFLLPKGNDKGLEFDLVVAVTDGDADAA
VPDLHLNTKYNHYGANGVYPDKRPHGYPLDRRVPDERVFEELPNFKHIQVKVFNHGEHIH
S

>AGT28425.1 Allergen odorant-binding protein, partial [Phodopus sungorus]
NDYAELEGKWDTIAIAADNDAKIKEEGPLRLYVRELYCNEDCSEMEVTFYVNANNQCSKT
TVIGYKQADGTYRTQFEGDNRFQPVYATPENIVFTSKNVDRAGQETNLIFVVGKSQPLTP
EQHEKLVEFAHENNIPEENIHNVLATDTCPK

>AGW21344.1 Allergen lipid transfer protein [Prunus persica]
MAYSAMTKLALVVALCMVVSVPIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAVLPGKCGVSIPYKISASTNCATVK

>CAA61943.2 Putative profilin, partial [Triticum aestivum]
MSWQTYVDDHLCCEIDGQHLTSAAILGHDGSVWTESPNFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>CAA61944.2 Putative profilin, partial [Triticum aestivum]
MSWQAYVDDHLCCEIDGQHLTSAAILGHDGSVWAESPNFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>CAA61945.2 Putative profilin, partial [Triticum aestivum]
MSWKAYVDDHLCCEIDGQNLTSAAILGHDGSVWAQSPNFPQFKPEENAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPGVVIRGKKGTGGITIKKTGMALILGIYDEPMTPGQCNLVVE
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
FGEGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLVSAPHGGTIIKTT
SKYHTKGDVEIKEEHVKAGKEKAAHLFKLIEGYLKDHPSEYN

>AHA36627.1 Allergen Cor a 9 allergen [Corylus avellana]
MAKLILVSFSLCLLVLFNGCLGIDVGLRRQQQRHFGECNLDRLNALEPTNRIEAEAGQIE
SWDHNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQQSQQGQGQGQSQRSEQDRHQKIRYFQEGDIIALPAGVAHWCYNDGDSPVVAVSLLHT
NNYANQLDENPRHFYLAGNPDDEHQRQGQQQFGQRRRQQQHSRGKEGEQEQQGEGNNVFS
GFDAEFLADAFNVDVDTARRLQSNQDKRRNIVKVEGRLQMVRPERSRQEWERQERQERES
EQERERQRRQGGRGRDVNGFEETICSLRLMENIGSRSRADIYTEQVGRINTVNSNTLPVL
RWLQLSAERGDLQREGLYVPHWNLNAHSVVYAIRGRARVQVVDDNGNTVFDDELRQGQVL
TIPQNFAVAKRAESEGFEWVAFKTNDNAQISPLAGRTSAIRALPDDVLANAFQISREEAR
RLKYNRQETTLARSSRSSSERMRRRSESEGRAEA

>AHA85706.1 Putative tropomyosin [Macrobrachium rosenbergii]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV

QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>AHB19225.1 Putative non specific lipid transfer protein 1C [Punica granatum]
MASSGFLRLAGFVLVCMAVASTVAEAGITCGQVSSSLAGCIQYARGNGAGPVPQACCNGI
RSLNSAAKTTPDRQAACRCLKSLASSISGINYGLVAGAPGKCGVSIPYKIAPSTNCDNVK

>AHB19226.1 Putative non specific lipid transfer protein 1B [Punica granatum]
MASKRFLNNLVPALFLCMVVAASVVESAVTCGQVTSSLTPCIPYARGVVAAPSAACCSGV
RSLNNAAKTTPDRQTACNCLKVIARSITGINYGRVGALPGKCGVSIPYKISPSTDCSRVK

>AHB19227.1 Putative non specific lipid transfer protein 1A [Punica granatum]
MTGSGLFKLACAVFAVALVAAPIATEAAVTCGQVASSLAPCIPYARSAGGAVPPACCSGI
KTLDGMARTTPDRQATCKCLKSASTSISGINYGLVASLPAKCGVNIPYKISPSTDCARVK

>4BK6_B Allergen Chain B, Crystal Structure Of A Dimeric Variant Of Bet V 1 [Betula pendula]
GVFNCETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>4BK7_A Allergen Chain A, Crystal Structure Of A Variant Of The Major Birch Pollen Allergen Bet V 1 [Betula pendula]
GVFNFETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>AHC08073.1 Putative PR10 protein [Solanum lycopersicum (Lycopersicon esculentum)]
MGVNTYTYESTTTISPTRLFKALVLDFDNLVPKLLSQHVKNNETIEGDGGVGSIKQMNFV
EGGPIKYLKHKIHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGCVYKTTTE
YHTKGDHVVSEEEHNVGRERIMNISKAVEAYLLANPSVYA

>AHC08074.1 Putative PR10 protein [Solanum lycopersicum (Lycopersicon esculentum)]
MGVNTFTHESTTTIAPTRLFKGLVLDFDSLVPKLLSHDVKSIEIVEGDGGAGSIKQMNFV
EGGPIKYLKHKIHVIDDKNLVTKYSLIEGDVLGDKLESIAYDVKFEAAGDGGCVCKTTTE
YHTKGDHVVSEEEHNVGKGKAIDLFKAIEAYLLANPSVYA

>AHC94806.1 Putative allergen Der f 21 [Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVDTEDKWRNAFDHMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>CCK33472.1 Putative lipid transfer protein precursor, partial (chloroplast) [Cannabis sativa]
ITCGQVASSLAPCLSYLKVGGAVPDGCCNDIKSLSGAAKTPADRQAACKCLKSAASSIKG
VNFNLASGLPGKCGVSIPYKISPSTDCSSVK

>CCW27997.1 Putative serine protease inhibitor [Hevea brasiliensis]
MASQCPVKDAWPELIGTNGDIAAGIIETENANVKAIVLKKGSPMTMEYNLCRVLVFVDDN
RVVTQAPAIG

>AHF71027.1 Allergen glutathione S-transferase [Betula pendula]
MADASVKEHLPTPLDATSNPPPIFDGTTRLYTCYTCPFAQRVWITRNYKGLQEKIKLVPI
NLQNRPAWYKEKVYPENKVPALEHNGKVIGESLDLIKYVDINFEGPSLLPNDPAKKAFAE
ELVAYSDTFNKTVFTSFKGDPVKEAGPAFDHLEKALHKFDDGPFFLGQFSAVDIVYIPFV
ERFQIFLLDALKYDITAGRPKLAKWIEELNKIDAYKPTKTDPKELVEFYKARFAAQQ

>P86980.1 Putative RecName: Full=Fructose-bisphosphate aldolase A; AltName: Full=Muscle-type aldolase; AltName: Allergen=Gad m 3.0101 [Gadus morhua]
PHAYPFLSPEQKKEL

>P86979.1 Allergen RecName: Full=Fructose-bisphosphate aldolase A; AltName: Full=Muscle-type aldolase; AltName: Allergen=Thu a 3.0101 [Thunnus albacares]
PHAFPFLTPEQKKELSDIAHKIVAPGKGILAADESTG

>B3A0L6.1 Putative RecName: Full=Beta-enolase; AltName: Full=2-phospho-D-glycerate hydro-lyase; AltName: Full=Enolase 3; AltName: Full=Muscle-specific enolase; Short=MSE; AltName: Full=Skeletal muscle enolase; AltName: Allergen=Gad m 2.0101 [Gadus morhua]
SITKIKAREIL

>P86978.1 Allergen RecName: Full=Beta-enolase; AltName: Full=2-phospho-D-glycerate hydro-lyase; AltName: Full=Enolase 3; AltName: Full=Muscle-specific enolase; Short=MSE; AltName: Full=Skeletal muscle 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]
MMNLKYLLFFCLVQALHYCYAYGDPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNYLVILIDWRVAAC
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]
MMNLKYLLFFCLVQALHYCYAYGDPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNYLVILIDWRVAAC
TNEMAGVKLAYYSYAASNTRLVGNYIATVTKMLVQQYNVPMANIRLVGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNNGYNQPGCGLPIIGETCSHTRAVKYFTECIRHECCLIGVPQSKNPQPVSKCTRNQC
VCVGLNAKTYPKTGSFYVPVESKAPYCNNKGKII

>A4GFC3.1 Putative RecName: Full=Profilin-3; AltName: Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea europaea]
MSWQAYVYEHLMCEIESHHLSSAAILGHDGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLEQGQ

>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

HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
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
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
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]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPGVVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCDMVVG
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]
MSWQAYVDEHLMCDIDGQGQQLAASAIVGHDGSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLVEQGL

>A4GFC0.1 Putative RecName: Full=Profilin-3; AltName: Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea europaea]
MSWQTYVDEHLMCEIEGLHLASTAIIGHAGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEPGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
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]
MSWQAYVDEHLMCDIDGQGQQLAASAIVGHDGSVWAQSSSFPQLKPEEITGIMKDFDEPG
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]
MSWQAYVDEHLMCEIDGHHLSAAAIIGHDGSVWAQSSTFPQFKPEEIAAIIKDFDEPGSL
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]
MSWQTYVDEHLMCDIDGQGQQLAASAIVGHDGSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>BAO50870.1 Putative 13S globulin [Fagopyrum esculentum]
MLLGVLLCIMVSLAASETRSRGSSTMRARQCRLDQLTSSQPNQKIQSEGGTIEVWDEEED
QFQCAGVAAMRVTVQPDSLSLPSYYSSPRLVYVEQGEGVFGLSLPGCPETYQSRGMEMRG
DEEEEEGFESGRRMTDAHQPTRRVRKGDVVALPQGTVHWCFNDGQEDLVVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGGSKEGKSQKLNFNNILSAFETKLLAEALGTEEETVRKMQESD
ERGPIVKARKNMRQMVTPPRFGREQDEDETNGLEESFCNMRFRHNLGPRTEADIASRQAG
RIHSVDQNKLPILEFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQMQIVDDNGQ

TVLDDRVSEGSMVVIPQFYISTCRAGRDGLEYVSFETTANPMSSPLNGHASVFKGMPIPV
LSNSYQISPRAAYELKQTRSHEHGLFSPFGGRS

>BAO50872.1 Putative 13S globulin [Fagopyrum esculentum]
MLLGVLLCIMVSLAASETRTRGSSTMRARQCRLDQLTSSQPNQKIRSEGGTIEVWDEEED
QFQCAGVAAMRVTVQPDSLSLPSYYSSPRLVYVEQGEGVFGLSLPGCPETYQSRGMEMRG
DEEEEEGFESGRRMTDAHQPTRRVRKGDVVALPQGTVHWCFNDGQEDLVVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGGSKEGKSQKLNFNNILSAFETKLLAEALGTEEETVRKMQESD
ERGPIVKARKNMRQMVTPPRFGREQDEDETNGLEESFCNMRFRHNLGPRTEADIASRQAG
RIHSVDQNKLPILEFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQMQIVDDNGQ
TVLDDRVSEGSMVVIPQFYISTCRAGRDGLEYVSFETTANPMSSPLNGHASVFKGMPIPV
LSNSYQISPRAAYELKQTRSHEHGLFSPFGGRS

>AHL24658.1 Allergen Sal k 4.03 allergen [Salsola kali]
MSWQAYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMVIQSEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTPGQCNMI
VERLGDYLIEQGL

>AHL24660.1 Putative Fra e 2.01 allergen [Fraxinus excelsior]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIVGHDGSVWAQSATFPQFKPEEINGITTDFNEP
GHLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPITPGQCNM
VVERLGDYLIDQGL

>AHL24661.1 Putative Fra e 3.01 allergen [Fraxinus excelsior]
MADDPQEVAQLERIFKRLDANGDGKISSSELGETLKTLGSITPDEIQRMMAEIDTDGDGF
ISYEEFTDFARANRGLVKDVAKIF

>AHM25035.1 Putative icarapin variant 8 precursor, partial [Apis mellifera carnica]
FPGAHDEDSKEERMRPAPNLQGVWKASRISTTRYRRTKEMY

>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]
MGVFTFDDEFPSTVAPARFFKAAVLDADNLFPKVAPQAAKSAETVEGNGGPGTVKKITLP
DGKYVKQRLDSIDHDNFTYGHSIIEGDVLSADIEKISHVTKFVASSSGGSIIKVTTTFHT
VGNAPVDEAKAKEGKEKAEGLFKLVEGYLEANPSAYN

>AHY02994.1 Putative transaldolase [Fusarium proliferatum]
MSSSLEQLKATGTTVVSDSGDFVSIGKYKPQDATTNPSLILAASKKAEYAKLIDVAIDYA
KQKGGSIDQQVDDALDRLLVEFGKEILKIIPGKVSTEVDARYSFDTEASVNKALHLIELY
GEQGISKDRILIKIAATWEGIKAAEILQRDHGINTNLTLMFSLVQAIGAAEAGAYLISPF
VGRILDWFKASTKKEYSKEEDPGVQSVKTIFNYYKKYGYNTIVMGASFRNTGEITELAGC
DYLTISPNLLEDLLNSNEPVPKKLDASQAASLDIEKKSYINDEALFRFDFNEDQMAVEKL
REGISKFAADAVTLKSILKEKLA

>AHY24177.1 Putative profilin, partial [Prosopis juliflora]

MSWQTYVDDHLMCEIEGTNNHLSAAAILGVDGSVWAQSASFPQFKPDEISAVVKDFDGPG
TLAPTGLHLGGTKYMVIQGEPGQVIRGKKGPGGICVKKTGQALIIGIYDEPVTPGQCNMI
VERLGDYLVEQGM

>2MC9_A Allergen Chain A, Cat R 1 [Catharanthus roseus]
GSFTGSMPNPRVFFDMSVGGQPAGRIVMELFADTTPRTAENFRALCTGEKGTGRSGKPLH
YKDSSFHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPNT
NGSQFFICTAKTEWLDGKHVVFGQVVEGMDVVKAIEKVGSSSGRTAKKVVVEDCGQLS

>G5DC91.2 Putative RecName: Full=Thaumatin-like protein 1; AltName:
Full=Acidic thaumatin-like protein; AltName: Full=Beta-1,3-glucanase;
AltName: Full=Thaumatin-like protein 1b [Manilkara zapota]
ATFDVVNQCTFTVWAGASPGGGKQLDQGQTWTITVAPGSTKARIWGRTGCNFDANGQGKC
QTGDCNGLLQCQGYGSPPNTLAEFSLNQPNNLDYVDISLVDGFNIPMDFSPAAAGVCKDI
RCATDITAQCPAELQAPGGCNNPCTVYKTNEYCCTNGQGTCGPTALSKFFKDRCPDAYSY
PQDDPTSLFTCPAGTNYKVVFCPNLDA

>KEY78748.1 Putative allergen Asp F7 [Aspergillus fumigatus var. RP-
2014]
MAPIFKSLALVSALFAAISSAAPVNLDKREVDVVWTTVTTVVWTTIDVTTTIYPTPQAPT
PPVVESTPTPTPSAAPEQAEPIETSTQPETTKSQPTQPSVATFIPVAAAAAAADSAAPVP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSGSTEKAASSGYSGPCSKGSPCVGQLTYYD
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK
PTDLDASRHLFGELADFSAGRIDGMSWYFN

>KEY81716.1 Allergen allergen Asp F4 [Aspergillus fumigatus var. RP-
2014]
MQLKNSMLLLTALAAGSSVARLHGHERRHLHHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNAVAAAAAASTPEPSSSHSDSSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFYKGNVGKPWGSNIIEVSPENAKKYKHVAQFVGSDTDPWTVVFWNKIG
PDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAWGAAKGDELPKDQFGGYSCTWGEFD
FDSKINHGWSGWDVSAIQAENAHHEVQGMKICNHAGELCSIISHGLSKVIDAYTADLAGV
DGIGGKVVPGPTRLVVNLDYKE

>AIL01316.1 Putative group 1 allergen Sor h 1.0102 [Sorghum halepense]
MGVNMMSWSMQVALVVALAFLVGGAWCGPPKVAPGKNITATYGSDWLEAKATWYGKPTGA
GPDDNGGACGYKDVNKAPFNSMGACGNLPIFKDGLGCGSCFEIKCDKPAECSGEAVVVHI
TDMNYEQIAAYHFDLAGTAFGAMAKKGEEEKLRKAGIIDMKFRRVRCKYGEKVTFHVEKG
SNPNYLALLVKYVDGDGDVVGVDIKEKGGDAYQPLKHSWGAIWRKDSDKPIKFPVTVQIT
TEGGTKTAYEDVIPEGWKADTTYTAK

>AIL01317.1 Putative Sor h 1.0200 [Sorghum halepense]
MGSLANKIVAMAAVLAALVTGGSCAPKKFPPGPNITTNYNGQWLSARATWYGQPNGAGPD
DNGGACGIKNVNLPPYNGFTACGNVPIFKDGKGCGSCYEVRCKEMPECSGNPITVFITDM
NYEPIAPYHFDFSGKAFGSLAKPGLNDKLRHCGIMNVEFRRVRCKLGGKIMFHVEKGSNP
NYLAVLVKNVADDGNIVLMELEDKASPGFKPMKQSWGAVWRFDTPKPVKGPFSIRLTSES
GKKLVAPNVIPATWKPDTLYNSNIQF

>AIL01320.1 Putative group 13 allergen Sor h 13.01 [Sorghum halepense]
MALGSNAMRVFFLLAMVVCAAHAAGKAAPKEKEKGKDDKSGGAPAEAPSGSAGGSDISKL
GAKGDGKTDSTKALNEAWAAACGKEGPQTLMIPKGDYLTGPLNFSGPCKGSVTIQLDGNL
LGTTDLSAYKTNWIEIEHVDNLVISGKGTLDGQGKQVWDNNKCAQKYDCKILPNSLVLDY
VNNGEVSGITLLNAKFFHMNVFQCKGVTIKDVTVTAPGDSPNTDGIHIGDSSKVTITGTT
IGVGDDCISIGPGSTGINVTGVTCGPGHGISVGSLGRYKDEKDVTDINVKDCTLKKTSNG
VRIKSYEDAACVITASKLHYENIAMDDVANPIIIDMKYCPNKICTAKGDSKVTVKDVTFK
NITGTSSTPEAVSLLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELA
CF

>AIL01321.1 Putative group 13 allergen Sor h 13.02 [Sorghum halepense]
MACTGNAMRAFFLLAFVCAAHAGKDAPAKDGDAKAASGPGGSFDISKLGASGDGKKDSTK
AVQEAWTSACGGTGKQTILIPKGDYLVGPLNFTGPCKGDVTIQVDGNLLATTDLSQYKGN
WIEILRVDNLVITGKGKLDGQGPAVWSKNSCAKKYDCKILPNSLVLDYVNNGEVSGITLL
NAKFFHMNVFQCKGVTIKDVTVTAPGDSPNTDGIHIGDSSKVTITGTTIGVGDDCISIGP
GSTGINVTGVTCGPGHGISVGSLGRYKDEKDVTDINVKDCTLKKTSNGVRIKSYEDAACV
ITASKLHYENIAMDDVANPIIIDMKYCPNKICTAKGDSKVTVKDVTFKNITGTSSTPEAV
SLLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELACF

>AIO08848.1 Putative Der f 28 allergen [Dermatophagoides farinae]
MPSKTLKAPAIGIDLGTTYSCVGVFQNGSVEIIANDQGNRTTPSYVAFNDTERLIGDAAK
NQVSMNPTNTIFDAKRLIGRRFDESSVKSDMKHWPFKVVSESGKPKLEVEFKGERKRFWP
EEISAMVLTKMKETAEAYLGQKVTDVVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEP
TAAAIAYGLDKKGGGEKNVLIFDLGGGTFDVSVLTIDNGIFEVKSTAGDTHLGGEDFDNR
LVNHFVQEFKRKFGKDIMSNKRALRRLRTSCERAKRTLSSSTQTSIEIDSLHEGIDFYST
ITRARFEELCSDLFRSTLEPVEKALRDAKLDKSKIDEIVLVGGSTRIPKIQKLLSDFFNG
KELNKSINPDEAVAYGAAVQAAILTGDNSNNVKDLLLLDVAPLSLGIETAGGVMTTLIKR
NTTIPTKQTQTFTTYADNQPAVTIQVYEGERAMTKDNNRLGTFDLTGIPPAPRGVPQIEV
TFDVDANGILNVSAVDKSTGRQNKITITNDKGRLSKADIEKMVQEAEQYREDDERQRERI
AAKNQLEAYAFQLKSTMEEEAVKSKLSEEDRKTVLNKVDETLRWLDSNQLADKEEFEHRQ
KEIENACRPIMMKIYQQQQQQHHPGANGSCGSNAYPGYNGFKSNNDGPVVEEVN

>AIO08850.1 Putative Der f 20 allergen, partial [Dermatophagoides farinae]
MVDQAVIDKLEAGFQKLQSSAECHSLLKKYLTRNVLDACKGRKTGMGATLVDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPVIEDYHKGFKPTDKHPQTDFGDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYPFNPCLTEAQYKEMEEKVKGQLNSFEGELKGTYYPLLGMDKATQQQ
LIDDHFLFKEGDRFLQAANACRFWPVGCGIFHNDNKTFLIWVNEEDHLRIISMQKGGDLK
QVFSRLINGVNHIEKKLPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRRMGLTEYQAVKEMQDGILELIKIEKSM

>AIO08851.1 Allergen Der f 27 allergen [Dermatophagoides farinae]
MKFFLLSFVLMIVAATATYAAHVGSGSRDNNNNKPVPAEGFAKASNEFGFHLLKEVIQHR
SSSGSRGSSENVLFSPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNGGEYQTVAN
SVKQIQNQIKQSDQSNQFDWGNMLMVDQQIPVKDQYKKIIEQYYDGQVMSVDFRKESKNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGHH
GQEYKNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPRERNYDLDKIRQSIN
STFVDEIVGQITGGQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHKAKLILNEQGTEAGAGTYIQMAVLSALETSHTFRFDHPFMYFIRHLPTGQILF
LGEIHDF

>AIO08853.1 Allergen Der f 7 allergen [Dermatophagoides farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEKSETIDPMKVPDHTDKFER
HVGILDFKGELAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPNTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAIFQDTVRKEMTKVLAPAFKRELEKN

>AIO08860.1 Putative Der f 25 allergen [Dermatophagoides farinae]
MVRKFFVGGNWKMNGSRATNEDLIKTLSNGPLDPNTDVVVGVPSIYMAEVRQKLPKTIGV
AAQNCYKVPKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGESDQLIGEKVEHALQEGL
HVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWSKVVLAYEPVWAIGTGKTASPQQA
QEVHQKLRQWFSENVSPQIAETIRIIYGGSVTANNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>AIO08864.1 Allergen Der f 11 allergen [Dermatophagoides farinae]
MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLGERLEEAEGSSESVTEMNKKRDSELAKLRKLLEDVHIESEETAHHLRQKH
QAAIQEMQDQLDQLQKAKNKSDKEKQKFQAEVFELLAQLETANKEKLTALKNVEKLEYTV

HELNIKIEEINRTVIELTSHKQRLSQENTELIKEVHEVKLQLDNANHLKTQIAQQLEDTR
HRLEEEERKRASLENHAHTLEVELESLKVQLDEESEARLELERQLTKANGDAASWKSKYE
AELQAHADEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
AHAQQLEKRVAQLEKINLDLKNKLEEVTMLMEQAQKELRVKIAELQKLQHEYEKLRDQRD
QLARENKKLTDDLAEAKSQLNDAHRRIHEQEIEIKRLENERDELSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYEKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITAELQAHYDEVHRQLQQAVDQLGVT
QRRCQALQAELEEMRIALEQANRAKRQAEQLHEEAVVRVNELTTINVNLASAKSKLESEF
SALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLEQEVRTLH
VRIEEVEANALAGGKRVIAKLESRIRDVEIEVEEERRRHAETDKMLRKKDHRVKELLLQN
EEDHKQIQLLQEMTDKLNEKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAE
SNLSFIRAKHRSWVTTSQVPGGTRQVFTTQEETTNY

>AIO08866.1 Putative Der f 29 allergen [Dermatophagoides farinae]
MSWQSYVDNQICQHVDCTLAAIANIQDGSVWAKFEKDDKKINPKELKTIADTIRQNPSGF
LETGIHIGGEKYICIQADNQLVRGRRGSSALCIVATNTCLLAAATVDGFPPGQLNNVIEK
LGDYLRSNNY

>AIS82657.1 Putative aspartyl endopeptidase [Rhizopus oryzae]
MKFFALSLVVSAAFSVFTDAAITKIPIKKVHETATEKLSRYSHTGEYLTQKYFNSQRNNQ
PMETFKLNPDGSANHGVPLSNYLNAQYYGEIEIGTPPQPFTVVFDTGSSNLWVPSTHCTS
IACFLHKRYDSASSRTYSENGTEFAIQYGTGSLEGFISQDTLSVGGIQVEDQGFAESTKE
PGLTFAFAKFDGIFGLGYDTISVKHTIPPFYHMVNRDLVDEPLFSFWLNDANKDQDNGGE
LIFGGVDEDHFEGDIHWSDVRRKGYWEITMENIKFGDDYVDIDPVGAAIDTGSSLLVAPT
TVAALINKELGAEKNWAGQYVVDCNKVPSLPEFCFVFNGKDFCLEGKDYVLEVQGQCISG
FMGMDIPEPAGPLWIVGDVFLRKFYSVYDLGNNRVGLAPSK

>2MFK_A Allergen Chain A, Nmr Solution Structure Of Chitin-binding Domain
From Dust Mite Group Xii Allergen Blo T 12 [Blomia tropicalis]
GPLGSDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWYITVMPCSIGTKFDP
ISRNCVLDN

>AJE61290.1 Allergen Pru p 1.0201 [Prunus persica]
MGVFTYSDESTSVIPPPRLFKALVLEADTLIPKIAPQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYNYTLVEGDALSDKVEKITYEIKLVASADGGSIIKSTSN
YHTKGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>AJE61291.1 Allergen Pru p 1.0301 [Prunus persica]
MGVFTYETEFTSVIPPEKLFKAFILDADNLIPKIAPTAVKDTEILEGDGGVGTIKKVTFG
EGSQYGYVKHRIDGIDKDNLTYSYTLIEGDALSDVIEKIVYDIKLVASPNGGSIVKTISH
YHTKGDVEIKEEQVKAGKEKAAGLFKLVEGYLLANPDAYN

>CEJ95862.1 Putative albumin, partial [Pinus pinea]
CRDYLQRRREQPSERRCEELERMSPQCRCRAIQQVLDQSQSYDSITDDLFMDSEAAPNQR
RRRRESRGREEEEEAEERAAYLPETCNVRQPPRRCDVQRRSRYFTSGTDF

>AJO53282.1 Putative chymotrypsin-like protein [Blattella germanica]
MQYCAVLFFAAAVACAYGAELAALDPSTRVVGGTNAATGEFPFIVSLRSTSNSHFCGGSI
ISNYYVITAAHCVSGSSASSVVVVAGTNTLNSGGTSYRVSRIVVHSGYNSNTIVNDIALL
RLSSAISYNSYVQPIALPAQGETSGAGVAAVASGWGYTSYPGWSLPNNLQKVSLSVISNT
QCSSYMNNIYSSSICASGGNGKGVCNGDSGGPLTAGGKLIGLVSWGRPCAVGYPDVYTRV
SSYVSWINQNAV

>AKH04310.1 Allergen alpha-amylase [Periplaneta americana]
MKLFALLALVVLLAGVQSQKDPKLVPDESTLLRLFEWKFDDIADECERFLAPKGYAGVQV
SPVHKNLLYTATAPGLWERYQPMSYKLVSRSGDETAFRDMVRRCNAVGVRIYVDVVLNHM
SGNWDNAVGTGGSTADTYNYSYPGVPYDHSDFHPYCILNDYQDPEIVRNCELVGLHDLDQ
SQDYVREKLIDFLNHLVDAGVAGFRVDAAKHMWPADLEYIYGKVNNRNSDAGYCGDSSPS

RYQEVIDLGGEAVSKFEYNGFGRVTEFKHSEQIGYAFRGNNRLEWTYTYKPNWGLLPSGD
ALVFVDNHDNQRGGGNAILTYKTPKNYKMAIAFILAHPYGYPRVMSSFDFEAHDQGPPQD
SDKNILSPSINADGTCGNGWVCEHRWRQHANMVGFRNAVRGTEITNWWDNGNHQIGFCRG
DRGFVAFNVEDNDLKQTLQTCLPAGTYCDVISGSKNNRAHLGAELVVAPNGEAFSVRLIS
DDDGVLAIHLEEKL

>AKH04311.1 Allergen chitinase [Periplaneta americana]
MKLTSLVAVGVGVFLAAALQTCKGFIRDFKTHRQLQEKGDDRAVFCYYGSWATYRWGIAT
FEVDNIDTRLCTHIVYAFTGLRDGVIVSLDEYNDYEENWGKGLMKKFTTLAKNNGIKALV
GLGGWNEGSVKYSEMAATQAGRETFADSAVAFLQKQGFDGLDLDWEYPARRGGVPEDKDN
FTLLLKTLSEKLHARGLILTVAVSADPKTAANAYDFPNVAKYADYITLMSFDYHTPSSDT
VTGLNSPLDSLPQDTGYNKKLNVKYSVNQWLKGGVPPNKLVLGVPLYGRTYRLADPDQHG
LGAPILGPGTAGLYTQEAGFLAYYEICSNPDWNVVWNDTSSYLYAYKDYQWLSYDDPNTI
TIKAQWVLEKNLGGVMVWSLESDDFHGNCGKGAYPLLTAVNKALGRL

>AKJ77985.1 Putative ElF1 superfamily transcriptions factor [Triticum aestivum]
MGKRKAAAKPPPRKGMDKLDTVFSCPFCNHGSSVECRIDLKNLIGEANCQICQESFSTTA
NALTEAIDVYSEWIDECERVNTVEGDDGA

>AKJ77986.1 Putative hypothetical protein, partial [Triticum aestivum]
EFTNTCMECLVCDVHVACGDFASNDVIDPAKFRRLGINDCLVNDGKSIEPSFPVSFQYGN
SFPYPMTVASASCDCN

>AKJ77987.1 Putative hypothetical protein [Triticum aestivum]
MTLVASSSLDPVWVEVLGDPLLRRLLLRFIFCRATLSLFKASNDKAECLPSCVPPLPESV
GGESMLSQCCVMRVASFLGAADQFSFAEVTTWPDIDEPTSSGGVDKEL

>AKJ77988.1 Putative mitochondrial ubiquitin ligase activator of NFKB 1-like protein, partial [Triticum aestivum]
EMGDGQLCVICLRKRRRAAFVPCGHLVCCCNCAKRVELMDEPLCPVCRQDIQYMLRVYDS

>AKJ77990.1 Putative endosperm transfer cell specific PR60 precursor [Triticum aestivum]
MAKLMCLCFIILTIAVVVSADECEGDRQEMIKQCAKYQQWPANPKVNPSDACCAVWQKAN
IPCLCAGVTKEKEKIWCMEKVAYVANFCKKPFPHGYKCGSYTFPPLA

>AKV72169.1 Putative allergen Koc s 1, partial [Bassia scoparia]
MAKCQAVFLLVGALCVLSLDDVAKAPVSQFHIQGLVYCDTCPYPSSYVLPMLEGATVKLE
CRNITAGTQTFKAEAVTDKVGQYSIPVDGDFEDDICEIELLKSPDNQCSEVSHDVYAKQS
AKVSLTSNNGEASDVRSANALGFMRKEPLEECPEVLKELDLYDVKAN

>XP_013623213.1 Allergen PREDICTED: non-specific lipid-transfer protein 3-like [Brassica oleracea var. oleracea]
MASALSFFTCLVLTVCIVASVDAAISCGTVTSNLAPCAVYLMKGGPVPAPCCAGVSKLNS
MAKTTPDRQQACKCLKTAAKNVNPSLASSLPGKCGVSIPYPISMSTNCDTVK

>ALA65345.1 Putative ubiquinol-cytochrome c reductase binding protein-like protein [Dermatophagoides pteronyssinus]
MVHLTKTLRFINNPGFRKFYYGLQGYNKYGLYYDDFYDYTDPAHLEAVRRLPPDLYDQHT
YRVIRASQLEITKQFLPKEQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWVNFLSKD

>ALF39466.1 Allergen pollen antigen 3.01 precursor, partial [Platanus x acerifolia]
AAITCGQVVSKLTNCLSYLRSGGTVSTACCNGVTSLNKMANSTSDRQAACNCLKSAYKSI
SGIKLQYSQSLAGKCGVNLPYKISPDIDCSKVK

>XP_005902099.2 Allergen PREDICTED: beta-casein isoform X2 [Bos grunniens mutus]
MPLNTIYKQPQNQIIIHSAPPSLLVLYFGKKELRAMKVLILACLVALALARELEELNVPG
EIVESLSSSEESITRINKKIEKFQSEEQQQTEDELQDKIHPFAQTQSLVYPFPGPIPNSL
PQNIPPLTQTPVVVPPFLQPEVMGVSKVKEAMAPKHKEMPFPKYPVEPFTESQSLTLTDV
ENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSLSQSKVLPVPQKAVPYPQRDMPIQAF
LLYQEPVLGPVRGPFPIIV

>Q6EBC1.1 Conglutin beta 2; Lup an 1 [Lupinus albus]
MGKMRVRFPTLVLVLGIVFLMAVSIGIAYGEKDVLKSHERPEEREQEEWQPRRQRPQSRR
EEREQEQEQGSPSYPRRQSGYERRQYHERSEQREEREQEQQQGSPSYSRRQRNPYHFSSQ
RFQTLYKNRNGKIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYVLVVLN
GRATITIVNPDRRQAYNLEYGDALRIPAGSTSYILNPDDNQKLRVVKLAIPINNPGYFYD
FYPSSTKDQQSYFSGFSRNTLEATFNTRYEEIQRIILGNEDEQEYEEQRRGQEQSDQDEG
VIVIVSKKQIQKLTKHAQSSSGKDKPSDSGPFNLRSNEPIYSNKYGNFYEITPDRNPQVQ
DLNISLTYIKINEGALLLPHYNSKAIYVVVVDEGEGNYELVGIRDQQRQQDEQEEKEEEV
IRYSARLSEGDIFVIPAGYPISINASSNLRLLGFGINADENQRNFLAGSKDNVIRQLDRA
VNELTFPGSAEDIERLIKNQQQSYFANGQPQQQQQQQSEKEGRRGRRGSSLPF

>P85984.1 Profilin; Pollen allergen Beta v 2; [Beta vulgaris]
YMVIQGEPGAVIRLGDYLIDQGL

>4X9U_A Chain A, Crystal Structure Kiwifruit Allergen Act D 5 [Actinidia deliciosa]
ISSCNGPCRDLNDCDGQLICIKGKCNDDPQVGTHICRGTTXSXQPGGCKPSGTLTCRGKS
HPTYDCSPPVTSSTPAKLTNNDFSEGGDDGGPSECDESYHNNNERIVALSTGWYNGGSRC
GKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNVG
VVDITWSMA

>AKV72168.1 Ama r 1, partial [Amaranthus retroflexus]
MAKCQAVFLLVGALCVLSLDDVAKAPVSQFHIQGLVYCDTCRIQFMTRISTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLTSNNGEASDIRSANALGFMRKEPLEECPEVLKELDLYDVKAN

>BAT62430.1 Ani s 14 [Anisakis simplex]
MQVKCIAKYGEQFCSSMLSVCSSMLSIPWKNDSVQRLPPGIVGCAQTTDPVVQCRAKYSE
SFCNRLGAACSKVTGTDIPAFSRGGGEYRLPEAISQCIAQENIVAMCYASKCSQQCDGWR
VTCNINGGMAQLTPEQVTCFEKQSGLVALKTSCRTNPLNAQCRQIREPFETPKCTTAIPY
LKISQTVINGQIHVQQLVSGGMTGVQVSKTVETVIKT

>F5B8V9.1 Conglutin beta 1; Lup an 1 [Lupinus angustifolius]
MAKMRVRLPMLILLLGVVFLLAASIGIAYGEKDFTKNPPKEREEEEHEPRQQPRPRQQEE
QEREHRREEKHDGEPSRGRSQSEESQEEEHERRREHHREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQGSSSGSQRGSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPDKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGKLYDFYPSTTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENEKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINEGALLLPHYNSKAIFIVVVDEGEGNYELVGIRDQQRQ
QDEQEEEYEQGEEEVRRYSDKLSKGDVFIIPAGHPLSINASSNLRLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGRR
GPISSILNALY

>F5B8W0.1 Conglutin beta 2; Lup an 1 [Lupinus angustifolius]
MANMRVKFPTLVLLLGIVFLMAVSIGIAYGEKNAIKNHERPQEREQEERDPRQQPRPRHQ
EEQEREHGREEERNREPSRGRSESEESREEEREQRREPSRGREQEQQPQHGRREEEEEWQ
PRRQRPQSRREEREQEQGSSSSSGRQSGYERREQREEREQQQEQDSRSESRRQRNPYYFS
YERFQTLYKNRNGQIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYILVV

LNGRATITIVNPDKRQAYNLEHGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPGNF
YDFYPSSTKDQQSYFNGFSRNTLEATFNTRYEEIQRIILGNEDGQEDEEQSRGQEQSHQD
QGVIVRVSKEQIQELRKHAQSSSGKGKPSESGPFNLRSDEPIYSNKFGNFYEITPDRNPQ
AQDLDISLTFIEINEGGLLLPHYNSKAIFVVVVDEGEGNYELVGIRDQERQQDEQEQEEV
RRYNAKLSEGDIFVIPAGHPISINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDKE
VKQLTFPGSVEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGRRGLSFPFRSLFTKLLS
TIM

>F5B8W1.1 Conglutin beta 3; Lup an 1 [Lupinus angustifolius]
MAKMRVRFPTLVLLLGIVFLMAVSIGIAYGEKNVLKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRRESEESQEEEREQRREPRREREQEQQPQHGRREEEEEWQPRRQRPQSRREER
EQEQGSSSSSRRQSGYERREQREEREQEQEQGSRSDSRRQRNPYYFSSERFQTLYRNRNG
QIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNGSATITIVNPD
KRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPGNFYDFYPSSSKDQQS
YFSGFSKNTLEATFNTRYEEIQSILLGNEDEQEDDEQWHGQEQSHQDEGVIVRVSKEQVQ
ELRKYAQSSSRKGKPYESGPFNLRSNKPIYSNKFGNFYEITPDRNPQAQDLDISLTFIEI
NEGALLLPHYNSKAIFVVVVDEGEGNYELVGIRDQQRQQDEQEVRRYSARLSEGDIFVIP
AGHPISINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDREVKGLIFPGSAEDVERL
IKNQQQSYFANAQPQQQQQREREGRHGRRGHISSILSTLY

>F5B8W2.1 Conglutin beta 4; Lup an 1 [Lupinus angustifolius]
MIKMRVRFPTLVLLLGIVFLMAVSIGIAYGEKNVIKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRREEERDREPSRGRSESEESREEEREQRREPRREREQEQQPQHGRREEEEEWQ
PRRQRPQSRREEREQEQGSSSSSRRQSGYERREEREQEQEQGSRSDSRRQRNPYYFSSER
FQTLYRNRNGQIRVLERFDQRTDRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNG
SATITIVNPDKRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPGNFYDF
YPSSSKDQQSYFSGFSRNTLEATFNTRYEEIQRILLGNEDEQEDDEQRHGQEQSHQDEGV
IVRVSKEQVQELRKYAQSSSRKGKPSKSGPFNLRSNKPIYSNKFGNFYEITPNRNPQAQD
LDISLTFIEINEGALLLPHYNSKAIFVVLVDEGEGNYELVGIRDQQRQQDEQEVRRYSAR
LSEGDIFVIPAGHPISINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDTEVKGLTF
PGSTEDVERLIKNQQQSYFANAQPQQQQQREREGRRGRRGHISSILSTLY

>F5B8W3.1 Conglutin beta 5; Lup an 1 [Lupinus angustifolius]
MAKMRVRFPMLVLLLGVVFLLAVSIGIAYGEKDVIKNPERPEERQEEERDPRQPPRSRQQ
EEQEREHRREKERDREPSRGRSESKQSQEEERERRKEHDREREQEQQPQYGRRHEEEEKG
EEEEEGQARRQRPQRRREEREQEQGSSSESRRQSGDERRHRHEKREQREEREQEQGSSSG
RQSDYGRRQRHEGREQREEREQEQGSSSESHRLRNPYYFSSERFQTRYKNKNGQIRVLER
FDQRTNRLENLQNYRIVEFQSRPNTLILPKHSDADYILVVLNGRATITIVNPDKRQAYNL
EYGDALRLPAGTTSYILNPDDNQDLRVVKLAIPINNPGKFYDFYPSRTKDQQSYFSGFSK
NTLEATFNTHYEEIQRILLGYEDEQEDEEQRREQEQSHQDEGVIVRVSKEQIQELRKHAQ
SSSRKGKPSESGPFNLRSNEPIYSNKFGNFYEITPDRNPQVQDLDISLIFTEISEGALLL
PHYNSKAIFVIVVDEGEGNYELVGIRNQQRQQDEQEVEEVRSYNARLSEGDILVIPAGHP
LSINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDREVKELIFPGSAEDVERLIRNQ
QQSYFANAQPQQQQQQREKEGRRGRRGPISSILSALY

>F5B8W5.1 Conglutin beta 7; Lup an 1 [Lupinus angustifolius]
MARMRVRFPTLVLLLGILFLMAVSIGIAYGEKDVIKNHERPGEREHEERDPRQQPRPRKQ
EEQEREHRREEEHDRDPSRGRRESEERQEEERERRREPCREREQEQQPQHGRREEEEEEE
EWQPRRLRPQSRKEEREQEQGSSSSSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRRQ
RNPYHFSSERFQTRYRNRNGQIRVLERFDQRTNRLENLQNYRIVEFQSNPNTLILPKHSD
ADYILVVLNGRATITIVNPDKRQAYNLEYGDALRVPAGTTSYILNPDDNQNLRVVKLAIP
INNPSNFYDFYPSSTKDQQSYFSGFSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRG
QEQSYQDEGVIVRVSKEQIQELRKHAQSSSRKGKPSESGPFNLRSNESIYSNKFGNFYEI
TPERNPQVQDLDISLTFTEINEGALLLPHYNSKAIFIVVVDEGEGNYELVGIRDQQRQQD
EQEEEEEEVRRYSARLSEGDIFVIPAGYPISVNASSNLRLLGFGINANENQRNFLAGSED
NVISQLDREVKELTFPGSAQDVERLIKNQQQSYFANAQPQQKQQREKEGRRGRRSLISSI
LSTLY

>B3EWP3.1 Defensin 1;Ara h 12 [Arachis hypogaea]
KTVAGFCIFFLVLFLAQEGVVKTEAKLCNHLADTYRGPCFTNASCDDHCKNKEHFVSGTC
MKMACWCAHNC

>B3EWP4.1 Defensin 2; Ara h 13.0101 [Arachis hypogaea]
VQKRTIIMEKKMAGFCIFFLILFLAQEYGVEGKECLNLSDKFKGPCLGSKNCDHHCRDIE
HLLSGVCRDDFRCWCNRKC

>C0HJZ1.1 Defensin 3; Ara h 13.0102 [Arachis hypogaea]
MEKKMAGFCIFFLVLFLAQEYGVEGKVCLNLSDKFKGPCLGTKNCDHHCRDIEHLLSGVC
RDDFRCWCNRNC
>1510259A H2 proteinase [Protobothrops flavoviridis]
ERFPQRYIELAIVVDHGMYKKYNQNSDKIKVRVHQMVNHINEMYRPLNIAISLNRLQIWS
KKDLITVKSASNVTLESFGNWRETVLLKQQNNDCAHLLTATNLNDNTIGLAYKKGMCNPK
LSVGLVQDYSPNVFMVAVTMTHELGHNLGMEHDDKDKCKCEACIMSDVISDKPSKLFSDC
SKNDYQTFLTKYNPQCILNAP

>3S18_B Chain B, Crystal Structure Of A Plant Albumin From Cicer
Arietinum Showing Hemagglutination [Cicer arietinum]
TKTGYINAAFRSSRNNEAYLFINDKYVLLDYAPGTSNDKVLYGPSFVRDGYKSLAKTIFG
TYGIDCSFDTEYNEAFIFYENFCARIDYAPHSDKDKIISGPKKIADMFPFFKGTVFENGI
DAAFRSTKGKEVYLFKGDKYARIDYLTNRLVQNKSISDTGFPCLRGTIFEAGMDSAFASH
KTNEAYLFKGEYYARINFTPGSTNDIMGGVKKTLDYWPSLRGIIPLE

>4ZCE_A Chain A, Crystal Structure Of The Dust Mite Allergen Der P 23
From Dermatophagoides Pteronyssinus [Dermatophagoides pteronyssinus]
SFTKFECPSRFGYFADPKDPHKFYICSNWEAVHKDCPGNTRWNEDEETCT

>5E1R_A Chain A, Crystal Structure Of Pecan (carya Illinoinensis)
Vicilin, A New Food Allergen [Carya illinoinensis]
MSREEEQQRHNPYYFHSQGLRSRHESGEGEVKYLERFTERTELLRGIENYRVVILEANPN
TFVLPYHKDAESVIVVTRGRATLTFVSQERRESFNLEYGDVIRVPAGATEYVINQDSNER
LEMVKLLQPVNNPGQFREYYAAGAQSTESYLRVFSNDILVAALNTPRDRLERFFDQQEQR
EGVIIRASQEKLRALSQHAMSAGQRPWGRRSSGGPISLKSQRSSYSNQFGQFFEACPEEH
RQLQEMDVLVNYAEIKRGAMMVPHYNSKATVVVYVVEGTGRFEMACPHDVSSQSYEYKGR
REQEEEESSTGQFQKVTARLARGDIFVIPAGHPIAITASQNENLRLVGFGINGKNNQRNF
LAGQNNIINQLEREAKELSFNMPREEIEEIFERQVESYFVPMERQSRRGQGRDHPLASIL
DFAGFF

>5EM0_A Chain A, Crystal Structure Of Mugwort Allergen Art V 4 [Artemisia
vulgaris]
GSGSWQTYVDDHLMXDIEGTGQHLTSAAIFGTDGTVWAKSASFPEFKPNEIDAIIKEFNE
AGQLAPTGLFLGGAKYMVIQGEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQCN
MVVERLGDYLLDQGM

>5EM1_A Chain A, Crystal Structure Of Ragweed Allergen Amb A 8 [Ambrosia
artemisiifolia]
GSGSWQTYVDEHLMXDIEGTGQHLASAAIFGTDGNVWAXSSSFPEFXPDEINAIIKEFSE
PGALAPTGLFLAGAXYMVIQGEPGAVIRGXXGAGGICIXXTGQAMVFGIYEEPVNPGQCN
MVVERLGDYLVDQGM

>5EV0_A Chain A, Crystal Structure Of Ragweed Profilin Amb A 8 In Complex
With Poly- Pro14 [Ambrosia artemisiifolia]
SGSWQTYVDEHLMXDIEGTGQHLASAAIFGTDGNVWAKSSSFPEFKPDEINAIIKEFSEP
GALAPTGLFLAGAKYMVIQGEPGAVIRGKKGAGGICIKKTGQAMVFGIYEEPVNPGQCNM
VVERLGDYLVDQGM

>A0A161AT60.1 Non-specific lipid-transfer protein 1; PsLTP1; Pis s 3 [Pisum sativum]
MARSMKLACVALVICMVVIAPMAEAALSCGTVSADMAPCVTYLQAPNNASPPPPCCAGVK
KLLAAATTTPDRQAACNCLKSAAGSIPKLNTNNAAALPGKCGVSIPYKISTSTNCNTVRF

>AAU43733.1 Profilin [Citrullus lanatus]
MSWQAYVDDHLMCEIEGNHLTSAAIIGQDGSVWAKSENFPQLKPEEITGILNDFNEPGTL
APTGLYIGGSKYMVIQGEPGAVIRGKKGPGGVTVKKTALALVIGIYDEPMTPGQCNMIVE
RLGDYLIEQGL

>ACX47057.1 Fra a 1 (isoform) [Fragaria x ananassa]
MGVFTYETEFTSVIPPPRLFKAFILDADNLIPKIAPQAVKCAEIIEGDGGVGTIKKITFG
EGSQFGSVTHKIDGIDKENFVYSYSLIEGDALSDKIEKISYETKLVSSSDGGSIIKSTSN
YHTKGDVEIKEEHVKAGKEKASHLFKLVEGYLLANPNEYC

>ACX47058.1 Fra a 1 (isoform) [Fragaria x ananassa]
MGVFTYESEFTSVIPPPKLFKAFVLDADNLIPKIAPQAVKSAEIIEGDGGVGTIKKIHLG
EGSEYSYVKHKIDGIDKDNFVYSYSIIEGDAIGDKIEKISYEIKLVASGGGSIIKSTSHY
HTKGEVEIKEEHVKAGKERAAGLFKIIENHLLAHPEEYN

>ADV71357.1 metalloproteinase PMMP-3 [Protobothrops mucrosquamatus]
MIEVLLVTICLAVFPYQGSSIILESGNVNDYEVVYPRKVSALPKGAVQPKYEDTMQYELK
ENGEPVVLHLEKNKGLFSEDYSETHYSPDGREITTYPSVEDHCYYHGRIHNDADSTASIS
ACDGLKGYFKLQGQTYLIEPLKLPDSEAHAVFKYENIEKEDEAPKMCGVTQNWESDESIK
KASQLYLTPEQQRFPQRYVKLAIVVDYRMYIKYNRDSNKITVRVHEMVNHVNEMYKPLNV
AITLSLLRIWSTRDLITVQSDSKVTLGSFGDWRKTVLLKQQSHDCAHLLTDITFTKNVIG
VAYKKGMCDPKLSVGLVQDYSSNVFVVAAIMTHELGHNLGMEHDEDENGKKCKCDTCIMS
PAISDPPAQLFSDCSKNDYHTFLTNSKPQCILNAPLRTDTVSTPVSGNEPL

>AEB54655.1 triosephosphate isomerase [Procambarus clarkii]
MANQRKFFVGGNWKMNGDRAGIDSIISFMKGPLSADTEVVVGCPQCYLMYTREHLPSNIG
VAAQNCYKVAKGAFTGEISPSMIKDCGCEWVILGHSERRNVFNEPDTLISEKVGHALEAG
LKVIPCIGEKLEERESNRTEEVVFAQMKALVPNISDWSRVVIAYEPVWAIGTGKTATPEQ
AQEVHAKLRQWLRDNVNAEVADSTRIIYGGSVTPGNCKELAKTGDIDGFLVGGASLKPDF
VQIINARD

>AFJ80778.1 sarcoplasmic calcium-binding protein [Scylla paramamosain]
MAYSWDNRVKYVVRYMYDIDNNGYLDKNDFECLALRNTLIEGRGEFNSDAYANNQKIMSN
LWNEIAELADFNKDGQVTVDEFKQAVQNLCCGKSFDGFPPCFKTVIGRLFKTIDINGDGL
AGVDEYRLDCISRSAFSSVKEIDDAYAKLCTDDDKKAGGISLNRYQELYAQFISNPDEKC
NAVYLFGPLKEVQ

>AHZ10957.1 Fra a 1.06 allergen [Fragaria x ananassa subsp. ananassa]
MGVFTYETEFTSVIPPPRLFKAFILDADNLIPKIAPQAVKCAEIVEGDGGVGTIKKITFG
EGSQFGSVTHKIDGIDKENFVYSYSLVEGDALSDKIEKISYETKLVASSDGGSVIKSTSN
YHTKGDVEIKEEHVKAGKEKASHLFKLVEDYLLANPNEYC

>AHZ10958.1 Fra a 1.07 allergen [Fragaria x ananassa subsp. ananassa]
MGVFTYETEFTSVIPPPRLYKAFVLDTDNLIPKIAPQAVKSTELVQGDGGVGTIKKIHLG
EGSEYSYVKHQIDGLDKDNFVYNYSIIEGDAIGDKVEKISYEIKLVASPSGGSIIKSTSH
YHCKGEVEIKEEHVKAGKERAAGLFKIIENYLLGNPDAYN

>AHZ10959.1 Fra a 1.08 allergen [Fragaria x ananassa subsp. ananassa]
MGVFTYETEFTSVIPPPRLYKAFVLDADNLIPKIAPQAVKSAEIVQGDGGVGTIKKIHLG
EGSEYSYVKHQIDGLDKDNFVYNYSIIEGDAIGDKVEKISYEIKLVASPSGGSIIKSTSH
YHCKGEVEIKEEHVKAGKEKAAGLFKIIENHLLANPEAYN

>AHZ97469.1 subtilisin-like serine protease, partial [Alternaria alternata]
PQRQMDSAKEVPNSYMVVFKKHVKDASKHHDWVQSVHSKNNEERMELRKRSSQFPVTTEV
FDGLKHVYEMAGMKGYSGHFDDETIEAIRNHPDVDYIERDSEVHTLGHDEPEIEKNSPWG
LARISHRDSLSFGTWNKYLYAADGGEGVDVYVIDTGTNTKHVDFEGRAKWGKTIPNGDAD
EDGNGHGTHCSGTVAGKKYGVAKKAHVYAVKVLRSNGSGTMSDVVKGVEYAAKAHSDTVQ
AAKDGKKKGFKGSAANMSLGGGKSTTLDLAVNAAVDAGIHFAVAAGNDNADSCNYSPAAA
ENAVTVGASTLLDERAYFSNYGKCNDIFAPGLNILSTWIGSEHATNTISGTSMASPHIAG
LLAYMLSLQPAKDSAYAVADITPKKLKANLISVATVGALSDVPRNTKNILAWNGGGSSNY
TEIVEKGGYTVKKAAEKNEEESEFRITIPSLSEIEDDFEKAKESAGRNAHRVGGKLQHLE
AEIEDFIAEEMESMFEKVKERVASQKL

>AJA79001.1 vacuolar serine protease, partial [Fusarium proliferatum]
DKCDGETERQAPWGLARISHRNTLNFGTFNKYLYSSDGGEGVDAYIVDTGTNVDHVDFEG
RAHWGKTIPSGDADEDGNGHGTHCSGTVAGKKYGVAKKANVYAVKVLRSNGSGSMSDVVK
GVEFAATSHLEQKKKAKDGKRKGFKGSVANMSLGGGKTQALDAAVNAAVRTGIHFAVAAG
NDNADACNYSPAAASEPVTVGASALDDSRAYFSNYGKCTDIFAPGLNIQSTWIGSKYAVN
TISGTSMASPHIAGLLAYYLSLQPAEDSEYALASITPKKLKENLISVATEDALSDIPSDT
PNLLAWNGGGCSDYKKIVEAGSYKVKAAPSSRVEEIKHAVEQEVNLVSGKLTTGAKELGS
KAEKFSKKIHELVDEELEEFLKELNL

>AK068307.NT Translation from Accession AK068307: Oryza sativa Japonica Group cDNA clone:J013136I11, full insert sequence [Oryza sativa Japonica Group]
MKLVSIYLLVLCVVGANELLVVAASGNDGGGGRFVYSGFAGANLTLDGTATVTPAGLIEL
TNGTLQLKGHAFHPTPLRFGFGSGGGGGGDGVVVRSFSASFVFGILSAYPDMSAHGIVFL
VSPTTDFSAALASQYLGLVNVTSNGDARNRIFAVELDTLQQDEFRDINDNHVGVDINGLV
SLQSTSAGYYAADINGGGFRNLTLISHEAMRVWVDYDAGDARIDVTLAPLAVAKPVRPLI
SAAYNLSSVITDTAYVGFSSATGSFNSRHYVLGWSFAVDGGPAPAIDVAKLPKLPREGPK
ARSKFLEIFLPIASAAVVLAMGILVILLVRRRKRYTELREDWEVEFGPHRFPYKDLHHAT
QGFESKCLLGVGGFGRVYKGVLPNSNVEIAVKRVSHDSSQGVKEFVAEVVSLGRLQHCNL
VRLLGYCRRKGELMLVYEYMSNGSLDKYLHGQDNKPTLSWAQRFQIIKDIASGLLYLHEE
CDKVVIHRDIKASNVLLDNEMNARLGDFGLARLYDHGEDPQSTHVVGTIGYLAPELGRTS
KATPLTDVFAFGTFILEVTCGRRPIYHDSHGTQVMLVDWVLDHWHKQSLVDTVDLKLHGE
FDVGEACLVLKLGLLCSHPFINARPDMRRVMQYLKREVALPELMPTSMSFHMLALMQNDG
FDSYVQSYPSSNSKGNISTATSSLLEEG

>AK119653.NT Translation from Accession AK119653: Oryza sativa Japonica Group cDNA clone:002-130-H01, full insert sequence [Oryza sativa Japonica Group]
MDRVRGCAFLLGVLLAGSLFAFSVAKEETKKLGTVIGIDLGTTYSCVGVYKNGHVEIIAN
DQGNRITPSWVAFTDSERLIGEAAKNQAAVNPERTIFDVKRLIGRKFEDKEVQRDMKLVP
YKIVNKDGKPYIQVKIKDGENKVFSPEEVSAMILGKMKETAEAYLGKKINDAVVTVPAYF
NDAQRQATKDAGVIAGLNVARIINEPTAAAIAYGLDKKGGEKNILVFDLGGGTFDVSILT
IDNGVFEVLATNGDTHLGGEDFDQRIMEYFIKLIKKKYSKDISKDNRALGKLRREAERAK
RALSNQHQVRVEIESLFDGTDFSEPLTRARFEELNNDLFRKTMGPVKKAMDDAGLEKSQI
HEIVLVGGSTRIPKAQQLLRDYFEGKEPNKGVNPDEAVAYGAAVQGSILSGEGGDETKDI
LLLDVAPLTLGIETVGGVMTKLIPRNTVIPTKKSQVFTTYQDQQTTVSIQVFEGERSMTK
DCRLLGKFDLSGIPAAPRGTPQIEVTFEVDANGILNVKAEDKGTGKSEKITITNEKGRLS
PEEIDRMVREAEEFAEEDKKVKERIDARNQLETYVYNMKNTVGDKDKLADKLESEEKEKV
EEALKEALEWLDENQTAEKEEYEEKLKEVEAVCNPIISAVYQRTGGAPGGGADGEGGVDD
EHDEL

>AK242260.NT Translation from Accession AK242260: Oryza sativa Japonica Group cDNA, clone: J075184G19, full insert sequence [Oryza sativa Japonica Group]
MKIIFVFALLAIAACSASAQFDVLGQSYRQYQLQSPVLLQQQVLSPYNEFVRQQYGIAAS
PFLQSAAFQLRNNQVWQQLALVAQQSHYQDINIVQAIAQQLQLQQFGDLYFDRNLAQAQA

LLAFNVPSRYGIYPRYYGAPSTITTLGGVL

>AKF12278.1 Par h I precursor [Parthenium hysterophorus]
MAKSSTSYLVFLLLVLVVAISEIASVNGKVCEKPSKTWFGNCKDTEKCDKRCMEWEGAKH
GACHQRESKYMCFCYFDCDPKKNPGPPPGAPGTPGTPPAPPGGGEGDAPPGGGAPPPAGG
EGGGGGGEGGGGAPPPAGGEGGGGGGDGGGGAPPAA

>AKV72166.1 allergen Aca f 1, partial [Acacia farnesiana]
DDVPKPPVSQFHVQGLVYCDTCRYPFITEASPIMEGATVKLECRNITAGTQTFKAEAVTD
KVGQYSIPVDGDHEDDICEIELVKSPDNQCSEIPHDVYAKQSAKVSLTSNNGEASDVRSA
NALGFMRKEPLPECPEVLKEKLDMYDVKAN

>AKV72167.1 allergen Pro j 1, partial [Prosopis Juliflora]
DDVAKPPVSQFHIQGLVYCDTCRIQFMTRVSTIMEGATVKLECRNITAGTQTFKAEAVTD
KVGQYSIPVNGDFEDDICEIELVKSPNSDCSEIPHDVYAKQSAKVSLTSNNGEASDIRSA
NALGFMRKEPLKECPEVSKEPLDMYDVKAN

>ALM30773.1 triose phosphate isomerase [Amphioctopus fangsiao]
MGRKFFVGGNWKLNGNKKSIDGIIEFMNAGPLNADTEVVVGPPSCYLEYVRSKLKGNIGV
AAQNCYKVPSGAFTGDISPAMIKDIGLRYVILGHSERRNVFGETDELIGEKIEHAVSEGL
IVIACIGEKLEEREAGKTEEVVFSQTKTIIKHTKDWSKVVIAYEPIWAIGTGKTATPEQA
QSVHASLRKFISENASKEIADNVRILYGGSVSAANCKELGQKPDIDGFLVGGASLKPDFV
KIVNARA

>ANQ43386.1 Man i 1 allergen [Mangifera indica]
MAGGKKIKIGINGFGRIGRLVARVALQRNDVELVAVNDPFITTDYMTYMFKYDTVHGQWK
HHEVKIKDQKTLLFDEKPVTVFGIRNPEEIPWAETGAEFVVESTGVFTDKEKAAAHLKGG
AEKVVISAPSKDAPMFVVGVNEKEYKPELNIVSNASCTTNCLAPLAKVINDRFGIVEGLM
TTVHSITATQKTVDGPSMKDWRGGRAASFNIIPSSTGAAKAVGKVLPSLNGKLTGMSFRV
PTVDVSVVDLTVRLEKEATYEEIKAAIKEESEGKLKGILGYTEEDVVSTDFVGDSRSSIF
DAKAGIALNKKFVKLVSWYDNEWGYSSRVIDLIVHMASTA

>ANZ22900.1 enolase 2 [Ambrosia artemisiifolia]
MATIKAVKARQIFDSRGNPTVEVDITLSDGTLARAAVPSGASTGIYEALELRDGGSDYLG
KGVSKAVANVNTIIGPALVGKDPTDQTGIDNFMVQQLDGTQNEWGWCKQKLGANAILAVS
LAVCKAGASVLKTPLYKHIANLAGNKNLVLPVPAFNVINGGSHAGNKLAMQEFMILPIGA
SSFKEAMKMGVEVYHNLKSVIKKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKAG
YTDKVVIGMDVAASEFYGEKDKTYDLNFKEENNDGKEKISGEQLKDLYKSFVSEYPIVSI
EDPFDQDDWEHYAKMTAECGEQVQIVGDDLLVTNPTRVKKAIDEKTCNALLLKVNQIGSV
TESIEAVRMSKHAGWGVMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIEEELGSEAVYAGANFRKPVEPY

>ANZ22901.1 enolase 1 [Ambrosia artemisiifolia]
MLFVDEIKVDITLSDGTLARAAVPSGASTGIYEALELRDGGSDYLGKGVSKAVANVNTII
GPALVGKDPTDQTGIDNFMVQQLDGTQNEWGWCKQKLGANAILAVPLAVCKAGASVLKTP
LYKHIANLAGNKNLVLPVPAFNVINGGSHAGNKLAMQEFMILPIGASSFKEAMKMGVEVY
HNLKSVIKKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKAGYTDKVVIGMDVAAS
EFYGEKDKTYDLNFKEENNDGKEKISGEQLKDLYKSFVSEYPIVSIEDPFDQDDWEHYAK
MTAECGEQVQIVGDDLLVTNPTRVKKAIDEKTCNALLLKVNQIGSVTESIEAVRMSKHAG
WGVMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQLLRIEEELGSEAVYA
GANFRKPVEPY

>XP_005598291.1 secretoglobin family 1D member [Equus caballus]
MRLFLPVLLVTLALCCCETNAATCPAVATDIASFFLLPDSLFKLQLIKYQAPPEAKDATM
QVKQCINEISAGDRYIITETLGKIVLQCGA

>XP_003362701.1 mammaglobin-A [Equus caballus]
MKLVTVLMLVAFPLYCYAGSGCQLLEDVVEKTITAELSPAEYVEAVQEFIPDEATEKAAI

QLKQCYLKQSNETLNDFRTMMNSMYNSAYCALF

>APD76154.1 pathogenesis related protein 10 [Juglans regia]
MGVFTYETESTSVIPPARLFKAFVLDADNLIPKVVPQAVKSSEIIEGNGGPGTIKKINFG
EGSQYKYVKHRTDAIDEANFTYAYSVIEGDALADKIEKISYETKIVASHEGGSILKSISH
YHSKGDHEIKEEDVKDGKEKASGLFKAVEGYLLAHPDAYN

>APR62629.1 legumin [Juglans nigra]
MAKPILLSISLCLVALVNGCLAQSGGRQQPRFGECKLKRLVALEPSNRIEAEAGVIESWD
PNNQQFQCAGVAVVRRTIEPNGLLLPQYSNAPQLLYIVKGRGITGVLFPGCPETFEESQQ
GQSRIRPSLRSASFQRDRHQKIRHFREGDVIAFPAGVAHWCYNDGDTPVVAVALMDTTNN
ANQLDQNPRNFYLAGNPDDEFRPQGQQEYEQHRRQQQHQQRHGEPGQQQRGSGNNVFSGF
DADFLADAFNVDTETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERE
RESESERRQSRRGGRDDNGLEETICTLRLRENIGDPSRADIYTEEAGRISTANSHTLPVL
RWLQLSAERGALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLL
TIPQNFAVVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLANALQIPREDAR
RLKFNRQESTLVRSRPSSSRSSRSERRAEV

>ARG42047.1 major urinary protein-like lipocalin 2 precursor
[Mesocricetus auratus]
MKLLLLLLVLGLELTLVCVHAEEKTSLTGKNFNPEKIVGKWHSILLASDKREMIEEYGSM
RMFMEYIRLFKNSSLAVKFHTIANEECTELYLVCDKTEKGGVYDAKYDGYNRFTILDTDY
NDYIITHLRNIKNGETFQLMKLCGRKPKLSSNIKKKFGDLCQKHGIVKENIIDLTEADHC
LKTQVEIVA

>ARS33724.1 Sal k 6.01 allergen [Kali turgidum]
MKTFNLPLLVALFYLFVSVARSQGPIDITKFGAKPNADATSALLAAWKEACAAAAPAKIV
VPAGEFLLNAVKLQGPCKAPLTIEIAGNFKAPADVAQMKGEDTWVKIENVQGLTITCLPT
GGTFDGQGQAAWKQNKCAQSGMCNSLPYNFRFNTLTNAQISGIKSLNSKLYHMGVMGCKN
ITLTGLTIDAPKDSLNTDGMHIGRSNGVHATNSKIGTGDDCISMGDGAVDVHVEGITCGP
GHGISIGSMGKFANEAPNTGIFVKNCSFTDTDNGVRIKSWMNSFEASASDLHFEDITVTN
VLNPVIIDQEYCPYNHCKEKTPSKVKLSKISFKNVHGAAKSAEVVKLLCSSAVPCDGVEL
ADIDLTFPGGAAVSQCKNVKPIVTGKQNPVACGAPATPAAP

>B8AL97.1 Cupincin; 52 kDa globulin-like protein; Ory s NRA [Oryza sativa
Indica Group]
MAKKKTSSSMARSQLAALLISLCFLSLASNAVGWSRRGEREEEDERRRHGGEGGRPYHFG
EESFRHWTRTRHGRFSVLERFPDEQVVGAAVGGYRVAVLEAAPRAFLQPSHYDADEVFYV
KEGEGVIVLLREGRKESFCVREGDAMVIPAGAIVYSANTHSSKWFRVVMLLNPVSTPGHF
EEYFPVGGDRPESFFSAFSDDVLQAAFNTRREELEKVFERQREGGEITTAPEEQIRELSK
SCSRGGGGGSGSEWEIKPSSLTGKSPYFSNNHGKLFELTGDECRHLKKLDLQIGLANITR
GSMIAPNYNTRATKLAVVLQGSGYFEMACPHVSGGGSSERRERERERHGRRREEEQGEEEH
GERGEKARRYHKVRAQVREGSVIVIPASHPATIVASEGESLAVVCFFVGANHDEKVFLAG
RNSPLRQLDDPAKKLVFGGSAAREADRVLAAQPEQILLRGPHGRGSVSDM

>BAG86826.1 unnamed protein product [Oryza sativa Japonica Group]
MKMKALLPVAAMLLLVSGQLAAPVTADGYVGQLAVFWGRHKEEGSLREACDTGRYNIVVI
TFYNVFGYQRGRYGLDFSGHPVAAVGADIKHCQSKGVQVLLSIGGQGGEYSLPSSQSASD
VADNLWNAYLGGRRAGVPRPFGDAVVDGIDFFIDQGGADHYEQLARQLHGRGVLLTATVR
CAYPDSRMEAALATGVFARIHVRIFGDDQCTMFPKDAWEKWAAAYPRCTVFLTVVASPEQ
DEGYMFQKDLYYGVQQFIDKEPNYGGIAIWDRYYDKKANYSGEG

>BAG88472.1 unnamed protein product [Oryza sativa Japonica Group]
MASSSFSFLLVAALLGLASWKAIASDPSPLQDFCVADLNSPVRVNGFVCKNPMNASADDF
FKAAMLDKPRDTNNKVGSNVTLVNVLQLPGLNTLGISIARLDFAPLGLNPPHTHPRATEI
FTVLEGTLYVGFVTSNPDNRLLSKVLNKGDVFVFPEGLIHFQFNPNPHKPAVAIAALSSQ
NPGVITIANAVFGSNPPISDDILMKAFQVDKKIIDLLQAQF

>BAG93480.1 unnamed protein product [Oryza sativa Japonica Group]
MPPDVEVIRHEHIDHPSSTRDRSVVVSSNSLSNTVSAYTDMKNTSSLCLLLLVVLCSLTC
NSGQAQVLFQGFNWESWKQQGGWYNMLKGQVDDIAKAGVTHVWLPPPSHSVAPQGYMPGR
LYDLDASKYGTAAELKSLIAAFHGKGVQCVADVVINHRCAEKKDARGVYCVFEGGTPDDR
LDWGPGMICSDDTQYSDGTGHRDTGEGFGAAPDIDHLNPRVQRELTDWLNWLKSDVGFDG
WRLDFAKGYSTDIAKMYVESCKPGFVVAEIWNSLSYNGDGKPAANQDQGRQELVNWVNAV
GGPAMTFDFTTKGLLQAGVQGELWRLRDGNGKAAGMIGWLPEKAVTFVDNHDTGSTQKLW
PFPSDKVMQGYAYILTHPGVPCIFYDHMFDWNLKQEITALAAIRERNGINAGSKLRIVVA
DADAYVAVVDEKVMVKIGTRYDVGNAVPSDFHQTVHGKDYSVWEKGSLRVPAGRHL

>BAG95020.1 unnamed protein product [Oryza sativa Japonica Group]
MEQYEKVEKIGEGTYGVVYKGKHRHTNETIALKKIRLEQEDEGVPSTAIREISLLKEMQH
RNIVRLQDVVHKEKCIYLVFEYLDLDLKKHMDSSPDFKNHRIVKSFLYQILRGIAYCHSH
RVLHRDLKPQNLLIDRRTNSLKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGARHY
STPVDMWSVGCIFAEMVNQKPLFPGDSEIDELFKIFSIMGTPNEETWPGVASLPDYISTF
PKWPSVDLATVVPTLDSSGLDLLSKMLRLDPSKRINARAALEHEYFKDLEVA

>BAH01262.1 unnamed protein product [Oryza sativa Japonica Group]
MKIIFFFALLAIAACSASAQFDAVTQVYRQYQLQPHLMLQQQMLSPCGEFVRQQCSTVAT
PFFQSPVFQLRNCQVMQQQCCQQLRMIAQQSHCQAISSVQAIVQQLRLQQFASVYFDQSQ
AQAQAMLALNMPSICGIYPSYNTAPCSIPTVGGIWY

>BAV90601.1 enamine/imine deaminase [Dermatophagoides farinae]
MSPKRIISTPLAPQPIGPYSQAVQVGNTVYLSGQIGMNVRTNEMVTGPIRDEAQQAFTNM
KAVVEASGAKMSDVVKVNIFIRNFNDFPAINDVMKEFFQSPFPARSTVGVAELPKNARVE
IESIVVIE

>BAW03242.1 allergen protein [Liposcelis bostrychophila]
MAAIKFILIAFLAFSVSQTTEANVVAQPKAFDIIAIVKQVIDIVRIVVKAVNDAVPDIDK
ILQQLVALLPSDVAATVTTVLDAIKQAITDENARIDHIIQVLEKAMDDLLAIDPCYQPQA
DAIKAVLDKALSGIDGVLHGSIDAHKADIDNVIAGFSQDLEDLRNLYDTQLPAAVVCLTP
GNAESCGCLDGVKETVVNGVVSLAANFVLHLTAASDVLKVVVPEVINGSTPIVNDGLAAA
GPLIDNVCTCVAAM

>BAW03243.1 allergen protein [Liposcelis bostrychophila]
MAAFKFILLAFLAFSVSQTTEANVVAQPRAFDIIDIVKKVIQIVEIVVEAVNGAVEPIDK
ILQELIALLPADVAKTVTAVVDALRQAIADENVRIDHIIEVLNKALDDLLAIDPCYQPQA
DAIKAVLDTALSGIDKVLHGSIDAHKADIDNVIAGFSQDLEDLRNLYDTQLPAAVVCLTP
GNADSCTCLDGVKETVVNGVVSLAANFVLHLTAASDVLKVVVPEVIDGATPVVNDGLAAA
GPLIDNVCACVQGM

>BAX34757.1 group II allergen [Dermatophagoides farinae]
MIKFLCIFALTFAVASAGKMKFVDCGHKEVISLDVSGCEGDYCVLHKGKTIDLDMKCKSN
QDSEHLKLIISADVNGIEIEVPGFDQDGCHYVQCPIHKGQDYDIKYSYNVPAVLPNIKGT
LTAKVIGDNGLVGCLKLNGEIAD

>C0HJX6.1 Profilin; Pla l 2 [Plantago lanceolata]
AILGQDGSVWAQGLHLGGAKYVIAGEPGAVIRLGDYLLDQGL

>C0HKB1.1 Polygalacturonase; Cup s 2 [Cupressus sempervirens]
DVAIVFNVEHTLSAVFLVPANKKVDGIIAAYPDPVKIWMHFARTVCNDKGRPTAIKIDFS
KSELTLMNSPEFHLVFGECDGVKIQGIKIKRFEIEKDLTCGPGHGMSIGSLGKGNSRSEV
SFVHLDGAKFIDTQNGLRSAVKIEDVTFKNANGYYTNPLNPPCK

>C0HKC0.1 Pommaclein; Pun g 1 [Punica granatum]
GSSFCDSKCAVRCSKAGVQD

>CAA58223.1 mucofirase 3 [Protobothrops mucrosquamatus]

MVLIRVLANLLILQLSYAQKSSELVIGGDECNINEHPFLVLVYYDDYQCGGTLLNEEWVL
TAAHCNGKDMEIYLGVHSKKVPNKDVQRRVPKEKFFCDSSKTYTKWNKDIMLIRLDRPVR
KSAHIAPLSLPSSPPSVGSVCRVMGWGTITSPQETYPDVPHCANINLLDYEVCRAAYAGL
PATSRTLCAGILEGGKDSCVGDSGGPLICNGQFQGIVSWGGDPCAQPREPGVYTNVFDHL
DWIKGIIAGNTDVTCPL

>CEE03318.1 Allergenic protein Tha p 2, partial [Thaumetopoea solitaria]
VPQLSEKAEKAVDLTYQEKNNLFELGSVVGDIISKNGCHVSFGCHKGYCWAGCGNPTNPW
SWGENWCYTTKTYSQSYSYVQCTQDSECDGCWKCGGPCSA

>XP_008286259.1 parvalbumin beta; partial 32 aa sequence [Stegastes partitus]
KAFAIIDQDKSGFIEEDELKLFLQNFSAGARA

>L7UZ85.1 Alpha-actinin; F-actin cross-linking protein; Der f 24 [Dermatophagoides farinae]
MTQDGYMQQEEEEWEREGLLDPAWEKQQRKTFTAWCNSHLRKAGTQIDNIEEDFRNGLKL
MLLLEVISGETLGKPDRGKMRFHKIANVNKALDFIESKGVKLVSIGAEEIVDGNSKMTLG
LIWTIILRFAIQDISVEEMTAKEGLLLWCQRKTAPYKNVNVQNFHLSWKDGLAFCALIHR
HRPDLIDYGKLRKDNPMDNFNLAFDVAEKHLNIPRMLDAEDVVYTAKPDERAIMTYVSWY
YHAFHGAQQAETAANRICKVLKVNQDNERLMEEYERLASDLLEWIRRTTPWLENRTTDNT
LPGTQKKLEEFRSYRRQHKPPRVEQKANLETNFNTLQTKLRLSKRPAYMPSEGKMVSDIT
GAWKGLESAEKGFEEWLLSEMMRLERLDHLAQKFKHKADIHEEWTQGKEEMLVSHDFRQC
KLNEIKALKKKHEAFESDLAAHQDRVEQIAAIAQELNALGYHDIASINARCQRICDQWDR
LGTLTTRRRQALDEAEQILEKVDLFHLEFAKRAAPFNNWLDETREDLVDMFIVHSIEEIQ
QLIDAHESFKNTLGEADKEYKTIVGLAQEVQPMATQYQIPGGLENPYTTLTPEVITTKWR
DVKQLVPQRDHTLQTELIRQQCNENLRRQFAEKANVVGPWIERQMDAVTAIGMGMQGTLE
DQLQRLHEYDQAVVQYRPHVDDLEKIHQEVQEAMIFENRYTQYTMETLRVGWEQLLTSIH
RNINEVENQILTRDSKGITQEQLNEFRTSFNHFDKKRTGRLAPEEFKSCLVSLGYNIRND
DRPEFRRILAIVDPNKTGYVHFDAFLDFMTREYTDTDTAEQMIDSFRILAGDKPYITADE
LRRELPPDQAEYCIRRMTPYNGQCAVPGALDYRSFSTALYGESDL

>NP_001003242.2 epididymal secretory protein E1 precursor [Canis lupus familiaris]
MRLLVAAFLLLALGASALAEPVHFKDCGSAVGVIKELNVNPCPAQPCKLHKGQSYSVNVT
FTSNIPSQSSKAVVHGIVLGVAVPFPIPEADGCKSGINCPIQKDKTYSYLNKLPVKNEYP
SIKLVVQWMLLGDNNQHLFCWEIPVQIEG

>NP_001005208.1 serum albumin precursor [Sus scrofa]
MKWVTFISLLFLFSSAYSRGVFRRDTYKSEIAHRFKDLGEQYFKGLVLIAFSQHLQQCPY
EEHVKLVREVTEFAKTCVADESAENCDKSIHTLFGDKLCAIPSLREHYGDLADCCEKEEP
ERNECFLQHKNDNPDIPKLKPDPVALCADFQEDEQKFWGKYLYEIARRHPYFYAPELLYY
AIIYKDVFSECCQAADKAACLLPKIEHLREKVLTSAAKQRLKCASIQKFGERAFKAWSLA
RLSQRFPKADFTEISKIVTDLAKVHKECCHGDLLECADDRADLAKYICENQDTISTKLKE
CCDKPLLEKSHCIAEAKRDELPADLNPLEHDFVEDKEVCKNYKEAKHVFLGTFLYEYSRR
HPDYSVSLLLRIAKIYEATLEDCCAKEDPPACYATVFDKFQPLVDEPKNLIKQNCELFEK
LGEYGFQNALIVRYTKKVPQVSTPTLVEVARKLGLVGSRCCKRPEEERLSCAEDYLSLVL
NRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALTPDETYKPKEFVEGTFTFHADLCTLP
EDEKQIKKQTALVELLKHKPHATEEQLRTVLGNFAAFVQKCCAAPDHEACFAVEGPKFVI
EIRGILA

>NP_001036878.1 27 kDa glycoprotein precursor [Bombyx mori]
MMWKTVLITIFAAGVLADDFSQITAVVTSQCTKNNAEDKVPEVEAALRTFGNCLKGLVDL
NVLKTEIEEAKPNGALDEVFKKYCDKSAQLKGCISSVLQGVRPCVGNEYANHINDAQNST
NQLIDFVCYKDGDRIALFIAEGGPECFQQKTENLKTCFLNLKQSFPTVESANNLSLVEKC
AKVDEMTSCIVKSLEECSTPTPANMAESLIKFMRKDSPCHTALPKTD

>NP_001037083.1 thiol peroxiredoxin [Bombyx mori]

MPLQMTKPAPQFKATAVVNGEFKDISLSDYKGKYVVLFFYPLDFTFVCPTEIIAFSEKAD
EFRKIGCEVLGASTDSHFTHLAWINTPRKQGGLGPMNIPLISDKSHRISRDYGVLDEETG
IPFRGLFIIDDKQNLRQITINDLPVGRSVEETLRLVQAFQFTDKHGEVCPANWRPGAKTI
KPDTKAAQEYFGDAN

>NP_001316123.1 non-specific lipid-transfer protein precursor [Solanum lycopersicum]
MKAIAILVLVVLAVFQLAMVARGAITCGQVDANLAPCVPFLTQGGEPGAACCSGVRTLNG
NTQSSDDRRTACNCVKAAANRYPNLKDDAAQSLPSKCGISLTVPISRTVNCDTIS

>P13080.1 Probable maltase [Aedes aegypti]
MKIFVPLLSFLLAGLTTGLDWWEHGNFYQVYPRSFKDSDGDGIGDLDGVTEKLKYLKDIG
MDGVWLSPIFSSPMADFGYDISNFREIQTEYGDLDAFQRLSDKCKQLGLHLILDFVPNHT
SDQHEYFKKSVQKDETYKDFYVWHPGVHGPNNTKVPPSNWISVFRGSSWEWNEERQEFYL
HQFLKEQPDLNYRNPAVVEEMKNVLRYWLDRGVSGFRIDAVPYLFESDIIDGRYRNEPES
RTTDDPENPAYLVHTQTMDQPETYDMIYQWRAVLDEYSKTDNRTRIMMTEGYTSLPKIIE
FFGNATANGAQIPFNFEVISNVKKNSTGADFATYVKRWLDAKPANRRSNWVLGNHDNNRL
GSRLGENKIDLYNIALQTLPDIAVTYYGEEIGMLDQWIPWNETVDPAACRSDEASYSAYS
RDPARTPMQWDSGKNAGFSKAAKTWLPVADNYKTLNVKIQDRARKSHLKIFKKLTKYRKR
QILTEGDIDIKVSGENLLVYKRKVDKVGYVVVALNFGTEPVALGLSSLFDRADQRMQVVV
SSNRVSTPDNVWVDVDNYVLIGESGIVLQYLWGKNPIVS

>P29022.1 Endochitinase A; Seed chitinase A [Zea mays]
MANAPRILALGLLALLCAAAGPAAAQNCGCQPNFCCSKFGYCGTTDAYCGDGCQSGPCRS
GGGGGGGGGGGGGGSGGANVANVVTDAFFNGIKNQAGSGCEGKNFYTRSAFLSAVNAYPG
FAHGGTEVEGKREIAAFFAHVTHETGHFCYISEINKSNAYCDASNRQWPCAAGQKYYGRG
PLQISWNYNYGPAGRDIGFNGLADPNRVAQDAVIAFKTALWFWMNNVHGVMPQGFGATIR
AINGALECNGNNPAQMNARVGYYKQYCQQLRVDPGPNLIC

>Q75GX9.1 63 kDa globulin-like protein; Ory s GLP63 [Oryza sativa Japonica Group]
MATRARATILLLLAAVLFAAAAAASGEDRRRETSLRRCLQRCEQDRPPYERARCVQECKD
QQQQQQERRREHGGHDDDRRDRDRRGEGSSEEEDEGRERGSRRRPYVFGRRSFRQVVRSD
QGSVRLLPPFHQASSLLRGIKNYRVAVLEANPRSFVMPTHTDAHCICYVAQGEGVVAIIE
NGEKWSYAIRQGDVFVAPAGTINYLANTDGRRKLIVTKILHTISVPGQIQFFFAPGGRNP
ESFLSSFSKGVQRAAFKISEEKLEKLLGKQDKGVIIRASEEQVRELRRHASEGGHGPHWP
LPPFGESSRGPFNILEQRPRFANRHGRLYEADARSFHDLAEHDIRVAVVNITAGSMNAPF
YNTRSVKVAYVLDGEGEAEIVCPHLSRGGRGGESEERRRERGKGKWREEEEEEEQQKGQ
EEEEEEQVGQGYETIRARLSRGTVFVVPSGHPIVVTSSRDSTLQIVCFDVHANNNERMYL
AGMNSVLKKLDPQAKELAFAASAREVDELLNAQQESAFLAGPEKSGRRGEESEDEDRRRR
RSHRGRGDEAVETLLRMAAAAV

>Q7X7E6.1 17kDa alpha-amylase/trypsin inhibitor 1; Allergen=Ory s 17kD [Oryza sativa Japonica Group]
MASASDKLVLSAIVLAVLAAVVAAASGYGDVGEYCRVGKAVSRNPVPSCRNYIARWCAAA
GGRMDSRKQPPREFLEPCCRELAAVPMQCRCDALSVLVRGVVTEEGDRVSGMISQHAAPG
CDAATIAGMASALTDYGRCNLQHTAGSFACLMFGGGMD

>Q7X8H9.1 17kDa alpha-amylase/trypsin inhibitor 2; Ory s 17kD [Oryza sativa Japonica Group]
MALASDKFVLSAIVLAVLTVAAAAAGYGGYGDVGEYCRVGKAVSRNPVPSCRNYIARWCA
VAGGRLDSGKQPPRQLLEPCCRELAAVPMQCRCDALSVLVRGVVTEEGDRVAGMISQHAA
PGCDAATIAGMASALTDYGRCNLQHTGFFGCPMFGGGMD

>Q852L2.2 Cupincin; 52 kDa globulin-like protein; Ory s NRA [Oryza sativa Japonica Group]
MAKKKTSSSMARSQLAALLISLCFLSLASNAVGWSRRGEREEEDERRRHGGEGGRPYHLG
EESFRHWTRTRHGRFSVLERFPDEQVVGAAVGGYRVAVLEAAPRAFLQPSHYDADEVFYV

KEGEGVIVLLREGRRESFCVREGDAMVIPAGAIVYSANTHSSKWFRVVMLLNPVSTPGHF
EEYFPVGGDRPESFFSAFSDDVLQAAFNTRREELEKVFERQREGGEITTAPEEQIRELSK
SCSRGGGGGSGSEWEIKPSSLTGKSPYFSNNHGKLFELTGDECRHLKKLDLQIGLANITR
GSMIAPNYNTRATKLAVVLQGSGYFEMACPHVSGGGSSERRERERERHGRRREEEQGEEEH
GERGEKARRYHKVRAQVREESVIVIPASHPATIVASEGESLAVVCFFVGANHDEKVFLAG
RNSPLRQLDDPAKKLVFGGSAAREADRVLAAQPEQILLRGPHGRGSVSDM

>Q9DG84.1 Snake venom serine protease serpentokallikrein-2 [Protobothrops mucrosquamatus]
MVLIRVLANLLILQLSYAQKSSELVIGGDECNINEHPFLVLVYYDDYQCGGTLINEEWVL
TAAHCNGENMEIYLGMHSKKVPNKDRRRRVPKEKFFCDSSKNYTKWNKDIMLIRLNRPVR
KSAHIAPLSLPSSPPSVGSVCRIMGWGTISPTKVTLPDVPRCANINLLDYEVCRAVYPEL
PATSRTLCAGILEGGKDSCGGDSGGPLICNGQFQGIVSWGGDPCAQPHEPGLYTNVFDHL
DWIKGIIAGNTDVTCPL

>Q9YGJ8.2 Venom plasminogen activator Haly-PA [Gloydius brevicaudus]
MALIRVLANLLILQLSYAQKSSELVVGGDECNINEHRSLVVLFNSSGLICSGTLINQEWV
LTAAHCDSKNFQMLFGVHSKKILNEDEQTRDPKEKFICPNKKKDDEKDKDIMLIRLDSPV
SNSEHIAPLSLPSSSPTVDSVCRIMGWGTIKPADETYPDVPHCANINILDHTVCRAAYPV
LLAGSSTLCAGTQQGGKDTCVGDSGGPLICNGQIQGIVSWGAHPCGQGSKPGVYTKVFDH
LDWIKSIIAGNTAVTCPP

>SHD75397.1 RNA dependent RNA polymerase [Sarcoptes scabiei]
MSARSAKFMYRSGNAGASGDLSVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSESVVEMNKKRDSELAKLRKLLEDVHLESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDKEKQKFQAEVFELLAQLETANKEKLTAMKTVEKLEYTV
HELNIKIEEINRTVIELTSQKTRLSQENTELIKEVHEHKMQLDNANHLKQQLAQQLEDTK
HRLEEEERKRASLENHAHTLEVELESLKVQLDEESEARLELERQLTKANGDAASWKSKYE
AELQAHADEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
THAQQLEKRVAQLEKLNLDLKNKLEEVTMLMEQAQKEARAKAAELQKLQHEYEKLRDQRD
ALARENKKLTDDLAECKVFRHHDAHRRSTNRRSKSNDWRTREKSYLLPTKKRKPYANKRR
LRINDLPSWLKYDTITRNVWHRKRKKSKHLENNIKSRSNSLICDLKLKLNKPRSHDRRNI
KLKSLNWNCHWMLPIKPILIYRKQSKNKPYKLRSFKHTMMRRQSNHCTGSSIGSHPKTMP
SVTSRAGRAKNRFGTSESCQTTSRTIAGSCRKSTYHHQCSCFSKQIGIGIRCSTKRLRSP
QRTQNFTSTETYHAQIYQGLISGGTGTISENGDRKEIFGARSSYPTCPYRRGRSQCFGWR
TCHCTGEQNSCDRSGRGTKTTRDGKNAKKRSSTQGIVGAKRGGPQTNPIASRNGRQNERK
GQSLTTNARTGGNEPTKSDSCSTLPTIGSCRSSGSSIKSIVHPCQTPF

>XP_015646887.1 PREDICTED: casein kinase II subunit alpha [Oryza sativa Japonica Group]
MSKARVYTDVNVLRPKEYWDYEALTVQWGEQDDYEVVRKVGRGKYSEVFEGINVNNNEKC
IIKILKPVKKKKIKREIKILQNLCGGPNIVKLLDIVRDQHSKTPSLIFEYVNNTDFKVLY
PTLTDYDIRYYIYELLKALDYCHSQGIMHRDVKPHNVMIDHELRKLRLIDWGLAEFYHPG
KEYNVRVASRYFKGPELLVDLQDYDYSLDMWSLGCMFAGMIFRKEPFFYGHDNHDQLVKI
AKVLGTDSLNSYLNKYRIELDPQLEALVGRHSRKPWSKFINADNQHLVSPEAIDFLDKLL
RYDHQDRLTAREAMAHPYFLQVRAAENSRPRAQ

>AHA56102.1 Amb a 11 cysteine protease [Ambrosia artemisiifolia]
MEINKLVCFSFSLVLILGLVESFHYHERELESEEGFMGMYDRWREQHNIEMRSPERFNVF
KYNVRRIHESNKMDKPYKLKVNEFADMTNLEFVNTYANSKISHFQALRGSAPGSIDTDPN
KDFIYANVTKIPDKVDWREKNAVTDVKGQGGCGSCWAFAAVVALEGINAIRTGKLVKFSE
QQLVDCDMTNAGCDGGLMEPAFTYVIKHGGIAPEASYPYVGKRETCDKAKIKDVLKIDGR
QNVPGLDEEALRKAVAHQPVATGIQLSGHGLQFYSEGVYTGDCGTEPNHGVGIVGYGENE
KGIKFWTVKNSWGPTWGEKGYIHLQRGARKEGLCGVAMHSSFPIMNDPNPPKDDPNGPKD
DPDAPKDPKFKTTQRLQGIRTKLLEL

>5X7Y_A Lipocalin, putative Can f 6, Chain A [Canis lupus familiaris]
GSHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVKDIEVLSNSSLIF

TMHTKVNGKCTKISLICNKTEKDGEYDVVHDGYNLFRIIETAYEDYIIFHLNNVNQEQE
FQLMELYGRKPDVSPKVKEKFVRYCQGMEIPKENILDLTQVDRCLQARQSEAAQVSSAE

>COMPARE008 Putative Ara h 15.0101 [Arachis hypogaea]
MSDQTRTGYGGGGSYGSSYGGGGTYGSSYGTSYDPSTNQPIGAGHHHHHHGAGGKHPAGS
DRLDYAKGVIADKARDVKDRAKDYAGAGRAQEGTPGY

>AAV83993.1 Arginine kinase Putative Pen c 2 [Penaeus chinensis]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLTKAVFDQLKDKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVTSFVNVDPEGKYV
ISTRVRCGRSMEGYPFNPCLTEDQYKEMESKVSSTLSSLEGELKGTYYPLTGMGKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPSGRGIYHNDNKTFLVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANRDKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>COMPARE001 Bla g 9.0101 arginine kinase [Blattella germanica]
VDAAVLEKLEAGFAKLAASDSKSLLKKYLTKEVFDNLKTKKTPTFGSTLLDVIQSGLENH
DSGVGIYAPDAEAYTVFADLFDPIIEDYHGGFKKTDKHPPKDWGDVDTLGNLDPAGEYII
STRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEGELKGQFYPLTGMTKEVQQKL
IDDHFLFKEGDRFLQHANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLGQ
VYRRLVTAVNDIEKRVPFSHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKKKLEEVA
GKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKIESSL

>ABV55108.1 Catalase 2 [Musa acuminata AAA Group]
MDPYKFRPSSSFDTNFTTTNAGAPVWNDDQALTVGSRGPILLEDYHLVEKIAHFARERIP
ERVVHARGASAKGFFECTHDVTHLTCADFLRAPGVQTPIILRFSTVIHERGSPETIRDPR
GFAVKFYTREGNWDLLGNNFPVFFIRDGIKFPDVIHAFKPNPKSHVQEYWRVFDFLSHHP
ESLHTFFFLFDDVGVPSDYRHMEGFGVNTYTFVSKEGKVNYVKFHWKPTCGVKCLLEDEA
IVVGGKNHSHATQDLYDSIAAGNYPEWKLFVQVMDPDTEDRYDFDPLDDTKTWPEDLLPL
QPVGRLVLNRNIDNFFSENEQLAFGPGLVVPGIYYSDDKMLQCRVFAYGDTQRYRLGPNY
LTLPVNAPKCAHHNNHYDGLMNVMHRDEEVDYFPSRHASLRHAERFPIPNRVVTGKREKN
VIPKQNDFKQPGERYRSWAPDRQERFVRRWAEQLAHPKVSYELRSIWISFLSKCDTSLGQ
KVANRLNMRANI

>ACV85695.1 Cari p 1.0101 polygalacturonase 2 [Carica papaya]
MAVLYYDNYNRTHLLILSFSILFFSFSSRLVNSGFHGERRRERVHGYHYDELNNFSEDQE
GGLTLLSGAGYDPEAHPSFLSSINGDRDEEFTEAEPSVLSFKGIEDLRSAKPRSVIFNVD
DFGAEGDGIHDDTQQVFEEAWEKACSYKGPALFLVPERRTYLIGPIRFLGPCKSNLVIQV
QISGTILASDNRSDYRKDPRHWIVIDSVDNLLVEGGGTIHGNGQIWWRNSCKAPCKEAPT
VTFYKCKNLMVRNVKVQDAQQMQVSFEKCSEVTASDLTVTAPEKSPNTDGIHVTNTQNIL
ITNTFIGGDDCISIESGSHNVQIEELTCGPGHGINVDSLGDNNSKAFVSFVTVNGAKLSG
TTNGVRIKTYQGGSGSASNIKFQNVDMENVKNPIIIDQNYCDQKKPCKKQQKSAVQVKDV
LYQNIQGNSASDVAIDFDCSENYPCLGVKLQNVRLQRADRVDEEAKAICNHVELTETGVV
FPRCPDYHLKHDEL

>AHY24648.2 Putative Can f 4 variant allergen precursor, partial [Canis familiaris]
MKILLLCLALVLASDAQLPLPNVLTQVSGPWKTLYVSSNNLDKIGENGPFRIYLRGINV
DIPRLKMLFNFYVKVDGECVENSVGASIGRDNLIKGEYNGGNYFRIIDMTPNALIGYDV
NVDSKGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIIYLGDTDNCPNHE

>COMPARE013 Der f 31 cofilin [Dermatophagoides farinae]
MASGVIVATEAKTLYEEVKKDKKYRYIIYHIKDERVIEVETTGPRDATYSDFVARLQDYK
NECRYCVFDFPANIPVEGGGEKSNMSVDRLVLMTWCPESAKIKQKMLYSSSYDALKKALV
GVYRYVQACDYEEASEEAIAEAFRKGG

>AIV43661.1 Koc s 2.0101 profilin, partial [Bassia scoparia]
MSWQTYVDDHLMCDIEGTTNHLTGAAILGVDGSVWAQSANFPQFKPDEIAAIVKEFDEP

GTLAPTGLHLGGTKYMVIQGEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTPGQCN
MIVERLGDYLVEQGM

>AIV43662.1 Aca f 2 profilin, partial [Vachellia farnesiana]
MCWQTYVDDHLMCEIEGTNNHLSGAAILGVDGSVWAQSASFPQFKPDEIAAVVKDFDGP
GTLAPTGLHLGGTKYMVIQGEPGRFIRGKKGPGGICVKKTGQALVFGIYDEPVTPGQCN
MIVERLGDYLVEQGM

>COMPARE009 Putative Der p 23 [Dermatophagoides pteronyssinus]
MKFNIIIVFISLAILVHSSYAANDNDDDPTTTVHPTTTEQPDDKFECPSRFGYFADPKDP
HKRYICSNWEAVHKDCPGNTRWNEDEETCT

>ANW82807.1 Venom allergen antigen 5, partial Putative Poly p 5 [Polybia paulista]
NKYCNIKCSKVAHTVCQYGESTKPSSKCNKVSITSVGVTEEEKKLIVDEHNRFRQKVAQG
LETRGNPGPQPAASDMNNLVWNDELAYIAQVWASQCQFFVHDKCRNTAQYQVGQNIAYSA
STAAYPGIVSLIVLWENEVKDFNYSQGITKENFSKVGHYTQVVWAKTKEVGCGSIKYIEK
GMKSHYLVCNYGPAGNYMGQPIYTKK

>AAP35068.1 Putative Der f 5 [Dermatophagoides farinae]
MKFIIAIAVCTLAVVCVSGEPKKHDYQNEFDFLLMQRIHDQMRKGEEALLHLHQINTFEE
NPTKEMKEQILASEMDTIIALIDGVRGVLNRLMKRTDLDIFERYNVEIALKSNEILERDL
KKEEQRVKKIEV

>AAX34057.1 Putative Tyr p 5 [Tyrophagus putrescentiae]
MKFAILALAFLGAVMAQGGPKVPAKGDFRNEFDHLLVSTLMEGMYKGEQHLLRLSEEIAH
LESTKTKVEQDRIVREIEVTVAFIEGGVRVVEQELKRTDLNILERFNFEEVQALSKLLVK
DLKEAEVKVKAVKTR

>AAX34059.1 Putative Tyr p 21 [Tyrophagus putrescentiae]
MKFVIALAALLAVACAAPTPKPARPTPAKGDFRNEFDHLIVAAAVQRFHDLEEFLLKLSE
QVADLEKTKNREEKAKILREITIADGLVVGGRTYFEKELKRTDLDLVEKFNFEAVLATIG
ILDRDLKALATRVNAIKV

>AAV39514.1 0.19 family dimeric alpha-amylase inhibitor [Triticum aestivum]
SGPWMCYPGQAFQVPALPACRPLLRLQCNGSQVPEAVLRDCCQQLAHISEWCRCGALYSM
LDSMYKEHGAQEGQAGTGAFPRCRREVVKLTAASITAVCRLPIVVDASGDGAYVCKDVAA
YPDA

>Q4W1F6 Thioredoxin [Zea mays]
MASEQGVVIACHSKAEFDAHMTKAQEAGKLVVIDFTAAWCGPCRAIAPLFVEHAKKFTQV
VFLKVDVDEVKEVTAAYEVEAMPTFHFVKNGKTVATIVGAKKDELLALIEKHAAPAPASA
SA

>Q4W1F8 Expansin EXPB11 protein [Triticum aestivum]
MASSSIAVAAALILCILVAHAHGCYAKHHAAPSATNSSWLDAKATWYGPPHGAGPDDNGG
ACGFKNVNLPPFSSMTSCGNQPLFKDGKGCGSCYQIRCLKSDHPACSGVPKTVIITDMNY
YPVSRYHFDLSGTAFGAMAKDGRNDELRHAGMINMQFKRVPCQYPGLTVTFHVEEGSNPF
YMAILVEYENGDGDVNQLDIMESRPNGGKMAPTGQWVPMKESWGSIWRMDAHHPMKAPFS
LRITNESGKTLVAEQVIPIDWKPNKTYSSLVQFH

>Q4W1G2 Chromatin asssociated protein [Triticum aestivum]
ANGDTAFKASGKNKTATGGVAKPKRAPTPFFAFLAEFRPQYMEKHPEAKGVAAVTKAAGE
KWRSMSDEEKAKYGGKKADAPASKAVNKKESTSSKKAKTGSDVEDDGEEDEE

>ARQ16437.1 Art an 7.0101 galactose oxidase [Artemisia annua]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPEIDDGGGDKPVPGNNDGASDYAKP

AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDAN
NQPDCYAHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPKGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPFM
QQTTEPPLGPGRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELTPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFSP
PYLDPALETERTQIDPANTDAVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVQNGVITAVAPPSGQIAPPGYYIMFVSHLGIPGAGIWVHID

>ARQ16438.1 Galactose oxidase [Artemisia argyi]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNNPDAN
NQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPGRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFSP
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGIWVHID

>ARQ16439.1 Galactose oxidase [Artemisia capillaris]
MASSIKTAILFLLPLLLAYSVLAAPDITDGGDKPGPLIDDGGGDKPVPGNNDGASDYAKP
AIEPEFMGEWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDAN
NQPDCYAHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSAVVLGGRDSYSYEIVPPQMEFKPKRFDLPFL
QQTTEPPLGPGRPVENNLYPFQFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVVPEIVICGGNQPNAYELVDARHVTEKKFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLLHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFSP
PYLDPALEPERTLIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITGVENGVITAVAPPSGEIAPPGYYIMFVSHLGIPGAGIWVHID

>ARQ16440.1 Galactose oxidase [Artemisia gmelinii]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPEIDDGGGDKPVPGNNDGASDYAKP
AIEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGPSGYKLPEGTPCPINPDAN
NQPDCYAHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPKGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPFM
QQTTEPPLGPGRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELTPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFSP
PYLDPALETERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAVAPPSGQIAPPGYYIMFVSHLGIPGAGIWVHID

>ARQ16441.1 Galactose oxidase [Artemisia lavandulifolia]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNNPDAN
NQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPGRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFSP
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYILFVSHLGIPGAGIWVHID

>ARQ16442.1 Galactose oxidase [Artemisia sieversiana]
MASSIKTVILFLLPLLLAYSILAAPDITDGAGDKPGPQVDDGGGDKPVPGNNDGASDYAK
PAIESEFMGQWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDA
NNQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIPN
DDPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPF
MQQTTEPPLGPGRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGS
RNYPPSGSAALFPLKLTADNAPVVPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNR
IKPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEPNLTPVLYT
PYKPMGQRFKELRPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFS
PPYLDPALELERSQIDPANTDVVLKYGKPFKITAGLMEKQPLVLGEVKVTLLYPPFTTHG
FSQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGIWVHID

>ARQ16443.1 Galactose oxidase [Artemisia vulgaris]
MASSIKTVVLFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNNPDAN
NQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPGRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELRVEKFSP
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFLSHLGIPGAGIWVHID

>ATI08931.1 Der f 36 [Dermatophagoides farinae]
MKFYNILTVATIVILVAFFDNVHADSQAQEQCRQLHHVDIDPSGTKFLNNNCRLNCNIHG
QIYGHNINEGRTCMIGQTNYVCQNGECVGHNRQHVGHIDIELISASLYEKANAYATVCIM
NNSLPISLPIQDRRNCISCSTHVKENTNYPVWNEVCVGSSNYLFVSDSRVTTEVWDHHGS
NNNVFLGGVTLTIDQLVNHGDNHRQINLAMAGGHNPGQLSTRITWTQRT

>ATI08932.1 Der p 36 [Dermatophagoides pteronyssinus]
MKFYNVLTITIGVILLSVFDNVQADTVAQEQCRQLHHVDVDPSGTQFLNNNCLLDCNIHG
KIYSHNMNEGRTCMVGRTNYVCRNGQCVGNNQHVGHVDIELISASLYEKANAYASVCIKN
NSMPISLPIQDRRDCITCSTQVRSNTNNPIWNEVCTGSGNYLLVSDSRVAIEVWNHLGTS
NNIFLGGVSLTIDQLVNHGDNHRAINLAMAGNKPGQLTTRITWTQRN

>AUH28179.1 Pollen allergen, Putative Que m 1 [Quercus mongolica]
MGVVAYESEDASVIPPARLFKAFVLDSDNLIPKVVPQALKSTEIIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTFSFSVIEGDALFDKLENVSTETKIVASPDGGSIVKSTCK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDGYY

>AUW37958.1 Per a 5.0101 glutathione S transferase class delta
[Periplaneta americana]
MTIDFYYLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPQHTIPTLNDN
GFCLWESRAILSYLADQYGKDDSLYPKDAKKRALVDQRLYFDIRTLYHRFGEYYYPIYFA
KQAADPEKMKKLEEAFEFLNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGCLKFKEMCDNLAKK

>BBD75204.1 Apolipophorin Putative Der f 14 [Dermatophagoides farinae]
MRLFALLFTACLLGLGQAQHCTVACPNSIPQLINPKAQSTYVYTLDAKTVLTPRDSQKVT
IKADAEVAIVSACEAVLRLQNVAIDGVPNGAELASELASKSFAFGYFNGRILGVCPANDD
QDWSLNIKKAIVSALQVQFDENKDKVEESDFSGRCPTEYRKIRNEDNMVVMEKRKDLNLC
DDRRIDLRQTPDQALGQLKEMIRHYMHPMGSDLSCRMTLKDQVVSEVDCEERHVLVHRSH
KPVHLSYVKMMLKESKDGVAADLGQTDSEPKRPYLSFDHKHKNPTETDVVEVLKKLCSEI
SEPQASIETSFTFQKLVDKLRYLSAEETASVDESVKTSVCPAHAYRIRELFLDASAFAAS
DGSIRTLVKAHENQELSITRSTALFTVVAMKAAPNKETVQVLLPVIASEKTIRPMLLGFS
VLVRRYCEKSADCASNSGVKDARDAYLARLATAKDANERITIVRALENLNVNTEGVDNMI
NAMDEIIKSDAEPALRAAAVNALSNDASHMDRYKSLVMDESMPNEARIAAFQKMMKNGGM

SHIKDLFTVKGECMKNYVLTYVDNLKKSKNDLRRQTVSGDVELPEQPKREIGITRNIARE
YGPYTFEYDVIYPETHENVTRSINGRLIRAKNDQLKEIVEIQITQNGFERELTNAMALME
KKSFQSIMQFVRDTLKMLAQIRKNADDNHHMKITVQINGKDVYYTDVFQDLKKMKELIIK
RAEKIINEKKVDRSIGGVLLDSKLVLPTITGLPLMYKFGDNFLIRYDGEFSGEKGDRHIK
LNGGFVAGVYGQMKLLVKDQKMGYEYDGKLAYTPILDMDIQKKEHSLLLRFNTKDVERRT
IMRFKQSLREKRATGEEKDYENEITPESRSDQCFSFFLLDYCRKASHIKGLIFPNVEYYV
VKPEKEVTALELLLKGETEDKTRRYVAELTAVGSPSNKQAKAQIEVTKGEEYKITLKSPE
HEFNTEFTIHADKNNLKMHMDFPNVFQADLTGTFQHDKENNVRKNQLNLQYKFAGDEKPH
TVDYENEFSFNLKRSSKDKNSGVDYRAKYMSSHFPILNHKVNIQFKYRPFKVNELNLEGE
FGRELQHKFQLMRNSQIEVEEVRPFKMHGNSDIKLMANDLDIDYDLKSEFKYESNKGTPI
ELQYKISGKDRSKRAADLGAEDVEGVIDYKNNGSPIDSKMHAHLKMKGNNYGYDSELKQT
QPQQYEGKITLSKNDKKIFINHKSEMTKPTNTFHLKTDADVSYSDSDMKKHYQMEFKKEN
DIYTMRSTVERNGQMFYENHLTIHKGGKLNLNYRRNDRKILLDLDNALSPREGTMKLNIK
DREYNFVMKREPLRFRDITVEGNENAYIKNGKLHLSLMDPSTLSLVTKADGKIDMTVDLI
SPVTKRASLKIDSKKYNLFHEGELSASIVNPRLSWHQYTKRDSREYKSDVELSLRSSDIA
LKITMPDYNSKIHYSRQGDQINMDIDGTLIEGHAQGTIREGKIHIKGRQTDFEIESNYRY
EDGKLIIEPVKSENGKLEGVLSRKVPSHLTLETPRVKMNMKYDRYAPVKVFKLDYDGIHF
EKHTDIEYEPGVRYKIIGNGKLKDDGRHYSIDVQGIPRKAFNLDADLMDFKLKVSKPEDS
NKAQFSYTFNEYTETEEYEFDPHRAYYVNWLSSIRKYIQNFIVEDN

>BBE74942.1 Putative Cry j 4 [Cryptomeria japonica]
MTATAMTTAALRLLIALLLVAAPAECLPLRARGRWIVDEATGLRVKLACVNWPGHLEPGL
PEGLNRLPVTTIAHTISSLGFNCVRLTYSIQMVTEKSYTEATVGQTFAQLNLTEPASGIE
GNNPGFLQLGHVAAYDSIVAALAEAGVMVILDNHVSKPKWCCAVDDGNGFFGDSYFDPRL
WQRGLGLMATHFNNTPNVVAMSLRNELRGNRSTSARWSKYMQRGAATVHEANPNVLVVLS
GLHFDTILSFLPVLPVTLPFKEKIVYEGHWYSFGVPWHDGLPNDICLNETSRFKDNIGFL
TSSINGTAAPLFVSEFGIDQRYVNDNDNRYLNCILAFLAEEDVDWALWTMGGSYNYRSDK
EPVQDFEETYGFFNRDWSRIRNPDFISRLKEIQQPIQDPYLSPGPYYQIIYHPASGLCVE
SSIGNTIHLGSCQSVRSRWNYDASVEGPIGLMGSSSCISTQGNGLPAIMTEKCSAPNNTL
WSTVSSGQLQLGTRVFDEDGKEKWMCLDGSRSPLITTTECICITDSHCYPNQNPEKQWFK
VITTNKQLLHQL

>COMPARE010 Cha o 3 Glycosyl hydrolase 5 family [Chamaecyparis obtusa]
MTSAGVAPTALRLLTALLLLLVAAPSHSLPLLTRGRWIVDEATGLRVKLACVNWVGHLEP
GLPEGLNRLPVATVAHTISSLGFNCVRLTYSIHMLTRTSYTNATVAQTFARLNLTEAASG
IEHNNPELLDLGHVAAYHHVVAALSEAGVMVILDNHYSKPKWCCAVDDGNGFFGDRYFNP
NTWVEGLGLMATYFNNTPNVVAMSLRNELRGNRSTPISWSRHMQWGAATVHKANPKVLVI
LSGLQFDTDLSFLPVLPVTLPFKEKIVYEGHWYSFGVPWRTGLPNDVCKNETGRFLSNVG
FVTSSANATAAPLFMSEFGIDQRYVNDNDNRYLNCILAYLARRDLDWALWTMGGSYYYRS
DKQPVKDFEETYGFFNHDWSRIRNPFFISRLKEIQQPIQDPYLAPGPYYQIIYHPASGLC
VESGIGNTVHLGSCQSVRSRWNYDASVKGPIGLMGSSSCISTQGNGLPAIMTENCSAPNN
TLWSTVSSAQLQLGTRVLGKDGKEKWMCLDGSKSPLISTNECICITDSHCYPKLNPEKQW
FKVITTNKQLLHQLQL

>SHD75396.1 Tropomyosin Putative Sar s 10 [Sarcoptes scabiei]
MYEAIKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRGLQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMDGLENQLKEARMMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKAQQREEAYEQQIRISTAKLKDAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFAELLAI

>COMPARE002 Protein of unknown function, partial [Sinapis alba]
SPDSDLEAFSHNPAHGSFAPLAFQPSAMTNCANQRFLSY

>COMPARE003 Protein of unknown function, partial [Sinapis alba]
ITLKVVVFHLRRSSHLFYTSQVISQSRTRVKLNRVFFPR

>COMPARE004 Protein of unknown function, partial [Sinapis alba]

IKARLRNRSPRRCRKTVA

>COMPARE005 Protein of unknown function, partial [Sinapis alba]
GKETNKDSLSNGERTGKSPA

>P02845 Vitellogenin-2, partial, YGP40 fragment [Gallus gallus]
AEAPSAVLENLKARCSVSYNKIKTFNEVKFNYSMPANCYHILVQDCSSELKFLVMMKSAG
EATNLKAINIKIGSHEIDMHPVNGQVKLLVDGAESPTANISLISAGASLWIHNENQGFAL
AAPGHGIDKLYFDGKTITIQVPLWMAGKTCGICGKYDAECEQEYRMPNGYLAKNAVSFGH
SWILEEAPCRGACKLHRSFVKLEKTVQLAGVDSKCYSTEPVLRCAKGCSATKTTPVTVGF
HCLPADSANSLTDKQMKYDQKSEDMQDTVDAHTTCSCENEECST

>Q647G8 Ara h 7.0301 2S Albumin [Arachis hypogaea]
MVKLSILVALLGALLVVASATRWDPDRGSRGLRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEQEQEQEQDEYPYSQRGSRGRRPGESDEDQEQRCCNELNRFQNNQRCMCQALQQIL
QNQSFRFQQDRSQLHQNGEGAQELAPELRVQVTKPLRP

>COMPARE014 Mes a 1 [Mesocricetus auratus]
HYQNLEVSPSEVDGKWYSLYIAADNKEKVSEGGPLRAYIKNVECIDECQTLKITFYTKVE
GVCQEHTIVGRKGEDGKYITDFSGQNYFHIVEKSDDTMTFHNVNVDDSGKTNVILVVGRG
ESSSIEQKQRFEKTAEEYDIPKENIEDLVPTDNCDQ

>COMPARE006 Putative Que m 1 [Quercus mongolica]
MGVVAYESEDASVIPPARLFKAFVLDSDNLIPKVVPQALKSTEIIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTFSFSVVFGDALFDKLENVSTETKIVASPDGGSIVKSTCK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDGYY

>ANW10058.1 Ras k 1 parvalbumin [Rastrelliger kanagurta]
MAFASVLKDAEITAALDGCKADGSFDHKKFFKACGLAGKSGDDVKKAFAIIDQDKSGFIE
EEELKLFLQNFKAGARTLSDAETKAFLKAGDTDGDGKIGVDEFAAMIKG

>COMPARE007 Putative Que a 1 [Quercus alba]
MGVFTYESEDASVIPPARLFKAFVLDSDNLIPKVVPQALKSTEIIEGNGGPGTIKKITF
GEGSHLKHAKHRIDVIDPENFTYSFSVIEGDALFDKLENVSTETKIVASPDGGSIVKST
SKYQTKGDFQLTDELIRGGKEKASEVFKAVEAYLVAHPDLYKP

>COMPARE011 Putative Mal f 7 [Malassezia furfur]
MNNEKYCSVADYDVKWFKERCQSHPTDVKTTKWIAGTDLKIEMDPKEPYELYCFNYYTTF
GNLPDAGAKELDDDATKKACSALKSGKYQSDPKKKSCRMDKKDIDQFKEQCSQYQPSDRP
PYGDWSAGTSLNVVLNLKKNA

>COMPARE012 Tropomyosin [anisakis pegreffii]
MDAIKKKMRKAMEIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDK
AQEDLSTANSNLEEKEKKYQEAEAEVAALNRRMTLLEEELERAEERLKLATDKLEEATHT
ADESERVRKVMENRSFQDEERANTYESQLKEAOMLAEEADRKYDEVARKLAMVEADLERA
EERAEAGENKIVELEEELRYDGNNLKSLEYSEEKALQREDSYEEQIRTVSARLKEAETRA
EFAERSVOKLOKEVDRLEDELVHEKERYKSISELDLLQELSGY

>XP_001732036 Protein of unknown function [Malassezia globosa CBS 7966]
MVSLNIFSAAFVASLASAVFAAPSALERRAAPDNTVWVTSVADHCLILPRHKMSVGDSES
PGNMRSFCTKPYSSKQGQLASDFWTKAHFKKTDKYVQITGCINPNVQSTLLSNDEGGQYD
SNGGEGGRGNPAGSVCLGYSSYVELVEPAGNRACIRCCYDPSDCDVSQDEAGCETVIPGK
YDC

>XP_015174445.1 Pol d 3.0101 venom dipeptidyl peptidase IV [Polistes dominula]
MISLRSFVFLNGFIFVLLTGRTVSYVLDKDNLDRVVFRTQDDSNFPKRPFQLEETYTADY
LPRNFNGTWTSDTTLIYISETVGEILQFDVVKQQSTVIIDVSIFDDYLVESYLLSPTGRF

LLIGYDLQKGFRYSTFMRYVIYDTELGQYDKIGNGMHIALVRWAPLTDDLIYILDNNIYY
KRFSKNGFNDVQRVTDDGIAGIIYNGVADWVYEEEVLHGSSAIWFSPDGKRLAYATFDDR
KVHEILYLHYGEPGSLGDQYPTEVKIKYPKAGTPNPVVSLTLVDLHDPTLNKINLEAPVD
IVGIDNVLTNVQWKDFNTIIATWSNRVQNETEIVWYNVYGETVETLHIEEPEGWVDIKNL
FFYNGSTYMRKLQQSGTKAGRFHHVTRYEKVGSTLIQKDLTPGAIEVQDIRAIDHFNGRI
YYLASGPGEPSQRNLYSVPADGSKEPTCISCNVITPEGNQCKYADVSFSPFRSYYALVCQ
GPDPTFIDIFDSNHRKIFSWEHNLMLRLRLTKRELPIVKDLYVHANGYDSKVRLLLPHNF
DESKSYPMLVNVYAGPNTAKINDAASYSYQSYMTTNRSVIYAYIDGRGSSNKGSNMLFEI
YRNLGTVEVEDQITVTRKLQEMYSWIDSKRTAIWGWSYGGFCTAMVLAKDVDSVFKCGIS
VAPVSSWIYYDSIYTERFMGLPTPEDNLKGYDGTDVSRRVEGIRGKKFMLIHGTGDDNVH
YQQSLALAKSLEESDILFEQITYTDEAHALYGVLPHLYHSMDRFWSECFSWSNTH

>XP_016648029.1 Pru m 7 dipeptidyl peptidase IV [Prunus mume]
MKLGFATFLLVCLLLSSSVFEVTMAGSSFCDSKCGVRCSKAGYQERCLKYCGICCEKCHC
VPSGTYGNKDECPCYRDLKNSKGNPKCP

>COMPARE172 Allergen Fag e 4; antimicrobial peptide, partial [Fagopyrum esculentum]
AQCGAQGGGATC

>AEG47274.1 Allergen Tri tu 14.0101; non-specific lipid transfer protein family 1 [Triticum turgidum]
MARSAVAQVVLVAVVAAMLLAVTEAAVSCGQVSSALSPCISYARGNGASPSAACCSGVRS
LASSARSTADKQAACKCIKSAAAGLNAGKAAGIPTKCGVSVPYAISSSVDCSKIR

>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]
LKVREDENNPFYFRSSNSFQTLFENQNGRIRLLQRFNKRSPQLENLRDYRIVQFQSKPNT
ILLPHHADADFLLFVLSGRAILTLVNNDDRDSYNLHPGDAQRIPAGTTYYLVNPHDHQNL
KIIKLAIPVNKPGRYDDFFLSSTQAQQSYLQGFSHNILETSFHSEFEEINRVLFGEEEEQ
RQQEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPFNLRSRNPIYSNNFGKFFEITPEK
NPQLRDLDIFLSSVDINEGALLLPHFNSKAIVILVINEGDANIELVGIKEQQQKQKQEEE
PLEVQRYRAELSEDDVFVIPAAYPFVVNATSNLNFLAFGINAENNQRNFLAGEKDNVVRQ
IERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQKEEGSKGRKGPFPSILGALY

>COMPARE103 Allergen Cor a 1; PR-10 protein [Corylus avellana]
GVFNYEAETTSVIPAAXLFKSYVLDGDKLLPKVAPQALTSVENVGGNXXP

>CBA35339.1 Allergen Onc m 1; beta parvalbumin [Oncorhynchus mykiss]
MACAHLCKEADIKTALEACKAADSFNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFLQNFCPKARVLTDAETKAFLKAGDADGDGMIGIDEFAVWVKQ

>CBA35340.1 Allergen Onc m 1; beta parvalbumin [Oncorhynchus mykiss]
MAFAGLNDADVAAALAACTAADSFNHKAFFAKVGLAGKSNDDVKKAFYVIDQDKSGFIEE
DELKLFLQNFSASARALTDAETKAFLADGDKDGDGMIGVDEFAAMIKG

>BAB55663.1 collagen alpha 2 chain [Oncorhynchus mykiss]
MLSFVDNRILLLLAVTSLLASCQSGGLKGPRGAKGPRGDRGPQGPNGRDGKAGLPGIAGP
PGPPGLGGNFAAQFDGGKGSDPGPGPMGLMGSRGPNGPPGAPGPQGFTGHAGEPGEPGQT
GSIGARGPTGSAGKPGEDGNNGRPGKPGDRGGPGTQGARGFPGTPGLPGMKGHRGYNGLD

GRKGESGTAGAKGETGAHGANGSPGPAGSRGLNGERGRAGPAGPAGARGADGSTGPAGPA
GPLGAAGPPGFPGAPGPKGEIGGAGSNGPSGPQGGRGEPGINGAVGPVGPVGNPGNNGIN
GAKGAAGLPGVAGAPGFPGPRGGPGPQGPQGSTGARGLGGDPGPSGQKGDSGAKGEPGHS
GVQGAAGPAGEEGKRGSTGEVGATGPAGLRGARGGAGTRGLPGLEGRGGPIGMPGARGAT
GPGGIRGAPGDAGRAGESGLTGARGLPGNSGQGGPPGKEGPPGAAGLDGRTGPPGPTGPR
GQPGNIGFPGPKGPGGEAGKGGDKGPTGATGLRGGPGADGNNGAPGPAGVVGNTGEKGEQ
GPAGAPGFQGLPGPAGPAGEAGKAGNQGMPGDQGLPGPAGVKGERGNSGPAGSAGSQGAI
GARGPAGTPGPDGGKGEPGSVGIVGAAGHQGPGGMPGERGAGGTPGPKGEKGEGGHRGLE
GNMGRDGARGGPGPSGPPGPSGANGEKGESGSFGPAGPAGLRGPSGERGEGGPAGLPGFA
GPPGSDGQSGPRGEKGPAGGKGDVGPAGPAGPSGQSGPSGASGPAGPPGGRGDAGPSGLT
GFPGAAGRVGGPGPAGIAGPPGSAGPAGKDGPRGLRGDPGPGGPQGEQGVVGPAGISGDK
GPSGESGPPGAPGTAGPQGVLGPSGFVGLPGSRGDKGLPGGPGAVGEPGRLGPAGASGPR
GPAGNIGMPGMTGTQGEAGREGNSGNDGPPGRPGAAGFKGDRGEPGSPGALGSSGQPGPN
GPAGSAGRPGNRGESGPTGNGGPVGAVGARGAPGPAGPRGEKGGAGEKGDRGMKGLRGHG
GLQGMPGPNGPSGETGSAGITGPAGPRGPAGPHGPPGKDGRAGGHGAIGPVGHRGSPGHL
GPAGPPGSPGLPGPAGPAGGGYDQSGGYDEYRADQPSFRAKDYEVDATIKSLNSQIENLL
TPEGSKKNPARTCRDIRLSHPDWSSGFYWIDPNQGCIADAIKAYCDFSTGHTCIHPHPES
IARKNWYRSSENKKHVWFGETINGGTEFAYNDETLSPQSMATQLAFMRLLANQATQNITY
HCKNSVAYMDGENGNLKKAVLLQGSNDVELRAEGNSRFTFNVLEDGCTRHTGQWSKTVIE
YRTNKPSRLPILDIAPLDIGEADQEFGLDIGPVCFK

>BAG93005.1 extensin/Ole e 1-like protein [Oryza sativa Japonica Group]
MARPRFATTAPLLALAVLAAVVSVAVATAPAGKDPGGFVVTGRVYCDPCRAGFETNVSKS
IPGATVSVECRHYGAGRESLKAEATTDEKGWYKVEIDQDHQEEICEVVLDKSSDPACSET
EKTRDRSRVPLTSNNGLKQNGIRYANPIAFFRKEPLADCGSILQKYDLKDAPETP

>BAG94438.1 Allergen Ory s 12.0101; profilin [Oryza sativa Japonica Group]
MSWQTYVDEHLMCEIEGHHLTSAAIVGHDGTVWAQSAAFPQFKPEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGAVIRGKKGSGGITVKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVEQGL

>BAG93129.1 polygalacturonase [Oryza sativa Japonica Group]
MGFVRALFLLAMVCVAAHAKDYPKEEGAKAEGPAAASGGGGGSTHDVVKLGGKGDGKTDS
TKAVNEAWTAACAGTGKQTIVVPKGDFLTGPLNFTGPCKGDIVIQLDGNLLGSTDLALFK
SNWIEIMRLESLEISGKGKLDGQGAAVWSKNSCAKKYDCKILPNTLVLDFVNNGLISGIS
LVNPKFFHMNVFKSKNITIKDVTITAPGDSPNTDGIHMGDSSKISIIDTVIGTGDDCISI
GPGTEGVNISGVTCGPGHGISVGSLGRYKDEKDVTDVTVKNCVLKKSTNGVRIKSYEDAA
SVLTASKFTYENIKMEDVANPIIIDMKYCPNKICTANGNSKVTIKDITFKNITGTSSTPE
AVSLLCSDKLPCTGVTLNDIKVEYSGTNNKTMAVCKNAKGTATGCLKELSCF

>COMPARE073 Allergen Asc l 13; glutathione S-transferase, partial [Ascaris lumbricoides]
RLIFHQAGVKFEDNRLKREDWPALKPKTPFGQPLLEVDGEVLAQSAAIYR

>COMPARE074 Allergen Asc l 13; glutathione S-transferase, partial [Ascaris lumbricoides]
FGLAGKTPMEEAQVDSIFDQFKDFMAELRPCFRVLAGFEEGDKEKVLKEVAVPARDKHLP
LLEK

>COMPARE075 Allergen Asc l 13; glutathione S-transferase, partial [Ascaris lumbricoides]
WIAERPKTPY

>AFP95338.1 Allergen Pro c 5.0101; myosin light chain 1 [Procambarus clarkii]
MAADLSARDVERVKFAFSIYDFEGNGTMDAFYIGDCLRALNLNPTLAIIEKVGGKEKRKE
KIIKLEEFIPIFAQVKKDKDAGSYEDFMEVLKLYDKSENGTMMYAELEHILLSLGERLEK

SELEPVLKECCNEEDEDGFIPYEPFLKKMTQLL

>AIO08861.1 Allergen Der f 33.0101; alpha-tubulin [Dermatophagoides farinae]
MRECISLHVGQAGVQIGNACWELYCLEHEIQPDGQLSPVKSTTTLSSSETISNDSFSTFF
NETGNGRFVPRSIYVDLEPTVVDEVRTGEYRRLFHPEQLITGKEDAANNYARGHYTEGKT
LIEPVMRRIAKLAEQCSGLQGFLIFHSFGGGTGSGFSSLLMERLSVEYGKKSKLEFAIYP
APAISTAVVEPYNSILTTHNTLEHSDCSFMVDNEAIYDICRRNLNIERPSYMNLNRLIGQ
IVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLVSYAPIVSSEKAYHEQFTVPEITG
TCFEPSNQMVKCNTRNGKYMACCLLYRGDVVPKDVNAAIAAIKAKSTIQFVQWCPTGFKI
GINYRPPTVVPSGDLAKVQRAVCLLSNTTAISEAWSRLNHKFDLMYSKRAFVHWYVGEGM
EEGEFSEAREDLAALEKDYEEVAAEYNADDDDYDDRDGEEF

>QAT18644.1 Allergen Der p 33.0101; alpha-tubulin [Dermatophagoides pteronyssinus]
MRECISVHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGTGDDSFNTFFSETGSGK
HVPRAVYVDLEPTVVDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIVDLVLD
RIRKLSDQCTGLQGFLIFHSFGGGTGSGFTSLLMERLSVDYGKKSKLEFAVYPAPQVSTA
VVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLNRLIGQIVSSITA
SLRFDGALNVDLTEFQTNLVPYPRIHFPLVTYAPVISAEKAYHEQLTVSEITNTCFEPAN
QMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIASIKTKRSIQFVDWCPTGFKVGINYQPP
TVVQVVIWLKYNVLFVCCPTLLPSLKLGLDWIINLI

>QAT18643.1 Allergen Der p 32.0101; inorganic pyrophosphatase [Dermatophagoides pteronyssinus]
MSIRSINLLTRQTIPGSLISIIGINNNFHNRYIYFSFKHPHQSFKYHHLSSASLSINFSI
SKNVHYKQQPYNIGNKVHFVQNHQLRKFFATKTNNKMSTNYSVDNRGALNSLDYRIYFKN
DSNGKIISPWHDIPLFADKSAKQYNMVVEIPRWTNEKMEIATAEPMTPIKQDVKKGALRY
VKNVFPHKGYIWNYGAFPQTWENPNHIDQGTKAKGDNDPIDVIEIGSRIAKRGDVIPVKI
LGTIALIDEGETDWKIITIDTRDELAGQMNNVDDVEKLLPGLLRATVEWFRIYKIPDGKP
ANKFAFNGEAKDREFAEKVVEETHQYWREMMENKAGEHQLDLKNITLGNSYTINDEQAKQ
FLETRPASNTVEPNPIADQVAIDKWHHVKLI

>QAT18639.1 Allergen Der p 28.0101; heat-shock protein 70 [Dermatophagoides pteronyssinus]
MPSKTSKAPAIGIDLGTTYSCVGVFQNGSVEIIANDQGNRTTPSYVAFTDTERLIGDAAK
NQVAMNPANTIFDAKRLIGRRFDEPSVKSDMKHWPFKVVSESGKPKIEVEFKGEQKRFWP
EEVSAMVLTKMKETAEAYLGQKVTDAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEP
TAAAIAYGLDKKGGGEKNVLIFDLGGGTFDVSVLTIDNGIFEVKSTAGDTHLGGEDFDNR
LVNHFVQEFKRKFGKDIMSNKRALRRLRTACERAKRTLSSSTQTTIEIDSLHEGTDFYST
ITRARFEELCSDLFRSTLEPVEKALRDAKLDKSKIDEIVLVGGSTRIPKIQKLLSDFFNG
KELNKSINPDEAVAYGAAVQAAILTGDTSNNVKDLLLLDVAPLSLGIETAGGVMTTLIKR
NTTIPTKQTQTFTTYADNQPAVTIQVYEGERAMTKDNNRLGTFDLTGIPPAPRGVPQIEV
TFDVDANGILNVSAVDKSTGRQNKITITNDKGRLSKADIEKMVNEAEQYREEDERQRERI
SAKNQLEAYAFQLKSTMEEEAIKSKLSEEDRKTVLNKVEETLRWLDSNQLADKEEYEHRQ
KELESACRPIMTKIYQQQQQHPGAPGANGSCGSNAYPGYGGFNSNNDGPVVEEVN

>QAT18638.1 Allergen Der p 26.0101; myosin light chain [Dermatophagoides pteronyssinus]
MADLRPPEVEKARLHFDIYDFEGQGKVDYHLLGDLLRSLDLRPTQEMVAKNGWEKKKGQK
YMTFEEFLPIYSQVKKDKDCGAYEDLVEGLKVYDKAENGTMMEAELAHVLLSLGENWMIR
K

>QAT18637.1 Allergen Der p 25.0101; triosephosphate isomerase [Dermatophagoides pteronyssinus]
MGRKFFVGGNWKMNGSRATNDDLIKILTNTPLDPNTEVVVGVPSIYLADVRHKLSKSIGV
AAQNCYKVAKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGENDQLIGEKVEHALNEGL
NVIACIGELFEEREAGKTTEVVFRQTQVISKHVKDWSKVVLAYEPVWAIGTGKTASPQQA

QEVHQQLRQWFSTNISPQIAETIRIIYGGSVTASNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>AGM32377.1 Allergen Copt f 7.0101; Per a 7 homologue [Coptotermes formosanus]
MDAIKKKMQAMKLEKDNTMDRALLCEQQARDANLRAEKAEEEARSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEELRVVGNNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKGSRQA

>NP_001138311.1 complement component, C1q-like [Apis mellifera]
MVVWLVLIATSSSVYLAEAAIPDPPNSKISTVNPSKLSTAVDCTGIIAFSATHASVDHAK
AVFAETLVDKGVGYVPQTGIFITNCPGLYQFSFAGYGSTDLRLTLKKKQNNSDSWRPVVG
TGAGGGANLILLEVDVGDQLAVFVDSGKISDGVTFSGYRIAKI

>XP_392204.2 platelet-derived growth factor/vascular endothelial growth factor, PVF1-like [Apis mellifera]
MPYSKCRTFLRFFAICSFSTCGLVMAQLEDTRYPDQRIVFPDRGRETANPALEGGPSGGG
IGELAKSIQLAKKISSINSRDDFLKLVKDVPKDISFFSSSSRMGETERSNAERPNQALCM
PELQTVPLLENEPSVIYYPTCTRIKRCGGCCTHSLLSCQPTATEIRNFEILVTILESSGK
LKYQGKRIVPIEEHTQCTCDCKIKETDCNKKQSYVPEECTCACNNVDEQKKCNESNIKMW
HPDLCSCFCRETQECSTGFYFDQNSCRCLQVPLSRTWFTSTKGSDYRFGQTQRPDNVPPV
IIALDSDDPRRKPKPDPE

>COMPARE147 alpha parvalbumin [Mustelus griseus]
EVFEILDKDQSGFIEEEELK

>COMPARE148 alpha parvalbumin [Mustelus griseus]
ALLAAGDSDHDGKIGADEFAK

>COMPARE149 beta parvalbumin [Mustelus griseus]
LFLKNFSATAR

>COMPARE028 beta-lathyrin, beta-conglycinin, vicilin, 7S globulin [Lathyrus sativus]
YRLLEYKSKPHTLFLPQYTDADFILVVLSGKAILTVLNSNDRNSFSLERGDTIKIPAGTI
AYLANRDDNEDLRVLDLAIPVNKPGQLQPFLLSGTQNQPSLLSGFSKKVLEAAFNTNYEE
IEKVLLEQQEQQHRRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKKSVSSESEPF
NLRSRNPIYSNKFGKFFEITPEKNQQLQDLDIFVNSVEIKEGSLLLPNYNSRAIVIVTVN
EGKGDFELLGIRNENQREESDEEEEQEEETSKQVQRYRAKLSPGDVFVIPAGHPVAINAS
SNLNLIGFGINAENNQRNFLAGEEDNVISQIQRPVKELVFPGSSREVDKLLKNQRQSYFA
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
RISFVANENTGNKINTRFICNLGGIELGWPGIDGTDACQGHGLSCPLTKGQTYNYHLDFN
LGDDVPTANVTATVRLENGHGGDLLCGRMHISLQN

>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]
MGHLRNISLVLAISFAILHLSHAHETYGEPGNTPDDYVHAHNCIRRVLGMKPLCWDDELA

KVAQAWAETRTPDCSLIHSDRCGENMAQGAINGSMAVQLWLDERLDYDYNENKCIKMCGH
YTQIVWANSERVGCGRALCSNGWAYIIVCNYDPPGNVVGQKPY

>ABC86902.1 Allergen Bla g 9.0101; arginine kinase [Blattella germanica]
MVDAAVLEKLEAGFAKLAASDSKSLLRKYLTKEVFDNLKTKKTPTFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYTVFADLFDPIIEDYHGGFKKTDKHPPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEGELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQHANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVTAVNDIEKRVPFSHDDRLGFLTFCPTNLGTTVRASVRIKVPKLAADKKKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKGMNDGIAELIKIESSL

>AHL24656.1 Allergen Ole e 14.0101; polygalacturonase [Olea europaea]
IPHNGVRRGLVGETIFDVMKYGAKADGRFDNAQAFIKAWKAACESTGPAKVVIPKGDFVA
GEVVFQGPCTAPKPITIEIQGNVLASTDVSAYTSGSWIMLEEIDGLVINGGGTINGRGKS
SWQFAGANNEGPLLPVSLTFKKVKNSEMHDVNFVDSMGFHSKVADSENIKISKLKISAPG
DSPNTDGMHISCSTNVNVTDSIIGTGDDCVSIGHGTTDILVSGITCGPGHGISVGSLGKR
PDETDVKGISVINCTLTGTTNGARIKTYHASPSIQASDILYKDIIVTDVKNPILIDQHYD
SKKKPEQSKVKISGVHFVNIKGTTVSEIPVALNCSEAVPCEDVELADIDLAPSGAAGSLK
SVCANAKFVLKGKPIPPGC

>COMPARE128 acidic endochitinase, class III chitinase, partial [Punica granatum]
GDIAIYWGQNG

>COMPARE022 vicilin/ 7S globulin [Prunus dulcis]
MAIKITIKASYKLPFFFFFLSTLFLASSSVTPLINALSDYHNQKCQQSICRGVGGRHSLL
RSKDHPQDAREEYFYCSQSCGTSEDPEQCETECRERFDEQLKKEAEEQQKGQEEEEEEGP
TFNPNPYYFPKFGLRPRFLAEEGAYFVLGSFARLSHLLRGRIQNYRAALLQTTPGTFVLP
YHLDAESIFVVWNGRGTLTLVMKDTKQSFKIENGDVIRVPAGATTYLINNHTTENLSLVQ
LFQPVNTPDLFEEFFPAGYKDPEPGSDYSFLHGTESYYSVFSNDLLEAAFDVPREQLEKA
FGQQKREGMIIRASKEQLDALSKQAYPWWRKLVPWSMGSDLNFNLLSQRPLHSNNYGKFY
EASPQEFKQLQDMNVSVAMLDINPEAMMVPHYNSKATYLMMVVDGMGYFEMACPKFTIPA
SEEEMEYQEEQADQQSGVFSKVSGKLSLGDVFVIPAGHPVSIVAQNNNNNNNNNGNQNQK
LRIVGFGINAGNNIRNFLAGQEGNIMKQMEREATQLTFGQEMEQVLTSQKQSYFVPASRR
GSSTEKA

>CAA67128.1 Allergen Tri a 17.0101; wheat beta-amylase [Triticum aestivum]
MAGNMLANYVQVYVMLPLDVVSVDNKFEKGDEIRAQLKKLTEAGVDGVMIDVWWGLVEGK
GPKAYDWSAYKQVFDLVHEAGLKLQAIMSFHQCGGNVGDVVNIPIPQWVRDVGATDPDIF
YTNRGGTRNIEYLTLGVDDQPLFHGRTAVQMYADYMASFRENMKKFLDAGTIVDIEVGLG
PAGEMRYPSYPQSQGWVFPGIGEFICYDKYLEADFKAAAAKAGHPEWELPDDAGEYNDTP
EKTQFFKDNGTYLTEKGKFFLSWYSNKLIKHGDKILDEANKVFLGCRVQLAIKISGIHWW
YRVPNHAAELTAGYYNLDDRDGYRTIARMLTRHHASMNFTCAEMRDSEQSEEAKSAPEEL
VQQVLSAGWREGLHVACENALGRYDATAYNTILRNARPKGINKNGPPEHKLFGFTYLRLS
NELLEGQNYATFQTFVEKMHANLGHDPSVDPVAPLERSKPEMPIEMILKAAQPKLEPFPF
DKNTDLPVKDHTDVGDEVLVAPV

>COMPARE153 polcalcin [Amaranthus retroflexus]
MAAEDTPQDIADRERIFKRKETNGDGKISSSELGDALKTLGSVTPDEVRRMMAEIDTDGD
GFISFDEFTDFARANRGLVKDVSKIF

>QCB92083.1 Putative Uro m 1; beta-expansin [Urochloa mutica]
MLAVVAVVLASMVGGALCAMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDSMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>QCB92082.1 Putative Uro m 1; beta-expansin [Urochloa mutica]
DGKWLDAKATWYGKPTGAGPDDNGGACGYKDVNKAPFNSMGACGNPPIFKDGLGCGSCYE
IKCDKPAECSGEPVIVHITDQNYEPIAAYHFDLAGTAFGAMAKKGEEEKLRKAGIIDMQF
RRVKCKYPANTKIAFHVEKGCNPNYFALLIKYAAGDGDIVAVDIKEKGSEEFIPLKHSWG
AIWRIDSPKPIKGPIAVRLTSEGGTTLVQDDAIPEGWKADTVYTSKLQF

>QCB92084.1 Putative Uro m 1; beta-expansin [Urochloa mutica]
MGSLANIVAVAAVLAALVGGGSCGPPKVPPGPNITANYNGKWLPARATWYGKPTGAGPDD
NGGACGIKDVNLPPYSGMTACGNIPIFKDGKGCGSCYEIRCKAPVECSNNPVTVFITDMN
YEPIAPYHFDLSGKAFGALAKPGLNDKLRHAGIMDIEFRRVRCKYTGGQKIVFHVEKACN
PNYLAVLVKFVADDGDIVNMELKEKASAEWKPMKLSWGAIWRVDTPKALKGPFSIRVTSE
SGKKLVANDVIPANWKANTAYPSNIQF

>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]
SALALVGNKVDTGR

>COMPARE066 nsLTP, partial [Olea europaea]
SALANVGNKVDTGR

>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]
VPSGTYGNKHECPCYRDKKNSKGKSKCP

>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]
AAMAAVAAQGK

>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]
YAEPPTGQQR

>COMPARE124 esterase FE4-like protein, partial [Myrmecia pilosula]
APGNLGLKDQVVALR

>COMPARE125 venom dipeptidyl peptidase, partial [Myrmecia pilosula]
VYYLATAPGEPSQR

>COMPARE126 venom dipeptidyl peptidase, partial [Myrmecia pilosula]
NLYSVPLDASQKPT

>COMPARE127 venom dipeptidyl peptidase, partial [Myrmecia pilosula]
EYDHYITTNR

>COMPARE129 beta-1,3-glucanase, partial [Mangifera indica]
AGDWVQTNVLAYSADVK

>COMPARE131 beta-1,3-glucanase, partial [Mangifera indica]
GSNIELILDVPKDKLQDLTDSAK

>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 glyceraldedhyde-3-phosphate dehydrogenase [Fusarium lateritium]
RVPTANVSVVDLTVRI

>COMPARE071 glyceraldedhyde-3-phosphate dehydrogenase [Fusarium lateritium]
RTTYFGPTGNDSSTVLKY

>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
VRAITADGLLWGTSKLVPLVHGINKLQIACVVEDDKVGTDFLEESIMELEDYVQSVDVAS
FNKL

>P81531.2 Allergen Bet v 7.0101; cyclophilin, partial [Betula pendula]
DFTAGNGTGGESIYGAKDXXXXXXTGPGILSMANAGPGTNG

>COMPARE145 pectate lyase [Hesperocyparis arizonica]
DNPIDSCWRGDSNWDQNRMKLADCVVGFGSSTMGGKGGEIYTVTSSEDNPVNPTPGTLRY
GATREKALWIIFSQNMNIKLQMPLYVAGYKTIDGRGAVVHLGNGGPCLFMRKASHVILHG
LHIHGCNTSVLGDVLVSESIGVEPVHAQDGDAITMRNVTNAWIDHNSLSDCSDGLIDVTL
GSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVHV
ANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACSNWVWRSTR
DAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQNAGVVA

>AAC61261.1 Allergen Asp f 16.0101 [Aspergillus fumigatus]
MYFKYTAAALAAVLPLCSAQTWSKCNPLAETCPPNKGLAASTCTADFTSASALDQWEVTA
GKVPVGPQGAEFTVAKQGDAPTIDTDFYFFFGKAEVVMKAAPGTGVVSSIVLESDDLDEV
DLVRLGGDTTQVQTNYFGKGDTTTYDRGTYVPVATPQETFHTYTIDWTKDAVTWSIDGAV
VRTLTYNDAKGGTRFPQTPMRLRLAAGPAATPATPGHHRVGRWLDRLQRGTVHHVRQVRP
YRERQPRRVLHLLGQLWLLAEHQVRRLRRYSSSSSVTSSTTSTASSASSTSSKTPSTSTL
ATSTKATPTPSGTSSGSNSSSSAEPTTTGGSGSSNTGSWLRLRLWLWLYSSTGSSTSAGA
SATPELSQGAAGSIKGSVTPALWCSAPSLPCWHSKQNDDFGLMHDTHHEGDVRTIHFGIG

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]
GVYTFENEYTSEIPPGRLFKAFVLDADNLIPKIAPQA

>COMPARE137 Allergen Par j 1 [Parietaria judaica]
MVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPPIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGPSRSRPPTKHGW
RDPRLEFRPPHRKKPNPAFSTLG

>AAB35977.1 Allergen Der f 7.0101; Mite allergen [Dermatophagoides farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVPDHADKFER
HVGIVDFKGELAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAIFQDTVRKEMTKVLAPAFKRELEKN

>P14292.3 Allergen Cand b 2.0101; peroxisomal membrane protein A [Candida boidinii]
MAPIKRGDRFPTTDDVYYIPPEGGEPGPLELSKFVKTKKFVVVSVPGAFTPPCTEQHLPG
YIKNLPRILSKGVDFVLVISQNDPFVLKGWKKELGAADAKKLVFVSDPNLKLTKKLGSTI
DLSAIGLGTRSGRLALIVNRSGIVEYAAIENGGEVDVSTAQKIIAKL

>COMPARE018 Putative Bra r 3; lipid transfer protein [Brassica rapa]
MKIMVLTLMVFVILLTLFPAPNEAADTNVEAACDPKQLQPCLAAITGGGQPSGDCCAKLK
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]
MRECISVHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGTGDDSFNTFFSETGSGK
HVPRAVYVDLEPTVVDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIVDVVLD
RIRKLSDQCTGLQGFLIFHSFGGGTGSGFTSLLMERLSVDYGKKSKLEFAVYPAPQVSTA
VVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLNRLIGQIVSSITA
SLRFDGALNVELTEFQTNLVPYPRIHFPLVTYSPVISAEKAYHEQLTVAEITNTCFEPQN
QMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIAGIKTKRSIQFVDWCPTGFKVGINYQPP
TVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDLMYAKRAFVHWYVGEGMEEGEFSE
AREDLAALEKDYEEVGLDSTEAEGGDGEEF

>Q5QKR2 Allergen Eri s 2.0101; ovary development-related protein [Eriocheir sinensis]

MWCSILLAAVMVAVAGGQSRFSYDGTPLADDVVVGSGQRQQFFASRQPRPQQLFVQERPQ
QVFVQQQPQPPVFVQPEPQQVFVQPQPRPMFQMLPSFSQQAAVIQSVQPQVSSACPATYS
LVHTTYQGRVYHSSWCNLPGHRFSQSAARDYCRGLGEVTVMNRRGSFDLYSVDRTTDFDY
FFELLLQHQIPSVWTRDLASTAPYEIRGSITRSGDSTAGQDCLSLEASTDGLFLLQDSCS
DRKAAVCVAHWQ

>BAF43535.1 Allergen Ani s 6.0101; serine protease inhibitor [Anisakis simplex]
MFQSTFFLVLMVCVATARFANKDHCPPNEEYNECGNPCQEKCDNGEPVICTYQCEHRCFC
KQGYVRLTEDGECVPEEFCKPIHY

>BAF47264.1 tropomyosin fast isoform [Pandalus eous]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFGLQKKLQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>AAR08428.1 translationally controlled tumor protein,ClaTCTP [Cladosporium herbarum]
MLIYNDIISGDELISDSYDLVEVDGVAYEADCRKITIGGETFDTGANASAEGGDEEADDQ
KETKIDVVHAFQLQETNFDKKAYLGHLKSYMKKIKESMAASGASEDEVKEFEKGAQTFAK
RVVGSFKDYEFLIGPSMDPDAMVVLLNYREDGVTPYVTLWKHGLKSTKV

>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
TQTPHHEEKTTTEETHHSDDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWY
ITVMPCSIGTKFDPISRNCVLDN

>COMPARE099 Allergen Gal d 6.0101; vitellogenin-1 precursor, partial [Gallus gallus]
PEIASQIAQEDQSTXEV

>P86699 arginine kinase [Chionoecetes opilio]
MADAATISKLEEGFKKLQGATDCKDVFDQLKQTDKHPNKDFGDVNQFVNVDPDGKFVIST
RVRLIDDHFLFKEGDRFLQAANACRYWPSGRGIFHNDKKIISMQMGGDLGQVYRRLVSAV
NEIEKRVPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKXEKLEEVAGKYSLQVRGTRGE
HTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMQ

>ACT37323.1 Allergen Sta c 3.0101; SchS34, partial [Stachybotrys chartarum]
AGPIASRQIVPNYPASSTSKGFHLVVNVTDPSADFTPSINNFYVNSIHVGAALNYVGVTA
VPGRIFYQNGTAEEIRYAQSTVISDGATPPVPFGLSLRPDEGSDVVSTARLDAGPGTTGV
RVSRFPEPYRFLQPETFLACNESLAYYQGDYFTVIKQADVTVGDDGSIDYNVPDNCISVR
LIPECTELNELPEDAYASHEFAADTQCYDDVSALNWSEYGP

>ACV96855.1 arginine kinase [Scylla serrata]
MADAAVIEKLEEGFKKLEAATDCKSLLKKYLTKSVFDQLKGKKTSLGATLLDVIQSGVEN
LDSGVGVYAPDAEAYTLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKFV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMESKVSSTLSNLEGELKGTYYPLTGMTKDVQQK
LIDDHFLFKEGDRFLQAANACRYWPTGRGIYHNDNKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVSAVNEIEKRVPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>ADM53099.1 fibronectin-binding protein [Staphylococcus aureus]
MAYDGLFTKKMVESLQFLTTGRVHKINQPDNDTILMVVRQNRQNHQLLLSIHPNFSRLQL
TTKKYDNPFNPPMFARVFRKHLEGGIIESIKQIGNDRRIEIDIKSKDEIGDTIYRTVILE
IMGKHSNLILVDENRKIIEGFKHLTPNTNHYRTVMPGFNYEAPPTQHKINLYDITGAEVL
KYIDFNAGNIAKQLLNQFEGFSPLITNEIVSRRQFMTSSTLPEAFDEVMAETKLPPTPIF
HKNHETGKEDFYFIKLNQFNDDTVTYDSLNDLLDRFYDARGERERVKQRANDLVRFVQQQ
LHKYQNKLAKLIEEYEQSKNKDTEQLYGELITANIYRIKQGDKEVTALNYYTNEEVVIPL
NPTKSPSANAQYYYKQYNRMKTRERELQHQIQLTKDNIDYFSTIEQQLHHISVHDIDEIR
DELAEQGFMKQRKNQTKKKKAQIQLQHYVSTDGDDIYVGKNNKQNDYLTNKKAKKTHTWL
HTKDIPGSHVVIFNDAPSDTTIKEAAMLAGYFSKAGNSGQIPVDYTLIKNVHKPSGAKPG
FVTYDNQKTLYATPDYELIQKMKQS

>CAY85463.1 Allergen Tri a 35.0101; Dehydrin [Triticum aestivum]
MEHQGHGAGEKKGVVESITEKLPGGHGDHQQATGGTYGQQGHAGVTGENIKEKLPGGHGD
HQQTTGMTGSETHATTATTDGNYGKSGHTGTDGTGENKSIMDKIKDKLPGQH

>COMPARE057 28 kDa major allergen [Phaseolus mungo]
GRREDDYDNLQL

>BAL72725.1 Allergen Pen m 4; sarcoplasmic calcium-binding protein
[Penaeus monodon]
MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGKKYGEFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSAFAEVKEIDEAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPEESC
SACYLFGPLKVVQ

>COMPARE140 PR-10, partial [Foeniculum vulgare]
GVQKSEVVITSA

>COMPARE141 lipid transfer protein, partial [Foeniculum vulgare]
AITXGQVTSKLG

>COMPARE142 lipid transfer protein, partial [Foeniculum vulgare]
GGGDPTPACCGGVK

>COMPARE143 lipid transfer protein, partial [Foeniculum vulgare]
GINYGAASALPGK

>COMPARE144 lipid transfer protein, partial [Foeniculum vulgare]
CGISIPYPISPSTNCSR

>AER70365.1 Allergen Ves v 6.0101; vitellogenin [Vespula vulgaris]
MRSRFILLLLGVAVSNLDNNIEHGWKVGEEYQYLVRSRTLTGLQTLSDQYAGILMKATLR
IQCNSPDTLRAQLLKPQYAQIHKKLPDGWDSRISDQMLEHKHLPLSNEPFVIKLKHGVIR
DLIVSKNVPTWEVNIIKSIISQFQADTQGENLKGNKNTQIPEDDNPFATFRVMEDCVSGK
CEVLYDVVPLTEDVLQHRPHILPKPELRGNGEHIYITKTRNYDKCEQRMDYYFGISGNAN
WESDIRNNDKIMKKSSTSNMVISGNLKNFVIQTAVTTTEIIMKPRLVDDQESIVISKMNV
TLVSVNKVSSPIPAPNNPESTGNLVYTYNDPFSKTVQRRLGRPSVSPNSMSNELDSSADS
DEDLRLMREKYGKSDKMNVVSDEDKAFRQMKPTLHEAPKNPMLPLFIGNNGKAVVMSDKI
NSGKMVMTLVQEIASEMEDPNVMPDRETLEKFTIVSRLISSMSLEQINKAEGSLHSVWNE

IGSDETNRMKKENARAVFRDAIANAGTGPALMTIKRWIEKKEIEGCEAADVLASIPKTAR
TPTAEYVDAFFSLASNPEVQKQTCLNSSAVLSFAELVHRAQVSNSSIYNHYPVNVFGRLS
SRRNDAVLRKYIPFFAEELKKAIKDGDSPRIQVYILALGLTGHPKILNVLEPYLEGKERV
STYQRFLMVMSLRKLCEVKPSLARSVLYKIYLNTWDVHQIRCAAVNLIMRTNPPLDMLTR
MAQFTNTDFSGQVNSAVKSAIESAANLNYPEWEELTRNARKVLHLMNTESDKYYYSESHF
TEMEENDQLSYRMMLNYIGSVDNVIPLSTHFALQPSYNGFLSPVYELDMSISSVKSLLEM
YWHKSEKGDTEESFAEKTAKMLHIESDNVEQVEGNVFFKTPYLNRYFSFDNHTIERILHD
MVSPRHSHHVNMNKLLSYDITLSFPTETGLPFVYSLHVPTIKKFSVISKPDMKSKFDVRL
LTSTKHQGRVGFITPFDHQAFLSGIDNNMQVFLPCKLDFHLNNEKSRLDAALQPLKHNSK
TRLGHFSVIPYTSQYEIMSLRPLLLEKNTHRIQEKKTTHIRIPQNPNSIFSVEVEADNLA
EKIQQWLRSENKWEDMLSPSSLALGTYEKIDLFVKPDLQENEAVKFTATLDTKEIRSNNL
DTNDESWKSGNKVLKTMHQALDSPARRKEFLQEVVKGINSGKAYVIDAGLEVPGLWKSNH
ACTLCLASSNDENKFRSIFYWYTNIPSQDITYQMCVNGQTRSSPTTPFDYKKILDSNPTN
EFSINIQSGRTCTDNSLVTIKGQIKQSEDYKTYVQESRIVKRCDENVRNSVKDCQKAAEM
AKNLNEIDMTITKHNSAEESDTELEKIFHGTKKMLTGLNVRVVSEIQEHSDVNDNDIRVQ
IKLSPNMTSAEGMASKSGQILTFSDIHIDMGIDNDDEMNEIEKGILHGATCTLRNNEAET
FDGKVYPLKLGKCAHVLFTTYPRNAPNEPNKRMSIPENMKVTVIAEETENNKKELQILLG
NDEILFKSSGTEVSAWVNGQKVKCSQKESYQHIKNDETLFEIFELPGPAIKLISDKYDIK
LAYDTDHVQIEVPHTYQQSVRGLCGDFDGRSENDFVTPKNCMLQKPEEFAATYILKERCE
GPALNNAKKAERSKCIRKVLRFSDVISDGEAGRPYVNWKQWGYHKKENKKQCNTYRTQII
TKDDNICFTIRPVPTCSSGCKSVVTKLKEYQLYCLPKNDSSLGMKKRIEQGANPDLSQRT
PTDNAMISVPLECVAT

>COMPARE079 glutathione-S-transferase [Dermatophagoides farinae]
MELGTLEGSMSETKPILGYWDARGLGQAIRLLLTYAGVDFIDKRYTVGPPPNYDRSQWLN
DKYNLGLDFPNCPYYIDGNVKLSQSLAIIRYIARKQKLIGQNEHEEIRASLAEQQIIDMN
MAIARIAYNFNCEKLKPEFLKSLPEQVELLSKFLGDQPFTAGANISYADFLLYEYLTKLK
ILVPEVYDKFENLKKFHGNVLEALPRVSEYIKKQQPKAFHGPTSLWNGTYA

>AGF86397.1 Allergen Mel l 1.0101; tropomyosin [Penaeus latisulcatus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANIRAEKAEDDVNKLQKKLQQLENDFDQV
QEALLLANTNAVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>BAG92398.1 lipid transfer protein [Oryza sativa Japonica Group]
MARAQLVLVAVVAALLLAAPHAAVAITCGQVNSAVGPCLTYARGGGAGPSAACCNGVRSL
KSAARTTADRRTACNCLKNAARGIKGLNAGNAASIPSKCGVSVPYTISASIDCSRVR

>Q28895 Allergen Can f 7.0101; NPC intracellular cholesterol transporter 2 [Canis lupus familiaris]
MRLLVAAFLLLALGDLGPGGAVHFKDCGSAVGVIKELNVNPCPAQPCKLHKGQSYSVNVT
FTSNIPSQSSKAVVHGIVLGVAVPFPIPEADGCKSGINCPIQKDKTYSYLNKLPVKNEYP
SIKLVVQWMLLGDNNQHLFCWEIPVQIEG

>COMPARE029 11S globulin, partial [Lupinus albus]
PAEVLANAFGLR

>BAO50858.1 13S globulin [Fagopyrum esculentum]
MSTKLILSFSLCLMVLSCSAQLLPWQKGQRSRPHHGHQQFQHQCDVQRLTASEPSRRVRS
EAGVTEIWDNDTPEFRCAGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVVPGC
PETFQSESEFEYPQSQRDQRSRQSESEESSRGDQRTRQSESEEFSRGDQHSRQSESEESS
HGDQHQKIFRIRDGDVIPSPAGVVQWTHNDGDNDLISITLYDANSFQNQLDGNVRNFFLA
GQSKQSREDRRSQRQTREEGGDRQSRESDDDEALLEANILSGFQDEILQEIFRNVDQETI
SKLRGETDQRGFIVQARDLKLRVPEEYEEELQRERGDRKRGGSGRSNGLEQAFCNLKFKQ
NVNRPSRADVFNPRAGRINTVNSNNLPILEFIQLSAQHVVLYKNAILGPRWNLNAHSALY
VTRGEGRVQVVGDEGRSVFDDNVQRGQILVVPQGFAVVLKAGNEGLEWVELKNDDNAITS

PIAGKTSVLRAIPVEVLANSYDISTKEAFRLKNGRQEVEVFRPFQSRDEKERERYSIV

>AAS48514.1 Allergen Fag e 5.0101; vicilin-like [Fagopyrum esculentum]
IAVVTNGKGKFQMACPHISAEGKQSKRQREGKSIVHYETVNGDLSSGTVFVVPAGHPFVT
AASLEDNLELICFEVNADDNERIPLAGKNSLFKQFEREAKELAFEEKADVVDKLLEKQQQ
EFFFEGPRRRKEQEAGRSDA

>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]
MASEQLARRENTTTEKEIHVEKHRVPKMATHFEHLAEQAKESDITAGKDTPQGSIEALQA
GERVKDHAGKAMGDIGGRGKARETHELGAHFESLADKVTDHAAANVVGNKESQREARGGV
RDVGKFEMRTEGGEKGNKDRPELKTRTREVIGRTEKERGRESGGQVVAEKGRETETARGR
VGAENEGARTTAVITCTLEKGGGTQKPIREEERESESERSAWEQISNYSDQATQGVKEKY
ERAKQAASETLNTTTQTAQEKSAQAKNLAAQAKDATLEKGQQGYAVTKDTISSAAKTASE
KTAPVAEKAKDYTLQAAEKAKSAGGTTASYVGEKAVQAKDVAVESGKSAAGYAAKVAADL
RDKATAVGWAAAHFSAEKTVEGTKAAAHVVEGAAGYAGHKAAELASMSAGAVKGLAASAG
ETAKEYTAKKKEEAQRELEAKKPSQPQEAEERPSEGIGETVRQYAQKPKPSERNPQKEGT
GSIVFTAIGETVSSAGEKVKKPFKNTTGGESEGGGGKEEGKSVIGKSLTSIGEKLGDAKQ
REELLDNVTGNITEGGGEVLGAVGETVAEIGQNMMKPAEIVQERAHVRQAGGVLDAIGET
IAEIAETTRVMVSGEDERVLRQSVVLETRVTGRAKHEEGSHGA

>CTQ87571.1 Allergen Pin p 1.0101; pine nut 2S albumin [Pinus pinea]
MGVFSSPMSTLRWVTLFAALLSLLEWGTAHEDIVMDGDQVVQQQGRSCDPQRLSACRDYL
QRRREQPSERCCEELQRMSPHCRCRAIERALDQSQSYDSSTDSDSQDGAPLNQRRRRRGE
GRGREEEEAVERAEELPNRCNLRESPRRCDIRRHSRYSIIGGSD

>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]
MAFKPKIPIALLLLTSLLAICAGLALAMQDPELKQCKHQCRHQRQFDEQEKEHCQRSCDE
YHIEKKARERAERRRSEEGSSREEGYEEEELGGEREEENPYVFEDEDFETRVRTDEGRIQ
VLEKFTKRSKLLRGIENFRVAILEANPQTFISPAHFDAELVVFVAKGRATITTVREEKRE
NFNVEQGDIMRIPAGTPVYLINRDENEKLYIVKILRPVSVPGHFEAFHGSGGEDPESFYR

AFSWEVLEAALKTRRDQLEKLFGKQTQGVIIKASKEQIRSMSKHEETTPRIWPFGGDSTH
PFNLFHKRPSQSNQFGRLFETDPKECKQLQDLDLMVSFANITKGSMAGPYYNSRATKISV
VIEGEGYFEMACPHLSSSGSRGQREGSGSSRRRSRSGPSYQQIRGRLRPGMVFVAPAGHP
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]
NQLTTNPENTVFDAKR

>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]
MQFTTIASLFAAAGLAAAAPLESRQDNASCPVTTKGDYVWKISEFYGRKPEGTYYNSLGF
NIKATNGGTLDFTCSAQADKLEGHKWYSCGENSFMDFSFDSDRSGLLLKQKVSDE

>COMPARE158 Allergen Tha p 2 [Thaumetopoea pityocampa]
SYSQSYSYVQCIQDSECNGCWK

>COMPARE159 Allergen Tha p 2 [Thaumetopoea pityocampa]
KAEEAIDLTYQEK

>COMPARE160 Allergen Tha p 2 [Thaumetopoea pityocampa]
NNLFNLGSVAGDILSR

>COMPARE044 conglutin gamma [Lupinus angustifolius]
AGIALGAHHLEENLVVFDLERSR

>COMPARE030 conglutin gamma [Lupinus albus]
AGIALGTHQLEENLVVFDLAR

>COMPARE054 conglutin beta [Lupinus luteus]
AIFIVVVDEGEGNYELVGIR

>COMPARE055 putative TAG factor protein [Lupinus luteus]
AVCNLFALEGATVIFTYVK

>COMPARE034 conglutin gamma [Lupinus albus]
HSIFEVFTQVFANNVPK

>COMPARE046 conglutin gamma [Lupinus angustifolius]
ISGGAPSVDLILDKNDAVWR

>COMPARE048 conglutin gamma [Lupinus angustifolius]
KISGGAPSVDLILDK

>COMPARE036 conglutin gamma [Lupinus albus]
KISGGVPSVDLIMDK

>COMPARE056 conglutin alpha [Lupinus luteus]
RPFYTNAPQEIYIQQGR

>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]
VGFNSNSLKSYGK

>COMPARE043 conglutin gamma [Lupinus albus]
VGFNTNSLKSHGK

>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]
KVDDSYNQLVSDEDNK

>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]
VDDSYNQLVSDEDNKR

>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]
QTFAEAINEPGLVFVAAK

>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]
MSNIPQEQWAQVIEKTGGPVEYKKIPVQKPGPDEVLVNIKFSGVCHTDLHAVNGDWPLPT
KLPLVGGHEGAGVVVARGELVNDVELGDHVGVKWLNGSCLSCDYCQTADEPLCPKPLLSG
YTVDGTFQQYCIAKAAHVARIPKECDLAAIAPVLCAGITVYKGLKESGVKPGQFAAIVGA
GGGLGSLACQYAKAMGVRTIAIDAGEEKKKMCVNDLGAETFVDFSTSKNLVADVQKATPD
GLGPHVVILVAVNEKPFQQAAEYVRPRGTVICIGLPAGAYLKAPVFETVIKMIRIQGSYV
GNRKDSSEAIEFFRRGLIKAPFKIVGLSELQMVYDKMHQGAVVGRYVLDTSK

>COMPARE152 Alt a 1 homologue, partial [Stemphylium botryosum]
KISEFYGRKPEGTYYNSLGFNIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMSFSFD

SDRS

>COMPARE151 Alt a 1 homologue, partial [Ulocladium botrytis]
KISEFYGRKPEGTYYNSLGFNIKA

>COMPARE174 probable vicillin-like protein, partial [Fagopyrum esculentum]
GDYPLEXCRQKIEH

>COMPARE175 trypsin inhibitor [Fagopyrum esculemtum]
SDKPQQLLEECRYLXRI

>COMPARE100 Allergen Gal d 9; enolase, partial [Gallus gallus]
SIQKIHAREI

>AAB32317.1 Allergen Cyn d Ib isoallergen {N-terminal} [Cynodon dactylon]
AIGDKPGPKITATYXXKWLEAKATFYGSNPRGAA

>AAQ24545.1 Putative Blo t 7 allergen [Blomia tropicalis]
MKSTIVLLACFVGIAFSDDAANQLVDQVVDALKTQKGFDSMHVGKHTTELDQKIGLVTFK
GKLIIKDATVTGLSRAAGDSDVKIHSNIELIVGLIQSHLTLDVDIGKLQIMFSAGLAAEG
PSVKDFHIDEFEAVRIHVHGLGPLDPFIDIIGDAIIXLAXSQVREMISXMMRPIIESEVK
KFLQNTTPAPAF