

>accession|2|Putative Blo t 1.02 Manual Entry [Blomia tropicalis]
MKFLLVAALCALVAIGSCKPTREEIKTFEQFKKVFVKVYRNAEEEEARREHHFKEQLKWVE
EHNGIDGVEYAINSEYSDMSEQEFSFHLSSGGGLNFTYMKMEAAKEPLINTYGSLPQNFDRW
QKARLTRIRQOGACGSCWAFAAAGVAESLYSIQKQQSIGLSEQELVDCTYNRYDPSYQCN
GCGSGYSTAEAFKYMIRRTGLVEERNYPYNMRTQWCDPDVEGQRYHVSQYQLRYHSSDEDV
MYTIQQHGPVVIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVGGWTVQGVVDYWIIR
NSWGTGWGNGGYGYVERGHNSLGINNYVTYATL

>accession|3|Putative vitellogenin I Manual Entry [Gallus gallus]
EIASQIAQEDQSTCEVSKGDFKTFDRMSFTCSFNKSCNVVVAQDCTEHPKFIITTRKVDH
QSLSREHVHINTSSANITICPAADSSLLVTCNKESVLSDSGVSEYEKDNKIYKNGKTIVV
EAPIHGLKNVNFEDGEILKVTVASWMRGKTCGVCNNDRKHNELLMPNHKLAHSCSAFVH
SWVLLREETCSGGCKLQRRYVKLNRNPTIDGEESTCYSVDPVLKCMKDCPTIEKTSVKVGF
HCFPKATAVSLLEWQRSSDKKSASEDVVESVDADIDCTCTGDSC

>accession|100|Putative Act d 9.0101 Manual Entry [Actinidia
deliciosa]
MSWQTYVDDHLMCEIEGNYLTSAAIIGQDGSIIWAQSASFQPKPEEITAIMNDFSEPGTL
APTGLYLGGTKYMIQGEAGAVIRGKKGPGGVTVKKTNQALIIGIYDEP

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

>accession|CAA68720.1|Putative precursor [Canis lupus familiaris]
MWFLLALCLAMSLGWTGAEPHFQPRIIGGRECLKNSQPWQVAVYHNGEFACGGVLVNPEWV
LTAAHCANSNCEVWLGRHNLSESEDEGQLVQVRKSFHPLYKTKVPRAVIRPGEEDRSHDL
MLLHLEPAKITKAVRVMDLPKKEPPLGSTCYVSGWGSTDPEITIFHPGSLQCVDLKLNSN
NQCAKVYVTQKVTKFMLCAGVLEGGKDTCKGDSGGPLICDGELVGITSWGATPCGKQMP
LYTRVMPHLMWIKDTMKANT

>accession|CAA26038.1|Putative prepromelittin [Apis mellifera]
MKFLVNLVALVFMVVYISYIYAPEPEPEPEAEADAEADPEAGIGAVLKVLTGLPALI
SWIKRKRQQG

>accession|CAA35692.1|Allergen IgE-binding protein C-terminal
fragment (148 AA), partial [Dermatophagoides pteronyssinus]
LFLNKDPKPLKKSIMKFIIAFFVATLAVMTVSGEDKKHDYQNEFDLLEMERIHEQIKK
GELALFYLQEQINHFEKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRMLQKDLDFEQY
NLEMAKKSGDILERDLKKEEARVKKIEV

>accession|CAA34486.1|Allergen Actinidain protease-like
[Actinidia deliciosa]
MGLPKSFVSMSELLFFSTLLILSLAFNAKNTQRTNDEVKAMYESWLIKYGKSYNSLGWE
RRFEIFKETLRFIDEHNADTNRSYKVLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRFGQVLPSPYVDWRSAGAVVDIKSQGECGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTGRCNGGYITDGFQFIINNGGINTENYPTAQDGEENLDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVLDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIIVKNSWDTTWGEEGYMRILRNVGAGTTCGIATMPSYPVKYNNQNHKPKYSSLINPP
AFSMSKDGPGVDDGQRYSA

>accession|CAA46782.1|Putative 2S storage protein [Brassica rapa]
MANKLFLVSATLALFFLLTNASVYRTGSEFDEHDATNPAGPFRIPKCRKEFQQAQHLKAC
QQWLHKQAMQSGGPSWTLTLDGEFDFEEDMENTQGPQQEPPLLQCCNELHQEELCVCPT

LKGASKAVKQQVRQQGQQQQMQQVISRIYQTSTHLPVRCNIRQVVICPFQKTMPPGSPY

>accession|CAA33887.1|Allergen Bet v 1 - like [Betula pendula]
MGVFNJETETTSVIPARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|CAA35691.1|Putative Beta-conglycinin, alpha subunit-
like [Glycine max]
MMRARFLLLLGLVFLASVSVSFGIAYWEKENPKHNKCLQSCNSERDSYRNQACHARNL
LKVEKEECEEGEIPRRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEHEQR
EEQEWPRKEEKRGEGKSEEEDEDEDEEQDERQFPFPRPPHQKEERNEEEDEDEEQRESE
ESEDSELRRHKNKNPFLFGSNRFETLTKNQYGRIRVLQRFNRSPQLQNLDRYRILEFNS
KPNTLLLPHADADYLIVILNGTAILSLVNDDRDSYRLQSGDALRVPSGTTYVVPNDN
NENLRLITLAIIPVKNPGRFESFFLSSTEAAQSYLQGFSRNILEASYDTKFEEINKVLFNR
EEGQQQGEQRLQESVIVEISKEQIRALSKRAKSSSRKTISSEDKPFNLRSDPIYSNKLK
KFFEITPEKNPQLRDLIFLSIVDMNEGALLLPHFNSKAIIVILVINEGDANIELVGLKEQ
QQEQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNFFAIGINAENNQRNFLA
GSQDNVISQIPSQVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSI
LRAFY

>accession|CAA26575.1|Putative Glycinin A2B1a subunit-like
[Glycine max]
MAKLVLSLCFLLLFSGCFALREQAQQNECQIQKLNALKPGNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLNARNALRRPSYTNQGPQEIYIQQNGIFGMIFPGCPSTYQEPQESQQRGRS
QRQDRHQKVRHFRFREGDLIAVPTGVAVWMMYNNEDTPVVAVSIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQGGSQSQKQKQEEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGLRVTAPAMRKPQQEEDDDDEEQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGLRKNAMF
VPHYTLNANSIIYALNGRALVQVNCNGERVFDGELQEGGVLIQVQNFVAVAKSQSDNFE
YVSFKTNDRPSIGNLAGANSLLNALPEEVIQHTFNLKSQQARQVKNNNPFSLVPPQESQ
RRAVA

>accession|CAA26723.1|Putative Glycinin-like [Glycine max]
MAKLVLVSLCFLLLFSGCCFAFSREQPQQNECQIQKLNALKPGNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLNARNALRRPSYTNQGPQEIYIQQKGFIFGMIFPGCSSTFEPPQQPQQR
GQSSRPQDRHQKIYNSREGDLIAVPTGVAVWMMYNNEDTPVVAVSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKQKQEEENEGGSILSGFTLEFLEHAFSVDKQIA
KNLQGENEGEDKGAIVTVKGLSVIKPPTDEQQQRPQEEEEEEDEKPKQCKGDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNIGQTSPPDIYNPQAGSVTTATSLDFPALS WLRLSAG
FGSLRKNAMFVPHYNLNANSIIYALNGRALIQVNCNGERVFDGELQEGRVLIQVQNFV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNPF
KFLVPPQESQKRAVA

>accession|CAA33217.1|Putative glycinin subunit G3 [Glycine max]
MAKLVLVSLCFLLLFSGCCFAFSFREQPQQNECQIQRLNALKPDNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLNARNALRRPSYTNAPQEIYIQQSGIFGMIFPGCPSTFEPPQQKQGS
SRPQDRHQKIYHFRFREGDLIAVPTGFAYWMMYNNEDTPVVAVSLIDTNSFQNLQDQMPRRFY
LAGNQEQEFLQYQPKQGGTQSQKQKQEEENEGGSILSGFAPEFLHAFVVDQIVR
KLQGENEEEEKGAIIVTVKGLSVISPPTEEQQRPEEEEEKPDCDEKDKHCQSQRNGIDE
TICTMRLRHNIGQTSPPDIFNPQAGSITTATSLDFPALS WLKLSAQFGSLRKNAMFVPHY
NLNANSIIYALNGRALVQVNCNGERVFDGELQEGQVLIQVQNFVAARSQSDNFEYVSF
KTNDRPSIGNLAGANSLLNALPEEVIQQTFLNRRQQARQVKNNNPFSLVPPKESQRRVV
A

>accession|CAA37044.1|Putative glycinin [Glycine max]
MGKPF T L S L S L C L L L L S S A C F A I S S S K L N E C Q L N N L N A L E P D H R V E F E G G L I Q T W N S Q H
P E L K C A G V T V S K L T L N R N G L H L P S Y S P Y P R M I I I A Q G K G A L Q C K P G C P E T F E E P Q E Q S N R
R G S R S Q K Q Q L Q D S H Q K I R H F N E G D V L V I P P G V P Y W T Y N T G D E P V V A I S L L D T S N F N N Q L D
Q T P R V F Y L A G N P D I E Y P E T M Q Q Q Q Q K S H G G R K Q G H Q Q E E E E E G G S V L S G F S K H F L A Q S
F N T N E D I A E K L Q S P D D E R K Q I V T V E G G L S V I S P K W Q E Q Q D E D E D E D E D E D E D E Q I P S H P P R
R P S H G K R E Q D E D E D E D E D K P R P S R P S Q G K R E Q D Q D Q D E D E D E D E D Q P R K S R E W R S K K T Q P
R R P R Q E E P R E R G C E T R N G V E E N I C T L K L H E N I A R P S R A D F Y N P K A G R I S T L N S L T L P A L R
Q F Q L S A Q Y V V L Y K N G I Y S P H W N L N A N S V I Y V T R G Q G K V R V V N C Q G N A V F D G E L R R G Q L L V
V P Q N F V V A E Q A G E Q G F E Y I V F K T H H N A V T S Y L K D V F R A I P S E V L A H S Y N L R Q S Q V S E L K Y
E G N W G P L V N P E S Q Q G S P R V K V A

>accession|CAA42646.1|Allergen Pathogenesis-related protein
[Glycine max]
M G V F T F E D E I N S P V A P A T L Y K A L V T D A D N V I P K A L D S F K S V E N V E G N G G P G T I K K I T F L E
D G E T K F V L H K I E S I D E A N L G Y S Y S V V G G A A L P D T A E K I T F D S K L V A G P N G G S A G K L T V K Y
E T K G D A E P N Q D E L K T G K A K A D A L F K A I E A Y L L A H P D Y N

>accession|CAA45777.1|Putative trypsin inhibitor subtype A
[Glycine max]
M K S T I F F A L F L F C A F T T S Y L P S A I A D F V L D N E G N P L E N G G T Y Y I L S D I T A F G G I R A A P T G
N E R C P L T V V Q S R N E L D K G I G T I I S S P Y R I R F I A E G H P L S L K F D S F A V I M L C V G I P T E W S V
V E D L P E G P A V K I G E N K D A M D G W F R L E R V S D D E F N N Y K L V F C P Q Q A E D D K C G D I G I S I D H D
D G T R R L V V S K N K P L V V Q F Q K L D K E S L A K K N H G L S R S E

>accession|CAA45778.1|Putative trypsin inhibitor subtype B
[Glycine max]
M K S T I F F A L F L F C A F T T S Y L P S A I A D F V L D N E G N P L D S G G T Y Y I L S D I T A F G G I R A A P T G
N E R C P L T V V Q S R N E L D K G I G T I I S S P F R I R F I A E G N P L R L K F D S F A V I M L C V G I P T E W S V
V E D L P E G P A V K I G E N K D A V D G W F R I E R V S D D E F N N Y K L V F C T Q Q A E D D K C G D I G I S I D H D
D G T R R L V V S K N K P L V V Q F Q K V D K E S L A K K N H G L S R S E

>accession|CAA39880.1|Allergen rubber elongation factor [Hevea
brasiliensis]
M A E D E D N Q Q G Q G E G L K Y L G F V Q D A A T Y A V T T F S N V Y L F A K D K S G P L Q P G V D I I E G P V K N V
A V P L Y N R F S Y I P N G A L K F V D S T V V A S V T I I D R S L P P I V K D A S I Q V S A I R A A P E A A R S L A
S S L P G Q T K I L A K V F Y G E N

>accession|CAA41956.1|Allergen alpha-amylase inhibitor [Hordeum
vulgare subsp. vulgare]
M A S K S S I T P L L L A A V L A S V F A A A A A T G Q Y C Y A G M G L P S N P L E G C R E Y V A Q Q T C G V T I A G S
P V S S E P G D T P K D R C C Q E L D E A P Q H C R C R V R Y F I G R R S H P D W R V L K D L P G C P K E P Q R D F A K
V L V T P G Q C N V L T V H N A P Y C L G L D I

>accession|CAA45085.1|Allergen monomeric alpha-amylase, partial
[Hordeum vulgare subsp. vulgare]
P T S V A V D Q G S M V S N S P G E W C W P G M G Y P V Y P F P R C R A L V K S Q C A G G Q V V E S I Q K D C C R Q I A
A I G D E W C I C G A L G S M R G S M Y K E L G V A L A D D K A T V A E V F P G C R T E V M D R A V A S L P A V C N Q Y
I P N T N G T D G V C Y W L S Y Y Q P P R Q M S S R

>accession|CAA46705.1|Allergen CMe [Hordeum vulgare subsp.
vulgare]
M A F K Y Q L L L S A A V M L A I L V A T A T S F G D S C A P G D A L P H N P L R A C R T Y V V S Q I C H Q G P R L L T
S D M K R R C C D E L S A I P A Y C R C E A L R I I M Q G V V T W Q G A F E G A Y F K D S P N C P R E R Q T S Y A A N L
V T P Q E C N L G T I H G S A Y C P E L Q P G Y G V V L

>accession|CAA42832.1|Putative LTP 1 [Hordeum vulgare]
MARAQVLLMAAALVLMMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNVVPTISPDIIDCSRFTERR
SVKLVLSSSIHVLEL

>accession|CAA38097.1|Allergen 2S albumin precursor [Ricinus communis]
MAKLIPTIALVSVLLFIIANASFAVRTTITITIEIDESKGEREGSSSQQCRQEVQRKDLSS
CERYLRQSSRRSPGEEVLRMPGDENQQQESQQQLQCCNQVKQVRDECQCEAIKYIAEDQ
IQQGQLHGEESEVAQRAGEIVSSCGVRCMRQTRTNPSQQGCRGQIQEQQLRQCQEYIK
QQVSGQPPRRSDNQERSLRGCCDHLKQMQSQCRCEGLRQAIEQQQSQQQLQGQDVFQAFR
TAANLPSMCGVSPTECRF

>accession|CAA31575.1|Allergen patatin B2 (AA 1 - 386) [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
LGPMYDGKYLQLQVLEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAM
YDICYSTAAAPIYFPPHVFTHTSNGARYEFNLVDGAVATVGDPAALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLVRVQENALNGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>accession|CAA27571.1|Allergen patatin [Solanum tuberosum]
MATNSFTILIFMILATTSSTFATLGEMVTVLSIDGGGIKGIIPATILEFLEGQLQEVDN
NTDARLADYFDVIGGTSTGGLLTAMITTPNETNRPFAAAKDIVPFYFEHGPKIFQSSGSI
FGPKYDGKYLQVLEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAM
YDICYSTAAAPTFFPHYFATNTSNGDKYEFNLVDGAVATVDDPALLSISVATKLAQVDP
KFASIKSLNYKQMLLLSLGTGTTSEFDKTYTAEETAKWGTARWMLVIQKMTSAASSYMTD
YYLSTAFQALDSQNNYLVRVQENALTGTTTELDDASEANMQLLVQVGEDLLKKSVDNPE
TYEEALKRFAKLLSDRKKLRANKASY

>accession|CAA27588.1|Allergen patatin [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCATLGEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
FGPRYDGKYLQVLEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAESPQLDAM
YDICYSTAAAPIYFPPHVFTHTSNGATYEFNLVDGAVATVGDPAALLSLSVATRLAQDDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLVRVQENALTGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>accession|CAA35238.1|Allergen Alpha/beta gliadin-like protein product [Triticum aestivum]
MKTFLLILALLAIVATTARIAVRVVPVQLQPQNPSQQQPQEQVPLVQQQQFPGQQQFPFPQ
QPYPQPQFPSPQQPYLQLQFPQPQLPYPQPQLPYPQPQLPYPQPQFRPQQPYPQSQPQ
YSQPQQPISQQQQQQQQQQQQKQQQQQQQILQQILQQQLIPCRDVVLQQHSIAYGSSQV
LQQSTYQLVQQQLCCQQLWQIPEQSRCAIHNVVHAIILHQQQQQQQQQQQPLSQVFSQQ
PQQQYPSGQSFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAP
VGIFGTN

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

MKTFLILALLAIVATTATTAVRVPVPQPQPQNPSQPQPQGVPLVQQQQQFPGQQQQFPPQ
QPYPQPQPFPSQQPYLQLQPFPPQPQFPPLPYPQPFPFSPQQPYQPQPQYPPQPQPIS
QQQAQQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVLVQQHNIHARSQVLLQSTYQP
LQQLCCQQLWQIPEQSRCAIHNVVHAIILHQQQRQQQPSSQVSLQQPQQQYPSGQGFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTIAPFGIFGTN

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

MKTFLILVLLAIVATTATTAVRFPVPLQLPQNPSQQQPQEQVPLVQQQQFLGQQQFPPQ
QPYPQPQPFPSQLPYLQLQPFPPQPQLPYSQPQQFRPQQPYQPQPQYSQPQPPISSQQQ
QQQQQQQQQQQQQQQQQQILQQILQQQLIPCMDVVLVQQHNIHGRSQVLLQSTYQLLQELCCQHL
WQIPEQSQCAIHNVVHAIILHQQQKQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

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

MKTFLILALVATTATTAVRVPVPLQLPKNPSQQQPQEQVPLVQQQQFPGQQQQFPPQQPY
PQPQPFPSQQPYLQLQPFPPQPQFPPLPYPQPQSFPPQQPYQPQRPMYLPQPQPISQQQ
AQQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVLVQQHNIHASSQVLLQSTYQLLQQL
CCQQLLQIPEQSRCAIHNVVHAIIMHQEQEQQQQLQQQQQQQLQQQQQQQQQQQPSSQV
SFQQPQQQYPSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

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

MKTFLV FALLAVAATS AIAQMETRCIPGLERPWQQQLPQQTFPQQPLFSQQQQQQLFP
QQPSFSQQQPPFWQQQPPFSQQQPILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSP
FPQQQQQHQQLVQQQIPVVQPSILQQLNPKCVFLQQQCSPVAMPQRLARSQMLQSSCHV
MQQQCCQQLPQIPQQSRYEAIRAI IYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQQ
SQQQLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTSVDFGV
GTGVGAY

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

MAKRLVLF AAVVIALVALTTAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVPVPPKGGSFYPGETTPLQQLQQGIFWGTS
SQTVQGYPSVTSRQGSYYPGQASPQQPGQGGQPGKQWQEPGQGGQWYYPTSLQQPGQGG
QIGKQGYPTSLQQPGQGGQIGQGGQGYPTSPQHTGQRQQPVQGGQIGQGGQPEQGG
QPGQWQGYPTSPQQLGQGGQPGWQQSGQGGQGHYPTSLQQPGQGGQGHYLASQQQPA
QGGQGHYPASQQQPGQGGQGHYPASQQQPGQGGQGHYPASQQEPGQGGQGGQIPASQQQPG
QGGQGHYPASLQQPGQGGHYPTSLQQLGQGGQIGQPGQKQQPGQGGQTGGQGGPEQEQP
GGQGGYPTSLQQPGQGGQGGQGGQGGYPTSLQQPGQGGQGHYPASLQQPGQGGQPGQ
RQQPGQGHPEQGGQPGQGGQGGYPTSPQQPGQGGQQLGQGGQGGYPTSPQQPGQGGQPGQ
GQQGHCPMSPPQTGQAQQLGQGGQIGQVQPGQGGQGGYPTSLQQPGQGGQSGQGGQSGQ
GHQPGQGGQSGQEKQGYDSYHVS AEAQASPMVAKAQQPATQLPTVCRMEGGDALSASQ

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

MKTFLV FALLALAAASAVAQISQQQQAPPFSQQQQPPFSQQQQPPFSQQQQSPFSQQQQQ
PPFAQQQQPPFSQQPPISQQQQPPFSQQQQPQFSQQQQPPYSQQQQPPYSQQQQPPFSQQ
QQPPFSQQQQPPFTQQQQQQQQQPPFTQQQQPPFSQQPPISQQQQPPFLQQQRPPFSRQ
QQIPVIHPSVLQQLNPKCVFLQQQCIPVAMQRLARSQMLQQSICHVMQQCCQQLRQIP
EQSRHESIRAI IYSIILQQQQQQQQQQQQQQGQSI IQYQQQQPQQLGQCVSQPLQQLQQQ
LGQQPQQQQLAHQIAQLEVMTSIALRILPTMCSVNVPLYETTTTSVPLGVGIGVGVY

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

>accession|CAA34709.1|Putative precursor (AA -24 to 119)
[Triticum turgidum subsp. durum]
MASKSNCVLLLLAAVLVSIFAAVAAGNEDCTPMMSTLITPLPSCRDYVEQQACRIETPGS
PYLAKQQCCGELANIPQQCRQCALRYFMGPKSRPDQSGLMELPGCPREVQMDFVRILVTP
GYCNLTTVHNTPYCLAMEESQWS

>accession|CAA39099.1|Allergen CM2 protein [Triticum turgidum
subsp. durum]
MASKSSITHLLLLAAVLVSVFAAAAATGPYCYPGMGLPSNPLEGCREYVAQQTTCGVGIVGS
PVSTEPGNTPRDRCKELYDASQHCRCCEAVRYFIGRTSDPNVSGVLKDLPGCPREPQRDFA
KVLVTPGHCVMTVHNTPYCLGLDI

>accession|CAA36063.1|Putative glutenin-like protein product
[Triticum turgidum subsp. durum]
MKTFLV FALLAVVATSTIAQMETSICIPGLERPWQEQLPPQHTLFPQQQPPFPQQQPPFS
QQQPSFLQQQPILPQLPFSQQQPVLPQQSPFSQQQLVLPQQQYQQVLQQQIPIVQPSV
LQQLNPKVFLQQQCNPVAMPQRLARSQMLQSSCHVMQQQCCQLPQIPEQSRVDVIRA
ITYSIIILQEQQQGFVQAQQQPPQQLGQGVSSQSSQQQLGQCSFQQPQQQLGQQPQQQQ
VLQGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSTTSVPPFSVGTGVGAYL

>accession|CAA44473.1|Putative LMW glutenin [Triticum turgidum
subsp. durum]
MKTFLV FALLAVVATSAIAQMDTSCICIPGLERPWQQQLPPQQTFPQQPPFSQQQQQQPFP
QQPSFSQQQPILPQGPFPQQTQPVLPQQSPFSQQQLLILPPQQQQQLPQQQISIVQPSV
LQQLNPKVFLQQQCSVAIPQRLARSQMWQQSSCHVMQQQCCQLSQIPEQSRYDAIRA
ITYSIIILQEQQQGSQQQPPQSSGQGVSSQSSQQQLGQCSFQQPQQQLGQQPQQQQVQ
QGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSTTSVPPFGV

>accession|CAA43361.1|Allergen HMW glutenin subunit 1By9
[Triticum aestivum]
MAKRLVLFATVVITLVALTAAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRPVAVSQVVRQYEQTVVPPKGGSFYPGETTPLQQLQQVIFWGTS
SQTVQGYPSVSSPQQGPYPYQASPQQPGQGGQPGKQWQELGQGGQGYPTSLHQSGQGQ
QGYYPSSLQPGQGGQIGQGGQGYPTSLQPGQGGQIGQGGQGYPTSPQHPGQRQQPG
QGGQIGQGGQLGQGRQIGQGGQSGQGGQGYPTSPQQLGQGGQPGWQQSGQGGQGYPT
SQQQPGQGGQYYPASQQQPGQGGQYYPASQQQPGQGGQYYPASQQQPGQGGQGHYLA
SQQQPGQGGQRHYPASLQPGQGGQGHYASLQPGQGGQGHYPASLQQVGGQGGQIGQLG
QRQQPGQGGQTRQGGQLEQGGQPGQGGQTRQGGQLEQGGQPGQGGQGYPTSPQQSGQGQ
QPGQSGQGGQGGYSSSLQPGQGLQGHYPASLQPGQGGHYPQRQQPGQGGQPEQGGQ
PGQGGQGYPTSPQQPGQGGQLGQGGQGYPTSPQQPGQGGQPGQGGQGHCPSTPQQTGQ
AQQPGQGGQIGVQQPGQGGQGYYPISLQSGQGGQSGQGGQGHQLGQGGQSGQEQQ
GYDNPYHVNTEQQTASPKVAVQQPATQLPIMCRMEGGDALSASQ

>accession|CAA50325.1|Allergen major allergen [Corylus avellana]
MGVFNYEATTSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLDGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEEIKGAKEMA EKLLRAVETYLLAHS AEYN

>accession|CAA50326.1|Allergen major allergen [Corylus avellana]
MGVFNYEVEVTPSVISAARLFKSYVLDGDKLIPKVAPQAITSVENVGGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLDGDKLEKVCSELKIVAAPGGGSTLKISSK

FHAKGDHEINAEEMKGAKEMA EKLLRAVETYLLAHS AEYN

>accession|CAA50327.1|Allergen major allergen [*Corylus avellana*]
MGVFNVEVETPSVIPAAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLDGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMA EKLLRAVETYLLAHS AEYN

>accession|CAA50328.1|Allergen major allergen [*Corylus avellana*]
MGVFNVEVETPSVIPAAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLDGDKLEKVCSELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMA EKLLRAVETYLLAHS AEYN

>accession|CAA23681.1|Allergen Ovalbumin-like protein [*Gallus gallus*]
MGSIAAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTR TQINKVVR F
DKLPGFGDSIEAQCGT SVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPILPEYFQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTN

>accession|CAA23711.1|Allergen Lysozyme-like protein product [*Gallus gallus*]
MRSLILVLVLCFLPLAALGKVFGRCELAAMKRHGLDNRYRGYSLGNWVCVAKFESNFNTQA
TNRNTD GSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNC AKKIVSDG
NGMSAWVAWRNRCKGTDVQAWIRGCRL

>accession|CAA43098.1|Allergen preproalbumin (serum albumin) [*Gallus gallus*]
MKWVTLISFIFLFSATS RNLRQRFARDAEHKSEIAHRYNDLKEETFKAVAMITFAQYLQR
CSYEGLSKLVKDVVDLAQKCVANEDAPECSKPLPSIILDEICQVEKLRDSYGAMADCCSK
ADPERNECFLSFKVSQPDFVQPYQRPASDVICQEYQDNRV SFLGHFIYSVARRHPFLYAP
AII SF AVDFEHALQSCCKESDVGACLDTKEIVMREKAKGVSVKQQYFCGILKQFGDRV FQ
ARQLIYLSQKYPKAPFSEVSKFVHDSIGVHKECCEGDMVECMDDMARMMSNLCSQQD VFS
GKIKDCCEKPIVERSQCIMEAEFDEKPADLPSLVEKYIEDKEVCKSFEAGHDAFMAEFVY
EYSRRHPEFSIQLIMRIAKGYESLLEKCKTDNPAECYANAQEQLNQHIKETQDVVKTNC
DLLHDHGEADFLKSILIRYTKKMPQVPTDLLLETGKKMTTIGTKCCQLGEDRRMACSEGY
LSIVIHDTCRKQETTPINDNVSQCCS QLYANRRPCFTAMGVDTKYVPPFPNDFMFSFDEK
LCSAPAEEREVEGQMKLLINLIKRPQMTEEQIKTIADGFTAMVDKCKQSDINTCFGEEG
ANLIVQSRATLGIGA

>accession|MEHB2|Putative melittin, minor - honeybee [*Apis mellifera*]
GIGAVLKVLT TGLPALISWISRKKRQQ

>accession|P23110.1|Putative Albumin-8 precursor (Methionine-rich 2S protein) (SFA8) [*Helianthus annuus*]
MARFSIVFAAAGVLLL VAMAPVSEASTTTTIIITTIIEENPYGRGRTESGCYQQMEEAEMLN
HCGMYLMKNL GERSQVSPRMREEDHKQLCCMQ LKNLDEKCMCPA IMMMLNEP MWIRMRDQ
VMSMAHNLP IECNLMSQPCQM

>accession|P04403.2|Allergen 2S sulfur-rich seed storage protein precursor (Allergen Ber e 1) [*Bertholletia excelsa*]
MAKISVAAAALLVLMALGHATAFRATVTTTTVVEEENQE ECREQMQRQQMLSHCRMYMRQQ
MEESP YQTMPRRGM EPHMSECCEQLEGMD ESCRCEGLRMMMMRMQQEEMQPRGEQMRRMM
RLAENIP SRCNLSPMRC PMGGSIAGF

>accession|P27759.1|Allergen Pollen allergen Amb a 1.1 precursor

(Antigen E) (AgE) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDLQEILPVNETRRLTTS GAYNIIDGCWRGKADW
AENRKALADCAQGF GKGT VGGKDGDIYTVTSELDDDDVANPKEGTLRF GAAQNRPLWIIFE
RDMVIRLDKEMVVNSDKTIDGRGAKVEIINAGFTLNGVKNV I IHNINMHDVKVNPGLIK
SNDGPAAPRAGSDGDAISISGSSQI WIDHCSLSKSDGLVD AKLGTTRRLTVSNLFTQHQ
FVLLFGAGDENIEDRGM LATVAFNFTFDNVDQRMPCR RHGFFQVVNNNYDKWGSYAIGGS
ASPTILSQGNRF CAPDERSKKNVLGRHG EAAAESMKWNWRTNKDVL ENGAIFVASGVDPV
LTPEQ SAGMIPAEPGESALSLTSSAGVLS CQPGAPC

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

MGIKHCCYILYFTLALVTLQPVRS AEDVEEFLPSANETRRLSLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGF AKGT YGGKHGDVYTVTSDKDDDDVANPKEGTLRF AAAQNRPLWII
FKRNMVIHLNQELVVNSDKTIDGRGVKNIVNAGL TLMNVKNII IHNINIHDIKVCPGGM
IKSNDGPPILRQQSDGDAINVAGSSQI WIDHCSLSKASDGLLDITL GSSHVTVSNCKFTQ
HQFVLLL GADDTHYQDKGMLATVAFNMF TDHVDQRMPCRFRGFFQVVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDIIKKNVLARTGTGNAESMSWNWRTDRDLENGAIFLPSGSD
PVLTPEQKAGMIPAEPGEAVLRLTSSAGVLSCHQGAPC

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

MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGF AKGT YGGKWDVYTVTSNLDDDDVANPKEGTLRF AAAQNRPLWII
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNII IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGTINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDT HVQDKGMLATVAFNMF TDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRS DKDLENGAIFVTS GSDP
VLTPEVQSAGMIPAEPGEAAIKLTSSAGVFSCHPGAPC

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

MGIKHCCYILYFTLALVTLQPVRS AEDLQILPSANETRSLTTCGT YNIIDGCWRGKAD
WAENRKALADCAQGF AKGT IGGKDGDIYTVTSELDDDDVANPKEGTLRF GAAQNRPLWII
ARDMVIRLDRELA INNDKTIDGRGAKVEIINAGFAIYNVKNII IHNIIIMHDIVVNPGLI
KSHDGPVPRKGS DGAIGISGSSQI WIDHCSLSKA VDGLIDAKHGSTHFTVSNCLFTQH
QYLLLFWDFDERGMLCTVAFNKFTDNVDQRMPLNRHGFVQVVNNNYERWGSYALGGSAGP
TILSQGNRFLASDIKKEVGRYGESAMSESINWNWRSYMDVFENGAIFVPSGVD PVLTP
QNAGMIPAEPGEAVLRLTSSAGVLS CQPGAPC

>accession|P27762.1|Allergen Pollen allergen Amb a 2 precursor
(Antigen K) (Antigen Amb a II) [Ambrosia artemisiifolia]

MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGEAHNIIDKCWRCKPD
WAENRQALGNCAQGF KATHGGKWDIYMVTS DQDDDDVNPKEGTLRF GATQDRPLWII
QRDMI IYLQEQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNV I IHNIDIHDVVRVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLSKSF DGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEP EWMWNTWNWRTQNDVLENGAIFVASGSDP
VLTAEQ NAGMMQAEPGDMVPQLTMNAGVLTCS PGAPC

>accession|P22284.1|Putative Pollen allergen KBG 31 precursor
(Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]

MDKANGAYKTALKAA SAVAPAEKFPVFQATFDKNLKEGLSGPDAVGF AKKLD AFIQTSYL
STKAAEPKEKFDL FVLSL TEVLR FMAGAVKAPPASKFPAKPAKVAAYTPAAPAGAAPKA
TTDEQK LIEKINVGFKAAVAAAAGVPAASKYKTFVATFGAASNKAF AEALSTEPKGAAVA

SSKAVLTSKLDAAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHGVKPAEEV
KAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYQSYKFIP
ALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAVVTGTATSAVGAA
TGAATAAAGGYKV

>accession|P22285.1|Putative Pollen allergen KBG 41 precursor
(Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MAVHQYTVALFLAVALVAGPAASYADVGYGAPATLATPATPAAPAAGYTPAAPAGAAPK
ATTDEQKLIKINAGFKAAVAAAAGVPAVDKYKTFVATFGTASNKAFAEALSTEPKGAAA
ASSNAVLTSKLDAAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAGEE
VKAIIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYQSYKFI
PALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAVVTATATGAVGA
ATGAVGAATGAATAAAGGYKTGAATPTAGGYKV

>accession|P22286.1|Putative Pollen allergen KBG 60 precursor
(Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MAVQKYTVALFLVALVVGPAASYADLSYGAPATPAAPAAGYTPAAPAGAAPKATTDEQK
MIEKINVGFKAAVAAAGVPAANKYKTFVATFGAASNKAFAEALSTEPKGAAVDSSKAAL
TSKLDAAAYKLAYKSAEGATPEAKYDDYVATLSEALRIIAGTLEVHGVKPAEEVKATPAG
ELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYQSYKFI PALEAAV
KQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAAATGTATAAVGAATGAATA
AAGGYKV

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

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

>accession|P20723.1|Putative RecName: Full=Enterotoxin type D;
AltName: Full=SED; Flags: Precursor [Staphylococcus aureus]
MKKFNILIALFFTSLVISPLNVKANENIDSVKEKELHKKSELSSTALNNMKHSYADKNP
IIGENKSTGDQFLENTLLYKFFFTDLINFEDLLINFNSKEMAQHFKSKNVDVYPIRYSIN
CYGGEIDRTACTYGGVTPHEGNLKERKKIPINLWINGVQKEVSLDKVQTDKKNVTVQEL
DAQARRYLQKDLKLYNNDTLGGKIQRGKIEFDSSDGSKVSVDLFDVKGDFPEKQLRIYSD
NKTLSTEHLHIDIYLYEK

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

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

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

VHSGRIVGFFSEVIGLIGNPENRPALKTLIDGLASSHKARGIEKAQFEFRASLVDYLSH
HLDWNDTMKSTWDLALNNMFFYILHALEVAQ

>accession|P12548.1|Putative Globin CTT-VIIB-3 precursor
[Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNESNASAVNSLVSKLGDHDKARGVSAAQ
FGFEFRTALVAYLSNHVSWGDNVAAAANKALDNTYAIIVPRL

>accession|P12549.1|Putative Globin CTT-VIIB-6 precursor
[Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNDSNAAAVNSLVSKLGDHDKARGVSAAQ
FGFEFRTALVAYLQANVSWGDNVAAAANKALDNTFAIVPRL

>accession|P12550.1|Putative Globin CTT-VIIB-7 precursor
[Chironomus thummi thummi]
MKFFAVLALCVVGAIASPLSADEAAIVKSSWDQVKHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTAAAFATHATRIVSFFTEVISLSGNQANLSAVYALVSKLGVHDKARGISAAQ
FGFEFRTALVSYLQAHVSWGDNVAAAANKALDNTYAVALKSLE

>accession|P02231.1|Putative Globin CTT-IIIA [Chironomus thummi
thummi]
VATPAMP SMTDAQVA AVKGDWEKIKGSGVEILYFFLNKFPGNFPMFKKLGNDLAAAKGTA
EFKDQADKIIAFLQGVIEKLGSDMGGAKALLNQLGTSHKAMGITKDQFDQFRQALTELLG
NLGFGGNIGAWNATVDLMFHVIFNALDGTPV

>accession|P02228.1|Putative Globin CTT-X [Chironomus thummi
thummi]
DPEWHTLDAHEVEQVQATWKA VSHDEVEILYTVFKAHPDIMAKFPKFAGKDLEAIKDTAD
FAVHASRIIGFFGEYVTLGSSGNQAAIRTLHLDLGVFHKTRGITKAQFGEFRETMTAYL
KGHNKWNADISHSWDDAFDKAFSVIFEVLES

>accession|P25974.1|Putative RecName: Full=Beta-conglycinin, beta
chain; Flags: Precursor [Glycine max]
MMRVRFP LLVLLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNVRI RLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLFVLSGRAILTLVNNDDRDSYNLHP
GDAQRI PAGTTYLVNPHDHQNLKIIKLAIPV NKPGRYDDFFLSSTQAQQSYLQGF SHNI
LET SFHSEFEEINRVLFGE EEEQRQ QEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLR SRNPIYSNNFGKFFEITPEKNPQLRDLDFLSSVDINEGALLLPHFN SKAIVILVIN
EGDANIELVGIKEQQKQKQEEEPLEVQRYRAELSEDDVFVIPAAYPFVNATSNLNFLA
FGINAENNQRNFLAGEKDNVVRQIERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQK
EEGSKGRKGPFP SILGALY

>accession|P24337.1|Putative RecName: Full=Hydrophobic seed
protein; Short=HPS; AltName: Allergen=Gly m 1 [Glycine max]
ALITRPSCPDL S ICLN I LGSLGTVDCCALIGGLGDIEAIVCLCIQLRALGILNLNRNL
QLILNSCGRSYPSNATCPRT

>accession|P16348.1|Allergen Aspartic protease inhibitor 11
(Cathepsin D inhibitor PDI) (Allergen Sola t 2) [Solanum
tuberosum]
ESPLPKPVLD TNGKELNPSSYRIISIGRGALGGDVYLGKSPNSDAPCPDGVFRYNSDVG
PSGTPVRFIPLSGGIFEDQLLNIQFN IATVKLCVSYTIWKVGNLNAYFR TMLLETGGTIG
QADSSYFKIVKLSNFGYNLLYCPITPPFLCPCFRDDNFCAKVGVIQNGKRRLALVNENP

LDVLFQEV

>accession|P01005.1|Allergen Ovomucoid precursor (Allergen Gal d 1) (Gal d I) [Gallus gallus]
MAMAGVFLVLSFVLCGFLPDAAFVDCSRFPNATDKEGKDVLCNKDLRPICGTDGVT
YTNDCLLCAYSIEFGTNIKEHDGECETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDKRHDGGCRKELAAVSVDCEYKPKDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLTSLSHFGKC

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

>accession|P14946.2|Allergen Pollen allergen Lol p 1 precursor (Lol p I) (Allergen R7) [Lolium perenne]
MASSSSVLLVVALFAVFLGSAHGIKAVPPGPNITAEYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKNVDKAPFNGMTGCGNTPIFKDGRCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLGSAFGSMAKKGEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

>accession|P14947.1|Allergen Pollen allergen Lol p 2-A (Lol p II-A) [Lolium perenne]
AAPVEFTVEKGSDEKNLALSIIKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGFNFRFVSEKGMNRNVFDDVVPADFKVGTTYKPE

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

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

>accession|P01502.1|Putative Melittin [Apis dorsata]
GIGAILKVLSTGLPALISWIKRKRQE

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

>accession|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]
MKLLLLLLLCLGLTLVCGHAEESSTRGNLDVAKLNGDWFVIVVANSKREKIEENGSMRVF
MQHIDVLENSLGFKFRIKENGECELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYV
MFHLINFKNGETFQLMVLYGRTKDLSSDIKEKFAKLCEAHGITRDNIIDLTKTDRCLQAR
G

>accession|P12547.2|Putative Oryzin precursor (Alkaline proteinase) (ALP) (Aspergillus proteinase B) (Aspergillopeptidase B) [Aspergillus oryzae]
MQSIKRTL LLLLGAILPAVLGAPVQETRRAAEKLPKGYIVTFKPGIDEAKIQEHTTWTATNI
HQRSLERRGATGGDLPVGIERNYKINKFAAYAGSFDDATIEEIRKNEDVAYVEEDQIYYL
DGLTTQKSAPWGLGSI SHKQQSTDYIYDTSAGEGTYAYVVDSGVNVDHEEFEGRASKAY
NAAGGQHVDSIGHGTHVSGTIAGKTYGI AKKASILSVKVFQGESSTSVILDGFNWAAND
IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQGVLSVVAAGNENS DAGQTSPASAPDA
ITVAAIQKSNRASFSNFGKVVDVFAPGQDILSAWIGSSSATNTISGTSMATPHIVGLSL
YLAALENLDGPAAVTKRIKELATKDVVKDKGSPNLLAYNGNA

>accession|P01012.2|Allergen Ovalbumin (Plakalbumin) (Allergen Gal d 2) (Gal d II) [Gallus gallus]
MGSIGAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVR
DKLPGFGDSIEAQCGT SVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPI LPEYLO
CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIV
FKGLWEKAFKDED TQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFASGTM
SMLVLLPDEVSGLEQLESII NFEKLT EWTSSNVMEERKIKVYLPRMKMEEKYNLTSV LMA
MGITDVFSSANLSGISSAESL KISQAVHAAHAEINEAGREVVGS AEAGVDAASVSEEFR
ADHPFLFCIKHIATNAVLFFGRCVSP

>accession|P22895.1|Putative P34 probable thiol protease precursor [Glycine max]
MGFLVLLL FSLGLSSSSSISTHRSILDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNSNYIRDMNANRKS PHSRLGLNKFADITPQEF SKKYLQAPKDV SQQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESEGSYNGWQYQSF EWVLEHGGIATDDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPI SVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGV DYWIAKNSWGF DWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>accession|P00784.1|Allergen Papain precursor (Papaya proteinase I) (PPI) (Allergen Car p 1) [Carica papaya]
MAMIPSISKLLFVAICLFVYMGLSFGDFSIVGYSQNDLTSTERLIQLFESWMLKHNKIYK
NIDEKIYRFEIFKDNLKYIDETNKKNSYWLGLNVFADMSNDEFKEKYTGSIAGNYTTTE
LSYEEVLNDGDVNIPEYVDWRQKGAVTPVKNOGSCGSCWAFSAVV TIEGIKIRTGNLNE
YSEQELLD CDRRSYGCNGGYPWSALQLVAQYGIHYRNTYPYEGVQRYCRSREKGPYAAKT
DGVRQVQPYNEGALLYSIANQPVSVVLEAAGKDFQLYRGGIFVGP CGNKVDHAVA AVGYG
PNYILIKNSWGTGWGENGYIRIKRGTGNSYGVCGLYTSSFY PVKN

>accession|P02622.1|Allergen Parvalbumin beta (Allergen Gad c 1) (Gad c I) (Allergen M) [Gadus callarias]
AFKGILSNADIKAAEAACFKEGSFDEDFYAKVGLDAFSADELK KLFKIADEDKEGFIEE
DELKLF LIAFAADLRAL TDAETKAF LKAGDS DGDGKIGVDEF GALVDK WGAKG

>accession|P02620.1|Putative RecName: Full=Parvalbumin beta [Merluccius merluccius]
AFAGILADADITAALAACKAEGSFKHGEFFTKIGLKGSAADIKKVF GIIDQDKSDFVEE
DELKLF LQNF SAGARAL TDAETATFLKAGDS DGDGKIGVEEFAAMVKG

>accession|P05946.1|Putative RecName: Full=Sarcoplasmic calcium-binding protein 1; AltName: Full=Sarcoplasmic calcium-binding protein I; Short=SCP I [Pontastacus leptodactylus]
AYSWDNRVKYVVRMYDIDNNGFLDKNDFECLALRNTLIEGRGEFNEAAYANNQKIMS NL
WNEIAELADFNKDG EVTIDEFKKAVQNV CVGKAFATFPAAFKVFI ANQFKTV DVNGDGLV

GVDEYRLDCISRSAFANIKEIDDAYNKLATDADKKAGGISLARYQELYAQFISNPDESAN
AVYLFGLPLKEVQ

>accession|P00780.1|Allergen RecName: Full=Subtilisin Carlsberg;
Flags: Precursor [Bacillus licheniformis]
MMRKKSFWLGMLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNDPDAVAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNHGHGTHVAGTVAALD
NTTGVGLGVAPSVSLYAVKVLNSSSGSTYSGIVSGIEWATTNGMDVINMSLGGPSGSTAMK
QAVDNAYARGVVVAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTSTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFFYYGKGLINVEAAAQ

>accession|P27357.1|Putative RecName: Full=Thaumatococcus-like protein
PWIR2; Flags: Precursor [Triticum aestivum]
MATSPVLFLLAVFAAGASAATFNKNNCGFTIWPAGIPVGGGFALGSGQTSSINVPAGT
QAGRIWARTGCSFNGSGSCQTGDCGGQLSCSLSGRPPATLAEYTIIGGGSTQDFYDISVI
DGFNLAMDFSCSTGDALQCRDPSCPPPQAYQHPNDVATHACSGMNNYQITFCP

>accession|P06886.1|Allergen RecName: Full=Toxic shock syndrome
toxin-1; Short=TSST-1; Flags: Precursor [Staphylococcus aureus]
MNKLLMNFIVSPLLLATTATDFTPVPLSSNQI IKTAKASTNDNIKDLLLDWYSSGSDTF
TNSEVLDNSLGS MR IKNTDGSISLIIFSPYYPSPAFKGEKVDLNTKRTKKSQHTSEGTY
IHFQISGVTNTEKLPPIELPLKVKVHGKDSPLKYGPKFDKKQLAISTLDFEIRHQLTQI
HGLYRSSDKTGGYWKITMNDGSTYQSDLSKKFEYNTEKPPINIDEIKTIEAEIN

>accession|AAA28301.1|Allergen antigen 5 precursor
[Dolichovespula maculata]
MEIGGLVYLILIIITIINLSFGETNNYCKIKCRKGIHTLCKFGTSMKPNCGRNVVKAYGLT
NDEKNEILKRHNDFRQNVAKGLETRGKPGPQPPAKNMNVLVWVNDLAKIAQTWANQCDFN
HDDCRNTAKYQVGQNIASSTTATQFDRPSKLIKQWEDEVTEFNYKVGLQNSNFRKVGHY
TQMVGKTKKEIGCGSIKYEIDNWyTHYLVCNYGPGGNDNFNQPIYERK

>accession|AAA28303.1|Allergen allergen 5 [Dolichovespula
arenaria]
NNYCKICPKGTHTLCKYGTSMKPNCGGKIVKSYGVTNDEKNEIVKRHNEFRQKVAQGLET
RGNPGPQPPAKNMNLLVWVNDLAKIAQTWANQCNFGHDQCRNTAKYPVGQNVIASTTGN
SYQTM SYLIKMWEDVKDYNPHKDLMHNNFSKVGHYTQMVGKTKKEIGCGSVKYIENKWH
THYLVCNYGPAGNYMNPVYERK

>accession|AAA29793.1|Allergen allergen 5 [Polistes annularis]
SSQGV DYCKIKCPSGIHTVQCQYGESTKPSKNCAGKVIKSVGPTEEEKKLIVSEHNFRQK
VAQGLETRGNPGPQPAASDMNDLVWVNDLAKIAQVWASQCQFLVHDKCRNTAKYPVGQNI
AYAGGSNLPDVVSLIKLWENEVDFNYNTGITKQNF AKIGHYTQMVGKTKKEIGCGSLKY
MENNMQNHYLICNYGPAGNYLGQLPYTKK

>accession|AAA30333.1|Allergen allergen 5 [Vespula vulgaris]
MEISGLVYLIIIVTIIDLPYKANNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKIARGLETRGNPGPQPPAKNMNVLVWVNDLAKIAQVWASQCQY
HDTCDRVAKYQVGQNVALTGSTAAKYDDPVKLVKMWEDVKDYNPKKFFSGNDFLKTGHY
TQMVGKTKKEIGCGSVKYIENKWH
THYLVCNYGPAGNYMNPVYERK

>accession|AAA51411.1|Allergen albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRGVFRDTHKSEIAHRFKDLGEEHFKGLVLIAFSQQYQQCPF
DEHVKLVLNELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCEKQEP

ERNECFLSHKDDSPDLPKLKPDPNTLTCDEFKADKFKFWGKYLVEIARRHPYFYAPELLYY
ANKYNGVFQECCQAEDKGACLLPKIETMREKVLASSARQRLRCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLCADDRADLAKYICDNQDTISSKLKE
CCDKPLLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLEECCAADDPHACYSTVFDKCLKHLVDEPQNLIKQNCQDFEK
LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESEMPCTEDYLSLIL
NRLCVLHEKTPVSEKVTCCCTESLVNRRPCFSALTPDETYVPKAFDEKLFTHADICTLP
DTEKQIKQTALVELLKHKPKATEEQKTKVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQTALA

>accession|AAA62707.1|Allergen alpha-s1-casein [Bos taurus]
PQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
VPLGTQYTDAPSFSDIPNPIGLENSEKTTMPLW

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

>accession|AAA30429.1|Allergen alpha-S1-casein [Bos taurus]
MKLLILTCLVAVALARPKHPIKHQGLPQEVNLNENLLRFFVALFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYK
VPQLEIVPNSAEERLHSMKEGIDAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTISLW

>accession|AAA30430.1|Allergen beta-casein precursor [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHFAQTQSLVYPPFGPIPNLQNIPLTQTPVVVPPFLQPEVLGVSKVKEAMAPK
HKEMPFKYPVEPFTEQSLSLTLTDVENLHLPPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPPQKAVPYPQRDMPIQAFLLYQPPVLPVVRGPFPIIV

>accession|AAA30431.1|Allergen beta-casein [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHFAQTQSLVYPPFGPIHNSLPQNIPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
HKEMPFKYPVEPFTEQSLSLTLTDVENLHLPPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPPQKAVPYPQRDMPIQAFLLYQPEVLPVVRGPFPIIV

>accession|AAA30433.1|Allergen kappa-casein precursor [Bos
taurus]
MMKSFFLVVTILALTLPLFLGAQEONQEPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYG
LNYYQQKPVALLINQFLPYPYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKNQDKTEIPTINTIASGEPTSTPTIEAVESTVATLEASPEVTEPPEI
NTVQVTSTAV

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

>accession|AAA30615.1|Allergen alpha-lactalbumin precursor
protein [Bos taurus]
MMSFVSLLLVILFPHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTTFHTSGYDTQAI
VQNNSTEYGLFQINNKIWCKDDQNPSSNICNISCDKFLDDDLTDDIMCVKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>accession|AAC41616.1|Allergen major allergen I [Felis catus]
MRGALLVLALLVTQALGVKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMK
KIQCXYVENGLISRVLGGLVMTTISSSKDCMGEAVQNTVEDLKLNTLGR

>accession|AAC37318.1|Allergen major allergen I [Felis catus]
MKGARVLVLLWAALLLIWGGNCEICPAVKRDVDLFLTGTTPDEYVEQVAQYKALPVLVLENA
RILKNCVDAKMTEEDKENALSLLDKIYTSPLC

>accession|AAA32629.1|Allergen actinidin [Actinidia deliciosa]
MGLPKSFVMSLLFFSTLLILSLAFNAKNTLQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFAIATVEGINKIVTGVLIISLSEQELI
DCGRTQNTGRGNGGYITDGFQFIINNGGINTEENYPYTAQDGECONVELQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKQYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNYPEPYSSLINPP
AFSMSKDGVPVGEDGQRYSA

>accession|AAA32669.1|Allergen antigen E [Ambrosia
artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVTSNLDDDDVANPKEGTLRFAAAQNRPLWIIFF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNI I IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDITINVAGSSQIWDHCSLSKSFDFGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMF'DNVDQRMPCRFRGFFQVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSKDKLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVFSRPGAPC

>accession|AAA32708.1|Allergen Taka-amylase A (Taa-G1) precursor
[Aspergillus oryzae]
MMVAWWSLFLYGLQVAAPALAAATPADWRSQSIYFLLTDRFARTDGGSTTATCNTADQKYCG
GTWQGIIDKLDYIQMGFTAIIWITPVTAQLPQTTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCLIQNYEDQT
QVEDCWLGDNTVSLPDLDTTKDVVKNEWYDWVGSLSVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPYIYPLLNFAFKSTSGSMHDLYNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIPYIYAGQEQHYAGGN
DPANREATWASGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSSGAGYTAGQQLTEVIGCTTVTVGSDGNVPPMAGGL
PRVLYPTEKLAGSKICSSS

>accession|AAA16522.1|Allergen profilin [Betula pendula]
MSWQTYVDEHLMCDIDGQASNSLASAIVGHGDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEPPVTPGQCNMV
VERLGDYLIDQGL

>accession|AAA32970.1|Putative amylase/protease inhibitor
[Hordeum vulgare]
MARAQVLLMAAALVLMMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNPYITISPDIDCSRIY

>accession|AAA63278.1|Allergen pollen allergen [Lolium perenne]
ALFAVFLGSAHGIKAVPPGNITAEYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVK
APFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNEEPIAPYHFDLS
GHAFGSMAKKGEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKGSNPNYLAILVKYVD
GDGDVVAVDIKEKGDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEGGTKSEVEDVIP
EGWKADTSYSAK

>accession|AAA63279.1|Allergen pollen allergen [Lolium perenne]
MASSSSVLLVVALFAVFLGSAHGIKAVPPGNITAEYGDKWLDAKSTWYGKPTGAGPKDN

GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQNVR SAGELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWTELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

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

>accession|AAA33494.1|Putative phospholipid transfer protein,
partial [Zea mays]
SCGQVASAIAPCISYARGQGSGPSAGCCSGVRSLSLNAARTTADRRAACNCLKNAAAGVSG
LNAGNAASIPSKCGVSIPYTISTSTDCSRYSRRMHASAD

>accession|AAA33819.1|Allergen patatin [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPF AAADKDIVPFYFEHGHPIFNYSGSI
IGPMYDGKYLQLVLEKLGETR VHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPPHYFITHTSNGDIYEFNLVDGGVATVGD PALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAQEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYL RVQENAL TGTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASY

>accession|AAA33947.1|Putative beta-conglycinin-alpha subunit
[Glycine max]
SKRAKSSSRKTISSSEDKPFNLGSRDPIYSKKGKFFFEITPEKNPQLRDLIDIFLSIVDMNE
GALLLPHFNASKAIVILVINEGDANIELVGLKEQQQEQQQEEQPLEVRKYRAELSEQDIFV
IPAGYPVVVNATSNLNFFAIGINAENNQRNFLAGSQDNVISQIPSQVQELAFPGSAQAVE
KLLKNQRESYFVDAQPNEKEEGNKGRKGPLSSILRAFY

>accession|AAB01374.1|Putative beta-conglycinin storage protein
[Glycine max]
MMRARFPLLLLGVVFLASVSVSFGIAYWEKQNP SHNKCLRSCNSEKDSYRNQACHARNL
LKVEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPFPRPRQPHQEEEEHEQK
EEHEWHRKEEKHGGKGESEEEQDEREHPRPHQPHQKEEEKHEWQHKQEKHQKGESEEEEEED
QDEDEEQDKESQSESEGESQREPRRHKNKNPFHFNSKRFTL FKNQYGHVRVLQRFNKR
QQQLQNLRDYRILEFN SKPNTLLLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA
LRVPAGTTFYVVNPDNDENLRMIAGTTFYVVNPDNDENLRMITLAIPVKNKGRFESFFLS
STQAQQSYLQGF SKNILEASYDTKFEEINKVLF GREEGQQQGEERLQESVIVEISKKQIR
ELSKHAKSSSRKTISSSEDKPFNLGSRDPIYSNKLGLFEITQRNPQLRDLVFLSVVDMN
EGALFLPHFNASKAIVVLVINEGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIF
VIPAGYPVMVNATSDLNFFAFGINAENNQRNFLAGSKDNVISQIPSQVQELAFPRSAKDI
ENLIKQSQSESYFVDAQPQQKEEGNKGRKGPLSSILRAFY

>accession|AAA33964.1|Putative glycinin [Glycine max]
MGKPFFTLSLSSLCLLLSSACFAITSSKFNECQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGSHLPSYLPYPQMIIVVQKGGAIGFAFPGCPETFEK PQQQS
SRRGSRSQQLQDSHQKIRHFNEGDVLVIPLGV PYWYNTGDEPVVAISPLDTSNFFNNQL
DQNPRVFYLAGNPDIEHPETMQQQQQKSHGGRKQGQHRQQE EGGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDERKQIVTVEGGLSVISPKWQE QEDED EDEEYGRTPSYPPRRP
SHGKHEDDEDEDEEEDQRPDPHPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVL YRNGIYSPDWNLNANSVTMTRG
KGRVRV VNCQGNVFDGELRRGQLLVVPQNPAVAEQGGEQGLE YVVFKTHHNAVSSYIKD
VFRVIPSEVLNSYNL GQSQVRQLKYQNSGPLVNP

>accession|AAA33965.1|Putative glycinin precursor [Glycine max]
QEDEDEDEDEEYEQTPSYPPRRPSHGKHEDDEDEDEEHQPRPDHPPQRPSRPEQQEPRG
RGCQTRNGVEENICTMKLHENIARPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYLV
LYRNGIYSPHWNLNANSVIYVTRGKGRVRVVCQGNPVFDGDLTRGQLLLVPQNFVVADQ
GGKQGLEYYVFKTQHNAVSSYIKDLFRAIPSEVLNSNSYNLQSQVRLKYQGNLPLLN

>accession|AAA33966.1|Putative glycinin A-1a-B-x subunit [Glycine max]
MAKLVFSLCFLFLFSGCCFAFSSREQPQNECQIQKLNALKPDNRIESEGLIETWNPNNK
PFQCAGVALSRCTLNARNALRRPSYTNQPEIYIQQKGIKGMIFGMIYPGCPSTFEFPQQPQQR
GQSSRPQDRHQKIYNFREGDLIAVPTGVAVWMMYNNEDTPVAVSIIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKQKQEQEENEGGSILSGFTLEFLEHAFSVDKQIA
KNLQGENEGEDKGAIIVTVKGLSVIKPPTDEQQQRPQEEEEEEEEDEKPKQCKGDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNIQTSSPDIYNPQAGSVTTATSLDFPALSWLRLSAE
FGSLRKNAMFVPHYNLNANSIIYALNGRALIQVVCNNGERVFDGELQEGRVLIVPQNFVV
AARSQSDNFYVVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNPF
KFLVPPQESQKRAVA

>accession|AAA34272.1|Allergen gamma gliadin precursor [Triticum aestivum]
MKTLLILITILAMATTIATANMQVDPSPGQVQWPQQQPFPPQPPQPFQPPQRTIPQPHQTFH
HQPQQTFPQQPQTYPHQPPQQFPQTQQPQQPFPPQPPQTFPQQPQLPFPQQPQQPFPPQQ
PQQPFPPQSQQPQQPFPPQPPQQFPQPQQPQQSFPQQQPAIQSFLQQQMNPCKNFLLQQCN
HVSLVSSLSVSIILPRSDCQVMQQCCQQLAQIPQQQLQCAAIHNSVAHSIIMQQEQQQGVPI
LRPLFQLAQGLGIIQPQQPAQLEGIRSLVLKTLPTMCNVYVPPDCSTINVPYANIDAGIG
GQ

>accession|AAA34274.1|Allergen gamma-gliadin B precursor [Triticum aestivum]
MKTLLILITILAMAITIATANMQADPSGQVQWPQQQPFLLQPHQPFSSQQPQQIFPPQPPQTFP
HQPQQQFPQPQQPQQQFLQPRQPFPPQQPQQPYPPQQPQQPFPPQTQQPQQPFPPQSKQPQQPF
PQPQQPQQSFPQQQPSLIQQSLQQQLNPKCNFLLQQCKPVSLSVSSLSIILPPSDCQVMR
QQCCQQLAQIPQQQLQCAAIHNSVHHSIIMQQEQQQEQQLQGVQILVPLSQQQQVGGQILVQGG
GIIQPQQPAQLEVIRSLVLQTLPTMCNVYVPPYPCSTIRAPFASIVASIGGQ

>accession|AAA34275.1|Allergen alpha-type gliadin precursor protein [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVPVQLQPNPSQQQPQEQVPLVQQQQFPGQQQFPPQ
QPYPQPQPFPSQQPYLQLQPFPPQPPPLPYPPQPSFPPQQPYPPQQPQYLQPPQPISSQ
QQAQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSQCQAIHNVHAHAIIMHQQQQQQQEQKQQQLQQQQQQQQQLQQQQQQQQQQ
PSSQVSFQQPQQQYPSQVSFQPSQLNPQAQGSVQPPQLPQFAEIRNLALQTLPAMCNVY
IPPHCSTTIAPFGISGTN

>accession|AAA34276.1|Allergen pre-alpha-/beta-gliadin A-II [Triticum aestivum]
MKTFFILALLAIVATTATTAVRVPVQLQLQPNPSQQQPQEQVPLVQEQQFQGGQQPFPQ
QPYPQPQPFPSQQPYLQLQPFPPQPPPLPYPPQPSFPPQQPYPPQQPQYSQPQQPISQQQQ
QQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIHAGSSQVLQESTYQLVQQLCCQQLWQI
PEQSRCQAIHNVVHAIILHQHHHHQQQQQQQQQQPLSQVSFQQPQQQYPSGQGFQPSQ
QNPQAQGSFQPPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>accession|AAA34279.1|Allergen alpha/beta-gliadin precursor [Triticum aestivum]

MKTFLILALVATTATTAVRVPVPLQPKNPSQQQPQEQVPLVQQQFPGQQQFPPQQPY
PQPQPFPSQQPYLQLQFPFPQPFPLPQLPYPQPQSFPPQQPYPQQRPKYLQPPQISQQQ
AQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIAHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSRCQAIHNVVHAIIMHQEQEQQQQLQQQQQQQLQQQQQQQQQQQPSSQV
SFQQPQQQYPSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>accession|AAA34280.1|Allergen alpha/beta-gliadin precursor
[Triticum aestivum]

MKTFLILVLLAIVATTATTAVRFPVPLQPNPSQQQPQEQVPLVQQQFLGQQQFPPQ
QPYQPQPFPSQLPYLQLQFPFPQPLPYSQPQPFPPQQPYPQPQYSPQPPISQQQQQ
QQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIAHGRSQVLQQSTYQLLQELCCQHL
WQIPEQSQCQAIHNVVHAIILHQQQKQQQQPSSQVVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>accession|AAA34281.1|Allergen pre-alpha-/beta-gliadin A-I
[Triticum aestivum]

MKTFLILALLAIVATTATTAVRVPVPLQPNPSQQQPQEQVPLVQQQFLGQQQFPPQ
QPYQPQPFPSQQPYLQLQFPFPQPLPYSQPQPFPPQQPYPQPQYSPQPPISQQQQQ
QQQQQQQQQQQQQIIQQILQQQLIPCMDVVLQQHNIVHGKSQVLQQSTYQLLQELCCQH
LWQIPEQSQCQAIHNVVHAIILHQQQKQQQQPSSQVVSFQQPLQQYPLGQGSFRPSQQNPQ
AQGSVQPQQLPQFEEIRNLARK

>accession|AAA34282.1|Allergen pre-alpha-/beta-gliadin A-IV
[Triticum aestivum]

MKTFLILALRAIVATTATIARVPVPLQPNPSQQQPQKQVPLVQQQFPGQQQFPPQ
QPYPQQQPFPSQQPYMQLQFPFPQPLPYPQPQPLPYPQPQPFPPQQSYPPQPQYSPQPP
ISQQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHSIAHGSSQVLQQSTYQLVQQFC
CQQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQQQQQQQQPLSQVCFQQSQQQYPSGQG
SFQPSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPVGIFGTN

>accession|AAA34283.1|Allergen pre-alpha-/beta-gliadin A-III
[Triticum aestivum]

MKTFLILALLAIVATTATSARVPVPLQPNPSQQQPQEQVPLMQQQQQFPGQQEQFP
QQPYPHQQPFPSQQPYPQPQPFPPQLPYPQTQPFPPQQPYPQPQYSPQPPISQQQAQ
QQQQQQQTLLQILQQQLIPCRDVVLQQHNIAHASSQVLQQSSYQLLQQLCCQQLFQIPEQ
SRCQAIHNVVHAIILHHHQQQQQPSSQVSYQQPQEQYPSGQVVSFQSSQQNPQAQGSVQP
QQLPQFQEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>accession|AAA34284.1|Allergen alpha-type gliadin [Triticum
aestivum]

PQPQPYSPQPPISQQQQQQQQQQQQQQEQQILQQILQQQLIPCMDVVLQQHNIAHGR
SQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIHNVVHAIILHQQQKQQQQPSSQFSFQQ
PLQQYPLGQGSFRPSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPF
GIFGTN

>accession|AAA34285.1|Putative pre-gamma-gliadin B-I [Triticum
aestivum]

MKTFLVFAIAVVATSAIAQMETSCISGLERPWQQQLPQQSFSQQPPFSQQQQQLPQ
QPSFSQQQPPFSQQQPILSQPPFSQQQQPVLPPQQSPFSQQQLVLPQQQQQQLVQQQI
PIVQPSVLQQLNPKVFLQQQCSPVAMPQRLARSQMWQQSSCHVMQQQCCQQLQIPEQS
RYEAIRAIIYSIILQEQQQGFVQPQQQQPQQSGQGVSSQSSQQQLGQCSFQQPQQQLG
QQPQQQQQQVLQGTFLQPHQIAHLEAVTSIALRTLPTMCSVNVPLYSATTSVPFGVGTG
VGAY

>accession|AAA34286.1|Putative gamma-gliadin [Triticum aestivum]
TITRTRFPIPTISSNNNHFRSNSNHFFHSNNNQFYRNNNSPGHNNPLNNNNNSPNNNSPSN
HHNNSPNNNFQYHHTHPSNHKNLPHTNNIQQQQPPFSQQQQPPFSQQQQPVLPQQSPFSQQ
QQLVLPQQQQQQQLVQQQIPIVQPSVLQQLNPCVKVFLQQQCSPVAMPQRLARSQMWQQSS
CHVMQQQCCQQLQQIPEQSRYEAIRAIIYSIILQEQQQGFVQPQQQQPQQSGQVVSQSQ
QSQQQLGQCSFQQPQQQLGQQPQQQQQQQVLQGTFLQPHQIAHLEAVTSIALRTLPTMCS
VNVPLYSATTSVPPFGVGTGVGAY

>accession|AAA34287.1|Putative gamma gliadin B-III [Triticum
aestivum]
PQQPFPLQPQQSFLWQSQQPFLQQPQQPSPQPQQVQIISPATPTTIPSAGKPTSAPFPQ
QQQQHQQLAQQQIPVVQPSILQQLNPCVKVFLQQQCSPVAMPQRLARSQMLQQSSCHVMQQ
QCCQQLPQIPQQSRYQAIRAIIYSIILQEQQVQGSIQSQQQQPQQLGQCVSQPQQQSQQ
QLGQQPQQQQLAQGTFLQPHQIAQLVMTSIALRILPTMCSVNVPLYRTTTSVPPFGVGTG
VGAY

>accession|AAA34288.1|Allergen gamma-gliadin [Triticum aestivum]
MKTLILLITILAMAITIGTANMQVDPSSQVQWPQQQPVPQPHQPFSSQQPQQTFPQPQQTFP
HQPQQQFPQPQQPQQQFLQPQQPFPQQPQQPYPQQPQQPFPQTQQPQQLFPPQSQQPQQQF
SQPQQQFPQPQQPQQSFPQQQPPFIQPSLQQQVNPCKNFLLOQCKPVSLVSSLWSMIWPQ
SDCQVMRQQCCQQLAQIPQQQLQCAAIHTIIHSIIMQQEQQEQQQGMHILLPLYQQQQVGG
GTLVQGQGIIO

>accession|AAA34289.1|Allergen gamma-gliadin [Triticum aestivum]
MKTLILLITILAMAITIGTANIQVDPSPGQVQWLQQQLVPLQLOQPLSQQPQQTFPQPQQTFP
HQPQQQVPQPQQPQQPFLQPQQPFPQQPQQPFPQTQQPQQPFPQQPQQPFPQTQQPQQP
PQQPQQPFPQTQQPQQPFPQLQQPQQPFPQPQQQLPQPQQPQQSFPQQQRPFIQPSLQQ
LNPCKNILLQQSKPASLVSSLWSIIWPQSDCQVMRQQCCQQLAQIPQQQLQCAAIHVSVHS
IIMQQQQQQQQQGGIDIFLPLSQHEQVGGSLVQGGGIIQPQQPAQLEAIRSLVLQTLPS
MCNVYVPECSIMRAPFASIVAGIGGQ

>accession|AAA34290.1|Allergen gliadin [Triticum urartu]
MKTFLLILALLAIVATTATTAVRVPVPQPQPQNPSPQPPQRQVPLVQQQQFPGQQQQFPPQ
QPYPQPQPFPSSQQPYLQLQPFPPQPFPFPQLPYPQPPFPSPQQPYPQPQPYPQPQQPIS
QQQAQQQQQQQQQQQQQQQQQQILPQILQQQLIPCRDVVLQQHNAHARSQVLQQSTYQP
LQQLCCQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQPSSQVSLQQPQQQYPSGGQFFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTTAPFGIFGTN

>accession|AAB02788.1|Allergen HMW glutenin subunit Ax2*
[Triticum aestivum]
MTKRLVLFAAVVVALVALTAAEGEASGQLQCERELQEHSKACRQVVDQQLRDVSPQCQP
VGGGPVARQYEQVQVVPKGGSFYPPGETTPPQQQLQQSILWGIPALLRRYYLSVTSPQQVS
YYPGQASSQRPGQGQEQEYLLTSPQQSGQWQQPGQGQSGYYPTSPQQSGQKQPGYYPTSPW
QPEQLQQPTQGQQRQQPGQGQQLRQGQQGQQSGQGQPRYYPTSSQQPGQLQQLAQGGQ
QPERGQQGQQSGQGQQLGQGQQGQQPGQKQSGQGQGGYYPISPPQLGQGQQSGQGQLGY
YPTSPQQSGQGQSGYYPTSAQQPGQLQOSTQEQLGQEQDQSGQGRQGQQSGQRQQDQ
QSGQGQQPGQRQPGYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQGQQGQQPE
QGQQGQQQRQGEQGGQPGQGQQGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQ
QPAQGGQPGQEQQGQQPGQGQQPGQGQPGYYPTSPQQSGQEQQLEQWQQSGQGQPGHYPT
SPLQPGQGQPGYYPTSPQQIGQGQQPGQLQQPTQGQQGQQPGQGQQGQQPGEGQQGQQPG
QGQQPGQGQPGYYPTSLQQSGQGQQPGQWQQPGQGQPGYYPTSSLQPEQGQQGYYPTSSQ
QPGQGPQPGQWQQSGQGQQGYYPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQG
QQPRQWLQPRQGQQGYYPTSPQQSGQGQQLGQGQQGYYPTSPQQSGQGQQGYDPSYHVSA
EHQAASLKVAKAQQQLAAQLPAMCRLEGGDALLASQ

>accession|AAA39768.1|Allergen major urinary protein II [Mus musculus domesticus]
MKMLLLLCLGLTLVVCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRFLFL
EQIHVLEKSLVLKFHTVVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLIN EKDGETFQLMGLYGREPDLSSDIKERFAKLCEEHGILRENIIDLSNANRCLQARE

>accession|AAA41198.1|Putative alpha-2u globulin precursor(),
partial [Rattus norvegicus]
LLLLCLGLTLVCGHAEASSTSGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVFMQHI
DVL ENSLGFKFRIKENGE CRELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYVMFHL
INFKNGETFQLMVLYGR TKDLSSDIKEKFAKLCEAHGITRDNIIDLT KTDRCLQARG

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

>accession|BAA01239.1|Allergen mite allergen Der f II precursor,
partial [Dermatophagoides farinae]
SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPF TLEALFDANQNTKTAK
IEIKASLDGLEIDVPGIDTNACHFVKCPLVKGQQYDIKYTWNV PKIAPKSENVVVTVKLI
GDNGVLACAIATHGKIRD

>accession|BAA01240.1|Allergen mite allergen Der f II precursor
[Dermatophagoides farinae]
MISKILCL SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPF TLEALFDA
NQN TKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDIKYTWNV PKIAPKSEN
VVVTVKLIGDNGVLACAIATHGKIRD

>accession|BAA01241.1|Allergen mite allergen Der f II precursor
[Dermatophagoides farinae]
SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPF TLEALFDANQNTKTAK
IEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNV PKIAPKSENVVVTVKLV
GDNGVLACAIATHAKIRD

>accession|BAA01998.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
MASNKVVF SALLLIIVSVLAATTRMADH HKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVGTRSPGAVDEQLAQDCCRELA AVDDSWCRCSALNHMVGGIYRELGATDVGHPMAEV
FPGCRRGDLERAAASLP AFCNV DIPNGTGGV CYWLGYPRTPTGH

>accession|BAA01996.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
MASNKVVF SVLLLAVVSVLAATATMAEYHHQDQVVYTRARCQPGMGYPMYSLPRCRAVVK
RQCRGSAAA AEQVRRDCCRQLAAVDDSWCRCEAI SHMLGGIYRELGAPDVGHMSEVFRG
CRRGDLERAAASLP AFCNV DIPNGGGGV CYWLARSY

>accession|BAA00154.1|Putative glycinin A2B1a subunit [Glycine
max]
MAKLVLSL C FLLFSGCFALREQAQQNECQIQKLNAL KPDNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLNRNALRRPSYTN GPQEIYIQQNGIFGMIFPGCPSTYQEPQESQQRGRS
QRPQDRHQKVHRFREGDLIAVPTGVAWMMYNNEDTPVAVSII DTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQQGGSSQSQK GKQEEENE GSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEDSGAIVTVKGLRVTAPAMRKPQQEEDDDDEE EQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGLSRKNAMF
VPHYTLNANSIIYALN GRALVQVVNCNGERVFDGELQEGGVLI VPQNF AVAAKSQSDNFE
YVSFKTNDRPSIGNLAGANSLLNALPEEVIQHTFNLKSQQARQVKNNNPF SFLVPPQESQ

RRAVA

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

MSYATKIHARYVYDSRGNPTVEVDFTTDDKGLFRSIVPSGASTGVHEALELRDGDKSKWLG
KGVLKAVANVNDIIAPALIKAKIDVVDQAKIDEFLSLDGTTPNKSCLGANAILGVSLAAA
NAAAAAQGIPLYKHIANISNAKKGKFVLPVFPQNVLNGGSHAGGALAFQEFMIAPTGVST
FSEALRIGSEVYHNLKSLTKKKYQSQAGNVGDEGGVAPDIKTPKEALDLIMDAIDKAGYK
KVGVIAMDVASSEFYKDGKYDLDFKNPESDPSKWLSGPQLADLYEQLISEYPIVSIEDPF
AEDDWDAWVHFFERVGDKIQIVGDDLTVTNPTRIKTAIEKKAANALLKVNQIGTLTESI
QAANDSYAAGWGMVSHRSGETEDTFIADLSVGLRSGQIKTGAPARSERLAKLNQILRIE
EELGSEAIYAGKDFQKASQL

>accession|AAB20452.1|Allergen Bet v I=major allergen [Betula pendula]

GVFNJETETTSVIPAAARLFKAFILDGDNLFPKVAPQAIXXVEN

>accession|AAB20453.1|Allergen Car b I=major allergen [Carpinus betulus]

GVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAIXK

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

MKPFVFLTFLLLAASSKKVDSAETVSFNFSNFSEGNPAINFQGDVTVLSNGNIQLTNL
NKVNSVGRVLYAMPVRIWSSATGNVASFLTSFSFEMKDIKDYPADGIIFFIAPEDTQIP
AGSIGGGTLGVSDTKGAGHFVGVVEFDYNSSEYNDPPTDHVGDVNSVDSVKTVPWNSVS
GAVVKVTVIYDSSTKTLVAVTNDNGDITTTIAQVVDLAKLPERVKFGFSASGSLGGRQI
HLIRSWSTLITTTTRRSIDNNEKKIMNMAA

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

MKSTIFFLFLVCAFTTISYLP SAIADFLVDNEGNPLENGGTYIILSDITAFGGIRAAPTGN
ERCPLTVVQSRNELDKGIGTIISSPYRIRFIAEGHPLSLKFDSFAVIMLCVGIPTSEWSV
EDLPEGPAVKIGENKDAMDGWFRLEVRSDDEFNRYKLVFCPQQAEDDKCGDIGISIDHDD
GTRRLVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

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

MKSTIFFALFLVCAFTTISYLP SATAQFVLDTDDDPLQNGGTYIYMLPVMRGKGGGIEVDST
GKEICPLTVVQSPNELDKGIGLVFTSPLHALFIAERYPLSIKFGSFAVITLCAGMPTEWA
IVEREGLQAVKLAARDTVDGWFNIERSREYNDYKLVFCPQQAEDNKCEDIGIQIDDDGI
RRLVLSKNKPLVVQFQKFRSSTA

>accession|AAB23483.1|Putative Kunitz trypsin inhibitor KTi2 [Glycine max]

MKSTIFFALFLVCAFTTISYLP SATAQFVLDTDDDPLQNGGTYIYMLPVMRGKSGGIEGNST
GKEICPLTVVQSPNKHNGIGLVFKSPLHALFIAERYPLSIKFGSFAVIPLCGVMPKWA
IVEREGLQAVTLAARDTVDGWFNIERSREYNDYKLVFCPQQAEDNKCEDIGIQIDNDG
IRRLVLSKNKPLVVEFQKFRSSTA

>accession|AAB24432.1|Allergen Aln g I [Alnus glutinosa]

MGVFNIEAETPSVIPAAARLFKAFILDGDKLLPKVAPEAVSSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDVNFVKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGGSSILKISNK
FHTKGDHEINAEQIKIEKEKAVGLLKAVERSYLLAHS DAYN

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

>accession|A60372|Putative pollen allergen Poa-pI - Kentucky
bluegrass (fragment) [Poa pratensis]
IAKVPPGPXITATYGDKWL

>accession|CAA51204.1|Allergen gamma 3 hordein, partial [Hordeum
vulgare]
TTMXXXPSGLELERPQQLFPQWQPLPQQPPFLQQEPEQPYPQQQPLPQQQPPFPQQPQLPH
QHQFPQQLPQQQFPQQMPLQPQQQFPQQMPLQPQQQPFQPKPFQYQQPLTQQPYPQQ
QPLAQQQPSIEEQHQLNLCKEFLQCTLDKVPLLQSVISFLRPHISQQNSCQLKRQQC
CQQLANINEQSRCPAIQTIVHAIVMQQQVQQQVGHGFVQSQLQQLGQGMPIQLQQQPGQA
FVLPQQQAQFKVVGSLVIQTLPLMLCNVHVPPYCSFPGSMATGSGGQ

>accession|CAA47341.1|Allergen phospholipase a1 [Dolichovespula
maculata]
RLIMFVGDPSSSNELDRFSVCPFSNDTVKMIFLTRENKXDFYTLDTMNRHNEFKSIIK
RPVVFITHGFTSSATEKNFVAMSEALMHTGDFLIIMVDWRMAACTDEYPGLKYMFKAAV
GNTRLVGNFIAMI AKKLVEQYKVPMTNIRLVGHSLGAHISGFAGKRVQELKLGKFSEIIG
LDPAGPSFKKNDCSERICETDAHVVQILHTSSNLGTERTLGTVDYINNGSNQPGCRYII
GETCSHTRAVKYFTECIRRECCLIGVPQSKNPQPVSKCTRNECVGLNAKKYPKRGFSFY
VPVEAEAPYCNNGKII

>accession|AAA32702.1|Putative serine protease [Aspergillus
niger]
MKGILGLSLLPLLTAAASPVFVDSIHNEAAPILSATNAKEVPDSYIVVFKKHVTSELASAH
HSWVQDIHDSQSERTELKRSFLGGLGDEVYLVGLKNTFDIAGSLIGYSGHFHEDVIEQVRR
HPDVDYIERDSEVHTMEGATEKNAPWGLARISHRDSLTFGNFNKYLYASEGGEGVDAYTI
DTGINVDHVFDEGRATWGKTIPTNDEDLDGNGHGTHCSGT MAGKKGVAKKANLYAVKVL
RSSSGTMSDVVSGVEYAVQAHIKKAKDAKNGKVKGFKGSVANMSLGGGKSKTLEDAVNA
GVEAGLHFAVAAGNDNADACNYSAAA EKAITVGASTLADERAYFSNYGECTDIFAPGLN
ILSTWIGSNYATNIISGTSMASPHIAGLLAYFVSLQPSSDSAFAVEELTPAKLKKDIIAI
ATEGALTDIPSNTPNVSHA AVGIYKRNELTQKFSSLPGTVVVPRTPPTSLAAVATRSPLP
RTASRTVLRVSFTRPKSCSPRSLVPSTARSRMPSSHRSELVLSRRRSEDLVFF

>accession|CAA29664.1|Allergen alpha-lactalbumin [Bos taurus]
MMSFVSLLLVGLFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTAFHTSGYDTQAI
VQNNDSTEYGLFQINNKIWCKDDQNPSSNICNISCDKFLDDDLTDDIMCVKKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>accession|CAA26953.1|Allergen major urinary protein [Mus
musculus]
MKMLLLLCLGLTLVCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRFLFL
EQIHVLENSLVLFHTVTRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLIN EKDGETFQLMGLYGREPDLMSDIKERFAQLCEEHGILRENIIDLSNANRCLQARE

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

GVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAITSVENIYERYGXG

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

SVFNYETETTSVIPAAFLFKAFILDGDKLFPKVAPQXQSIVXNXRVYXPK

>accession|AAB26195.1|Putative major allergen ABA-1=TBA-1 allergen homolog {N-terminal} [Ascaris suum]

HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEXL
KGXXXEIL

>accession|CAA49760.1|Putative major allergen [Myrmecia pilosula]

MKLSCLLLTLTIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ

>accession|CAA51718.1|Putative profilin 1 [Zea mays]

MSWQTYVDEHLMCEIEGHHLTSAAIIVGHDGATWAQSTAFPEFKPEEMAAIMKDFDEPGHL
APTGLILGGTKYMVIQGEPEGAVIRGKKGSGGITVKKTGQSLIIGIYDEPMTPGQC�NLVVE
RLGDYLLEQGM

>accession|CAA51719.1|Putative profilin 2 [Zea mays]

MSDRAKMSWQAYVDEHLMCEIEGHHLAAAAIVGHDGAAWAQSTAFPEFKTEDMANIMKDF
DEPGHLAPTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKTGQALVVGIYDEPMTPGQ
CNMVVERLGDYLLEQGM

>accession|CAA51720.1|Putative profilin 3 [Zea mays]

MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNIKDFDEPGFL
APIGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQC�NMVVE
RLGDYLVEQGL

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

GVFNYEAETTSVIPAAWLWKKXFILDGDNLFPKVAPQAXTSVENIYERGGWG

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

SVFNYETETTSVIPAAMLFKAFILDGDKLFPKVAPQXQSIVXNXRVYXPK

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

YTTEGGTKAEAEDVIPEGWKADTSYE

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

YTTEGGKKEAEDVIPEGWKADTSYE

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

YTTEGGTKSEAEDVIPE

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

YTTEGGTKSEVEDVIPEGWK

>accession|F37396|Putative pollen allergen Poa p I - Kentucky

bluegrass (fragment) [*Poa pratensis*]
YTTEGGTKAEAEVDVIPEGWKVDTSYE

>accession|AAA16792.1|Putative superoxide dismutase (manganese)
[*Hevea brasiliensis*]
MALRSLVTRKNLPSAFKAATGLGQLRGLQTFSLPDLPHYDYGALEPAISGEIMQLHHQKHH
QTYITNYNKALEQLNDAIEKGDAAVVKLQSAIKFNGGGHVNSIFWKNLAPVREGGEL
PHGSLGWADADFGSLEKLIQLMNAEGAALQSGWVWLALDKELKLVVETTANQDPLVT
KGPTLVPLLGIDVWEHAYYLQYKNVRPDYLKNIWKVMNWKYASEVYAKECPSS

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

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

>accession|CAA52753.1|Allergen Phlp5 [*Phleum pratense*]
MAVHQYTVLFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPATPAAPAEAAPAGKAT
TEEQKLI EKINAGFKAALAAAAGVQPADKYRTFVATFGAASNKAFAEGLSGEPKGAESS
SKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRI IAGTLEVHAVKPAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAPAAAATATATAAVGAAT
GAATAATGGYKV

>accession|CAA52194.1|Allergen preproalbumin [*Equus caballus*]
MKWVTFVSLFLFSSAYSRGVLRDTHKSEIAHRFNDLGEKHFGLVLFVAFSQYLQCCPF
EDHVKLVNEVTEFAKKCAADESAENCCKSLHTLFGDKLCTVATLRATYGEADCCQEP
ERNECFLTHKDDHPNLPKPKPEPDAQCAAFQEDPDKFLGKYLVEVARRHPYFYGPPELLFH
AEEYKADFTECCPADDKLA CLIPKLDALKERILLSSAKERLKCSSFQNFGERAVKAWSV
RLSQKFPKADFAEVSKI VTDLTKVHKECCHGDLLECADDRADLAKYICEHQDSISGKLKA
CCDKPLLQKSHCIAEVKEDDLPSDLPALADFAEDKEICKHYKDAKDVFLGTFLYEYSRR
HPDYSVSLLLRIAKTYEATLEKCCA EADPPACYRTVFDQFTPLVEEPKSLVKKNCDFEE
VGEYDFQNALIVRYTKKAPQVSTPTLVEIGRTLKGVGSRCKLPESERLPCSENHLALAL
NRLCVLHEKTPVSEKITKCCTDSLAEERRPCFSALELDEGYVPKEFKAETFTFHADICTLP
EDEKQIKKQSALAEVLKHKPKATKEQLKTVLGNFSAFVAKCCGREDKEACFAEEGPKLVA
SSQLALA

>accession|CAA47366.1|Allergen Car b I, partial [*Carpinus
betulus*]
GVFNYEAE TSPVIPAAARLFKSYVLDGDKLIPKVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEKMGAKEMA EKLLRAVESYLLAHTAEYN

>accession|CAA47357.1|Allergen Car b I [*Carpinus betulus*]
GVFNYEAE TSPVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFAE
GSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEEMKGAEMA EKLLRAVESYLLAHTAEYN

>accession|CAA47367.1|Allergen Car b I, partial [*Carpinus
betulus*]
GVFNYEAE TTSVIPAAARLFKAFILDGNKLI PKVSPQAVSSVENVEGNGGPGTIKKITFSE

GSPVKYVKERVEEIDHTNFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAEEMKGAKEMAELLRRAVESYLLAHTAEYN

>accession|AAB27594.1|Putative DF5=allergen {N-terminal}
[Dermatophagoides farinae]
AVGGQDADLAEAPFQISLLK

>accession|AAB27445.1|Putative Pha a I=34 kda pollen allergen {N-
terminal} [Phalaris aquatica]
IAKVPPGGXITAEYGDKWL

>accession|CAA81610.1|Putative allergen Hol-1I [Holcus lanatus]
MASSRSVLLLVAALFAVFLGSAHGIKVPVPPGNITATYGDWLDKSTWYGKPTGAGPK
DNGGACGYKDVKPPFSGMTGCGNTPIFKDGRGCGSFEIKCTKPESCSGEPVTVHITDD
NEEPIAPYHFDSLGHAFGSMAKKGEQKLSRAGELELKFRRVKCKYDPGDKPTFHVEKGS
NPNYLALLVKYIDGDGDVVAVDIKEKGKDKWIELKESWGA VWRVDTDPKLTGPFTVRYTT
EGGTKGEAEDVIPEGWKADTAYEAK

>accession|CAA53529.1|Putative PHL PII, pollen allergen [Phleum
pratense]
MSMASSSSSSLLAMAVLAALFAGAWCVPKVTFVTEKGSNEKHLAVLVKYEGDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEPLOQPFNFRFLTEKGMKNVFDVPEKYTIGATYAP
EE

>accession|P00304.2|Allergen Pollen allergen Amb a 3 (Amb a III)
(Allergen Ra3) [Ambrosia artemisiifolia (elator)]
GKVYLVGGPELGGWKLQSDPRAYALWSARQQFKTTDVLWVFNFTTGEDSVAEVWREEAYHA
CDIKDPIRLEPGGPDRFTLLTPGSHFICTKDQKFCVACVGR

>accession|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]
AQVMLMAVALVLMMLAAVPRAAVIDCGHVDLVRPCLSYVQGGPGPSGQCCDGVKNLHNG
ARSQSDRQSACNCLKGIARGIHNLNEDNARSIPPKCGVNLPTYTISLNDICSRV

>accession|S32101|Allergen PHL P5A protein - common timothy
(fragment) [Phleum pratense]
EAPAGKATTEEQKLIKINAGFKAALARRLQPADKYRTFVATFGPASNKAFKAEGLSGEPK
GAAESSKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKP
AAEEVKVIPAAELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDEIKASTGGAYES
YKFIPALEAAVKQAYAATVATAPEVKYTFVETALKKAITAMSEAQKAAKPPPLPPPQPP
PLAATGAATAATGGYKV

>accession|CAA49555.1|Allergen CMa, component of tetrameric
alpha-amylase inhibitor [Hordeum vulgare subsp. vulgare]
MASKSSITPLLLAAVLASVFAAATATGQYCYAGMGLPSNPLEGCREYVAQQTTCGVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHRCCEAVRYFIGRRSHPDWSVLKDLPGCPKEPQRDFA
KVLVTPGQC NVLTVHNAPYCLGLDI

>accession|CAA54421.1|Allergen Bet v 1b [Betula pendula]
MGVFNJETETTSVIPARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN

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

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

>accession|CAA54481.1|Allergen Bet v 1 c [Betula pendula]
MGVFNYESSETTSVIPAAARLFKAFILGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDQEMKAEHMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA54482.1|Allergen Bet v 1 d [Betula pendula]
MGVFNYEIETTSVIPAAARLFKAFILDGDNLVKVPKAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54483.1|Allergen Bet v 1 e [Betula pendula]
MGVFNYTEATSVIPAARLFKAFILDGDNLFKVPKAPQAISSVENIEGNGGPGTIKKISFP
EGIPFKYVKGRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54484.1|Allergen Bet v 1 f [Betula pendula]
MGVFNYEIEATSVIPAARLFKAFILDGDNLFKVPKAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54487.1|Allergen Bet v 1 j [Betula pendula]
MGVFNYTEATSVIPAARLFKAFILDGDNLFKVPKAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54488.1|Allergen Bet v 1 k [Betula pendula]
MGVFNYESSETTSVIPAAARLFKAFILGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAEMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA54489.1|Allergen Bet v 1 l [Betula pendula]
MGVFNYTEATSVIPAARMFKAFILDGDKLVKVPKAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54686.1|Putative profilin [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIIQGEPRVIRGKKGAGGITIKKTGQALVVGIIYDEPMPGQCNMVVE
RLGDYLVEQGM

>accession|AAA33405.1|Allergen isoform 9 [Lolium perenne]
MAVQKHTVALFLAVALVAGPAASYAADAGYAPATPATPAAPATAATPATPATPATPAAVP
SGKATTEEQKLIIEKINAGFKA AVAAA VVPADKYKTFVETFGTATNKAFVEGLASGYAD
QSKNQLT SKLDAALKLAYEAAQGATPEAKYDAYVATL TEALRVIAGTLEVHAVKPAEEV
KVGAIPAAEVQLIDKVDAAYRTAATAANAAPANDKFTVFENTFNNAIKVSLGAAYSYKF

IPTLVAAVKQAYAAKQATAPEVKYTVSETALKKAVTAMSEAEKEATPAAAATATPTPAAA
TATATPAAAYATATPAAATATATPAAATATPAAAGGYKV

>accession|AAB29137.1|Allergen beta-casein A3 [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHPFAQTQSLVYPPFGPIPNLQNIPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
QKEMFPKYPVEPFTESQSLTLTDVENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVPQKAVPYPQRDMPIQAFLLYQEPVLGPFVRGPFPIIV

>accession|P34071.1|Putative RecName: Full=Enterotoxin type C-2;
AltName: Full=SEC2; Flags: Precursor [Staphylococcus aureus]
MNKSRFISCVILIFALILVLFNLAESQPDPTDELHKSSEFTGTMGNMKYLYDDHYV
SATKVMVDKFLAHDLIYINISDKKLKNYDKVKTELLNEDLAKKYKDEVVDVYGSNYVNC
YFSSKDNVGVKVTGGKTCMYGGITKHEGNHFDNGNLQNVLIRVYENKRNTISFEVQTDKKS
VTAQELDIKARNFLINKKNLYEFNSSPYETGYIKFIENNGNTFWYDMMPPAGDKFDQSKY
LMMYNDNKTVDKSKSVKIEVHLTTKNG

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

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

>accession|CAA55068.1|Putative minor allergen Cla h 7 [Davidiella
tassiana]
MAPKIAIIFYSTWGHVQTLAEAEAKGIREAGGSVDLYRVPETLTQEVLTMKHAPPKDDSI
PEITDPFILEQYDRFPHGHPTRYGNFPAQWRFTWDRGTGGQWQTGAFWGKYAGLFI STGTQ
GGGQESTALAMSTLSHHGIIYVPLGYKTTFHLLGDNSEVRGAAVWGAGTFSGGDGSRQP
SQKELELTAQ GKAFYEAVAKVNFQ

>accession|CAA55070.1|Putative enolase; phosphopyruvate hydratase
[Davidiella tassiana]
MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSVASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIAPALIKENLDVKDQAAVDAFLNKLDGTTNKTIGANAILGVSMVAK
AAAAEKRVPLYAHISDLSGTTKPFVLPVPMNVVNGGSHAGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLSLTKKRYGQSAGNVGDEGGVAPDIQTAEALDLITDAIEEAGYTGQ
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWITYEQLADQYNELAAKYPVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKKAIEKACNALLKVNQIGTITEAI
NAAKDSFAAGWGMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKRLYAGDNFRTAINL

>accession|CAA55390.1|Allergen Phl p I allergen [Phleum pratense]
MASSSVLLVVVLFVAVFLGSAYGIPKVPQPNITATYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDVKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAPYHFDLSGHAFGAMAKKGEQKLSRAGELELQFRRVKCKYPEGTVTFHVEKGSNP
NYLALLVKYVNGDGDVVAVDIKEKGDKWIELKESWGAIWRIDTPDKLTGPFTVRYTTEG
GTKTEAEDVIPEGWKADTSYESK

>accession|S38584|Allergen allergen Phl p Vb - common timothy
[Phleum pratense]
MAVPRRGPRGGPGRSYPATPAAAGAAAAGKATTEEQKLIEDINVGFKAAVAARQ
RPAADKFKTFEASPRHPRPLRQGAGLVPKLDAAYSVAVYKAAVAVGATPEAKFDSFVASLTE
ALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFVAAATAATAPADDKFTVF

EAAFNKAIKESTGGAYDXYKCIPSLEAAVKQAYAATVAAAAEVKYAVFEAALTKAITAMS
EVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|CAA55854.1|Putative allergen [Betula pendula]
MPCSTEAMEKAGHGHASTPRKRSLSNSSFRLRSESLNTRLRLRRIFDLFDKNSDGIITVDE
LSRALNLLGLETDLSELESTVKSFTREGNIGLQFEDFISLHQSLNDSYFAYGGEDDNE
EDMRKSILSQEEADSFGGFKVFEDEGDGYISARELQMVLGKLGKLFSEGSEIDRVEKMIVSV
DSNRDGRVDFEFKDMMRSVLVRSS

>accession|BAA05542.1|Putative Cry j IA precursor [Cryptomeria
japonica]
MDSPCLVALLVLSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIIFSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLHLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLSTGVTISNNLFFNHKVMMLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGGSSNPTILSEGNSFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>accession|BAA05543.1|Putative Cry j IB precursor [Cryptomeria
japonica]
MDSPCLVALLVLSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIIFSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLSTGVTISNNLFFNHKVMMLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGGSSNPTILSEGNSFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPHLT
QNAGVLTCSLSKRC

>accession|BAA06172.1|Allergen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAEDQSAQIMLDSVVEKYLRNRSRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNRNIWLQFAKLTGFITLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLLVFGNCEGVKIIIGISITAPRDSNPNTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVSIVHVN
GAKFIDTQNGLRITWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|CAA56343.1|Putative Kunitz trypsin inhibitor [Glycine
max]
MKSTTSLALFLLCALTSSYQPSATADIVFDTEGNPIRNGGTYVLPVIRGKGGGIEFAKT
ETETCPLTVVQSPFEGLRGLPLIISSPFKILDITEGLILSLKFHLCTPLSLNSFSVDRY
SQGSARRTPCQTHWLQKHNRCWFRIQRASSESNYYKLVFCTSNDDSSCGDIVAPIDREGN
RPLIVTHDQNHPLLVQFQKVEAYESSTA

>accession|AAA19973.1|Putative Der p 3 allergen [Dermatophagoides
pteronyssinus]
MIIYNILIVLILLAINLANPILPASP NATIVGGEKALAGECPYQISLQSSSHFCGGTILD
EYWILTAHCVAGQTASKLSIRYNSLKHSLGGEKISVAKIFAHEKYDSYQIDNDIALIKL
KSPMKLNQKNAKAVGLPAKGSVDKVGQVRSVSGWYLEEGSYSLPSELRRVDIAVVSKE
CNELYSKANA EVDNMICGGDVANGGKDCSQGDSGGPVVDVKNNQVVGIVSWGYGCARKG
YPGVYTRVGNFIDWIESKRSQ

>accession|AAA68279.1|Allergen allergen [Dolichovespula maculata]
SERPKRVFNIIYWNVPTFMCHQYGLYFDEVTFNFIKHNSKDDFQGDKISIFYDPGEFPALL
PLKEGNYKIRNGGVPQEGNITIHLLQRFIENLDKTYPNRNFNGIGVIDFERWRPIFRQNWG
NMMIHKKFSIDLVRNEHPFWDKKMIELEASKRFEKYARLFMEETLKLAKKTRKQADWGY
GYPYCFNMSPNLVPDCDATAMLENDKMSWLFNNQNVLLPSVYIRHELTPDQRVGLVQGR
VKEAVRISNNLKHSPKVLVSYWVYVYQDDTNTFLTETDVKKTFQEIAINGGDGIIWGSS
DVNSLSKCKRLREYLLTVLGPITVNVTVN

>accession|AAB60215.1|Allergen Der p 1 allergen preproenzyme
[Dermatophagoides pteronyssinus]
MKIVLAIASLLALSAYARPSSIKTFEYKKAFFNKSATFEDEEAARKNFLESVKYVQSN
GGAINHLSLDFKNRFLMSAEAFEHLLKQFDLNAETNACSINGNAPAEIDLQMRV
TPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEY
IQHNGVVQESYYRYVAREQSCRPNARFGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSNAQGVYWIIVRNSWDTNWGDNGY
YFAANIDLMMIEEYPYVIL

>accession|AAA20065.1|Allergen Amb p V allergen [Ambrosia
psilostachya]
MNNEKNVSFEFIGSTDEVEIKLLPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSEI
CSQKCGKMRMNVTKNTI

>accession|AAA20067.1|Allergen Amb p V allergen [Ambrosia
psilostachya]
MNNEKNVSFEFIGSTDEVEIKLLPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSKI
CSQKCGKMRMNVTKNTI

>accession|AAA20064.1|Allergen Amb p V allergen [Ambrosia
psilostachya]
MNNEKNVSFEFIGSTNEVEIKVMACYAAGSICGEKRGYSSDPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>accession|AAA20066.1|Allergen Amb p V allergen [Ambrosia
psilostachya]
MNNEKNVSFEFIGSTNEVEIKVMACYAAGSICGEKRGYSSSDPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>accession|AAA20068.1|Allergen Amb p V allergen [Ambrosia
psilostachya]
MNNEKNVSFEFIGSTNEVEIKVMACYAAGSICGEKRGYCCTNPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>accession|BAA07020.1|Putative Cry j I precursor [Cryptomeria
japonica]
MDSPLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIIFSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHHKVMLLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGSSNPTILSEGNSFTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>accession|CAA54696.1|Allergen 1 Sc-3 [Betula pendula]
MGVFNIEDEATSVIAPARLFKSFVLDADNLIKPVAPENVSSAENIEGNGGPGTIKKITFP
EGSHFKYMKHRVDEIDHANFKYCYSIIIEGGPLGDTLEKISYEIKIVAAPGGGSILKITSK

YHTKGDISLNEEEIKAGKEKGAGLFKAVENYLVVHPNAYN

>accession|CAA54695.1|Allergen 1 Sc2 [Betula pendula]
GVFDYEGETTSVIPAAARLFKAFILDGDNLIPKVAPQAVSCVENIEGNGGPGTIKKITFPE
GSPFKYVKERVDEVDVNFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNKY
HTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHS DAYN

>accession|CAA54694.1|Allergen 1-Sc1 [Betula pendula]
MGVFDYEGETTSVIPAAARLFKAFILDGDNLIPKVAPQTVSCVENIEGNGGPGTIKKITFPE
EGSPFKYVKERVDEVDVNFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNK
YHTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHS DAYN

>accession|A60373|Putative pollen allergen (clone 7.2) - Kentucky
bluegrass (fragment) [Poa pratensis]
EFPGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDIAIKASTGGAYQSYKFIPAL
EAAVKQSYAATVATAPAVKYTVFETALKKAITAMAQAQKAAPAAVVTGIATSAVGAATG
AATAAAGGYKA

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

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

>accession|P35775.1|Putative Venom allergen 2 precursor (Venom
allergen II) (Allergen Sol i 2) (Sol i II) [Solenopsis invicta]
MKSFVLATCLLGFAQIIYADNKELKIIIRKDVAECLRTLPKCGNQPDPLARVDVWHCAMA
KRGVYDNPDPAVIKERSMKMCTKIITDPANVENCKKVASRCVDRETQGPKNRQKAVNII
GCALRAGVAETTTLARKK

>accession|P35781.1|Putative Venom allergen 5.01 (Antigen 5-1)
(Ag5-1) (Allergen Vesp c 5.01) (Vesp c V.01) [Vespa crabro]
NNYCKIKCRSGIHTLCKYGTSTKPNCGKNVVKASGLTKQENLEILKQHNEFRQKVARGLE
TRGNPQPQPPAKSMNTLVWNEDELAQIAQVWANQCNYGHDNCRNSAKYSVGQNI AEGSTTA
DNFGSVSNMVKMWEDEVKDYQYGSPPKNKLNKVGHYTMVWAKTKEIGCGSIKYIENGWHR
HYLVCNYGPAGNVGNEPIYERK

>accession|P35782.1|Putative Venom allergen 5.02 (Antigen 5-2)
(Ag5-2) (Allergen Vesp c 5.02) (Vesp c V.02) [Vespa crabro]
NNYCKIKCRSGIHTLCKYGTSTKPNCGKNVVKASGLTKQENLEILKQHNEFRQKVARGLE
TRGNPQPQPPAKSMNTLVWNEDELAQIAQVWANQCNYGHDNCRNSAKYSVGQNI AEGSTSA
DNFVNVSNMVKMWEDEVKDYQYGSPPKNKLNKVGHYTMVWAKTKEIGCGSEDI EDGWHR
HYLVCNYGPAGNVGNEPIYERK

>accession|P35780.1|Allergen Venom allergen 5 (Antigen 5) (Ag5)
(Allergen Pol f 5) (Pol f V) [Polistes fuscatus]
VDYCKIKCSSGIHTVCQYGESTKPSKNCADKVIKSVGPTEEEKKLIVNEHNRFRQKVAQG
LETRGNPQPQPAASDMNNTLVWNEDELAHIAQVWASQCQILVHDKCRNTAKYQVGQNIAYAG
GSKLPDVVSLIKLWENEVDFNYNKGITKQNFVGVGHYTMVIWAKTKEIGCGSLKYMKN
MQHHYLICNYGPAGNYLGLPYTKK

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

NNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPQPAPPAKNMKNLWVNDLAYVAQVWANQCQYGHDTCRDIAKYQVGQONVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGNNFLKTGHYTMVWANTKEVGCSSIKFIQEKW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35784.1|Allergen Venom allergen 5 (Antigen 5) (Ag5)
(Allergen Ves g 5) (Ves g V) [Vespula germanica]
NNYCKIKCLKGGVHTACKYESLKPNCANKKVVAYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPQPAPPAKNMKNLWVSDLAYIAQVWANQCQYGHDTCRDVAKYPVGQONVALTGSTA
AKYDNPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTMVWANTKEVGCSSIKYIQDKW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35760.1|Allergen Venom allergen 5 (Antigen 5) (Ag5)
(Allergen Ves m 5) (Ves m V) [Vespula maculifrons]
NNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPQPAPPAKNMKNLWVSDLAYIAQVWANQCQYGHDTCRDVAKYPVGQONVALTGSTA
AVYNDPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTMVWANTKEVGCSSIKYIQENW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35785.1|Allergen Venom allergen 5 (Antigen 5) (Ag5)
(Allergen Ves p 5) (Ves p V) [Vespula pensylvanica]
NNYCKIKCLKGGVHTACKYGLKPNCGNKIVVSYGLTKEEKQDILKEHNDFRQKIARGLE
TRGNPQPAPPAKNMKNLWVNDLAYVAQVWANQCQYGHDTCRDVAKYPVGQONVALTGSTA
DKYDNPVKLVKMWEDEVKDYNPKKKFSENNFNKIGHYTMVWANTKEIGCGSSIKYIQNEW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35786.1|Allergen Venom allergen 5 (Antigen 5) (Ag5)
(Allergen Ves s 5) (Ves s V) [Vespula squamosa]
VDYCKIKCLKGGVHTACKYGTSTKPNCGNMVVKSYGVTQAEKQEILKIHNDFRNKVARGL
ETRGNPQPAPPAKNMNNLVWNNELANIAQI WASQCKYGHDTCKD TTKY NVGQNI AVSSST
AAVYENVGNLVKAWENEVKDFNPTISWEQNEFKKIGHYTMVWAKTKEIGCGSSIKYVDNN
WYTHYLVCNYGPAGNFGNQEYVERK

>accession|P35787.1|Allergen Venom allergen 5 (Antigen 5) (Ag5)
(Allergen Ves vi 5) (Ves vi V) [Vespula vidua]
KVNYCKIKCLKGGVHTACKYGTSTKPNCGKMMVVKAYGLTEAEKQEILKVHNDFRQKVAKG
LETRGNPQPAPPAKNMNNLVWNNELANIAQVWASQCNYGHDTCKDTEKYPVGQNI AKRST
TAALF DSPGLVKMWENEVKDFNPNIEWSKNNLKKTGHYTMVWAKTKEIGCGSVKYVKD
EWYTHYLVCNYGPSGNFRNEKLYEKK

>accession|AAA28302.1|Allergen antigen 5 precursor
[Dolichovespula maculata]
PIINLSFG EANNYCKIKCSRGIHTLCKFGTSMKPNCGSKLVKVHGVSNDEKNEIVNRHNQ
FRQKVAKGLETRGNPQPAPPAKNMNNLVWNNELAKIAQTWANQCSFGHDQCRNTEKYQVG
QNVIAI ASTTGNSYATMSKLIEMWENEVKDFNPKKGTMGDNNFSKVGHYTMVWVGKTKEIG
CGSVKYIENNWHYTHYLVCNYGPAGNYMDQPIY

>accession|AAC37218.1|Allergen apyrase [Aedes aegypti]
MAGRPGYSAVIFLYVSVAVIARATDNMPPNKDVSKLFPLTLIHINDLHARFEETNMKSN
ACTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGT LWYNLLRWNVTADF IKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDKIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGYPYPTIVESKNKRKIPVQAKS
FGKYVGRLLTYFDDTGEVQHWEGYPVFIDHKVQQDPQILKDLVPWREKVEAIGSTVVGET
KIELDRDSCRDQECTLGVLVYADGFADQYTNDFRPF AIIQAGNFRNPIKVGKITNGDII E

AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPIRSRVKKIE
VMDYTNPKSDELKPLDKQAEYYIVVPSYLDGKDGFSAMKRATARRTGPLDSDVFKNYVE
KIKKVDNLKLRVIVCKGSKCT

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

MSRPLVITEGMMIGVLLMLAPINALLLGFVQSTPDNNKTVREFNVYWNVPTFMCHKYGLR
FEEVSEKYGILQNWMDKFRGEEIAILYDPGMFPALLKDPNGNVVARNGGVPQLGNLTKHL
QVFRDHLINQIPDKSFPVGVVIDFESWRPIFRQNWASLQPYKKLSVEVVRREHPFWDQDQ
VEQEAKRRFEKYQLFMEETLKAARKMRPAANWGYAYPYCYNLTPNQPSAQCEATTMQE
NDKMSWLFESDVLPSVYLRWNLTSGERVGLVGGRVKEALRIARQMTTSRKKVLPYYWY
KYQDRRDTLSDRADLEATLRKITDLGADGFIIWGSSDDINTKAKCLQFREYLNNELGPAV
KRIALNNNANDRLTVDVSVQV

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

MASKSSCDLLLA AVLVSIFA AVAAVGS EDC TPWTATPITPLPS CRDYVEQQACRIETPGP
PYLAKQQCCGELANIPQQCRCQALRFFMGRKSRPDQSGLMELPGCPREVQMDFVRILVTP
GFCNLTTVHNTPYCLAMDEWQWNRQFCSS

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

IHRGKMTLEAKFAANQDTAKVTIKVLAKVAGTTIQVPGLETGCKFIKCPVKKGEALDF
IYSGTIPAITPKVKADVTAELIGDHGVMACGTVHGGVE

>accession|AAA60330.1|Putative tropomyosin [Metapenaeus ensis]
MKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQVQESLLKANNQ
LVEKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAADSESRMRKVL
ENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAEERAETGESKI
VELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLO
KEVDRLDEDELVNEKEKYKSITDELDQTFSELSGY

>accession|CAA57342.1|Putative alcohol dehydrogenase [Candida
albicans]

MSEQIPKTQKAVVFD TNGGQLVYKDYPVPTPKPNELLIHVKYSVCHTDLHARKGDWPLA
TKLPLVGGHEGAGVVVGMGENVKGWKIGDFAGIKWLN GSCMSCEFCQQGAEPNCGEADLS
GYTHDGSFEQYATADAVQAAKIPAGTDLANVAPILCAGVTVYKALKTADLAAGQWVAISG
AGGGLGSLAVQYARAMGLRVVAIDGGDEKGEFVKSLGAEAYVDFTKDKDIVEAVKKATDG
GPHGAINSVSEKAIDQSVEYVRPLGKVVLVGLPAHAKVTAPVFDVAVKSIEIKGSYVGN
RKDTAE AIDFFSRGLIKCPIKIVGLSDLPEVFKLMEEGKILGRYVLDTSK

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

EDVPQPPPIQFHIQGVYCDTCRARFITESEFIPGASIRLQCKDRENGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLISSGREDCDEIPVEGWAKPSLKFILNTVNGTTTRTINPI
GFFKKEALPKCTQVYNKLGMYPPNM

>accession|S43243|Putative allergen-like protein Syr v I isoform
2 - Syringa vulgaris [Syringa vulgaris]

EDVPQPPVPIQFHIQGVYCDTCRARFITESEFIPGAGIRLQCKDGEHGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLSSSRKDC E E I P I E G W V K P S L K F I L N T V N G T T R T I N P L
GFFKKEVLPKCPQVFNKLGMYPPNM

>accession|S43244|Putative allergen-like protein Syr v I isoform 3 - *Syringa vulgaris* [*Syringa vulgaris*]
EDVPQPPVPQFHIIQGQVYCDTCRARFITEELSEFIPGASIRLQCKDGENGKITFTTEIGYTR
AEGLYSMLVEGDHKNFCEITLISSGRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPI
GFFKKEALPKCTQVYNKLGMYPPNM

>accession|AAB30434.1|Allergen albumin [*Canis familiaris*]
LSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLTKVHKECCHGDL
LECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDELPGDLPSLAADFV
EDKEVCKNYQEAKDVFLGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCY
AKVLDEFKPLVDEPQNLVKTNCELFEKLGEGYGFQNALLVRYTKKAPQVSTPTLVVEVSRK
LGKVGTKCCKPESERMSCADDFLS

>accession|AAB07620.1|Putative Asp FII [*Aspergillus fumigatus*]
SARDEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDIVVNGDKANVL
FRCDNPDGNCALLEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGGQGWVDHFADGYDEVIALAKSNGTESTHDSEAFEFYFALEAYAFDIA
APGVCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGSGATTTPDPSATIDVPSNCH
THEGGQLHCT

>accession|AAB32317.1|Allergen Cyn d Ib isoallergen {N-terminal}
[*Cynodon dactylon*]
AIGDKPGPKITATYXXKWLEAKATFYGSNPRGAA

>accession|CAA59370.1|Allergen major allergen [*Parietaria judaica*]
MRTVSARSSVALVVIVA AVLVTSSASVAPAPAPGSEETCGTVVGALMPCLPFVQKEKE
PSKCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLPP
IDVNMDCCKTLGVLHYKGN

>accession|P40918.1|Putative Heat shock 70 kDa protein (Allergen Cla h 4) (Cla h IV) [*Davidiella tassiana*]
MAPAIGIDLGTTYSCVGIYRDDRIEIIANDQGNRTTPSFVAFTDTERLIGDSAKNQVAIN
PHNTVFDKRLIGRKFQDAEVQADMKHFPFKVIKAGKPVTVQVEFKGETKDFTPEEISSM
ILTKMRETAESYLGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNLVRIINEPTAAIA
YGLDKKQEGEKNVLI FDLGGGTFDVSFLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFS
NEFKRKHKKDLSDNARALRRLRTACERAKRTLSSSAQTSIEIDSLFEGIDFFTSNTRARF
EEVGQDLFRGNMEPGERTLRDDKIDKSSVHEIVLGGGSTRIPKVQKLVSDFFNGKEPCKS
INPDEAVAYGAAVQAAILSGDTSSKSTKEILLLDVAPLSLGIETAGGVM TALIKRNTTIP
TKKSETFSTFSDNQPGVLIQVFEGERARTKDINLMGKFELSGIRPAPRGVPQIEVTFDLD
ANGIMNVSALFKGTGKTNKIVITNDKGRLSKEEIERMLADAKEYKEEDEAEAGRIQAKNG
LESYAYSLKNTVSDPKVEEKLSAEDKETLTGAIDKTVAWIDENQTATKEEYEAQKQLES
VANPVMKIIYGAEGGAPGGMPGQGAGAPPPGAGDDGPTVEEVD

>accession|P16311.2|Allergen Major mite fecal allergen Der f 1 precursor (Der f I) [*Dermatophagoides farinae*]
MKFVLAIASLLVLSTVYARPASIKTFEEFKAFNKNYATVEEEEVARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRRT
VTPIRMQGGCSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQRCRRPNSQHYGISNYCQIYPPDVQKIREALTQHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGDDYWIVRNSWDTTWGD SGY
GYFQAGNNLMMIEQYPYVIM

>accession|CAA26478.1|Putative Glycinin-like protein product
[*Glycine max*]

MGKPF T L S L S S L C L L L L S S A C F A I S S S K L N E C Q L N N L N A L E P D H R V E S E G G L I Q T W N S Q H
P E L K C A G V T V S K L T L N R N G L H S P S Y S P Y P R M I I I A Q G K G A L G V A I P G C P E T F E E P Q E Q S N
R R G S R S Q K Q Q L Q D S H Q K I R H F N E G D V L V I P P S V P Y W T Y N T G D E P V V A I S L L D T S N F N N Q L
D Q T P R V F Y L A G N P D I E Y P E T M Q Q Q Q Q K S H G G R K Q G H Q Q E E E E E G G S V L S G F S K H F L A Q
S F N T N E D I A E K L E S P D D E R K Q I V T V E G G L S V I S P K W Q E Q Q D E D E D E D E D E D E Q I P S H P P
R R P S H G K R E Q D E D E D E D E D K P R P S R P S Q G K R N K T G Q D E D E D E D E D Q P R K S R E W R S K K T Q P
R R P R Q E E P R E R G C E T R N G V E E N I C T L K L H E N I A R P S R A D F Y N P K A G R I S T L N S L T L P A L R
Q F Q L S A Q Y V V L Y K N G I Y S P H W N L N A N S V I Y V T R G Q G K V R V V N C Q G N A V F D G E L R R G Q L L V
V P Q N F V V A E Q A G E Q G F E Y I V F K T H H N A V T S Y L K D V F R A I P S E V L A H S Y N L R Q S Q V S E L K Y
E G N W G P L V N P E S Q Q G S P R V K V A

>accession|CAA27052.1|Allergen glutenin [Triticum aestivum]
M A K R L V L F V A V V V A L V A L T V A E G E A S E Q L Q C E R E L Q E L Q E R E L K A C Q Q V M D Q Q L R D I S P E
C H P V V V S P V A G Q Y E Q Q I V V P K G G S F Y P G E T T P P Q Q L Q Q R I F W G I P A L L K R Y Y P S V T S P Q Q
V S Y Y P G Q A S P Q R P G Q G Q Q P G Q G Q Q S G Q G Q Q G Y Y P T S P Q Q P G Q W Q Q P E Q G Q P G Y Y P T S P Q Q
P G Q L Q Q P A Q G Q Q P G Q G Q Q G R P G Q G Q P G Y Y P T S S Q L Q P G Q L Q Q P A Q G Q Q G Q Q P G Q G Q Q G Q
Q P G Q G Q Q P G Q G Q Q G Q Q P G Q G Q Q G Q Q L G Q G Q Q G Y Y P T S L Q Q S G Q G Q P G Y Y P T S L Q
Q L G Q G Q S G Y Y P T S P Q Q P G Q G Q Q P G Q L Q Q P A Q G Q Q P E Q G Q Q G Q Q P G Q G Q Q G Q Q P G Q G Q Q P G
Q G Q P G Y Y P T S P Q Q S G Q G Q P G Y Y P T S S Q Q P T Q S Q Q P G Q G Q Q G Q Q V G Q G Q Q A Q Q P G Q G Q Q P G
Q G Q P G Y Y P T S P L Q S G Q G Q P G Y Y L T S P Q Q S G Q G Q Q P G Q L Q Q S A Q G Q K G Q Q P G Q G Q Q P G Q G Q
Q G Q Q P G Q G Q Q G Q Q P G Q G Q P G Y Y P T S P Q Q S G Q G Q Q P G Q W Q Q P G Q G Q P G Y Y P T S P L Q P G Q G Q
P G Y D P T S P Q Q P G Q G Q Q P G Q L Q Q P A Q G Q Q G Q Q L A Q G Q Q G Q Q P A Q V Q Q G Q Q P A Q G Q Q G Q Q L G
Q G Q Q G Q Q P G Q G Q Q P A Q G Q Q G Q Q P G Q G Q Q G Q Q P G Q G Q Q P G Q G Q P W Y Y P T S P Q E S G Q G Q Q P G
Q W Q Q P G Q W Q Q P G Q G Q P G Y Y L T S P L Q L G Q G Q Q G Y Y P T S L Q Q P G Q G Q Q P G Q W Q Q S G Q G Q H G Y
Y P T S P Q L S G Q G Q R P G Q W L Q P G Q G Q Q G Y Y P T S P Q Q S G Q G Q Q L G Q W L Q P G Q G Q Q G Y Y P T S L Q
Q T G Q G Q Q S G Q G Q Q G Y Y S S Y H V S V E H Q A A S L K V A K A Q Q L A A Q L P A M C R L E G G D A L S A S Q

>accession|2008179A|Allergen major allergen Par j I [Parietaria judaica]
M V R A L M P C L P F V Q G K E K E P S K G C C S G A K R L D G E T K T G P Q R V H A C E C I Q T A M K T Y S D I D G K
L V S E V P K H C G I V D S K L P P I D V N M D C K T V G V V P R Q P Q L P V S L R H G P V T G P S R S R P P T K H G W
R D P R L E F R P P H R K K P N P A F S T L G

>accession|CAA58646.1|Allergen Mal d 1 [Malus domestica]
M G V Y T F E N E F T S E I P P S R L F K A F V L D A D N L I P K I A P Q A I K Q A E I L E G N G G P G T I K K I T F G
E G S Q Y G Y V K H R I D S I D E A S Y S Y T L I E G D A L T D T I E K I S Y E T K L V A C G S G S T I K S I S H Y
H T K G N I E I K E E H V K V G K E K A H G L F K L I E S Y L K D H P D A Y N

>accession|CAA26040.1|Allergen ovomucoidin [Gallus gallus]
M K L I L C T V L S L G I A A V C F A A P P K S V I R W C T I S S P E E K K C N N L R D L T Q Q E R I S L T C V Q K A T
Y L D C I K A I A N N E A D A I S L D G G Q V F E A G L A P Y K L K P I A A E I Y E H T E G S T T S Y Y A V A V V K K G
T E F T V N D L Q G K N S C H T G L G R S A G W N I P I G T L L H W G A I E W E G I E S G S V E Q A V A K F F S A S C V
P G A T I E Q K L C R Q C K G D P K T K C A R N A P Y S G Y S G A F H C L K D G K G D V A F V K H T T V N E N A P D L N
D E Y E L L C L D G S R Q P V D N Y K T C N W A R V A A H A V V A R D D N K V E D I W S F L S K A Q S D F G V D T K S D
F H L F G P P G K K D P V L K D F L F K D S A I M L K R V P S L M D S Q L Y L G F E Y Y S A I Q S M R K D Q L T P S P R
E N R I Q W C A V G K D E K S K C D R W S V V S N G D V E C T V V D E T K D C I I K I M K G E A D A V A L D G G L V Y T
A G V C G L V P V M A E R Y D D E S Q C S K T D E R P A S Y F A V A V A R K D S N V N W N N L K G K K S C H T A V G R T
A G W V I P M G L I H N R T G T C N F D E Y F S E G C A P G S P P N S R L C Q L C Q G S G G I P P E K C V A S S H E K Y
F G Y T G A L R C L V E K G D V A F I Q H S T V E E N T G G K N K A D W A K N L Q M D D F E L L C T D G R R A N V M D Y
R E C N L A E V P T H A V V R P E K A N K I R D L L E R Q E K R F G V N G S E K S K F M M F E S Q N K D L L F K D L T
K C L F K V R E G T T Y K E F L G D K F Y T V I S N L K T C N P S D I L Q M C S F L E G K

>accession|CAA60533.1|Putative A5A4B3 subunit [Glycine soja]
M G K P F T L S L S S L C L L L L S S A C F A I S S S K L N E C Q L N N L N A L E P D H R V E S E G G L I Q T W N S Q H
P E L K C A G V T V S K L T L N R N G L H L P S Y S P Y P R M I I I A Q G K G A L G V A I P G C P E T F E E P Q E Q S N

RRGSRSQKQQLQDSHQKIRHFNEGDLVIPPVGPYWTYNTGDEPVVAISLLDTSNFNQQL
DQTPRVFYLAGNPDIEYPETMQQQQQKSHGGRKQGQHQQEEEEEGGSVLSGFSKHFLAQ
SFNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDEDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDEKPRPSRPSHGKREQDQDQDEDEDEDEDEDEDEQPRKSREWRSKKTQ
PRRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPAL
RQFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQGKVRVVCQGNVFDGELRRGQLL
VVPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDVFRRAIPSEVLHASYNLRQSQVSELK
YEGNWGPLVNPESQQGSPRVKVA

>accession|AAB32224.1|Putative major allergen p Dp 15
[Dermatophagoides pteronyssinus]

MSQPILGYWDIRGYAQPIRLLLLTYSGVDFVDKRYQIGPAPDFDRSEWLNEKFNGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNGSNDHEEIRISMAEQQTEDMMAAMIRVCYDAN
CDKLPDYKSLPDCLKLMKSFVGEHAFIAGANISYVDFNLYEYLCHVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQPKTFNAPTSKWNASYA

>accession|BAA06905.1|Putative pre-pro-cucumisin [Cucumis melo]

MSSSLIFKLFSSLFFSNRLASRLDSDDDGKNIIYIVMGRKLEDPDSAHLHHRAMLEQVV
GSTFAPESVLHTYKRSFNFAVAKLTEEEAEKIASMEGVVSVFLNEMNELHTTRSDFLGF
PLTVPRRSQVESNIVGVLDGTGIWPESPSFDDGFSPPPKWKGTCTSSNFRNCRKIIG
ARSYHIGRPI SPGDVNGPRDTNGHGHTASTAAGGLVSQANLYGLGLGTARGGVPLARIA
AYKVCWNDGCSDDTDLAAYDDAIADGVDIISLSVGGANPRHYFVDAIAIGSFHAVERGIL
TSNSAGNGGPNFFTTASLSPWLLSVAASTMDRKFTVQVQIGNGQSFQGVSIINTFDNQYYP
LVSGRDI PNTGFDKSTSRFCTDKSVNPNLLKGIIVCEASFGPHEFFKSLDGAAGVLMTS
NTRDYADSYPLPSSVLDPNLLATLRYIYSIRSPGATIFKSTTILNASAPVVVVSFSSRGP
NRATKDVIKPDISGPMVEILAAWPSVAPVGGIRRNTLFNII SGTSMSCPHITGIATYVKT
YNPTWSPAIAIKSALMTTASPMNARFNPQAEFAYGSGHVNPLKAVRPGLVYDANESDYVKF
LCGQGYNTQAVRRITGDYSACTSGNTGRVWDLNYPFGLSVSPSQTFNQYFNRTLTSVAP
QASTYRAMISAPQGLTISVNPVLSFNGLGDRKSFTLTVRGSIKGFVVSASLVWSDGVHY
VRSPITITSLV

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

MGSIGAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRF
DKLPFGGDSIEAQCGTSVNVHSSLRDILNQITKPNVDVYSFSLASRLYAEERYPIPEYLQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTNIGIIRNVLQPSVDSQTAMVLVNAIV
FKGLWEKTFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELFPASGTM
SMLVLLPDEVSGLEQLESIIINFEKLEWTSNVMEEKIKVYLPKMEEKYNLTSVLMA
MGITDVFSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGSAAEAGVDAASVSEEFR
ADHPFLFCIKHIATNAVLFFGRCVSP

>accession|CAA60628.1|Putative BETV4 protein [Betula pendula]
MADDHPQDKAERERIFKRFDANGDGKISAAELGEALKTLGSITPDEVKHMMAEIDTDGDG
FISFQEF TDFGRANRGLLKDVAKIF

>accession|AAB01362.1|Allergen Ap15 [Malus x domestica]

MGVYTFENEYTS EIPPPRLFKAFVLDADNLIPKIAQAIKHAIEILEGDGGPGTIKKITFG
EGSQYGYVHKHIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHDPDAYN

>accession|CAA59279.1|Putative albumin precursor [Felis catus]

MKWVTFISLLLLFSSAYSRGVTRREAHQSEIAHRFNDLGEHFRGLVLFVAFSQQYLCQCPF
EDHVKLNVNEVTEFAKGCVADQSAANCEKSLHELLGDKLCTVASLRDKYEMADCCEKKEP
ERNECFLQHKDDNPGFGLVTPHADAMCTAFHENEQRFLGKYLIEIARRHPYFYAPELLE
YAEYKGVFTCECEAADKAACLTPKVDALREKVLASSAKERLKCASLQKFGERAFAKWSV

ARLSQKFPKAEFAEISKLVTDLAKIHKECCHGDLLECADDRADLAKYICENQDSISTKLLK
ECCGKPVLEKSHCI SEVERDEL PADLPPLAVDFVEDKEVCKNYQEAKDVFLGTFLYEYSR
RHPEYSVSLLLRLAKEYEATLEKCCATDDPPACYAHVFDEFKPLVEEPHNLVKTNCELFE
KLGEYGFQNALLVRYTKKVPQVSTPTLVEVSRSLGKVGSKCCTHPEAERLSCAEDYLSVV
LNRLCVLHEKTPVSEKCTESLVNRRPCFSALQVDETYVPKEFSAETFTFHADLCTL
PEAEKQIKKQ SALVELLKHKPKATEEQLKTVMGDFGSFVDKCCAAEDKEACFAEEGPKLV
AAAQALA

>accession|CAA88833.1|Allergen major allergen [Malus x domestica]
MGVYTFENEFTSEI PPSRLFKAFVLDADNLIPKIAQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGATIKSISHY
HPKGNIEIKKEHVKGKEKGHGLFKLIESYLKGHDPDAYN

>accession|CAA59338.1|Putative low molecular weight glutenin
[Triticum aestivum]
FALIAVVATSTIAQMETSCIPGLERPWQQQPLPPQQTLPFPQQQPPFPQQQPPFSQQQPSFS
QQQPPFSQQQPILPEPPFSLQQQPVLPPQQSPFSQQQLVLPQQQQQLPQQQISIVQPSVL
QQLNPKVFLQQQCSPVAMPQRLARSQMWWQSRCHVMQQQCCQQLSQIPEQSRDAICAI
TYSIILQEQQQGFVQAQQQQPQQSGQGVSSQQQSQQLGQCSFQQPQQ

>accession|CAA59339.1|Putative low molecular weight glutenin
[Triticum aestivum]
HIPSLEKPLQQQPLPLQQILWYQQQPIQQQPQFPFPQQPPCSQQQPPLSQQQQPPFSQQ
QPPFSQQQPILPQQPPFSQQQQQFPQQQQPLLPQQPPFSQQQPPFSQQQQQPPFSQQQQ
QPILLQQPPFSQHQQPVLPPQQIPSVQPSILQQLNPKVFLQQQCSPVAMPQSLARSQML
WQSSCHVMQQQCCRQLPQIPEQSRDAIRAI IYSIVLQEQQHGQGLNQPQQQQPQQSVQG
VSQPQQQQKQLGQCSFQQPQQ

>accession|CAA59340.1|Putative low molecular weight glutenin
[Triticum aestivum]
HIPSLEKPSQQQPLPLQQILWYHQQPIQQQPQFPFPQQPPCSQQQPPLSQQQQPPFSQQ
QPPFSQQQELPILPQQPPFSQQQQPQFSQQQQPFPQQQQPLLLQQPPFSQQRPPFSQQQQQ
PVLPPQQPPFSQQQQQPILPQQPPFSLHQQPVLPPQQIPYVQPSILQQLNPKVFLQQQC
SPVAMPQSLARSQMLWQSSCHVMQQQCCQQLPRIPEQSRDAIRAI IYSIVLQEQQHGQG
FNQPQQQQPQQSVQGVSSQPQQQQKQLGQCSFQQPQQ

>accession|AAB48072.1|Allergen allergen and phospholipase A1
[Vespula vulgaris]
MEENMNLKYL LLLFVYFVQVLNCCYGHGDPLSYELDRGPKCFNSDTVSI I IETRENRRD
LYTLQTLQNHPEFKKKTITRPVVFITHGFTSSASETNFINLAKALVDKDNMVISIDWQT
AACTNEAAGLKYLYPTAARNTRLVGYIATITQKLVKHYKISMANIRLIGHSLGAHASG
FAGKKVQELKLGKYSEI IGLDPARPSFDSNHC SERLCETDAEYVQI IHTSNYLGTEKTLG
TVDFYMNGKNQPGCGRFFSEVCSHRAVIYMAECIKHECCLIGIPKSKSSQPISSCTKQ
ECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>accession|CAA24933.1|Allergen HMW gluten-like protein product
[Triticum aestivum]
EKLGGQQQPRQLQPRQGGQGYPTSPQQSGQGQQLGQGGQGYPTSPQQSGQGQGYDS
PYHVSAEHQAASLKVAKAQQQLAAQLPAMCRLEGGDALLASQ

>accession|AAA78904.1|Allergen allergen precursor [Blomia
tropicalis]
MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTQCTHEETTSTQHHHEEVV
TTQTPHHEKTTTEETHSDDLIVHEGGKTYHVVCHEEGPIHIQEMCNKYI ICSKSGSLW
YITVMPCSIGTKFDPISRNCVLDN

>accession|AAB32842.1|Allergen Der p V allergen [Dermatophagoides pteronyssinus]
MKFIIAFFVATLAVMTVSGEDKKKHDYQNEFDLFLMERIHEQIKKGELALFYLQEQINHFE
AKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRMLQQRKDLDFEQYNLEMAKKSGLERDL
KKEEARVKKIEV

>accession|CAA51775.1|Allergen allergen Lol p II [Lolium perenne]
EFTVEKGSDEKNLALSIIKYSKEGDAMAELKEHGSNEWLALKKNGDGVWEIKSDKPLKG
PFNFRFVSEKGMWNVFDDVVPADFKVGT

>accession|CAA59419.1|Putative aspergillopepsin i [Aspergillus fumigatus]
MVFVSKVTAVVVGLSTIVSAVPVQPRKGFTINQVARPVTNKKTVNLPAVYANALTKYGG
TVPDSVKAASSGSAVTTPEQYDSEYLTPVKVGGTTLNLDFTGSADLWVFSSELSASQS
SGHAIYKPSANAQKLNQYTWKIQYGDGSSASGDVYKDTVTVGGVTAQSQAEEAASHISSQ
FVQDKDNDGLLGLAFSSINTVSPRPQTTFDFTVKSQLDSPLFAVTLKYHAPGTYDFGYID
NSKFQGELTYTDVDSQGFWMFTADGYGVGNGAPNSNSISGIADTGTLLLLLDDSVVADY
YRQVSGAKNSNQYGGYVFPSTKLPSFTTVIGGYNAVVPGEYINYPVTDGSSTCYGGIQ
SNSGLGFSIFGDI FLKSQYVVFDSQGPRLGFAPQA

>accession|CAA54587.1|Allergen PmaI [Parietaria judaica]
MVRALMPCLPFVQKEKEPSKGCSSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPPIIDVNMDCKTGVGVPRQPQLPVSLRHGPVTGSPDPAHKARLER
PQIRVPPPAPEKA

>accession|BAA04149.1|Allergen proteinase inhibitor [Solanum tuberosum]
MKCLFLLCLCLVPIVVFSSFTSKNPINLPSDATPVLDVAGKELDSRLSYRIISTFWGAL
GGDVYLGKSPNSDAPCANGIFRYNSDVGPSPTVRFVIGSSSHFGQGFENELLNIQFAIS
TSKLCVSYTIWKVGDYDASLGTMLLETGGTIGQADSSWFKIVKSSQFGYNLLYCPVTSTM
SCPFSDDQFCLKVGVVHQNGKRRRLALVKDNPLDVSFKQVQ

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

>accession|AAB34785.1|Putative 68 kDa allergen [Penicillium chrysogenum]
GPYKTWQRIYDYDFLTNLTSSSEANDIIGAEAPLWSEQVDDVTVSSVFWPRAAALGELVWS
GNRDAAGRKRTTSFTQRIILNFREYLVANGVMAAALVPKYCLQHPHACDLYKNQTVMS

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

>accession|CAA50008.1|Putative mung bean seed albumin [Vigna radiata var. radiata]
MSNLPYINAAFRFSSRDYEVYFFAKNKYVRLQYTPGKTEDKILTNLRLISSGFPSLAGTP
FAEPGIDSAFHTEASEAYVFSANNRAYIDYAPGTTNDKILAGPTTIAEMFPVLRNTVFAD
SIDSAFRSTKGKEVYLFKGNKYVRIDYDSKQLVGSIRNISDGFPVNLNGTFESGIDASFA
SHKEPEAYLFGDKYVRIHFTPGKTDDTLVGDVVRPILDGWPVLKAFCLCELNKPSSLSCIN

HLSLVTINKAFISNVCLFFFNVTGLGLEACFLS

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

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

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

>accession|CAA62909.1|Allergen allergen sin a 1.0104 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPRVCNIRQVSVCPFKTTPGGS

>accession|CAA62910.1|Allergen allergen sin a 1.0105 [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLLEGEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPGGS

>accession|CAA62911.1|Allergen allergen sin a 1.0106 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPGGS

>accession|CAA62912.1|Allergen allergen sin a 1.0107 [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPGGS

>accession|CAA62908.1|Allergen allergen sin a 1.0108 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
KPPLLQCCNELHQEEPLCVCPTLKGASKAVKQQVRQQLEQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPGGS

>accession|AAA80264.1|Allergen Der p 7 allergen polypeptide [Dermatophagoides pteronyssinus]
MMKLLLIAAAFAVVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSDKFER
HIGIIDLKGELDMRNIQVRGLKQMKRVGDANVKSESGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVNHIGGLSILDPIFA
VLSDVLTAFQDTVRAEMTKVLAPAFKKELENNQ

>accession|BAA11251.1|Allergen gamma-gliadin precursor [Triticum

aestivum]
NIQVDPSPGQVQWPQQQPFQPHQPFSSQQPQOTFPQPQQTFPHQPPQQFSQPQQPQQQFIQ
PQQPFQPPQQTYPQRPQQPFPQTQQPQQPFPQSQQPQQPFPQPPQQFQPPQQPQQSFPQ
QQPSLIQQSLOQQLNPKCNFLQCKPVSLVSSLWSMILPRSDCQVMRQQCCQQLAQIPQ
QLQCAAIHSIVHSIIMQQEQQEQRQGVQILVPLSQQQQVVGQGLVQGGI IQPQQPAQLE
VIRSSVLQTLATMCNVYVPPYCSTIRAPFASIVAGIGGQ

>accession|2023228A|Allergen major allergen Phl p Va [Phleum
pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIIEKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAFAGLSGEPKGAESSKAALTSKLDAAKYLAYKTAEGATPE
AKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANA
APANDKF'TVFEEAFNDEIKASTGGAYESYKFIPALEAAVKQAYAAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPPPLPPPPQPPPLAATGAATAATGGYKV

>accession|2103117A|Putative allergen Dac g II [Dactylis
glomerata]
EAPVTF'TVEKGSDEKNLALSIIKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGFNFRFVSEKGMNRNVFVDVVPADFKVGT'TYKPEEAAAASASRRRSSEVFQFLILSCQ
GRIVNCEVLICVMRRGNAMCLIASISMHHILTLDRFFFDGLEIIYKIFKMMFQKPRTRT
CIEKDFPRRSSSSIPT

>accession|AAB38064.1|Putative thaumatin-like protein precursor
[Prunus avium]
MMKTLVVVLSLSLTLISFGGAHAATISFKNNCPYMWVPGTLTSDQKPQLSTTGFEELASQA
SFQLDTPVPWNGRFWARTGCSTDASGKFCATADCASGQVMCNGNGAIPATLAEFNIPA
GGGQDFYDVSVDGFNLPMSVTPQGGTGDKTASCPANVNAVCPSELQKKGSDGSVVA
SACVKFGT'PQYCCTPPQNTPETCPPTNYSEIFHNACPDAYSAYDDKRGTF'TCNGGPNYA
ITFCP

>accession|AAA87851.1|Allergen allergen Bla g 4 [Blattella
germanica]
AVLALCATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCVWIDRFSYDDA
LVSKYTDSQGNRTTIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYENYAIIVEGCPA
AANGHVIIYVQIRFSVRRFHPKLGDKEMIQHYYTLQVNQHKKAIEEDLKHFNLYEDLHST
CH

>accession|CAA93121.1|Putative protein with incomplete signal
sequence [Holcus lanatus]
VFLGSAHGIKVP'PGPNITATYGDWLDKSTWYGKPTGAGPKDNGGACGYKD'VDKPPFS
GMTGCGNTP'IFKDRGCGSCFEIKCSKPESCSGEPVTVHITDDNEEPIAPYHFDLSGHAF
GSM'AKKGEQKLR'SAGELELKFRRVKCKY'PDGTP'FHV'EKGSNP'NYLALLV'KYIDGDGD
VVAVDIKEKGD'KWIELKESW'GAVWRV'DTPDKLTGP'FTVRYTTEGGTKGEAEDV'IEGWK
ADTAYEAK

>accession|P43237.1|Allergen Allergen Ara h 1, clone P17
precursor (Ara h I) [Arachis hypogaea]
MRGRV'SPLMLLLGILV'LASVSATQAKSPYRKTENPCAQRCLQSCQQEPDDLKQKACESRC
TKLEYDPRCVYDTGATNQRHPPGERTRGRQPGDYDDRRQPRREEGRWGPAEPRERERE
EDWRQ'PREDWRRP'SHQ'PRKIRPEGREGEQEWGTPGSEVREETS'RNNPFYF'SRRF'STRY
GNQNGR'IRVLQR'FDQ'RSKQF'QNLQ'NHRIVQIEARPNTLVL'PKHADADN'ILVIQQGQATVT
VANGNNR'KSFNLDEGHALR'IPSGFISYILNRHDN'QNLRVAKISMPVNTPGQFEDFFPASS
RDQSSYLQGF'SRNTLEAAFNAEFNE'IRRVLLEENAGGEQEERGQRRR'STRSSDNEGVIK
VSKEHVQELTKHAKSVSKKGSEEDITN'PINLRDGE'PDL'SNNFGR'LFV'KPKKNPQLQD
LDMMLT'CVEIKEGALMLPHFNSKAMVIVVVNKG'TGNLELVAVRKEQQQRGRREQEWEEEE

EDEEEEGSNREVRRYTARLKEGDVFI MPAAHPVAINASSELHLLGFGINAENNHRIFLAG
DKDNVIDQIEKQAKDLAFPGSGEQVEKLIKQRESHFVSARPQSQSPSSPEKEDQEEENQ
GGKGPLLSILKAFN

>accession|P43238.1|Allergen Allergen Ara h 1, clone P41B
precursor (Ara h I) [Arachis hypogaea]
MRGRVSPMLLLLGLVLSVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTTNQRSPPGERTRGRQPGDYDDRRQPRREEGGRWGPAGP
REREREEDWRQPREDWRRPSHQPRKIRPEGREGEQEWGTPGSHVREETSRRNNPFYFPSR
RFSTRYGNQNGRIRVLQRFQDQSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNRRKSFNLDEGHALRIPSGFISYILNRHDNQLRVAKISMPVNTPGQFED
FFPASSRDQSSYLQGFSRNTLEAAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSEN
NEGVIKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPLDSNNFGKLFVVKPD
KKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGR
EEEEDEDEEEEGSNREVRRYTARLKEGDVFI MPAAHPVAINASSELHLLGFGINAENNHR
IFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKQKESHFVSARPQSQSQSPSSPEKE
SPEKEDQEEENQGGKGPLLSILKAFN

>accession|P42058.1|Putative Minor allergen Alt a 7 (Alt a VII)
[Alternaria alternata]
MAPKIAIVYYSMYGHIKKMADAELKGIQEAGGDAKLFQVAETLPQEVLDKMYAPPKDSSV
PVLEDPVLEEFDFGILFGIPTRYGNFPAQFKTFWDKTGKQWQQGAFWGKYAGVVFSTGTL
GGGQETTAIMSTLVDHGFIVPLGYKTAFSMLANLDEVHGGSPWGAGTFSAGDGSRQP
SELELNIAQAQKAFYEAVAKAHQ

>accession|P43180.2|Allergen Major pollen allergen Bet v 1-G (Bet
v I-G) [Betula pendula]
MGVFNYESSETTSVIPARLFKAFILEGDNLIPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGVGDTELEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|P43186.2|Allergen Major pollen allergen Bet v 1-M/N
(Bet v I-M/N) [Betula pendula]
MGVFNYESSETTSVIPARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|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]
MKGACVLVLLWAALLLISGGNCEICPAVKRDVDLFLTGTTPDEYVEQVAQYKALPVVLENA
RILKNCVDAKMTEEDKENALSVDKIYTSPLC

>accession|P46436.3|Allergen RecName: Full=Glutathione S-
transferase 1; AltName: Full=GST class-sigma [Ascaris suum]
MPQYKLTDFDIRGLGEGARLIFHQAGVKFEDNRLKREDWPALKPKTPFGQLPLLEVDGEV
LAQSAAIYRYLGRQFGLAGKTPMEEAQVDSIFDQFKDFMAELRPCFRVLGAFEEGDKEKV
LKEVAVPARDKHLPLLEKFLAKSGSEYMGKSVTWADLVITDSLASWESLIPDFLSGHLQ
LKKYIEHVRELPNIKKWIAERP KTPY

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

DGI I A A Y Q N P A S W K N N R I W L Q F A K L T G F T L M G K G V I D G Q G K Q W W A G Q C K W V N G R E I C N D R
D R P T A I K F D F S T G L I I Q G L K L M N S P E F H L V F G N C E G V K I I G I S I T A P R D S P N T D G I D I F A
S K N F H L Q K N T I G T G D D C V A I G T G S S N I V I E D L I C G P G H G I S I G S L G R E N S R A E V S Y V H V N
G A K F I D T Q N G L R I K T W Q G G S G M A S H I I Y E N V E M I N S E N P I L I N Q F Y C T S A S A C Q N Q R S A V
Q I Q D V T Y K N I R G T S A T A A A I Q L K C S D S M P C K D I K L S D I S L K L T S G K I A S C L N D N A N G Y F S
G H V I P A C K N L S P S A K R K E S K S H K H P K T V M V K N M G A Y D K G N R T R I L L G S R P P N C T N K C H G C
S P C K A K L V I V H R I M P Q E Y Y P Q R W M C S R H G K I Y H P

>accession|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]
M K H L A A Y L L L G L G G N T S P S A A D V K A V L E S V G I E A D S D R L D K L I S E L E G K D I N E L I A S G S E
K L A S V P S G G A G A A A S G G A A A G G S A Q A E A A P E A A K E E E K E E S D E D M G F G L F D

>accession|AAA86533.1|Putative Ory s 1 [Oryza sativa]
M A S S S L L L A C V V A A M V S P S P A G H P K V P P G P N I T T S Y G D K W L E A R P P G M V R P R V L A P K D N
G G A C G Y K D V D K A P F L G M N S C G N D P I F K D G K G C G S C F E I K C S K P E A C S D K P A L I H V T D M N D
E P I A A Y H F D L S G L A M A K D G K D E E L R K A G I I D T Q F R R V K C K Y P A D T K I T F H I E K A S N P N Y L
A L L V K Y V A G D G D V V E V E I K E K G S E E W K A L K E S W G A I W R I D T P K P L K G P F S V R V T T E G A R R
S S A E D A I P D P G R R Q R V Q V N V Q A K

>accession|AAA86744.1|Allergen aspartic protease precursor [Blattella germanica]
M I G L K L V T V L F A V A T I T H A A E L Q R V P L Y K L V H V F I N T Q Y A G I T K I G N Q N F L T V F D S T S C N
V V V A S Q E C V G G A C V C P N L Q K Y E K L K P K Y I S D G N V Q V K F F D T G S A V G R G I E D S L T I S N L T T
S Q Q D I V L A D E L S Q E V C I L S A D V V V G I A A P G C P N A L K G K T V L E N F V E E N L I A P V F S I H H A R
F Q D G E H F G E I I F G G S D W K Y V D G E F T Y V P L V G D D S W K F R L D G V K I G D T T V A P A G T Q A I I D T
S K A I I V G P K A Y V N P I N E A I G C V V E K T T T R R I C K L D C S K I P S L P D V T F V I N G R N F N I S S Q Y
Y I Q Q N G N L C Y S G F Q P C G H S D H F F I G D F F V D H Y Y S E F N W E N K T M G F G R S V E S V

>accession|AAA87456.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
M A I S S S T S G T S S S F P S R T T V M L L L F F F A A S V G I T D A Q V G V C Y G M Q G N N L P P V S E V I A L Y K
K S N I T R M R I Y D P N R A V L E A L R G S N I E L I L G V P N S D L Q S L T N P S N A K S W V Q K N V R G F W S S V
L F R Y I A V G N E I S P V N R G T A W L A Q F V L P A M R N I H D A I R S A G L Q D Q I K V S T A I D L T L V G N S Y
P P S A G A F R D D V R S Y L D P I I G F L S S I R S P L L A N I Y P Y F T Y A Y N P R D I S L P Y A L F T S P S V V V
W D G Q R G Y K N L F D A T L D A L Y S A L E R A S G G S L E V V V S E S G W P S A G A F A A T F D N G R T Y L S N L I
Q H V K G G T P K R P N R A I E T Y L F A M F D E N K K Q P E V E K H F G L F F P D K R P K Y N L N F G A E K N W D I S
T E H N A T I L F L K S D M

>accession|AAB09252.1|Putative 34 kDa maturing seed vacuolar thiol protease precursor [Glycine max]
M G F L V L L L F S L L G L S S S S I S T H R S I L D L D L T K F T T Q K Q V S S L F Q L W K S E H G R V Y H N H E E
E A K R L E I F K N N S N Y I R D M N A N R K S P H S H R L G L N K F A D I T P Q E F S K K Y L Q A P K D V S Q Q I K M
A N K K M K E Q Y S C D H P P A S W D W R K K G V I T Q V K Y Q G C G R G W A F S A T G A I E A A H A I A T G D L V
S L S E Q E L V D C V E E S E G S Y N G W Q Y Q S F E W V L E H G G I A T D D D Y P Y R A K E G R C K A N K I Q D K V T
I D G Y E T L I M S D E S T E S E T E Q A F L S A I L E Q P I S V S I D A K D F H L Y T G G I Y D G E N C T S P Y G I N
H F V L L V G Y G S A D G V D Y W I A K N S W G E D W G E D G Y I W I Q R N T G N L L G V C G M N Y F A S Y P T K E E S
E T L V S A R V K G H R R V D H S P L

>accession|BAA05540.1|Putative prepro AprM [Bacillus sp.]
M R Q S L K V M V L S T V A L L F M A N P A A A S E E K K E Y L I V V E P E E V S A Q S V E E S Y D V D V I H E F E E I
P V I H A E L T K K E L K L K K D P N V K A I E E N A E V T I S Q T V P W G I S F I N T Q Q A H N R G I F G N G A R V
A V L D T G I A S H P D L R I A G G A S F I S S E P S Y H D N N G H G T H V A G T I A A L N N S I G V L G V A P S A D L

YAVKVLDRNGSGSLASVAQGI EWAINNNMHIINMSLGSTSGSSTLELAVNRANNAGILLV
GAAGNTGRQGVNYPARYSGVMAVA AVDQNGQRASFSTYGPEIEISAPGVNVNSTYTGNRY
VLSLGTSMATPHVAGVAALVKSRYPSYTNNQIRQRINQTATYLGSPSLYGNGLVHAGRAT
Q

>accession|CAA01909.1|Putative B1 protein allergen [Cynodon
dactylon]
GTRRFDTNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFIDFDEFISFCNAN
PGLMKDVAKVF

>accession|CAA01910.1|Putative B4 protein allergen [Cynodon
dactylon]
GTSFKRFDTNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFIDFDEFISFCN
ANPGLMKDVAKVF

>accession|BAA09634.1|Putative calcium-binding protein [Brassica
rapa]
MADAEHERIFKKFDTGDGKISAAELEEALKKLGSVTPDDVTRMMAKIDTDGDGNISFQE
FTEFASANPGLMKDVAKVF

>accession|CAA65341.1|Allergen allergen [Malassezia sympodialis]
MRYSTVLAALALLGTS AVSVLAALPDQIDVKVKNLTPEDTIYDRTRQVFYQSNLYKGRIE
VYNPKTQSHFNVVIDGASSNGDGEQQMSGLSLLTHDNSKRLF AVMKNAKSFNFADQSSHG
ASSFHSFNLPLSENSKPVWSVNF EKVQDEF EKKAGKRPFVGVVQSAQDRDGNSYVAFALGM
PAIARVSADGKT VSTFAWESGNGGQRP GYSGITFDPHSNKLI AFGGPRALTAFDVSKPYA
WPEPVKINGDFGTL SGT EKI VTVPVGNESVLV GARAPYAI SFRSWDNWKSANIKKTKRSE
LQNSGFTAVADYYQ GSEQGLYAVSAFFDNGAHGGRSDYPLYKLDNSILNF

>accession|BAA07772.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
RHEVKRQC VATTHPAAPGTEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVG
HPMAEVFP GCRRGDLERRRSLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA07773.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
RVVKRQC VATRRRTGGADEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHP
MAEVFP GCRRGDLERARATLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA07774.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
FGTRFRQRQC VGP RRTRRRWTQQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATD
VGHPMAEVFP GCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA12318.1|Allergen alpha-gliadin [Triticum aestivum]
VRVPVPLQLPQNPSQQQPQEQVPLVQQQQFLGQQQPFPPQQPYPQPQPFPSQQPYLQLQP
FPQPQLPYSQPQPF RPQQPYPQPQPQYSQPQEPISQQQQQQQQQQQILQQILQQQLIPCM
DVVLQQHNI AHGRSQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIQNVVHAIILHQQKQ
QQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQDQGSVQPQQLPQFEEIRNLALQTLPAMC
NVYIPPYCTIAPFGIFGTN

>accession|BAA09920.1|Putative prepro Der f 3 [Dermatophagoides
farinae]
MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQVAEIIYQHENYDSMTIDNDVALIKLKT
PMTLDQTNAPVPLPAQGS DVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQDCD

QLYSKAGADVSENMICGGDVANGGVDSCQGDSSGGPVVDVATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

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

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

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

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

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

>accession|AAB35977.1|Allergen allergen Der f 7 [Dermatophagoides
pteronyssinus]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVDPHADKFER
HVGIVDFKGEELAMRNI EARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSVDLTAIFQDTRKEMTKVLAPAFKRELEKN

>accession|CAA96534.1|Allergen major allergen Mal d 1 [Malus x
domestica]
MGVFNYTEFTSVIPARLFNAFVLDADNLIPKIAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKSDVEIKEEHVKAGKEKASHLFLKLIENYLLAHS DAYN

>accession|CAA96535.1|Allergen major allergen Mal d 1 [Malus x
domestica]
MGVFNYTEFTSVIPAPRLFKA FILDGDNLIPKIAPQAIKSTEIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTS
YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>accession|CAA96536.1|Allergen major allergen Mal d1 [Malus x
domestica]
MGVFNYTEFTSVIPAPRLFKA FILDGDNLIPKIAPQAIKSTKIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTNSH
YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>accession|CAA96537.1|Allergen major allergen Mal d1 [Malus x
domestica]
MGVFNYTEFTSVIPAPRLFKA FILDGDNLIPKIAPQAIKSTEIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTS
YRAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>accession|AAA99805.1|Putative Der f 3 mite allergen

[Dermatophagoides farinae]

IVGGVKAKAGDCPYQISLQSSSHFCGGSILDEYWILTAAHCVNGQSACKLSIRYNTLKHA
SGGEKIQVAEIYQHENYDSMTIDNDVALIKLKTTPMTLDQTNAPVPLPPQGSVDKVGDKI
RVSGWGYLQEGSYSLPSELQRVDIDVVSREQCDQLYSKAGADVSENMICGGDVANGGVDS
CQGDSGGPVVDIATKQIVGIVSWGYGCAKRGYPGVYTRVGNFVDWIESKRSQ

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

MGVFNJETETPSVIPAAARLFKAFILDGDKLLPKVAPEAVSSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDVNFVKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGGSSILKISNK
FHTKGDHEINAEQIKIEKEKAEGLLKAVESYHLLAHS DAYN

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

MGVFNJETEATSVIPAAARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGIPFKYVKDRVDEVDHANFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSSILKISNK
YHTKGDHEVKAQIKASKEMGETLLRAVERYLLAHS DAYN

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

MGVFNJETETTSVIPAAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSSILKISNK
YHTKGDHEMKAHEMKAIKEKAEALLRAVESYLLAHS DAYN

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

MGVFNJETEATSVIPAAARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSSILKISNK
YHTKGDHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

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

MGVFNJETETTSVIPAAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYAYS MIEGGALGDTLEKICNEIKIVATPDGGSSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN

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

MGVFNJETETTSVIPAAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN

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

MGVFNJETEATSVIPAAARLFKASILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGSPFKYVKERVDEVDVNFVKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGGSSILKISNK
FHTKGDHEINAEQIKIEKEKAVGLLKAVESYLLAHS DAYN

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

MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVAHKNFKYSYSVIEGGPIGDTLEKISNEIKIVATPDGRSILKISNK
YHTKGDHEVKAQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA96548.1|Allergen major allergen Cor a 1 [Corylus

avellana]

MGVFNJETESTSVIPAARLFKAFILDGNNLIPKVAPQAVSSVENVEGNGGPGTIKKITFS
EGSPFKYVKERVEEVDHTNFKYSYTVIEGGPVGDKVEKICNEIKIVAAPDGGSSILKISNK
YHTKGDHEVDAEHKGGKEKVEGLFRAVEAYLLAHS DAYN

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

MGVFNJETETTSVIPPARLFKRFVLDSDNLIPKVAPKAIKSIEIEGNGGPGTIKKICFD
EGSPFNKQKVEEIDQANFSYRYSVIEGDALSDKLEKINYEIKIVASPHGSSILKSISK
YHTIGDHELKDEQIKAGKEKASGLFKAVEGYLLAHS DAYN

>accession|CAA66403.1|Allergen parvalbumin beta [Salmo salar]
MACAHLCKEADIKTALEACKAADTFSFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFQNFPCPKARELTD AETKAFKAGDADGDGMIGIDEFAVLVKQ

>accession|AAB01092.1|Allergen pathogenesis-related protein
[Daucus carota]

LIFLLILSNNILNIMG AQSHSLEITSSVSAEKIFXXIVLDVDTVIPKAAPGAYKSVDVKG
DGGAGTVRIITLPEGSPITSMTVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVVP
TADGGSITKTTAIFHTKGD AVVPEENIKFADAQNTALFKAIEAYLIAN

>accession|AAB36117.1|Putative Sol i 1=antigen {N-terminal}
[Solenopsis invicta]

GAASSNTYDIGQLMAKYTV DLMNKNLGNQQSCQDINASLPVVFITHGFTSSAQVSTFK

>accession|AAB36119.1|Putative Sol i 1=antigen {N-terminal}
[Solenopsis invicta]

WKIPLNNIQYVGHSLGSHVSGFAAK

>accession|AAB36120.1|Putative Sol i 1=antigen {N-terminal}
[Solenopsis invicta]

NDNTFEGEYHAFPCARNLFKGRQQE

>accession|AAB36121.1|Putative Sol i 1=antigen {N-terminal}
[Solenopsis invicta]

SQPACSWYDVPCSHSEXVYXTGVPS

>accession|P49370.1|Allergen Hyaluronoglucosaminidase

(Hyaluronidase) (Allergen Ves v 2) (Ves v II) [Vespula vulgaris]
SERPKRVFN IYWNVPTFMCHQYDLYFDEVTN FN IKRNSKDDFQGDKIAIFYPGEFPALL
SLKDGKYKKRNGGVPQEGNITIH LQKF IENLDKIYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNF SIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGYY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVL SYWVYVYQDETNTFLTETDVKKTFQEIVINGGDGIIWGSS
DVNSLSKCKRLQDYLLTVLGPIAINVTEAVN

>accession|P49372.1|Allergen Major allergen Api g 1 (Api g
1.0101) (Api g I) [Apium graveolens]

MGVQTHVLELTSSVSAEKIFQGFVIDVDTVLPKAAPGAYKSVEIKDGGPGTLKIITLPD
GGPITMTLRIDGVNKEALTFDYSVIDGDILLGFIESIENHVVLVPTADGGSICKTTAIF
HTKGD AVVPEENIKYANEQNTALFKALEAYLIAN

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

MSTSELATSYAALILADDGVDITADKLQSLIKAAKIEEVEPIWTTLFAKALEGKDKVDLL

LNVGSGGGAAPLPEALLLRWRAADAAPAAEEKKEEKEESDEDMGFGLFD

>accession|P02789.2|Allergen Ovotransferrin precursor
(Conalbumin) (Allergen Gal d 3) (Gal d III) (Serum transferrin)
[Gallus gallus]

MKLILCTVLSLGIAAVCF AAPPKSVIRWCTISSPEEKKCNNLRDLTQQERISLTCVQKAT
YLDCAIKAIANNEADAISLDGGQAFEAGLAPYKLPKPIAAEVYEHTEGSTTSYYAVAVVKKG
TEFTVNDLQGKTSCHTGLGRSAGWNIPIGTL LHRGAI EWEGIESGSVEQAVAKFFSASCV
PGATIEQKLCRQCKGDPKTKCARNAPYSGYSGAFHCLKDGKGDVAFVKHTTVNENAPDQK
DEYELLCLDGSRQPVDNYKTCNWARVAHAVVARDNDKVEDIWSFLSKAQSDFGVDTKSD
FHLFGPPGKKDPVLKDLLFKDSAIMLKRVP SLMDSQLYLGF EYYS AIQSMRKDQLTPSPR
ENRIQWCAVGKDEKSKCDRWSVVSNGDV ECTVVDET KDCI IKIMKGEADAVALDGGGLVYT
AGVCGLVPVMAERYDDESQCSKTDERPASYFAVAVARKDSNVNWN NLKGKKSCHTAVGRT
AGWVIPMGLIHNRTGT CNFDEYFSEGCAPGSP PNSRLCQLCQGS GGIPPEKCVASSHEKY
FGYTGALRCLVEKGDVAFIQHSTVEENTGGKNKADWAKNLQMDDFELLCTDGRRANVMDY
REC NLAEVPTHAVVVRPEKANKIRDLLERQEKRFVNGSEKSKFMMFESQNKDLLFKDLT
KCLFKVREGTTYKEFLGDKFYTVISSLKT CNPSDILQMCSFLEGK

>accession|P49274.1|Putative Alpha-amylase (Allergen Der p 4)
(Der p IV) [Dermatophagoides pteronyssinus]
KYXNPHFIGXRSVITXLME

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

>accession|BAA04557.1|Allergen Mag44 [Dermatophagoides farinae]
FFFVAAKQQQPSTKMEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRA
LQKKIQQIENELDQVQEQLSAANTKLEEKALQTAEGDVAALNRR IQLIEEDLERSEER
LKIATAKLEEASQSADESERMRKMLEHRSITDEERMDGLENQLKEARMM AEDADRKYDEV
ARKLAMVEADLERAEERAETGESKIVELEEEELRVVGNNLKSLEVSEEKAQQREEAYEQQI
RIMTAKLKEAEARAFAERSVQKLQKEVDRLEDELVHEKEKYK SISDELDTFAELTGY

>accession|CAA64868.1|Allergen chitinase Ib [Castanea sativa]
MKLFSLLLFLAFLLLGTSAEQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSP
TTTTSSPTASSGGGDVGLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNGFG
TTGDVTRKRELA AFLAQTSHETTGGWATAPDGPYAWGYCFVMENNKQTYCTSKSWPCVF
GKQYYGRGPIQLTHNYNYGQAGKAIGADLINNPD LVATNPTISFKTAIWFWMTPQANKPS
SHDVIIGNWRPSAADTSAGRVPSYGVITNI INGGLECGHGSDDR VANRIGFYKRYCDTLG
VSYGNNLDCYNQKPFA

>accession|I53806|Allergen major allergen OLE16 - common olive
(fragment) [Olea europaea]
SQFH IQGQVYCDTCHARFITELSEFIPGAGVRLECRDGEKGSITFTEVGYTRAEGLYSML
IERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPLGFFKKEVL
PKCPQVFNKLGMYPPNM

>accession|E53806|Allergen major allergen OLE17 - common olive
(fragment) [Olea europaea]
QFH IQGQVYCDTCHARFITELSEFIPGASVRLQCREKENDITFTEIGYTRAEGLYSMLV
ERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALP
KCAQVYNKLGMYPPNM

>accession|F53806|Allergen major allergen OLE19 - common olive
(fragment) [Olea europaea]

QFHIQGQVYCDTCRAGFINELSEFIPGASVRLQCREKKNKDITFTEVGYTRAEGLYSMLV
ERDHKNEFCEITLISSGRKDCNEIPIEGWAKPSLKFILNTVNGTTRTINPLGFYKKEALP
KCAQVYNKLGMYPPNM

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

>accession|A38968|Allergen major allergen OLE20 - common olive
(fragment) [Olea europaea]
QFHIQGQVYCDTCRARFITEELSEFIPGAGVRLECRDGEKGSITFTEVGYTRAEGLYSMLI
ERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFILNTVNGTTRTINPLGFFKKEVLP
KCAPQVFNKLGMYPPNM

>accession|G53806|Allergen major allergen OLE26 - common olive
(fragment) [Olea europaea]
QFHIQGQVYCDTCRAGFITEELSEFIPGASVRLQCKEKNKDITFTEVGYTRAEGLYSMLV
ERDHKNEFCEITLISSGSKDCNEIPIEGWVKPSLKFILNTVNGTTRTVNPLGFYKKEALP
KCAQVYNKLGMYPPNM

>accession|B53806|Allergen major allergen OLE5c - common olive
[Olea europaea]
EDVPQPPVSQFHIQGQVYCDTCRARFITEELSEFIPGASVRLQCKDGENGSITFTEVGYTR
AEGLYSMLIERDHKDEFCEITLISSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

>accession|H53806|Allergen major allergen OLE6 - common olive
(fragment) [Olea europaea]
QFHIQGQVYCDTCRARFITEELSEFIPGAGVRLECKDGGKGSITFTEVGYTRAEGLYSMLI
ERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFILNTVNGTTRTINPLGFFKKEVLP
KCPQVFNKLGMYPPNM

>accession|CAA44343.1|Allergen fel d I chain 1 precursor with
leader B [Felis catus]
VRRSPSTLPYCCGHSRDCEICPAVKRDVDLFLTGTTPDEYVEQVAQYNALPVLLENARILK
NCVDAKMTEEDKENALSVDLKIYTSPLC

>accession|CAA44344.1|Allergen fel d I chain 1 precursor with
leader A [Felis catus]
EGGLCSRASLGCLALDLGWKDCEICPAVKRDVDLFLTGTTPDEYVEQVAQYNALPVLLENA
RILKNCVDAKMTEEDKENALSVDLKIYTSPLC

>accession|AAC80579.1|Putative allergen [Blomia tropicalis]
MPIEGKYKLEKSDNFDFLDELGVGFMVKTAAKTLKPTLEVDVQGDYVFRSLSTFKNTE
IKFKLGEFEEDRADGKRVKTVVNKEGDNKFIQTQYGDKEVKIVRDFQGDVVVTASVGD
VTSVRTYKRI

>accession|BAA07710.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
MASNKVVFSALLLIIVSVLAATGPMADHKKDQVVYSLGERCQPGMGYPMSLPRCRAVVK
RQCVATAHPAARGNEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMAE
VFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA07711.1|Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
GTRLLLLIIIVSVLAATRMMADHKKDQVVYSLGERCQPGMGYPMYSLPRCRAVVKRQCVGHG
APGGAVDEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMPMAEVFPGCRR
GDLERAAASLPAFCNVDIPNGTGGVCYWLGYTPRTPRTGH

>accession|BAA07712.1|Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVIPALLVVVSVLAATTTMADHHQEQQVYTPGQLCQPGIGYPTYPLPRCRAVFK
RQCVAPGTLDEQVRRGCCRLAGIDSSWCRCDALNHMLRIIYREERAADAGHPMAEVFRG
CRRGDIERAAASLPAFCNVDIPNGVGGVCYWLPGTGY

>accession|BAA07713.1|Putative allergenic protein [Oryza sativa (japonica cultivar-group)]
MASNKVVFVSVLLAVVSVLAATATMAEYHHQDQVVYTPAPLCQPGMGYPMYPLPRCRAV
KRQCVGRGTAATAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMSEV
FRGCRGDLERAAASLPAFCNVDIPNGGGVCYWLARSGY

>accession|CAA35188.1|Allergen trypsin inhibitor cme precursor [Hordeum vulgare]
MAFKYQLLLSAAVMLAILVATATSFGDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCCELSAIPAYCRCEALRIIMQGVVTWQGAFFEGAYFKDSPNCPREERQTSYAANL
VTPQECNLGTIHGSAYCPELQPAY

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

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

>accession|AAC49447.1|Allergen latex allergen [Hevea brasiliensis]
MASVEVESAAATLPPKNETPEVTKAEETKTEEPAAPPASEQETADATPEKEEPTAAPAEPE
APAPETEKAEEVEKIEKTEEPAPEADQTTPEEKPAEPEPVAEKEPKHETKETETEAPAAP
AEGEKPAEEKPI TEAAETATTEVPVEKTEE

>accession|AAC02632.1|Allergen cherry-allergen PRUA1 [Prunus avium]
MGVFTYESEFTSEIPPPRLFKAFLVLDADNLVPKIAPQAIAKHSEILEGDDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIIKSTSH
YHTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>accession|BAA08246.1|Putative Chaol [Chamaecyparis obtusa]
MASCTLLAVLVFLCAIVSCFSDNPIDSCWRGDANWDQNRMKLADCAVGFSSAMGGKGGG
FYTVTSSDDDPVNPAPGTLRYGATRERSLWIIIFSKNLNIKLNMPYIAGNKTIDGRGAEV
HIGNGGPCLFMRTVSHVILHGLNIHGCVTSVSGNVLI SEASGVVPVHAQDGDITMRNVT
DVWIDHNSLSDSSDGLVDVTLASTGVTISNNHFFNHHKVMLLGHSDIYSDDKSMKVTVAF
NQFGPNAGQRMPPRARYGLIHVANNNYDPWSIYAIGGSSNPTILSEGNSFTAPNDSKKEV
TRRVGCESPSTCANWVWRSTQDSFNNGAYFVSSGKNEGTVNIYNNNEAFKVENGSAAPQLT
KNAGVLTCLSKPCS

>accession|AAB09632.1|Allergen allergen [Periplaneta americana]
DIGDHYDIEANIGHYKYPHVVKNFISYYKKGLLPRGEPFSVYYEKHREQAIAIKLFFELFFAA

NDYDTFYKTACWARDRVNEGFMFYALTVAAFHREDTKDLVLPPEYVNPYLFVEDDVIQQ
AYKYWTKESGTDKHVEHVIPVNFARSQEDLVAYFREDVDLNAFNMYFRYIYPSWFNTTL
YGKSFDRRGEQFYTYHQIYARYFLERLSNSLDPVKPFQYSKPLKTGYNPHLRYHNGEEM
PARPSNMYPTNFDLFYVSDIKNYERRVEKAIDFGYAFDEHRTPYSLYHDQHGMDYLGQMI
EGTRNSPHQYFYGSVHFYRLLVGHVVDVPHKNGLAPSALEHPQTALRDPAFYQLWKRID
HIVQKYKNRLLPRYTYDELSFPGVKIENVVGVKLYTYFEHFEHSLGNAMYLGKLEDYMKAS
IRARHYRLNHKPFYTYNIEVSSDKAQDVYVRIFLGPKYDSLGHCELDERRHYFVEMDRFV
HKVEAGKTVIERKSHDSSIIISDSHDSYRNLFFKKVSDALQEKDQYYIDKSHKYCGYPENLL
LPKGGKGGQTFYVIVTPYVKQDEHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPFDRK
IHDYDFYTPNMYFKDVVIFHKKYDEVHVDTH

>accession|CAA65122.1|Allergen P8 protein [Parietaria judaica]
MRTVSMAALVVIAAALAWTSSAELASAPAPGEGPCGKVVHHIMPCLKFKVKGEEKEPSKSC
CSGTTKLLSEEVKTTEQKREACKCIVAATKGISGKIKNELVAEVPKCGITTTLPITADFD
CSKIESTIFRGYY

>accession|CAA65123.1|Allergen P9 protein [Parietaria judaica]
MRTVSAPSVALVIVAAGLAWTSLASVAPPAPAPGSEETCGTVVRALMPCLPFVQGKEK
EPSKGCCSGAKRLDGETKTGLQRVHACECIQTAMKTYSDIDGLVSEVPKHCGIVDSKLP
PIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGSPDPAHKARLERPQIRVPPPAPEKA

>accession|CAB02155.1|Allergen pollen allergen Bet v 1 [Betula
pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02156.1|Allergen pollen allergen Bet v 1 [Betula
pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02157.1|Allergen pollen allergen Bet v 1 [Betula
pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02158.1|Allergen pollen allergen Bet v 1 [Betula
pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
GGLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02159.1|Allergen pollen allergen Bet v 1 [Betula
pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02160.1|Allergen pollen allergen Bet v 1 [Betula
pendula]
MGVFNJETETTSVIPAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK

YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|CAB02161.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMRETLLRAVESYLLAHSDAYN

>accession|CAB02206.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAAEKMGAKEMA EKLLRAVESYLLAHTDEYN

>accession|CAB02207.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDNLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAAEEMKGAKEMA EKLLRAVESYLLAHTDEYN

>accession|CAB02208.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAAEKMGAKEMA EKLLRAVESYLLAHTDEYN

>accession|CAB02209.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAAEEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|CAB02213.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKFSYTVIEGDVLGDKLEKVSLELKIVAAPGGGSILKISGK
FHAKGDHEVNAAEEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|CAB02215.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVMPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKFSYTVIEGDVLGDKLEKVSLELTIVAAPGGGSILKISGK
FHAKGDHEVNAAEEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|CAB02216.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETTSVIPAAARLFKAFILDGNKLIPKVSPQAVSSVENVEGNGGGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKYSYTVIEGGFVGDKVEKICNEIKIVAAPDGGGSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>accession|CAB02217.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETTSVIPAAARLFKAFILDGNNLIPKVAPQAVSSVENVEGNGGGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKYSYTVIEGGPVGDKVEKICNEIKIVAAPDGGGSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>accession|AAB63099.1|Allergen cysteine proteinase inhibitor 10 precursor, partial [Solanum tuberosum]
TCHDDDNLVLPEVYDQDGNPLRIGERYIIKNPLLGGAGAVYLDNIGNLQCPNAVLQHMSIP
QFLGKGTTPVVFIRKSESDYGDVVRLMTAVYIKFFVKTTKLCVDETVWVKVNEQLVVTGGN
VGNENDIFKIKKTDLVIRGMKNVYKLLHCPHLECKNIGSNFKNGYPRLVTVNDEKDFIP
FVFIKA

>accession|AAC48691.1|Putative Equ c1 [Equus caballus]
MKLLLLLCLGLILVCAQQEENSVAIRNFDISKISGEWYSIFLASDVKEKIEENGSMRVFV
DVIRALDNSSLYAEYQTKVNGECTEFPMVFDKTEEDGVYSLNYDGYNVFRISEFENDEHI
ILYLVNFDKDRPFQQLFEFYAREPDVVSPEIKEEFVKIVQKRGIVKENIIDLTKIDRCFQLR
GNGVAQA

>accession|AAB62731.1|Allergen allergen [Periplaneta americana]
LNAFNMYFRYIYPTWFNTTLYGKTFDRRGEQFYTYHQIYARYFLERLSNSLPDVKPFQY
SKPLKTGYNPHLRYQNGEEMPARPSNMYPTNIDLFYVSDIKNYESRVEKAIDFDAFDEHR
TPYSLYHDQHGM DYLGQMIEGTSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALE
HHQTALRDPAFYQLWKRIDHIVQKYKNRLLPRYTYDELSFPGVKIENVDVGKLYTYFEHFE
HSLGNAMYLGKLEDVLANIRARHYRLNHKPFYTYNIEVSSDKAQDVYVRIFLGPKYDSL
GHECELDERRHYFVEMDRFVHKVEAGKTVIERKSHDSSIISDSHDSYRNLFFKVS DALEGK
DQYYIDNSHKYCGYPENLLLPGKGGQTFTFYVIVTPYVKQDEHDLESYHYKAFTYCGV
GHRKYPDDKPLGFPFDRKIH DYDFYTPNMYFKDVVIFHKKYDEVHNETN

>accession|AAB63595.1|Allergen allergen [Periplaneta americana]
EMPARPSNMYPTNIDLFYVSDIKNYESRVEKAIDFGYAFDEHRTPYSLYHDQHGM DYLGQ
MIEGTSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALEHHQTALRDPAFYQLWKR
IDHIVQKYKNRLLPRYTYDELSFPGVKIENVDVGKLYTYFEHFEHSLGNAMYIGKLEDLLK
ANIRASHYRLNHKPFYTYNIEVSSDKAQDVYVRIFLGPKYDSLGHCELDERRHYFVEMDR
FVHKVEAGKTVIERKSHDSSIISDSHDSYRNLKVVADALEEKDQYYIDKSHKYNYPEN
LLLPGKGGQTFTFYVIVTPYVKQEQHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPFDR
RKIH DYDFYTPNMYFKDVVIFHKKYDEVHEVTH

>accession|2118249A|Putative allergen Lep d 1.01 [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRGKMTLEAKFAANQ
DTAKVTIKVLAKVAGTTIQVPGLETDGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAEIIGDHGVMACGTVHGVQE

>accession|2118249B|Putative allergen Lep d 1.02 [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETDGCKVLKCPVKKGEALDFNYGMTIPAITPKIKADV
TAEIVGDHGVMACGTIHGVQE

>accession|2118271A|Allergen allergen PhI p I [Phleum pratense]
MASSSVLLVVALFAVFLGSAHGIPKVP GP NITATYGDKWLDAKSTWYGKPTAAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAAYHFDSLGI AFGSMAKKGDEQKLR SAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFSGDGDVVAVDIKEK GKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGG
TKARAKDVIPEGWKADTAYESK

>accession|2206305A|Putative major allergen Myr p II [Myrmecia pilosula]
MKLSCLLLTLAII FVLTIVHAPNVEAKALADPESDAVGFADAVGGADPIDWKKVDWKKVS

KKTCKVMLKACKFLG

>accession|2209273A|Putative Zm13 [Zea mays]
MASVPAPATTTAAVILCLCVVLSCAAADDPNLPDYVIQGRVYCDTCRAGFVTNVTEYIAG
AKVRLECKHFGTGKLERAIIDGVTDATGTYTIELKDSHEEDICQVVLVASPRKDCDEVQAL
RDRAGVLLTRNVGISDSLRPANPLGYFKDVPLPVCAALLKQLDSDDDDDDQ

>accession|1ESF_B|Allergen Chain B, Staphylococcal Enterotoxin A
[Staphylococcus aureus]
SEKSEEINEKDLRKKSELQGTALGNLQIYYYYNEKAKTENKESHQFLQHTILFKGFFTD
HSWYNDLLVDFDSKDIVDKYKGGKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT
EEKKVPINLWLDGKQNTVPLETVKTNKKNVTVQELDLQARRYLQEKYNLYNSDVFDGKVQ
RGLIVFHTSTEPSVNYDLFGAQQQYNTLLRIYRDNKTINSENMHIDIYLYTS

>accession|AAB60779.1|Allergen manganese superoxide dismutase
[Aspergillus fumigatus]
GTSPIQTPINTMSQQYTLPPLPYDALQPYISQQIMELHKKKHHQTYVNGLNAALEAOK
KAAEATDVPKLVSVQQAIFNGGGHINHSFLWKNLAPEKSGGGKIDQAPVLKAAIEQRWG
SFDKFKDAFNNTLLGIQGGSGWGLVTDGPKGKLDITTTTHDQDPVTGAAPVFGVDMWEHAY
YLQYLNDKASYAKGIWNVINWAEENRYIAGDKGGHPFMKL

>accession|BAA13604.1|Allergen crl6 [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKDGGAGTVRIITLPE
GSPITSMVVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVVPTADGGSITKTTAIF
HTKGDVAVPEENIKFADAQNTALFKAIEAYLIAN

>accession|CAB05371.1|Allergen major allergen Phl p 5 [Phleum
pratense]
AVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGFKAAVAAAAS
VPAGDKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAAYKAAVGATPEAKFDSFVASLT
EALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKAATAAATAPADDKFTV
FEAAFNKAIKESTGGAYDXYKCIPLSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAITAM
SEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>accession|CAB05372.1|Allergen major allergen Phl p 5 [Phleum
pratense]
ADLGYGGPATPAAPAEAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAEESSSKGALTSKLEAAYKLAYKTSEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAEEVKVIPAGELQFIEKVDSALKVAATAANAAAANDKFTVF
EAAFNHAIKASTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

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

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

>accession|P02222.2|Putative Globin CTT-II beta precursor
[Chironomus thummi thummi]
MKFLVLALCIAAAVAAPLSADEASLVRGSAQVKHSEVDILYYIFKANPDIMAKFPQFAG

KDLETLKGTGQFATHAGRIVGFVSEIVALMGNSANMPAMETLIKDMAANHKARGIPKAQF
NEFRASLVSYLQSKVSWNDSLGAAWTQGLDNVFNMMFSYL

>accession|P02223.2|Putative Globin CTT-IX precursor [Chironomus
thummi thummi]

MKFFIVLALCIVGAIADPVSSDQANAI RASWAGVKHNEVDILAAVFS DHPDIQARFPQFA
GKDLASIKDTGAFATHAGRIVGFISEIVALVGNESNAPAMATLINELSTSHHNRGITKGO
FNEFRSSLVSYLSSHASWNDATADAWTHGLDNIFGMIFAHL

>accession|P80198.1|Allergen RecName: Full=Gamma-hordein-3
[Hordeum vulgare]

ITTTTMMQFNPSGLELERPQQQLFPQWQPLPQQPPFLQQEPEQPYPQQQPLPQQQPPFPQQPQ
LPHQHQPFPQQLPQQQFPQQMPLPQQQFPQQMPLPQQQFPQQKPFQYQQPLTQQPY
PQQQPLAQQQPSIEEQHQLNLCKEFLQCTLDKQVLLQSVISFLRPHISQQNSCQLKR
QQCCQQLANINEQSRCPAIQTIVHAIVMQQQVQQQVGHGFVQSQLQQLGQGMPIQLQQQP
GQAFVLPQQQAQFKVVGSLVIQTLPLMPCNVHVPYCSFPGSMATGSGGQ

>accession|P53357.1|Allergen Phospholipase A1 2 (Allergen Dol m
1.02) (Dol m I) [Dolichovespula maculata]

GILPECKLVPEEISFVLSTRENDRGVYTLTLQKLKNGKMFKNSDLSSKKVPFLIHGFISSA
TNKNYADMTRALLDKDDIMVISIDWRDGACSNFALLKFIGYPKAVENTRAVGKYIADFS
KILIQKYKVLLENIRLIGHSLGAQIAGFAGKEFQRFKLGKYPEIIGLDPAGPSFKKDCP
ERICETDAHYVQILHTSSNLGTERTLGTVDYINDGSNQPCTYIIGETCSHTRAVKYLT
ECIRRECLIGVPPQSKNPQPVSKCTRNECVGLNAKEYPKKGSFYVPVEAKAPFCNNNG
KII

>accession|P51528.1|Allergen Phospholipase A1 (Allergen Ves m 1)
(Ves m I) [Vespula maculifrons]

GPKCFNSDVTVSIIETRENRRDLTYTLQTLQNHPEFKKKTITRPVVFITHGFTSSASEK
NFINLAKALVDKDNMVISIDWQTAACNEYPGLKYAYYPTAASNTRLVGYIATITQKL
VKDYKISMANIRLIGHSLGAHVSGFAGKRVQELKLGKYSEIIGLDPARPSFDSNHC SERL
CETDAEYVQIIHTSNYLGTTEKILGTVDYMNNGKNNPGCGRFFSEVCSHTRAVIYMAECI
KHECCLIGIPRSKSSQPISRCTKQECVVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

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

AALLVALLFVANAAAFRTTITTTMEIDEDIDNPRRRGEGCREQIQRQQNLNHCQYYLRQOS
RSGGYDEDNQRQHFRQCCQQLSQMDEQCCEGLRQVRRRQQQQGLRGEEMEEMVQSARD
LPNECGISSQRCEIRRSWF

>accession|AAB42069.1|Allergen non specific lipid transfer
protein [Solanum lycopersicum]

MEMFGKIACFVVFCMVVAPHAESLSCGEVTSGLAPCLPYLEGRGPLGGCCGGVKLLGA
AKTPEDRKTACTCLKSAANSIKGIDTGKAAGLPGVCGVNIPYKISPSTDCSTVQ

>accession|AAB42200.1|Putative Dac gIII allergen [Dactylis
glomerata]

VKVTFKVEKGS DPKKLVLDIKYTRPGDTLAEVELRQH GSEWEPLTKKGNLWEVKSSKPL
TGPFNFRFMSKGMNRNVFDEVIPTAFKIGTTYTPEE

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

ATGKVVQDIMPPLLFFVQGKEKPSS

>accession|AAB46820.1|Putative Par o 1b=basic allergen isoform

{N-terminal} [Parietaria officinalis]
GPXGKVVHIIIMPPLKFKVKGEESEF

>accession|AAB47552.1|Allergen major allergen Alt a 1 subunit
[Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNLSLGF
NIKATNGGTLDFTCQAQADKLEDHKWYSCGENSFMDFSFSDSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGGNGPKDFVCQGVADAYITLVTLPKSS

>accession|AAB48041.1|Putative ribosomal P2 phosphoprotein
[Alternaria alternata]
MKHLAAYLLLGLGGNTSPSAADVKALESVGI EADSDRLDKLISELEGKDINELIASGPE
KLASVPSGGAGGAAAASGGAAAAGGSAEAEAAPEAAKEEEKEESDEDMGFGLFD

>accession|CAA62634.1|Putative calcium-binding pollen allergen
[Cynodon dactylon]
KTMADTGDMEHIFKRFD TNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFID
FDEFISFCNANPGLMKDVAKVF

>accession|CAA72273.1|Putative serpin [Triticum aestivum]
MATTLATDVRLSIAHQTRFALRLASTISSNPKSAASNAAFSPVSLHSALSLLAAGAGSAT
RDQLVATLGTGEVEGGHALAEQVVQFVLADASSAGGPRVAFANGVFVDASLLLKPSFQEL
AVCKYKAETQSVDFQTKAAEVTTQVNSWVEKVTSGRIKNILPSGSVDNTTKLVLANALYF
KGAWTDQFDSYGTKNDFYLLLDGSSVQTPFMSSMDDDQYI SSSDGLKVLKLPYKQGGDNR
QFSMYILLPEAPGGLSSLAEKLSAEPDFLERHIPRQRVAIRQFKLPKFKISFGMEASDLL
KCLGLQLPFSDEADFSEMVDSPMPQGLRVSSVFHQAFVEVNEQGT EAAASTAIKMVPQQA
RPPSVMDFIADHPFLFLLREDISGVVLFMGHVVNPLLS

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

>accession|AAC27724.1|Allergen latex patatin homolog [Hevea
brasiliensis]
MATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLDLDGPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LREL CNLLKDLTVKDTSTDV IIPTFDIKLLLPVIFPSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLAL THIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDSHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGH IATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>accession|AAB58417.1|Allergen 30 kDa salivary gland allergen Aed
a 3 [Aedes aegypti]
MKPLVKLFLFLFCLVGI VLSRPMPEDEEPVAEGGDEETTTDDAGGDGGEENE GEEHAGDED
AGGEDTGKEENTGHEDAGEEDAGEEDAGEEDAEKEEGEKEDAGDDAGSDDGEEDSTGGDE
GEANAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEYLR SALNNDLQSEVRVPVVEA
IGRIGDYSKIQGCFFKSMGKDVKKVISEEKKFKSCMSKKKSEYQCEDSFAAAKSKLSPI
TSKIKSCVSSKGR

>accession|S65144|Putative pollen allergen group II (clone 42) -
rape [Brassica napus]
MADATEKTEHDRFFKFDANGDGTISSTELGDALKNLG SVTHDDIKRMMAEIDTDGDGFI
SYQEFSDFAKANRGLMKDVAKIF

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

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

>accession|CAA73782.1|Putative cellular serine proteinase [Aspergillus fumigatus]
MKGYSLSILPLLVAAASPVVVDSIHNGAAPILSSMNAKEVPDSYIVVFKKHVNAESAAAH
HSWVQDIHSAQNERVELRKRSFLGFGEAYLGLKNTFDIAGSLVGYSGHFHEDVIEQVRK
HPDVEYIEKDSEVHTMEDPTVEKSAPWGLARISHRDSLSFGTFNKYLYASEGGEGVDAYT
IDTGINVHVDFEGRAQWGKTIPTDDEDADGNHGHGTHCSGTIAGRKYGVAKKANLYAVKV
LRSSSGSGTMSDVVAGVEWAVKSHLKKVKDAKDGIKGFKGSVANMSLGGGKSRTLEAAVN
AGVEAGLHFVAAGNDNADACNYSPAAAENPITVGASTLQDERAYFSNYGKCTDIFAPGL
NILSTWIGSKHAVNTISGTSMASPHIAGLLAYFVSLQPSKDSAFVADELTPKKLKKDIIA
IATQGALTDIPSDTPNLLAWNGGSSNYTDIIASGGYKVNASVKDRFEGLVHKAEKLLTE
ELGAIYSEIHDAAVA

>accession|CAA69670.1|Putative profilin 1 [Cynodon dactylon]
MSWQAYVDDHLMCEIEGHHLTSAAIIGHDGTVWAQSAAFPAPFKPEEMANIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPGA VIRGKKGSGGVTVKKTGQALVIGIYDEPMPGQCNMVE
KLGDYLIEQGM

>accession|CAB03715.1|Allergen major allergen [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAATGAYKSVEVKDGGAGTVRIITLPE
GSPITMTVRTDAVNKEALSVDSTVIDGDILLGFIESIETHMVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>accession|CAB03716.1|Allergen major allergen [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKDGGAGTVRIITLPE
GSPITSMVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADEQNTALFKAIEAYLIAN

>accession|CAB06416.1|Allergen major allergen Dau c 1/1 [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVEVKDGGAGTVRIITLPE
GSPITSMVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVPTADGGSITKTTAIF
HTKGDAVVPEENIKFADAQNTALFKAIEAYLIAN

>accession|CAB06417.1|Putative xylosidase [Aspergillus niger]
MAHMSRPVAATAAALLALALPQALAQANTS YVDYNI EANPDLYPLCIETIPLSFPDCQN
GPLRSHLICDETATPYDRAASLISLFTLDELIANTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGAYNWATSFPPILTTAALNRTLHQAIIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAVYAYEYITGIQGPDPESNLKLAATAKHYAGYDIENW
HNHSRLGNDMNI TQQDLSEYYTPQFHVAARDAKVQSVMCAYNAVNGVPACADSYFLQTL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAAEAILAGTDIDCGTTYQWHLNESI
AAGDL SRDDIEQGVIRLYTTLVQAGYFDSNTTKANNPYRDLSDVLETDAWNISYQAAT
QGIVLLKNSNNVLP LTEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAAQSADVI IYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLSAAGKKPLIVLQMGGGQVDSSSLKNNTNVSALLWGGYPGQSGGFALRDIITG

KKNPAGRLVTTQYPASYAEFFPATDMNLRPEGDNPGQTYKWYTGEAVYEFHGHLFYTTFA
ESSNNTTTKEVKLNIQDILSQTHEDLASITQLPVLNFTANIRNTGKLESDYTAMVFANTS
DAGPAPYPKKWLVGWDRLGEVKVGETRELVRPVEVGSFARVNEDGDWVVPFPGTFELALNL
ERKVRVKVLEGEVVLKWPGE

>accession|CAA73221.1|Putative group 2 allergen [Tyrophagus
putrescentiae]
MKFLILFALVAVAAAGQVKFTDCGKKEIASVAVDGCEGDLCVIHKS KPVHVIAEFTANQD
TCKIEVKVTGQLNGLEVPIPGIETDGCKVLKCPKKGTKYTMNYSVNVPSVVPNIKTVVK
LLATGEHGV LACGAVNTDVKP

>accession|AAC34736.1|Allergen Cr-PII allergen [Periplaneta
americana]
INEIHSI IGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETS PDFKAL
YDAIRSPEFQSIISTLNAMQRSEHHQNL RDKGVDVDHFIQLIRALFGLSRAARNLQDDL
DFLHSLEPISPRHRHGLPRQRRRSARVSAYLHADD FHKIITTI EALPEFANFYNFLKEHG
LDVVYINEIHSI IGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETS
PDFKALYDAIRSPEFQSIISTLNAMPEYQELLQNL RDKGVDVDHFIRVDQGT LRTLSSGQ
RNLQDDLNDFLALIP TDQILAIAMDYLANDAEVQELVAYLQSDDFHKIITTI EALPEFAN
FYNFLKEHGLDVVYINEIHSI IGLPPFVPPSQRHARRGVGINGLIDDVIAILPVDELKA
LFQEKLETS PDFKALYDAIDLRSRA

>accession|AAC34737.1|Allergen Cr-PII allergen [Periplaneta
americana]
VGVDGLIDDIIAILPIDDLKALFQEKLETS LDFKAFYDAVRSPEFQSI VQTLNAMPEYQD
LLQKLRDKGVDVDHYIELIRALFGLTREARNLQDDLNDFLALIP TDQILAIAMDYLANDA
EVQELVAYLQSDDFHKIINTI EALPEFANFYNFLKGHGLDVANYINEIHSI IGLPPFVPP
SRRHARRGVGINGLIDDVIAILPVDELKTLFQEKLETS PDFKALYDAIRSPEFQSIISTL
NAMPEYQELLQNL RDKGVDVDHFIELIRSWFGLP

>accession|CAB10766.1|Allergen group V grass pollen allergen
[Holcus lanatus]
QKLLLEDVNASFKA AVAAAKVPPADKYKTF LRAFTVLD RGSTEQSKAEETKMPELSSKLV
DAYMAAFKASTGGTQEAKYDAFVTTL TEALRVIAGALEVHAVKPA TEVPAAKIPAGDLQ
VVDKIDASFKIAATAANAAPANDKFTVFETAFNKALKESTGGAYESYKFIP SLEAAVKQA
YASTVAAPEVKYAVFEAALTKAITAMSQAQKVAQPAAAATGAATVAAGAATTAAGGYKV

>accession|CAB10765.1|Allergen group V allergen [Holcus lanatus]
ADAGYTPAAPAAAGAGGKATTDEQKLLLEDVNAGFKTAVAAAANVPPADKYKTFEAAFTAS
SKASIAAAATKAPGLIPQLNAATNTAYAAAQGATPEAKYDAFVTTL TEALRVIAGALEVH
AVKPA TEVGAAKIPAGELQIVDKIDAAFRIAATAANAAPVNDKFTVFEGAFNKAIKEST
GGAYEAYKFIP SLETAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKEAKPVA
TGAATAAAGVAAGAATAAAGGYKV

>accession|AAB66909.1|Putative pollen allergen [Olea europaea]
DEAQFKECYDTCHKECSDKGN GFTFC EMKCDTDCSVKDVKEKLENYKPKN

>accession|AAB65434.1|Putative sol i 3 antigen [Solenopsis
invicta]
MELIVSILWLAITAENLANTLATNYCNLQ SCKRNNAIHTMCQYTSPTPGPMCLEYSNVGF
TDAEKDAIVNKHNE LRQRVASGKEMRGTNGPQPPAVKMPNLTWDP ELATIAQRWANQCTF
EHDACRNVERFAVGQNI AATSSSGKNKSTPNEMILLWYNEVKDFDNRWISSF PSDDNILM
KVGHYTQIVWAKTTKIGCGRIMFKEPDNWT KHYLVCNYGPAGNVLGAPIYEIKK

>accession|AAB72147.1|Allergen allergen Bla g 5 [Blattella

germanica]
YKLTYPVKALGEP IRFLLSYGEKDFEDYRFQEGDWPNLKPSMPFGKTPVLEIDGKQTHQ
SVAISRYLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQP NLKALRE
KVLGLPAIKAWVAKRPPTDL

>accession|AAB69424.1|Allergen tropomyosin [Dermatophagoides
pteronysinus]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHR SITDEERMEGLENQLKEARMMADADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTF AELTGY

>accession|CAA50281.1|Allergen Major Pollen Allergen Phl p Va
[Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLI EKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAF AEGLSGEPKGAAESSSKAALTSKLDAAAYKLAYKTAEGATPE
AKYDAYVATLSEALRI IAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANA
APANDKFTVFEEAFNDEIKASTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAA81609.1|Allergen pollen allergen PhlpVb [Phleum
pratense]
AAAAVPRRGPGRGPRSYTADAGYAPATPAAAGAAAGKATTEEQKLI EDINVGFKAAVAA
AASVPAADKFKTFEAAFTSSSKAAAAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVA
SLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQI IDKIDAAFKVAATAAATAPADDK
FTVFEEAFNKAIKESTGGAYD TYKCIP SLEAAVKQAYAATVAAAPQVKYAVFEAALTKAI
TAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|CAA96545.1|Allergen major allergen Bet v 1 [Betula
pendula]
MGVFN YETETTSVIPAAARLFKAFFLDGDNLFKVPVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFRYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKEEQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA70608.1|Putative profilin 2 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAA I LGH DGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMIQGE PGAVIRGKKGAGGITIKKTGQALVVG IYDEPMT PGQCNMVVE
RLGDYLVEQGM

>accession|CAA70609.1|Putative profilin 3 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAA I FGH DGTVWAQSADFPQFKPEEITGIMKDLDEPGHL
APTGMFVAAAKYMIQGE PGAVIRGKKGAGGITIKKTGQALVVG IYDEPMT PGQCNMVVE
RLGDYLVEQGM

>accession|CAA75141.1|Allergen tropomyosin [Dermatophagoides
pteronysinus]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHR SITDEERMEGLENQLKEARMMADADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSISDELDQTF AELTGY

>accession|AAD13683.1|Allergen major allergen Mal d 1 [Malus x

domestica]

MGVYTFENEYTS EIPPPRLFKGFVLDADNLIPK IAPQA I KHAEILEG DGGPGTIKKITFG
EGSQYGYVKKH KIDSVD EANYSYAYTLIEGDALTD TIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>accession|CAA73038.1|Allergen Ole e 1.0102 protein [Olea europaea]

MEDVPPVVSQFHIQGVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DVTTFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNP
LRFYKKEALPKCAQVYNKLGMYPPNM

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

MEDVPPVVSQFHIQGVYCDTCRAGFITELSEFIPGASVRLQCKDKENG DVTTFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILSTVNGTTRTVNP
LGFYKKEALPKCAQVYNKLGMYPPNM

>accession|CAA73036.1|Allergen Ole e 1 protein [Olea europaea]

MEDVPPVVSQFHIQGVYCDTCRSRFITELSEFIPGASVRLQCREKENG DITFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNP
LGFFKKEALPKCAQVYNKLGMYPPNM

>accession|CAA73035.1|Putative profilin 1 [Olea europaea]

MSWQAYVDDHLMCDIEGHEDHRLTAAAI VGH DGSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYE E PVT PGQCNM
VVERLGDYLVEQGM

>accession|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

>accession|Q28133.1|Putative Allergen Bos d 2 precursor (Dander
major allergen BDA20) (Dermal allergen BDA20) [Bos taurus]

MKAVFLTLFLGLVCTAQETPAEIDPSKIPGEWRIIYAAADNKDKIVEGGPLRNYRRIEC
INDCESLSITFYLKDQGTCLLLTEVAKRQEGYVYVLEFYGTNTLEVIHVSENMLVTVYVEN
YDGERITKMTEGLAKGTSFTPEELEKYQQLNSERGVNENIENLIKTDNCPP

>accession|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
CSGTTKLSEEVKTTEQKREACKCIVRATKGISGKINELVAEVPKCDIKTTLPITADFD
CSKIQSTIFRGGY

>accession|Q41260.1|Putative Major pollen allergen Pha a 1
precursor (Pha a I) [Phalaris aquatica]

MMKMVCS SSSSSLLVVAALLAVFVGS AQGI AKVPPGNITAEYGDKWLDAKSTWYGKPTG
AGPKDNGGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFELKCSKPESCSGEPITVH
ITDDNEEPIAPYHFDLSGHAFGSM AKK GEEENVRGAGELELQFRRVKCKYDPGDKPTFHV
EKGSNPNYLALLVKYVDGDVVAVDIKEKGKDKWIELKESWGAIWRIDTPDKLTGPFTV
RYTTEGGTKAEFEDVIPEGWKADTHDASK

>accession|P56164.1|Putative Major pollen allergen Pha a 5.1 precursor (Pha A 5) (Clone 28) [Phalaris aquatica]
MAVQKYTMALFLAVALVAGPAAPTPTPTPTPLLPPTPRARDKATLTSRSVEDINAASRRP
WWASVPPADKFKTFADHVLCPNADVTSATKAPQLKAKLDAAYRVAYEAAEGSTPEAKY
DAFIAALTEALRVIAGAFEVHAVKPATEEEVVADPVGELQIVDKIDAAFKIAATAANSAPA
NDKFTVFEGAFNKAIKESTAGAYETYKFIPLSLEAAVKQAYGATVARAPEVKYAVFEAGLT
KAITAMSEAQKVAKPPLSPQPPQVLPPLAAGGAATVAAASDVRVCRSHGTLQDACLLRCRG
GCQPVVWRGGSHRARGGYKV

>accession|P56165.1|Putative Major pollen allergen Pha a 5.2 precursor (Pha a 5) (Clone 14) [Phalaris aquatica]
MAVQKYTVLFLAVALVAGPAALYAGDGYAPATPAASATLATPATPAASPOHAGTTEYHI
VRKAGLNEEKNAARQTDDEQKRSDEINCPDFNKSVMHCRADRLPVCSSSTSAHSSKQDVAVM
LGYGSIQGFMSDDASVGSVSSEFHVIESAIEVITYIGEEVKVIPAGEVEVINKVKAFFST
AATAADEAPANDKFTVFVSSFNKAIKETTGGAYAGYKFIPTLEAAVKQAYAASSATAPEV
KYAVFETALKKAISAMSEAQKEAKPAAISAATTTISASTATPAAPPPPQLGTATPAAVA
GGYKV

>accession|P56166.1|Putative Major pollen allergen Pha a 5.3 precursor (Pha a 5) (Clone 29) [Phalaris aquatica]
MAVQKYTVLFLAMALVAGPAASYAADAGTPTPATPAVPGAAAGKATTHEQKLIEDINA
AFKWWPASAPPADKYKTFETAFSKANIAGASTKGLDAAYSVVYNTAAGATPEAKYDSFVT
ALTEALRIMAGTLEVHAVKPATEEEVPSAKILRANRSSTRSSRFKIAATVATPLSHSTA
ANSAPANDKFTVFEGAFNKAIKERHGGPTETYKFIPLSLEAAVKQAYGATVARAPEVKYAV
FEAGLTKAITAMSEAQKVAKPVRLSPQPPQVLPPLAAGGAATVAAASDSRGGYKV

>accession|P56167.1|Putative Major pollen allergen Pha a 5.4 (Pha a 5) (Clone 5) [Phalaris aquatica]
AKYDAFIAALTEALRVIAGAFEVHAVKPATEEVPAAKIPAGELQIVDKIDAAFKIAATAA
NSAPANDKFTVFEGAFNKAIKERHGGAYETYKFIPLSLEASRSKQAYGATVARAPEVKYAV
FEAGLTKAITAMSEAQKVAKPVRSVTAAGAATAAGGAATVAASRPTSAGGYKV

>accession|P02221.2|Putative Globin CTT-I/CTT-IA precursor (Erythrocrucorin) [Chironomus thummi thummi]
MKFLILALCVAAAMAGPSGDQIAAAKASWNTVKNQVDILYAVFKANPDIQTAFSQQFAGK
DLDSIKGTPDFSKHAGRVVGLFSEVMDLLGNDANTPTILAKAKDFGKSHKSRASPAQLDN
FRKSLVVYLKGGATKWDSSAVESSWAPVLDVVFSTLKNEL

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

>accession|CAA05186.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA05187.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA05188.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA05190.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|AAB82404.1|Allergen Cr-PII [Periplaneta americana]
MKLPIMILAVLGVAFGKSLPNRNLQDDLNDLFLALLPVDEITAIVMDYLANDAEVQAEVAV
LQGEFHKIVFTVEGLQEFGNFVQFLEDHGLDAVGYINRLHSVFGWDPYVPSKRKHTRR
GVGVDGLIDDI IAILPIDDLKALFQEKLETSPDFKAFYDAVRSPEFQSI VQTLNAMPEYQ
DLLQKLRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDLFLALIPDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIINTIEALPEFANFYNFLKGHGLDVADYINEIHSIIGLPPFVFP
PSRRHARRGVINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLRDKAVDVDHFIELIRSLFGLP

>accession|AAC48794.1|Allergen Can f 1 [Canis lupus familiaris]
MKTLLLTIGFSLIAILQAQDTPALGKDTVAVSGKWYLKAMTADQEVPEKPD SVTPMILKA
QKGGNLEAKITMLTNGQCQNITVVLHKTSEPGKYTAYEGQRVVF IQPSPVRDHYILYCEG
ELHGRQIRMAKLLGRDPEQSQEALEDFREFSRAKGLNQEILELAQSETCSPGGQ

>accession|AAC48795.1|Allergen Can f 2 [Canis lupus familiaris]
MQLLLLTVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHRVFI
HSMSAKDGNLHGDI LIPQDQCEKVS LTAFKTATSNKFDLEYWGHNDLYLAEVDPKSYLI
LYMINQYND DTSLV AHLMVRDL SRQQDFLPAFESVCE DIGLHKDQIVVLSDDDR CQGSRD

>accession|AAB86960.1|Putative profilin [Zea mays]
MSWQAYVDEHLMCEIEGQHLSAAAIVGHGDSVWAQSESFPELKPEEVAGI IKDFDEPGTL
APTGLFVGGTKYMIQGEPEGVVIRGKKGTTG GITIKKTGMSLIIGVYDEPMP TPGQCNMVVE
RLGDYLIEQGF

>accession|AAC48287.1|Allergen slow tropomyosin isoform [Homarus americanus]
MDAIIKKMQAMKLEKDNAMDRADTLEQQNKEANIRA EKTEEEIRITHKKMQQVENELDQV
QEQLSLANTKLEEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSEL SGY

>accession|AAC48288.1|Allergen fast tropomyosin isoform [Homarus americanus]
MDAIIKKMQAMKLEKDNAMDRADTLEQQNKEANIRA EKSEEEVHNLQKRMQQLENDLDQV
QESLLKANTQLEEKDALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSEL SGY

>accession|AAB97141.1|Allergen major allergen protein homolog [Prunus armeniaca]

MGVFTYETEFTSVIPPEKLFKAFILDADNLI PKVAPTAVKGT EILEG DGGVGTIKKVTFG
EGSQYAYVKHRVDGIDKDNLSYSYTLIEGDALSDVIENIAYDIKLVASPDGGSIVKTTSH
YHTKGDVEIKEEQVKAGKEKAAGLFLVEAYLLANPDAYN

>accession|AAD13644.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKDLQAKILYYYDELEGDAKKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPAC
KKIFAAAHTSRRRR

>accession|AAD13645.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKDLQAKILHYYDELEGDAKKEATEHL
KDGCREILKHVVGEEKEAELKPKDSGASKEEVKTKVEEALHAVTDEEKKQYIADFGPAC
KKIFGAAHTSRRRR

>accession|AAD13646.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKDLQAKILHYYDELEGDAKKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPAC
KKIFGAAHTSRRRR

>accession|AAD13647.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKELEAKILHYYDELEGDAKKEATEHL
KGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIADFGPAC
KKIYGVHTSRRRR

>accession|AAD13649.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HHFTLESSLDTHLKWLSQEQKDESLKMKKGGKAKKELEAKILHYYDEPEGD AKKEATEHL
KGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVIDEEKKQYIADFGPAC
KKIFGVHTSRRRR

>accession|AAD13650.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKYLSWLTEEQKEKLEKEMKEAGQTKAEIQHEVMHYDQLHGEEKQQATEKLV
GCKMLLKGII GEEKVVELRNVKEAGADIQELQOKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYD
ELEGDAKKEATEHLKGGCPEILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTD
EKKQYIADFGPACKKIYGVHTSRRRR

>accession|AAD13651.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMRYDQLHGEEKQQATEKLV
GCKMLLKGII GEEKVVELRNMKEAGADIQELQOKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYD
ELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTD
EKKQYIADFGPACKKIYGVHTSRRRR

>accession|AAD13652.1|Putative ABA-1 allergen [Ascaris lumbricoides]
HTMEHYLKYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMHYDQLHGEEKQQATEKLV
GCKMLLKGII GEEKVVELRNMKEAGADIQELQOKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKELEAKILHYYD

ELEGDAKKEATEQLKGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTD
EKKQYIADFGPACKKIYGVHTRSRRR

>accession|AAB93837.1|Putative ABA-1 allergen [Ascaris
lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMRYDQLHGEEKQQATEKLV
GCKMLLKGIIIGEEKVVELRNMKEAGADIQELRQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRR

>accession|AAB93839.1|Putative ABA-1 allergen [Ascaris
lumbricoides]
HTMEHYLKTYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMHFYDQLHGEEKQQATEKLV
GCKMLLKGVIIGEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKK
IFGATTLQHRRR

>accession|AAC67308.1|Putative 22.6 kDa tegumental antigen
[Schistosoma japonicum]
MATTEYRLSLMEQFIRAFIEIDKDNNELIDKQELTKYCQQNQMDMKQIDPWIA RFDTDKD
GKVSLEEFRCRFGFLKVWEVRREKEELKKDKEGKVSTLPLDIQIIAATMSKAKQYNICCKF
KELLDKTSRTGDEVRAVANDLKAFLDSEYGRVWQVIILTGSYWMNFSHEPFLSMQFKYSN
YVCLLWRT PSS

>accession|AAB95638.1|Allergen peroxisomal-like protein
[Aspergillus fumigatus]
MSGKAGDSFSDVVFVSYIPWSEDKGEITACGIPINYNASKEWADKKVILFALPGAFTPV
CSARHVPEYIEKLP EIRAKGVDVVAVLAYNDAYVMSAWGKANQVTGDDILFLSDPDARFS
K SIGWADEEGRTKRYALVIDHGKITYAALEPAKNHLEFSSAETVLKHL

>accession|AAB99797.1|Putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
MASNKVVFVSVLLAVVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMYPLRVAGVGE
APLLGRARPRRAVPGDCCRQFPVDYSWCRCEAISHMLGGIYRELGAPDVGHPMSEVFR
GCRRGTWSARRRAPGVLQVDIPNGGGGVCYWLARSGY

>accession|CAA05978.1|Allergen prohevein [Hevea brasiliensis]
EQCGRQAGGKLCPPNLLCCSQWGWCGSTDEYCSPDHNCQSNCKDSGEGVGGGSASNVLATY
HLYNSQDHGDLNAASAYCSTWDANKPYSWRSKYGWTAFCGPVGAHGQPSCGKCLSVTNT
GTGAKATVRIVDQCSNGGLDLVNVFRQLD TDGKGYERGH LTVNYQFVDCGDSFNPLFSV
MKSSVIN

>accession|Q25641.1|Allergen Allergen Cr-PI precursor (Allergen
Per a 3) [Periplaneta americana]
MKTALVFAAVVAFVAARFPDHKDYKQLADKQFLAKQRDVLRLFHVRVQHNI LN DQVEVGI
PMTSKQTSATTVPPSGEAVHGVLQEGHARPRGEPFSVNYEKHREQAIMLYD LLYFANDYD
TFYKTACWARDRVNEGFMYSFSIAV FHRDDMQGVMLPPP YEVYPYLFVDHDV IHMAQKY
WMKNAGSGEHHSHV I PVNFTLRTQDHLLAYFTSDVNLNAFN TYYRYYPSWYNTTLYGHN
IDRRGEQFYTYKQIYARYFLERLSNDLPDVPFYYSKPVKSAYNPNLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEKRVEDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMI EGNM
DSPNFYFYGSIYHMYHSMIGHI VDPYHKMGLAPSLEHPETVLRDPV FYQLWKRVDHLFQK
YKNRLLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDMSLDMAVYVNNVDQISNV DVQLAV
RLNHPFTYNI EVSSDKAQDVYVAVFLGPKYDYL GREYDLNDRRHYFVEMDRFPYHV GAG
KTVIERNSHDSNI IAPERDSYRTFYKQVQAYEGKSQYYVDKGHNYCGYPENLLIPKGKK
GGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDF
YTPNMYFKDVIIIFHKKYDEVG VQGH

>accession|CAA11266.1|Putative rAsp f 9 [Aspergillus fumigatus]
KRSFILRSADMYFKYTAAALAAVLPKCSAQTWSKCNPLEKTCPPNKGLAASTYTADFTSA
SALDQWEVNTAGKVPVGPQGAFTVAKQGDAPTIDTDFYFFFYFKAEVVMKAAPGTGVVSSI
VLESDDLDEVDWEVLGGDTTQVQTNVFGKGDTTTTYDRGTYVPVATPQETFHTYTTIDWTKD
AVTWSIDGAVVRTLTYNDAKGGTRFPQTPMRLRLGSWAGGDPSPNPKGTIEWAGGLTDYSA
GPYTMVYKSVRIENANPAESYTYSDNSGSWSQSIKFDGSVDISSSSSVTSSTTSTASSASS
TS

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

>accession|AAC34312.1|Allergen allergen [Periplaneta americana]
SIISTLNAMEPEYQDLLQNLDRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDLFLALIPTD
QILAIAMDYLANDAEVQELVAYLQSDDFHKIITTTIEGLPEFANFYNFLKEHGLDVADFLN
EIHSIIGLPPFPVPPSRRHARRGVINGLIDDVIAILPVDELKALFDEKLETSPDFKALYD
AIRSPEFQSIISTLNAMEPEYQDLLQNLDRDKGVDVDHFIELIRSLFGLP

>accession|CAA73720.1|Putative Profilin [Mercurialis annua]
MSWQTYVDDHLMCDIDGQGQHLAAASIVGHDGSIWAQSASFPQLKPEEITGIMKDFDEPG
HLAPTGLYIAGTKYMVIQGESGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTGQCNMV
VERLGDYLIIEQGM

>accession|CAA76556.1|Allergen Phl p6 allergen [Phleum pratense]
MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDINASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSE
ALHI IAGTPEVHAVKPGA

>accession|CAA76557.1|Allergen Phl p6 allergen [Phleum pratense]
MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDVNASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSE
ALRI IAGTPEVHAVKPGA

>accession|CAA76558.1|Allergen Phl p6 IgE binding fragment
[Phleum pratense]
TEEQKLIEDVNASFRAAMATTANVPPADKYKTLAAFTVSSKRNLADAVSKAPQLVPKLD
EVYNAAYNAADHAAPEDKYEAFVLHFSEALRI IAGTPEVHAVKPGA

>accession|CAA04959.1|Allergen rAsp f 4 [Aspergillus fumigatus]
GEVGDTVYATINGVLVSWINEWSGEAKTSDAPVSQATPVSNAVAAAAAASTPEPSSSHSD
SSSSSGVSADWTNTPAEGEYCTDGFGRTEPSGSGIFYKGNVGPWGSNIIIEVSPENAKK
YKHVAQFVGSDDTDPWTVVFNKIGPDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAW
GAAKGDELDPKQDFGGYSCTWGEFDFDSKINHGWSGWDVSAIQAENAHHEVQGMKICNHAG
ELCSIISHGLSKVIDAYTADLAGVDGIGKVVPGPTRLVVNLDYKE

>accession|CAA06305.1|Allergen Aspfl allergen [Aspergillus
fumigatus]
RLVYNQAKAESNSHHAPLSDGKTGSSYPHWFTNGYDGDGKLIKGRMPIKFGKADCDRPPK
HGKDGMGKDDHYLLEFPFDPGDHDKYKFDKSKPKEDPGPARVIYTYPNKVFCGIVAHGERN
QGDLR

>accession|CAA11755.1|Putative profilin [Glycine max]
MSWQAYVDDHLLCGIEGNHLTHAAIIGQDGSVWLQSTDFPQFKPEEITAIMNDFNEPGSL

APTGLYLGGTKYMVIQGEPGA VIRGKKGGVTVKKTGAALIIGIYDEPMPGQCNMVVE
RLGDYDLIDQGY

>accession|CAA11756.1|Putative profilin [Glycine max]
MSWQAYVDDHLLCDIEGNHLTHAAIIGQDGSVWAQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPGA VIRGKKGGVTVKKTGAALIIGIYDEPMPGQCNMVVE
RPGDYDLIDQGY

>accession|AAC38996.1|Allergen fast muscle tropomyosin [Panulirus
stimpsoni]
MKLEKDNAMDRADTLEQQNKEANIRA EKAEEEEVHNLQKRMQQLENDLDQVQESLLKANTQ
LEEKDKALSNAEGEVAALNRRIQ LLEEDLERSEERLNTATTKLAEASQA ADESERMRKVL
ENRSL SDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAEERAETGESKF
VELEEE LR VVGNNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARA EFAERSVQKLO
KEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|CAA11041.1|Allergen latex allergen [Hevea
brasiliensis]
MATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDL DGP DARIADYFDIIAGT
STGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LREL CNLLKDLTVKDTLTDV IIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGAAATNP TLLAL THIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIATEENLQRLVEIGTRLLEKQESRINLDTGRLES
IPGASTNEAAITKFAKLLSEERKLRQLK

>accession|BAA25899.1|Putative Bd 30K [Glycine max]
MGFLVLLL FSLGLSSSSSISTHR SILDLDTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNLN YIRDMNANRKSPHSHRLG LNKFADITPQEF SKKYLQAPKDV SQQIKM
ANKKMKKEQYSCDHPPASWDWRKKG VITQVKYQGGCGSGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESEGCYNGWHYQSF EWVLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPI SVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVYWI AKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

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

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

>accession|AAC16525.1|Allergen major allergen Phl p 5 [Phleum
pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQK LIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAF AEGLSAEPKGA AESSKAALTSKLDAA YKLAYKTAEGATPEAEYDAYVATL
SEALRIIAGTLEVHAVKPA AEVKVIPAGELQVIEKVDSALKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITATS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>accession|AAC16526.1|Allergen major allergen Phl p 5 [Phleum
pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQK LIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAF AEGLSAEPKGA AESSKAALTSKLDAA YKLAYKTAEGATPEAKYDAYVATL

SEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

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

ADLGYGGPATPAAPAEAPAGKATTEEQKLIIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPAAAATATATS AVGAATGATTAAGGYKV

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

ADLGYGGPATPAAPAEAPAGKATTEEQKLIIEKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAKPATEATATATAAVGAATGAATAATGGYKV

>accession|CAA75312.1|Allergen profilin [Hevea brasiliensis]
MSWQTYVDERLMCEIEGNHLTAAAIIGQDGSVWAQSSNFPQFKSEEITAIMSDFDEPGTL
APTGLHLGGTKYMVIIQGEAGAVIRGKKGGVTVRKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLLEQGM

>accession|CAB01591.1|Putative endochitinase [Persea americana]

MVYCTASLPLLLLLLVGLLAGEAFAEQCGRQAGGALCPGGLCCSQFGWCGSTSDYCGPTC
QSQC GGVTSPGGGVASLISQSVFNQMLKHRNDAACQAKGFYTYNAFIAAANSFNFGFASV
GDTATRKREIAAFLAQTSHETTGGWATAPDGPYAWGYCFLKEQGNPPDYCVPTAQWPCAP
GKKYYGRGPIQISYNINYGPAGRAIGYDLINNPDAVATDPVISFKTALWFWMTQPSPKPS
CHNVITGRWTPSAADRAAGRLPGYGVITNIINGGIECGKGFNDKVADRIGFYKRYCDLLG
VSYGSNLDCYNQRSFGVSTNPLAASS

>accession|AAC24001.1|Allergen isoflavone reductase related
protein [Pyrus communis]

MASKSQILFIGGTGYIGKFIVEASAKAGYPTYVVLVREASLSDPAKSKVIENFKALGVNFV
LGDLYDHESLVKAIKQVDVISTVGHGQLADQGKIIAAIKEAGNVKRFFPSEFGNDVDRS
HAVEPAKSAFETKAKIRRAVEAEGIPYTYVSSNFFAGYFLPTLNQPGASSAPRDKVVILG
DGNPKAIFNKEDDIGTYTIRAVDDPRTLNVLYIRPPANTISFNELVSLWEKKIGKTLER
IYVPEEQLLKNIQEAAVPLNVILSISHAVFVKGDHTNFEIEPSFGVEATALYPDVKYTTV
DEYLNQFV

>accession|CAA54818.1|Putative major allergen [Ligustrum vulgare]

EDVPQPPVSQFYIQGVYCDTCRARFITESEFIPGAGVRLQCKDGENGKVTFTTEVGYTK
AEGLYNMLIERDHKNEFCEITLISSSRKDCDEIPIEGWVKPSLKFVLTNTVNGTTRTINPL
GFLKKEVLPKCPQVFNKLGMYPPNM

>accession|CAA54819.1|Putative major allergen [Ligustrum vulgare]

EDVPQPPVSQFYIQGVYCDTCRARFITESEFIPGAGVRLQCKDGENGKITFTTEVGYTR
AEGLYSMLIERDHKNEFCEITLLSSSRKDCDEIPIEGWVKPSLKFMLNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

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

ITCGQVSSALAPCIPYVRGGAVPPACCNGIRNVNLLARTTPDRQAACNCLKQLSASVPG

VNPNNAALPGKCGVHIPYKISASTNCATVK

>accession|CAA11042.1|Allergen latex allergen [Hevea brasiliensis]
MATGSTTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDLDPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPIYQAKDIKDFYLENCPKIFPKESRDTYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIIPAFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAAANPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>accession|AAC25994.1|Allergen group V allergen Phl p 5.0103 precursor [Phleum pratense]
MAVHQYTVLFLAVALVAGPAGSYAADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKAT
TEEQKLIKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAEGLSGEPKGAEESS
SKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATVSEALRIIAGTLEVHAVKPAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAATAATATAAAGAAT
GAATAATGGYKV

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

>accession|AAC25997.1|Allergen group V allergen Phl p 5.0206 precursor [Phleum pratense]
MAVQKYTVLFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGAATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEDPAWPKIPAGELQIIDKIDAAFKVAAATAAT
APADDKFTVFEEAFNKAIKESTGGAYDITYKCIPSEAAVKQAYAATVAAAPQVKYAVFEA
ALTKAITAMSEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>accession|AAC25998.1|Allergen group V allergen Phl p 5.0207 precursor [Phleum pratense]
MAVQKYTVLFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVSYKAAVGAATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAAATAAT
APADTVFEAAFNKAIKESTGGAYDITYKCIPSEAAVKQAYAATVAAAPQVKYAVFEAAL
TKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|CAA76831.1|Allergen pollen allergen Aln g 4 [Alnus glutinosa]
MADDHPQDQAEHERIFKCFDANGDGKISASELGDALKTLGSVTPDEVKHMMAEIDTDGDG
FISFQEFNFARANRGLVKDVAKIF

>accession|CAA76841.1|Allergen albumin [Canis familiaris]
MDTYKSEIAHRYNDLGEHFRGLVLVAFSQYLQOCPFEDHVKLAKVTEFAKACAAEESG
ANCDKSLHTLFGDKLCTVASLRDKYGDMA DCCEKQEPDRNECF LAHKDDNPGFPPLVAPE
PDRLCAAFQDNEQLFLGKLYEIIARRHPYFYAPELLYYAQQYKGVFAECCQAADKAACLG
PKTEALREKVLSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLT

KVHKECCHGDLLECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDELP
GDLPSLAADFVEDKEVCKNYQEAKDAFLGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEK
CCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFEKLGEYGFQNALLVRYTKKAPQVS
TPTLVEVSRKLGKVGTKCCKKPESEMSCADDFLSVVLNRLCVLHEKTPVSEKTKCCSE
SLVNRPCFSGLEVDETYVPKEFNAETFTFHADLCTLPEAEKQVKKQTALVELLKHKPKA
TDEQLKTVMGDFGAFVEKCCAAENKEGCFSEEGPKLVAAAQAALV

>accession|CAA76847.1|Allergen bovine serum albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRGVFRDTHKSEIAHRFKDLGEEHFKGLVLIAFSQYLQQCPF
DEHVKLVLNELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCQEP
ERNECFLSHKDDSPDLPKLKPDPNTLCDEFKADEKKFWGKYLIEIARRHPYFYAPELLYY
ANKYNGVFQEQCAEDKGACLLPKIETMREKVLTSARQRLCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKE
CCDKPLLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLECCAKDDPHACYSTVFDKLLKHLVDEPQNLKQNCQDFEK
LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESEMPCTEDYLSLIL
NRLCVLHEKTPVSEKVTCCETSLVNRPCFSALTPDETYVPKAFDEKLFTFHADICTLP
DTEKQIKKQTALVELLKHKPKATEEQKTVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQATALA

>accession|AAD05375.1|Allergen calcium-binding pollen allergen
[Olea europaea]
MADDPQEVAEHERIFKRFDANGDGKISSSELGETLKTLSVTPPEIQRMMAEIDTDGDGF
ISFEEFTVFARANRGLVKDVAKIF

>accession|CAA08836.1|Allergen BDAI-1; Barley dimeric alpha-
amylase inhibitor [Hordeum vulgare subsp. vulgare]
MGAMWMSMLLVLLCMLMVTMTGARSDNSGPMWCDPEMGHKVSPLTRCRALVKLECV
GNRVPEDVLRDCCQEVANISNEWCRGDLGSMRLSVYAALGVGGGPEEVFPGCQKDVMLK
LVAGVPALCNVPIPNEAAGTRGVCYWSASTDT

>accession|CAA76887.1|Allergen p7 protein [Phleum pratense]
MADDMERIFKRFDNNGDGKISLSELTDALRTLSTSADEVQRMMAEIDTDGDGFIDFNEF
ISFCNANPGLMKDVAKVF

>accession|BAA32435.1|Putative MF1 [Malassezia furfur]
MPGDPTATAKNEIPDTLMGYIPWTPELDSGEVCGIPTTFKTRDEWKGKVVIVSIPGAY
TPICHQQHIPPLVKRVDELKAKGVDAVYVIASNDPVMMAWGNFNNAKDKVVFATDIDLA
FSKALGATIDLSAKHFGERTARYALIIDDNKIVDFASDEGDTGKLQNASIDTILTKV

>accession|BAA32436.1|Putative MF2 [Malassezia furfur]
EIGSTIPNATFAYVPYSPELEDHKVCGMPTSFQSHERWKGKVVIVAVPGAFTPTCTANH
VPPYVEKIQELKSKGVDEVVVISANDPFLSAWGITEHAKDNLTFADVNCEFSKHFNAT
LDLSSKGMGLRTARYALIANDLKVEYFGIDEGEPKQSSAATVLSKL

>accession|CAA75506.1|Putative profilin [Helianthus annuus]
MSWQAYVDEHLMCDIEGTGQHLTSAAILGLDGTVWAQSAKFPQFKPEEMKGIIEKFDEAG
TLAPTGMFIAGAKYMLVQGEPAVIRGKKGAGGICIKKTGQAMIMGIYDEPVAPGQCNMV
VERLGDYLLEQGM

>accession|AAC36740.1|Putative thaumatin-like protein precursor
Mdt11 [Malus domestica]
MMKSQVAPRPTLAILFFFSGAHAAKITFTNNCPNTVWPGTLTGDQKPQLSLTGFELASKA
SRSVDAPSPWGRFWRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIAA
NGGQDYDVSLLVDGFNLPMSPVAPQGGTGECKPSSCPANVNKVCAPLQVKAADGSVISCK

SACLAFGDSKYCCTPPNNTPETCPPTSEIFEKQCPQAYSAYDDKNSTFTCSGGPDYV
ITFCP

>accession|AAC61869.1|Putative tropomyosin [Crassostrea
virginica]
RNRKVLLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAEARLE
AAEAKVLELEEEELKVVGNNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRATEAER
TVSKLQKEVDRLEDELLAEKERYKAISDELDTFAELAGY

>accession|AAC63045.1|Allergen glycinin [Arachis hypogaea]
RQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNNQEFECAGVALSRLVLRNRRR
FYSNAPQEIFIQQGRGYFGLIFPGCPRHYYEHPHTQGRRSQSQRPPRRLQGEDQSQQQRDS
HQKVHRFDEGDLIAVPTGVAFWLYNDHDTDVAVSLTDTNNNDNQLDQFPRRFNLAGNTE
QEFRLYQQSRQSRRRSLPYSPPSPQSQRQEEREFSPRGQHSRRERAGQEEENEGGNIF
SGFTPEFLEQAFQVDDRQIVQNLRGETESEEEGAIVTVRGGLRILSPDRKRRADEEEEEYD
EDEYEDDEDRRRGRGSRGRNGIEETICTASAKKNIGRNRSPDIYNPQAGSLKTANDLN
LLILRWLGPSAEYGNLYRNALFVAHYNTNAHSIIYRLRGRAHVQVDSNGNRVYDEELQE
GHVLVVPQNFVAVAGKSQSENFYVAFKTDSPSIANLAGENSVIDNLPEEVVANSYGLQR
EQARQLKNNNPFKFFVPPSQSPRAVA

>accession|CAA83015.1|Putative metalloprotease (MEP) [Aspergillus
fumigatus]
MRGLLLAGALALPASVFAHPAHQSYGLNRRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPKQSYVEVATQHVKMIAPDATFRVVDHIVGDNVVAHVHFRQTANGLDIDNADFVNV
GKDGKVFVSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEK
ESYVFKGVSQTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSN
PSGGPSYLNRYRPSSSSLFKYPYSVSSSPSSYIDASIIQLFYTANIYHDLLYTLGFTE
KAGNFYNTNGQGGGLNDYVILNAQDGSNTNANFATPPDGQPGRMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALES GGMGEGWSDFMATAIRLKPDKRST
YTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIQTVWASMLYEVWLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFKRGLGAGAKYSSRNRVVGSTEVPSGVC

>accession|AAC82355.1|Allergen small rubber particle protein
[Hevea brasiliensis]
MAEEVEERLKYLDVRAAGVYAVDSFSTLYLYAKDISGPLKPGVDTIENVVKTVVTPVY
YIPLEAVKFVDKTVDVSVTSLDGVVPPVIKQVSAQTYVAQDAPRIVLDVASSVFNTGVQ
EGAKALYANLEPKAEQYAVITWRALNKLPLVPQVANVVVPTAVYFSEKYNDVVRGTTEQG
YRVSSYLPLLPTEKITKVFGEAS

>accession|CAA10140.1|Putative major group I allergen Hol 1 1
[Holcus lanatus]
MASSSLVLLVVALFAVFLGTAHGIKVPVPGPNITATYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPESCSGEPIVVHITDDNE
EPIAAYHLDLSGKAFGAMAKKGEQKLSRAGELELKFRRVKCEYPKGTVTFHVEKGSNP
NYLALLVKYVDGDGDVVAVDIKEKGDKWIELKESWGAVWRVDTDPDKLTGPFTVRYTTEG
GTKVEAEDVIPEGWKADTAYESK

>accession|CAA81613.1|Allergen pollen allergen Phl pI [Phleum
pratense]
MASSSVLLVVALFAVFLGSAHGIPKVPVPGPNITATYGDKWLDKSTWYGKPTAAGPKDN
GGACGYKDVKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAAYHFDLGIAFGSMAKKGDEQKLSRAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFVAGDGDVVAVDIKEKGDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEG

GTKGEAKDVIPEGWKADTAYESK

>accession|P81496.1|Putative Allergen C-C [Triticum aestivum]
SFREQVPGREITYECLNACAEYAVRQ

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

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

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

>accession|AAC82350.1|Putative group 2 allergen Eur m 2 0102
[Euroglyphus maynei]
VAVAADQVDVVKDCANHEIKKVMVPGCKGSEPCVIHRGTAFQLEAVFDANQNSNAAKIEI
KATIDGVEIDVPGIDNNLCHFMCPLVKGQEYDIKYTWNVPRIAPKSENVVVTVKLLGDN
VVLACAIATHAKIRD

>accession|AAC82351.1|Putative group 1 allergen Eur m 1 0101
precursor [Euroglyphus maynei]
MKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKTYATPEKEEVARKNFLES�KYVESN
KGAINHLSDSLDEFKNQFLMNANAFEQLKTQFDLNAETYACINSVSLPSELDRSLRT
VTPIRMQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDTIPRGIE
YIQQNGVQEHYYPYVAREQSCHRPNAQRYGLKNYCQISPPDSNKIRQALTQHTAVAVI
IGIKDLNAFRHYDGRTIMQHDNGYQPNYHAVNIVGYGNTQGVQVDYWIVRNSWDTTWGDNGY
GYFAANINLMMIEQYPYVVML

>accession|AAC82352.1|Putative group 1 allergen Eur m 1 0102
[Euroglyphus maynei]
KHLSTIMKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKSYATPEKEEVARKNFLES
KYVESNKGAINHLSDSLDEFKNQFLMNANAFEQLKTQFDLNAETYACINSVSLPSELDR
LRLRTVTPIRNQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDT
IPRGIEYIQQNGVQEHYYPYVAREQSCHRPNAQRYGLKNYCQISPPDSNKIRQALTQHT
TAVAVIIGIKDLNAFRHYDGRTIMQHDNGYQPNYHAVNIVGYGNTQGVQVDYWIVRNSWDTT
WGDNGYGYFAANINLMMIEQYPYVVIL

>accession|CAA07318.1|Allergen pollen allergen Betv1, isoform at8
[Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVTTPDGGCVLKISNK
YHTKGNHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07319.1|Allergen pollen allergen Betv1, isoform
at10 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVEGYLLAHS DAYN

>accession|CAA07320.1|Allergen pollen allergen Betv1, isoform
at14 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNN

>accession|CAA07323.1|Allergen pollen allergen Betv1, isoform
at37 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07324.1|Allergen pollen allergen Betv1, isoform
at42 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKLVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGETLLRAVESYLLAHS DAYN

>accession|CAA07325.1|Allergen pollen allergen Betv1, isoform
at45 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07326.1|Allergen pollen allergen Betv1, isoform
at50 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07327.1|Allergen pollen allergen Betv1, isoform
at59 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07328.1|Allergen pollen allergen Betv1, isoform
at87 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLFVKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNN

>accession|CAA07329.1|Allergen pollen allergen Betv1, isoform at5
[Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKLVATPDGGSILEISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA07330.1|Allergen pollen allergen Betv1, isoform at7
[Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILEGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA10345.1|Putative pollen allergen (group II)
[Dactylis glomerata]
MSMASSSSSSGLLAMAVLAALFAGAWCVPKVFTFTVEKGSNEKHLAVLVKYEGDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEP LQGPFNFRFLTEKGMKNVFDVVPKEKYTIGATYAP
EE

>accession|CAA65313.1|Putative alpha purothionin [Triticum
aestivum]
MGSKGFKGVIVCLLILGLVLEQLQVEGKSCCRSTLGRNCYNLCRARGAQKLCAGVCRCKI
SSGLSCP KGF PKLALESNSDEPDTIEYCNLGRSSVCDYMVNAAAADDEEMKLYVENCADA
CVSFCNGDAGLPSLDAY

>accession|AAC97369.1|Putative venom allergen Sol i 4.01
precursor [Solenopsis invicta]
MKTFVLV SCLLVFTQIIYALDIKEISIMNRILEKCI RTV PKRENDP INPLRNVNVWYCAF
TKRGIFTPKGVNTKQYINYCEKTAISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKGLLELTVYGKKK

>accession|AAC97370.1|Putative venom allergen Sol i 4.02
precursor [Solenopsis invicta]
MKTFVLV SCLLVFTQIIYALDIKEISIMNRILEKCI RTV PKRENDP INPLKNVNVLYCAF
TKRGIFTPKGVNTKQYINYCEKTIISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKGLLELTVYGKKK

>accession|CAA10520.1|Putative group I pollen allergen [Poa
pratensis]
MASSSSVLLVVALFAVFLGTAHGIKAVPPGPNITATYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVDKAPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPESCSGEPVLVHITDDNE
EPIAAAHFDLSGKAFGAMAKKGEEQKLR SAGELELKFRRVKCEYPEGTVKVTFHVEKGSNP
NYLALLVKYVTGDGDVVAVDIKEKGKDKWIELKESWGSIW RVDT PDKLTGPFTVRYTTEG
GTKGEAEDVIPEGWKADTAYASK

>accession|AAD09630.1|Putative napin-type 2S albumin 1 precursor
[Glycine max]
MTKL TILLIALLFIAHTCCASKWQQHQQESCREQLKGINLNPCEHIMEKIQAGRRGEDGS
DEDHILIRTMPGRIN YIRKKEGKEEEEEGHMQKCCSEMSELKSPICQCKALQKIMDNQSE
QLEGKEKKQMERELMNLAIRCRLGPMIGCDLSSDD

>accession|CAA09883.1|Putative allergen [Malassezia sympodialis]
MSATTGSQAPNTTFTYIPWAPELDSGKVCVGPQTFKAHDRWKGGKVVVVAIPGAFTPACH
QNHIPGFVEKINELKAKGVDEVVVI AVNDAFVMSGWGVTVGGKDQIVYACDNDLAFSKAL
GGTLDLTSGGMGVRTARYAVVLDLKIT YFGMDEGNMGAPEKSSVDAVLAQL

>accession|CAA09884.1|Putative allergen [Malassezia sympodialis]
MSNVFFDITKNGAPLGTIKFKLFDDVVPKTAANFRALCTGEKGFYAGSHFHRVIPDFML
QGGDFTAGNGTGGKSIYAKFADENFQLKHNPGLLSMANAGPNTNGSQFFITTVVTSWL
DGKHVVFGVIDGMNVVKAIEAEGSGSGKPRSRIEIAKCGVC

>accession|CAA09885.1|Putative allergen [Malassezia sympodialis]
AVSASPTPSKHNLYCYAQGKDLFEFHINDTVTKDVCKSLNSGKYHNMNNEKYCSVADYDV
KWFKERCSHPTDVKTWKWIAGTDLK IEMDPKEPYELYCFNYTTFGNLPDAGAKELDDD
ATKKAC SALKSGKYQSDPKKSCRMDKDDIDQFKEQCSQYQPSDRPPYGDWSAGTSLNVV
LNLKNA

>accession|AAD03608.1|Putative pollen major allergen 1-1
[Juniperus ashei]
MASPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSTDDNPVNPPTPGTLRYGATREKALWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHSLHIHCNTSVLGDVLVSESIGVEPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSGTITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESPSACANWVWRSTRDAFINGAYFVSSGKTEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

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

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

>accession|AAD13106.1|Putative beta-xylosidase [Aspergillus
niger]
MAHMSRPVAATAAALLALALPQALAQANTSYVDYNVEANPDLYPLCIETIPLSFPDCQN
GPLRSHLICDESATPYDRAASLISLFTLDELIAANTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGSYNWATSFPQPILTAAALNRTLHIHQIASIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAVYAYEYITGIQGPDPDSNLKLAATAKHYAGYDIENW
HNHSRLGNDMNIITQQLSEYYTPQFHVAARDAKVHVSVMCAYNAVDGVPACADSYFLQTL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAAEAILAGTDIDCGTTYQWHLNESI
TAGDLSRDDIEKGVIRLYTTLVQAGYFDSNTTKANNPYRDLTWSDVLETDAWNISYQAAT
QGIVLLKNSNNVLPLETEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAARSADVIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASSAGSKPLIVLQMGQGQVDSSSLKNNTNVTALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEFPATDMNLRPEGDNPGQTYKWYTGEAVYEFHGHLFYTTFA
ESSNTTTTKEVKLNIQDILSQTHEELASITQLPVLNFTANIKNTGKLESDYTAMVFANTS
DAGPAPYPVKWLVGWDRLGDVKVGETRELVRPVEVGSFARVNEDGDWVLFPGTFELALNL
ERKVRVKVLEGEVEEVLKWPGE

>accession|AAD13531.1|Allergen major allergen Bla g 1.02
[Blattella germanica]
NAIEFLNNIHDLGIPHIPVTARKHHRGVGITGLIDDI IAILPVDDLYALFQEKLETSP
EFKALYDAIRSPEFQSIVGTLEAMPEYQNLIQKLKDKGVDVDHIEELIHQIFNIVRDTRG
LPEDLQDFLALIPDQVLAIAADYLANDAEVKA AVEYLYKSDEFETIVVTVDLPEFKNFL
NFLQTNGLNAIEFLNNIHDLGIPHIPVTGRKHLRRGVGITGLIDDI IAILPVDDLYALF
QEKLETSPFEKALYDAIRSPEFQSIVETLKAMPEYQSLIQKLKDKGVDVDHIEELIHQIF
NIVRDTRGLPEDLQDFLALIPIDQILAIAADYLANDAEVQA AVEYLYKSDEFETIVVTVDS
LPEFKNFLNFLQTNGLNAIEFINNIHDLGIPHIPATGRKHVRRGVINGLIDDVIAILP
VDELYALFQEKLESSPEFKALYDAIRSPEFQSIVQTLKAMPEYQDLIQRLKDKGVDVDHF
IELIKKLFGLSH

>accession|AAD13533.1|Allergen major allergen Per a 1.0101
[Periplaneta americana]
EFQSIISTLNAMPEYQELLQNLKDKGVDVDHYIELIRALFGLTRAARNLQDDLNDFLALI
PTDQILAIAMDYLANDAEVQELVAYLQSDDFHKIITTEIEGLPEFANFYNFLKEHGLDVAD

FLNEIHSIIIGLPPFVPPSRRHARRGVINGLIIDVIAILPVDELKALFQEKLETSPDFKA
LYDAIRSPEFQSIISTLNAMPEYQDLLQNLNRDKGVDVDHFIELIRSLFGLP

>accession|BAA74953.1|Putative glycinin [Glycine max]
MGKPF T L S L S L C L L L L S S A C F A I S S S K L N E C Q L N N L N A L E P D H R V E S E G G L I Q T W N S Q H
P E L K C A G V T V S K L T L N R N G L H L P S Y S P Y P R M I I I A Q G K G A L G V A I P G C P E T F E E P Q E Q S N
R R G S R S Q K Q Q L Q D S H Q K I R H F N E G D V L V I P P G V P Y W T Y N T G D E P V V A I S L L D T S N F N N Q L
D Q T P R V F Y L A G N P D I E Y P E T M Q Q Q Q Q K S H G G R K Q G Q H Q Q E E E E E G G S V L S G F S K H F L A Q
S F N T N E D I A E K L Q S P D D E R K Q I V T V E G G L S V I S P K W Q E Q Q D E D E D E D E D E D E Q I P S H P P
R R P S H G K R E Q D E D E D E D E D E D K P R P S R P S Q G K R E Q D Q D E D E D E D E D E D Q P R K S R E W R S K K T Q
P R R P R Q E E P R E R G C E T R N G V E E N I C T L K L H E N I A R P S R A D F Y N P K A G R I S T L N S L T L P A L
R Q F Q L S A Q Y V V L Y K N G I Y S P H W N L N A N S V I Y V T R G Q G K V R V V N C Q G N A V F D G E L R R G Q L L
V V P Q N F V V A E Q A G E Q G F E Y I V F K T H H N A V T S Y L K D V F R A I P S E V L A H S Y N L R Q S Q V S E L K
Y E G N W G P L V N P E S Q Q G S P R V K V A

>accession|CAA04823.1|Allergen pollen allergen, Betv1 [Betula
pendula]
G V F N Y E I E T T S V I P A A R L F K A F I L D G D N L V P K V A P Q A I S S V E N I E G N G G P G T I K K I N F P E
G F P F K Y V K D R V D E V D H T N F K Y N Y S V I E G G P V G D T L E K I S N E I K I V A T P D G G C V L K I S H K Y
H T K G N H E V K A E Q V K A S K E M G E T L L R A V E S Y L L A H S D A Y N

>accession|CAA04826.1|Allergen pollen allergen, Betv1 [Betula
pendula]
G V F N Y E S E T T S V I P A A R L F K A F I L D G D N L I P K V A P Q A I S S V E N I E G N G G P G T I K K I T F P E
G S P F K Y V K E R V D E V D H A N F K Y S Y S M I E G G A L G D T L E K I C N E I K L V A T P D G G S I L K I S N K Y
H T K G D H E M K A E H M K A I K E K G E T L L K A V E S Y L L A H S D A Y N

>accession|CAA04827.1|Allergen pollen allergen, Betv1 [Betula
pendula]
G V F N Y E T E A T S V I P A A R L F K A F I L D G D N L F P K V A P Q A I S S V E N I E G N G G P G T I K K I S F P E
G I P F K Y V K D R V D E V D H A N F K Y S Y S L I E G G P V G D T L E K I S N E I K I V A T P D G G S I L K I S N K Y
H T K G D H E V K A E Q V K A S K E M G E T L L R A V E S Y L L A H S D A Y N

>accession|CAA04828.1|Allergen pollen allergen, Betv1 [Betula
pendula]
G V F N Y E S E T T S V I P A A R L F K A F I L D G D N L I P K V A P Q A I S S V E N I E G N G G P G T I K K I T F P E
G S P F K Y V K E R V D E V D H A N F K Y S Y S M I E G G A L G D T L E K I C N E I K L V A T P D G G S I L K I S N K Y
H T K G D H E M K A E H M K A I K E K G E T L L R A V E S Y L L A H S D A Y N

>accession|CAA04829.1|Allergen pollen allergen, Betv1 [Betula
pendula]
G V F N Y E I G A T S V I P A A R L F K A F I L V G D N L F P K V A P Q A I S S V E N I E G N G G P G T I K K I S F P E
G F P F K Y V K D R V D E V D H T N F K Y S Y S V I E G G P V G D T L E K I S N E I K I V A T P N G G S I L K I N N K Y
H T K G D H E V K A E Q I K A S K E M G E T L L R A V E S Y L L A H S D A Y N

>accession|AAD19606.1|Allergen tropomyosin [Periplaneta
americana]
M D A I K K M Q A M K L E K D N A M D R A L L C E Q Q A R D A N L R A E K A E E E A R S L Q K K I Q Q I E N D L D Q T
M E Q L M Q V N A K L D E K D K A L Q N A E S E V A A L N R R I Q L L E E D L E R S E E R L A T A T A K L A E A S Q A A
D E S E R A R K I L E S K G L A D E E R M D A L E N Q L K E A R F M A E E A D K K Y D E V A R K L A M V E A D L E R A E
E R A E S G E S K I V E L E E E L R V V G N N L K S L E V S E E K A N L R E E E Y K Q Q I K T L T T R L K E A E A R A E
F A E R S V Q L Q K E V D R L E D E L V H E K E K Y F I C D D L D M T F T E L I G N

>accession|AAD20386.1|Allergen pollen allergen Lol p VA
precursor; major allergen [Lolium perenne]

MAVQKYTVLFLAVALVAGPAASYAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKA AVAAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTAYDVAY
KAAEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPAATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFI PSLEAAVKQAYAATVAA
APEVKYAVFEAALTKAITAMTQAQKAGKPAAAAATGAATVATGAATAAAGAATAAAGGYK
A

>accession|CAB38044.1|Putative tropomyosin [Helix aspersa]
MDAIKKKMLAMKMEKENALDRAEQVEQKLRDCECNKNKVEEDLNNLQKKFAILENDFDSI
NEQLLDANTKLEASEKKNAEIESETAGLQRRIQLLLEEDLERSEERLQSATEKLEEASKAA
DESERGRKVLERSLADDERLDGLEAQLKEAKYIAEDAERKFDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAS
EAERTVSKLQKEVDRLEDELLAEKERYKATSDEL DSTFAELAGY

>accession|CAB38086.1|Allergen tropomyosin [Periplaneta
americana]
MDAIKKKMAMKLEKDNAMDCALLCEQQARDANLRAEKAEFEARSLOKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLLEEDLERSEERLATATAKLAEASQAV
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNMKSLEVSEEKANLREEEYKQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFCDDLDMTFTELAGY

>accession|CAB39376.1|Putative Cop c1 allergen [Coprinus comatus]
RFLPSSSHLNPQHLPWLHPAPVLLLPVLPQLKPVAPLPLLLPLDTTTTLHMPPLLLQLQL
PPLLSQGNPACSPKWLQLLVP

>accession|AAD13530.2|Allergen major allergen Bla g 1.0101
[Blattella germanica]
NLLEKLEKRGVDVDKIIELIRALFGLTLNAKASRNLODDLQDFLALIPVDQIIAIAIDYL
ANDA EVQAAVAYLQ SDEFETIVVALDALPELQNFNLFLEANGLNAIDFLNGIHDLLGIPH
IPVSGRKYHIRRGV GITGLIDDVLA I LPIEDLKALFNEKLETSPDFLALYNAIRSPEFQS
IVQTLNAMPEYQNLQKLEKRGVDVDKIIELIRALFGLTLNGKASRNLODDLQDFLALIP
VDQIIAIAIDYLANDAEVQAAVAYLQ SDEFETIVVTLDALPELQNFNLFLEANGLNAIDF
LNGIHDLLGIPHIPVSGRKYHIRRGV GITGLIDDVLA I LPLDDLKALFNEKLETSPDFLA
LYNAIKSPEFQSIVQTLNAMPEYQNLLEKLEKRGVDVDKIIELIRALFGLTH

>accession|AAD25926.1|Allergen Pen c 1; alkaline serine protease
[Penicillium citrinum]
MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFNTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDESTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSYTYDSTAGEGVVFGVDTGIDISHSDFGGRKAWGTNVVDN
DNTDGNHGHGHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNMSLGGEFSAVNDAANVVKSGIFLSVAAGNEAENASNSSPASAAEVCTIA
ASTSTDGSASFNTFGSVVDLYAPGQSITAAYPGGSKTSLSGTSMAPHVAGVAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>accession|AAD25927.1|Putative major allergenic protein Mal f4
[Malassezia furfur]
MFARAALRNSVRAPASARYFSQTAAANRQVAVLGASGGIGQPLSLLMKNPKVTELRLYD
IRLAPGVAADLSHINTPAVTSGYAQDDLEGAVDGA EIVLIPAGMPRKPGMTRDDL FNSNA
SIVRDLAKVVAKVAPKAYIGVISNPVNSTVPIVAEVFKKAGVYDPKRLFGVTTLDTTRAA
TFLSGIAGSDPQTTNVPVIGGHSVTVIPLISQAAQGDQVQAGEQYDKLVHRIQFGGDEV
VKAKDGAGSATLSMAYAAAVFTEGLLKGLDGEAVTQCTFVESPLFKDQVDF FASPVEFGP
EGVKNIPALPKLTAEQKLLDACLPDLAKNIKKGVAAWAENP

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

MKGFLGLALLPLLLTAASPVSVESIHNAAPIISSMNSQEIPDSYIVVFKKHVDTSAAAAH
HSWVQDIHSVAVNGRMELKKRGLFGFDTAFLGVKHSFHVAGSLMGYAGHFHEDVIEQVRR
HPDVDYIEKDSEVHHFDSVSEKNAPWGLARISHRDSLSFGTFNKYLYAEDGGEGVDAYV
IDTGTNTDHDVDFEGRASWGKTIPQGDDEDVDGNHGHTHCSGTIAGKKYGVAKKANVYAVKV
LRSNGSGTMSDVVKGVWAAEAHIKSKAAKDGGKAKGFKGKSVANMSLGGGSSRTLDLAVN
AAVDAGMHFAVAAGNDNADACNYSAAAEEKAVTVGASTLADERAYFSNYGKCTDIFAPGL
NILSTWIGSKYAVNTISGTSMASPHIAGLLAYYVSLQPSDDSAFAVEKITPKKLKEALIT
VATSGALTDIPSDTPNLLAWNGGSSNYTDIVAQQGY

>accession|AAD26546.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEFTSEIPPSRLFKAFLVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLGHPDAYN

>accession|AAD26547.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEYFTSEIPPPRLFKAFLVLDADNLIPKIAPQAIKHAIEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESHLKGHPDAYN

>accession|AAD26548.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEYFTSEIPPPRLFKAFLVLDADNLIPKIAPQAIKHAIEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLMASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLGHPDAYN

>accession|AAD26552.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEYFTSEIPPPRLFKAFLVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLDHPDAYN

>accession|AAD26553.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVCTFENEFTSEIPPSRLFKAFLVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLDHPDAYN

>accession|AAD26554.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEFTSEIPPSRLFKAFLVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTDTIENISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLDHPDAYN

>accession|AAD26555.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEYFTSEIPPSRLFKAFLVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKAKAHGLFKLIESYLGHPDAYN

>accession|AAD26558.1|Allergen major allergen mal d 1 [Malus x
domestica]

MGVYTFENEYTSSEIPPPRLFKAFLVLDADNLIPKIAAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVMAGKEKAHGLFKLIESYLGHPDAYN

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

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

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

>accession|AAD29409.1|Allergen profilin [Apium graveolens]
MSWQAYVDDHLMCEVEGNPGQTLTAAAIIGHDGSVWAQSSTFPQIKPEEIIAGIMKDFDEP
GHLAPTGLYLGGAKYMQVIEGEPNAVIRGKKGSGGVTIKKTGQALVFGVYDEPVTGQCNV
IVERLGDYLIDQGL

>accession|AAD29410.1|Allergen profilin [Pyrus communis]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMQVIEGEGAVIRGKKGSGGVTVKKTSQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>accession|AAD29411.1|Allergen profilin [Prunus avium]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAPFKPEEIAAILKDLDPGTL
APTGLFLGGTKYMQVIEGEGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>accession|AAD29412.1|Allergen profilin [Malus x domestica]
MSWQAYVDDRLMCDIDGHHLTAAAILGHGDSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMQVIEGEGAVIRGKKGSGGVTVKKTGQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>accession|AAD29413.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIGHNGSVWAQSATFPQKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMQVIEGEPGVVIRGKKGPGGVTVKKSTMALLIGIYDEPMTGQCNMVVE
RLGDYLIEQGL

>accession|AAD29414.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMQVIEGEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIVVE
RLGDYLIEQGL

>accession|AAD29671.1|Allergen major allergen Mal d 1 [Malus x
domestica]
MGVYTFENEFTSEIPPSRLFKAFLVLDADNLIPKIAAPQAIKQAEILEGNGGPGTIKKITFG

EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHDPDAYN

>accession|CAB42886.1|Allergen polygalacturonase [Phleum
pratense]

GKKEEKKEEKESGDAASGADGTYDITKLGAKPDGKTDCTKEVEEAWASACGGTGKNTIV
IPKGDFLTGPLNFTGPCKGDSVTIKLDGNLLSSNDLAKYKANWIEIMRIKLTITGKGTL
DGQGKAVWGKNNSCAKNYNCKILPNTLVLDLDFCDDALIEGITLLNAKFFHMNIYECKGVTVK
DVTITAPGDSNPNTDGIHIGDSSKVTITDITIGTGDDCISIGPGSTGLNITGVTCGPGHGI
SVGSLGRYKDEKDVTDITVKNVCLKKSTNGLRIKSYEDAKSPLTASKLTYENVKMEDVGY
PIIIDQKYCPNKICTSKGDSARVTVKDVTFRNITGTSSTPEAVSLLCSDKQPCNGVTMND
VKIEYSGTNNKTMAVCTNAKVTAAGVSEANTCAA

>accession|CAB42887.1|Allergen allergen 5; antigen 5 [Vespula
vulgaris]

NNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWNEDELAYIAQVWANQCEYGHDTCRDVAKYQVGQNVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGNNFLKTGHYTMVWANTKEVGCOSIKYIQEKW
HKHYLVCNYGPSGNFKNEELYQTK

>accession|CAB44442.1|Allergen PPIase [Aspergillus fumigatus]
FHQTPSAMSQVFFDVEYAPVGTAEKTKVGRIVFNLFDKDVPKTAKNFRELCKRPAGEGYRE
STFHR IIPNFMIQGGDFTRGNGTGGRS IYGDKFADENFSRKHDKKGILSMANAGPNTNGS
QFFITTAVTSWLDGKHVVFGGEVADEKSYSVVKEIEALGSSSSGSVRSNTRPKIVNCGEL

>accession|AAD38942.1|Putative alpha-amylase [Dermatophagoides
pteronysinus]

KYHNPHFIGNRSVITHLMEWKYDDIGDECERFLGPYGYGGVQVSPVNEHAILDRRPWYER
YQPVSYDIRTRSGDEQQFRMVKRCNKAGVRIYVDIVLNHMTGAQSGKGTNGHHYDGNTL
QYPGVVFGPNDFHGHESCPTQDLEIHDYTNPKERNCRLSGLRDLKQQSEYVRQKQVDFL
NHLIDIGVAGFRSDASTHQWPDDLRSIYRSLHNLNKEFFPENSQPFYHETIYYGGNGIN
SNEYTSLGRIIEFRFYKEITNVFRGNNPLHLWLNFGTEWGLVPSGDALVMIDSHDLRVGH
TGKLGFNINCFEGRLLKAATAFMLAWNYGVPRVMSSYFWNQI IKDGKDVNDWVGPSPDN
GNILSVHPNPDMTCNHEWICEHRWREIYNMVKFRMIAGQEPVHNWWDNGDYQIAFSRGNR
AFIAINLQKNQNLQQLHTGLPAGTYCDIISGNLIDNKCTGKSIHVDKNGQADVYVGH
EFDADFVAYHIGARIVS

>accession|AAD42074.1|Putative peroxisomal membrane protein
[Penicillium citrinum]

MSLKAGDSFPEGVTFSYIPWAEDASEITSCGIPINYNASKEFANKKVVLFPALPGAFTPVC
SANHVPEYIQKLPELRAKGVDQVAVLAYNDAYVMSAWGKANGVTGDDILFLSDPEAKFSK
SIGWADEEGRTYRYVLVIDNGKIIYAAKEAAKNSLELSRADHVLKQL

>accession|AAD42942.1|Putative 15 kDa oleosin [Sesamum indicum]
MAEHYGOQQQTRAPHLQLQPRARVKAATAVTTAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLSWIYRYLTGKHPPGADQLES AKTKL
ASKAREMKDRAEQFSQQPVAGSQTS

>accession|AAD42943.1|Putative 2S albumin precursor [Sesamum
indicum]

MARFTIVLAVLFAAALVSASAHKTVVTTSSVAEEGEEENQRGCEWESRQCQMRHCMQWMRS
MRGQYEEFSLRSAEANQGFQFEHFRECCNELRDVKSHCRCEALRCMMRQMQQEYGMQEMQ
QMQQMMQYLPRMCGMSYPTECMRPIFA

>accession|AAD42944.1|Allergen 11S globulin precursor [Sesamum

indicum]

MVAFKFLALLSLLVSAIAAQTRPRLTQGQQCRFQRISGAQPSLRIQSEGGTTELWDE
RQEQFQCAGIVAMRSTIRPNGLSLPNYHPSRLVYIERGQGLISIMVPGCAETYQVHRSQ
RTMERTEASEQQDRGSVRDLHQKVHRLRQGDIVAIPSGAAHWCYNDGSEDLVAVSINDVN
HLSNQLDQKFRAFYLAGGVPRSGEQEQARQTFHNI FRAFDAELLSEAFNVPQETIRRMQ
SEEEERGLIVMARERMTFVRPDEEEEGEQEHRGRQLDNGLLEETFCMTKFRTNVESRREADI
FSRQAGR VHVVDRNKLPILKYMDLSAEKGNLYSNALVSPDWSMTGHTIVYVTRGDAQVQV
VDHNGQALMNDRVNQGEMFVVPQYYTSTARAGNNGFEWVAFKTTGSPMRSPLAGYTSVIR
AMPLQVITNSYQISPNQAQALKMNRGSQSFLLSPGRRS

>accession|AAC15474.2|Putative pollen allergen Jun o 4 [Juniperus
oxycedrus]

MDEVPSDGSKSACSGEVVMEQSVHELEEVFKKFDANGDGKISGSELADILRSLGSDVGE
AEVKAMMEEADADGDGYVSLQEFVDLNNKGASVKDLKNAFKVFDRCNGSISAAELCHTL
ESVGEPCITIEESKNI IHNVDKNGDGLISVEEFQTMMTSEMTDKSK

>accession|AAD46493.1|Allergen L3NieAg.01 [Strongyloides
stercoralis]

NSARDENGLIYTYNGNDYDTKEAMEDAIQRDYPDKIFTFGDNNGKKRKIDISKWKGN
NTFSNKIFDEIWEGYNYDNDKAKNFKVMKTKLFNEQNKYRIAHGAKKLIKSKDLEKKAQA
YAEVIARLGRLEHDPKNRIEGTGENLAYGTTFIGHLAVKGWYDEIALYNFKKPGFSPATG
HFTQLVWKGTTTHAGFGVVEKGRVYVXKYSPPGNYPRQFXANVLQRKQ

>accession|CAB51914.1|Allergen profilin Hev b 8 [Hevea
brasiliensis]

MSWQAYVDDHLMCEIEGNHLSAAAIIGQDGSVWAQSANFPQFKSEEITGIMSDFHPEGTL
APTGLYIGGTKYMIQGEPAVIRGKKGGVTVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGY

>accession|AAD47382.1|Allergen glycinin [Arachis hypogaea]

MAKLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR
RYQSQRPPRRLQEEEDQSQQQDQSHQKVRHFNEGDLIAVPTGVAFWLYNDHDTDVAVSLT
DTNNNDNQLDQFPRRFNLAGNHEQEFRLRYQQQSRQSRRRSLPYSPPHSRPRREERFR
PRGQHSRRERAGQEEDEEGNIFSGFTPEFLEQAFQVDDRQIVQNLWGENESEEEGAIVT
VRGGLRILSPDGTRGADEEEYDEDQYEHQDGRGRGRGSRGGNGIETICTACVKNKI
GGNRSPHIYDPQRWFTQNCHDLNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVDSNGNRVYDEELQEGHVLVVPQNFVAVAGKSQSENFEYVAFKTDSRPSIANF
AGENSFIDNLPPEVVANSYGLPREQARQLKNNNPFKFFVPPFQQSPRAVA

>accession|AAD48405.1|Allergen major allergen Cor a 1.0401
[Corylus avellana]

MGVFCYEDEATSVIPPARLFKSFVLDADNLI PKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVVEIDHANFKYCYSIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEIKAGKEKAAGLFAVEAYLLAHPDAYC

>accession|CAB52710.1|Putative serpin [Triticum aestivum]

MATTLATDVRLSIAHQTRFGFRLASTISSNPESTANNVAFSPVSLHVALSLITAGAGGAT
RDQLVATLGEGERLHALAEQVVQFVLADASYADSPRVTFANGVFVDASLPLKPSFQEL
AVCKYKAEAQSVDFQTKAAEVTAQVNSWVEKVTGGLIKDILPAGSISNTTRLVLGNALYF
KGAWTDQFDSRVTKSDYFYLLDGSSIQT PPFMYSSEEQYISSSDGLKVLKLPYKQGGDKRQ
FSMYILLPEAPSGIWSLAEKLSAEPELLERHIPRQKVALRQFKLPKFKISFGIEASDLLK
HLGLQLPFSDEADLSEMVDSPMPQGLRISSVFHKTFFVEVNETGTEAAAATI AKAVLLSAS
PPSDMDFIADHPFLFLIREDTSGVVLFIGHVNVNPLRSL

>accession|CAB53458.1|Putative MnSOD [Hevea brasiliensis]
QTFSLPDLPYDYGALPAISGEIMQLHHQKHQTYITNYNKALEQLNDAIEKGDAAVVK
LQSAIKFNGGGHVNSIFWKNLAPVREGGGELPHGSLGWADADFGSLEKLIQLMNAEGV
ALQSGVWVWLALDKELKLVVETTANQDPLVTKGPTLVPLLGIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>accession|CAA55067.2|Putative minor allergen, ribosomal protein
P2 [Davidiella tassiana]
MKYLAFLLLGLAGNSSPSAEDIKTVLSSVGIDADEERLSSLLKELEGKDINELISSGSE
KLASVPSGGAGAASAGGAAAAGGAAEAPEAERAEEEEKEESDDDMGFGLFD

>accession|AAD52012.1|Allergen Tri r 4 allergen [Trichophyton
rubrum]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLNLKNGDINVLTTDSVSEITWLGDKTKVVYINGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAESGDKINFVGYGQSTTKGDLYNEAAAKEAVSSARIYDSLFRHWDT
YVGTQFNAVFSGLTKSGDKYSFDGKLNVLQPVKYAESPYPPFGSGDYDLSSDGKTV
FMSKAPLPAKANTTSYIFLVPDHSRVAEPINKRNGPRTPOGIEGASSSPVFSPOGKRI
AYLQMAAKNYESDRRVIHIAEVGTNKPVQRIASNWDRSPEAVKWSGRTLYVTAEDHAT
GKLFITLPAARDNHKPAVVKHDGVSFSFYFIGSSKSVLISGNSLWSNALYQVATPDRPNR
KLFYANEHDPKGLGPNIDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDNWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
HDHIKYIDTDNGIAAGASFGGFMVNWIIQQDLGRKFKALVSHDGTGFGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVVHNDFFDRLSVAEGVGLFNVLQEK
VPSRFLNFPDETHWVTKPENSLVWHQQVGLGWVNWKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>accession|AAD52013.1|Allergen Tri r 2 allergen [Trichophyton
rubrum]
MGFITKAIPIVLAALSTVNGARILEAGPHAEAIPNKYIVVMKREVSDEAFNAHTTWLSQS
LNSRIMRRAGSSKPMAGMQDKYSLGGIFRAYSGEFDDAMIKDISSHDDVDFIEPDFVVRT
TTNGTNLTHQDNVPSWGLARVGSKPKGGTTYYYDPSAGKGVTAIYIDTGIDIDHEDFQGR
AKWGENFVDQONTDCNGHGHVAGTVGGTKYGLAKGVSLVAVKVLDCDGSNSGVIKGM
EWAMRQASGGNGTAKAAGKSVNMMSLGGPRSEASNQAAKAISDAGIFMAVAAGNENMDA
QHSSPASEPSVCTVAASTKDDGKADFVSNYAVVDVYAPGKDITSLKPGGSTDTLSGTSMA
SPHVCGLGAYLIGLQGGPGLCDTIKKMANDVIQSPGEGTTGKLIYNGSGK

>accession|AAD52615.1|Putative phospholipase A1 [Polistes
annularis]
MSPDCTFNEKDIVFYVYSRDKRDGIIKKETLTNYDLFTKSTISKQVFLIHGFLSTGNN
ENFVAMSKALIEKDDFLVISVDWKKGACNAFASTKDALGYSKAVGNTRHVGVKVFADFTKL
LVEKYKVLISNIRLIGHSLGAHTSGFAGKEVQKLGKYKEIIGLDPAGPYFHRSDCPDR
LCVTD AEYVQVIHTSIIILGVYYNVGSVDFYVNYGKNQPGCNEPSCSHTKAVKYLTECIKH
ECLLIGTPWKYFSTPKPISQCRGDTCCVGLNAKSYPARGAFYAPVEANAPYCHNEGIL

>accession|AAD52616.1|Putative hyaluronidase precursor [Polistes
annularis]
YVSLSPDSVFNIITDDISHQILSRNCERSKRPKRVFSIYWNVPTFMCHQYGMNFDEVTD
FNIKHNKDNFRGETISIIYDPGKFPALMPLKNGNYEERNGGVPQRGNITIHLLQFQFNEDL
DKMTPDKNFGGIGVIDFERWKP IFRQNWGNTEIHKKYSIELVRKEHPKWSESMIEAEATK
KFEKYARYFMEETLKLAKKTRKRAKWWGYGFPYCYNVTPNNPGPCDAKATIENDRLSWM
YNNQEI LFPVYVRHEQKPEERVYLVQGRIKEAVRISNNLEHSPSVLAYWVYVYQDKMDI
YLSETDVEKTFQEIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNTLGPFAVNVTEVTVN
GRSSLNF

>accession|AAD52672.1|Putative 98kDa HDM allergen
[Dermatophagoides farinae]
MKTIIYAILSIMACIGLMNASIKRDHNDYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFIDEYKYTIQVFDPYQDDNHNSWEKRGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSDMAANPTYRQQFIQSVLDFLQEYKFDGLDLDWEYPGSRLGNPKIDKQNYLALV
RELKDAFEPHGYLLTAAVSPGKDKIDRAYDIKELNKLFDWMNVMTYDYHGGWENFYGHNA
PLYKRPDETDELHTYFNVNYTMHYLNNGATRDKLVMGVFPFYGRAWSIEDRSKLLKLGPA
KGMSPPGFISGEEGVL SYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYYDDLASISC
KLAFLKELGVSGVMVWSLENDDFKGHCGPKNPLLNVHNMINGDEKNSFECILGPSTTTP
TPTT
TPSPTTTEHTSETPKYTTYVDGHLIKCYKEGDIPHPTNIHKYL VCEFVNGGWVWHIMPCP
PGTIWCQEKLTCIGE

>accession|AAD55587.1|Allergen profilin [Arachis hypogaea]
MSWQTYVDNHLCEIEGDHLSSAAILGQDGGVWAQSSHFQFKPEEITAIMNDFAEPSGL
APTGLYLGGTKYMIQGEPGAIIIPGKKGPGGVTEIETNQUALIIGIYDKPMTPGQCNMIVE
RLGDYLIDTGL

>accession|AAD56337.1|Allergen allergen Arah6 [Arachis hypogaea]
AHASAMRRERGRQGDSSSCERQVDGVNLKPCEQHIMQRIMGEQEYDSYFNFGSTRSSDQQ
QRCCDELNEMENTQRMCCEALQQIMENQCDGLQDRQMVQHFKRELMNLPQQCNFGAPQRC
LLDVSSGGRC

>accession|AAD56719.1|Putative allergen [Arachis hypogaea]
MMVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEH
MRRRVEQEQQEQDEYPYSRRGSRGRQPGESDENQEQRCCNELNRFQNNQRMCQALQQI
LQNQSFVWPAGQEPVASDGEQAQELAPELRVQVTKPLRPL

>accession|P42040.2|Putative Enolase (2-phosphoglycerate
dehydratase) (2-phospho-D-glycerate hydro-lyase) (Allergen Cla h
6) (Cla h VI) [Davidiella tassiana]
MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIAPALIKENLDVKDQAAVDAFLNKLDGTTNKTIGANAILGVSMVAK
AAAAEKRVPLYAHISDLSGTTKPFVLPVPPFMNVVNGGSHAGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLKSLTKKRYGQSAGNVGDEGGVAPDIQTAEALDLITDAIEEAGYTGO
IKIAMDVASSEFYKKADEKKYDLDFKNPDSKSKWITYEQLADQYKQLAAKYP IVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKKAIEKACNALLKVNQIGTITEAI
NAAKDSFAAGWGMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKAVYAGDNFRTAINL

>accession|CAB58171.1|Putative troponin-like protein [Anisakis
simplex]
MAEDIEEILAEIDGSQIEEYHKFFDMFDRGKQGYIMATQIGQIMHAMEQDFDEKQLRKLII
RKFDADGSGKLEFDEFKALVYTVANTVDKETLQKELREAFRLFDKEGNGYISRPTLKALL
KEIADDLSDDQLEAAVDEIDEDGSGKIEFEFVWELMAGEAD

>accession|AAB82772.2|Allergen beta-1, 3-glucanase [Musa
acuminata AAA Group]
MATKASLSIKGFALLVSVLVAVPTRVQSIGVCYGM LGNNLPPPSEVVSLSYKSNNIARMRL
YDPNQAAALQALRNSNIQVLLDVPRSDVQSLASNPAAAGDWIRRNVVAYWPSVVSFRYIAVG
NELIPGSDLAQYILPAMRNIIYNALSSAGLQNIQVSTAVDTGVLGTSYPPSAGAFSSAAQ
AYLSPIVQFLASNGAPLLVNVYPYFSYTGNGPQISLPYALFTASGVVVDGRFSYQNLFD
AIVDAVFAALERVGGANVAVVSESGWPSAGGGAEASTSNARTYNQNLIRHVGGGTTPRRP
GKEIEAYIFEMFNENQKAGGIEQNFGLFYPNKQP VYQISF

>accession|P35776.2|Putative Venom allergen 2 (Venom allergen II) (Allergen Sol r 2) (Sol r II) [Solenopsis richteri]
DIEAQRVLRKDIAECARTLPKCVNQPDPLARVDVWHCAMSQRGVYDNPDPVAVVKEKNSK
MCPKIITDPADVENCCKVVSRCVDRETQRPRSNRQKAINITGCILRAGVVEATVLAEREK

>accession|P35779.2|Putative Venom allergen III (Allergen Sol r 3) (Sol r III) [Solenopsis richteri]
TNYCNLQSCRRNNAIHTMCQYTSPTPGPMCLEYSNVGFTDAEKDAIVNKHNELRQRVASG
KEMRGTNGPQPPAVKMPNLTWDPPELATIAQRWANQCTFEHDACRNVERFAVGQNIATSS
SGKNKSTLSDMILLWYNEVKDFDNRWISSFPSDGNILMHVGHYQTQIVWAKTKKIGCGRIM
FKEDNWNKHLYLVCNYGPAGNVLGAQIYEIKK

>accession|P81657.1|Putative Venom allergen 5 (Antigen 5) (Ag5) (Allergen Vesp m 5) [Vespa mandarinia]
NNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKASGLTKAEKLEILKQHNEFRQKVARGLE
TRGKPGPQPPAKSMNTLVWNDELAQIAQVWAGQCDYGHVCRNTAKYSVQNIENGAENGSTA
ASFASVSNMVQMWAVEVKNYQYGSTKNKLIIEVGHYTMVWAKTKEIGCGSIKYEIENGWHR
HYLVCNYGPAGNIGNEPIYERK

>accession|CAB59976.1|Putative Gly d 2 [Glycyphagus domesticus]
GKMNFTDCGHNEIKELSVSNCTGNYCVIHRGKPLTLDAKFDANQDTASVGLVLTAIIDGD
IAIDIPGLETNACKLMKCPIRKGEHQELIYNIGEIPDATPEIKAKVKAQLIGEHEGVLACG
WVDGEVQE

>accession|CAB62212.1|Putative allergen, partial [Lepidoglyphus destructor]
DDFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFID
SAKGHFERELKRADLNLAEKFNFEALSTGAVLHKDLTALATKVKAIEK

>accession|CAB62213.1|Putative allergen [Lepidoglyphus destructor]
MANIAGQYKLDKSENFQFLDKLGVGFLVKTAAKTVKPTLEVAVDGDYIFRSLSTFKNT
EIKFKLGEEFEEDRADGKRVKTVIVKGDGNKFVQTYGDKEVKVREFKGEVEVTASVD
GVTSVRPYKRA

>accession|CAB62551.1|Allergen cup a 1 protein [Cupressus arizonica]
DNPIDSCWRGDSNWDQNRMKLADCVVGFSGSSTMGKGGEIYTVTSSDNPNVNPPTPGTLRY
GATREKALWIIIFSQNMNIKLMPLYVAGYKTIDGRGAVVHLGNGGPCLFMRKASHVILHG
LHIHGCNTSVLGDVVLVSESIGVEPVHAQDGAITMRNVTNAWIDHNSLSDCSDGLIDVTL
GSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVHV
ANNNYDQWNIYAIGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRSTR
DAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQONAGVVA

>accession|AAF18269.1|Putative vicilin-like protein precursor [Juglans regia]
RGRDDDEENPRDPREYRQCQEYCRQGGQQRQQQCQIRCEERLEEDQRSQEERERRR
GRDVEDQNPDRPEQRYEQCQQQCERQRRGQEQTLRRCRCEQRRQEEERERQRGRDRQDPQ
QQYHRCQRRQCIQEQSPERQRQCQQRCERQYKEQQGRERGPPEASPRRESRGRREEEQQRHN
PYYFHSQSIRSRHESEEGEVKYLRFTELLRGIENYRVVILDANPNTSMLPHHKDAE
SVAVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATVYVINQDSNERLEMVLLQPVN
NPGQFREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDRLERFFDQQEQREGVIRASQE
KLRALSQHAMSAGQRPWGRSSGGPISLKSESPSYSNQFGQFFEACPEEHRQLQEMDVLV
NYAEIKRGAMMVPHYNSKATVVVVYVEGTGRYEMACPHVSSQSYEGQGRREEQEEEEESTGR

FQKVTARLARGDIFVIPAGHPAITASQENENLRLLGFDINGENNQRDFLAGQNNIINQLE
REAKELSFNMPREEIEEIFESQMESYFVPTERQSRRGQGRDHPLASILDFAFF

>accession|CAB63699.1|Allergen pollen allergen [Lolium perenne]
MASSSSVLLVVALFAVFLGSAHGIKVPPGPNITAEYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDSLGHAFGSMAKKGEEQKLRSGELELQFRRVKCKYPDGTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEVEDVIPEGWKADTSYSAK

>accession|CAB64344.1|Allergen pollen allergen [Lolium perenne]
MAVQKYTVLFLAVALVAGPADSYAADAGYTPAAAAATPATPAATPAAGGGKATTDEQKLL
EDVNAAGFKAAVAADANAPPADKFKIFEAAFSECKGLLATSDAKAPGLILKLDTDYDVAY
KAGEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPAATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALKECTGGAYETYKFIPLSLEAAVKQAYATTVA
APEVKYAVFEAALTKAITAMSQAQKVAKAAAAATGAATVATGAATAAAGGATAAAGGYK
A

>accession|AAF23726.1|Allergen allergen Pen n 13 [Penicillium
chrysogenum]
MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFSTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDENTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSTYTYDSTAGEGVVFFYGVDTGIDISHSDFGGRKWTNVVDN
DNTDGNHGHGHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVI SGMDWAVKDAKSR
GANGKYVMNTSLGGEFSAVNDAANVVKSGIFLSVAAGNEAENASNSSPASAAEACTIA
ASTSTDGSASFNTNFGSVVDLYAPGQSITAAYPGGSKTLSGTSMAPHVAGVAAYLMAL
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>accession|CAB64688.1|Allergen rAsp f 8 [Aspergillus fumigatus]
MKYLAFLLLALAGNTSPSSEVDKAVLSSVGIDADEERLNKLI AELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGAAAPAAKEKNEEEKEESEDEDMGFGLFD

>accession|CAB65963.1|Putative putative allergen [Lepidoglyphus
destructor]
MQYLAIIVIVALAGLSAAAHKPAYYDDNMANQMVDQIVKSLTTKKELDPFKIEQTKVPID
KKIGLIHIKGSATIKNAVITGLSHISRGRDAKIDTDGGAFATLKLGDKNIRIKTDLHLD
LGKIIHPNLKFEHGIDIDMKLKLKLD AEGKPSLDQFEIDEFEQVELFIHGLGPLDPLVD
VIADSFVKYFNPQARKLVTMMLKPILVEEIKKLLKN

>accession|AAF25553.1|Allergen latex protein allergen Hev b 7
[Hevea brasiliensis]
MATGSTPLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLDPDARIADYFDIIAGT
STGGLITMMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIAATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>accession|AAF26449.1|Allergen lipid transfer protein precursor
[Prunus avium]
MACSAMTKLALVVALCMVSVPIAQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNPYKISPSTNCATVK

>accession|AAF26451.1|Putative lipid transfer protein precursor

[*Pyrus communis*]

MASSAVIKLALVVALCMAVSVAHAITCSQVSNLAPCINIVRS GGAVPPACCNGIKTING
LAKTTPDRQAACNCLKNLAGSVSGVNP GNAESLPGKCGVNPYKISTSTNCATVK

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

MIKIFLVITILIVITVTVDARFPRSLQPKWAYLDSNEFPRSKIGDSPIAGVVGGQDADLAE
APFQISLLKDY LIMKRHMCGGSLISESTVVTA AHCTY GQKASSLSVRYGTNQR TSSSYGD
LKVKPIIQHESYEQDQTQTDKTI IILPNPVVPSTNVQMNEIETEDIVDGDKVTIYGWGLT
DGNGKDL PDKLQKGSMTIVGNDR CN EKWGSINAIHPGMICALDKTQSGCNGDSGGPLVSA
NRKLTGIVSWGPSKCPPGEYMSV FTRPKYYLDWITKNIV

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

MEAIKNKMQAMKLEKDNAIDRAEIAEQSRDANLRAEKSEEEVRGLQKKIQQIENELDQV
QESLTQANTKLEEKESLQTAEGDVAALNRRIQLIEEDLERSEGR LKIATSKLEEASQSA
DESERM RKMLEHR SITDEERMEGLES QLKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEK AQQREEAYEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDEL DQTF AELTGY

>accession|AAF31151.1|Putative calcium-binding protein [*Olea europaea*]

MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDELAGVLKALGSNTSKEEIGRI
MEEIDTDKDGFINVQEF AAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERYAEHDCVEMIKSVSDSDGDGYVSFEF EFKMMTNKSGNNSQAEPK

>accession|AAF31152.1|Putative calcium-binding protein [*Olea europaea*]

MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDELACALKALGSNTSKEEIARM
MEEIDTDKDGFINVQEF AAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERYAEHDCVEMIKSVSDSDGDGYVSFEF EFKMMTNKSGNNSQAEPK

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

MSWQTYVDEHLMCDIDGHHLTAAAIIGHDGSVWAQSSSFPQFKPEEVAAIMKDFDEPGSL
APTGLHLGGTKYMVIQGE PGAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

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

MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAIMKDFDEPGSL
APTGLHLGSTKYMVIQGE PGAVIRGKKGSGGITVKKTSQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

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

MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSGFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGE PGAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

>accession|AAF35431.1|Putative heat stable allergen tropomyosin [*Charybdis feriatus*]

MDAIKKKMQAMKLEKD NAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLPEEDLERSEERLNTATTKLAEASQAA
DESERM R KVL ENRSL SDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE

ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEK

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

GKMKFKDCGKGEVTELDITDCSGDFCVIHRGKPLTLEAKFAANQD'TTKATIKVLAKVAGT
PIQVPGLETDGCKFVKCPIKKGDPIDFKYTTTTVPAILPKVKAEVTAELVGDHGV LACGRF
GRQVE

>accession|CAA09886.2|Putative allergen [Malassezia sympodialis]
MVALKFAAVLSVVAAMAPSSMDRRASPDNQVWVTSASDYCLILPRHRESIGDSESPG
RMRSFC SKPYDSSQGQINPGFWKEVHFKKTKNYVQLTGCINPRVQSTLLSHDDGGQYDSN
GNGGVGNPEGSVCLGYSSYVELVEPSDGKACIRCCVNDKYCDVGHDEDGCEAVIPGQYC

>accession|CAA09938.2|Putative tropomyosin [Chironomus kiiensis]
MDAIIKKMQAMKLEKDNALDRALLCENQARDANLRAEKAE EEEARTLQKKIQTIENDLDQT
QGQETLVNGKLEGKEKALQNAESEVAALNRRIQLLGEDLDRSEERLASATAKLSEASAAA
DESERARKILENRS LADEERMDALENLKEARFLAE EADKKYDEVARKLAMVEADLERAE
ERA EAGEAKIVELEEEELRVVGNLKSLEVSEEKANQRE E EYKNQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVSEKEKYREIGDDLDTAFVELILKE

>accession|CAB82855.1|Putative convicilin [Pisum sativum]
MATTIKSRFPLLLLLGIIFLASVVCVYANYDEGSEPRVPAQREERGRQEGEKEEKRHGEGE
RPSYEKEE EEEEGQRERGRQEGEKEEKRHGEGWRPSYEKQE E E E E KQKYRYQREKE E E E E K
QKYQYQREKKEQKEVQPGRERWEREEDEEQVDEEWRSQRREDPEERARLRHREERTKRD
RRHQREG E E E E ERSSESQERRNPFLFKSNKFLTLFENENGHIRLLQRFDKRSDLFENLQNY
RLVEYRAKPHTIFLPQHIDADLILVLSGKAILTVLSPNDRNSYNLERGDTIKLPAGTTS
YLVNQDDEEDLRLVDLVIPVNGPGKFEAFDLAKNKNQYLRGFSKNILEASYNTRYETIEK
VLL E EQEKDRKRRQQGEETDAIVKVSREQIEELKKLAKSSSKSLPSEFEPINLRSHKPE
YSNKFGKLF EITPEKKYPQLQDLDFVSCVEINEGALMLPHYNSRAIVVLLVNEGKGNLE
LLGLKNEQQEREDRKERNNEVQRYEARLSPGDVVIIPAGHPVAITASSNLNLLGFGINAE
NNERNFLSGSDDNVISQIENPVKELTFPGSVQEINRLIKNQKQSHFANAEPQEKEQGSQG
KRSPLSSILGTFY

>accession|A59055|Allergen phospholipase A2 (EC 3.1.1.4), venom -
Indian honeybee [Apis cerana]
IIYPGTLWCGHGNVSSGPNELGRFKHTDACCRTDHMC PDVMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGEKISSYFVGKMYFNLDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKVYQWFDLRKY

>accession|AAF65312.1|Putative venom allergen Sol g 4.01
precursor [Solenopsis geminata]
MKTFFVLVSCLLVFTQIIYAVDIKELKIMNRILEKCI RTV PKGENDP INPLKNVNVLYCAF
SKRGIFT PKGVNTKQYIN YCEKTI INPADIKQCKKLISKCIKKVYDRPGPIIERSKNLLS
CVLKKGVLELTVYGKKK

>accession|AAF65313.1|Putative venom allergen Sol g 4.02
precursor [Solenopsis geminata]
MKTFFVLVSCLLVFTQIIYAVDIKELKIVNRILKCKI RTV PKGENDP INPLKNVNVLYCAF
SKRGIFT PKGVNTKQYIN YCEKTI INPADIKQCKKLISKCIKKVYDRPGPIIERSKNLLS
CVRKKGVLELTVYGKKK

>accession|AAB50734.2|Allergen Cyn d 1 [Cynodon dactylon]
AIGDKPGPNITATYGSKWLEARATFYGSNPRGAAPDDHGGACGYKDVDPKPPFDGMTACGN
EPIFKDGLGCRACYEIKCKEPVECSGEPVLVKITDKNYEHIAAYHF DLSGKAFGAMAKKG

QEDKLRKAGELTLQFRRVKCKYPSGTKITFHIEKGSNDHYLALLVKYAAGDGNIVAVDIK
PRDSDEFIPMKSSWGAIWRIDPKKPLKGPFSIRLTSEGGALVQDDVIPANWKPDTVYTS
KLQFGA

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

MKGFLSLTLLPLLVAASPVAVNSIHNDAAPISSMTSKDIPDSYIVVFKKHVDPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGFDFEAFMGLKHTFHIAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFNKYLYAEEGGEGVDAYV
IDTGANVKHVDVEGRANWGKTIPQGDADDEDGNHGHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGVWAAEAHIKSKKGDKKFKGGSVANMSLGGGSSRTLDLAVNAAVD
AGIHFAVAAGNDNADACNYSAAAEEKAITVGASTLADERAYFSNYGKCTDIFAPGLNLS
TWVGS DHATNTISGTSMASPHIAGLLAYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGIIIDSAEKAFHKE
LGAIYSEIKDAVSV

>accession|AAF72534.1|Putative tropomyosin [Blattella germanica]

MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANIRAEEKAESEARSLOKKIQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQIKTLNTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKYICDDLDMTFTELIGN

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

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTATSAEDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCVTLGDLVSESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVA
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCESTSACANWWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

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

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLEMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCVTLGDLVSESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVA
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

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

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHSCVTLGDLVSESIGVEPVHAQDGDITMRNVT
NAWIDHNSLPDCSDGLIDVTLSSGTITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVA
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

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

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGNVLVSESIGVEPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVSTSAKANWVWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

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

MDSPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGNVLVSESIGVEPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVSTSAKANWVWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>accession|AAF72991.1|Putative beta-expansin [Oryza sativa]
MASSCLLLACVVAAMVSAVSCGPPKVPVPGPNITAAYGKQWLEARGTWYGKPKGAGPDDN
GGACGYKDIDKAPFLGMNSCGNDPIFKDGGKCGSCFEVKCSKPEACSDKPVIIHITDMNT
EPIAAAHFDLSGHAFGAMAKEGKDEELRKAGIIDMQFRRVRCKYPGETKVTTFHVEKGSNP
NYFAVLVKYVGGDGDVVKVELKEKGSEEWKPLNESWGAIWRIDTPKPLKGPFSLRVTTES
DQKLVANDVIPDNWKANALYKSEIQVD

>accession|AAF75225.1|Putative paramyosin isoform [Anisakis
simplex]

PRAAGELQKMSLYEKAVEQKEALARENKKLQDELHEAKEALADANRKLHELDLENARLA
GEIRDLQTALKESDAARREAENRAQRLAADLQQLRIEMERRLQEKEEEMEALRKNMQFEI
DRLTAALADAEARMKAEISRLKKKYQAEIAELEMTVDNLNRANIEAQKTIKKQSEQMKIL
QASLEDTQRHLQQTLDQYALAQRKISALSAELEECKVALDNAIRARKQAEVDLEEANVRI
AELVSLTNNLTTIKNKLETELSTVRADLDETTKELHAADERANRALADAARAIEQLHEEQ
EHSMKIDALRRSLEEQVKQLQVQIQEAEAAALLGGKRVIKLETRIRDLETALDEETRRH
KETQNALRKKDRRIKEVQMQVDEEHKQFVMAQDTADRLLEKMNIQKRQLGEAESFTMANI
QRVRRYQRELEDAEGRADQAESSLHLIRAKHRSSVVTGRSASASKVYVLEDEQ

>accession|AAF80164.1|Putative pollen major allergen 1-2
[Juniperus virginiana]

MASPCLIAFLVFLCAIVSCSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVVPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSGTGITIFNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSAKANWVWRSTRDAFNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVA

>accession|AAF80166.1|Putative pollen major allergen 1-1
[Juniperus virginiana]

MASPCLIAFLVFLCAIVSCSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCNTSVLGDVLVSESIGVVPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSGTGITIFNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDPWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSAKANWVWRSTRDAFNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVA

>accession|CAB96215.1|Allergen profilin [Hevea brasiliensis]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAMKDFDEPGSL
APTGLHLGGTKYMIQGEPEGAVIRGKKGSGGITVKKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

>accession|AAF82096.1|Putative antigen 5 precursor [Glossina morsitans morsitans]
MNFVLATLSLLILGSAAVGGDYCGLCDNHDACVMQNVFQSGCPSGAKMIDLNKYQSALLD
AHNKKRNHVAGGGESKLRACQMATMKWDESELAKLAEYNVKQCQMNHDCRNTVKFKYAG
QNLAEELGRSGGPPDYRKLIEKAVDKWYEEVKDCNQGYIDSYPMNYRGP AIGHFTVMVAE
RNTHVGC AASEYTKSNGFQYFLMACNYATTNMEFPIYKSCGSSAQDCKSGKNSKYPNLC
SPNEKYEVNKWIKNGVEYH

>accession|CAB96931.1|Putative thioredoxin h [Triticum aestivum]
MAASAATATAAAV GAGEVISVHSLEQWTMQIEEANA AKKLVVIDFTASWCGPCRIMAPIF
ADLAKKFPAAVFLKVDVDELKSIAEQFSVEAMPTFLFMKEGDVKDRVVGAIKEELTNKVG
LHAAQ

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

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

>accession|AAF86462.1|Allergen Der p II allergen [Dermatophagoides pteronyssinus]
MYKILCLSLVA AVARDQVDVKDCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEAVFEAN
QNTKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

>accession|P82534.1|Allergen Nonspecific lipid-transfer protein 1 (LTP 1) (Major allergen Pru d 3) [Prunus domestica]
ITCGQVSSNLAPCIN YVKG GAVPPACCNGIRNVN LARTTADRRAACNCLKQLSGSIPG
VNPNNAAALPGKCGVNPYKISASTNCATVK

>accession|CAC00532.1|Putative enolase, isoform 1 [Hevea brasiliensis]
MAITIVSVRARQIFDSRGNPTVEADV KLS DGYLARA AVPSGASTGIYEAL ELRDGGSDYL
GKGVSKAVENVNIIIGPALV GKDP TDQV GIDNFMVQQLDGT VNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYEHIANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDQTYDLNFK EENNGS QKISGEALKDLYKSFVAEYPIVSI
EDPFDQDDWAHYAKLTSEIGEKVQIVGDDLLVTNPKRVEKAIKEKACNALLLKV NQIGSV
TESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIEEELGSEAVYAGANFRKPVPEPY

>accession|CAC05258.1|Putative Cup a 3 protein [Cupressus

arizonica]
VKFDIKNQCGYTVWAAGLPGGGKEFDQGQTWTVNLAAGTASARFWGRTGCTFDASGKGC
RSGDCGGQLSCTVSGAVPATLAEYEQSDQDYDVS LVDGFNIPLA INPTNTKCTAPACKA
DINAVCPSELKVDGGCNSACNVLQTDQYCCRNAYVNNCPATNYSKIFKNQCPQAYSYAKD
DTATFACASGTDYSIVFCP

>accession|AAG08987.1|Putative tropomyosin [Haliotis
diversicolor]
MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGARVLESRSLADDERIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKEKYKAISDELDTFAELAGY

>accession|AAG08988.1|Putative tropomyosin [Perna viridis]
MDAIKKKMVAMKMEKKNALDRAEQLEQKLRTEEAKAKIEDDYNSLVKKNIQTENDYDNC
NTQLQDVQAKYERAQKIQEHEQEIQSLTRKISLLEEGIMKAEERFTTASGKLEEASKAA
DESERNRKVLENLNSGNDERIDQLEKQLTEAKWIAEEADKKEYEAARKLAITEVDLERAE
ARLEAAEAKVIDLEEQLTVVGANIKTLQVQNDQASQREDSYEETIRDLTNRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLTEKEKYKAISDELDTFAELAGY

>accession|AAG08989.1|Allergen tropomyosin [Chlamys nobilis]
MDAIKKKMAMKVDRENAQDLAEQMEQKLDKETAKAKLEEEFNELQKLTATENNYDTV
NEQLQEANTKLEENSEKQITQLESVDVGLQRRLLLEEDYERSEEKLNSTTEKLEEASKAA
DESERNRKVLEGRSNSYEERIDELEKQLETAKNVATDADHKFDEAARKLAITEVDLERAE
TRLEAADAKVLEEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTSLKDAENRAT
EAERQVVKLQKEVDRLLEDELLAEKERYKAISDDLDTFAEIAGY

>accession|CAC05582.1|Putative pollen major allergen 2 protein
[Juniperus ashei]
MSMKFMAALAFALQQLIVMAAGEDQSAQIMLSDSTKQYHRSSRNLRKRVHARHDVAIVF
NVEHYGAVGDGKHDSTDAFEKTWNAACNKL SAVFLVPANKKFVNNLVFYGPCQPHFSFK
VDGTIAAYPDPKWKNSKIWMHFARLTD FNLMGTGVIDGQGNRWSDQCKTINGRTVCND
KGRPTAIKIDFSKSVTVKELTLTNSPEFHLVFGCECDGVKIQGIKIKAPRDSPTDGDIDIF
ASKRFEIEKCTIGTGDDCVAVGTGSSNITIKDLTCGPGHGMSIGSLGKGNRSEVSFVHL
DGAKFIDTQNGLRIKTWQGGSLASHITYENVEMINAENPILINQFYCTSAACKNQRSA
VKIQDVTFKNIHGTSATTAIQLMCSDSVPSCNIKLSNVFLKLTSGKVATCVNKNANGYY
TNPLNPCKSLHHPGRTPKELELHQPTLLMDEKMGASLNSSPPNCKNKCKGCQPCPKL
IIVHPNQPEDYYPQRWVCSCHNKIYNP

>accession|BAA23360.2|Putative alpha subunit of beta conglycinin,
partial [Glycine max]
VEKEECEGEI PRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEHEQREE
QEWPRKEEKRGEGSEEEDEDEDEEQDERQFPFPRPHQKEERKQEEDEDEEQRESEES
EDSELRRHKNKNPFLFGSNRFETLFKNQYGRIRVLQRFNQRSPQLQNLRDYRILEFNSKP
NTLLLPNHADADYLIVILNGTAILSLVNNDDRDSYRLQSGDALRVPSGTTYVVNPDNNE
NLRLITLAI PVNKGRFESFFLSSTEAAQSYLQGF SRNILEASYDTKFEEINKVLF SREE
GQQQGEQRLQESVIVEISKEQIRALSKRAKSSSRKTISSEDKPFNLRSDPIYSNKLKGF
FEITPEKNPQLRDLDFLSIVDMNEGALLLPHFNSKAIIVILVINEGDANIELVGLKEQQQ
EQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNFFAIGINAENNQRNFLAG
QDNVISQIPSOVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSILR
AFY

>accession|BAA74452.2|Putative alpha' subunit of beta-
conglycinin, partial [Glycine max]

VEEEEECEEGQIPRPRPQHPERERQOHGEKEEEDEGEQPRPFPFPRPRQPHQEEEEHEQKEE
HEWHRKEEKHGGKGSSEEEQDEREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEEEDQD
EDEEQDKESQESSEGSQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRLQRFNKRSSQ
LQNLRDYRILEFNKPNLTLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDALR
VPAGTTYVYVNPNDNENLRMITLAIIPVNKPGRFESFFLSSTQAQQSYLQGFSKNILEASY
DTKFEEINKVLFGRREGQQQGEERLQESVIVEISKKQIRELSKHAKSSSRKTISSEDKPF
NLRSRDPIYSNKLKGLFEITPEKNPQLRDLDFVLSVDMNEGALFLPHFNKAIVLVIN
EGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLNFFA
FGINAENNQRNFLAGSKDNVISQIPSQVQELAFPGSAKDIENLIKSQSESYFVDAQPQQK
EEGNKGRKGPLSSILRAFY

>accession|CAC09234.1|Allergen Der p 7 allergen-like
[Dermatophagoides pteronyssinus]
MMKLLLIAAAAFVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSDKFER
HIGIDLKQQLDMRNIQVRGLKQMKRVGDANVKSEGDGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVVNHIGGLSILDPIFA
VLSDVLTAFQDTVRAEMTKVLAPAFKKELENNQ

>accession|AAF80379.2|Allergen acidic Cyn d 1 isoallergen isoform
1 precursor [Cynodon dactylon]
AMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGACGYKDVKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSPPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFPLPMKQSWGAIWRMDPPKPLKGPFTIRLTSESGGHVEQDDVIPEDWKPDTVYKS
KIQF

>accession|BAB15802.1|Putative glycinin A3B4 subunit [Glycine
max]
MGKPFFTLSLSSLCLLLLSSACFAITSSKFNECQLNLLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGLHLPSPYSPYQMIIVVQKGGAIGFAFPGCPETFKEPQQQS
SRRGSRSSQQQLQDSHQKIRHFNEGDVLVIPPVGYWYTYNTGDEPVVAISLLDTSNFFNNQL
DQNPRVLYLAGNPDIEHPETMQQQQQKSHGGRKQGGHQQQEEEGGSVLSGFSKHFQAQS
FNTNEDTAEKLRSPDDERKQIVTVEGGLSVISPKWQEQEDEDEDEDEEYEQTPSYPPRRP
SHGKHEDDEDEDEEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLVYRNGIYSPHWNLNANSVIYVTR
GKGRVRVNCQGNVAVFDGELRRGQLLVPPQNFVVAEQGGEQGLEVVFKTHHNAVSSYIK
DVFRAIPSEVLSNSYNLQSQVRQLKYQGNLPLVNP

>accession|AAG22740.1|Putative allergenic isoflavone reductase-
like protein Bet v 6.0102 [Betula pendula]
MAHKSILIIIGGTGYIGKFIVEASAKSGHPTFALVRESTVSDPVKGLVEKFKGLGVTLL
HGDLYDHESLVKAFKQVDVVIISTVGHLQLADQVKIIAAIKEAGNIKRFFPSEFGNDVDRV
HAVEPAKTAFATKAEIRKTEAEGIPYTYVSSNFFAGYFLPTLAQPGLTSPPREKVVIFG
DGNARAVFNKEDDIGTYTIRAVDDPRTLKIVYIKPAKNIYSFNEIVALWEKKIGKTLEK
IYVPEEKLLKDIQESPIPINVILAINHSVFKGDHTNFEIEASFGVEASELYPDVKYTTV
EEYLQQFV

>accession|AAG23840.1|Putative oleosin [Sesamum indicum]
MADRDRPHPHQIQVHPQHPRYEGVKSLLPQKGPSTTQILAIITLLPISGTLCLLAGIT
LVGTLIGLAVATPVFVIFSPVLVPAAILIAGAVTAFLTSGAFGLTGLSSLSWVLSFRRA
TGQGPLEYAKRGVQEGTLYVGEKTKQAGEAIKSTAKEGGREGTART

>accession|CAC13961.1|Putative IgE-binding protein MnSOD [Hevea
brasiliensis]
QTFSLPDLPYDYGALEPAISGEIMQLHHQKHQTYITNYNKALEQLNDAIEKGDSAIVK

LQSAIKFNGGGHVNHISIFWKNLAPVREGGGELPHGSLGWADADFGSLEKLIQLMNAEGA
ALRGSWVWLALDKELKLVVETTANQDPLVTKGPTLVPLLIGIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>accession|CAC14917.1|Putative triosephosphat-isomerase [Triticum
aestivum]

MGRKFFVGGNWKNCNGTVEQVESIVNTLNAGQIASTDVVEVVVSPPYVFLPTVKGKLRPEI
QVAAQNCWVKKGGAFTEVSAEMLVNLGVPWVILGHSERRSLMGESSEFVGEKVAYALAQ
GLKVIACVGETLEQREAGSTMAVVAEQTKAIADKIKDWTNVVVAYEPVWAIPTGKVASPA
QAQEVHANLRDWLKTNVSPEVAESTRIIYGGSVTGASCKELAAQPDVDGFLVGGASLKPE
FIDIINAAVKSA

>accession|AAG31026.1|Allergen subtilisin precursor [Bacillus
licheniformis]

MMRKKSFVLGMLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNPDVAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASVAGEAYNTDGNHGHGTHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSGSGSYSGIVSGIEWATTNGMDVINMSLGGASGSTAMK
QAVDNAYAKGVVVVAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTNTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINV

>accession|AAG35601.1|Putative profilin 5 [Zea mays]

MSWQAYVDDHLLCDIEGQHLASAAIVGHGDSVWAQSENFPELKPPEEVAGMIKDFDEPGTL
APTGLFVGGTKYMVIIQGEPEGVVIRGKKGTGGITIKKTGMSLIIGIYDEPMTPGQCNMVVE
RLGDYLIEQGF

>accession|1G5U_A|Allergen Chain A, Latex Profilin Hevb8 [Hevea
brasiliensis]

MSWQTYVDDHLMCDIDGHRLTAAAIIGHGDSVWAQSSSFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIIQGEPEGAVIRGKKGSGGITVKRTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

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

AEAEFNNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKI
ARGLETRGNPGPQPPAKNMKNLVWNDELAYVAQVWANQCQYGHDTCRDVAKYQVGGQVAL
TGSTAAYDDPVKLVKMWEDVVDYDYNPKKFKSGNDFLKTGHYTMVWANTKEVCGCSIKY
IQEKWHKHVLCNYGSPGNFKNEELYQTK

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

GVFNJETETTSVIPARLFKAFILDGDTLFPQVAPQAISSVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATGDGGSILKISNKY
HTKGDHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|AAG40329.1|Allergen major allergen variant Cor a
1.0402 [Corylus avellana]

MGVFSYEDEATSVIPARLFKSFVLDADNLI PKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVVEIDHANFKYCYSIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGL FKA VEAYLLAHPD TYC

>accession|AAG40330.1|Allergen major allergen variant Cor a
1.0403 [Corylus avellana]

MGVFCYEDEATSVIPARLFKSFVLDADNLI PKVAPQHFTGAENLEGNGGPGTIKKITFA

EGSEFKYMKHKVVEEIDHANFKYCYSIIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGLKFKAVEAYLLAHPDTC

>accession|AAG40331.1|Allergen major allergen variant Cor a
1.0404 [Corylus avellana]
MGVFSYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTSAENLEGNNGPGTIKKITFA
EGNEFKYMKHKVVEEIDHANFKYCYSIIIEGGPLGHTLEKIPYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEEIKAGKEKAAGLKFKAVEAYLLAHPDAYC

>accession|AAG42254.1|Putative pollen allergen Poa p 5 [Poa
pratensis]
MAVQKYTVALFLTVALVAGPAASYAADAGYAPATPAAAGAAAGKITPTQEQLMEDINVG
FKA AVAAAAGAPPADKFKTFQAAFSASVEASA AKLNAAQAPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAAFTEALRIIAGVLKVHAVKPI TEETGA AKIPAGEQQI IDKIDAAFKVA
ATAANAAPANDKFTVFEEAFNNAIKESTGGAYD TYKSIP SLEAAVKQAYAATIAAAPEVK
FAVFKAALTKAITAMAEVQKVS KPVAGAATAAAGAATAATGAATGAAGAATGAATVSAGG
YKV

>accession|AAG42255.1|Allergen pollen allergen Hol 1 5b [Holcus
lanatus]
MAVQKYTVALFLTVALVAGPAASYAADAGYAPTPAAAGAAAGKITPTQEQLMEDINVG
FKA AVAAAAGAPPADKFKTFQAAFSASVEASA AKLNAAQAPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAAFTEALRVIAGVLKVHAVKPI TE EIGA AKIPAGELQI IDKIDAAFKVA
ATAANAAPANDKFTVFEEAFNNAIKESTGGAYD TYKSIP SLEAAVKQAYAATIAAAPEVK
FAVFKAALTKAITAMAEVQKVS KPVAGAATAAAGAATAATGAATGAAGAATGAATVSAGGYKV

>accession|AAG42802.1|Allergen lipophilin AL [Oryctolagus
cuniculus]
MKLLVPLLLVALALGCYEADAAACPAFVLDSVGF LFDPKPVYRQKLAKYDAPPEAVEAKL
QVKECTDEIDKGKRVLIAAVLTKIVKECAL

>accession|AAG42806.1|Allergen lipophilin CL2 [Oryctolagus
cuniculus]
MKVVMVLLLAALPLYCYAGSGCVLLESVVEKTIDPSVSVVEEYKADLQRFIDTEQTEAAVE
EFKECFLSQSNETLANFRVMVHTIYDSLYCAAY

>accession|AAG44478.1|Putative vacuolar serine protease
[Penicillium oxalicum]
MKGLLSLTLPLLAASPTWSETIHNGAAP LISSTSAKEIPDSYIVVFKKHVGASAASAH
HSWVQDIHSDNVRMELKKRSLFGFESEPYLGVKHTFHVAGSLMGYAGHFHEDVIEQVRRH
PDVEYIEKDSEVHHFEDPAIEKNAPWGLARISHRDSLSFGS FNKYLYAEDGGEGV DAYVI
DTGTNVDHVD FEGRASWGKTIPQGDQVDGNGHGTHCSGTIAGKKYGVAKKANVYAVKVL
RSNGSGTMSDVVKGV EWAEEAHIKKSKAAKD GKAKGFKGSVANMSLGGGSSRTLDLAVNA
AVDAGMHFAVAAGNDNADACNYS PAAAEKAVTVGASTLADERAYFSNYGKCTDIFAPGLN
ILSTWIGSKYAVNTISGTS MASP HIAGLLAYYVSLQPASDSAYAVEEITPKKLKDALITI
ATSGALSDIPSDTPNLLAWNGGGSSNYTEIVSKGGYKAGASESMKKHLDELVGKVEEVIA
KEQKVLSELGAIYSEIKDAVSA

>accession|AAG44480.1|Putative vacuolar serine protease
[Penicillium citrinum]
DSPSVEKNAPWGLARISHRDSLSFGTFNKYLYAEDGGEGV DAYVIDTGTNTDHDVDFEGRA
NWGKTIP EGDEDVDGNGHGTHCSGTIAGKKYGVAKKANVYAVKVLRSNGSGTMSDVVKGV
EWAEEAHIKKAKAGKKGFKGSVANMSLGGGSSRTLDLAVNA AVDAGIHFVAAGNDNADA
CNYS PAAAE NAVTVGASTLADERAYFSNYGKCTDIFAPGLNILSTWIGSKYAVNTISGTS
MASPHIAGLLAYYVSLQP SDDSAFAVEKITPKKLKEALITVATSGALTDIPSDTPNLLAW

NGGSSNYTDIVAQGGYKAGSTVEDFEEHKLNVNHAEEVMHKELGAIYSEIKDAVAV

>accession|BAB21489.1|Allergen Bet vI jap1 [Betula platyphylla]
MGVFNTEETSVIPAAARLFKAFILDGDKLVKVPAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>accession|BAB21490.1|Allergen Bet vI jap2 [Betula platyphylla]
MGVFNTEETSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDGVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>accession|BAB21491.1|Allergen Bet vI jap3 [Betula platyphylla]
MGVFNTEETSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFEYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>accession|AAK01235.1|Putative minor allergen hazelnut profilin
[Corylus avellana]
MSWQTYGDEHLMCEIEGNRLAAAAIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYVMVIQGEPEGAVIRRRKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLDQGL

>accession|AAK01236.1|Putative minor allergen hazelnut profilin
[Corylus avellana]
MSWQAYGDEHLMCEIEGNRLAAAAIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYVMVIQGEPEGAVIRGKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLDQGL

>accession|AAK09361.1|Allergen phospholipase A-2 precursor,
partial [Apis cerana cerana]
IIYPGTLWCGHNVSSGPNELGRFKHTDACCRTHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGDKISSYFVGKMYFNLDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKAYQWFDLRKY

>accession|AAD55792.2|Putative male-specific submandibular
protein MSP precursor [Mesocricetus auratus]
MVKFLLLALALGVSCAQHQNLEVSPSEVDGKWHSLYIAADNKSKVSEGGPLRVYVKHLEC
SDECQFTTIKFYTKVENVCQEHRRVGRKGDGKYITDFSGQNYFHVVEKADDTMTFHNVN
VDDSGKTNVILVVGKGESSIEQKQRFEKTAEKYDIPKENIEHLVTTDTCNQ

>accession|AAK15087.1|Putative 11S globulin [Sesamum indicum]
MALTSLLSFFIVVTLIRGLSAQLAGEQDFYWQDLQSQQHKLQARTDCRVERLTAQEPT
IRFESEAGLTEFWDRNNQFECAGVAARNVVIQPRGLLLPHYNNAPQLLYVVRGRGIQGT
VIPGCAETFERDTQPRQDRRRRFMDRHQKVRQFRQGDILALPAGLTLWFYNNNGEPLITV
ALLDTGNAANQLDQTFRHFFLAGNPQGGRSYFGRPQTEKQQGETKNI FNGFDDEILADA
FGVDVQTARRLKGQDDLGRIVRAERLDIVLPGEERWERDPYSGANGLEETLCTAKL
RENLDEPARADVYNPHGGRISSLNLTLPVLSWLRLSAEKGVLYRNLVAPHWNLNAHSI
IYITRGSGRFQVVGHTGRSVFDGVVREGQLIIVPQNYVAKRASQDEGLEWISFKTNDNA
MTSQLAGRLSAIRAMPPEEVMTAYQVSRDEARRLKYNREESRVFSSTSRYSWPRSSRPM
YMPKPFYVLDVIKSM

>accession|AAK15088.1|Putative 2S albumin [Sesamum indicum]
MAKKLALAAVLLVAMVALASATYTTTTVTTTAIDDEANQQSQCRQQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQSLRDCCQQLRNVDERCRCCEAIRQAVRQQQEGGY

QEGQSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>accession|AAK15089.1|Putative 7S globulin [Sesamum indicum]
MSCGGRCLCLVLFALLLASAVVASESKDPELQCKHQCKAQQQISKEQKEACIQACKEYIR
QKHQGEHGRGGGDILEEEVWNRKSPIERLRECSRGEQQHGEQREECLRRCQEEYQREKG
RQDDDNPTDPEKQYQQCRLQCRRQGEQGGGFSREHCERRREEKYREQQGREGGRGEMYEGR
EREEEQEEQGRGRIPYVFEDQHFITGFRTQHGRMRVLQKFTDRSELLRGIENYRVAILEA
EPQTFIVPNHWDAESVVFVAKGRGTISLVRQDRRESLNIKQGDILKINAGTTAYLINRDN
NERLVLAKLLQPVSTPGEFELFFGAGGENPESFFKFSFDEILEAAFNTRRDLRQIFGQQ
RQGVIVKASEEQVRAMSRHEEGGIWPFGGESKGTINIYQQRPHSNQYQQLHEVDASQYR
QLRDLDLTVSLANITQGAMTAPHYNSKATKIALVVDGEGYFEMACPHMSRSRGSYQGETR
GRPSYQRVASRLTRGTVVIIPAGHPFVAVASSNQNQLQVLCFEVNANNNEKFLAGRRNV
NQLEREAKELAFGMPAREVEEVSRSQQEEFFFKGPRQQQGRADA

>accession|AAB32652.2|Allergen main olive allergen [Olea
europaea]
QVYCDTCRAGFITELSEFIPGASVRLQCKEKNNGDITFTEVGYTRAEGLYSMLVERDHKN
EFCEITLISSGSKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQVY
NKLGMYPNNM

>accession|AAK25823.1|Allergen group V allergen Phl p 5 precursor
[Phleum pratense]
PISVTAPPPQLPRPPATPPPPPPQLGASPYKLGPSPKARSERPAIVPPADKYRTFVATF
GAASNKAFAEGLSGEPKGGAESSSKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLS
EALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFE
AAFNNAIKAGTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSE
AQKAAKPAAAATATATS AVGAPTGATTAAAGGYKV

>accession|AAK28533.1|Putative lipid transfer protein precursor
[Corylus avellana]
MGSLKLVCAVLLCMMVAAPVARASLTCPQIKGNLTPCVLYLKNGGVLPPSCCKGVRAVND
ASRTTSDRQSACNCLKDTAKGIAGLNP NLAAGLPGKCGVNIPYKISPSTNCNNVK

>accession|AAK39511.1|Allergen paramyosin-like allergen
[Dermatophagoides farinae]
MNKKRDELAKLRKLLLEDVHIESEETAHHLRQKHQAIIQEMQDQLDQLQKAKNKSDKEKQ
KFQAEVFEELLAQLETANKEKLTALKNVEKLEYTVHELNKIEEINRTVIELTSHKQRLSQ
ENTELIKEVHEVKLQLDNANHLKTQIAQQLEDTRHRLEEEERKRASLENHAHTLEVELES
LKVQLDEESEARLELERQLTKANGDAASWKSKEYEAELOAHADVEEELRRKMAQKISEYEE
QLEALLNKSSLEKQKSRLQSEVEVLIMDLEKATRHAQQLEKRVAQLEKINLDLKNKLEE
VTMLMEQAQKELRVKIAELQKLOHEYEKLRDQDQLARENKKTDDLAEAKSQLNDAHRR
IHEQEIEIKRLENERDELSAAYKEAETLRKQEEAKNQRLLIAELAQVRHDYEKRLAQKDEE
IEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLKKKYQAQITELELSLDAANKANIDLQK
TIKKQALQITELQAHYDEVHRQLQQAQVDQLGVTQRRQCALQAELEEMRIALEQANRAKRQ
AEQLHEEAVVRVNELTTINVNLSAKSKLESEFSALQADYDEVHKELRISDERVQKLTIE
LKSTKDLLIEEQERLVKLETVKKSLQEVRTLHVRIEEVEANALAGGKRVI AKLESIRID
VEIEVEEERRRHAETDKMLRKKDHRVKELLQ

>accession|AAK49451.1|Putative enolase [Aspergillus fumigatus]
MPISKIHARSVYDSRGNPTVEVDVATETGLHRAIVPSGASTGQHEAHEL RDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKL DGTANKSNLGANAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVFPQNVLNGGSHAGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYQSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAI ELKSCNALLLKV NQIGTLTESIQ

AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPCRSERLAKLNQILRIEE
LGENTVYAGSKFR TAVNL

>accession|AAK51201.1|Putative enolase [Penicillium citrinum]
MPIAKVHARSVYVSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAVELRDGDKAKWGGK
GVLKAVKNVNETIGPALIKENIDVKDQAKVDEFLNKLDGTANKGNLGNAILGVSLAIK
AAAAEKGVPLYVHISDLAGTKKPYVLPVPFQNVNLNGGSHAGGRLAFQEFMIVPDTAESFS
EGLRQGAEVYQKLKALAKKYGQSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
ISIAMDVASSEFYKTDKDYDLDFKNPDSPTKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPLRIKKAIELKSCNALLKVNQIGTLTESIQA
AKDSYADNWGVMVSHRSGETEDVTIADIAVGLRSGQIKTGAPARSRERLAKLNQILRIEE
LGENAIYAGKNFR TSVNL

>accession|AAK54834.1|Putative profilin [Musa acuminata]
MSWQAYVDDHLLCDIDGQCLTAAAVGHGDSVWAQSDAFPPQCKPEEIAAIMKDFDEPGSL
APTGLYLGGTKYMVIIQGEPEGAVIRGKKGSGGVTIKKTNLALIIGIYNEPMTPGQCNMVE
RLGDYLF DQGF

>accession|AAK56124.1|Putative beta-expansin 1 [Zea mays]
MGSLVNNIMVVGAVLAALVAGGSCGPPKVPVPGPNITTNYNGKWL TARATWYGQPNGAGAP
DNGGACGIKNVNLPPYSGMTACGNVPIFKDGKGCSCYEVRCKEKPECSGNPVTVYITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKIRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYLAVLVKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPF SIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>accession|AAG44693.2|Putative vacuolar serine protease
[Penicillium chrysogenum]
MKGFLSLTLLPLLVAASPVAVNSIHNDAAPISSMTSKDIPDSYIVVFKKHVDPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGFDFAFMGLKHTFHIAAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFKYLYAEEGGEGVDAYV
IDTGANVKHVDVEGRANWGKTIPQGDADDEDNGHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGEVWAAEAHIKSKKGDKKFKGSVANMSLGGGSSRTL DLAVNAVD
AGIHFAVAAGNDNADACNYSAAA EKAITVGASTLADERAYFSNYGKCTDIFAPGLNILS
TWVGS DHATNTISGTSMASPHIAGLLAYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGGIIDSAEKAFHKE
LGAIYSEIKDAVSA

>accession|AAK58415.1|Putative cysteine protease precursor
[Blomia tropicalis]
IPANFDWRQKTHVNP I RNQGGCGSCWFAASSVAETLYAIHRHQNIILSEQELLDCTYHL
YDPTYKCHGCQSGMSPEAFKYMKQKGLLEESHYPYKMKLNQCQANARGTRYHVSSYNSLR
YRAGDQEIQAAIMNHGPVVIYIHGTEAHFRNLRKGI LRGAGYNDAQIDHAVVLVWGWTQN
GIDYWIVRTSWGTQWGDAGYGFVERHHNSLGINNYPIYASL

>accession|AAK58515.1|Allergen beta-1,3-glucanase-like protein
[Olea europaea]
MAANVQTSSLLFLVFLLLQNFYSANSQSFLGVNYGQLSDNLP SLQATVNLLKSTTIQKVR
LFGAEP AVIKAFANTGVEIVIGFDNGDIPTLASNP NVASQFVKSNVMSFY PASNIIAITV
GNEVLTSGDQKLISQLLPAMQNVQNALNAASLGGKVKVSTVHAMAVLSQSYPPSSGVFNP
GLGDTMKALLQFQSANDAPFMISPYFYFAYKNQPTPDTLAFCLFQPNAGQVDSGNGHKYT
NMFDAQVDAVHSALNAMGFKDIEIVVAETGWPHGGDSNEVGPSLDNAKAYVGNLINHLKS
KVGTP LMPGKSIDTYLFSLYDEDKKTGASSEKYFGLFKPDGSTTYDVGLLKNTQNPTTPA
TPTPTPKAAGSWCVKPGVSDDQLTGNINYACGQIDCGPIQPGGACFEPNTVKAHAAYV
MNLYYQSAGRNSWNCDFSQTATLTNTNPSYGACNFP SSGSN

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

>accession|CAC41633.1|Putative plantain pollen major allergen, Pla 1 1.0101 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQQVQLDCKDDSKKVIYSIGGETDQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>accession|CAC41634.1|Putative plantain pollen major allergen, Pla 1 1.0102 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>accession|CAC41635.1|Putative plantain pollen major allergen, Pla 1 1.0103 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>accession|AAK62278.1|Putative group 5 allergen precursor [Dactylis glomerata]
MAVQKYTVLFLAVVLVAGPVASVYAADAGYTPAAAATPATAGGKAMTEEQTLIEDVNAGF
KAAVAAASSAPPADKFKTFEATFTAACKANIAAAATKVPLFVAKLDAAYAVAYKTATGPT
PEAKYDAFVAALTEALRVIAGALEVHAVKPAEEVPAAKIPAGELQIVDKIDAAYKIAAT
AANAAPANDKFTVFEGAFNKAIKESTGGAYESYKFIPTLEAAVKQAYAATVAAAPEVKYA
VFEEALTKAITAMSEAQKVATPAAVATGAATAAASAATGAATAAAGGYKV

>accession|P92918.1|Allergen Major allergen Api g 2 (Api g 1.0201) [Apium graveolens]
MGVQKTVVEAPSTVSAEKMYQGFLLDMDTVFPKVLPLQLIKSVEILEGGVGTVKLVHLG
EATEYTTMKQKVDVIDKAGLAYTYTTIGGDILVDVLESVVNEFVVVPTDGGCIVKNTTIY
NTKGDAVLPEDKIKEATEKSALAFKAVEAYLLANLQFLA

>accession|Q9HDT3.2|Putative Enolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Major allergen Alt a 11) (Alt a XI) [Alternaria alternata]
MTITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWGGK
GVTKAVANVNDTIAPALIKEKLDVKDQSAVDAFLNKLDGTTNKTNLGANAILGVSMIAIAK
AAAAEKGVPLYAHISDLAGTKKPYVLPVPPFQNVLNGGSHAGGRLAFQEFMIVPCEAPTF
EAMRQGAQVYQKLKALAKKTYGQSAGNVGDEGGVAPDIQTAEALDLITKAIIEEAGYTGK
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWLTYEQLAEMYKSLAEKYPVIVSIEDPF
AEDDWEAWSYFFKTYDQIVGDDLTVTNPEFIKKAIELKSCNALLLKVNQIGTITEAIQA
AKDAFGAGWGMVSHRSGETEDVTIADIVVGLRSGQIKTGAPARSERLAKLNQILRIIEE
LGDNAVYAGNNFRNAVNL

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

SLAVCKAGAHVKGIPLYKHVANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYGDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDKTYDLNFKKEENNGSQKISGDVLKDLYKSFVTEYPIVSI
EDPFDQDDWEHYAKLTSEIGVKVQIVGDDLLVTNPKRVEKAIKEKACNALLLKVNQIGSV
TESIEAVKMSKRAGWVMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIEELGAEAVYAGANFRTPVEPY

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

>accession|Q92260.1|Putative Heat shock 70 kDa protein (Allergen
Pen c 19) [*Penicillium citrinum*]
AYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNVLRINEPTAAAIAYGLDKKTEGE
RNVLIFDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHVNEFKRKHKKD
LTTNARALRRLRTACERAKRTLSSAAQTSIEIDSLFEGIDFYTSITRARFEELCQDLFRG
TMEPVERVLRDAKIDKSSVHEIVLVGGSTRIPKIQKLVSDFFNKDANKSINPDEAVAYGA
AVQAAILSGDTSKSTNEILLLDVAPLSLGIETAGGVMTPLIKRNTTIPTKKSETFSTYS
DNQPGVLIQVFEGERARTKDNLLGKFELTGIPPAPRGVQPQIEVTFDL DANGIMNVSASE
KGTGKSNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEASRIQAKNGLESYAYSLKNT
ITEGKLQMSDDDKKIEDKISEIISWLDNNQTAEKDEYESQQKELEAIANPIMQAAYGAA
GGAPPQQRADGETEKKDEEELD

>accession|Q9M5X7.1|Allergen Non-specific lipid-transfer protein
precursor (LTP) (Allergen Mal d 3) [*Malus x domestica*]
MASSAVTKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRSRGAVPPACCNGIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNPYKISTSTNCATVK

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

>accession|P58171.1|Putative Polcalcine Syr v 3 (Calcium-binding
pollen allergen Syr v 3) [*Syringa vulgaris*]
MAEEVAELERIFKRFDANGDGKISSSELGETLKTLSVTPPEEIQRMMAEIDTDGDGFISF
EEFKDFARANSGLIKDVAKIF

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

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

>accession|O65200.1|Allergen Major allergen Pyr c 1 [*Pyrus*

communis]

MGLYTFENEFTSEIPPPRLFKAFVLDADNLIPKIAQAIKHAEILEGNGGPGTIKKITFG
EGSQYGYVKHRVDSIDEASYSYAYTLIEGDALTDTIEKISYEAKLVASGSGSTIKSISHY
HTKGDIEIKEEHVKAGKEKAHGLFKLIESYLKDHDPDAYN

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

MDAIKKKMQAMKIEKDNALDRADAAEEKVVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSTANSNLEEKQVQEAEEVAALNRRMTLLEEEELERAEERLKLATAKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQLKEAQM LAEEADRKYDEVARKLTMVEADLERAE
ERAETGENKIVELEEEELRVVGNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLEDELVHEKERYKSISEELDQTFQELSGY

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

EDIPQPPVSVQFHIQGVYCDTCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTR
AEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFKLNTVNGTTRTVNPL
GFFKKEALPKCAQVYNKLGMYPPNM

>accession|AAK63086.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILADADCAA AVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKFLQVFKAGARALTAETKAFKAGDSDGDGAIGVDEWAVLVKA

>accession|AAK63087.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSPADIKKVFEEIIDQDKSDFVE
EDELKFLQNFSA SARALSDAETKVFLKAGDSDGDGKIGVDEFGAMIKA

>accession|AAK63088.1|Allergen parvalbumin [Theragra
chalcogramma]

MSFAGVLADADVKAALAGCAAADSFNYKTFKACGLAAKSHEEVKKAFFVIDQDQSGFIE
EDELKFLQTFGAGARELTAAETKAFLAAGDEDGDMIGVDEFVTLVKA

>accession|AAK63089.1|Allergen parvalbumin [Theragra
chalcogramma]

MAFAGILKDAEVAAALEACKSAGSFDHTKFFKSCGLAGKSSDDVKKAFGIIDQDQSDFIE
EEELKFLQNFSA SARALSDAETKAFLKAGDSDGDGKIGVDEFAAMVKA

>accession|CAC42881.1|Putative putative class I chitinase [Hevea
brasiliensis]

EQCGRQAGGALCPGGLCCSQYGCANTPEYCGSGCQSQC DGGGGGEDGGIDLGSII SRST
FEEMLKHRNDAACPAKGFYTYDAFISA AKAFPAFGTTGDVDTCKREIAAFFGQTSHTTG
GWPTAPDGPYAWGYCYKEELNQASSYCSPPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNPNPDLVATDRVISFKAAIWFWMTPQFPKPSCHDVITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGRGWDARVEDRIGFYKRYCDMFAVGYSNLDCYNQTPFGLG

>accession|AAK67491.1|Putative enolase [Curvularia lunata]

MAITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKTKWGGK
GVTKAVANVNDIIAPALIKEKLDVKDQSAVD AFLNKLDGTENKTKLGANAILGVSMIAIAK
AAAAEKGVPLYAHISDLAGTKKPYVFRFLSKNVLNGGSHAGGFLLFQEFMIAPAKTFAEA
LRIRQGAEVYQKLKALTKKTYGQSAGNYGDEGGVAPDIQTAEFALDLIVDAIEAAGHTGQ
IKIAMDVASSEFFKDEKDYDLDFKNPDSKSKWLTYPQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSHFYKDGDFQIVGDDLTVTNPEFIKTAIELKSCNALLKVNQIGTISEAINA
AKDAFGAGWGMVSHRSGETEDVTIADIVVGLRSGQIKTNAPARSERLAKYNQILRIEE
LGDKRLFAGNKFHTAINLYL

>accession|AAK67492.1|Allergen cytochrome c [Curvularia lunata]
MGFEQGDAAKKGANLFRCAQCHTLKAGEGNKIGPELHGLFGRKTGSVAGYSYTDANKQK
GIEWNHDTLFEYLENPKKYIPGTKMAFGGLKKPKDRNDLITFLEQETK

>accession|AAG02250.1|Allergen ferritin heavy chain-like protein
[Dermatophagoides pteronyssinus]
MAANPESTTKTSRVRMNFHKECEAGINKQINLELYASYVYQQMAFHFNREDVALPGFEKF
FHESSEEEEREHAEKLMKLQNRGGRIVLQDIPKPVQQDWSSGLEALKASLELEKTVNQSL
LDLHDLATKHNDQAQFADFIESNYLHEQVEAIKKLADYITNLERCGSVGLGEYLFDRHTLQ

>accession|CAC48400.1|Putative putative allergen jun o 1
[Juniperus oxycedrus]
MASPCLRAVLVFLCAIVSCYSDNPIDSCWRGDSNWGQNRMKLADCVVGFSGSTMGGKGG
FYTVTSAEDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCVTSVLGDVLSVSESIGVEPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMLLGHDDTYDNDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYPWNIYAIGGSSNPTILSEGNSTAPSESYKKEV
TKRIGCESTSACANVWVRSTRDAFTNGAYFVSSGKIEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

>accession|AAK96255.1|Allergen acidic allergen Cyn d 1 precursor
[Cynodon dactylon]
AMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGACGYKDVKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGGSPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFLLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHVEQDDVIPEDWKPDTVYKS
KIQF

>accession|AAK96887.1|Allergen allergen II [Arachis hypogaea]
MAKLTILVALALFLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQKIQRDEDSY
ERDPYSPSQDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRRCMCEALQQIMENQSDRL
QGRQQEQQFKRELRNLPQQCGLRAPQRCDLDVESGG

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

>accession|AAK13029.1|Allergen ribonuclease-like PR-10c [Malus
domestica]
MGVCTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDESYSYSYTLIEGDALTDTIEKISYETKLVAAGSGSSTIKSISHY
HTKGNIEIKEEHVKGKEKAHGLFKLIESYLKDHDPDAYN

>accession|AAK13030.1|Allergen ribonuclease-like PR-10a [Malus
domestica]
MGVYTFENEYTSSEIPPPRLFKAFVLDADNLIPKIAPQAIKHAIEILEGDGGPGTTKITFG
EGSQYGYVKHKIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVAAGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHDPDAYN

>accession|AAK96889.1|Putative tropomyosin [Crassostrea gigas]
NSARGFDTVNEKYQECQTKMEEAEKTASEAEQEIQSLNRRIQLEEDMERSEERLQTATE
KLEEASKAADESERNRNVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAI
TEVDLERAEARLEAAEAKVLELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQR

LKDAENRATEAERTVSKLQKEVDRLEDELLAEKERYKAISDELDQTFFAELAGY

>accession|BAB64303.1|Putative beta-conglycinin alpha prime subunit [Glycine max]

MMRARFPLLLLVVFLASVSVSFGIAYWEKQNP SHNKCLRSCNSEKDSYRNQACHARCNL
LKVEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPFPRPRQPRQEGEHEQK
EEHEWHRKEEKHGKGESEEEQDGREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEEED
QDEDEEQDKESQESQESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKR
QQQLQNLRDYRILEFN SKPNTLLLP HHADADYLIVILNGTAILTLVNDDRDSYNLQSGDA
LRVPAGTTYVVPDNDENLRMITLAI PVNKPGRFESFFLSSTQAQQSYLQGF SKNILEA
SYDTKFEEINKVLF GREEGQQQGEERLQESVIVEISKKQIRELSKRAKSSSRKTISSEDK
PFNLRSRDP IYSNKLGLFEITPEKNPQLRDLDFLSVDMNEGALFLPHFN SKAIVLV
INEGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLN
FAFGINAENNQRNFLAGSKDNVISQIP SQVQELAF LGS AKDIENLIK SQSES YFVDAQPQ
QKEEGNKGRKGPLSSILRAF Y

>accession|BAB64306.1|Putative beta-conglycinin beta-subunit [Glycine max]

MMRVRFPLLVLLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNGRIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLFVLSGRAILTLVNDDRDSYNLHP
GDAQRIPAGTTYLVNPHDHQNLKIIKLAIPVNKPSRYDDFFLSSTQAQQSYLQGF SHNI
LETSFHSEFEEINRVLFGESEEEQRQQEGVIVELSKQIRQLSRRAKSSSRKTISSEDEPF
NLRSRNPIYSNFGKFFEITPEKNPQPRDLDFLSSVDINEGALLLPHFN SKAIVILVIN
EGDANIELVGIKEQQQKQKQEEEPLEVRKYRAELSEDDVFVIPAAYPFVVVNATSNLFLA
FGINAENNQRNFLAGSKDNVVRQIERQVQELAFPGSAQDVERLLKQRESYFVDAQPQQK
EEGSKGRKGPFP SILGAL Y

>accession|AAF07903.2|Putative procalin [Triatoma protracta]
MKTFIVITFIGILSYAYAD ECENPEPMQGF SASQFYQGXWYVTHE TSAXTLSECNILTTS
NDNGKFTVKHKYTKDGXV GELICEGQASANNKFTYDCKFXGZTMEQVTRTAMDTDYNDYA
LYYLCTTYKXGPNAGKKEGHYILSRRQP NTEIPDALKT KTKDLNLKLCG

>accession|AAL07320.1|Putative profilin [Litchi chinensis]
MSWQTYVDDHLMCETDGQHLTAAAIIGHDGSVWAQSANFPQFKPAEIAAIMKDFDEPGSL
APTGLHLGGTKYMIQGEPEGAVIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVE
RLGDYLV DQGL

>accession|1JTI_A|Allergen Chain A, Loop-Inserted Structure Of P1-P1' Cleaved Ovalbumin Mutant R339t [Gallus gallus]

GSIGAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRFD
KLPFGDSIEAQCGTSVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPILPEYLQC
VKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSSVDSQTAMVLVNAIVF
KGLWEKTFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILEL PFASGTMS
MLVLLPDEVSGLEQLESII NFEKLT EWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMAM
GITDVFSSANLSGISSAESLKISQAVHAAHAEINEAGTEVVGS AEAAGVDAASVSEEFRA
DHPFLFCIKHIATNAVLFFGR CVSP

>accession|CAC85911.1|Allergen arginine kinase [Plodia interpunctella]

MVDAATLEKLEAGFSKLAASDSKSLK KYLTREVF DALKNKKT SFGSTLLDSIQSGVENL
HSGVGIYAPDAEAYVVFADLFDPIIEDYHNGFKKTDKHPKNWGDVETLGNLDPAGEFVV
STRVRCGRSMEGYPFN PCLTEAQYKEME EKVSSTLSGLEGELKGTFFPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPSGRGIYHNENKTF LVCN EEDHLRLISMQMGDLKQ
VYKRLVRGVNDIAKRIPFSHNERLGLTFCPTNLGTTVRASVHIKLPKLAADKAKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKR RMGLTEYEAVKEMYD GIAELIKIEKSL

>accession|AAL14077.1|Allergen acidic Cyn d 1 isoallergen isoform 2 precursor [Cynodon dactylon]
MLAVVAVVFLASMVGALCAMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDGMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>accession|AAL14078.1|Allergen acidic Cyn d 1 isoallergen isoform 3 precursor [Cynodon dactylon]
MLAAVAVVFLASMVGAWCAMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDGMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKITFHVEKGSNPNYLA
LLVKYAAGDGNIVGVDIKPKGSDVFLPMKLSWGAIWRMDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>accession|AAL14079.1|Allergen acidic Cyn d 1 isoallergen isoform 4 precursor [Cynodon dactylon]
MLAVVAVVFLASMVGALCAMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDSMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>accession|CAD10374.1|Putative ypr10 [Castanea sativa]
MGVFTHENEITSAIPPGRLFKAFVLDADNLIPKLAPHAIKSAEIEGNGGPGTIKKITFG
EGSQFKYVKHRIDEIDQANFTYCYSVIEGDVVNELLEKISYEIKIVASPDGGSILKNTSK
YHTKGEQEIKEEKVMAGKEKAAGLFKAVEAYLLAHSDAYN

>accession|CAD10376.1|Putative profilin [Capsicum annuum]
MSWQTYVDDHLMCEIEGNRLTSAAIIGQDGSVWAQSATFPQFKPEEITAIMNDFAEPTGL
APTGLYLGGTKYMVIQGEAGAVIRGKKGPGGITVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIEQSL

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

>accession|BAB71741.1|Putative glyoxalase I [Oryza sativa (japonica cultivar-group)]
MASGSEAEKSPEVVLEWPKKDKKRVLHAVYRVGDLDRTIKCYTECFGMKLLRKRDPVEEK
YTNAFLGFGPEDTNFALELTYNYGVVDKYDIGAGFGHFIAIATEDVYKLAEKIKSSCCKIT
REPGPVKGGSTVIAFAQDPDGYMFEIQRGPTPEPLCQVMLRVGDLDRSIKIFYEKALGMK
LLRKKDVPDYKYTIAMLYADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGKILRQGPPLPGLNTKIASFLDPDGWKVVLVDNADFLKELQ

>accession|CAC34055.2|Putative osmotin-like protein [Capsicum annuum]
MGYLRSSFVFLFLAFVITYYAATFEVRNNCPYTVWAASTPVGGGRRLLDRGQTTINAPPG
TAMARIWGRNTCNFDGSGRGSQGTGDCGGVLQCTGWGKPPNTLAEYALNQFNNDLFDWDIS
LVDGFNIPMTFAPTNPSSGKCHAIQCTANINGECPGSLRVPGGCNPCTTFGGQQYCCCTQ
GPCGPTELSKFFKKRCPDAYSYPQDDATSTFTCPSGSTNYRVVFCPNGVTGPNFPLEMPG

SDGVAK

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

>accession|AAL37561.1|Allergen conglutin [Arachis hypogaea]
AKSTILVALLALVLAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQEQ
YDSYDIRSTRSSDQQQRCCDELDQMENTERCMCEALQQIMENQCDRLQDRQMVQQFKREL
MNLPPQCNFRAPQRCDLDVSGGRC

>accession|BAB79444.1|Putative BW8KD allergen protein Fagopyrum
esculentum]
MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTMDDDDSMRGREC
RSEESCMRGCCLAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMQLPNKCGMGH
MRCHMGIGTRDYE

>accession|CAC81811.1|Putative putative chitinase [Musa
acuminata]
MKALLLVIFTLASSLGAFAEQCGRQAGGALCPGGLCCSQYGWCGNTDPYCGQGCQSQCGG
SGGSGGGSVASIISSSLFEQMLKHRNDAACPGKGFYTYNAFIAAANSFSGFGTTGDDAKK
KREIAAFLAQTSHETTGGWATAPDGPYAWGYCFVQEQNPSSDYCVASSQWPCAAGKKYYG
RGPIQISFNINYGPAGRAIGSDLLNPNDLVATDATISFKTALWFWMTTPQSPKPSCHDVIT
GSWTPSNADQAAGRLPGYGVTTNIINGGLECGKGYDARVADRIGFYKRYCDLLGVSYGDN
LDCYNQRPFATAATATF

>accession|AAL49391.1|Putative cystatin [Felis catus]
MIPGGLSEAKPATPEIQEIANEVKPKLEEKTNETYQKFEAIEYKTQVVAGINYIYIKVQVD
DNRYIHIKVFVKGLPVQDSSLTLTGYYQTGKSEDELDTGF

>accession|CAC83658.1|Allergen parvalbumin [Cyprinus carpio]
MAFAGILNDADITAALQGCQAADSFYKSFPAKVGLSAKTPDDIKKAFVIDQDKSGFIE
EDELKFLQNFSAGARALTDAAETKAFKAGDSDGDGKIGVDEFAALVKA

>accession|CAC83659.1|Allergen parvalbumin [Cyprinus carpio]
MAFAGVLNDADITAALAEACKAADSFNHTFFAKVGLTSKSAADDVKKAFAIIDQDKSGFIE
EDELKFLQNFSAGARALTDGETKTFLKAGDSDGDGKIGVDEFTALVKA

>accession|AAL47677.1|Allergen major Der f 2 isoform
[Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCI IHRGKPFITLEALFDANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPESENVVTVKLVGDNGVLACA
IATHAKIRD

>accession|CAD20405.1|Putative group 5 isoallergen [Dactylis
glomerata]
ADAGYTPAAAATPAAAGGKAMTEEQKLIEDVNAGFKA AVAAASSAPPADKFKTFFATFTA
ACKANIAAAATKVPFLVAKLDAAYAVAYKTAAGPTPEAKYDAFVAALTEALRVIAGALEV
HAVKPAAEEVPAKIPAGELQIVDKIDAAYKIAATAANAAPANDKFTVFEGAFNKAIKES
TGGAYESYKFIPTLEAAVKQAYAATVAAPEVKYAVFEAALTKAITAMSEAQKVATPAAA
ATGAATAAASAATGAATAAAGGYKV

>accession|CAD20406.1|Allergen Group 1 allergen-like [Dactylis

glomerata]
MASSSSSVLLVVALFAVFLGSAHGIPKVPVPGPNITATYGDKWLDKSTWYGKPTGAGPKD
NGGACGYKDVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDN
EPIAPYHFDLSGHAFGSMAKKGEEQKLRSALELELQFRRVKCKYPEGTVTFHVEKGSN
PNYLALLVKYVDGDGDVVAVDIKEKKGDKWIALKESWGAIWRVDTDPDKLTGPFTVRYTTE
GGTKSEVEDVIPEGWKADTSYEAK

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

>accession|CAC86258.1|Allergen lipid transfer protein [Fragaria
x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPCCLTYVKSGGAVPAACCSGIRNL
NGMAKTTADRQAACNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>accession|AAL73404.1|Allergen 11S globulin-like protein
[Corylus avellana]
MAKLILVSFSLCLLVLFNGCLGINVGLRRQQQRYFGEENLDRLNALEPTNRIEAEACQIE
SWDHDNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLPFGCPETFED
PQQSQQGQRQGGQSQQRSEQDRHQKIRHFREGDIALPAGVAHWCYNDGDSPPVTVSLL
HTNNYANQLDENPRHFYLAGNPDEHQRQGGQQQFGQRRRQQQSHSHGEQGEQEQGEGNNV
FSGFDAEFLADAFNVVDVTARRLQSNQDKRRNIVKVEGRLQVVRPERSRQEWERQERQER
ESEQERERQRRQGGGRDVGNGFEETICSLRLRENICTRSRADIYTEQVGRINTVNSNTLP
VLRWLQLSAERGLDQREGLYVPHWNLNAHSVYAIRGRARVQVVDNGNTVFDDDELQGGQ
VLTIPQNFVAKRAESEGFVAVFKTNDNAQISPLAGRTSAIRALPDDVLANAFQISREE
ARRLKYNRQETTLVRSRSSSERKRRSESEGRAEA

>accession|AAL75449.1|Putative minor allergen beta-
fructofuranosidase precursor [Solanum lycopersicum (Lycopersicon
esculentum)]
MATQCYDPENSASRYTLLPDQPDPSGHRKSLKIIISGIFLSVFLLLSVAFFPILNNQSPDLQ
IDSRSPAPPSRGVVSQGVSDKTFRDVAGASHVSYAWSNAMLQWRTAYHFQPKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHAVSKDLIHWLYLPPFAMVPDQWYDINGVWTGS
ATILPDGQIIMMLYTGDTDDYVQVQNLAYPANLSDPLLLLDWVKFKGNPVLVPPPGIGVKDF
RDPPTAWTGPQNGQWLLTIGSKIGKTGVALVYETSNTSFKLLDGVLHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWTDPNPELDCGI
GLRLDYGKYYASKTFYDPKKERRVLWGWIGETDSESADLQKGWASVQSIPTVLYDKKTG
THLLQWPVEEIEESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFSCTSSGGAASRGILGPFVIVIADQTLSELTPVYFYISKGADGRAETHFCADQT
RFAFLSGTINLSL

>accession|AAL75450.1|Putative minor allergen beta-
fructofuranosidase precursor [Solanum lycopersicum (Lycopersicon
esculentum)]
MATQCYDPENSASRYTLLPDQPDPSGHRKSLKIIISGIFLSVFLLLSVAFFPILNNQSPDLQ
IDSRSPAPPSRGVVSQGVSDKTFRDVAGASHVSYAWSNAMLQWRTAYHFQPKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHAVSKDLIHWLYLPPFAMVPDQWYDINGVWTGS
ATILPDGQIIMMLYTGDTDDYVQVQNLAYPANLSDPLLLLDWVKFKANPVLVPPPGIGVKDF
RDPITAWTGPQNGQWLLTIGSKIGKTGVALVCETSNTSFKLLDGVLHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWTDPNPELDCGI
GLRLDYGKYYASKTFYDPKRERRVLWGWIGETDSESADLQKGWASVQSIPTVLYDKKTG
THLLQWPVEEIEESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFSCTSSGGAASRGILGPFVIVIADQTLSELTPVYFYISKGADGRAETHFCADQT

RSSEAPGVGKQVYGSSVPVLDGEEKHSMRLLVDHSIVESFAQGGRTVITSRIYPTKAVNGA
ARLFVFNATGASVTASVKIWSLESANIQSFPLQDL

>accession|AAL76932.1|Allergen major allergen isoform Dau c
1.0201 [Daucus carota]
MGVQKTEVEAPSTVSAEKMYQGFLDMDTVFPKVLPLQLIKSVEILEGDDGGVGTVRLVHLG
EATEYTTMKQKVDVIDKAGLGYTYTTIGGDILVEGLESVNVQFVVVPTDGGCIVKNTTIY
NTKGDVLPEDKVKEATEKSALAFKAVEAYLLAN

>accession|AAL76933.1|Allergen minor allergen Dau c 4 profilin
[Daucus carota]
MSWQTYVDDHLMCEVDGNPGQQLSAAAIIGHDGSVWAQSSTFPKFKPEEITGIMKNFDEP
GHLAPTGLYLGGTKYMQGEPPIAVIRGKKGSGGVTIKKTGQALVFGVYDEPVTGQCENL
IVERLGDYLIHQGL

>accession|CAC37790.2|Allergen putative allergen Cup a 1
[Cupressus arizonica]
MASPCLVAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCVVGFGLTMGGKGGE
IYTVTSSDDNPVNPPTPGLTRYGATREKALWIIIFSQNMNIKLOMPLYVAGYKTIDGRGADV
HLGNGGPCLFMRTASHVILHGLHIHGCVTSVLGDVLVSESIGVEPVHAQGDGDAITMRNVT
NAWIDHNSLSDCSDDLIDVTLGSGTITISNNHFFNHKVMMLGHDDTYDDDISMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDQWNIYAIIGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANVWVRFTRDAFTNGAYFVSSGKAETNIYNSNEAFKVENGNAAPQLT
QNAGVVT

>accession|CAA09887.4|Putative allergen [Malassezia sympodialis]
MSNVIKKVFNTDKAEAEESKVVADAPQEAGHKGEGFLHDAKDRLOQGFAGHGHNAQNAASG
VAGSAGAGGAPSVPSANVDVTPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAAGNVQDVQHLAPVTRHVHHRHEIEELLREREHHIHQHHIQHHV
QPVVDSSEHLAEQIHSRVVPQTTVREHVANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGGVLTSTTRSIEEVGLLNLGNNQRTVEGETYTGGLPLSQ

>accession|AAL86701.1|Allergen tropomyosin [Periplaneta
fuliginosa]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAESEARSLOKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEAYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFCDDLDMTFTELIGN

>accession|AAL86739.1|Allergen 48-kDa glycoprotein precursor
[Corylus avellana]
MLPKEDPELKKCKHKCRDERQFDEQQRRDGKQICEEKARERQQEEGNSSEESYGKEQEEEN
PYVFQDEHFESRVKTEEGRVQVLENFTKRSRLLSGIENFRLAILEANPHTFISPAHFDAE
LVLFVAKGRATITMVREEKRESFNVEHGDIIRIPAGTPVYMINRDENEKLFIVKILQPV
APGHFEAFYGGAGGEDPESFYRAFSEVLEAALKVRREQLKVFGEQSKGSIVKASREKIR
ALSQHEEGPPRIWPFGGESSGPINLLHKHPSQSNQFGRLYEAHPDDHKQLQDLDMVSFA
NITKGS MAGPYNSRATKISVVVEGEGFFEMACPHLSSSSGSYQKISARLRRGVVVFVAPA
GHPVAVIASQNNNLQVLCFEVNAHGNSRFPLAGKGNIVNEFERDAKELAFNLPSREVERI
FKNQDQAFFFPGNKQQEEGGRGGRAFE

>accession|AAK27264.1|Putative isoflavone reductase-like protein
CJP-6 [Cryptomeria japonica]
MGGSRVLIIGGTGYIGRHVTNASLAQGHPTFLLVREITPSNPEKAQLLESFTSKGATLVQ

GSIDDHASLVAALKKVDVISTLGAPQIADQFNLIKAIKEVGTIKRFFPSEFGNDVDKHH
AVEPMKSMFDLKIKLRRITIEAEGIPHTYVVPCHCFAGYFLTNLQGLAAPPDRDKIVIYGD
GTTKAVYMKEEDIGTFTIKAVDDPRTLNKTLYLKPPANTISTNDLVALWEAKIGKTLEKV
YLSEEQVLKLLQDTPFPGTFMVSI FHTIYVKGQDQTNFQIGPDGVEASALYPDVKYTTVEE
YISAFV

>accession|AAL79930.1|Allergen 60S acidic ribosomal protein P2
[Fusarium culmorum]
MKHLAAYLLLGLGGNTSPSAADVKAULTSVGIDADEDLNKLISELEGKDIQQLIAEGSE
KLASVPSGGAGGASGGAAAAGGAAEEAKEEEEEKEESEDEDMGFGFLFD

>accession|AAL79931.1|Putative thioredoxin-like protein
[Fusarium culmorum]
MVHHITSNDELQKLLSSTTYVVVDFADWCPPCKAIAPVYEQVSTKHSVPDVLAFKVVN
DHFQDAAQQYGITAMPTFMFFKEGKQVAVNGQAVIKGADPRTLGAEEKLGGLAQKRVAG
A

>accession|BAB88129.1|Allergen pathogenesis-related protein-like
protein 1 [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKGDGGVGTIKHITLPE
GGPVTMTLRDGLDKNCTIDYSYIDGILMGFIEKIENHLSVVPNADGGSTTKTTAIF
HTKGDVAVPEENIKYAEEQNTMLFKAVEAYLIAN

>accession|AAL25839.1|Putative lipid transfer precursor protein
[Hevea brasiliensis]
MAALKMVSFLVLCMLVAAPMTAQAITCGQVQSALVPCLSYLKTTGPTPPATCCNGVRTIN
NAAKTADRRTACQCLKSAAGSVKGLNPTTVAGLPGKCGVNIPIYKISLSTNCATVK

>accession|P20347.3|Allergen Cysteine protease inhibitor 1
precursor (PCPI 8.3) (P340) (P34021) [Solanum tuberosum]
MKSINILSFLLSSTLSLVAFARSFTSENPIVLPTTCHDDDNLVLPVYDQDGNPLRIGE
RYIINNPLLGAAGVYLYNIGNLQCPNAVLQHMSIPQFLGEGTPVVFVRKSESDYGDVVRV
MTVVYIKFFVKTTKLCVDQTVWKVNDEQLVVTGGKVGNEENDIFKIMKTDLVTGGSKYVY
KLLHCPSHLGCKNIGGNFKNGYPRLVTVDDDKDFIPFVFIKA

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

>accession|AAM21322.1|Putative group 14 allergen protein
[Dermatophagoides pteronyssinus]
LLTACLLGLGQAQHCEVACPRSIPQLINPKAQSTYVYSLDAKTVLTTPRDSQKVTIKDAE
VAFVSDCEAVLRLQONVAIDGVPNGAELAAELAAPFAFGYFNGRILGVCPADDDQDWSLN
VKKAIVSSLQALSDGNVEKAEIIDFSGRCPTTEYRKIRSQDDNTVVIKRDNLNLCDDRI
DLRQTPDQALGQKELMRHYMHPMDSDLSCRM TLKDKVVTEVDCEERHVLVHRSNKPVHM
SYVKMMLKQNKDGAADLGPTNAQPKRYPYLSFDHKKNPTE TDVVEVLKCLCSEITEPQA
SIETSFTFQKLVDKLRYLSAEETASVDES VKTSVCPAHARLRELFLDASAFASDGSIR
TLVKAHENQELSITRSTALFTVAAIKAAPNKETVQVLLPVIASEKTIRPMLLGFVSVLRR
YCEKTNDCATNSGVKDARDAYLARLAVARDASERMTIVRALENLNVNTDGVDNMVNAMDE
IIKSTDAEPAMRAAAVNALPNDAHMDRYKSLVMDESMNPNEARIAAFQKMMKNGGMSHIK
DLFAVKGECMKNYVLTYYVDNLKSKNDLRRQTVGEDVELPEKPKREIGITRNIAREYGPY
TFEYDVIYPETHENVTRSINGRLIRSKNDQLKELVEFQVTQSGFDRELNNAMSLLEKKS F

QSVMQFLRDMLKMLSQIRKNADDNHHMKITVQINGKNVYFTDLFQDTKKMKELLMKRVEK
IINDKKVDRSIGGVLLDSKLVLPITITGLPLMYKFGDNLVVRDGEFSGEKGDRNIRMNGG
VVAGLYGKMKLMVKDHKMGYEYDAKASYTPMIDMNVQKQEHSLLVRFNMKDMDQHTVMRF
KQSLREKRATGEEKDYENEITPDARSDRCFSFFLLDYCRKASHIKGLMLPNVEYYVVKPE
KEVTALELMLKSETQDKTRRYIAEMTAVGSPSNKQAKAELEVTKGEQYRVSVKLPHEFN
TEFTINADKNNLKMMDLPNVLQADLTGSFEHDKENNVKRNRLNLQYKFAGDEKPHTVDY
ENEFLFNLKRSSKEKNSAVEYRAKYMSSHFPILNHKVVNVQFKYRPFKVNELNLEGEFGRE
LQHKFRLMRNSQMEVEEVRPFKMHGNSDIKLMANDLDIDYDLKSEFKYESNKGTPIELQY
KVSGKDRSKRAAEMNAEDVEGVIDYKNSGSPIDSKMHAHLKVKGNNYGYDSELKQTEPQQ
YEGKMTLSKNDKKIFITHKTEMTKPTSTFLLKTDADVSYSESDMKKHYYHMEFKKENDIYT
LRSTVERDGLFYENYLTVHKGGKLNLNRYRNRDRKILLDLNALS PREGTMKLNKIDREY
NFVLKRDPMRYRDI TVEGNENAYVKNGKHLHSLIDPSTLSLVTKADGQIDMTVDLISPIT
KRASLKVDSKKYNLFHEGELSASLVNPRLSWHQYTKRDSREYKTDVDLSLRSSDI AVKIT
MPDYNYSKIHYSRQNDQISMDIDGT LIEGHAKGTIKEGKIHIKGRQSDFEIESNYRYEDGK
MLIEPVKSENGKLEGVLSRKVP SHLTLET PRVKMNMQYDRHSPVKMFKLDYDGIHLEKHT
DLLYEPGVQYKII GNGKIKDDGSHYSIDIQ GKPRKAFKLDADMMNFKLVNKPEDSNKAQ
FSYTFNDYTETEEYEFDPHRAYYINWISSIRKYIQNFIVEDH

>accession|CAC84590.2|Allergen tropomyosin [Lepisma saccharina]
MEAIKKKMQAMKLEKDNAMDKADALEAQARDANRKADKILEEVQDLKKKPSQVETDFTTT
KENLATANKNLEDKEKTLTNTSEVASLNRKVQMI EENLERSEERLGTALT KLGEASHAA
DEASRMCKVLENRSQQDEERMDQLTNQLKEARMLAEDADGKSDEVSRKMAQVEDDLEVAE
DRVKSGDSKIMELEEEELKVVGNLSLKSLEVSEEKANQRVEEYKRQIKTLTVKLKEAEARAE
YAEKYVKKLQKEVDRLEDELGINKDRYRALADEMDQTF AELSGY

>accession|CAC84593.2|Allergen tropomyosin [Lepisma saccharina]
MEAIKKKMQAMKLEKDNVDRARQNEQEAKDANLRAEKAE EEARSLQKKIQT IENELDQT
QEQLMQVNAKLEEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATQKLA EASQAA
DESERMCKVLENRSLADEERMDALENQLKEARFLAEEADK KYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQRE EEEYKQQIKTLTTRLKEAEARAC
WLL

>accession|CAC83046.1|Putative parvalbumin alpha [Rana
esculenta]
MPMTDLLAAGDISKAVSFAAPESFNHKKFFELCGLKSKSKEIMQKVFHVLDQDQSGFIE
KEELCLILKGFTPEGRSLSDKETTALLAAGDKDGDGKIGVDEFVTLVSES

>accession|CAC83047.1|Putative parvalbumin alpha [Rana sp.
CH-2001]
MPMTDVLAAACDISKAMAAPFAEPFNHKKFFELCGLKGSQDDMKKVFHMLDKDQSGFIE
KDELALILKGFTPEGRDLSKETTALLAAGDKDGDGKIGVDEFVKLVSEC

>accession|CAC95152.1|Putative parvalbumin beta protein [Rana
esculenta]
MSITDIVSEKDIDAALSVKAAGSFNYKIFFQKVGLAGKSAADAKKVF EILDRDKSGFIE
QDELGLFLQNFARASARVLSDAETSAFLKAGSDGDGKIGVEEFQALVKA

>accession|CAC95153.1|Putative parvalbumin beta protein [Rana
sp. CH-2001]
MSITDIVSEKNIEAAALSVKAEGSFYKCFQKVGLAGKSADDAKKVF EILDRDKSGYIE
KDELCLFLQNFKSSARALNDAETSAFLKAGSDGDGKIGVEEFQALVKA

>accession|AAM33821.1|Allergen alkaline serine protease
[Penicillium chrysogenum]
MGFLKLLSTSLATLAVVNAGKLLTANDGDEVVPSSYIVVMNDGVSTAQFETHRNWAANVH

ARTRSLKGGESGPGKHFNDINGMKGYSASFDDRTVKDIASDPTVKYVEPDMVVNATANVVQ
RNAPSWGLSRISKKSGATDYVYDSTAGEGIVIIYGVDTGIDIGHADFGGRAEWGNTADN
DDTDGNGHGTHTASTAAGSKFGVAKKASVAVKVLGADGSGTNSQVIAGMDWAVKDSKSR
GATGKSVMNMSLGGAYSRAMNDAAANVVRSGVFLSVAAGNEAQDASNSSPASAPNVCTIA
ASTNSDGSASFNTFGSVVDLYAPGKDITAAYPGGSKTSLSGTSMAAPHVAGAAAYLMALE
GVTSDKACARIVELAISSISSAPSGTTSKLLYNGINAQ

>accession|CAD32313.1|Putative Lep D 2 precursor [Lepidoglyphus
destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRGEKMTLEAKFAANQ
DTAKVTIKVLTKVAGTTIQVPGLETDGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAEIIGDHGVMACGTVHGQVE

>accession|CAD32314.1|Putative Lep D 2 precursor [Lepidoglyphus
destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETDGCKVLKCPIKKGEALDFNYGMTIPAITPKIKVDV
TAEIIVGDHGVMACGTIHGQVE

>accession|AAM43909.1|Putative large subunit ribosomal protein L3
[Aspergillus fumigatus]
MSHRKYEAPRHGSLAFLPRKRAARHRGKVKVSFPKYDPKKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWKSKKKAFTKYAKKHAEEENGASITRELERIKKYCTVVRVLAHTQIRKTPLKQKKAHLM
EIQVNGGSVADKVDFAFNLFKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTTKLP
RKTHKGLRVKACIGAWHPSHVQWTVARAGQMGYHHRITSCNHKVFRIKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKNDYIMVKGSPGVKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFTPEEKRAFMTLKKDLVTS

>accession|AAM46958.1|Allergen allergen Arah3/Arah4 [Arachis
hypogaea]
MGKLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR
RHQSQRPPRRFQQDQSQQQDQSHQKVHRFDEGLIAVPTGVAFWYNDHDTDVAVSLT
DTNNDNQLDQFPRRNLGNHEQEFRLYQQQSRRLSPYSPYSPQTQPKQEDREFSPRG
QHGRRERAGQEQENEGGNIFSGFTPEFLAQAFQVDDRQILQNLRGESDEQGAIVTVRG
GLRILSPDRKRRQQYERPEEEEEYDEDEYDEEERQQDRRRRGRSGRSGNGIEETICTA
SFKKNIGRNRSPDIYNPQAGSLKTANELQLNLLILRWLGLSAEYGNLYRNALFVPHYNTN
AHSIIYALRGRAHVQVDSNGDRVFDEELQEGHVLVVPQNFVAVAGKSQSENFYVAFKTD
SRPSIANLAGENSFIDNLPPEVVANSYGLPREQARQLKNNNPFKFFVPPSEQSLRAVA

>accession|CAD10390.1|Putative profilin [Phoenix dactylifera]
MSWQAYVDEHLMCEIDGHHLTAAAILGHDGSVWAQSSSFPQFKSEEITNIMNDFNEPGLS
APTGLYLGSTKYMVIQGEPAVIRGKKGSGGVTVKKTNQALIFGIYEEPMTPGQCNMVVE
RLGDYLIEQGM

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

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

MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEEPKEAEPVAVSEEPKEADD
APAEVAVETKEVVEVEEAKTVTEEPTVEKTEEEEEETPKEETPEPVVKETPKKEEPAETV
VVEAPKETTEAATEAEAPAPESAPASASETPAEEEEVPKEEEGDEKKSEAEVEAEKTE

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

MAAHDKNFDVIPIGHTFFFIWRIKQFELVPVPKEDYGKFKYKGDYIVACCTENPTGGHSK
MESKPILNGHGYCHIHFWIGSESTKDEAGVAAIKSVELDDFLGGYPVQHREIEEFESRQF
SSYFKNGIIYLKGGYESGFTKMIDELKPSLLHVKGKRPVYECAEISWKVMNNGDVFIL
LVPNFVFWWTGKHSNRMERTTAIRVANDLKSELNRFKLSSVILEDGKEVEQTSGAEYDAF
NKALSCLKKIDIDLKQMPKGYDYAASDKSFESHESFVTLTKCFEGTETIDISFVKNGLS
RADLDTNDTFIVENGSEGLWVWVGKATQKERQSAIKYAMELINKKYPNNTPVTKVLEG
DESVEFKSLFESWQMQEQEITSARLFRVSRNGIFKQVANYEPDDLEEDNIMILDVMDKI
YVWIGNQFAERIADEAHVDKVAQRFIQEDKSGRKFQPNQIIKLLKQGSSEDAFKSYFPKWN

>accession|AAM73729.1|Putative vicilin-like protein [Anacardium
occidentale]

PPTKFSFSLFLVSVLVLCLGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVKECEKYYK
EKKGREREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQQKQLCRFRCQER
YKKERGQHNKREDDDEDEDEDAEEDENPYVFEDEDFTTKVKTEQKGVLLPKFTQKSK
LLHALEKYRLAVLVANPQAFVVP SHMDADSIFFVSWGRGTITKILENKRESINVRQGDIV
SISSTPFYIANNDENEKLYLVQFLRPVNLPGHFVVFHGPGENPESFYRAFSWEILEAA
LKTSKDTLEKLFKQDQGTIMKASKEQVRAMSRREGPKIWPFTTEESTGSFKLFKDPQS
SNKYGQLFEAERIDYPPLEKLDMVVSYANITKGGMSVPFYNSRATKIAIVVSGEGCVEIA
CPHLSSSKSSHPYKLRARIRKDTVFI VPAGHPFATVASGNENLEIVCFEVNAEGNIRY
TLAGKKNIIKVMKEKAKELAFKMEGEEVDKVFVGKQDEEFFFGPEWRKEKEGRADE

>accession|CAD32318.1|Allergen major allergen d 1 [Malus x
domestica]

GVYTYENEYETSEIPPPRLFKAFLVDADNLIPIKIAQAIKHAIEILEGDGGPGTIKKITFG
GSQYGYVKHKIDSVDEANYSYAYTLIEGDALTDITIEKVSYETKLVASGSGSIIKSISHYH
TKGDVEIMEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

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

TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHTSAIAVIIGIKDLDAFRHYDGQTI IQEDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

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

TNACSINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHTSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

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

TNACSINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHTSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38364.1|Allergen Cysteine protease-like

[Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQQDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38365.1|Allergen Cysteine protease-like
[Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTI PRGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQQDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38366.1|Allergen Cysteine protease-like protein
product [Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTI PRGIEYIQHNGVVQESYYRYVAEEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38367.1|Allergen Cysteine protease-like protein
product [Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTI PRGIEYIQHNGVVQESYYRYVAQE QSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQEDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38368.1|Allergen Cysteine protease-like
[Dermatophagoides pteronyssinus]
TNAC SINGNAPASIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQE QSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38369.1|Allergen Cysteine protease-like
[Dermatophagoides pteronyssinus]
TNAC SINGNAPASIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTI PQGIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38370.1|Allergen Cysteine protease-like
[Dermatophagoides pteronyssinus]
TNAC SINGNAPASIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQE QSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTHSAIAVIIGIKDLDAFRHYDGQTIIQEDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38371.1|Allergen Cysteine protease-like
[Dermatophagoides pteronyssinus]
TNAC SINGNAPASIDL RQMRTV TPI RMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTI PQGIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGV D YWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

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

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

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

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

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

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

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

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

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

>accession|CAD38382.1|Allergen mite allergen Der f II-like

[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGSEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCPLVNGQQYDIKYTWNVPKIAPNSENVVTVKVLGDNGVLACA
IATHAKIQD

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

>accession|CAD38384.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDIAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38385.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAEESSSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDIAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38386.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDIAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38387.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSEALRKIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDIAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38388.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKTTFEAAFNDIAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38389.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSSKAALTSKLDAAAYKLAYKTAEGATP

EAKYDAYVATVSSALRRIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYKFI PALEAAVKKAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38390.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRRIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38391.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRRIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYNFI PALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38392.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFI PALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38393.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSEALRKIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFI PALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38394.1|Allergen Group V allergen-like protein
product [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRRIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFNDAIKASTGGAYESYKFIGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38395.1|Allergen Group 5 allergen-like [Phleum
pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRRIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFNDAIKASTGGAYESYNFI PALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38396.1|Allergen Group 5 allergen-like [Phleum
pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP

PADKYRTFVATFGAASNKAFEAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYKFIGALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38397.1|Allergen Group 5 allergen-like [Phleum
pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLIIEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFEAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38166.1|Allergen putative nuclear transport factor
2 [Davidiella tassiana]

MSDFNAIAQQFTEFYKTFDTRDRAQLAPLYRENSMLTFEQSPFLGTANIVGKQLQELPFQR
IEHQVATVDAQPSNESGGILVVVSGALLVEEERRPMSYQTFQQLLPADGAYYVFNDFRLV
VYPAA

>accession|CAD38167.1|Allergen putative nuclear transport factor
2 [Alternaria alternata]

MSDFNAIAQQFVEFYKTFDGNRAGLGALYKEHSMLTFEAQGTQGSAAIVEKLNLPFQEQ
IQHRTDVTDAQPSADDGILVLTGALLGGESKPMSTQAFQLKNAEGNWFVLDNDFRLV
YPAA

>accession|CAC84116.1|Putative peptidylprolyl isomerase
(cyclophilin) [Betula pendula]

MASNPKVFFDMEVGGQPVGRIVMELYADTTPRTAENFRALCTGEKGNRSGKPLHYKSS
FHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPGTNGSQF
FICTAKTEWLDGKHVVFVGGVVEGLDIVKAIKVGSSSGRTSKPVVADCGQLS

>accession|AAM77471.1|Allergen major allergen alt a1 [Alternaria
alternata]

MQFTTIASLFAAAGLAAAAPLESRQDNASCPVTTKGDYVWKISEFYGRKPEGTYNSLGF
NIKATNGGTLDFTCQAQADKLEDHKWYSCGENSFMDFSFSDRSGLLLKQKVSDE

>accession|AAM73730.2|Putative vicilin-like protein [Anacardium
occidentale]

MGPPTKFSFSLFLVSVLVLCLGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVKECEKY
YKEKKGREREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQKQLCRFRCQ
ERYKKERGQHNYKREDEDEDEDEAEEDENPYVFEDEDFTTKVKTEQGKVVLLPKFTQK
SKLLHALEKYRLAVLVANPQAFVVP SHMDADSIFFVSWGRGTITKILENKRESINVRQGD
IVSISSTPFIYIANNDENEKLYLVQFLRPVNLPGHFVVFHGPGENPESFYRAFSWEILE
AALKTSKDTLEKLFQDQGTIMKASKEQIRAMSRREGPKIWPFTTEESTGSFKLFKDP
SQSNKYGQLFEAERIDYPPLEKLDMVSYANITKGGMSVPFYNSRATKIAIVVSGEGCVE
IACPHLSSSKSSHPSYKLRARIRKDTVFIVPAGHPFATVASGNENLEIVCFEVNAEGNI
RYTLAGKKNIIKVMKEKAKELAFKMEGEEVDKVFQDEEFFFFQGPWRKEKEGRADE

>accession|AAM83103.1|Allergen paramyosin allergen [Blomia
tropicalis]

MAARSAKYMYQSSRAGHGGDISIEYGTDLGALTRLEDKIRLLSEDLSERELQRVEREK
SDITVQLMNLTERLEETEGSSESVTEMNKKRDSSELAKLRKLLLEDVHMESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDKEKQKQFAEVFELLAQVETANKDKLVAQKTVEKLEYTV
HELNIKIEEINRTVVEVTAHRQRLSQENSELIKEVHEYKISLDNANHLKGQIAQQLEDTR
HRLEDEERKRSSLENHAHTLEVELESKLVQLEEESEARLELERQLTKANGDAASWKSKEYE

AELQAHVDEVEELRRKMAQKISEYGEQLEALLNKCSALEKQKARLQSEVEVLIMDLEKAT
AHAQALEKRVSQLEKINLDLKSLEEVSMLEQTQKDLRVKIADLQKLQHEYEKLRDQKE
ALARENKKLADDLAEAKSQLNDAHRRHEQEIEIKRLENEREELAAAYKEAETLRKQEEA
KNQRLTAELAQTRHDYKRLAQKEEIEEALRKQYQIEIEQLNMRLAEAEAKLKTEVARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITGLQAHYDEVHRQLQOAVDQLGVTQ
RRCQALTAEEEMRVNLEQALRAKRAEQMHAAVVRVNELTTINVNLASAKSKLETEFS
ALQNDYDEVHKELRISDERVQKLTIEVKSTKDLLESETERVTKLETIKKSLETEVRNLQI
RIEEVEANALAGGKRVIKLESRIRDVEIEVEEERRRHAETEKMLRKKDHRVKELLLQNE
EDHKQIQLLQEMSDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVVFTEQESSNF

>accession|P81430.2|Allergen Pollen allergen Ole e 7 (Ole e VII)
[Olea europaea]
APSQSTVTALLTSCVSYIDDQ

>accession|AAL07319.1|Putative Che a 1 allergen precursor
[Chenopodium album]
MAKQAVFLLVGLCVLSLAGVANAAENHFVKVQGMVYCDTCRIQFMTRISTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECVSHDQVYAKQ
SAKVSLSNNGEASDIRSANALGFMRKEPLKECEVLKELDLVDVKN

>accession|AAM93157.1|Allergen trypsin inhibitor [Arachis
hypogaea]
NYLHMLLALSVCFCFLVLGASSISFRQPEENACQFQRLNAQRPDNRIESEGGYIETWNP
NNQEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQ
GRRHQSRPPRRFQGDQSQQQDSHQKVRHFDEGDLIAVPTGVAFWYNDHDTDVAVS
LTDTNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRRRS

>accession|BAC10663.1|Allergen serum albumin [Canis lupus
familiaris]
MKWVTFISLFFLFSSAYSRGLVRRREAYKSEIAHRYNDLGEEHFRGLVLFVAFSQQYLQCCPF
EDHVKLAKVTEFAKACAAEESGANCDKSLHTLFGDKLCTVASLRDKYGDMAADCCEKQEP
DRNECFLAHKDDNPGFPPLVAPEPDALCAAFQDNEQLFLGKYLIEIARRHPYFYAPELLY
YAQQYKGVFAECCQAADKAACLGPKEALREKVVLLSSAKERFKCASLQKFGDRAFKAWSV
ARLSQRFPKADFAEISKVVTDLTKVHKECCHGDLLCADDRADLAKYMCENQDSISTKLLK
ECCDKPVLEKSQCLAEVERDELPGDLPSLAADFVEDKEVCKNYQEAKDVFLGTFLYEYAR
RHPEYSVLLLLRLAKEYEATLEKCCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFE
KLGEYGFQNALLVRYTKKAPQVSTPTLVEVSRKLGKVGTKCCKKPESERMSCAEDFLSVV
LNRLCVLHEKTPVSEVTKCCSESLVNRRCFSGLEVDETYVPKEFNAETFTFHADLCTL
PEAEKQVKKQTALVELLKHKPKATDEQLKTVMGDFGAFVEKCCAAENKEGCFSEEGPKLV
AAAQAALV

>accession|CAD42710.1|Allergen hydrophobin [Davidiella tassiana]
MAFIKSLIASVAAVAFAAPQGGASDNNKKVEIDGQDSAPVCGNGQKVACCNSGEDLIGL
NCLSIPIAIPIQKACGSNIAACCQTGDSEGNLLNLEANCLAIPL

>accession|AAN32987.1|Allergen pollen allergen Phl p 11 [Phleum
pratense]
DKGPGFVVTGRVYCDPCRAGFETNVSHNVQGATVAVDCRPFNGGESKPKAEATTDGLGWY
KIEIDQDHQEEICEVVLAKSPDTCSEIEEFRDRARVPLTSNNGIKQQGIRYANPIAFFR
KEPLKECGGILQAYDLRDAPETP

>accession|BAC19997.1|Putative allergen RA5B precursor [Oryza
sativa (japonica cultivar-group)]
MASNKVVFVLLLLAVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMPYPLPRCALV

KRQCVGRGTAAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMSEV
FRGCRRGDLERAAASLP AFCNVNDIPNGGGGV CYWLARSGY

>accession|BAC20650.1|Putative putative allergenic protein
[Oryza sativa (japonica cultivar-group)]
MAFIKVVFSVLLPVVVSMLVATTTMADHRGQVVYTPGQLCAAGRGYPMYPLPRCRALAKR
QCAGGAVDEQVRQDCCRQLAAIDDSFCRCPALSHMLVGMVKELGAPAKGQPMDEVFPGCR
RGDMKRVAASLP AFCNVNDIPIGIGGV CYWLSYPMNPATGH

>accession|BAC20657.1|Putative allergen RA16 [Oryza sativa
(japonica cultivar-group)]
MASNKVVISALLVVVSVLAATTTMADHHQEQQVYTPGQLCQPGIGYPTYPLPRCRAFVK
RQCVAPGTVDEQVRRGCCRQLAAIDSSWCRCDALNHMLRIIYRESGAADAGHPMAEVFRG
CRRGDIERAAASLP AFCNVNDIPNGVGGGV CYWLPPTGY

>accession|CAD23374.1|Allergen tri s 4 allergen [Trichophyton
schoenleinii]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLNLKNGDISVLT TDSVSEITWLG DGTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKAGDKIN FVGYGQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWDT
YVGTQFNAVFSGSLTKNGDKYSFDGKLNLVQPVKYAESPYPPFFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVP HDGSRVAEP INKRNGPRT PQGIEGASSSPVFS PDGKRI
AYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWS SDGRTLYVTAEDHAT
GKLF TLPADARDNHKPSVVKHDG SVSSFYFIGSSKSVLISGNSLWSNALYQVATPGRPNR
KLFYANEHDPEL KGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGF MVNWIQQQDLGRKFKALVSHDGT FVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDSDFRLSVAEGVGLFNVLQEK
IPSRFLNFPDETHWVTKPENSLVWHQQV LGWINKWSGINKSNPKSIKLSDCPIEVIDHEA
HSYFDY

>accession|CAD23611.1|Allergen tri m 4 allergen [Arthroderma
benhamiae]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKKDRPSG
WNLNLKNGDISVLT TDSVSEITWLG DGTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAKAGDKIN FVGYGQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWDT
YVGTQFNAVFSGSLTKNGDKYSFDGKLNLVQPVKYAESPYPPFFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVP HDGSRVAEP INKRNGPRT PQGIEGASSSPVFS PDGKRI
AYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWS SDGRTLYVTAEDHAT
GKLF TLPADARDNHKPSVVKHDG SVSSFYFIGSSKSVLISGNSLWSNALYQVATPGRPNR
KLFYANEHDPEL KGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGF MVNWIQQQDLGRKFKALVSHDGT FVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDSDFRLSVAEGVGLFNVLQEK
IPSRFLNFPDETHWVTKPENSLVWHQQV LGWINKWSGINKSNPKSIKLSDCPIEVIDHEA
HSYFDY

>accession|CAD23613.1|Allergen tri m 2 allergen [Arthroderma
benhamiae]
NHDDVDYIEPDFVVRTSTNGTNLTRQENVPSWGLARVGSKKAGGTTYYYDSSAGKGVTAY
IIDTGIDINHEDFGGRAKWGNFV DKMEDCNGHGTHVAGTVGGTKYGLAKGVTLVAVKV
LDCDGSNSGVI EGM EWAMREASGGNGTAKAAGKAVMNMSLGGPRSQASNDAAKAISD
AGIFMAVAAGNENMDAQHSSPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITS
LKPGGSTDTLSGTSMASPHVCGLGAYLIGLGKQGGPGLCDTIKEMANEAIQR

>accession|CAD23614.1|Allergen tri m 2 allergen [Arthroderma benhamiae]
FITKAIPIVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTTWLSQNLN
RRLMRRSGSSKAMAGMQNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNLTRQENVPSWGLARVGSKQAGGTTYYYDSSAGKGVTAVIDTGIDIEHEDFGGRAK
WGKNFVDQRDEDCNGHGHVAGTVGGTKYGLAKSVSLVAVKVLDCDGSNSGVSIRGMEW
AMREASGGNGTAKAAGKSVMNMSLGGPRSQASNDAARAISEAGIFMAVAAGNENMDAQHS
SPASEPSVCTVAASTEDDGKAEFVSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMASPH
VCGLGAYLIIGLKGQGGPGLCDTIKQMANEAIQRPGEGTTGKLIY

>accession|P00630.3|Allergen Phospholipase A2 precursor
(Phosphatidylcholine 2-acylhydrolase) (Allergen Api m 1) (Api m
I) [Apis mellifera]
MQVVLGSLFLLLLSTSHGWQIRDRIGDNELEERIIYPGTLWCGHGKSSGPNELGRFKHT
DACCRTHDMCPDVMMSAGESKHGLTNTASHTRLSCDCDDKFDYDCLKNSADTISSYFVGKMY
FNLIDTKCYKLEHPVTGCGERTEGRCLHYTVDKSKPKVYQWFDLRKY

>accession|AAL91662.1|Allergen profilin [Prunus dulcis]
MSWQQYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAPFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLI EQGL

>accession|AAL91665.1|Putative 2s albumin [Anacardium occidentale]
MAKFLLLLFAFVAVLLLVANASIYRAIVEVEEDSGREQSCQRQFEEQQRFRNCQRYVKQEV
QRGGRYNQRQESLRECCQELQEVDRRCRCQNLEQMVRQLQQQEQIKGEEVRELYETASEL
PRICSI SPSQGCQFQSSY

>accession|P83340.1|Allergen Major allergen Epi p 1 (Epi n I4625
*) [Epicoccum nigrum]
ADGIVAVELDTYRGSFXK

>accession|BAC23082.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKFIAPMAFVAMQLIIMAAEDQSAQIMLDS DIEQYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKNINLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAC23083.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAVEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICS CHGKIYHP

>accession|BAC23084.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEQSAQIMLDSVVEKYLRNSRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRITWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRS
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|P83181.1|Allergen RecName: Full=Pollen allergen Sal k 1; AltName: Allergen=Sal k 1 [Salsola kali]
PTITIGGPEYRTIFFDAYLGTSYVIVIKEPAEEFTTISDAVK

>accession|P83332.1|Allergen RecName: Full=Thaumatococcus-like protein 1; AltName: Full=PpAZ44; Flags: Precursor [Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPOLSLTGFELATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGGAAPPATLVEITIA
SNGGQDFYDVSVDGFNLPMSPVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDGSVIAC
KSACLAFFNQPKYCTPPNDKPEKCPDYSKLFKTKQCPQAYSAYDDKSSTFTCSGRPAY
LITFCP

>accession|P83335.1|Allergen RecName: Full=Thaumatococcus-like protein 2; AltName: Full=PpAZ8; Flags: Precursor [Prunus persica]
MMKTLGAVLSLSLTLTSLFSGAHAATMSFKNNCPYTVWPAFSGNPQLSTTGFELASQASQFQ
LDTPVPWGRFWARTRCSTDASGKFVCEADDCDSGQLMCNGKTGIPATLAEFTIAAGGG
QDFYDVSVDGFNLPMSPVTPQGGTGTCKMGSAAANVNLVCPSELQKIGSDGSVVACLSAC
VKFGEPPQYCTPPQETKEKCPPTNYSQIFHEQCPDAYSAYFDDNKGLFTCSGGPNYLITFCP

>accession|P83377.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Pol g 5) [Polistes gallicus]
NDYCKIKCSSGVHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKKLIVEEHNFRFRQKVAQG
LETRGNPQPQAASNMNVLVWVNDQAKIAQVWASQCQILVHDKCRNTEKYQVGNIAIYAG
SSNHFPVTKLIQLWENEVKDFNYNTGITNKNFGKVGHYTQMVWGNTKEVGCGLKYVEK
NMKIHYLICNYGPAGNYLGQPIYTKK

>accession|AAN73248.1|Putative helix-loop-helix protein [Fusarium culmorum]
MAGDHAGDQSFYDFLIEPEMIAPTPPGQFPHQQPISSPNRTSRNTPLRPESTEIETHHH
ANHPPALPVLGMQLPVPGTVPESRAQSRASLNLDIDLHAPSHPSHLSHGAPHEQEHA
HEIQRHRAHSAQSSAGLPPTGFASHLPPASSGPVSLGWNMYHVPPNLHLNANQFNFEVPG
HMNVSGHPHLEHSSSTNPNSFHYEHNIVSPSSIHPSAHFDGEVPSQWDDSLGHGASTPK
VRTPSHHVSSNPWAEINEPTGGDNDNLAPVTRPRKPARARRQKKEPRKLSASQGARSSS
TGGTAHSVSDAASPSSTSHQSRASLTSKSASMTSAASTASSRKSALRSASRTSKNTLDKP
NDTAEDRRTRASHNLVEKQYRNRLNAQFESLLHALPEQIRHGDNGGNGNVNDNESEQAND
LDRRVSKGEVLEMARRHIEALERERNQLGT

>accession|CAD12861.1|Putative profilin [Artemisia vulgaris]
MSWQTYVDDHLMCDIEGTGQHLTSAEIFGTDGTVWAKSASFPEFKPNEIDAIKEFNEAG
QLAPTGLFLGGAKYMIQGEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQCNMV
VERLDGYLLDQGM

>accession|CAD12862.1|Putative profilin [Artemisia vulgaris]
MSWQTYVDDHLMCDIEGTGQHLTAAAILGLDGTWAKSDKFPEFKPEEMKGIINEFNEVG
TLAPTGLFLGGAKYMLVQGEAGAVIRGKKGAGGICIKKTGQAMVMGIYDEPVAPGQCNI
VERLGDYLVQNM

>accession|AAM10779.1|Putative trypsin [Blomia tropicalis]
MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVGGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAAHCIQGLSASSLTTRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPQGSQDPKASSEVLITGWGTLSSGASSLPTKLQKVTV
IVDRKTCNANYGAVGAEITDNMFCAGILNVGGKDACQGDSSGPPVAANGVLVAVSWGYYC
AQAKYPGVYTRVGNYSISWIKGKGVV

>accession|AAN76862.1|Allergen allergen Ana 0 2 [Anacardium
occidentale]
LSVCFLLIFHGLASRQEWQQQDECQIDRLDALEPDNRVEYEAGTVEAWDPNHEQFRCAG
VALVRHTIQPNGLLLPQYSNAPQLIYVVQEGEGMTGISYPGCPETYQAPQQGRQQGQSGRF
QDRHQKIRRFRRGDI IAI PAGVAHWCYNEGNPSPVVTVTLDDVSNQNLDRTPRKFHLAG
NPKDVFQQQQHQSRGRNLFSGFDTELLAEAFQVDERLIKQLKSEDNRRGIVKVKDDEL
VIRPSRSQSERGSESEEESEDEKRRWQORDNGIEETICTMRLKENINDPARADIYTPEVG
RLTTLNSLNLPIKWLQLSVEKGVLYKNALVLPHWNLNSHSIIYGCKGKGQVQVVDNFGN
RVFDGEVREGQMLVVPQNFVAVKRAREERFEWISFKTNDRAMTSPLAGRTSVLGGMPPEV
LANAFQISREDARKIKFNNQQTTLTSGESSHMRDDA

>accession|CAD20556.1|Allergen putative invertase inhibitor
precursor [Platanus x acerifolia]
MKLSFSLCIIFFNLLLLLQAVISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHTAD
LQGLGVISANLAIQHGSKIQTFIGRILKSKVDPALKKYLNDCVGLYADAKSSVQEAIADF
KSKDYASANVKMSAALDDSVTCEDGFKEKKGIVSPVTENKDYVQLTAISLAITKLLGA

>accession|AAN77576.1|Allergen allergen Ara h 2.02 [Arachis
hypogaea]
MAKLTILVALALFLAAHASARQQWELQGDRRCQSQLERANLRPCEQHLMQIKQRDEDSY
GRDPYSPSQDPYSPSQDPDRRDPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRMCCEA
LQQIMENQSDRLQGRQQEQQFKRELRLNPQQCGLRAPQRCDLEVESGGRDRY

>accession|AAN86249.1|Putative recombinant Ib pronapin precursor
[Brassica napus]
QPQKCQREFQQEQHLRACQQWIRQQLAGSPFSENQWGPQQGPSLREQCCNELYQEDQVCV
CPTLKQAAKSVRVQGHGPFQSTRIYQIAKNLPNVCNMKQIGTCPFIAI

>accession|AAO15607.1|Putative glutathione S-transferase
[Sarcoptes scabiei type hominis]
MSSKPTLGYWDLRGLGQSIRILLTYAGVDFVDKRYKIGSAPDFDRGEWLNDKFNGLDFP
NLPYYIEGDVKLTSIAILRYLGRKHKLDGQNEQEWRRITLCEQQIMDLLMALARICYDP
NFEKLLDLVAKLPDDLKLFKFLGDHQFVAGTNISYIDFLVYEYLIRVKIFAPEIFTKF
PNLNSYITRIESMPKISAYIKQQEPQLFNGPMAKWNTKY

>accession|AAO15613.1|Putative major allergen 1 [Sarcoptes
scabiei type hominis]
FVELKKDKDLYSMKSNVKNNEIFYENMDLEKNGKMNWYYKRNDRTWNMDLDNAFNPRD
GTMKLQVKDRIYDIKLRKREPFYRGLHIEGNENALIKKGLHMSLVDPLTLNVLTKNDGI
VDMTLDLVSPNTKKAALKINSKKYDLHDGEITVSIFNPRMTWKHHTRKGMELNIDADI
TRKGLSITYSRKEPDDSTKVRYSRQGNQVSMEVDSKLIIEGHANGTLTDGKIHVKGRESDF
EIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMNMKYDRFAPVKILK

LDYDGLNIEKHIDAEYEPSNHYKYFTDGKS

>accession|AA015713.1|Allergen allergen Pen m 2 [Penaeus monodon]

MADAAVIEKLEAGFKLEAATDCKSLLKLYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSPLFDPIIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQOK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFVLVWVNEEDHLRIISMQMGDLG
QVFRRLTSAVNEIEKRIPFSHDRLGFLTFCTNLGTTARASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGIKLIKMEKEM

>accession|CAD24068.1|Putative class I chitinase [Hevea brasiliensis subsp. brasiliensis]

EQCGRQAGGALCPGGLCCSQYGCANTPEYCGSGCQSQCDDGGVGGEGGCVDLGSIIISRST
FEEMLKHRNNAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHTTG
GWPTAPDGPYAWGYCHKEELNQASSYCSPPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNPNLDVATDRVISFKAAIWFWMTPQFPKPSCHDVITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGSGWDARVEDRIGFYKRYCDMFGVGYGSNLDCYNQTPFFGLG

>accession|CAD37201.1|Allergen profilin [Prunus persica]

MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPFAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMIQGEAGAVIRGKKKSGGITVKKTNQALIIIGIYDEPLTPGQCNMIVE
RLGDYLIHQGL

>accession|CAD37202.1|Allergen profilin [Prunus persica]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMIQGEPAVIRGKKKGGVTVKKSTLALLIGIYDEPMTGQCNMIVE
RLGDYLVHQGL

>accession|BAC53948.1|Allergen Der f 1 allergen preproenzyme [Dermatophagoides farinae]

MKFVLAIASLLVLSTVYARPASIKTFEEFKAFNKNYATVEEEEVARKNFLESLSKYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRLSRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVI
IGIKDLRAFQHYDGRITIIQHDNGYQPNYHAVNIVGYGSTQGVYWIWRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVIM

>accession|AAM19082.1|Putative 60 kDa allergen Der f 18p [Dermatophagoides farinae]

MTRFSLTVLAVLAACFGSNIRPNVATLEPKTVCYYESWVHWRQGEKMDPEDIDTSLCTH
IVYSYFGIDAATHEIKLLDEYLMKDLHDMHFHTQHKGNAMIAVGGSTMSDQFSKTAAV
EHYRETFVTVSTVDMTRYGFDGVMIDWSGMQAKDSDNFIKLLDKFDEKFAHTSFVMGVTL
PATIASYDNYNIPAIISNYVDFMNVLSLDYTGSWAHTVGHASPFPEQLKTLAYHKRGAPR
HKMVMVAPFYARTWILEKMNKQDIGDKASGPGPRGQFTQTDGFLSYNELCVQIQAE'NAF
TITRDHDNTAIYAVYVHSNHAEWISFEDRHTLGEKAKNITQQGYAGMSVYTLNEDVHGV
CGDKNPLLHAIQSNYYHGVVTEPTVVTLPPVTHTEHVTDIPGVFHCHEEGFFRDKTYCA
TYEYCKKGFLEKTVHHCANHLQAFDEVSRTCIDHTKIPGC

>accession|NP_776945.1|Allergen collagen alpha-2(I) chain precursor [Bos taurus]

MLSFVDTRTLLEAVTSLATCQSLQEATARKGPSGDRGPRGERGPPGPPGRDGDGIPG
PPGPPGPPGPPGLGGNFAAQFDAQGGGPGPMGLMGRGPPGASGAPGPQGFQGGPPGEPGE
PGQTGPAGARGPPGPPGKAGEDGHPGKPRGPRGERGVVGPQARGFPPTPLPGFKGIRGH
NGLDGLKQPGAPGVKGEPPGAPGENGTPGQTGARGLPGERGRVGPAGPPAGARGSDGSVGP

VGPAGPIGSAGPPGFPAGPGPKGELGPVGNPGPAGPAGPRGEVGLPGLSGPVGPPGNPGA
NGLPGAKGAAGLPGVAGAPGLPGPRGIPGPVGAAGATGARGLVGEPGPAGSKGESGNKGE
PGAVGQPGPPGSGEEGKRSTGEIGPAGPPGPPGLRGNPGSRGLPGADGRAGVMGPAGS
RGATGPAGVRGPNGDSGRPGEPGLMGPRGFPSPGNIGPAGKEGVPGLPGIDGRPGPIGP
AGARGEPNIGFPGPKGSPGDPGKAGEKGHAGLAGARGAPGPDGNNGAQQPPGLQGVQGG
KGEQGPAGPPGFQGLPGPAGTAGEAGKPGERGIPEGFGLPGPAGARGERGPPGESGAAGP
TGPISRGPSGPPGPDGNKGEPGVVGAPGTAGPSGSPGLPGERGAAGIPGGKGEKGETGL
RGDIGSPGRDARGAPGAIGAPGPAGANGDRGEAGPAGPAGPAGPRGSPGERGEVGPAGP
NGFAGPAGAAGQPGAKGERGTKGPKGENGPVGPTGPVGAAGPSGPNPPGPAGSRDGGP
PGATGFPGAAGRTGPPGSGISGPPGPPGPAGKEGLRGPRGDQGPVGRSGETGASGPPGF
VGEKGPSGEPGTAGPPGTPGPQGLLGAAGFLGLPGSRGERGLPGVAGSVGEPGLGIAGP
PGARGPPGNVGNPGVNGAPGEAGRDGNPNDGPPGRDQPGHKGERGYPGNAGPVGAAGA
PGPQGPVGPVKGHNRGEPGPAGAVGPAGAVGPRGSPGQGIQIRGDKGEPGDKGPRGLPGL
KGNHGLQGLPGLAGHHGDQAPGAVGPAGPRGPAGPSGPAGKDGRIGQPGAVGPAGIRGS
QGSQGPAGPPGPPGPPGPPGPPGSGGGYEFGFDGDFYRADQPRSPSLRPKDYEVDATLKSL
NNQIETLLTPEGSRKNPARTCRDLRLSHPEWSSGYYWIDPNQCTMDAIKVYCDFSTGET
CIRAQPEDIPVKNWYRNSKAKKHVWVGETINGGTQFEYNVEGVTTKEMATQLAFMRLLAN
HASQNITYHCKNSIAYMDEETGNLKKAVILQGSNDVELVAEGNSRFTYTVLVDGCSKKTN
EWQKTIIEYKTNKPSRLPILDIAPLDIGGADQEIIRLNIGPVCFK

>accession|NP_776953.1|Allergen alpha-S2-casein precursor [Bos taurus]

MKFFIFTCLLAVALAKNTMEHVSSSEESIISQETYKQEKMAINPSKENLCASTFCKEVVR
NANEEYSIGSSSEESAEVATEEVKITVDDKHQKALNEINQFYQKFPQYLYQYLYQGPVIV
LNPWDQVKNRANVPITPTLNREQLSTSEENSKKTVDMESTEVFTKTKLTHEEKNRLNFLK
KISQRYQKFALPQYLKTVYQHQAAMKPIQPKTKVIPPYVRYL

>accession|AA024900.1|Allergen major pollen allergen Art v 1 precursor [Artemisia vulgaris]

MAKCSYVFCVALLIFIVAIGEMEAAGSKLCEKTSKTYSGKCDNKKCDKKCIEWEKAQHGA
CHKREAGKESCFYFDCSKSPPGATPAPPGAAPPPAAGGSPSPPADGGSPPPPADGGSP
VDGGSPPPPSTH

>accession|NP_776719.1|Allergen kappa-casein precursor [Bos taurus]

MMKSFFLVVTILALTLPLFLGAQEQNQEQQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYG
LNYYQQKPVALLINNQFLPYPPYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKNQDKTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEI
NTVQVTSTAV

>accession|AA025113.1|Allergen major allergen Mal d 1 [Malus x domestica]

MGVFTYESEFTSVIPPARLFNAFVLDADNLIPKIAPQAVKSAEILEGDDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFLKIENYLLEHPDAYN

>accession|AA032314.1|Putative putative allergen I1 [Carya illinoensis]

MARVAALLVALLFVANAAAFRTTITTTMEIDEDIDNPRRRGESCREQIQRQQYLNRCQDYL
RQQCRSGGYDEDNQRFHFRQCCQQLSQMEEQCQCEGLRQAVRQQQEEGIRGEEMEEMVQ
CASDLPKECGISSRSCEIRRSWF

>accession|1N10_A|Allergen Chain A, Crystal Structure Of Phl P 1, A Major Timothy Grass Pollen Allergen [Phleum pratense]

AIPKVPPGNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVKPFFSGMTGCGN

TPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNEEPIAPYHFDLSGHAFGAMAKKG
DEQKLR SAGELELQFRRVKCKYPEGTKVTFHVEKGSNPNYLALLVKYVNGDGDVVAVDIK
EKGKDKWIELKESWGAIWRIDTPDKLTGPFTVRYTTEGGTKTEAEDVIPEGWKADTSYES
K

>accession|1NLX_N|Allergen Chain N, Crystal Structure Of Phl P 6,
A Major Timothy Grass Pollen Allergen Co-Crystallized With Zinc
[Phleum pratense]
MGKATTEEQKLIEDVNASFRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQL
VPKLDDEVYNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA

>accession|CAD20981.3|Putative putative heat shock protein
[Malassezia sympodialis]
MSSVVGLDIGNSSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGS LKRLIGRTFQDESIQTYEKPFVNAELVDAKGEVGVKVRFQNEEHIFSATQLLA
MYLGKLLD TTQNELGGSGVSDVVLSP IWF TDAQRRAMLHAAE IANLNPLRVMNEPTATA
LGYGITK TDLPEPDS PRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNF GGRNFDRV
LMEHFAEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQSG LTKDEIHSVELVGGSSRVPALKERIAAWYK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPIKVSWE PAPDVPDEENELV
VFNTNNPVPSTKILTFYRKEPFSLDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPPVDPNAAEDAEPKTEKKIVKKLQRKDDL
IVSGIGLLDPTLLAELKEREGQMYAADKLVADTEDRKNAL E EYIYDTRSKLDERYATFVQ
SEEKEKLLAMLAESEDWLYTEEGEDATKSAYVSRLET LQKVGAP I HFRWKEHEERPKAAA
QLREVVNKYMSV FENEPEKYDHLSDDDKTKVIEKAATVGKWLDDYMYKQSEL PKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDT SKPEENAQTSNENEKQGDMDVD

>accession|CAD68071.1|Putative manganese superoxide dismutase
[Malassezia sympodialis]
PFYPIPSALPFPLPIHSLFSRRLFRFRSRTAARAGTEHTLPPLPYEYNALEPFISADIM
MVHHGKHHQTYVNNLNASTKAYNDAVQAQDVLKQ MELLTAVKFN GGGHVNHALFWKTMAP
QSQGGGQLNDGPLKQ AIDKEFGDFEKFAAFTAKALGIQSGWCWLGLSKTGS LLDLVVAK
DQDTLTTHHPIIGWDGWEHAWYLQYKNDKASYLKQWNVVNWSEAESRYSEGLKASL

>accession|AA045607.1|Putative beta-expansin 9 protein [Zea
mays]
MGSLANNIMVVGAVLAALVVGSGCPPKVP PGPNI TTNYNGKWL TARATWYGQPNGAGAP
DNGGACGIKVN NLP PYSGMTACGNVPIFKDGKGC GSCYEVRCKEKPECSGNPVTVFITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKLRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYVAVLVK FVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALGPFSIRLTS
ESGKKVIAKDIIPANWRPDAVYTSNVQFY

>accession|AA045608.1|Putative beta-expansin 1 protein [Zea
mays]
MGSLANNIMVVGAVLAALVAGGSCGPPKVP PGPNI TTNYNGKWL TARATWYGQPNGAGAP
DNGGACGIKVN NLP PYSGMTACGNVPIFKDGKGC GSCYEVRCKEKPECSGNPVTVYITDM
NYEPIAPYHFDLSGKAFGSLAKPGLNDKIRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYLAVLVKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALGPFSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>accession|CAD69036.1|Allergen Der p 5-like protein product
[Dermatophagoides pteronyssinus]
MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDL LMERIHEQIKKGELALFYLQEQINHFE
EKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRMLQRKDL DIFEQYNLEMLKKS GDILERDL
KKEEARVKNIEV

>accession|CAD46559.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIIQEGGAVIRGKKKSGGVTVKKTGQALVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>accession|CAD46560.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHGDSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIIQEGPGVVIRGKKKGGGVTVKKSTMASLIGIYDEPMPGQCNMVVE
RLGDYLIEQGL

>accession|CAD46561.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGYRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIIQEGPGAVIRGKKKSGGITIKKTSQALLIGIYDEPVTGQCNIIVE
RLGDYLIEQGL

>accession|1L3P_A|Allergen Chain A, Crystal Structure Of The
Functional Domain Of The Major Grass Pollen Allergen Phl P 5b
[Phleum pratense]
IPAGELQIIDKIDAAFVAATAAATAPADDKFTVFEAAFNKAIKETTGGAYDXYKCIPLS
EAAVKQAYAATVAAAPQVKYAVFEAALTKAITAMSEVQKVSQ

>accession|CAD80019.1|Putative Group 1 allergen-like [Plantago
lanceolata]
MVKLTQVAAILLIGAFFLIASSTSIATQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAG
AQVQL

>accession|AAO65960.1|Putative oleosin [Corylus avellana]
MAEHPRQLQDPAHQPRSHQVVKAAATAATAGSLLVPSGLILAGTVIALTLATPLFVIFSP
VLVPAVITVSLIIMGFLASGGFGVAAVTVLSWIYRYVTGRHPPGADQLDHARMKLASKAR
EMKDRAEQFGQOHVTSQGS

>accession|CAD82911.1|Allergen precursor Can f II [Canis
familiaris]
STFCLGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHFRVFIHSM
SAKDGNLHGDILIPQDGQCEKVSLTAFKTATSNNKFDLEYWGHNDLYLAEVDPKSYLILYM
INQYNDDTSLVAHLMVRDLRQQDFLPAFESVCEIDIGLHKDQIVVLSDDDRQCQSRD

>accession|CAD82912.1|Allergen precursor Can f II [Canis
familiaris]
QLLLLTVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLTKPWGHFRVFIH
SMSAKDNLHGDILIPQDGQCEKVSLTAFKTATSNNKFDLEYWGHNDLYLAEVDPKSYLIL
YMINQYNDDTSLVAHLMVRDLRQQDFLPAFESVCEIDIGLHKDQIVVLSDDDRQCQSRD

>accession|CAD56944.1|Putative vitellogenin precursor [Apis
mellifera]
MLLLLTLLLFAAGTVAADFQHNWQVGN EYTYLVR SRTL TSLGDLSDVHTGILIKALLTVQA
KDSNVLAQVWNGQYARVQQSMPDGWETEISDQMLELRDLPI SGKPFQIRMKHGLIRDLI
VDRDVPTWEVNILKSI VQQLQVDTQGENAVKVNSVQVPTDDEPYASF KAMEDSVGGKCEV
LYDIAPLSDFVIHRSP ELPMPPTLKGDRHMEVIKIKNFDNCDQRINYHFGMTDNSRLEP
GTNKNKGF FRSSTSRIVISESLKHFTIQSSVTT SKMMVSPRLYDRQNGLVLSRMNLT LA
KMEKTSKPLPMVDNPESTGNLVYIYNNPFS DVEERRVSKTAMNSNQIVSDNSLSSSSEK L
KQDILNLRTDISSSSSSISSEENDFWQPKPTLEDAPQNSLLPNFVGYKKGKHIGKSGKVD
VINA AKELIFQIANELEDASNIPVHATLEKFMILCNLMRTMNRKQISELESNMQISPNE L
KPNDKSQVIKQNTWTVFRDAITQTGTGPAFLTIKEWIERGTTKSMEANIMSKLPKTVRT

PTDSYIRSFPELLQNPKVSNEQFLNTAATLSFCEMIHNAQVNKRSIHNNYPVHTFGRLLTS
KHDNSLYDEYIPFLERELRKAHQEKDSPRIQTYIMALGMIGEPKILSVFEPYLEGKQQMT
VFQRTLMVGLGKLTETNPKLARSVLYKIYLNTEMESHEVRCTAVFLLMKTNPPLSMLQRM
AEFTKLDTNRQVNSAVKSTIQSLMKLKSPEWKDLAKKARSVNHLTHHEYDYELSRGYID
EKILENQNIITHMILNYVGSEDSVIPRILYLTWYSSNGDIKVPSTKVLAMISSVKSFMEL
SLRSVKDRETIISAAEKIAEELKIVPEELVPLEGNLMINNKYALKFFPFDKHILDKLPTL
ISNYIEAVKEGKFMNVNMLDTYPEVHSFPTETGLPFVYTFNVIKLTKTSGTVQAQINPDF
AFIVNSNLRLTFSKNVQGRVGFVTPFEHRHFI SGIDSNLHVYAPLKI SLDVNTPKGNMQW
KIWPMKGEEKSRLFHYSVVPFVSNHDILNLRPLSMEKGRPMIPDDNTSLALPKNEGPF
LNVETAKTNEEMWELIDTEKLTDRLPYPWTMDNERVYKVDMYMNLEGEQKDPVIFSTSF
SKVMTRPDTSENWTPKMMAVEPTDKQANSKTRRQEMMREAGRGIESAKSYVVDVVRVHP
GESESETVLTAWSESNEVESKGRLLGFWRVEMPRSNADYEVCIQSQIMVSPETLLSYDEK
MDQKPKMDFNVDIRYGKNCCKGERIDMNGKLRQSPRLKELVGATSIIKDCVEDMKRGNKI
LRTCQKAVVLSMLLDEVDISMEVPSDALIALYSQGLFSLSEIDNLDVSLDVSNPKNAGKK
KIDVRAKLNEYLDKADVIVNTPIMDAHFKDVKLSDFGFSTEDILDTADEDLLINNVFYED
ETSCMLDKTRAQTFDGKDYPLRLGPCWHAVMTTYPRINPDNHNEKLHHPKDKSVSVLSRE
NEAGQKEVKVLLGSDKIKFVPGTTSQPEVFVNGEKIVVSRNKAYQKVEENEIIFEIYKMG
DRFIGLTSDFVSLALDGERVMLKASEDYRYSVRGLCGNFDHSDTNDVFGPKNCLFRKP
EHFVASYALISNQCEGDSLNVAKSLQDHDCIRQERTQQRNVIDSESEGRLDTEMSTWGYH
HNVNKHCTIHRTOVKETDDKICFTMRPVVSCASGCTAVETKSKPKYKFKHCKMEKNEAAMKLL
KRIEKGANPDLSQLPVSTTEELTVPFVCKA

>accession|BAC66618.1|Putative parvalbumin [Scomber japonicus]
MAFASVLKDAEVTAAALDGCKAAGSFDHKKFFKACGLSGKSTDEVKKAFAIIDQDKSGFIE
EEELKLFLOQNFKAGARALSDAETKAFLKAGDSDGDGKIGIDEFAAMIKG

>accession|AAL92578.1|Allergen allergen Ole e 10 [Olea europaea]
MRGTAGVPDQPVPTPTPSVPTSSSPVPKPPTQGNKKWCVPKAEATDAQLQSNIDYVCSQS
GMDCGPIQANGACFPNPTVRAHASYAMNSWYQSKGRNDFDCDFSGTGAITSSDPSNGSCS
FLS

>accession|AAL92870.1|Allergen pollen allergen Che a 2
[Chenopodium album]
MSWQTYVDDHLMCDIEGNHLSSAAILGHGDTVWAQSPSPQLKPEEVSAIMKDFNEPGSL
APTGLHLGGTKYMIQGEPEGDVIRGKKGPGGVTIKKTNQALIIGIYGEPMTPGQCNMVVE
RIGDYLVEQGM

>accession|AAL92871.1|Putative pollen allergen Che a 3
[Chenopodium album]
MAAEDTPQDIADRERIFKRFDTNMGDKISSSELGDALKTLGSVTPDEVRRMMAEIDTDGD
GFISFDEFDFARANRGLVKDVSKIF

>accession|CAD87529.1|Allergen phl p5a allergen precursor
[Phleum pratense]
ADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEEQKLIKINAGFKAALAAAAGVPPAD
KYRTFVATFGAASNKFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATPEAK
YDAYVATLSEALRI IAGTLEVHAVKPAEEVVKVIPAGELQVIEKVDAAFKVAATAANAAP
ANDKFTVFEEAFNNAIKASTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETAL
KKAITAMSEAQAAKPAAAATATATS AVGAATGAATAATGGYKV

>accession|CAD87730.1|Putative allergen Len c 1.0101 [Lens
culinaris]
SRSDQENPFIFKSNRFQTIYENENGHIRLLQRFDKRSKIFENLQNYRLLLEYKSKPHTIFL
PQFTDADFILVVLGSKAILTVLNSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRLV
DLAIPVNRPGQLQSFLSGTQNPQPSFLSGFSKNILEAAFNTEYEEIEKVLLEEQEQKSQH

RRSLRDKRQEITNEDVIVKVSREQIEELSKNAKSSSSKKSVSSESEPFNLRSRNPIYSNKF
GKFFEITPEKNPQLQDLDFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGFELVGQRN
ENQQEQREENDEEEGQEEETTKQVQRYRARLSPGDVLVIPAGHPVAINASSDLNLIGFGI
NAKNNQRNFLAGEEEDNVISQIQRPVKELAFPGSSREVDRLLTNQKQSHFANAQPLQIE

>accession|CAD87731.1|Putative allergen Len c 1.0102 [Lens
culinaris]

SRSDQENPFIFKSNRFQTIYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPHTLFL
PQYTDADFILVVLSGKAVLTVLNSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNNPGQLESFLLSGTQNPQPSFLSGFNKSILEAAFNTDYEEIEKVLLEDQEQEPQH
RRSLRDRRQEINKENVIVKVSREQIKELSKNAKSSSSKKSVSSESEPFNLRSRNPIYSNKF
GKFFEITPEKNPQLQDLDFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGFELVGQRN
ENQREENDDEEEGQEEETSTQVQRYRAKLSPGDVFVVPAGHPVAINASSDLNLIGFGINAK
NNQRNFLAGEEEDNVISQIQRPVKELAFPGSSREVDRLLTNQKQSHFANAQPLQIE

>accession|O23878.1|Putative 13S globulin seed storage protein 1
precursor (Legumin-like protein 1) [Fagopyrum esculentum]

MSTKLILSFSLSCLMVLSCSAQLLPWRKQQRSRPHRHGHQGFHHQCDVQRLTASEPSRRVRS
EAGVTEIWDNDTPEFRFCAGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVPGC
PETFQSESEFEYPPQSQRDQRSRQSESEESSRGDQRTQSESEEFSSRGDQRTQSESEEFSS
RGDQRTQSESEEFSSRGDQRTQSESEEFSSRGDQHQKIFRIRDGDVIPSPAGVVQWTHND
GDNDLISITLYDANSFQNLQDLGNVRNFFLAGQSKQSREDRRSQRQTREEGSDRQSRESDD
DEALLEANILTGFQDEILQEIFRNVDQETISKLRGDNDQRGFIVQARDLKLKRVPEEYEEE
LQREERGDRKRGGSGRSNGLEQAFCNLKFQNVNRP SRADVFNPRAGRINTVNSNLP ILE
FIQLSAQHVVLYKNAILGPRWNLNAHSALYVTRGEGRVQVVGDEGRSVFDDNVQRGQILV
VPQGFVAVLKAGREGLEWVELKNDDNAITSPIAGKTSVLRAIPVEVLANSYDISTKEAFR
LKNGRQEVEVFLPFQSRDEKERERF

>accession|O23880.1|Putative 13S globulin seed storage protein 2
precursor (Legumin-like protein 2) [Fagopyrum esculentum]

MSTKLILSFSLSCLMVLSCSAQLWPWQKGQSRPHHGRQHQFQHQCDIQRLTASEPSRRV
RSEAGVTEIWDHDTPEFRCTGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVIP
GCPETFQSDSEFEYPPQSQRGRHSRQSESEESSRGDQHQKIFRIREGDVIPSPAGVVQWT
HNDGNDDLISVTLLDANSYHKQLDENVRSSFFLAGQSQRRETEEGSDRQSRESDDDEALLG
ANILSGFQDEILHELFRDVDRETISKLRGENDQRGFIVQAQDLKLRVPQDFEEYERER
DRRRGQGGSGRSNGVEQGFQCNLKFRRNFNTPTNTYVFNPRAGRINTVNSNLP ILEFLQL
SAQHVVLYKNAILGPRWNLNAHSALYVTRGEGRVQVVGDEGKSVFDDKVQRGQILVVPQG
FAVVLKAGREGLEWVELKNSGNAITSPIGGRTSVLRAIPVEVLANSYDISTKEAYKLKNG
RQEVEVFRPFQSRDEKERERFSIV

>accession|Q9XFM4.1|Putative 13S globulin seed storage protein 3
precursor (Legumin-like protein 3) (Allergen Fag e 1) [Fagopyrum
esculentum]

MSTKLILSFSLSCLMVLSCSAQLLPWQKGQSRPHHGHQGFQHQCDIQRLTASEPSRRVRS
EAGVTEIWDHDTPEFRFCAGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVPGC
PETFQSGSEFEYPPRSQRDQRSRQSESEESSRGDQRSRQSESEESSRGDQRSRQSESEEFSS
RGDQHQKIFRIRDGDVIPSPAGVVQWTHNNGDNDLISITLYDANSFQNLQDENVRNFFLA
GQSKQSREDRRSQRQTREEGSDRQSRESQDDEALLEANILSGFEDEILQEIFRNVDQETI
SKLRGENDQRGFIVQARDLKLKRVPEEYEEELQREERGDRKRGGSGRSNGLEQAFCNLFRQ
NVNRP SRADVFNPRAGRINTVDSNLP ILEFIQLSAQHVVLYKNAILGPRWNLNAHSALY
VTRGEGRVQVVGDEGRSVFDDNVQRGQILVVPQGFVAVLKAGREGLEWVELKNDDNAITS
PIAGKTSVLRAIPVEVLANSYDISTKEAFRLKNGRQEVEVFRPFQSRDEKERERFSIV

>accession|AAP06493.1|Putative hypothetical protein, putative
Profilin/allergen [Schistosoma japonicum]

MSADSWDNHCVTYVANNKCLKNLCMTAIDGSHLGTSNPDFRIPPPELILQLKSILDGGLDT
SIFFMGEKYIVLQHDSSCLVSRGKSLIFYATGKICLVGQTVDDDQNNCTQGNFAISRM
RDHYERMGY

>accession|AAP13554.1|Allergen major allergen Per a 1.0105
[Periplaneta americana]
NSARGEHGLDVADFLNEIHSIIIGLPPFVPPSRRHARRGVINGLIIDDVIAAILPVDELKAL
FQEKLETSPDFKALYDAIRSPEFQSIISTLNAMPEYQDLLQNLNRDKGVVDVDFHIELIRSL
FGLP

>accession|AAO38859.1|Putative 11S globulin [Bertholletia
excelsa]
MAKLFLLSLGIFLLFHCCLAIEYEQEELYECRIQRLTAQEPQYRLEAEAGVSEVWDYTDQ
QFRCAGVAALRNTIRPQGLLLPVYTNAPKLYYVTQGRGILGVLMPGCPETFQSMSQFQGS
REQEEERGRFQDQHQKVHHLKKGDI IAI PAGVALWCYNDGDEDLVTVLVQHTASDLNQLD
QNPRHFFLAGNIQRSQKQRGERYGLRGGQILADNVFKGFNMEALADVLGFGMDTETARK
VRGEDDQRGHIVRVEQGLKVI RPPRIREELEQQEGGYNGLEETICSATFIQNI DNPAEA
DFYNPRAGRLTTVNSLKVPI LTFQLSAMKGVLYENAMMAPLWRLNANSVVYAVRGEARV
QIVDHRGETVFDNLRREGQMVVVPQNFVVKQAGSRGF EWVVFNTNDNALFSTAAGRTSP
LRGIPVGVLANAYRLS QEEARRIKLNRDEAVLFPQGSRSRGRASA

>accession|AAP30720.1|Putative enolase [Rhodotorula
mucilaginosa]
MAISKIHSRYVYDSRGNPTVEVELTTEKGTFRSIVPSGASTGVHEALELRDGDKSKWLKG
GVLKAVANVNDTIAPALIEANIDVADQAKIDEFLKLDGTPNKAKLGANA I LGVSLAAAK
AGAAQKDVPLYKHIADISKAKEGKFVLPVPFQNVNLGGSHAGGDLAFQEFMIVPSGAPSF
SEGLRIGSEVYHHLKSLTKKKYQSGAGNVGDEGGVAPDIKTAKEALDLIVSAIEAAGYTG
QVDIAMDVASSEFYKDGLYDLDFKNPNSDKSKWITGPQLAELYEQLLNEYPIVSI ED PFA
EDDWEAWSHFFSKVEGKTQIVGDDLTVTNPIRIKKA IETKAADALLKVNQIGTLTESIQ
AANDSYAAGWGMVSHRSGETEDTFIADLSVGIRSGQTKTGAPARSERLAKLNQILRIE
ELGDKAIYAGKDFHKAHSL

>accession|Q9FSG7.1|Putative Thaumatin-like protein 1a precursor
(Allergen Mal d 2) (Mdt11) (Pathogenesis-related protein 5a)
(PR-5a) [Malus x domestica]
MMKSQVASLLGLTLAILFFSGAHAAKITFTNCPNTVWPGLTGTGDQKPQLSLTGFELASK
ASRSVDAPSPWGRFRWGRTRCSTDAAGKFTCETADCGSQVACNGAGAVPPATLVEITIA
ANGGQDYDVS LVDGFNL PMSVAPQGGTGECKPSSCPANVNKVC PAPLQVKAADGSVISC
KSACLAFGDSKYCCTPPNNTPETCPPTEYSEIFEKQCPQAYSAYDDKNSTFTCSGGPDY
VITFCP

>accession|BAC76688.1|Putative 27K protein [Triticum aestivum]
GDVATGRGSEKVVHVAIYYESLCPYSVRFVANHLFKAYRDGLLDAANLTLVPYGNVVRND
GTISCQHGP EEC LLNTVEACAIDAWPDVKVHLGFIYCVSDLVLKKNHREWESCFQKQGLD
PKPVTECYKGERGHNSLEYGRQTAELVPPHQFVPWVVVDGKPLYNDYGNFKAYICKAYK
GYPLLEACRSLGLEAHDDVYGR L

>accession|NP_851341.1|Putative lactotransferrin [Bos taurus]
[Bos taurus]
MKLFVPALLSLGALGLCLAAPRKNVRWCTISQPEWFKCRRWQWRMKKLGAPSITCVRRAF
ALECIRAIAEKKADAVTL DGGMVFEAGRDPYKLRPVAAEIIYGTKE SPQTHYYAVAVVKKG
SNFQLDQLQGRKSCHTGLGRSAGWIIPMGILRPYLSWTESLEPLQGAVAKFFSASCVPCI
DRQAYPNLCQLCKGEGENQCACSSREPYFGYSGAFKCLQDGAGDVA FVKETT V FENLPEK
ADRDQYELLCLNNSRAPVDAFKECHLAQVP SHAVVAR SV D GKEDLIWKLLSKAQEKFGKN
KRSRFQLFGSPPGQRDLLFKDSALGFLRIPSKVDSALYLGSRYLTTLKNLRETAEEVKAR

YTRVWCAVGPPEEQKKCQWSQQSGQNVTCATASTDDCIVLVLKGEADALNLDGGYIYT
AGKCGLVPVLAENRKSSKHSSLDVLRPTEGYLAVAVVKKANEGLTWNSLKDKKSCHTAV
DRTAGWNI PMGLIVNQTGSCAFDEFFSQSCAPGADPKSRLCALCAGDDQGLDKCVPNSKE
KYYGYTGAFRCLAEDVGDVAFVKNDTVWENTNGESTADWAKNLNREDFRLLCLDGT
TRKPV
TEAQSCHLAVAPNHAVVSRSDRAAHVKQVLLHQALFGKNGKNC PDKFCLFKSETKNLLF
NDNTECLAKLGG RPTYEEYLGTEYVTAIANLKKCSTSPILLEACAF LTR

>accession|NP_851372.1|Allergen casein alpha s1 [Bos taurus]
MKLLILTCLVAVALARPKHPIKHQGLPQEVLNENLLRFFVAPFPPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAEISISSEEIVPNSVEQKHQKEDVPSERYLGYLEQLLRLKPKY
VPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>accession|AAP37482.1|Allergen allergen Bet v 1x [Betula
pendula]
MRVFNKGETTSLIPLARLFK

>accession|AAP37470.1|Putative ENSP-like protein [Hevea
brasiliensis]
MEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNFGDSNSDTGGKAAAFYPLNPPYG
ETFFHIRSTGRYS DGRLIIDFIAESFNLPYLSPYLSSLSGNFKHGADFATAGSTIKLPTTI
IPAHGGFSPFYLDVQYSQFRQFIPRSQFIRETGGIFAELVPEEYFYEKALYTFDIGQNDL
TEGFLNLTVEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPWAE
KDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYSLFSEPEKHGFEF
PLITCCGYGGKYNFSVTAPCGDVTADDTGKIVVGCACPSVRVNWGDGAHYTEAANEYFF
DQISTGAFSDPPVPLNMACHKTESLRTLASV

>accession|AAP37412.1|Putative venom serine protease precursor
[Polistes dominulus]
MNCGKIILLFITIIGVAKSREENCKCGWDNPSRIVNGVETEINEFPMVARLIYPSGMYC
GGTIITPQHIVTAAHCLQKYKRTNYTGIHVVVGEHDYTTDTETNVTKRYTIAEVTIHPNY
NSHNNDIAIVKTNERFEYSMKVGPVCLPFNYMTRNLNVTALGWGKLRYNQNSKVLRL
KVDLHVITREQCETHYGAAIANANLLCTFDVGRDACQNDSSGGPILWRSPTTDNLILVGVV
NFGRTCADDAPGGNARVTSFMEFIHNATIGETYCKAD

>accession|AAM54365.1|Putative 2S albumin seed storage protein
[Juglans nigra]
RHEARKCIFHTFSLTMARLATLAALLVALLFVANAAAFRTTITMEIDEDIDNPRRRGEG
CQEIQRQQNLNHCQYYLRQQSRSGGYDEDNQRQHFRQCCQQLSQIEEQCQCEGLRQAVR
RQQQQQLRGEEMEMVQSARDLPKECGISSQRCEIRRSWF

>accession|AAM54366.1|Putative vicilin seed storage protein
[Juglans nigra]
GRDRQDPQQYHRCQRRCCIQEQSPERQRQCQQR CERQYKEQQGRERGPEASPRRESKGR
EEEQQRHNPYYFHSQSIRSRHESEEGEVKYLERFAERTELLRGIENYRVVILDANPNTFM
LPHHKDAESVIVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATEYVINQDSNERLEM
VKLLQPVNPNPGQVREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDRLERFFDQEQREG
VIIRASQEKLRALSQHAMSAGQRPWGRSSGGPISLKSERPSYSNQFGQFFEACPEEHRQ
LQEMDVLVNYAEIKRGAMMVPHYNSKATVVVVVVEGTGRYEMACPHVSSQSFEDQGRREQ
EEEESTGRFQKV TARLARGDIFVIPAGHPAITASQENLRLLGFGINGENNQRNFLAGQ
NSIINQLEREAKELSFNMPREEIEEIFESQMESYFVPTERQSRRGQGRDHPLASILGF
AF

>accession|AAM78596.1|Allergen allergen Ara h 2 isoform [Arachis
hypogaea]

LTILVAPALFLLAHASARQQWELQGDRCQSQLERANLRPCEQHLMQKIQRDEDSYGRD
PYSQDPYSPSPYDRRDPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRMCCEALQQ
IMENQSDRLQGRQQEQFKRELRLNPQQCGLRAPQRCDLEVESGGRDRY

>accession|AAP47226.1|Putative putative lipid transfer protein
[Helianthus annuus]
MKGTSMGVAILAMIVMAQLMVHPSVAITCNDVTGNLTPCLPYLRSGGKPTPACCAGAKKL
LGATRTQADRRTACKCAKTAAPQLKVRPDMASSLPGKCGISTSIPINPNVNCNTIP

>accession|CAD92666.1|Allergen profilin [Cucumis melo]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIIEQGL

>accession|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]
AGPFRFPRCRKEFQQAQHLRACQQLHKLQAMQSGSGPQPQGPQRPLLLQCCNELHQEE
PLCVCPTLKGASKAVKQQIRQQGQQGQQGQQQLQHEISRIYQTATHLPRVCNIPRVSICP
FQKTMGPS

>accession|P81729.1|Putative Chitin-binding allergen Bra r 2
[Brassica rapa subsp. rapa]
QAGGQTCAGNICCSQYGYCGTTADYCSPDNNCQATYHYYNPAQNNWDLRAVSAYCSTWDA
DKPYSWRYGWTAFCGPAGPRCLRTNAAVTVR

>accession|P82946.1|Putative Major pollen allergen Dac g 4
[Dactylis glomerata]
DIYNYMEPYVSKVDPTDYFGNEQARTAWVDSGAQLGELSYGVLFNIQYVNYWFAP

>accession|P83507.1|Putative Major urinary protein (MUP)
(Allergen Cav p 1) [Cavia porcellus]
SEINGDWNTIALSAD

>accession|AAP87281.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVVGYMGGNNLPPVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
LFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAFATFDNGRITYLSNLI
QHVKGKTPKRPNRAIETYLAFMFDENKKQPEVEKHFGLFFPDKRPHYNLNFGAENWDIS
TEHNATILFLKSDM

>accession|AAP94213.1|Putative Humj1 [Humulus japonicus]
MKNLQHHNKIITFKTPDDSTTLELNHISLPHYHWEQCLDLKTGEIYYINWRNGMKAKEDP
RTTITEYNSNGSNGDYYYSEEDSSYDSESSSESSPPATTRESQYRGAEKDHVLVVG
CKSCFMVFPKQVQEQPCCKGQPLHFDRSQSGSQ

>accession|AAP96759.1|Allergen group 1 allergen Dac g 1.01
precursor [Dactylis glomerata]
IPKVPPGNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVDKAPFNGMTGCGNT
PIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDNEEPIAPYHFDLSGHAFGSMKKG
EQKLRSALELELQFRRVKCKYPEGTKLTFHVEKGSNPNYLALLVKYVDGDGDVVAVDIKE
KGKDKWIALKESWGAIWRVDTPKLTGPFTVRYTTEGGTKSEVEDVIPEGWKADTSYEA

>accession|P81943.3|Putative RecName: Full=Allergen Api g 5;
AltName: Allergen=Api g 5 [Apium graveolens]
LPNPSGFVTCLSSISKS SVYTPAINLKAVIADPVAKTAVVQAGATLGEVYYXIIYARVLWV
GNTTQKLEWIRSLHDYQSSFFPFFSA

>accession|AAQ08190.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
IRTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAQ08947.1|Allergen allergen Fra e 1.0101 [Fraxinus
excelsior]
EDVPQPPVSLFYVQGQVYCDTCRAGFITELSEFIQGAGVRLQCKDKENGVTFTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEVLPKCPQVYNKLGMYPPNM

>accession|AAQ10268.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
ILTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAQ10271.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
IWTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAQ10274.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
WTVSCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>accession|AAQ10276.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
SYCDTCRAGFITELSEFIPGAGVRLQCKDGENGNIFFTEVGYTRAEGLYSMLVERDHKNE
FCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPLGFFKKEALPKCAQVYN
KLGMYPPNM

>accession|AAQ10277.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
QAVYCDTCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>accession|AAQ10278.1|Allergen major pollen allergen Ole e 1
[Olea europaea]
QDSYRDTCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>accession|AAQ10279.1|Allergen major pollen allergen Ole e 1

[*Olea europaea*]
IRTVSQDTCCARFITEELSEFIPGAGVRLQCKDGENGNVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPDDM

>accession|AAQ10280.1|Allergen major pollen allergen Ole e 1
[*Olea europaea*]
IRTVFRVTCRARFITEELSEFIPGAGVRLQCKDGENGNVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPDDM

>accession|AAQ10281.1|Allergen major pollen allergen Ole e 1
[*Olea europaea*]
QDSYSGHCRRARFITEELSEFIPGAGVRLQCKDGENGNVTFTEVGYTRAEGLYSMLIERDHK
NEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQV
FNKLGMYPDDM

>accession|AAQ24541.1|Putative Blo t 1 allergen [*Blomia
tropicalis*]
MKFLLVAALCALVAIGSCKPTREEIKTFEQFKKVFVKVYRNAEEEEARREHHFKEQLKWVE
EHNGIDGVEYAINESDMSEQEFSEFHLGGGLNFTYMKMEAAKEPLINTYGSLLPQNFQDWR
QKARLTRIRQQGSCGSCWAFAAAGVAESLYSIQKQOSIELSEQELVDCTYNRYDSSYQCN
GCGSGYSTEAFKYMIRTLGLVEEENYPYNMRTQWCNPDVEGQRYHVSGYQQLRYQSSDEDV
MYTIQQHGPVVIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVWGTQGVVDYWIIR
NSWGTGWGNGGYGYVERGHNSLGINNFVITYATL

>accession|AAQ24542.1|Putative Blo t 3 allergen [*Blomia
tropicalis*]
MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVDGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAACHCIQGLSASSLTIRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPEQGSQDPKASSEVLITGWGTLSSGASSLPTKLQKVTV
IVDRKTCNANYGAVGADITDNMFCAGILNVGGKDACQGDSSGPPVAANGVLVAVSWGYGC
AQAKYPGVYTRVGNYSWIKGKGVVPV

>accession|AAQ24543.1|Allergen Blo t 4 allergen [*Blomia
tropicalis*]
MIVELIVFSLALTIPYQTLASSPYSDPHFQHNRKVITHLMQWKVVDIADECERFLGPYGY
GGVQVSPVNEHASLDRHPWYELYQPVSYRIVSRSGTESQFRDMVHRCNKAGVRIYVDVVL
NHMTGPQSGVGIDGTHYDGNSMQYPGIPFGPNDFHGHECPTSNLDIQNYDDPTQARNCR
LSGLRDLKQSADYVRTKQADFLNHLIDIGVAGFRFDASKHMWPGDLQAIYSKLHHLNEKY
FPSNSNPFYHEVIYSNNNAISISDYTKLGRSIEFHYYHEL CNVIRGNNKLKWLHNFQGP
WGMVPND DALIMVDSHDLQRGHTGQLGLNINYFESRLLKVATAFMLAWPYGIPRVMSSYR
WNQKIVNGKDENDWIGPPADGSGSILSVKPNSDLTCNQEWICEHRWKQIYNMVQFRNTAG
DEPVKNWWDNGDYQIAFSRGAKTFAINLQNGQHLKQNLHTGLPSGNYCNLVTGNVHNGK
CSGQMVHVDGSGHAMISIGANADDHL

>accession|AAQ24545.1|Putative Blo t 7 allergen [*Blomia
tropicalis*]
MKSTIVLLACFVGIASFDDAANQLVDQVVDALKTQKGFDSMHVKGHTTELDQKIGLVTFK
GKLIKDATVTGLSRAAGDSVDKIHSNIELIVGLIQSHLTLDVDIGKLQIMFSAGLAAEG
PSVKDFHIDEFEAVRIHVHGLGPLDPFIDIIGDAIXLAXSQVREMISXMMRPIIESEVK
KFLQNTTPAPAF

>accession|AAQ54603.1|Putative Gly d 2.03 [*Glycyphagus
domesticus*]

MMKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ55550.1|Allergen allergen Lep d 12 [Lepidoglyphus
destructor]

MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTHATHEETTSTQHHHEEVT
TQTPHHEEKTTEETHHSDDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWY
ITVMPCSIGTKFDPISRNCVLDN

>accession|AAQ73484.1|Putative type 2 allergen Lep d 2.013
[Lepidoglyphus destructor]

MMKFIVL FALIAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73486.1|Putative type 2 allergen Lep d 2.023
[Lepidoglyphus destructor]

MMKFIVL FALDAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73487.1|Putative type 2 allergen Lep d 2.024
[Lepidoglyphus destructor]

MKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGQSVTLDAKFVANQD
SAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V T
AE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73488.1|Putative type 2 allergen Lep d 2.025
[Lepidoglyphus destructor]

MMKFIVL FALVAVASAGNMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73489.1|Putative type 2 allergen Lep d 2.031
[Lepidoglyphus destructor]

MMKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGGFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73490.1|Putative type 2 allergen Lep d 2.035
[Lepidoglyphus destructor]

MMKFIVL FALNAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73491.1|Putative type 2 allergen Lep d 2.039
[Lepidoglyphus destructor]

MMKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP I K K G D P I D F K Y S G T I P A I T P K I K A E V
TAE L I G D H G I L A C G T V N G Q V E

>accession|AAQ73492.1|Putative type 2 allergen Lep d 2.042
[Lepidoglyphus destructor]

MMKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ

DSAKATIKVLAKVVGTQIQVPGFDTDGCKIIKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIIGDHGILACGTVNGTVE

>accession|AAQ73493.1|Putative type 2 allergen Lep d 5.02
[Lepidoglyphus destructor]
MTGVKTHLEHELKRTDLNFLEKFNLDLDEITATLNVLTKELETVQKHVKAVESDEVDVAIPN
PDEFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFI
DSAKGHFERELKRADLNLAEKFNFEFESALSTGAVLHKDLTALATKVKAJETK

>accession|AAQ73494.1|Putative type 2 allergen Lep d 5.04
[Lepidoglyphus destructor]
MTGVKTHLQHELKRTDLNFLEKFNLDLDEITAPLNVLTKELETVQKHVKAVESDEVAIPND
EFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFIDS
AKGHFERELKRADLNLAEKFNFEFESALSTGAVLHKDLTALATKVKAJETK

>accession|1UHG_D|Allergen Chain D, Crystal Structure Of S-
Ovalbumin At 1.9 Angstrom Resolution [Gallus gallus]
GSIGAASMEFCFDVFKELKVHHAENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRFD
KLPFGDXIEAQCGTSVNVHSSLRDILNQITKPNVYSFSLASRLYAEERYPILPEYLQC
VKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQXPXSVDSQTAMVLVNAIVF
KGLWEKAFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPPFAXGTMS
MLVLLPDEVSGLEQLESIIINFEKLTETWSSNVMEERKIKVYLPRMKMEEKYNLTSVLMAM
GITDVFSSANLSGISSAEXLKISQAVHAAHAEINEAGREVVVGXAEAGVDAASVSEEFRA
DHPFLFCIKHIATNAVLFFGRCVSP

>accession|AAP15199.1|Putative profilin-like protein [Humulus
scandens]
MSWQAYVDDHLMCEIDGQHLTAAAIIGHDGSVWAQSSTFPQFKPEEIAAIMKDFEEPGLS
APTGLHLGGIKYVMVIMGEQGAVIRGKKGAGGITVKKTGAAMIIGIYDEPLTPGQCNMIVE
RLGDYLIDQNL

>accession|AAP15200.1|Putative profilin-like protein [Humulus
scandens]
MSWQAYVDDHLMCEIDGNHLSAAAIIGHDGSVWAQSAAFPQLKPEEVTGIMNDFNEPGTL
APTGLYLGGTKYMVVIQGEPEGAVIRGKKGAGGVTIKKTSQLIIGVYDEPMTGQCNMIVE
RLGDYLIDQGL

>accession|AAP15201.1|Allergen profilin-like protein [Ambrosia
artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVVIQGEPEGAVIRGKKGPGGVTIKKTSMALIIGIYDEPMPGQCNMIVE
RLGDYLLEQGF

>accession|AAP15202.1|Allergen profilin-like protein [Ambrosia
artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVVIQGEPEGAVIRGKKGPGGVTIKKTMSLIIGIYDEPMTGQCNMLVE
RPGDYLLEQGF

>accession|AAP15203.1|Allergen profilin-like protein [Ambrosia
artemisiifolia]
MSWQAYVDEHLMCDIEGTGHHLTSAAILGHGDTVWAQSSNFPQFKPEEMKGIITEFDQAG
TLAPTGMFIAGAKYMLVQGEQGAVIRGKKGAGGICIKKTGQALVMGIYDEPVAPGQCNMV
VERLGDYLIDQGM

>accession|AAQ83588.1|Allergen allergen Fra e 1 [Fraxinus excelsior]
MEDVPPQPPVSQFHIIQGQVYCDTCRARFITKLSEFITGASVRLQCRDKENGDVTFTEIGYT
RGEGLYSMFVERDHKNEFCEITLLSSGRKDCNEIPIEGWVKPSLKFILNTVNGTTRTINP
LGFFKKEALPQCAQVYNKLGMYPPNM

>accession|AAQ91847.1|Allergen Ara h 8 allergen [Arachis hypogaea]
MGVFTFEDEITSTVPPAKLYNAMKDADSITPKIIDDVKSVEIVEGNGGPGTIKKLTIVED
GETKFIHLKVESIDEANYAYNYSVVGVALPPTAEKITFETKLVEGPNGGSIGKLTLLKYH
TKGDAPDEEELKKGKAKGEGLFRAIEGYVLANPTQY

>accession|AAN11300.1|Putative 29 kDa IgE-binding protein [Candida albicans]
MVKVLLALTSYNETFYSDGKKTGVFVVEALHPFEVFRKKGYEIQLASSETGTFGWDDHSV
PDFLNGEDKEIFDNVNSEFNVALKNLKKASDLDPNDYDIFFGSAGHGTLFDYPHAKDLQK
IATTVYNKGGVVSAVCHGPAIFENLNDPKTGEPLIKGKITGFTDIGEDILGVTDIMKKG
NLLTIKQVAEKEGATYIEPEGPWDNFTVTDGRIVTVGNPQSAVKTAEDEVIAAFECN

>accession|AAN18044.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
IGQVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAO22132.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
SDSYCDTCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCNEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPPTWNVTI

>accession|AAO22133.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
RTVTGYCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTRAEGLYSMLVERDHKN
EFCEITLISSGRKDCNEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQVY
NKLGMYPPTNHGMSR

>accession|AAO33897.1|Allergen Ole e 3 allergen [Olea europaea]
EHERIFKRFDAGDKISSSELGETLPLGVSITLLEEIQRMMAEIDTDGDGFL

>accession|AAO73464.1|Allergen HDM allergen [Dermatophagoides pteronyssinus]
MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSESVTEMNKKRDSSELAKLRKLLLEDVHMESEETAHHLRQKH
QAAVHEMQDQLDQLQKAKNKSDKEKQKQFAEVFELLSQLETANKEKLTALKSVEKLEYTV
HELNIKIEEINRTVIELTSHKQRLTQENTELIKEVHEVKLQLDNANHLKQOIAQQLEDTR
HRLEEEERKRSSLENHAHTLEVELESKLVQLDDESEARLELERQLTKANGDAASWKSKEYE
AELQAHADVEEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAA
AHAQQLEKRVQLEKINLDLKDKEEVTMLMEQAQKELRIKIGELQKLQHEYEKVRDQRD
QLARENKLLTDDLAEAKSQLNDAHRRHEQEIEIKRLENERDELSSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYEKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTETIARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITELQAHYDEVHRQLQQAQVAVDQLGVTQ
RRCQALQAELEEMRIALEQASRAKRQAEQLHEEAVRVNELTTINVNLSAKSKLESEFS
ALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLQEVRTLHV
RIEEVEANALAGGKRVIKLESRIIRDVEIEVEEERRRHAETEKMLRKKDHRVKELLLQNE

EDHKQIQLLQEMTDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVFTTQEETNY

>accession|AA091800.1|Allergen NADP-dependent mannitol
dehydrogenase [*Alternaria alternata*]
MPITVPQATELKDLSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKCQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFCARAVGLHFREKRTGSLVITSSMSGHIANFPQEASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVQDIQKLWHSMPMGRDAKATELKG
VYVFASDASSYCTGSDLLIDGGYCVR

>accession|AA091801.1|Allergen NADP-dependent mannitol
dehydrogenase [*Davidiella tassiana*]
MPGQQATKHESLLDQLSLKGKVVVVTGASGPKGMGIEAARGCAEMGAAVAITYASRAQGA
EENVKELEKTYGIKAKAYKCQVDSYESCEKLVKDVVADFGQIDAFIANAGATADSGILDG
SVEAWNHVQVDLNGTFHCAKAVGHHFKERGTGSLVITASMSGHIANFPQEQTSYNVAKA
GCIHMARSLANEWRDFARVNSISPGYIDTGLSDFVPKETQQLWHSMPMGRDGLAKELKG
AYVYFASDASTYTTGADLLIDGGYTTR

>accession|AAP57094.1|Putative arginine kinase [*Dermatophagoides
farinae*]
MVDQAVIDKLEAGFQKLQSSAECHSLLKYLTRNVLDACKGRKTGMGATLVDDVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPVIEDYHKGFKPTDKHPQTDGFDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYFPNCLTEAQYKEMEKKVKGQLNSFEGELKGTYYPLLGMKATQQQ
LIDDHFLFKEGDRFLQAANACRFWPVGRGIFHNDNKTFLIWVNEEHLRIISMQKGGDLK
QVFSRLINGVNHIEKKLPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKXLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRMRGLTEYQAVKEMQDGIILELIKIEKSM

>accession|AAP35065.1|Allergen Der f Mal f 6 allergen
[*Dermatophagoides farinae*]
MALPRVFFDIAADNQPLGRIVIELRSDVVPKTAENFRALCTGEKGFVKSSSFHRIIPNF
MIQGGDF'TNHNGTGKSIYGNKFADENFTLQHTGPGIMSMANAGPNTNGSQFFITTVKTT
WLDGKHVVFGSVVEGMDIVKKVESYGSQSGKPSKKVTIANCGQL

>accession|AAP35069.1|Putative Blo t 8 allergen [*Blomia
tropicalis*]
MAPLKIGYWDIRGFAEPIRMLLKHLNIEFEETRYGFGNDSEESFPNRDEWLAEKFTLGFE
FPNLPYLFDFGDFKMTESVAILKRLARANGMIATTEPALSYSSEMIEAMVIDIRNRLVYVIY
AENSGTPEEFEQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
VFKSTPIFEKFAKVS DYMKRFEELPSLKEYIASDEHRSASCLSPFARIGHRWAKE

>accession|AAP35073.1|Allergen Der f 2 allergen
[*Dermatophagoides farinae*]
MVSLLVAAVVADQVDVKCANNEIKKVMVDGCHGSDPCI IHRGKPF'TLEALFDANQNTKT
AKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKQQYDAKYTWNVPKIAPKSENVVTVK
LVGDNGVLACAIATHGKIRD

>accession|AAP35075.1|Allergen Der f 1 allergen
[*Dermatophagoides farinae*]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTTAIAVI
IGIKDLRAFQHYDGRTIIQHDLIS

>accession|AAP35077.1|Allergen Der f 7 allergen
[Dermatophagoides farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVDPHADKFER
HVGILDFKGEELAMRNI EARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHP'TTHVISDIQDFVVALSLEIPDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSVDVLTAFQD'TVRKEMTKVLAPAFKRELEKN

>accession|AAP35078.1|Allergen Der f 13 allergen
[Dermatophagoides farinae]
MASIEGKYKLEKSEKFDEFLDKLGVGFMVKTAACKTLKPTFEVAIENDQYIFRSLSTFKNT
EAKFKLGEEFEEDRADGKRKVTVIQKEGDNKFVQTQFGDKEVKI IREFNGDEVVVTASCD
GVTSVRTYKRI

>accession|AAP35082.1|Allergen Der f Gal d 2 allergen
[Dermatophagoides farinae]
MKFFLLSFVLMVVAATATYAAHVGSRSRDNNNKPVPAEGFAKASNEFGFHLLEKVIQHR
SSSGSRGSSENVLFSPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNGGEYQTVAN
SVKQIQNQINQSDQSNQFDWGNMLMVDQQMPVKDQYKKIIEQYYDGQVMSVDFRKEKSNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGH
GQYKQVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPRENYDLDKIRQSIN
STFVDEIVGQITGSQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTEADLSGITDKKPM
KIDDAIHKAKLILNEQGT'EAGAGTYIQMAVLSALETSHTFRFDHDFMYFIRHLP'TGQILF
LGEIHDF

>accession|AAR17475.1|Putative elongation factor 1 beta-like
[Penicillium citrinum]
MGFTDFVSDAGLSLANNYLATRSYIVGHAPSQADVVTYKAFTASPDAEKYPHVARWYKHI
ASYESEFPTLPGDASKAFTAYGPEGSEASANPKDKPAEEEEEEEDLFASDSEDEDPAVVAE
RNKNLEEYKKAAGPKPAKSLVTLEVKPWDETNLEEELEANVRAIEMDGLVWGASKF
VAVGFGIKKLQINLVVEDEKVVSTDELQAQIEEDEDHVQSTDVAAMQKL

>accession|AAR21071.1|Putative PR5 allergen Jun r 3.1 precursor
[Juniperus rigida]
MARVSELALLLVATLAI'SLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGQ'TWTLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEY'TQSDQDYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR21072.1|Putative PR5 allergen Jun r 3.2 precursor
[Juniperus rigida]
MARVSELALLLVATLAI'SLHMQEAGAVKFDIRNQCGYTVWAAGLPGGGKRLDQGQ'TWTLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEY'TQSDQDYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR21073.1|Putative PR5 allergen Cup s 3.1 precursor
[Cupressus sempervirens]
MARVSELALLLVATS AISLHMQEAGAVKFDIKNQCRYTVWAAGLPGGGKRLDQGQ'TWTVN
LAAGTASARFWGRTGCTFDASGKGSRSRSDCGGQLSCTVSGAVPATLAEY'TQSDQDYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR21074.1|Putative PR5 allergen Cup s 3.2 precursor
[Cupressus sempervirens]
MARVSELALLLVATLAI'SLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGQ'TWTVN

LAAGTASARFWGRTGCTFDASGKSGCRSGDCGGQLSCTVSGAVPATLAEYEQSDKDYYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR22488.1|Allergen allergen Mal d 3 [Malus x
domestica]
MACSAVIKLALVVALCMAVSVVAHAITCGQVTSSLAPCIGYVRS GGAVPPACCNGIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNPYKISTSTNCATVK

>accession|1LLT_A|Allergen Chain A, Birch Pollen Allergen Bet V 1
Mutant E45s [Betula pendula]
GVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAD21706.2|Putative Cu /Zn super-oxide dismutase
[Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGP TTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPG DENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|AAR92223.1|Allergen phytocystatin [Actinidia
deliciosa]
MVPKPLSLLLFLLLALSAAVVGGRKLVAAGGWRPIESLNSAEVQDVAQFAVSEHNKQAND
ELQYQSVVRGYTQVVAGTNYRLVIAAKDGAVVGNYEAVVWDKPWMHFRNLTSFRKV

>accession|P83542.1|Putative Phospholipase A1 (Allergen Pol g 1)
[Polistes gallicus]
GITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFKES

>accession|AAS02108.1|Putative FAD-linked oxidoreductase BG60
[Cynodon dactylon]
MARSRAFAFALLICAVAASCHVALSAPPPYAKQVERDFLTCLTKDIPPRQLYAKSSPAYA
SVWSSTVRNIKFLSDKTVKPLYIITPTNASHIQAAVVCGRRHGMRI RVRSGGH DYEGLSY
RSEKPEPFAVVD MNKMR AVSIDGKAATAWVD SGAQLGDLYYGI AKASPKLGFPAGVCTTI
GVGGHFSGGGFGMLLRKYGTAADNVIDAKVVDAQGRLLDRKAMGEDHFWAIRGGGGESFG
IVASWQVKLLPVPPKVTVFQVHKGIKEGAIDLVTWKWQTVAPALPDDL MIRIMAMGQGAMF
EALYLGTC KDLVLLMTARFPELGMNATHCKEMTWIESVPYIPMGPKGTVRDLLNRTSNIK
AFGKYKSDYVLEPIPKSDWEKIFTWLVKPGAGVMIMDPYGGGIASVPESATPFPRRSGLV
FNIQYVVYWFGE GAAALPTQWTRDIYDFMTPYVSKNPRQAYVNYRDLDLGVNQVGVNST
YASGKVWGEKYFKGNFERLARTKGKIDPEDYFRNEQSIPPLL

>accession|CAE85467.1|Allergen putative latex allergen hev b 7.02
[Hevea brasiliensis]
ATGSTTLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDL DGPDARIADYFDIIAGTS
TGGLIT TMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEYL
RELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
PVLLPAHSFTTEDDKNIHTFELIDGVAATNPTLLAL THIRNEIRQNPRFIGANLTESK
SRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSALF
KSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTRLLLEKQESRINLDTGRLESI
PGASTNEAAITKFAKLLSEERKLRQLK

>accession|CAF25232.1|Putative Vicilin [Pisum sativum]
SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLL EYKSKPHTLFL
PQYTDADFILVVLSGKATLTVLKSNDNRNSFNLERGDAIKLPAGTIAYLANRDDNEDLRLV

DLAIPVKNKPGQLQSFLLSGTQNQPSSLGFSKNILEAAFNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKSVSSESGPFNLRSRNP IYSNKF
GKFFEITPEKNQQLQDLDFVNSVDIKEGSLLLPNYNSRAIVIVTVTEGKGFELVQQRN
ENQ GKENDKEEEQEETSQVQLYRAKLSPGDVFVIPAGHPVA INASSDLNLIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSHEVDRLLNQKQSYFANAQPLQRE

>accession|CAF25233.1|Putative Vicilin [Pisum sativum]
SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLLEYKSKPRTLFL
PQCTDADFILVVLGKATLTLVLSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLTIPVKNKPGQLQSFLLSGTQNQPSSLGFSKNILEAAFNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKSVSSESGPFNLRSRNP IYSNKF
GKFFEITPEKNQQLQDLDFVNSVDIKEGSLLLPNYNSRAIVIVTVTEGKGFELVQQRN
ENQ GKENDKEEEQEETSQVQLYRAKLSPGDVFVIPAGHPVA INASSDLNLIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSHEVDRLLNQKQSYFANAQPLQRE

>accession|Q9NJA9.1|Putative Paramyosin (Allergen Ani s 2)
[Anisakis simplex]
MSDTLYRSPSMAIRSSSTADMGALTSMSVADLGLSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLLEESQLENEEDAMNVLRK
KHQDVCLDYTEQIEQLQKNSKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVKYQLAQOLEE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWKSK
FDAEVALHHEEVEDLRKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAE LQKMKQLYEKAVEQ
KEALARENKLLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEARRDA
EARAQRALAE LQDVRIEMERRLQEKKEEMEALRKS MQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNRANLEAQKTIKKQSEQIQQLQANLEDTQRQLQOTLDQYAL
AQRKISALSAELECKTALDNAIRARKQAEADLEEAEHVRI SDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHS MKIDALRKSLEE QVKQL
QVQIQEAEAAALLGGKRVI AKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDTADRMLEKLN IQKRLGAEAMTMQNLQRVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>accession|Q25632.1|Allergen RecName: Full=Tropomyosin; AltName:
Full=MOv-14; AltName: Full=Ov-tmy-1 [Onchocerca volvulus]
MDAIIKKMQAMKIEKDNALDRADAAEEKVRQMTEKLERIEEELRDTQKMMQTENDLVKA
QEDLSVANTNLEDKEKKVQEAEEVAALNRRMTLLEEELERAEERLKIATDKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQEKEAQLLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENEIVELEEEELRVVGNLKSLEVSEEKALQREDSYQEQIRTVSVRLKEAETRAE
FAERSVQKLQKKVDRLEDELVHEKERYKNISEELDQTFQELSGY

>accession|AAS47035.1|Allergen major cherry allergen Pru av
1.0201 [Prunus avium]
MGVFTYSDESTSVIPPRLFKALVLEADTLIPKIPQSVKTAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYNYTLVEGDALSDKIEKITYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVKAGKEKATGLFKLIENYLAANPDACN

>accession|AAS47036.1|Allergen major cherry allergen Pru av
1.0202 [Prunus avium]
MGVFTYADESTSVIPPRLFKALVLEADTLIPKIPQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIIKSTSN
YHTTGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>accession|AAS47037.1|Allergen major cherry allergen Pru av
1.0203 [Prunus avium]

MGVFTYADESTSVITPPRLFKALVLEADTLIPKIA PQSVKGAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIKSTSN
YHTTGDVEIKEEDVRAGKEKATGLFKLIENYLVANPDAYN

>accession|CAF32566.2|Allergen Group 4 allergen-like [Phleum
pratense]

YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIHKASTVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLIRVIAQGPTATFEAMYLGTCTLTTPMSSKFPPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|CAF32567.2|Allergen Group 4 allergen-like [Phleum
pratense]

YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIHKASPVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLIRVIAQGPTATFEAMYLGTCTLTTPMSSKFPPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|AAS67041.1|Putative venom phospholipase A1 1 precursor
[Polistes dominulus]

MNFKYSILFICFVKVLDNICYAADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNG
IILKKEILKNYDLFQKSQISHQIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWK
KGACNAFASTNDVLGYSQAVGNTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTS
GFAGKEVQRLKLGKYKEIIGLDPAGPSFLTNTKCPNRLCETDAEYVQAIHTSAILGVYYNV
GSVDFYVNYGKSQPGCSEPCSHTKAVKYLTECIKRECCCLIGTPWKSYPSTPKPISQCKR
DTCVVCVGLNAQSYPAGKSFYVPVVDKDAPYCHNEGIKL

>accession|AAS67042.1|Putative venom phospholipase A1 2 precursor
[Polistes dominulus]

ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNTKCPNRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPC
SHTKAVKYLTECIKRECCCLIGTPWKSYPSTPKPISQCKRDTVCVGLNAQSYPAGKSFYV
PVEKDAPYCHNEGIKL

>accession|AAS67043.1|Putative venom phospholipase A1 3 precursor
[Polistes dominulus]

ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNTKCPDRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPC
SHTKAVKYLTECIKRECCCLIGTPWKSYPSTPKPISQCKRDTVCVGLNAQSYPAGKSFYV
PVDKDAPYCHNEGIKL

>accession|AAS67044.1|Putative venom phospholipase A1 4 precursor
[Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNEFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVGVYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLT SKCPDRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPC
SHTKAVKYLTECIKRECCLIGTPWKS YFSTPKSISQCKRDTCVCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEGIKL

>accession|AAS75297.1|Allergen major allergen Alt a 1 subunit
[Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYNSLGF
NIKATNGGTLDFTC SAQADKLEDHKWYSCGENSFMNFSFGSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGGNGPKDFVCQGVADAYITLVTLPKSS

>accession|BAD13150.1|Putative putative polcalcin Phl p 7
(Calcium-binding pollen allergen Phl p 7) (P7) [Oryza sativa
(japonica cultivar-group)]
MAAASSADMERIFKRFD TNGDGKISLSELTDALRTL GSTSADEVQRMMAEIDTDGDGFID
FNEFISFCNANPGLMKDVAKVF

>accession|AAS75831.1|Putative group 2 allergen Sui m 2
[Suidasia medanensis]
MKFIILAMFVAVAAAGEMKFD CGHGEVKKLLVSDCSGDYCI IHK GKLSMEAD FVANQD
SPTAVIKISAKVNGVELQVPGIETNGCHMKCPLVKGQSYQFKYDLVIPQILPNVKADVT
ASLTGAHGLLACGT VHGEVQN

>accession|AAS77253.1|Putative Fel d 4 allergen [Felis catus]
MKLLLLLCLGLILVCAHEENVVRSNIDISKISGEWYSILLASDVKEKIEENGSMRVFVEH
IKALDNSSLSFVFHTKENGKCTE IFLVADKTKDG VYTVVYDGYNVFSIVETVYDEYILLH
LLNFDKTRPFQLVEFYAREPDVSQKLKEKFKYCQEHGIVNILDLTEVDRCLQARGSEVA
QDSSVE

>accession|CAG24374.1|Allergen Group 1 allergen-like [Phleum
pratense]
IPKVP PGP NITATYGGKWLDAKSTWYGKPTAAGPKDNGGACGYKDVKPPFSGMTGCGNT
PIFKSGRGC GSCFEIKCTKPEACSGEPVVVHITDDNEEPIAAYHFDLSGIAFGSMAKKGD
EQKLR SAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNPNYLALLVKFVAGDGDVVAVDIKE
KGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGGTKGEAKDVIPEGWKADTCYESK

>accession|P83834.1|Allergen Pathogenesis-related protein (PR-1)
(Allergen Cuc m 3) [Cucumis melo]
DFVDAHNAARAQVGVGPVHWTVDAYARQYANDRNLVHSATR

>accession|AAS93669.1|Putative Sar s 1 allergen Yv5032C08
[Sarcoptes scabiei type hominis]
MSFIRFFSIFLLCFV SFLVARI ECDEF EIKTFEQFKARFNKTYSNYFIETYRRRVFYRTL
KYVEENKHRGVSINAHADLT VNEFS AKYLSKAPKTEDLLDEYKLFSCDKFEGVKLGELDL
RKEGRVTKIREQLACGSCWAFSVTANVESLLLGSNCTR WSTNDWLSPQQLVDCASDHGCN
GEKTSTGLEYYQHKGIVKEGVYPYKARVGVCKHPCGPYYHIKSFCGISPPDPDQVKIALS
KTRSALSASII VYDVEHLKNYNGKLPLADDGKLIGEQLSHAINIVGYTQRNGVEVWIVRN
SWGETWGDHGYGYFKILPKRGVMGITRMVIVADLGKETVA

>accession|AAS93674.1|Putative Sar s 1 allergen SMIPP-C Yv4028C12
[Sarcoptes scabiei type hominis]

MERKQFNSLLYQLILSVAIITRGYYFETTPSIDDENVRLSDLDWIGEPDDSDFKLPDSFI
RKFKQDLMRDLNKKCRNHFSIIKLIHPGLQFCKVPKVYQALPTWFDLRNLELVTPTRDNS
TEKQCKASWAFGPIASLESAWLESHDRIASDAFSLSAQNLIIDCAGYQGCNGGVDVIEAFN
YLQEKGVVKEENYKYKGGKHACRWRLFYRRYKIKSYCAICPATVETIKKFLFKHKHTALTT
VISVRNLTAFAKNIDDEILYEDEGPSVQRRLVVNIGWRHDDATDRDYWVVKNSWGRKWMG
GGYGFVDAEENLFGILDQNYLLSVKDEVIPFEAEPDDS

>accession|AAS93675.1|Putative Sar s 1 allergen SMIPP-C Yv5009F04
[Sarcoptes scabiei type hominis]

MESKKFKSFLFQLIISAAIITRGYYFETTPSDAEENARLSDVRYTGEPPDDPKLPDSFI
QKFKKDLRELTRKCRKGFRQARLEHPELQFCKIPKVFQKLPKWFDLRNLELVTPTRDNS
TESKCKASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGCNGGVDVIEAFN
YMKHKGIVKEEFYKYRAKKHRCRKRRLRARRYKIRSYCAICPATIFTIKKFLFKHKHTALTT
VISVRNLTAFAKHIDDEILYEDEGTRVQRRLVVNIVGWRHDDATDRDYWVVKNSWGKKWGM
GGYGFVDAENNLPHILDHNYLVRVKEDVIPFENEPEDFE

>accession|AAS93676.1|Putative Sar s 1 allergen SMIPP-C Yv6018B11
[Sarcoptes scabiei type hominis]

LMRELTRKCRKGFRRARLEHPELQFCEIPKVFQKLPKWFDLRNLELVTPTRDNSTEKKCK
ASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGCNGGVDVIEAFNYMKHKG
IVKEEFYKYKAKKHHCRKRLRARRYKIRSYCAICPATIFTIKKFLFKLKTALTTVISVRN
LTAFAKNIDDEILYEDEGPRVQRRLVVNIVGWRHDDATDRDYWVVKNSWGKKWGMGGYGFV
DAENNPFHILDHNYLVRVKEDVIPFENEPEDFE

>accession|AAR98518.1|Putative major latex allergen Hev b 4
[Hevea brasiliensis]

MASLAYSFILSLFTFTLLNPVCTELDEYLFSGDGLYDAGNAKFIYPDKYLPSYHHPYG
TTTTFDYPTGRFSDGRTVVDFVAENVSLPRIPPFKNKEANFTYGANFASEGATASDSNPLI
DFRSQIRDFGELKLEWAVQLVNVTELARLKKAVYLIISFGADDYLNIEIPSEASREQLES
IVDVVLGNISDRIKELYDFGARKFVVENVAPLGLIPFIKQTSNSTLFLYELASLHAMKLP
QILEKIQDGYLFPEFNYTVFNFYGIKEIIDAPGEHGFKYGDIAACGNSTYRQACGFLD
YEFVCVGNKTEYLFFDGTHTNTDAANNLLAELMWDKESGFISPYGVKDFFPSPPTTIQTLT
EATALG

>accession|AAS98889.1|Putative allergen Pen m 2 [Fenneropenaeus
chinensis]

YNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>accession|AAS98890.1|Putative allergen Pen m 2 [Fenneropenaeus
chinensis]

YNLQARGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMLDGILELIKMEKEM

>accession|AAT00594.1|Allergen conarachin [Arachis hypogaea]

GNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIKVSKEHVQELTK
HAKSVSKKGSEEEEDITNPINLRDGEPLSNNFGRLFEVKPKKPNQLQDLDMMLTCVEIK
EGALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGRREQEWEEEEEEDEEEEGSNRE
VRRYTARLKEGDVFIIMPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEK
QAKDLAFPGSGEQVEKLIKQRESHFVSARPSQSPSSPEKEDQEEENQGGKGPLLSILK
AFN

>accession|AAT00595.1|Allergen conarachin [Arachis hypogaea]

LEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIKVSKEHVEELTKHA
KSVSKKGSEEEGDITNPINLREGEPLSNNFGKLFVVKPKKPNQLQDLDMMLTCVEIKE
GALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGRREEEEDQEEEGSNREVRRY
TARLKEGDVFIIMPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEKQAKD

LAFPGSGEQVEKLIKQRESHFVSARPQSQSPSSPEKEDQEEENQGGKGPLLSILKAFN

>accession|AAT00596.1|Allergen conarachin [Arachis hypogaea]
GFDQRSRQFQNLQNHRIQIEAKPNTLVLPKHADADNILVIQQGQATVTVANGNNRKSFN
LDEGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFEDFFPASSRDQSSYLQGF
RNTLEAAFNAAFNEIRRVLLEENAGGEQEERGQRRWSTRSENNEGVIVKVSKEHVEELT
KHAKSVSKKGSEEGDITNPINLREGEPDLSNNFGKLFVVKPDKKNPQLQDLDMMLTTCVEI
KEGALMLPHFNSKAMVIVVVNKGTVNLELVAVRKEQQQRGRREEEEDEDEEEEGSNREVR
RYTARLKEGDVFIIMPAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEKQA
KD LAFPGSGEQVEKLIKQKESHFVSARPQSQSPSSPEKESPEKEDQEEENQGGKGPL
LSILKAFN

>accession|Q7M4I5.1|Allergen Phospholipase A2
(Phosphatidylcholine 2-acylhydrolase) [Apis dorsata]
IIYPGTLWCGHGNVSSSPDELGRFKHTDSCCRSHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDKFYDCLKNSSDTISSYFVGMFYFNILDTKCYKLEHPVTGCGKRTEGRCLNYTVDK
SKPKVYQWFDLRKY

>accession|Q7M4I6.1|Putative RecName: Full=Phospholipase A2;
AltName: Full=Phosphatidylcholine 2-acylhydrolase; AltName:
Allergen=Bom p 1 [Bombus pennsylvanicus]
IIYPGTLWCGNGNIANGTNELGLWKETDACCRTDHMCPIIEAHGSKHGLTNPADYTRLN
CECDEEFRHCLHNSGDVSAAFVGRTYFTILGTQCFRLDYPIVKCKVKSTILRECKEYEF
DTNAPQKYQWFDVLSY

>accession|P83885.1|Allergen Allergen Ani s 4 [Anisakis simplex]
GMLGGSSDVDXNXP

>accession|Q7Z1K3.1|Allergen Major allergen Ani s 1 precursor
(Excretory gland allergen Ans1) (21 kDa allergen) [Anisakis
simplex]
MASMQHFSLAALLLAASICLGADADRTECQLPLDKGTPCTQEGGVKPSVAWWHDDKSGICL
SFKYTGCGGNANRFTTIKNCEQHCKMPDRGACALGKKAEDSNGEQLVCAGMREDKCPNG
YQCKMMAFMGLCCPTKEEELFAREYEGVCKSGKPVKMDRGSGWMMTILGKSCDDQFCPED
AKCERGLFANCK

>accession|Q7M1X5.1|Allergen Major pollen allergen Lol p 11 (Lol
p XI) [Lolium perenne]
DKGPGFVVTGRVYCDPCRAGFETNVSHNVEGATVAVDCRPFDDGGESKLAEATTDKDGWY
KIEIDQDHQEEICEVVLAKSPDKSCSEIEEFRDRARVPLTSNXGIKQQGIRYANPIAFFR
KEPLKECGGILQAY

>accession|Q7M1E7.1|Putative Polygalacturonase precursor (PG)
(Pectinase) (Major pollen allergen Cha o 2) [Chamaecyparis
obtusa]
MGMKFMAAVAFALQQLIVMAAAEDQSAQIMLDSIEQYLRNSRSLKLVHSRHDAAATVFN
VEQYGAVDGKHDSTEAFATTWNAACKKASAVLLVPANKKFFVNNLVFRGPCQPHLSFKV
DGTIVAQPDPARWKNKIWLQFAQLTDFNLMGTVIDGQQQWWAGQCKVVNGRTVCNDR
NRPTAIKIDYSKSVTVKELTLMNSPEFHLVFGCEGVKIQGLKIKAPRDSPTDGDIDIFA
SKRFHIEKCVIGTGDDCIAIGTGSSNITIKDLICGPGHGISIGSLGRDNSRAEVSHVHN
RAKFIDTQNGLRITWQGGSLASYITYENVEMINSENPIILINQFYCTSASACQNQNSAV
QIQGVTYKNIHGTSATAAAIQLMCSDSVPCTGIQLSNVSLKLTSGKPASCVDKNARGFYS
GRLIPTCKNLRPGPSPKEFELQQQPTTVM DENKGACAKGDSTCISLSSSPNCKNKCKGC
QPCKPKLIIVHPNKPQDYYPQKWVCSCHNKIYNP

>accession|AAT40866.1|Putative tropomyosin [Tyrophagus putrescentiae]

MDAIKNKMQAMKLEEDNAIDRAEIAEQKARDANLKSEKTEEEVRALQKKIQQIENELDQV
QENLTQATTKLEEKALQTAADVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMKMLEHRSITDEERMDGLESQKLEARLMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKAQQREEAYEQQIRIMTSKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKEYESISDELDTQFAELTGY

>accession|AAT45383.1|Putative parvalbumin [Lates calcarifer]
MAFSNVLSDSVAAALDGCKDAGTFDHKKFFSACGLSNKTSDDVKKAFAIIDQDKSGFIE
EELKLFQNFKADARVLTDVETSTFLKAGDTDGDGKIGADEFTALVKP

>accession|AAT66566.1|Putative major allergen alt a1
[Stemphylium vesicarium]
ALFAAAGLAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNLSFNKATNK
GTLDFTCSAQADKLEDDKFYSCGENSFMSFAFQSDRNGLLFRQDVSEITYVATATLPNY
CHAGGNGPKDFVCQGV

>accession|AAT66567.1|Putative major allergen alt a1
[Stemphylium callistephi]
TLFAAAGLAAAAPLEAPQANTTTPVSTQGDYVWKISEFSGRKPEGTYNNLSFNKATNG
GTLDFTCSAQADKLEEDFYSCGENSFISFAFQSDRSGLLLRQDVSEITYLATATLPNY
CRAGGNGPNDFICQGV

>accession|CAE52833.1|Allergen polygalacturonase [Platanus x
acerifolia]
RGVQSSGSVFNVDYGAAGDISQAVMKAWKAACASQGPSTVLIIPKGNYNMGEVAMQGP
CKGSKIGFQIDGVVKAADPSKFKSDGWVSFYRIDGLTVSGTGLDGQQTAWAKNNCDK
NPNCXHAAMNLRFDLKHAMVRDITSLNSKMFHINVLECEDITFQHVTVTAPGTSINTDG
IHVGISKGVTTITNTKIATGDDCISIGPGSQNVTTITQVNCGPGHGISIGSLGRYNNEKEVR
GITVKGCTFSGMTNGVRVKTWPNSPPGAATDLTFQDLTMNNVQNPVILDQEYCPYQCSR
QAPSRIKLSNINFNNIRGTSTGKVAVVIACSHGMPCSNMKIGEINLSYRGAGGPATSTCS
NVKPTFSGKQVPAIKCA

>accession|AAO67349.2|Allergen oleosin [Corylus avellana]
MADRPQQLQVHPQRGHGHEGGIKNQGGGSAVKVMAVLAALPVGTTLLALAGLTLGAS
VIGLLVTSPLFIIFSPVLVPAIIVVGLAVASFLSSGALGLTGLSSLSWVLNLYLRCASQSL
PREMDQAKRRMQDMAAFVQKTREVGQEIQSRAQEGRRT

>accession|CAH03799.1|Allergen lipid transfer protein [Citrus
sinensis]
ITCGQVTGSLAPCIVYLRSGGPIPVPCNGVRSLNAAARTTPDRQTACNCLKQAAGSIPN
LNPNNAVGLPRACGVSIPYKISISTDCSKVR

>accession|AAT77152.1|Putative arginine kinase [Periplaneta
americana]
MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDLG
QVYRRLVAVNDIEKRIPFSDHDLGFLTFCTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRMRMLTEYDAVKEMNDGIAELIKLESSL

>accession|AAT80649.1|Allergen lipid transfer protein precursor
[Malus x domestica]

MASSAVTKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRNGGAVPPACCNGIRTINS
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNPYPYKISTSTNCATVK

>accession|AAT80659.1|Allergen lipid transfer protein precursor
[Malus x domestica]

MASSAVIKLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSRGGPVPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNAESLPGKCGVNPYPYKISTSTNCATVK

>accession|AAT80662.1|Allergen lipid transfer protein precursor
[Malus x domestica]

MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSRGGPVPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNAESLPGKCGVNPYPYKISTSTNCATVK

>accession|AAT80664.1|Allergen lipid transfer protein precursor
[Malus x domestica]

MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSRGGPVPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNAESLPGKCGVNPYPYKISTSTNCATVK

>accession|AAT80665.1|Allergen lipid transfer protein precursor
[Malus x domestica]

MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSRGGPVPACCNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNVEESLPGKCGVNPYPYKISTSTNCATVK

>accession|AAT95008.1|Putative allergen Sol i 1 precursor
[Solenopsis invicta]

MRKFAAIFVVFVQCTHLYSLAQARAEPDGPVVEYLKQSCVYGNSSYINVYLYNSRFQGK
NLGNQQSCQDINASLPVVFITHGFTSSAQVSTFKDLANAFVQKHTAFIVDWSEAACTDG
LPGVQFAEYNAAASNTYDIGQLMAKYTVDLMNKCKIPLNNIQYVGHSLGSHVCGFAAKHV
KKLINKTMPYILALDPADPSFGSNKCGERICKSDAKRIVVFKTSILGIGENIIGHLLIVF
DGGKSQPACSWYDVPCSHSESIVYATGMVSGRCQHLAVPWTAAQQRINPIQWKFWRVFTSN
IPAYPTSDTTNCVVLNTNVFKNDNTFEGEYHAFPCARNLFKCRQQ

>accession|AAT95009.1|Allergen allergen Pol e 5 precursor
[Polistes exclamans]

MEIGGLVYLIVVVAIIHSSQGVQDYCKIRCPGSIHTVCQYGESTKPSKNCAGKVIKSVGPT
EEEKKLIVSEHNRFRQKVAQGLETRGNPGPQPAASDMNDLVWNDELAKIAQVWASQCQFL
VHDKCRNTAKYPVQNIAYAGGSKLPDVVSLIKLWENEVKDFNYNTGITKQNFAGHYT
QMVMWGKTKEIGCGSLKYMENKMQNHLYLICNYGPAGNYLGQLPNTTK

>accession|AAT95010.1|Allergen allergen Pol d 5 precursor
[Polistes dominulus]

MKISCLICLVIVLTIHLSQANDYCKIKCSSGVHTVCQYGESTKPSKNCAGKLIKSVGPT
EEEKKLIVEEHNRFRQKVAQGLETRGNPGPQPAASNMMNLVWNDELAKIAQVWASQCQIL
VHDKCRNTEKYQVQNIAYAGSSNHFPVTKLIQLWENEVKDFNYNTGITNKNFGKVGHY
TQMVMWGNTKEVCGSLKYVEKNMQIHLYLICNYGPAGNYLGQPIYTKK

>accession|BAD36780.1|Putative pilosulin 4 [Myrmecia banksi]
MKLSCLLLTLAIFVLTIVHAPNVKAKALADPESDAVGFADAVGEADPFDITKLNKIKLT
KATCKVISKGASMKVLFDKKKQE

>accession|AAT99258.1|Putative pectin-methyltransferase precursor
[Salsola kali]

MEEHVSMLLVGFVLINIAFTSIAQLIPPNPAAELESWFQGAVKPVSEQKGLEPSVVQTESG
GVETIEVRQDGSFKFTISDAVKHVKGNTKRVIITIGPGEYREKVKIERLHPYITLYGI
DPKNRPTITFAGTAAEFGTVDSATVIVESDYSVGAHLIVTNSAPRPDGRKKAQAGALRI

SGDRAAFYNCKFTGFQDTVCDKGNHFFTDCTYEGTVDFIFGEARSLYLNTELHVVP
MAMITAHARKNADGVGGYSFVHCKVTGTGGTALLGRAWFDAARVVFSYCNLS
SDNNKPEAQKTILFGEYKNTGPGAAPDKRAPYTKQLTEADAKTFTSLEYIEAAK
WLLPPP
KV

>accession|Q9LD79.2|Putative Pathogenesis-related protein precursor (Potential major pollen allergen Jun v 3) [Juniperus virginiana]
AFLLAATLTISSHMQEAGAVKFDIKNQCQYTVWAAGLPGGGKRLDQGGTWTVNLAAGTAS
ARFWGRTGCTFDASGKSGCQTGDCGRQLSCTVSGAVPATLAEYTSQSDQDY

>accession|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]
PAGPFRIPKCRKEFQQAQHLRACQQWLHKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEPLCVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIRQVSVCPFKKTMPPGPS

>accession|AAU11502.1|Putative fatty acid-binding protein [Tyrophagus putrescentiae]
MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGDSTYIKTSSTLKNS
EIKFKLGEFEEDRADGKKVQTSVTKEGDNKLVQVQKGDKPVTIVREFSEEGLTVTATVN
GVTSVRFYKRQ

>accession|AAU21500.1|Putative oleosin 2, partial [Arachis hypogaea]
MTDRTQPHAVQVHTTAGRFGDTAAGTNRADRGPSSTKVIIVITGLPIGGTLLLFAGLAL
AGTLLGLAVTTPPLFILFSPVIVPATIVVGLSVAGFLTSGACGLTGLSSFSWVMNYIRQTH
GSVPEQLEMAMHRMADVAGYVQKTKDVGQ

>accession|P84159.1|Allergen Germin-like protein (Allergen Cit s 1) [Citrus sinensis]
TDPGHLQDVXVAINDPKXGVFVNRK

>accession|P84160.1|Allergen Nonspecific lipid-transfer protein (LTP) (Allergen Cit 1 3) [Citrus limon]
ITCGQVTGSLAPXIPFLRTG

>accession|P84161.1|Allergen Nonspecific lipid-transfer protein (LTP) (Allergen Cit s 3.0101) [Citrus sinensis]
ITXGQVTGSLAPXIAFLRTK

>accession|P67875.1|Allergen Ribonuclease mitogillin precursor (Major allergen Asp f 1) (Asp f I) (Allergen I/a) (IgE-binding ribotoxin) [Aspergillus fumigatus]
MVAIKNLFLLAATAVSVLAAPSPLDARATWTCINQQLNPKTNKWEDKRLLYSQAKAESNS
HHAPLSDGKTGSSYPHWFTNGYDGNGLIKGRTPIKFGKADCDRPPKHSQNGMGKDDHYL
LEFPTFPDGHYKFDKSKPKEDPGPARVIYTPNKVFCGIVAHQRGNQGDRLRLCSH

>accession|CAD54670.2|Allergen pollen allergen Phl p 4 [Phleum pratense]
SSCEVALSYYPPTPLAKEDFLRCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PIYIVTPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRV
WVDGKARTAWVDSGAQLGELYAIAHKASPVLAFFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLVDANGTLHDKKSMGDDHFWAVRGGGSEFGIVVAVKWRLLPVPPPTVTVF

KIPKKASEGAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCTLTPMSSKF
PELGMNASHCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEV
WEQIFSTWLLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAA
PLSWSKEIYNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQ
RLAITKGKVDPTDYFRNEQSIPPLIQKY

>accession|CAD54671.2|Allergen pollen allergen Phl p 4, partial
[Phleum pratense]

SSCQVAFSYFPPPAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PLYIITPTNVSHIQSAVVCGRRHVSRIRVRSGGHDYEGLSYRSLQPETFVAVVDLNMRAV
WVDGKARTAWVDSGAQLGELYAIYKASPTLAFAPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLVDANGKLDKSMGDDHFWAVRGGGGESFGIVVAWQVLLPVPTVTFIF
KISKTVSEGAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCTLTPMSSKF
PELGMNPSHCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTV
WEQILNTWLKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAA
PLSWSKDIYNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGWQKYFKGNFE
RLAITKGKVDPTDYFRNEQSIPPLIKKY

>accession|AAV33670.1|Putative 18 kD winter accumulating protein
A [Morus bombycis]

MGVFTFDDEFTSTVAPARFFKAAVLDADNLFPKVAPQAAKSAETVEGNGGPGTVKKITLP
DGKYVKQRLDSIDHDNFTYGHSHIIEGDVLSADIEKISHVTKFVASPSGGSIKVTTFHT
VGDAPVDEAKAKEGKEKAAGLFLKLVGYLEANPSAYN

>accession|AAV33672.1|Putative 18 kD winter accumulating protein
C [Morus bombycis]

MGVSTHNDEFTSTVAPARLFKAAVLDADNLFPKIAPDAAKSAENIEGNGGPGTIKKITFP
DGKYVKQKLDALDLDNYSYSHSHIIEGDILSAELEKISHETKFVAAPGGGSIKVTTFHT
VGNATVDEAKAKEGKEKAAGLFLKLVGYLEANPSAYN

>accession|AAT37679.1|Putative vacuolar serine protease
[Rhodotorula mucilaginosa]

TMELLEDLIEQVRQLPMVNFIEKNSLVHANEFVAKGAPWGLARISHRDPLSLGSDQYL
YDSNGGTGVTSYVIDTGVNVHHEQFEGRAKWKGTIPQGDEDEDGNGHGHGTHCAGTIGSNAY
GVAKNAEIVAVKVLRSNGSGSMSDVIKGVFAVKSHQDSVKKGKNSFSTANMSLGGGKSP
ALDLAVNAAVKAGLHFAVAAGNENQDACNTSPASAENAITVGASTISDARAYFSNYGKCV
DIFAPGLNILSTYIGSDAATAYLSGTSMASPHIAGLLTYLQPSDSEFFIGAEGITP
AQLKKNLIAFGTPDVLADIPADTPNILAFNGAGQNLTKFWGH

>accession|AAV40850.1|Allergen lipid transfer protein 1 precursor
[Prunus persica]

MAYSAMTKLALVVALCMVSVPIAQAITCGQASSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>accession|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]

MAPKKDVKKPAAAAAPAPAPAPAPAPAKPKEPAIDLKSIKIEFSKEQQDDFKEAFLLF
DRTGDAKITLSQVGDIVRALGQNPTNAEINKILGNPSKEEMNAKKITFEFFLPLQAAAN
NKDQGTFFEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMTTEEEVEELMKGQEDSNGCI
NYEAFVKHIMSV

>accession|CAH92627.1|Putative pollen allergen Sec c 4 [Secale

cereale]

NYRAFALALLFCALSCQAAAAAYAPVPAKADFLGCLMKEIPARLLYAKSSPDYPTVLAQT
IRNSRWSSPQNVKPIYIITPTNASHIQSAVVCGRRHGIRLRVRSRGGHDYEGLSYRSEKPE
TFAVVDLNMRAVSVVDGYARTAWVESGAQLGELYAIAKNSPVLAFFPAGVCPSIGVGGNF
AGGGFGMLLRKYGIAAENVIDVKVVDPNGLLDDKSSMSADHFWAVRGGGGESFGIVVSWQ
VKLLPVPPTVTVLKIPKTVQEGAILDVKVQVLPALPGDLMIRIILAGNSATFEAMYL
TCSTLTPLMSSKFPPELGMNPSHCNEMSWIKSIPFIHLGKQNLDDLNRNNTFKPFAEYKS
DYVYQPFKPVWEQIFGWLKPGAGIMIMDPYGATISATPEAATPFPHRQGVLFNIQYVN
YWFSAESAGAAPLQWSKDIYKFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYSSGKVW
GEKYFKGNFQRLAITKGKVDPODYFRNEQSIPPLVEKY

>accession|CAH92630.1|Putative pollen allergen Sec c 4 [Secale
cereale]

NSRAFALVPLLCVLSCHAAVSAAAAPVPAKEDFFGCLVKEIPARLLYAKSSPAFPTVLA
QTIRNSRWSSPQSVKPLYIITPTNASHIQSAVVCGRRHGVRIRVRSRGGHDYEGLSYRSE
PEAFVAVVDLNMRAVVVDGKARTAWVDSGAQLGELYAIAKNSPVLAFFPAGVCPTIGVGG
NFAGGGFGMLLRKYGIAAENVIDVKVVDANGTLDDKSSMSADHFWAVRGGGGESFGIVV
WQVKLLPVPPTVTVFKIPKTVQEGAVELINKWQLVAPALPDDLIRIIAFGGTAKFEAMY
LGTCKALTPMSSRFPELGMNASHCNEMPWIKSVPFHLGKQATLSDLLNRNNTFKPFAE
YKSDYVYQPVKPVWAQIFVWLKPGAGIMVMDPYGAAISATPEAATPFPHRKDVLFIQ
YVNYWFDEAGGAAPLQWSKDMYRFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYASG
KVWGEKYFKGNFQRLAITKGKVDPODYFRNEQSIPPLLGK

>accession|CAH92637.1|Allergen pollen allergen Lol p 4 [Lolium
perenne]

AVVCGRRYDVRIRVRSRGGHDYEGLSYRSLQOPENFAVVDLNMRAVLVDGKARTAWVDSGA
QLGELYAIAISKYSRTLAFAPAGVCPTIGVGGNLAGGGFGMLLRKYGIAAENVIDVKLVDAN
GKLHDKKSMGDDHFWAVRGGGGESFGIVVSWQVKLLPVPPTVTIFKIPKSVSEGAVDIIN
KWQLVAPQLPADLMIRI IAMGPKATFEAMYLGTCKTLTPMMQSKFPELGMNASHCNEMSW
IESIPFVHLGHRDSLEGDLLNRNNTFKPFAEYKSDYVYEPFPKSVWEQIFGTWLKPGAG
IMIFDPYGATISATPEAATPFPHRKGVLFIQYVNYWFAPGAGAAPLSWSKEIYNYMEPY
VSKNPRQAYANYRDIDLGRNEVVNGVSTYSSGKVWGQKYFKGNFERLAITKGKVDPTDYF
RNE

>accession|CAI05848.1|Allergen mite allergen Der f 2
[Dermatophagoides farinae]

MISKILCLSLLVAAVVADQVDVKDCANHEIKKVMVDGCHGSDPCIHRGKPFNLEAIFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>accession|CAI05849.1|Allergen Der f 2 [Dermatophagoides
farinae]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFNLEAIFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>accession|CAI05850.1|Allergen mite allergen Der f 2
[Dermatophagoides farinae]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFNLEAIFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>accession|CAI23765.1|Allergen profilin [Citrus sinensis]

MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIIQGEAGAVIRGKKGSGGIIVKKTNQALIIGIYDEPLTPGQCNMIVE

RLGDYLIEQGL

>accession|AAV74343.1|Allergen Fra e 1.0102 major allergen
[Fraxinus excelsior]
EDVPQPPVSLFYVQGVYCDTCRAGFITELSEFIQAGVRLQCKEKENGKVTFTTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCHEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEALPKCPQVYNKLGMYPPNM

>accession|P84296.1|Putative Globin CTT-VIIB-4 precursor
(Erythrocrucorin) [Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNASNAAAVEGLLNKLGSDHKARGVSAAQ
FGFERTALVSYLSNHVSWGDNVAAAANKALDNTMAVAVAHL

>accession|P84298.1|Putative Globin CTT-VIIB-5/CTT-VIIB-9
precursor [Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNTSNAAAVNLSLVSKLGDDHKARGVSAAQ
FGFERTALVAYLQANVSWGDNVAAAANKALDNTFAIVVPRL

>accession|P02226.2|Putative Globin CTT-VIIA precursor
[Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLSADQAALVKSTWAQVRNSEVEILAAVFTAYPDIQARFPQFA
GKDVASIKDTGAFATHAGRIVGFVSEI IALIGNESNAPAVQTLVGQLAASHKARGISQAQ
FNEFRAGLVSYVSSNVAVNAAAESAWTAGLDNIFGLLFAAL

>accession|BAD77932.1|Putative class IV chitinase [Cryptomeria
japonica]
MQIMATQNSKSNIFWSSASVVLVLLLLVDVGVQCQNGCNGLCCSQYGYCGSGEAYCGAG
CKEGPCSSSSPSTGTGVGSIVSSDVFNISVGGAAAGCAGNGFYTYDSFISAANAFNGFG
TSGSSDVNKREIAAFFANAHAHETGGFCYIEEQNPTSIYCDASNTQYPCASGKTYHGRGPL
QLSWNYNYGAAGSYIQFDGLNNPEIVGTDSTISFKTAVWFWMVNSNCHTAITSGQGFAT
IRAINSMEDGGNAATVASRVNYYQKFCQQLNVDTGSNLQC

>accession|AAV97933.1|Putative parvalbumin beta-1 [Lates
calcarifer]
MAFAGILNEADITAALAACQAADSFKHKDFFVKVGLAGKSDDDVKKAFVAIDQDKSGFIE
EDELKFLQNFASASARALTAETKEFLKAGDSDGDGKIGVDEFAALVKV

>accession|AAW29810.1|Putative seed storage protein [Juglans
regia]
MAKPILLSIYLFLIVALFNGCLAQSGGRQQQFGQCQLNRLDALEPTNRIEAEAGVIESW
DPNNQQFQCAGVAVVRRTEPNGLLLPQYSNAPQLVYIARGRGITGVLFPGCPETFESQ
RQSQQQSREFQQDRHQKIRHFREGDIIAFPAGVAHWSYNDGSDNPVVAISLLDTNNNANQ
LDQNPFRNYLAGNPDDEFPRPQGQQEYEQHRRQQQRQRPGEHQQQRGLGNNVFSGFAD
FLADAFNVDTEETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERERES
ESERRQSRRGRRDDNGLEETICTLRLRENIGDPSRADIYTEEAGRISTVNSHTLPVLRWL
QLSAERGALYSDALYVPHWNLNAHSVYALRGRAEVQVVDNFGQTVFDDELREGQLLTIP
QNFVAVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLATAFQIPREDARLK
FNRQESTLVRSPRSRSSRSERRAEV

>accession|AAP13533.2|Allergen profilin [Cucumis melo var.
reticulatus]
MSWQVYVDEHLMCEIEGNHLTSAAIIGQDGSVWAQSQNFQPKPEEVAGIVGDFADPGTL
APTGLYIGGTYKVMVIQGEPEGAVIRGKKGPGGVTVKKTGMALVIGIYDEPMTPGQCNMIVE

RLGDYLLIDQGL

>accession|CAE17316.1|Putative villin 1 [Nicotiana tabacum]
EGGGKIEVWRINGSAKTPVPGDDIGKIFYSGDCYIVLYTYHCNDRKEDYYLCWWIGKDSVE
EDQNMAAKLASTMCNSLKARPVLGRVYQKKEPPQFVAIFQPMLVLKGGSSGYKSYIADK
GLNDETYTADSVAILRLSGTSVHNNKAVQVDAVATSLNSNECFLLQSGSSVFSWHGNQST
YEQQQLAAKVAEFLKPGVTVKHAKKEGTESSTFWFALGGKQSYTSKKIASEVARDPHLFAY
SFNKGKFEIEEIIYNFSQDDLLTEDVLLLDTHAEVFWVVGQSSDPKEKQSSFEVVGQKYIEM
AASLEGLSPHVPLYKVMENPCFFTTFFSWDPAKAIAGNSFQKKVMLLFGVGHASENQ
QRFNGTNQGGATQRASALAALNSAFSSSSPAKSSSAPRSAGKSPGSQRAAAIAALSSALS
AEKKQPPEGGSPRLRSRTSSVDAIAPGNVSTAEIEDSKEVPERKEIETVEPAETDGEDV
GPKPEPEQDETGNDSSTTFSYERLKAENSENPVTGIDLKRREAYLSDEEFESVLEMTKEA
FYKLPKWKQDIHKKKVDLF

>accession|CAE17317.1|Putative villin 2 [Nicotiana tabacum]
REDYYLCWWIGKDSIEEDQSMARLASTMCNSFKGRPVLGRVVFQKKEPPQFVAIFQPMLV
LKGGSSGYKNIADKGLNDETYAADSVALIRLSGTSVHNNKAVQVDAVPASLNSNECFLL
LQSGSSIFSWHGNQSTYEQQQLAAKVAEFLKPGATVKHTKEGTESSAFWFAVGGKQSYTS
KKVATEVSRDPLHFAYSFNKKGKFEVEEIIYNFSQDDLLTEDILLLDTHAEVFWVVGQADS
KEKQSAFDVQKQYVEMAASLEGLSPNVPLYKVTEGNEPCFFTTFFSWDPAKRSAGNSFQ
KKVMLLFGVGHASENQQRNSNGSGGPTQRASALAALNSAFSSSPPKSSSAPRPAGTSSAS
QRAAAIAALSGVLTAEKKQSSEGGSPVRSNRSSPVRSSRSPVRSADSGPTENDLSTAEV
QDSEKASEPKIEVEPAESNGSEPKPEAEQDEGGNESGQAIFSYEQLKAKSDNPVTGIDFK
RREAYLSDEEFESVLMKKEAFYKLPKWKQDMHKKRVDLF

>accession|AAW69549.1|Allergen profilin [Cucumis melo]
MSWQVYVDEHLMCEIEGNHLTSAAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTKYMIQGEPEGAVIRGKKKGGGATVKKTGMLVIGIYDEPMTPGQCNMIVE
RLGDYLLIDQGL

>accession|CAG26895.1|Allergen Arg r 1 precursor [Argas
reflexus]
MALIILLVACLVSVSADDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTDKFKE
NTKTATYTYGYKDasGKLTKTGTATAKGSDIVVGSdTSTVIYTDGKTCDVVKHGGHTEL
VHSSKTSGGYNCCDKKFTETRGSTPANEVYKKCPGMP

>accession|NP_001011564.1|Putative major royal jelly protein 8
precursor [Apis mellifera]
MIRWLLLMYLGITCQGVTDIHSRNLNSLKVIEYWKYIDYDFGSDEKRQAAIQSGDYNNT
MNYLLDTDQWGDKTFVIIMKFNGVPSSLNVITNKTGNGGPLLAPYDWTWAKNENCSGIT
SAYKIEIDMCDRLWVLDGLINNVRVSCPPQLLVFDLNTSOLLKQVKIPHDIAVNTTTEK
GALVTLVQLLSCEVNGSTLVYIGDNEGFALIIYNNSDNSFQRLTSSTFASDPRYTTFTI
NGESFTLQSGIFGMALSPLTQNLVYSSALSSHNLNVNTEQFVKSQYQANNVHYQGENIL
WTQASAKGISDNGVLFGLVGDTSACWNNENRLLDRRNIEVVAKNKETLQAITGLKVKRR
ISFILVHGFPLEYEYVLAVSNRIQKVIYGFDFNDVNFRIILIANVNDLIKNTRCISP

>accession|AAW81034.1|Putative profilin [Crocus sativus]
MSWQTYVDEHLMCDMDGHVLTSAAILGHDSVWAQSAAGFPELKPAEITAILNDFNEPGSL
APTGMINGAKYMIQGEPEGVIRGKKKGGGVTIKKSNMALIFGLYDEPMTPGQCNLVE
RLGDYLIEQGY

>accession|P69199.1|Putative Polcalcin Bra r 2 (Calcium-binding
pollen allergen Bra r 2) [Brassica rapa subsp. rapa]
MADATEKAHDIRIFKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYI
SYQEFSDFASANRGLMKDVAKIF

>accession|AAX11194.1|Putative 60S acidic ribosomal P1 phosphoprotein Pen b 26 [Penicillium brevicompactum]
MSTAELAVSYAALILADDGIEVSADKIQITILGAAKVQEVEPIWATIFAKALEGKDIKEIL
TNVGSAGPATAGAPAAAGAAAPAEKKEEKEEKEEESDEDMGFGLFD

>accession|AAX11261.1|Putative pectin methylesterase allergenic protein [Salsola kali]
QPIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIEGLHPYITLYGIDPKNRPTITFAGTAAEFQTVDSA
TLIVESDYFVGANLIVSNSAPRPAGKRKGAQASALRISGDRAAFYNCKFTGFQDTCDDK
GNHLFKDCYIEGTVDLIFGEARSLYLNTELHVVPDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEARVVFSSYCNLSDAVKPEGWSDNNKPAAQKTIFFGYKNTGPG
AAADKRVPYTKQLTEADAKTFTSLEYIEAAKWLLPPPKV

>accession|AAX11262.1|Putative pectin methylesterase allergenic protein [Salsola kali]
QPIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFQTVDSA
TLIVESDYFVGANLIVSNSAPRPDGKRKGARASALRISGDRAAFYNCKFTGFQDTCDDK
GNHLFKDCYIEGTVDFIFGEARSLYLNTELHVVPDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEARVVFSSYCNLSDAVKPEGWSDNNKPAAQKTIFFGYKNTGPG
AAADKRVPYTKQLTEADAKTFTSLEYIEAAKWLLPPPKV

>accession|AAX14379.1|Putative vacuolar serine protease [Davidiella tassiana]
MRGALAGLSLATLATASPVLVNSIHNDAAPIISASNAKEIADNYMIKFKDHVTQNLAAEH
HGWWQDLHEKTQVAKTELKRKSQSPMVDDIFNGLKHTYNIAGGLMGYAGHFDVIEQIR
RHPDVELVERDQEVHVLGSESEVEKNAPWGLARISHRDSLSFGTFNKYLYTEDGGEGVDV
YVVDVTGNTVDHVDVFEGRASWGKTIIPQGDADDEDGNHGHGTHCSGTVAGKKYGVAKKAHVAV
KVLRSNGSGSMSDVVKGVEYAAESHLEQVSITKKGKRKGFKGSTANMSLGGGKSPILDKA
VNAAVDAGIHFVAAGNDNADSCNYSAAAENAVTVGASTLADERAYFSNYGKCNDIFAP
GLNIQSTWIGSKYAVNTISGTSMASPHVAGLLAYLLSLQPAKDSAFVADISPKKLKANL
ISIATVAGALTDVPSNTANILAWNGGESNYSAIVEKGGYKATHRPTMLEEIESEAKVASK
KVYSEGDELAHKVAELTEKVEDLIAGELKDMFRELKRE

>accession|AAX19848.1|Putative thaumatin-like protein precursor [Malus x domestica]
MMKSQVASLLGLTLAILFFSGAHAAKITFTNCPNTVWPGLTLTGDQKPQLSLTGFELASK
ASQSDAPSPWGRFRWGRTRCSTDAAGKFTCETADCGSQVACNGAGAVPPATLVEITIA
ANGGQDYDVSVDLVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCPQAYSAYDDKNSTFTCSGGPDY
VITFCP

>accession|AAX19851.1|Putative thaumatin-like protein precursor [Malus x domestica]
MMKSQAASLLGLTLAILFFSGAHAAKITFTNCPNTVWPGLTLTGDQKPQLSLTGFELASK
ASQSDAPSPWGRFRWGRTRCSTDAAGKFTCETADCGSQVACNGAGAVPPATLVEITIA
ANGGQDYDVSVDLVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCPQAYSAYDDKNSTFTCSGGPDY
VITFCP

>accession|AAX19854.1|Allergen profilin 1 [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIIQEGGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE

RLGDYLLIDQGL

>accession|AAX19856.1|Allergen profilin 1 [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIIQEGGAVIRGKKKSGGVTVKKTGQDLVFGIYEEPLTPGQCNMIVE
RLGDYLLIDQGL

>accession|AAX19858.1|Allergen profilin 2 [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHGDSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIIQEGPGVVIRGKKKPGGVTVKKTSTMALLIGIYDEPMTGQCNMVVE
RLGDYLLIEQGL

>accession|AAX19860.1|Allergen profilin 2 [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHGDSVWAQSATFPQLKPEEVTGVMNDFNEPGSL
APTGLYLGGTKYMVIIQEGPGVVIRGKKKPGGVTVKKTSTMALLIGIYDEPMTGQCNMVVE
RLGDYLLIEQGL

>accession|AAX19889.1|Putative pathogenesis-related protein 10
[Vigna radiata]
MAVFTFDDQATSPVAPATLYNALAKDADNIIPKAVGSFQSVEIVEGNNGPGTIKKISFVE
DGETKFLVHKIESVDEANLGYSYSIVGGVALPDTAEKITIDTKISDGADGGSLIKLTISY
HGKGDAPPNEDELKAGKAKSDALFKAVEAYLLANP

>accession|AAX33727.1|Putative Per a 2 allergen [Periplaneta
americana]
MTFLIQSAFVALAAISAVLDCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPSASCVSGGCNCANVHKYYSNKPVSNNVASVPILGSGYANGSEAHDYIAVSTLNA
TNQGFLLADDISNDICSLGADCVI GLGRPKSGRAAFNLPTVMENFVNQDNIANSFSFHGG
RYPDQHRGVLVGGPIPAYRQDFTYVPLVDQDTWNFKVDSISVGNEVIATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTL CVFDCDKLDNVPSVTFITIGVAFNISSTY
QIQQNGDLCYSGFQYSAGKCFHFQDFMDNYYGEFDGQNKRMGFAKSVEEL

>accession|AAX33728.1|Putative Per a 4 allergen [Periplaneta
americana]
MLSILVVCLLAGFQLAAGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYD
KYTLDENGVIQVTSVAYTNSTRGFITSTGTVP SWTENTFDIAYGDNETWSSTYFMIGTDY
QTYSIVAGCLDNDYSRHLYWIASHGTSFDDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQ
YKS

>accession|AAX33729.1|Allergen Per a 5 allergen [Periplaneta
americana]
MTIDFYYPGSA PCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMN PQHTIPTLNDK
GFCLWESRAILSYLADQY GKDDSLYRRDAKKRALVDQRLYFDIGTLYHRFGEYYPPIYFA
KQAADPEKMKKLEEF EFLNKFL ESQEFVAGNKLTIADLAI VSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK

>accession|AAX33730.1|Putative Per a 6 allergen [Periplaneta
americana]
MDELPDEQIQLLKKAFDAFDREKNGFISTDMVGTILEMLGHPLDDDMLEEIIAEVDADGS
GELEFQEFVTLAARFLVEEDAEAMQQLKEAFRLYDKEGNGYITTTVLREILKELDDKLT
NEDLDAMIEEIDSDGSGTVDFDEFMEVMTGE

>accession|AAX33734.1|Allergen MPA3 allergen [Periplaneta
americana]
MLRYLVLASLIACSLSAVPAKAKRPRLDGRIVGGRPADIADYPYQLSFEYYGSHMCGASII

SPNWVVTAAHCVDGVSASSATFRAGGSIRESGGSVHQATQLIANPNYDYYTIDFDVAVAR
VSPAFSYGTGVQPIPLASSEPSAGQIATVSGWGTTSSEGGSTLPSQLQVVSVPVIVSRSECN
QAYSDYGGITDDMICAAEQGGKDACQGDSSGGLVNVNGQLAGIVSWGVCAGQGYPGVYS
NVASLKGFFITEQTVN

>accession|AAX34047.1|Allergen Blo t 5.02 allergen [Blomia
tropicalis]
MKFIIAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLKDLKA
LQKRVQDSE

>accession|AAX35807.1|Putative lipid transfer protein 2 precursor
[Lens culinaris]
MARGMKLACVVLVICMVVIAPMAEGAISCGAVTSDLSPCLTYLTGGPGPSPQCCGGVKKL
LAAANTTPDRQAACNCLKSAAGSITKLNNTNAAALPGKCGVNIPYKISTTTNCNTVKF

>accession|AAX37288.1|Putative tropomyosin [Penaeus monodon]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQOLENDLDQV
QESLLKANIQLVEKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|AAX37321.1|Putative glutathione transferase mu class
Yv5004H11 [Sarcoptes scabiei type hominis]
MSSKPTLGYNIRGLAQPIRMMLSYAGVDFVDKRYNYGPAPDFDRSEWLNEKFNGLDFP
NLPYYIDGDVCLTQSLAILRYLARKHKLDGHNEQEWLRIALCEQQIVDLYMAMGRISYDP
NFEKLPDYLEKLPDNLKLFSEFLGDHPFVAGTNLSYVDFVYVYELIRLKAMTPEVFAK
QNLGNYVNRFESEMPKISAYLKQQQPQFFNGLMAKWNMKY

>accession|AAX37326.1|Putative glutathione transferase mu class
Dp7019C10 [Dermatophagoides pteronyssinus]
MSQPILGYWDIRGYAQPIRLLLTYSGVDFVDKRYQIGPAPDFDRSQWLNEKFNGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNGSNDHEEIRISMAEQQTKDMAAMIRVCYDAN
CDKLPDYKSLPDCLKLMKSFVGEHPFVAGANISYVDFYLYEYLCRVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQPKTFNAPTSKWNASYA

>accession|AAX40948.1|Allergen allergen Ziz m 1 [Ziziphus
mauritiana]
MVPQAKLVVASLILTSALIQTSEAVGGIATYWGYTETEEGSLAEACASNLYSYINIAYL
NIFGEGRYLSLNSGHCSCTFLGEEIKACQSQGVKIFLSLGGPYGDYHLTTDGDADRVA
EQLWSSFLGGSKSTGVYQPLLGDVELDGDIDLIQIGPPEEYDVLARNLKDLDLTKDRTRPFY
LSAAPKCSAYNDSAYLWTAVETGLFDFVWVKFYNDTSCQYNNDTAAGLDAFYRSWYDWT
VSLAEGNKLKLLIGIPASNETDNSPLGGYIPSDVLNDQIVSVIMTSSKFGGVNVWNRYYDLK
TNYSSSIILEYVNSGTKYLPLRRTKFMYQNA

>accession|AAX47076.1|Allergen Der p 1 allergen
[Dermatophagoides pteronyssinus]
NEIAXAKIDLRQMRVTPIXMGGCGSCWALSQVAATESAYLAYGNXSLDLAEQELVDCA
SQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNK
IREALAQTHSAIAVIIGIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSNAQGVVYD
IVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVIL

>accession|AAX57578.1|Putative BW 16kDa allergen [Fagopyrum
esculentum]

RDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDILDDKYAEALS RVEGEGCKSEES
CMRGCCVAMKEMDDECVCCEWMKMMVENQKGRIGERLIKEGVRDLKELPSKCGLSEMECGS
RGNRYFV

>accession|CAI77218.1|Allergen hyaluronidase b [Vespula
vulgaris]
DRTIWPKKGFSIYWNIPTHFCHNFGVYFKELKQFNKYNSMNNFRGETISLIFYDPGNFPS
MVLKNGTYEIRNEGVPOKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETS AKIFMEKTLKLAKEIRKKTEWG
YHGYPHCLSGSTDKPSFDCDALSMSSENDKMSWLFNNQNVLLPSIYLKNVLPDEKIHVQ
ERLKEAIRISKNFKHLPKVLPYWWYTYQDKESIFLTEADVKNFTFKEILTNGADGIIIGWV
SYELTDRKRCEKLKEYLMKILGPIAFKVTKAVKENTPLNF

>accession|AAX77383.1|Allergen 11S globulin precursor [Sinapis
alba]
MVKLAHLLVATVGVLLVNLGCLARQSLGVPPQVKDACNLDNLDVLPQTEVIKSEAGQVEY
WDHNNHPQIRCAGVSIARLVIQKGGYLPFFSSPFI SYVVQGMGISGRVIPGCAETFMSD
QPMQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQGFQFRDMHQK
VEHVRHGDAIAMTPGSAQWIYNTGDQPLIIIVSLIDIANYQNQLDRNPRTFRLAGNNQQGS
SQQQQQQQQNILSGFDPQVLAQALKIDVRLAQELQNNQDKRGNIVRVKGPFPVVRPPLRQ
AYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPNLGRVTSVNSYTLP
ILQYIRLSATRIGILQGSAMVLPKYNMNEANEILYCTQGQARIQVVNDNGQNVLDQQVQKGG
LVVIPQGFAYVVQSQNNFEWISFKTNANAMISTLAGRTSALRALPLEVITNAYQISLEEA
RKIKFNTLETTLTRARGGQQPQLIEEIVEV

>accession|AAX77384.1|Allergen 11S globulin precursor [Sinapis
alba]
MVKLAHLLVATVGVLLVNLGCLARQSLGVPPQVKDACNLDNLDVLPQTEVIKSEAGRLEY
WDHNNHPQIRCAGVSIARLVIEQGGFYLPFFSSPKISYVVQGMGISGRVIPGCAETFMSD
QPMQGGQQGGHQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGG
GQQGFRDMYQKVEHVRHGVDVIANTPGSAHWIYNTGDKPLVIIISLLDIANYQNQLDRNPRV
FRLAGNNPQGGFGGPPQQQPQQNINLNGFDPQVIAQALKIDVRLAQELQNKQDSRGNIVRV
KGPFPVVRPPLRQAYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPN
LGRVTSVNSYTIPILQYIRLSATRIGILQGSAMVLPKYNMNEANEILYCTQGQARIQVVNDN
GQNVLDQQVQKGGQLVIPQGFAYVVQSQNNFEWISFKTNANAMISTLAGRTSALRALPLE
VITNAFQISLEEARKIKFNTLETTLTRARGGQQPQLIEEIVEV

>accession|AAX77684.1|Allergen calcium-binding protein
isoallergen 1 [Ambrosia artemisiifolia]
MAEEDKAERDRIFGAFDANKDGKISSTELGESLKNLGSVSPEEVQTMMEELDTGDGFI
SYEEFTDFYNANRGLMKDVGKIF

>accession|AAX77685.1|Allergen calcium-binding protein
isoallergen 2 [Ambrosia artemisiifolia]
MAEDEDKAERDRIFGAFDANKDGKISSNELGEALKNLGSVSPEEVQTMMEELDTGDGFI
SYEEFTDFYNANRGLMKDVGKIF

>accession|AAX77686.1|Putative calcium-binding protein [Ambrosia
artemisiifolia]
MAPENNKHSIFPTDKEEVTKIFNRFDTNQDQISEDELFAILKSLGSDTSPDEVKRVMAE
IDADGDGFI SLDEFILFCKGIESEGDEINLKEAFKFYDQNNNGVISANELHQILGRLGE
NYSVESCADMIKSVSDSDGDFVDFEEFRKMMSRKGGDGAM

>accession|AAX77687.1|Allergen profilin isoallergen 1 [Ambrosia
artemisiifolia]

MSWQTYVDEHLMCDIEGTGQHLASAAIFGTDGNVWAKSSSFPEFKPDEINAIIKEFSEPG
ALAPTGLFLAGAKYMIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEPPVNPQGQCNMV
VERLGDYLVLDQGM

>accession|AAX77688.1|Allergen profilin isoallergen 2 [Ambrosia
artemisiifolia]

MSWQTYVDEHLMCDIDGSGHLLSSAAIFGTDGAVWAKSGSFPEFKPDEINAIIKEFDAAG
TLAPTGLFLAGAKYMIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEPPVAPQGQCNMV
VERLGDYLVLDQGM

>accession|CAI78902.1|Allergen putative gamma-gliadin [Triticum
aestivum]

MQVNPSVQVQPTQQQPYPESQQPFISQSQQQFPQPQQPFPQQPQQPFPQSQQQCLQQPQH
QFPQPTQQFPQRPLLPFTHPFLTFFDQLLPQPPHQSFPPQPPQSYPPQPLQPPFPQQKY
PEQPQQPFPWQQPTIQLYLQQQLNPKCEFLQQRVSLLSYLWSKIVQQSSCRMVQQQC
CLQLAQIPEQYKCTAIDSIVHAI FMMQQGQRQGVQIVQQQPQPQQVGGQCVLVQGGVQVQPQ
QLAQMEAIRTLVLQSVPSMCFNFPNCSTIKAPFVGVVTVGVGGQ

>accession|AAX85388.1|Putative Amb a 1-like protein [Artemisia
vulgaris]

MEKHVFVILFTA AFVFGAAARADIGDELEAAQFNSTRRGLHECAAHNIIDKCWRCKADW
EKNRQALAKCAQGFAGTGTGLGGEIYVVTDCSDDNAANPKPGTLRCGVTQDKPLWIIFK
KDMVIKIKHELVIKDKTIDGRGANVEITCGGLTIHNCNVI IHNIIHDIKIVTEGGI IK
ATDAKPGHRHKS DGDGICVAGSSKIWDHCTLSHGPDGLIDVTLGSTAVTISNCKFSHHQ
KILLLGADNSHVDDKMHVTVAFNRF AEACDQRMPRCRFGFFQVVNNDYTSWGTYAIGGS
ANPTILSQGNRFHAPNDPMKKNVLRADAPHTESMKWNWRSEKDLLENGAIFVASGCDPH
LTPEQKSHLIPAEPGSAVLQLTSCAGTLKCVPGKPC

>accession|AAX85389.1|Allergen polcalcin [Artemisia vulgaris]
MADEDKAECDRIFGAFDKNKDGIKISAAELGESLTKLGSVSPPEEVQTMDELDTDGDGYIS
YDEFAEFFNANRGLMKDVGKIF

>accession|CAI79052.1|Putative putative LMW-glutenin subunit
[Triticum aestivum]

MSHIPGLERPSQQQPLRPQQTLSSHQQQPIQQQPQQFPQQQPCSQQQQQPPLSQQQQPP
FSQQQQPPFSQQQQPVLPQQPSFSQQQLPPFSQQQQPPFSQQQQPVLPQQPSFSQQQLPP
FSQQQLPPFSQQQQPVLLQQQIPFVHPSILQQLNPKVFLQQQCSPVAMPQSLARSQMLQQ
SSCHVMQQQCCQQLPQIPQQSRYEAIRAIVYSIILQEQQQVQGSIQTQQQQPQQLGQCVS
QPQQQSQQQLGQCSFQQPQQQLGQQPQQQQIPQGI FLQPHQISQLEVMTSIALRTLPT
MCGVNVPLYSSTTIMPF SIGTVGGY

>accession|1YG9_A|Allergen Chain A, The Structure Of Mutant
(N93q) Of Bla G 2 [Blattella germanica]

GASIVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCNVVVASQECVGGACVCPNLQK
YEKLPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELSQEVCSILSA
DVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHARFQDGEHFGEIIFGGSDWKYV
DGEFTYVPLVGDSDWKFRLDGKIGDITTVAPAGTQAIIDTSKAIIVGPKAYVNPINEAIG
CVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNISSQYI IQQNGNLCYSGFQPXGHS
HFFIGDFFVDHYYSEFNWENKTMGFGRSVE

>accession|AAY21180.1|Putative major royal jelly protein 9 [Apis
mellifera]

MSFNIWWLILYFSIVCQAKAHYSLRDFKANIFQVKYQWKYFDYNFGSDEKRQAAIQSGEY
NYKNNVPIDVDRWNGKTFVTILRNDGVPSSLNVISNKIGNGGP LLEPYPNWSWAKNQNC
GITSVYRIAIDEWDRLLWVLNNGISGETSVCP SQIVVFDLKN SKLLKQVKIPHDIAINSTT

GKRNVTPIVQSFQDYNNTWVYIADVEGYALIIYNNADDSFQRLTSSTFVYDPRYTKYTIN
DEFSLQDGLGMALSHKTQNLVYSSAMSSHNLNLYVNTKQFTQGKFQANDIQYQGASDILW
TQASAKAISETGALFFGLVSDTALGCWENRPLKRRNIEIVAKNNDTLQFISGIKIKQI
SSNIYERQNNIYIWIWSNKYQKIANGDLNFNEVNFRIILNAPVNLIRYTRCENPKTNFFS
IFL

>accession|CAI64396.1|Putative serine carboxypeptidase II
[Triticum aestivum]
GNGLIDYHDYVGTFFFWWNHGLVSDDTYQRLREACLHDSFIHPSACDAATDVATAEQG
NIDMYSLYTPVCNITSSSSSSSSSSLSQRRSRGRYPWLTGSYDPCTERYSTAYNRRDVQ
TALHANVTGAMNYTWTSCSDTINTHWHDA PRSMLPIYRELIAAGLRIWVFSGDTDAVVP
TATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRPRQALVL
FQYFLQGKPMPGQATNATVA

>accession|CAI64397.1|Putative putative leucine-rich repeat
protein [Triticum aestivum]
KPVAANQDVDALSALRRGLQDPNGELKNWDANLVDACTWSHITCDRDNNRVTRIDLKMN
LSGPLAPELGLDRLQYLEIDHNRLTGPIPRELAGLSNLKHADFSNNNLGCIPTTGAFO
RIPRSSFANNPRLGRKC

>accession|CAI64398.1|Putative 5a2 protein [Triticum aestivum]
IAVAVSADECEGDRRAMIKECAKYQQWPANPKLDPDACCVAWQKANIPCLCAGVTKEKE
KIYCMKVVAYVANFCKKPFPHGYKCGSYTFPPLA

>accession|CAI64400.1|Putative thioredoxin h1 protein [Zea mays]
MAASEAAAAAATPVAPTEGTIVIAIHSLEEWISIQIEEANS AKKLVIDFTATWCPPCRAMA
PIFADMAKSPNVVFLKVDVDEMKTIAEQFSVEAMPTFLFMREGDVKDRVVGAAKEELAR
KLELHMAS

>accession|EAL89830.1|Putative major allergen Asp F2
[Aspergillus fumigatus Af293]
MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALGEGWGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGGATTTPTDSPSATIDVPPVRT
VRIS

>accession|AAY83341.1|Allergen non-specific lipid transfer
protein precursor [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKSGGAVPAACCNGIRSL
NSAAKTTADRQATCNCLKQASGAIKGLNP SLAAGLPGKCGVSVPYKISTSTNCAAVK

>accession|AAY83342.1|Allergen non-specific lipid transfer
protein precursor [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPCVTYVKSGGAVPAPCCSGIRNL
NGMAKTTADRQATCNCLKQAAGGIKGLNP NLAAGLPGKCGVSVPYKISTTTNCAAVK

>accession|AAY83345.1|Allergen non-specific lipid transfer
protein precursor [Fragaria x ananassa]
MAISTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKSGGAVPAACCNGIRSL
NSAAKTTADRQATCNCLKQASGAIKGLNP NLAAGLPGKCGVNPYKISTSTNCAAVK

>accession|AAY84563.1|Putative group 18 allergen protein
[Dermatophagoides pteronyssinus]

SEQGQQPGQGKQPGQGQQGYYPPTSPQQSGQGQQLGQGQPGYYPTSPQQSGQGQQSGQGQQ
GYYPPTSPQQSGQGQQPGQGQSGYFPTSRQQSGQGQQPGQGQQSGQGQQGQQPGQGQQAYY
PTSSQSRQRQQAGQWRPQGQPGYYPTSPQQPGQEQQSGQAQQSGQWQLVYYPTSPQQ
PGQLQPPAQGQQPAQGQQAQEQPGQAQQSGQWQLVYYPTSPQQPGQLQPPAQGQQGY
PTSPQQSGQGQQGYYPPTSPQQSGQGQQGYYPPTSPQQSGQGQQPGQGQQPRQGQQGYYPIS
PQQSGQGQQPGQGQQGYYPPTSPQQSGQGQQPGHEQQPGQWLQPGQGQQGYYPPTSSQSGQ
GHQSGQGQQGYYPPTSLWQPGQGQQPGQGQQGYASPHYVSAEYQAARLKVAKAQQLAQLP
AMCRLEGS DALSTRQ

>accession|CAJ19705.1|Allergen non-specific lipid transfer
protein [Solanum lycopersicum (Lycopersicon esculentum)]
MEMVNKIACFVLLCMVVVAPHAERALTCGQVSTLAPCLPYLMNRGPLRNCCDGVKGLLGQ
AKTTVDRQAACCTCLKSAASSFTGLNLGKAAALPNTCSVNIPIYKISPSTDCSKVQ

>accession|AAZ76743.1|Allergen Pen a 1 allergen [Farfantepenaeus
aztecus]
MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|1WKX_A|Allergen Chain A, Crystal Structure Of A Hev B
6.02 Isoallergen [Hevea brasiliensis]
EQCGRQAGGKLCPDNLCCSQWGWCGSTDEYCSPDHNCQSNCKD

>accession|P0C088.1|Allergen Nonspecific lipid-transfer protein
(LTP) (Pollen allergen Art v 3) [Artemisia vulgaris]
ALTCSDVSNKISPCLSYLKQGGVEVPADCCAGVKGLND

>accession|BAE20328.1|Allergen omega-5 gliadin [Triticum
aestivum]
MKTFFIIFVLLAMAMNIASASRLLSRPGKELHTPQEQFPQQQQFPQPQQFPQQQIPQQHQI
PQQPQQFPQQQQFLQQQQIPQQQIPQQHQIPQQPQQFPQQQQFPQQHQSPQQQFPQQQFP
QQKLPQQEFPQQQISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQFPQQHQFPQQQLPQQQ
QIPQQQQIPQQPQQIPQQQQIPQQPQQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQIA
RQPQQLPQQQQIPQQPQQFPQQQQFPQQQSPQQQFPQQQFPQQQLPQKQFPQPQQIPQ
QQQIPQQPQQFPQQQFPQQQFPQQQFPQQQFPQQQFHQQQLPQQQFPQQQFPQQQFPQ
QQQFPQQQQLTQQQFPRPQQSPEQQQFPQQQFPQQPQQFPQQQFPPIPYPQQSEEPSY
QQYPQQPSGSDVISISGL

>accession|AAZ91659.1|Putative polygalacturonase [Lilium
longiflorum]
MASISSARLLLLSSVLLIVKLTAGLVPETKVNKVSFGAVGDGKTDSTQAILRAWDQACNG
FGKQRVIVPEGVYLTGPMAFRGPCNGFISMQVRGELRAYGDVKGYPNAKWVSYEDLNGLL
VTGGGRFNAQGSQAWTQND CSTKKNCALLTTSVKFDHCTNATIRRINSIDSKFFHIAIDQ
CTDITVHHINITAPGTS PNTDGIHIGRSTNVNINISNAI IGTGDDCISLPGSSHITISKVQ
CGPGHGISVGSLSGRYMNEENVWDVKVKNCTLTGTTNGVRIKTKWGSSPSEASQFIFQDIE
MREVQNPIIIDQEYCSYDYCANNPPAPSKVKLSDIQFMNIKGTSTSKVAINLICSSAVPC
EGIQLSDISLKYIRAGKPTMANC SHVSGTTSGLVSPSPSCIKGADVSLFTTQML

>accession|CAJ28930.1|Allergen Ves g 5 allergen precursor
[Vespula germanica]
NNYCKIKCLKGGVHTACKYESLKPNCANKKVVAYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLWVNDLAYIAQVWANQCQYGHDTCRDVAKYPVGQNVALTGSTA

mellifera]

MSVIAILAMVVGQVQAEKQINVI FRHGDRIPDEKNEMYPKDPYLYYDFYPLER GELTNSG
KMREYQLGQFLRERYGDFLGDIIYTESVSALSSFYDR TKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRRYEDNIFLPEDCLLFTIELDRVLES PRGKYEF SKYDKLKKKLEEW TG
KNITTPWDY YYYIYHTLVAEQSYGLTLP SWTNNI FPRGELFDATVFTYNITNSTPLLK KLY
GGPLLRI FTKHMLDVVSGTQKKKRKIYLFSGHESNIASVLHALQLYYPHVPEYSSSIIME
LHNI EGT HYVKIVYYLGI PSEARELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFV
DESANNLSIEELDFVKLNLIRIAGTENK

>accession|Q7M4I3.1|Putative RecName: Full=Venom protease;
AltName: Allergen=Bom p 4 [Bombus pennsylvanicus]
VVGKPAKLGAWPVMVALGFHNYRQPKKSPEWKCGSLRISRHVLTAAHCAIHRSLYVVR
IADLNLKRDDDGAHP IQMGIESKLIHPDYVYSEHHDDIAILKLEKDV SFSEYIRPICLPI
EESLRNNNFIGYNPFVAGWGRRLRYKGPLSDALMEVQVPVVRNKVCKRAYSDVSDTVICAG
YPKGRKDSCQGDSSGGLMIPQESTYYEIGVVSYGHECALPKYPGVYTRVTSYLD SFILPA
LKK

>accession|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]
SAGPFRIPKCRKEFQQAQHLRACQQLHKLQAMQSGSGPQGPQQR PPLLQCCNELHQEEP
LCVCPTLKGASRAVKQQVRQQGQQGQLQQVISRIYQTATHLPKVCNIPQVSVCPFQKT
MPGPS

>accession|P82952.1|Putative Seed allergenic protein 2 (Conglutin
gamma) (Allergen Pru du ?) [Prunus dulcis]
TKSQTHVPIRPNKLV LKVQKDRATN

>accession|Q647G9.1|Allergen RecName: Full=Conglutin; AltName:
Allergen=Ara h 6; Flags: Precursor [Arachis hypogaea]
MAKSTILVALLALV LVAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQE
QYDSYDIRSTRSSDQQQRCCDELNEMENTQRCMCEALQQIMENQCDRLQDRQMVQQFKRE
LMNLPQQCNFRAPQRCDDL DVSGGRC

>accession|Q7M1E8|Putative Pollen major allergen Par o I
[Parietaria officinalis]
ATGKV VQGAMPP

>accession|Q7M1L8|Allergen Pollen allergen Phl p V [Phleum
pratense]
DLGYAPATPAAPGAGYTPATPAAP

>accession|Q7M1X6|Putative Group I allergen Ant o I (Form 1),
pollen [Anthoxanthum odoratum]
IAKVPPGNITATYGDKWLDAKSTWYGKPTGA

>accession|Q7M1X7|Putative Group I allergen Agr a I (Form 2),
pollen [Agrostis alba]
IAKVPPGNITADYGDKWLDAKSTWYGKPTGAGPK

>accession|Q7M1X9|Putative Group I allergen Agr a I (Form 1),
pollen [Agrostis alba]
IAKVPPGNITATYGDKWLDAKSTWYGKPTGAGPK

>accession|Q7M1Y0|Putative Group I allergen Ant o I (Form 2),

pollen [Anthoxanthum odoratum]
IAKVPPGNITADYGDKWLDKSTWYGKPTGA

>accession|Q7M1Y1|Putative Group I allergen FeS e I, pollen
[Schedonorus arundinaceus]
IAKVPPGNITAEYGDWLDKSTFYGKPTGAGPK

>accession|Q7M262|Allergen 30K allergen [Holcus lanatus]
ADAGYTPAAPAATGAGGDAT

>accession|Q7M263|Putative 30K allergen [Secale cereale]
ADAGYAPAAPGTQPKA

>accession|O22108|Putative LMM glutenin 1 [Triticum aestivum]
RCIPGLERPWQQQLPFPQQPLFSQQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQLVLPQQSPFSQQQLLILPPQQQQQLPQQQISIVQPSVLQQLNPKV
FLQQQCSVPAMPQRLARSQMWQQSSCHVMQQCCQQLSQIPEQSRDAIRAITYSIILQE
QQQGFVQAQQQPQQSGQVQSQQSQQQLGQCSFQQPQQQLGQQPQQQVQQGTFLQP
HQIAHLEVMTSIALRTLPMCSVNVPLYSSTTSVPPFGVGTGVGAY

>accession|O23791.1|Allergen Bromelain precursor (Allergen Ana c
2) [Ananas comosus]
MASKVQLVFLFLFLCAMWASPSAASRDEPNPMMKRFEEMAEYGRVYKDDDEKMRRFQI
FKNNVKHIETFNRSRNSYTLGINQFTDMTKSEFVAQYTGVSPLNLEREPVVSFDDVNI
SAVPQSIDWRDYGAVNEVKNQNPCGSCWSFAAIATVEGIYKIKTGVLVSLSEQVLDCAV
SYGCKGGWVNKAYDFIISNNGVTTTEENYPYLAYQGTNANSFPNSAYITGYSYVRNDER
SMYAVSNQPIAALIDASENFQYYNGGVFSGPCGTSLNHAITIIGYQDSSGTTYWIVRN
SWGSSWEGGYVRMARGVSSSSGVCGIAMAPLFPPTLQSGANAIEVIKMVSET

>accession|Q94JN2.1|Putative RecName: Full=Profilin; AltName:
Full=Minor food allergen Ana c 1; AltName: Allergen=Ana c 1
[Ananas comosus]
MSWQAYVDDHLMCEIDGQHLSSAAILGHDSTVWAQSPNFPQFKPEEISAILNDFENPGSL
APTGLYLGGTKYMIQGEPEGVVIRGKKTGGITVKKTNLALIIGVYDEPMPGQCNMVVE
RLGDYLLEQGF

>accession|O22116|Putative LMM glutenin 3 [Triticum aestivum]
ASAVAQISQQQPPPPFSQQQPPPPFSQQQPPPPFSQQQSPFSQQQPPPPFSQQQPPPPFSQQ
PLISQQQLPFSQQQPPFSQQQPPYSQQQPPYSQQQPPFSQQQPPPPFSQQQPPFSQQQPSFS
QQQQPPFTQQQPPFSQQSPISQQQQQQQQQQQPPFTQQQPPFSQQPPISQQQPPFS
QQQPPFSQQQIPVIHPSVLQQLNPCMVFLOQCIPVAMQRCLARSQMLQOSICHVMQR
QCCQLRQIPEQSRHESIRAIYSIILQQQQQQQQQQQQQGSIIQYQQQPPQQLGQCV
SQPQQQLQQQLGQQPQQQLAHGTFLQPHKIAQLEVMTSIALRTLPRMCSVNVPLYETTT
SVPLGVGIGVGVY

>accession|Q6W8Q2.1|Allergen RecName: Full=1-Cys peroxiredoxin
PER1; AltName: Full=Rehydrin homolog; AltName: Full=Thioredoxin
peroxidase [Triticum aestivum]
MPGLTIGDTPVPLELDSTHGKIRIHDYVNGYVILFVSHPGDFTPVCTTELAAMANYAKEF
EKRGVLLGISDQVQSHKEWTKDIEAYKPGSKVTYPIMADPDRSAIKQLNMVDPDEKDA
EGQLPSRTLHIVGPDKKVLSFLYPSCTGRNMDEVVRAVDSLLTAAKHKVATPANWNPGE
CVVIAPGVSDDEAKMFPQGFETADLPSKKGYLRFRTKV

>accession|ABA39435.1|Allergen Der p 1 allergen precursor,
partial [Dermatophagoides pteronyssinus]

RPSSIKPFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIGIKDLDAFRHYDGRITIIQ
RDNGYQPNYHAVNIVGYSNAGQVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>accession|ABA39436.1|Allergen Der f 1 allergen precursor
[Dermatophagoides farinae]
RPASIKTFEEFKKAFNKNYATVEEEVARKNFLESVKYVEANKGAINHLSDSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRLRTVTPIRMQGGCGSCWAFSGV
VAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYVAR
EQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVIGIKDLRAFQHYDGRITIIQ
QRDNGYQPNYHAVNIVGYGSTQGVYDQWIVRNSWDTT

>accession|ABA39437.1|Allergen Der p 2 allergen precursor
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVTVKVLGDNGVLACA
IATHAKIRD

>accession|ABA39438.1|Allergen Der f 2 allergen precursor
[Dermatophagoides farinae]
DQVDVKDCANHEIKKVMVDGRHGSDPCIHRGKPFQLEALFDANQNTKTAKIEIKANING
LEVDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVTVKVLGDNGVLACA
IATHAKIRD

>accession|ABA42918.1|Putative putative alpha/beta hydrolase
superfamily protein [Davidiella tassiana]
MPAGLQYVTTDGGRLAVEITGKETDPLVICSPGMGDTRDAYKPLAKVLVSNGYRVAAMDA
RAHGESSAKFARYGDEATADDFLTVANLSPGSPVVLGASFSAAAATIAAAKQPERVSK
IILLGPFRLRNGMGVVGLWLMVPMFAWPWGPAAWEMYAATLWPGLEGDGAKKRAATTRASL
TRPGRWAGFQALISSLDHRVVAPYISSVRAPALVVMGDKDPDWSDPKVEAEWVASNFSQV
DTLMVPEAGHAPMYERPQVVAERVLSFLGDQTNV

>accession|CAA55071.2|Putative aldehyde dehydrogenase (NAD+)
[Alternaria alternata]
MTSVKLSPTQTEFEQPTGLFINNEFVKAVDVGKTFDVINPSTEEVICSVQEATEKDVDIA
VAAARKAFNGPWRKETPENRGKLLNKLADLFEKNADLIAAVEALDNGKAFSMAKNVDVPA
AAGCLRYGGWADKIEGKVVDTAPDSFNIRKEPIGVCGQIIPWNFPILMWSWKIGPAIA
TGNTVVLKTAEQTPLSAYIACKLIQEAGFPFPGVINVITGFGKIAGAAMSAHMDIDKIAFT
GSTVVGRQIMKSAAGSNLKKVTLELGGKSPNIVFADADLDEAIHVVNFGIYFNHGQACCA
GSRIYVQEEIYDKFIQRFKERAQAQNAVGDPPAADTFQGPQVSQQLQFDRIMGYIEEGKKS
GATIEGTGNRKGDKGYFIEPTIFSNVTEDMKIQQEEIFGPVCTISKFKTKADVIGKGNNTT
YGLAAAVHTSNLTTAIEVANALRAGTVVWNSYNTLHWQLPFGGYKESGIGRELGEAALDN
YIQTKTVSIRLGDVLF

>accession|CAA55072.2|Putative aldehyde dehydrogenase (NAD+)
[Davidiella tassiana]
MTSVQLETPHSGKYEQPTGLFINNEFVKQEGKTFDVINPSDESIVITQVHEATEKDVDIA
VAAARKAFEGSWRQETPENRGKLLNLANLFEKNIDLLAAVESLDNGKAISMAKGDISM
VGCLRYGGWADKITGKVIDTTPDTFNKYKKEPIGVCGQIIPWNFPILMWSWKIGPAIAC
GNTVVLKTAEQTPLGGLVAASLVKEAGFPFPGVINVISGFGKVAGAALSSHMDVDKVAFTG
STVVGRITILKAAASSNLKKVTLELGGKSPNIVFEDADIDNAISWVNFGIFFNHGQCCAG
SRVYVQESIYDKFVQKFKERAQKNVVGDPFAADTFQGPQVSKVQFDRIMEYIQAGKDAGA

TVETGGKRKGDKGYFIEPTIFSNVTEDMKIVKEEIFGPPVCSIAKFKTKEDA I K L G N A S T Y
GLAAAVHTKNLNTAIEVSNALKAGTVVWNTYNTLHHQMPFGGYKESGIGRELGEDALANY
TQTKTVSIRLGDALFG

>accession|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]
TMEHYLKTYLSWLTTEEQKEKLKEMKEAGKTKAEIQHEVMHYDQLHGEEKQQATEKLVG
CKMLLKG I I GEEKVVELRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKKI
FGATTLQHRRRRHHFTLESSLDTHLKWLSQE QKDELLKMKKDGKTKKELEAKILHYYDE
LEGDAKKEATEHLKGGCGEILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDE
EKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQE QKDELLKMKKDGKAK
KELEAKILHYYDELEGDAKKEATEHLKGGCAEILKHVVGEEKAAELKNLKD SGASKEELK
AKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQE QK
DELLKMKKDGKTKKDLQAKILHYYDELEGDAKKEATEHLKDGCREILKHVVGEEKAEELK
KLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPACKKIFGAAHTSRRRRHHFTLES
SLDTHLKWLSQE QKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREI
LKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVH
TSRRRRHHFTLESSLDTHLKWLSQE QKDELLKMKKDGKAKKELEAKILHYYDELEGDAK
EATEHLKGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIA
DFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQE QKDELLKMKKDGKAKKELEAKI
LHYYDELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEAL
HAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKWLSQE QKDELLKMK
KDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKNLKD SGA
SKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHHFTLESSLDTHLKW
LSQE QKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEHLKGGCREILKHVVGEE
KAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRHH
FTLESSLDTHLKWLSQE QKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKEATEHLK
GCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIADFGPACK
KIYGVHTSRRRRYHAEDGTDDIDGLAQSRRSGFFFEKLIDVFAFF

>accession|ABA81885.1|Putative profilin-like [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGVMNDFAE PGTL
APTGLYLGGTKYMIQGE PGAVIRGKKGPGGITIKKTNQALIIGIYDEPMPGQCNMIVE
RLGDYLVEQGL

>accession|BAE46763.1|Putative dark muscle parvalbumin
[Trachurus japonicus]
MAFKGVLNDADVTAALDGCKSAFDHKAFFKACGLAAKSADDIKKAFAIIDQKSGFIEED
ELKLFQNF CAGARALSDAETKAF LKAGSDGDGKIGVDEFAAMVKH

>accession|ABB16985.1|Putative profilin-like protein [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEISGIMNDFAE PGTL
APTGLYLGGTKYMIQGE PGAVIRGKKGPGGITIKKTNQALIIGIYDEPMPGQCNMIVE
RLGDYLVEQGL

>accession|CAI43283.4|Putative mala s 12 allergen precursor
[Malassezia sympodialis]
MKGIVSWAVVSAALVLSATESLAFANVSSFEKRTTTGNGWDL D G K S Y D Y V I V G G G T A G L V
LANRLSANQGT TVAVIEAGNSGYDDNDKFVVPDANLYNSAVNTQYDWQFHTSSQKHMNNR
RASWPRGKVLGGSSAVNGLYYVRPSETEVN VWSKLAGGSGRWSWNSLLSGMKKSEHFRGP
VKS V Q N Q L Q I Q Y N A G S H G S N G P I G T T W P A V T Y D P V E R F I K T A D S M S G A I N N D P Y N G N N H G

TYVALSSIDKTNWQRSFSRNGYLDPI SKRSNLHVLTGHTVTGIIFDRSGKNAQATGVHYA
ASSNEASHTVHANKEVIIISGGAINSPQILQLSGIGDKNLLNGLGIDVVVDLPGVGENLQD
HVSAGMSFKPKNKKDAGPTSVTGDAKADSYVNSAVSYTSLGKLFNNKDSILGKIQARAKQ
IADSHNVSPAVKQGQSKAYNALADTIFPSKVSPVEILGNVMFGSISIQAALQHPLSRGSI
KITSKDPFAYPKINPNYFAENLDLVLLREGFKLIREMSQQSPLKDVDFETVPGDKVQTN
EDWENWIRSAAGTEYHPSSTCAMLPRGDGGVVDENLKVYGTSNLRVVDASVTPIAMSCHL
ESVVYGLAEVAADIILGN

>accession|AAV84564.2|Putative group 15 allergen protein
[Dermatophagoides pteronyssinus]

MKTSCAILILMACFGLMNAAVKRDHNNYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFIDEYKYTIQVFDPYQDDNHTWEKHGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSMDVANPTYRQQFVQSVLDFLQEQYKFDGLDLDWEYPGSRLGNPKIDKQNYLTLV
RELKEAFEPFGYLLTAAVSPGKDKIDVAYELKELNQLFDWMNVMTYDYHGGWENVFGHNA
PLYKRPDETDDELHTYFNVNYTMHYLLNNGATRDKLVMGVPPFYGRAWSIEDRSKVKLGDP
KGMSPPGFITGEEGVLSEIQLCQLFQKEEWHIQYDEYYPYGYNDKIWVGYDDLASISC
KLAFLKELGVSGVMIWSLENDDFKGCYKPKYPLLNKVNMMINGDEKNSYECLLGPSTTTP
TPTTPTSTPTTPTPTTPTSTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTT
STTTPTTPTTDDSTSETPKYTTYVDGHLIKCYKEGDLPHPTNIHKYLVCEYVNGGWWHIM
PCPPGTIWCQEKLTCTE

>accession|ABB52642.1|Allergen tropomyosin [Dermatophagoides
pteronyssinus]

MEAIKMKQAMKLEKDNADRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMRKMLEHRSITDEERMEGLENQSKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSSISDELQDTFAEL

>accession|Q63213|Putative Alpha-2u globulin [Rattus norvegicus]

MKLLLLLLCLGLTLVCGHAEAEASFERGNLDVDKLNWDWFSIVVASDKREKIEENGSMRVF
VQHIDVLENSLGFTRIKENGVCTEFSLVADKTAKDGEYFVEYDGENTFTILKTDYDNYV
MFHLVNVNNGETFQLMELYGRTKDLSSDIKEKFAKLCVAHGITRDNIIDLTKTDRCLQAR
G

>accession|ABB78006.1|Allergen major allergen Pru p 1 [Prunus
persica]

MGVFTYESEFTSEIPPPRLFKAFLVLDADNLVPKIAPQAIAKHSEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSIDKENHSYSYTLIEGDALGDNLEKISYETKLVASPSGGSIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>accession|ABB88514.1|Putative arginine kinase [Bombyx mori]

MVDAATLEKLEAGFSKLGSDSKSLLKYLTRVFDLSLKNKTSFGSTLLDCIQSGVENL
DSGVGIYAPDAESYSVFAELFDPIIEDYHNGFKKTDKHPPKNWGDVDTLGNLDPAGEFVV
STRVRCGRSLEGYPFNPCLTESQYKEMEDKVSGLTSSLEGELKGTFFYPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPTGRGIYHNENKTFVWCNEEDHLRIISMQMGGDLQQ
VYKRLVSAVNEIEKKIPFHHDRLGFLTFCTNLGTTVRASVHIKLPKLAADKKKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKRRLMGLTEYDAVKEMYDGAELIKIEKSL

>accession|ABB89296.1|Putative allergen Bla g 6.0101 [Blattella
germanica]

MDELPPPEQIQLLKKAFDAFDREKKGCISTEMVGTILEMLGHRLLDDMLQEIIAEVDADGS
GELEFEFEFVSLASRFLVEEDAAMQQELREAFRLYDKEGNGYITTNVLRREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>accession|ABB89297.1|Putative allergen Bla g 6.0201 [Blattella germanica]
MDEIPAEQVVLKKAFAFDREKKGCISTEMVGTILEMLGTRLDQDMLDEIIAEVDADGS
GELEFEEFCTLASRFLVEEDAEMQHELREAFRLYDKEGNGYITTAVLREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>accession|ABB89298.1|Putative allergen Bla g 6.0301 [Blattella germanica]
MADEQLQLPPEQISVLRKAFDAFDREKSGSISTNMVEEILRLMGQPFNRRRTLEELIDEVD
ADKSGRLEFDEFVTLAAKFIIIEEDSEAMEKELREAFRLYDKEGNGYIPTSLREILRELD
EQLTSDELDMMIEEIDADGSGTVDFDEFMEMMTG

>accession|ABB89950.1|Putative catalase [Penicillium citrinum]
MHLAFAFDLVIANAACPYMTGEVPGDYSPELHRRADDEGAADNTEEFLSQFYLNKDA
YLTSVGGPIEDQNSLSAGERGPTLLEDIFRQKIQHFDHERVPERAVHARGAGAHGVFT
SYADWSNITAASFLSKKDKETPMFVRFSTVAGSRGSADTARDVHGFATRFYTDDEGNFDIV
GNNIPVFFIQDAIQFPDLIHAVKPSGDNEIPQAATAHDSAWDFFSQPSSLHTLLWAMAG
HGIPRSFRNVDFGFGVHTFRFVTDGSKSLVKFHWKGLQGKASLWEEAQQISGKNPDFLR
QDLWDAIEAGRFPEWELGVQIMDEEDQLRFGFDLLDPTKIVPEEIPVTKLGKMTLNRNP
RNYFAETE QVMFQPGHIVRGVDFDTPDLLQGRFSLYLDLQNRHGGPNFEQLPINRPTP
IHNNNRDAGAGQMFIPLNKDAYSPNTLNNASPKQANQTTGKGFFTPSRKGNKQLQRTVSS
TFEDVWSQPRLFVNSLVEAEKQFVVDATRFENSNVSDIVRNNVLIQLNRI SNDLAKRVA
EAIGIEAPKPDPSFYHDNTTAHIGAFGQKLLKLEGLKGVGLASVQNASSVSSAASLQSQL
KDAGVDVVVAERLGDGVNQTYSGSDAIQFDVAVVADGAEGFLSSRSFTEKPVKNKASSL
FPAGRPLDILVDAFRFGKPVGAIGKAAALRAAQISSDREGVYAAKSIGNEFVKGLKEGL
RIFKFLDRFALDA

>accession|Q96X30.3|Putative Enolase (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase) (Allergen Asp f 22) [Aspergillus fumigatus]
MPISKIHARSVYDSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAHEL RDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKLDGTANKSNLGNAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVFPQNVLNGGSHAGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYQSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYP IVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAIELKSCNALLLKVNQIGTLTESIQA
AKDSYADNWGMVSHRSGETEDVTIADIAVGLRSGQIKTGAPCRSERLAKLNQILRIEE
LGENAVYAGSKFR TAVNL

>accession|P79017.2|Putative Major allergen Asp f 2 precursor (Asp f II) [Aspergillus fumigatus]
MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVI VNGDKANVL
FRCDNPDGNCALGEGWGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGSGATTTPTDSPSATIDVPSNCH
THEGGQLHCT

>accession|O60024.2|Allergen Allergen Asp f 4 precursor [Aspergillus fumigatus]
MQLKNSMLLLTALAAGSSVARLHGHERHLHHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNAVAAAAAAS TPEPSSSHSDSSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFYKGNVGPWGSNIIIEVSPENAKKYKHAQFVGS DTPWTVVFWNKIG
PDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAWGAAGKDEL PKDQFGGYSCTWGEFD
FDSKINQWGSWDVSAIQEAENAHHEVQGMKICNHAGELCSIIISHGLSKVIDAYTADLAGV

DGIGGKVVPGPTLVLVNLDYKE

>accession|O42799.2|Putative Allergen Asp f 7 precursor
[Aspergillus fumigatus]

MAPIFKSLALVSALFAAIISSAAPVNLDKREVDVVWTTVTTVVWTTIDVTTTTIYPTPQAPT
PPVVESTPTPTPSAAPEQAETSTQPETTKSQPTQPSVATFIPVAAAAAADSAAPIP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSNGSTEKAASSGYSGPCSKGSPCVGQLTYD
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK
PTDLDASRHLFGELADFSAGRIDGMSWYFN

>accession|Q8NKF4.2|Putative 60S ribosomal protein L3 (Allergen
Asp f 23) [Aspergillus fumigatus]

MSHRKYEAPRHGSLAFLPRKRAARHRGKVKSFDPKDDPKKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWKSKKKAFTKYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPKQKKAHLM
EIQVNGGSVADKVDFAFNLFKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTTKLP
RKTHKGLRKVACIGAWHPSHVQWTVARAGQMGYHHRRTSCNHKVFRIGKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKNDYIMVKGSPVGVKKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPPEEKRAFMGTLKKDLVTS

>accession|Q9UUZ6.2|Allergen 60S acidic ribosomal protein P2
(Allergen Asp f 8) (AfP2) [Aspergillus fumigatus]

MKHLAAAYLLLALAGNTSPSSEDEVKAVLSSVGIDADEERLNKLI AELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGAAAPAAEEKKEEKEESEDMDMGFGLFD

>accession|Q92450.3|Allergen Superoxide dismutase [Mn],
mitochondrial precursor (Allergen Asp f 6) [Aspergillus
fumigatus]

MSQQYTLPLPYPYDALQPYISQQIMELHKKHQQTYVNGLNAALEAQKKAEEANDVPKL
VSVQQAIFNGGGHINHSFLWKNLAPEKSGGKIDQAPVLKAAIEQRWGSFDKFKDAFNT
TLGIIQSGWGWLVTGDGPKGLDITTTDQDPVTGAAPVFGVDMWEHAYYLQYLNDKASY
AKGIWNVINWAEAENRYIAGDKGGHPFMKL

>accession|CAJ43561.1|Allergen staphylococcal enterotoxin B
precursor (SEB) [Staphylococcus aureus]

IFVLILVISTPNVLAESQDPKPKDELHKASKFTGLMENMKVLYDDNHVSAINVKSIDQFL
YFDLIYSIKDTKLGNYDNVRVEFKNKDLADKYKDYVDVFGANYYYQCYFSKKTNDINSH
QTDKRKTCMYGGVTEHNGNQLDKYRSITVRVFEDGKNLLSFDVQTNKKKVTAQELDYLTR
HYLVKNKKLYEFNNSPYETGYIKFIENENSWYDMMPAPGDKFDQSKYLMMYNDNKMVDS
KDVKIEVYLTTKK

>accession|ABC02750.1|Putative profilin [Litchi chinensis]

MSWQAYVDDHLMCE TDGQHLTAAAIIGHDGSVWAQSANFPQFKPVEITAIMKDFDEPGSL
APTGLHLGGTKYMVIIQGEPAVIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLVDDQL

>accession|ABC18306.1|Putative 16 kDa allergen [Fagopyrum
esculentum]

MKLFIIILATATLLIAATQATYPRDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDI
LDDKYAEALS RVEGEGCKSEESCMRGCCVAMKEMDDECVCCEWMKMMVENQKGRIGERLIK
EGVRDLKELPSKCGLSELECGSRGNRYFV

>accession|BAE54429.1|Putative tropomyosin [Sepia esculenta]

MDAIIKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYSNLENDFDNA
NEQLTAANTNLEASEKRVAECESEIQGLNRRRIQLLEEDLERSEERLTS AQSKLEDAKAA

DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLLEDELLAEKERYKXSISDELDTFAELAGY

>accession|BAE54430.1|Putative tropomyosin [Sepioteuthis lessoniana]

MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKIEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVACESEIQGLNRRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLLEDELLAEKERYKTISDELDTFAELAGY

>accession|BAE54431.1|Putative tropomyosin [Todarodes pacificus]

MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEAAKNTIEEDLSTLQKKYSNLENDFDNA
KENLTVANTNLEASEKRVNECESEIQGLNRRRIQLLEEDLERSEERLTSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLLEDELLAEKERYKXSISDELDTFAELAGY

>accession|BAE54432.1|Putative tropomyosin [Ommastrephes bartramii]

MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVACESEIQGLNRRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLLEDELLAEKERYKTISDELDTFAELAGY

>accession|BAE54433.1|Putative tropomyosin [Octopus vulgaris]

MDAIKKKMLAMKMERELATDKAEQTDQKLRDTEDNKNKLEEDLTTLQKKFSNLENDFDNA
KEQLAEANQKLETSEKRVGECSEIAGLNRRRIQLLEEDLERSEERLSTAQTKLDEASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLLEDELLAEKERYKAISDELDTFAELAGY

>accession|2AS8_B|Allergen Chain B, Crystal Structure Of Mature And Fully Active Der P 1 Allergen [Dermatophagoides pteronyssinus]

TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRQQSLDLAEQ
ELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYRYVAREQSCRPNQRFQGISNYCQIY
PPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSNA
QGVVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|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]

IGVCYGMLGNLPPPSEVVSLYKSNNIARMRLYDPNQALQALRNSNIQVLLDVPRSDVQ
SLASNPSAAGDWIRRVVAYWPSVSFRYIAVGNELIPGSDLAQYILPAMRNIYNALSSAG
LQNQIKVSTAVDTGVLGTSYPPSAGAFSSAAQAYLSPIVQFLASNGAPLLVNVYPYFSYT
GNPGQISLPYALFTASGVVVQDGRFSYQNLFDIVDAVFAALERVGGANVAVVVSESGWP
SAGGGAEASTSNAQTYNQNLIRHVGGGTPRRPGKEIEAYIFEMFNENQKAGGIEQNFGLF
YPNKQPVYQISF

>accession|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]
MASGSEAEKSPEVVLEWPKKDKKRLRHAVYRVGDLDRITIKCYTECFGMKLLRKRDPVEEK
YTNAFLGFGPEDTNFALELTYNYGVDKYDIGAGFGHFIAIATEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFEIQRGPTPEPLCQVMLRVGDLDRSIKFYEKALGMK
LLRKKDVPDYKYTIAMLGVADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNTKIASFLDPDGWKVVLVDNADFLKELQ

>accession|ABC68516.1|Putative alpha-amylase [Blattella germanica]

MKLFPLVALLVLVVGVLSQKDPHVWDGRSAIVHLFEWKFADIADCEFLGPKGFAGVQV
SPVHENVIISSPFRPWERYQLVSYKLVSRSGDENAFRDMVRRCNVGIIRIYVDVVLNQM
SGSWPDAHQGGSTADTYNLQYPAVPYGPFGDFHSTCTVSNYQDPSNVRNCELVGLHDLNQ
GSDYVRGKMIEYLNHLVDCGVAGFRVDAAKHMWPADLQYIYSKVNLLNTDHFPSGARPF
FYQEVIDLGGEAIHSTEYTGFRVTEFKYSRDIGDAFRGNNAIKWLVNFGVWGWIYIPDGD
ALVFVDNHDNRQGHGAGGASILTYSKLYKMAVAFMLAYPYGYPRVMSSFSFDNSDQGP
PQDGNNGNIISPSINADGTCNGWVCEHRWRQIFNMVGFNRNAVAGTAVSNWWDNGDKQISF
CRGNKGFVAFNDEFNNDLKQTLQTLCPAGDYCDVISGSYENGSCGTGKTVTVGSQDQKAYIE
ILSSADDGVLAIHVNSKVGSKSQTTTTQSSHCTCS

>accession|P46075.3|Putative RecName: Full=Extracellular elastinolytic metalloproteinase; Flags: Precursor [Aspergillus fumigatus]

MRGLLLAGALALPASVFAHPAHQSYGLNRRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPKQSYEVATQHVKMIAPDATFRVVDHVDGNGVAHVHFRQTANGLDIDNADFNVNV
GKDGKVFVSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEK
ESYVFKGVSGTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSN
PSGGSSYLNNYRPSSSSLFKYPYSVSSPSSYIDASIIQLFYTANIYHDLTYLGFTE
KAGNFYNTNGQGGGLNDYVILNAQDGSNTNANFATPPDGQPGRMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALES GGMGEGWSDFMATAIRLKPQDKRST
YTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIQTVWASMLYEVLLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFKRGLGAGAKYSSRNRVVGSTEVPSGVC

>accession|P82947.1|Putative Major Gly 50 kDa allergen [Glycine max]

ANPTFGFTPLGLSSDAN

>accession|ABC73068.1|Allergen venom allergen 5 [Vespula maculifrons]

MEISGLVYLIIIVTIIIDLPYKANNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKVARGLETRGNPGPQPPAKNMKNLVWNEDELAYVAQVWANQCQYG
HDTCRDVAKYQVGQNVALTGSTAAKYENPVNLVKMWENEVVDYDNPKKKFSENNFIKIGHY
TQMWWANTKEIGCGSMKYTENKWHYHYLVCNYGPSGNFNGNEELYQTK

>accession|ABC73706.1|Allergen allergen precursor [Dermatophagoides pteronyssinus]

MKFIITLFAAIVMAAAVSGFIVGDKKEDEWRMAFDRLMMEELETKIDQVEKGLLHLSEQY
KELEKTKSKELKEQILRELTIGENFMKGALKFFEMEAKRTDLNMFERYNYEFALESIKLL
IKKLDELAKKVKAVNPDEYY

>accession|P84527.1|Putative Kiwellin (Allergen Act c ?) [Actinidia deliciosa]

ISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHICRGTTHSHQPGGCKPSGTLTCRGKS

YPTYDCSPVTSSTPAKLTNNDSEGGDDGGPSECDESYHNNNERIVALSTGWYNGGSRG
GKMIRITASNGKSVSAKVVDECDRHRGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNVG
VVDITWSMA

>accession|Q00002.2|Putative Protein disulfide-isomerase (PDI)
(Allergen Alt a 4) [*Alternaria alternata*]
ARDMTKQALPAVSEVTKDTLEEFKTADKVVLVAYFAADDKASNETFTSVANGLRDNFLFG
ATNDAALAKAEGVKQPGLVCTSPSTTARTSSPRPSMRTYPRLRKVASTPLIGEVGPETYA
GYMAAGIPLAYIFAETPEEREEFAKELKPLALKHKGEINFATIDAKSFGQHAGNLNKLVG
TWPAFAIQRTEKNEKFPNQEAKITEKEIGKFVDDFLAGKIDPSIKSEPIEPESNDGPVTV
VVAHNYKDVVIDNDKDLVLEFYAPWCGHCKALAPKYEELGQLYASDELKLVTIKVDAT
LNDVPDEIQGFLPSSLFPLARRMPQSTTLVPHCRGSRPVHRRERLTQASASVGEAVEDAT
ESAKASASSATDSAASAVSEGTEVTKSGASVASDSASSAASEATKSVKSAASEVTNSASS
AASEASASASSVKDEL

>accession|ABC96702.1|Allergen Der s 2 a allergen
[*Dermatophagoides siboney*]
MISKILCLSLLVAAVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHFIKCPVKGQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHAKIRD

>accession|ABD39049.1|Allergen Fra a 1-A allergen [*Fragaria x
ananassa*]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAHPGGTVIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|1Z3Q_A|Allergen Chain A, Resolution Of The Structure
Of The Allergenic And Antifungal Banana Fruit Thaumatin-Like
Protein At 1.7a [*Musa acuminata*]
ATFEIVNRCSYTVWAAVPGGGRQLNQGSWTINVNAGTTGGRIWGRGTGCSFDGSGRGRG
QTGDCGGVLSCTAYGNPPNTLAEFALNQFNLDFFDISLVDGFNVPMDFSPSSGGCRGIR
CAADINGQCPGALKAPGGCNPCTVFKTDQYCCNSGACSPDYSQFFKRNCPPDAYSYPKD
DQTTTFTCPGGTNYRVVFCP

>accession|ABD51779.1|Putative allergen Api m 6 variant 2
precursor [*Apis mellifera*]
MSRLVLASFLLLAVFMSLVGGFGGFGGFGLGGRGKCPNSNEIFSRCDGRCQRFPCNVVVK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCLPG

>accession|ABD79094.1|Putative Zea m 1 allergen [*Zea mays*]
MWSLMQAQVAMVVALSFLVSGAWCGPPKVPKGNITATYKDWLDAKATWYGKPTGAGPD
DNGGGCGYKDVNKPPFNMSMGACGNIPFKDGLGCGSCFEIKCDKPVCECSGKPVVHITDM
NYEPIAAYHFDLAGTAFGAMAKKGEEELRKGAGIIDMQFRRVKCKFGSKVSFHLEKGC
NYLALLVKYVDGDGDIVPVDIKEKGSPTYEPLKHSWGAIWRKDSKPLKGPLTVRLTTEG
GTKTVYDDVIPANWKANTAYTAK

>accession|ABD79095.1|Putative Zea m 1 allergen [*Zea mays*]
ARALVFLVSGAWCGPPKVPKGNITATYKDWLDAKATWYGKPTGAGPDDNNGGGCGYKDV
NKPPFNMSMGACGNIPFKDGLGCGSCFEIKCDKPVCECSGKPVVHITDMNYEPIAAYHFD
LAGTAFGAMAKKGEEELRKGAGIIDMQFRRVKCKYDSKVTFHLEKGCNPYLALLVKYVD
GDGDIIVAVDVKEKGSPTYEPLKHSWGAIWRKDSKPLKGPLTVRLTTEGGTKSVYDDVIP
ANWKANTAYTAK

>accession|ABD79096.1|Putative Zea m 13 allergen [*Zea mays*]

MACIDNAMRALFLLALFCVHGEKAKSKDNDKASGPGGSFDITKLGASGNGKTDSTKAV
QEAWASACGGTQILIPKGDFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGN
WIEILRVDNLVITGKGKLDGQGPVWSKNSCVKKYDCKILPNSLVMDFVNNGEVSGITLL
NSKFFHNMNYKCKDMLIKDVNVTAPGDSPTDGIHMGDSSGVTITNTVIGVGDDCISIGP
GTSKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASV
LTASKIHYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNITGTSSTPEAV
NLLCSAKIPCTGVTMDDVNIKYSGTNNKTMVCKNAKGSAGCLKELACF

>accession|ABD79097.1|Putative Zea m 13 allergen [Zea mays]
ARGALFLLALFCVHGEKAKSKDNDKASGPGGSFDITKLGASGNGKTDSTKAVQEAWAS
ACGGTQKQILIPKGDFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGNWIEILR
VDNLVITGKGKLDGQGPVWSKNSCVKKYDCKILPNSLVMDFVNNGEVSGITLLNSKFFH
NMNYKCKDMLIKDVNVTAPGDSPTDGIHMGDSSGVTITNTVIGVGDDCISIGPGTFKVN
ITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASVLTASKI
HYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNIPGTSSTPEAVNLLCSA
KIPCTGVTMDDVNIKYSGTNNKTMVCKNAKGSAGCLKELACF

>accession|ABD79098.1|Putative Zea m 13 allergen [Zea mays]
ARACTDNAMRALFLLVLCIVHGEKEESKIDAKASGPGGFFDITKLGASGNGKTDSTKA
VQEAWASACGGTQKQILIPKGDFLVGLNFTGPCKGDVTIQVDGNLLATTDLSQYKEHG
NWIEILRVDNLVITGKGNLDGQGPVWSKNFCTKKYDCKILPNSLVMDFVNNGEVSGITL
LNSKFFHNMNYQCKNMLIKDVTVTAPGDSPTDGIHMGDSSGVTITNTVIGVGDDCISIG
PGTSKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKTMFVRIKAYEDAAS
VLTVSKIHYENIKMEDSANPIFIDMKYCPNKLCTANGASKVTVKDVTFKNITGTSSTPEA
ISLLCTAKVPCTGVTMDDVNVVEYSGTNNKTMVCKNAKGSAGCLKELACF

>accession|CAI84850.2|Putative vicilin-like protein, partial
[Lupinus albus]
MGKMRVRFPTLVLVLGIVFLMAVSIIGIAYGEKDVLSHERPEEREQEAWQPRRQRPQSRR
EEREQEQQGSPSYPRRQSGYERRQYHERSEQREEREQEQQGSPSYRQRNPYHFNSQ
RFQTLYKNRNGKIRVLERFDQRTNRLNQLNYRIVEFQSKPNTLILPKHSDADYVLVVLN
GRATITIVNPDRRQAYNLEYGDALRIPAGSTSYILNPDDNQKLRVVKLAIPINNPYFYD
FYPSSTKDQSYFSGFSRNTLEATFNTRYEEIQRILLGNEDEQEYEEQRRGQEQSHQDEG
VIVRVSREQIQELTKYAQSSSGKDKPSQSGPFNLSNEPIYSNKYGNFYEITPDRNPQVQ
DLDISLTFTEINEGALLPHYNSKAIFIVVVGEGNGKYELVGIIRDQQRQDEQEEPEEV
RRYSARLSEGDIFVIPAGYPISVNASSNLRLLGFGINAYENQRNFLAGSEDNVIRQLDRE
VKELTFPGSAEDIERLIKNQQQSYFANALPQQQQQSEKEGRRGRGPISII

>accession|CAJ85641.1|Allergen Major strawberry allergen Fra a 1-
B [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|CAJ85642.1|Allergen Major strawberry allergen Fra a 1-
D [Fragaria x ananassa]
MGGYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGGTIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|CAJ85644.1|Allergen Major strawberry allergen Fra a 1-
C [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAPHGTIIKTTSKY
HTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|CAJ85646.1|Allergen Major strawberry allergen Fra a 1-E [Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAPQAVKCAEILEGDDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLV SAPHGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKAAHLFKLIEGYLKDHPSEYN

>accession|CAI78448.1|Putative cyclophilin [Aspergillus fumigatus]
MVVKTFFDITIDGQPAGRITFKLFDEVVPKTVENFRALCTGEKGFYKGSFHRIPQFM
LQGGDFTKNGTGGKSIYGRFPDENFQLKHDKPGLLSMANAGKNTNGSQFFITTVVTSW
LDGAHVVFGEVEDGMDLVKKIESYGSASGTPKKKITIADCGQL

>accession|CAI78449.1|Putative thioredoxin [Aspergillus fumigatus]
MSHGKVIADVNP I IYKALTSSGPVVVDFATWCGPCRAVAPKVGELSEKYSNVRFIQVDV
DKVRSVAHEMNIRAMP TFVLYKDGQPLEKRVVGGNVRELEEMIKSISA

>accession|CAI78450.1|Putative thioredoxin [Aspergillus fumigatus]
MSHNVEKITDAKVFKEKVVQEGSGPVIVDCSATWCGPCKAISPVFQRLSTSEEFKNAKFYE
IDVDELSEVAAELGVRAMP TFMFFKDGQKVNEVVGANPPALEAAIKAHVA

>accession|NP_001035360.1|Putative allergen Api m 6 variant 1 [Apis mellifera]
MSRLVLASFLLLAIFSMVLVGGFGGFGGGLGGRGKCP SNEIFSRCDGRCQRFPCPNVVPK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCG

>accession|ABF18122.1|Allergen 30 kDa salivary gland allergen variant 2 [Aedes aegypti]
MKPLVKLFLFLCLVGI VLSRPMPEDEEPVAEGDDDDASGESEGE EETDDAGGDGEEEN
EGEEHAGDKDAGGEDTGKEENTGHDDAGEEDAGEEDAGEEDAGEEDAEKEEKEKE
DAGDDAGSDDGEEDSTGGDEGEDNAEDSKGSEKNDPADTYRQVVALLDKD TKVDHIQSEY
LRSALNNDLQSEVRVPVVEAIGRIGDYSKIQGC FKS MGKDVKKVISEEKKFKSCMSKKK
SEYQCEDSFAAAKSKLSPITSKIKSCVSSKGR

>accession|ABF21077.1|Putative icarapin variant 1 precursor [Apis mellifera]
MKTLGVLFIAAWFIAC THSFPGAHD EDSKEERKNVDTVLVLP SIERDQMM AATFDFP SLS
FEDSDEGSNWNWNTLLRPNFLDGWYQTLQSAISAHM KKVREQMAGILSRIPEQGVNWNK
IPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQNETILT TVSSEAD
SDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDV LTA

>accession|ABF21078.1|Putative icarapin variant 2 precursor [Apis mellifera]
ERDQMM AATFDFP SLSFEDSDEGSNWNWNTLLRPNFLDGWYQTLQTHM KKVREQMAGILS
RIPEQGVNWNKIPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQ N
ETILT TVSSEADSDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDV LTA

>accession|P0C1B3.1|Allergen Alpha-amylase A type-1/2 precursor (Taka-amylase A) (TAA) (1,4-alpha-D-glucan glucanohydrolase) [Aspergillus oryzae]
MMVAWWSLFLYGLQVAAPAL AATPADWRSQSIYFLLTDRFARTDGS TTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQT TAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCFIQNYEDQT

QVEDCWLGDNTVSLPDLDTTKDVVKNEWYDVGSLVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYP IYYPLLNAFKSTSGSMDDLNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAF IILNDGIPI IYAGQEQHYAGGN
DPANREATWLSGYPTDSELYKLIASANAIRNYAISKDTGFVITYKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTL SLSGAGYTAGQQLTEVIGCTTVTVGSDGNVPPMAGGL
PRVLYPTEKLAGSKICSSS

>accession|CAI94601.1|Allergen par j1.0103 protein, partial
[Parietaria judaica]
QETCGTMVRALMPCLPFVQGEKEEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTY
SDIDGKLVSEVPKHCGIVDSKLPIDVNMDCCKTLGVVPRQPQLPVSLRHGPVTGSPDPAH
KARLERPQIRVPPPPEKA

>accession|CAK22338.1|Allergen Der p 2 allergen precursor
[Dermatophagoides pteronyssinus]
MMYKILCLSLLVAAVAADQVDVKDCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEALFEA
NQNTKNAKIEIKASIDGLEVDVPGIDPNACHYVKCPLVKGQQYDIKYTWNVPKIAPKSEN
VVVTVKVLGDNGVLACAIATHAKIRD

>accession|ABF81661.1|Putative EXPB10 [Zea mays]
CKYGSKVTFHLEKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKD
SDKPIKGPITVRLTTEGGTKTVYDDVIPA EWKPNTAYTT

>accession|ABF81662.1|Putative EXPB10 [Zea mays]
MTVVSIMWSLVQVQVLVAVALSFLVGGAWCGPPKVPKGNITANYGSDWLDKATWYGKP
TGAGPDDNGGGCGYKDVNKAPFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECGKPVV
VYITDMNYEPIAAYHFDLAGTAFGAMAKGEEELRKAGIIDMQFRRVKCYGSKVTFHL
EKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKDSKPIKGPITV
RLTTEGGTKTVYDDV IPTDWPNTAYTTK

>accession|ABG02262.1|Putative 8S globulin beta isoform precursor
[Vigna radiata]
MVRARVQLLLGILFLASLSVSFGIVHREHQESQEESSDRGQNNPFYFNSDRRFHTLTKNQ
YGHRLVIHRFDQRSKQIQNLENYRVVEFKSKPNTLLLPHHADADFLVVLNGRAILTLVN
PDGRDSYILEQGHQAQKIPAGTTFFLVNPNNDNLRRIKLAIPVNNPHRFQNFLLSSTEAQ
QSYLRGFSKNILEASFDSDFKEIDRVLFGEERQQQHGEESQEEGVIVELKREQIRELIKH
AKSSSRKELSSQDEPFNLRNSNPIYSNKFGRWYEITPEKNPQLKDLDFISSVDMKEGGL
LLPHYNSKAIVILVINEGEAKIELVGP SDQQQDESLEVQRYRAELSEDDVFVIPAAYPV
AINATSNLNFFAFGINAENNQRNFLAGEKDNVMSEIPTEVLDVSPASGNKVEKLIKKQS
ESHFVDAQPEQQQREEGHKGRKGSLSILGSLY

>accession|2ATM_A|Allergen Chain A, Crystal Structure Of The
Recombinant Allergen Ves V 2 [Vespula vulgaris]
SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFNKRNKSKDDFQGDKIAIFYDPGEFPALL
SLKDYGKYKRRNGGVPQEGNITIH LQKFIENLDKIYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKXIELEASKRFEKYARFFMEETLKLAKKTRKQADWGY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNQNQVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVL SYWVYVYQDETNTFLTETDVKKTFQEIVINGGDGIIWGSS
DVNSLSKCKRLQDYLLTVLGPIAINVTEAVN

>accession|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)]
MASSSLLLACVVVAAMVSAVSCGPPKVPKGNITTSYGDKWLEAKATWYGAPKGAGPKDN

GGACGYKDVDKAPFLGMNSCGNDPIFKDGGKCGSCFEIKCSKPEACSDKPALIHVTDMND
EPIAAHFYFDLSGLAFGAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNP
NYLALLVKYVAGDGDVVEVEIKEKGSEEWKALKESWGAIWRIDTPKPLKGPFSVRVTTEG
GEKIIAEDAIPDGWKADSVYKSNVQAK

>accession|ABG54494.1|Putative putative allergen Rub i 3 [Rubus
idaeus]
MACSAVMKLALVALLCIVVAVPVAQAITCGQVTQNVAPCFNYVKNGGAVPAACCNGVRNL
NSQAKTTADRQQTNCNCKNAAGSIPGLNPSLAAGLPKCGVSVVPYKISTSTNCATVK

>accession|ABG54495.1|Putative putative allergen Rub i 1 [Rubus
idaeus]
YTSVIPPPKLFKAFVLDADNLI PKIAPQAVKSVEIIEGDGGVGTVKKIHLGEGTEHSYVK
HKIDGLDKVNFVYSYSITEGDALGDKIEKISYEIKLVASGRGSIKTTSHYHCKGGAEIK
EEQVKD GKERAAGL FKI

>accession|CAL07989.1|Allergen lipid transfer protein [Platanus
x acerifolia]
MAFSRVAKLACLLACMVATAPHAEEAITCGTVVTRLTPCLTFLRSGGAVAPACCNGVKA
LNNDAKTTPDRQAACGCLKTASTSISGIQLGNAASLAGKCGVNL PYKISPTIDCSKVK

>accession|CAK50389.1|Allergen ani s 4 allergen [Anisakis
simplex]
MQSRIVVAVVVFCCIILMQTEAGMLGGSSDQVDVNDPEIKELAGKSI AKISAMINDGKPHE
LVKVVSAKKQVVAGDKYTLEILVKDGDHQLDCTVTIWQKKWENFEVVKVLKCDHQ

>accession|ABG73108.1|Putative Pis v 1 allergen 2S albumin
[Pistacia vera]
MAKLVLLLSAF AFLILANASIYRATVEVEGENLSSGQSCQKQFEEQQKFKHCQMYVQQE
VQKSQDGHSLTARINQRQQCFKQCCQELQEVDKKCRCQNLEQMVKRQQQQQFRGEKLQE
LYETASELPRMCNISPSQGCQFSSPYWSY

>accession|ABG73109.1|Putative Pis v 2.0101 allergen 11S globulin
precursor [Pistacia vera]
MGYSSLLSFSLSGFLLLFHCSFAQIEQVVNSQQRQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFDQNEEQQLQCANVAVFRHTIQSRGLLVPSYD NAPELVYVVQSGSIHGAVFPGCP
ETFQEESSQSRRSERSQQSGEQHQKVRPIQEGDVIALPAGVAHWIYNNGQSKLVVALAD
VGNSENQLDQYLRKFVVLGGSPQQEIQGSGQSRRSQSQSSRRGQQGQQSNNILSAFDEEI
LAQSFNIDTQLARRLQKEKRQRGIIVRVQEDLEVLSPHRQEQEQEYEEERERRQRNGLEE
TFCTMTLKYNINDPSRADVYNPRGGRVSSVNALNLPILRFLQLSAKKGVLHRDAI LAPHW
NVNAHSIVYITRGNRIQIVSENGESVFDEEIREGQLVVVPQNF AVVKRASSDKFEWVSF
KTNGLSQTSQLAGRVSVFRALPLDVIKNSFDISREDARRLKESRSETTIFAPGSSSRKS
QSERERQREEREIEH

>accession|ABG73110.1|Putative Pis v 2.0201 allergen 11S globulin
precursor [Pistacia vera]
MGYSSLLSFSLSGFLLLFHCSFAQIEQVVNSQQRQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFDQNEEQQLQCANVAVFRHTIQSRGLLVPSYNNAPELVYVVQSGSIHGAVFPGCP
ETFQEESSQSRRSQHRSERSQQSGEQHQKVRHIREGDI IALPAGVAHWIYNNGQSKLVL
VALADVGNSENQLDQYLRKFVVLGGSPQQEIQGGGQSWQSRSRSGQSSNNILSAFDEEI
LAQSFNIDTQLVKKLQREEKQRGIIVRVKEDLQVLSQRQEKEYSDNGLEETFTCTMTLKL
NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNRMQIVSENGESVFDEEIREGQLVVVPQNF AVVKRASSDGF EWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSRQRQNRN

>accession|ABG76196.1|Allergen group 2 allergen Der p 2 [Dermatophagoides pteronyssinus]
RDQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEANQNSKTAKIEIKASID
GLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVTVKVMGDNGVLAC
AIATHAKIRD

>accession|ABG81289.1|Putative pollen profilin variant 2 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>accession|ABG81290.1|Putative pollen profilin variant 3 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81291.1|Putative pollen profilin variant 4 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81292.1|Putative pollen profilin variant 5 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81293.1|Putative pollen profilin variant 6 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81294.1|Putative pollen profilin variant 7 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEPEGAVTRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>accession|ABG81295.1|Putative pollen profilin variant 8 [Phleum pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCSMVVE
RLGDYLVKQGL

>accession|ABG81312.1|Putative pollen profilin variant 1 [Zea mays]
MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNIKDFDEPGFL
APIGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>accession|ABG81313.1|Putative pollen profilin variant 2 [Zea

mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKKTGQAMVVGIIYDEPMPGQCNMVVE
RLGDYLLEQGL

>accession|ABG81314.1|Putative pollen profilin variant 3 [Zea
mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAAWAQSTAFPEFKTEDMANIMKDFDEPGHL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKKTGQALVVGIIYDEPMPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81315.1|Putative pollen profilin variant 4 [Zea
mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKKTGQALVIGIYDEPMPGQCNMVVE
RLGDYLLEQGM

>accession|ABG81316.1|Putative pollen profilin variant 5 [Zea
mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKKTGQALVIGIYDEPMPGQCNMVVE
RLGDYLLEQGL

>accession|ABG81317.1|Putative pollen profilin variant 6 [Zea
mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQSKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKKTGQAMVVGIIYDEPMPGQCNMVVE
RLGDYLLEQGL

>accession|ABG81318.1|Putative pollen profilin variant 7 [Zea
mays]
MSWQAYVDEHLMCEIEGHHLTSAAIVGHDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGITVKKKTGQAMVVGIIYDEPMPGQCNMVVE
RLGDYLLNRA

>accession|ABG85155.1|Allergen pathogenesis-related protein 10
[Arachis hypogaea]
MGVFTFEDEITSTLPPAKLYNAMKDADSLTPKIIDDVKSVEIVEGSGGPGTIKKLTIVED
GETRFILHKVEAIDEANYAYNYSVVGVALPPTAEKITFETKLVEGHNGGSTGKLSVKFH
SKGDAKPEEEDMKKGKAKGEALFKAIEGYVLANPTQY

>accession|ABH06346.1|Allergen Blo t 21 allergen [Blomia
tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARPLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLLKDLKA
LQKRVQDSE

>accession|ABH06348.1|Allergen Blo t 21 allergen [Blomia
tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIINTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLLKDLKA
LQKRVQDSE

>accession|ABH06350.1|Allergen Blo t 21 allergen [Blomia
tropicalis]

MKFI IALAALI AVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFL LHITHEVDDLEET
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDL LLLKDLKA
LQKRVQDSE

>accession|ABH06352.1|Allergen Blo t 5 allergen [Blomia
tropicalis]
MKFAIVLIACFAASVLAQGHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQ LDEL
NENKSKELQEKI IRELDVVCAMIEGAQ GALERELKRTDLNILERFNYEEAQTLSKILLKD
LKETE QVKDIQTQ

>accession|ABH06359.1|Allergen Blo t 5 allergen [Blomia
tropicalis]
MKFAIVLIACFAASVLAQEHKPEKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQ LDEL
NENKSKELQEKI IRELDVVCAMIEGAQ GALERELKRTDLNILERFNYEEAQTLSKILLKD
LKETE QVKDIQTQ

>accession|ABH06347.1|Allergen Blo t 21 allergen [Blomia
tropicalis]
MKFI IALAALI AVACALPVSNDNFRHEFDHMIVNAATQRFHEIEKFL LHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDL LLLKDLKA
LQKRVQDSE

>accession|ABI17154.1|Allergen iso-Ara h3 [Arachis hypogaea]
MAKLLALS LCFV LVLGASSVTFRQGGEENECQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRNALRRPFYSNAPLEIYVQQGSGYFGLIFPGCPSTYEEPAQEGR
RYQSQKPSRRFQVQDDPSQQQDSDHQVHRFDEGDLIAVPTGVAFWVYNDDEDTDVVTVT
LSDTSSIHNLQDQFPRRFYLAGNQEQEFLRYQQQGSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEFLQHAFAVDRQTVENLRGENERE EQGAI VTVKGLRILSPDEEDES SRSPSR
REEFD EDRSRPQQRGKYDENRRGYKNGI EETICSASVKNLGRSSNPDIYNPQAGLSRV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVVD SNGNRVYDE
ELQEGHVLVVPQNFVA AKAQSENYEYLAFKTD SRPSIANLAGENSI IDNLP EEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>accession|ABI26088.1|Putative TCTP [Alternaria alternata]
MLIYKDILTGDEIISDSYNLKEIDGVVYEADCTKITVGGESFDTGANASAE EQEEGAEDS
AETKIDVVYSFRLNETGFDKKG YLTYLKG YMKAVKDGLKKGGADEATIKDFETKASGYAK
KIISNFKDYEFFTGESMNP DGMIVLLNYREDGVTPYVTVWKHGLEEMKV

>accession|ABI32184.1|Putative allergenic protein [Fagopyrum
tataricum]
MSTKLILS FSLCLMVLSCSAQAAQLWPWRKGQDSRPHHGHQ QFQQQCDIQRLTASEPSRR
VRSEAGVTEIWDHNTPEFRCTGFVAVRYVIQPGLLLP SYSNAPYITFVEQGRGVQGVVI
PGCPETFQSDSEYPQSQRGQHSRESSESQESSRGDQH QKIFRVREGDVIPSPAGVVQWTHN
DGDQDLISVTL LDANSFHNQLDENVRSFFLAGQSQQGREERSQQQTREEGGDRQSRES D
DVEALIGANILSGFQDEILHELFRD VDRETISKLRGENDQRGFIVQAQDLKLRVPEDSEE
GYERQQRGDRKRDERGSGRSNGLEQAF CNLKFQRQNVNRP SHADVFNPRAGRINTVNSNNLP
ILEFLQLSAQHVVLYKNAIIGPRWNLNAHSALYVTRGEGRVQVVGDEGKSVFDDNVQRGQ
ILVVPQGF AVVVKAGRQGLEWVELKNNDNAITSPIAGRTSVLRAIPVEVLANSYDISTEE
AYKLNKGRQEVEVFRPFQSRYEKEEEKERERFSIV

>accession|AAU21499.2|Putative oleosin 1 [Arachis hypogaea]
MTDR TQPH TVQVHTTAGRF GDTAAGTNRYPDRGPSTSKVIAVITGLPIGGTLLL FAGLAL
AGTLLGLAVTTPLF ILFSPVIVPAIIVVGLSVAGFLTSGACGLTGLSSFSWVMNYIRQTH
GSVPEQLEM AKHRMADVAGYVVGQKTKDVGQKTKEVGQEIQTKAQDSKRT

>accession|Q01883.2|Putative Seed allergenic protein RAG1 precursor (Seed allergenic protein RA17) [Oryza sativa (japonica cultivar-group)]

MASNKVVFVSVLLLVLSVLAAMATMADHHQVYSPGEQCRPGISYPTYSLPQCRTLVRRO
CVGRGAASAADQVWQDCCRQLAAVDDGWCRCGALDHMLSGIYRELGATEAGHPMAEVFP
GCRRGDLERAAASLPAFCNVDIPNGPGGVCYWLGYPRTPRTGH

>accession|Q01882.2|Putative Seed allergenic protein RAG2 precursor (Seed allergenic protein RA14) [Oryza sativa (japonica cultivar-group)]

MASNKVVFVSVLLLIIVSVLAATATMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVGHGAPGGAVDEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMAE
VFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|NP_001041618.1|Allergen major allergen I, polypeptide chain 1 [Felis catus]

MLDAALPPCPTVAATADCEICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENARILK
NCVDAKMTEEDKENALSLLDKIYTSPLC

>accession|2HCZ_X|Putative Chain X, Crystal Structure Of Expb1 (Zea M 1), A Beta-Expansin And Group-1 Pollen Allergen From Maize [Zea mays]

GPPKVPPGXNITTYNGKWLRTARATWYGQPNGAGAPDNGGACGIKVNLPYSGMTACGN
VPIFKDGGKCGSCYEVRCCKEPECSGNPVTVYITDMNYEPIAPYHFDLSGKAFGLAKPG
LNDKIRHCGIMDVEFRVRCKYPAGQKIVFHIEKGCNPNYLAVLVKYVADDGDIVLMEIQ
DKLSAEWKPMKLSWGAIWRMDTAKALKGPFISIRLTSESCKKVIKDVIPANWRPDAVYTS
NVQFY

>accession|BAF32105.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNSRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVNNLFFNGPCQPHTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGF'TLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32110.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNSRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPQFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGF'TLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32116.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNSRSLRKVEHSRHDAINIFN

VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKG IASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32119.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDS DIEQYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDINLSDISLKLTSKG IASCLNDNANGYFS
GNVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32122.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKG IASCLNDNANGYFS
GNVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32128.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGTENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKG IASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32130.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKG IASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC

SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>accession|BAF32133.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRRESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>accession|BAF32134.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGI IAAAYQNPASWKNNRIWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLRIKTWQGGSGMASHI IYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLS PNAKRRESKSHKHPKTVMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32143.1|Putative pollen allergen [Chamaecyparis obtusa]

LDSDIEQYLRNRSRLKLVHSRHDAAATVFNVEQYGA VGDGKHDSTEFETA WNAACKKAS
AVLVVPANKKFFVNNLVFRGPCQPHLSFKVDGTIVAQPDPARWKNSKIWLQFAQLTDFNL
MGTGVIDGQGGQWWAGQCKV VNGRTVCNDRNRPTAIKIDYSKSVTVKELTLMNSPEFHLV
FGECEGVKIQGLKIKAPRDSNPNTDGIDIFASKRFHIEKCVIGTGDDCIAIGTGSSNITIK
DLICGPGHGIGISIGSLGRDNSRAEVSHVHVNRKAFIDTQNGLRIKTWQGGSGLAS YITYEN
VEMINSENPI LINQFYCTSASACQNQRSAVQIQGVTYKNIHGTSATAAAIQLMCSDSVPC
TGIQLSNVSLKLTSGKPASCVDKNARGFYSGRLIPTCKNLRPGSPKFEFELQQQP TTM

>accession|ABI98020.1|Putative arginine kinase [Litopenaeus vannamei]

MADAAVIEKLEAGFKKLEAATDCKSLLK KYLTKEVFDKLDKRTSLGATLLDVIQSGVEN
LD SGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVNSFVNVDPEGK FV
ISTRVRCGRSLQGYPFNPCLTESQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTF LVVWNEEDHLRIISMQMGDLG
QVFRRLTS AVNEIEKRIPF SHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGILELIKIEKEM

>accession|Q1ZYQ8.2|Putative Expansin-B10 precursor (ZmEXPB10) (Beta-expansin-10) (Pollen allergen Zea m 1c) [Zea mays]

MAVNVRTMWSMRAQVAMVVALVFLVRGAWCGPPKVP PGKNITATYKDWLDAKATWY GK
PTGAGPDDNGGGCGYKDVNKPPFN SMGACGNIPIFKDGLGCGSCFEIKCDKPV ECGKPV
VVHITDMNYEPIAA YHFDLAGTAFGAMAKKGEFEKLRKAGIIDMQFRRVKCKYDSKVTFH
LEKGC GPNYLALLVKYVDGDGDIVAVDVKEKGS DTYEPLKHSWGAIWRKDSDKPLKGLPT
VRLTTEGGTKSVYDDVIPANWKANTAYTAK

>accession|P0C1Y5.1|Putative Expansin-B11 precursor (ZmEXPB11) (Beta-expansin-11) (Pollen allergen Zea m 1a) (Pollen allergen

Zea m 1b) [Zea mays]

MTVVSIMWVSLVQVQVLVAVALAFLVGGAWCGPPKVPVPGKNITAKYGSWDLDAKATWYGKP
TGAGPDDNGGGCGYKDVNKAPFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECGKPVV
VYITDMNYEPIAAYHFDLAGTAFGAMAKKGGEEKLRKAGIIDMQFRRVKCKYGSKVTFHL
EKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWKDSKPIKGPITV
QLTTEGGTKTVYDDVIPAGWKPNTAYTAK

>accession|CAL59818.1|Allergen hyaluronidase [Vespula germanica]
SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFNINRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYKKRNGGVPQEGNITIHLEQKFIENLDKTYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGY
GYPYCFNMSNNLVPECDVTAMHENDKMSWLFNQNQVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLVSYWVYVYQDETNTYLTETDVKKTFQEIIVINGGDGIIIWGSS
DVNSLSKCKRLQDYLLTVLGPVAVNVTEAVN

>accession|CAL59819.1|Allergen hyaluronidase homologue [Vespula
germanica]
VITIWPKKGFISIYWNIPTHFCHNFGVYFKELKQFNINRNSMNNFRGETISLFYDPGNFPS
MVLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETSAKIFMEKTLKLAKKIRKKTWEG
YHGYPHCLSGSTDKPSFDCDALSMSSENDKMSWLFNQNQVLLPSIYLNKLVLPDEKIHVQ
ERLKEAIRISKNLKHLPKVLPYWWYTYQDKESIFLTEADVKNFTFKEILTNGADGIIIWGV
SYELTDRKRCEKLKEYLMKILGP

>accession|ABK78766.1|Allergen major allergen Cup a 1 [Cupressus
arizonica]
SDNPIDSCWRGDSNWDQNRMKLADCVVGFSGSSTMGGKGGEIYTVTSSDNPNVPTPGTLR
YGATREKALWIIFSQNMNIKLQMPLYVNGYKTIDGRGADVHLGNGGCPCLFMRKASHVILH
GLHIHGCVTSVLGDVLVSESIGVEPVHAQDGDAITMRNVNNAWIDHNSLSDCSDGLIDVT
LGSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVH
VANNNYDQWNIYAIGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRST
RDAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQNAAGVVA

>accession|P00791.3|Putative RecName: Full=Pepsin A; Flags:
Precursor [Sus scrofa]
MKWLLLLSLVVLSECLVKVPLVRKKSRLRQNLIKNGKLDKDFLTKHKNPASKYFPEAAALI
GDEPLENYLDTEYFGTIGIGTPAQDFTVIFDGTGSSNLWVPSVYCSSLACSDHNQFNPDDS
STFEATSQELSITYGTGSMGTGILGYDVTQVGGISDTNQIFGLSETEPGSFLYAPFDGIL
GLAYPSISASGATPVFDNLWDQGLVSDLFVYLSNDDSGSVVLLGGIDSSYYTGSLNW
VPVSVGEYQWITLDSITMDGETIACSGGCQAIVDGTSLLTGPTSAIANIQSDIGASENS
DGEMVISCSSIDSLPDI VFTINGVQYPLSPSAYILQDDSDCTSGFEGMDVPTSSGELWIL
GDVFIHQYTVFDRANNKVGLAPVA

>accession|P0C0Y4.2|Allergen Probable NADP-dependent mannitol
dehydrogenase (MtDH) (Mannitol 2-dehydrogenase [NADP+]) (Allergen
Alt a 8) [Alternaria alternata]
MPISVPQATELKDLSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKCQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFREKRTGSLVITSSMSGHIANFPQEASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMPMGRDAKATELKA
YVYFASDASSYCTGSDLLIDGGYCVR

>accession|ABL09307.1|Putative allergen Aca s 13 [Acarus siro]
MVQINGSYKLEKSDNFDAFLKELGLNFVTRNLAKSATPTVEVSVNGDSYTIKTASTLKNT
EISFKLGEEFEARADGKTVKTVVNKESDTKVFVQVQGDKEVTIVREFSDEGLTVTATVN

GVTSVRFYKRQ

>accession|ABL09312.1|Putative allergen Aca s 4 [Acarus siro]
MAHLLLVAVVAITLALSQSVFVGGSPYSNPHTGSRSVITHLMQWKFDIAAECERFLGPKG
YGGIQLSPVNEHAVLGNRPWYELYQPVGKYIQSRSGNEEQFKGMVQRCKNVGVRIYVDIV
MNHMSGAQEGHGNCWFKLQWHHDVSRCSLLVPNDFHGRESCHTDNMDIKNYDNPEEARNC
RLSGLRDLKQSSEYVRQKQADFLNHLIDLGVAGSRSDASKHMWPGDLEAIYGKLNHLNTA
YFPANSRPFYIHEVIYYGGDIKSSDYTKLGRAIEFHFYRDIANVRRHNQLKTVKNFVGQ
PWGMVPSDDALVMVDSHDLQRFTGQVGVNINIFYESRLLKVATAFMLAWPYGVPRVMSSY
HWDQKIEDGDKDNDWIGPPSDGSGNILSVTPQPDTCNKEWICEHRWRQIYNMVHFRNVA
GNEAVSHWWDNGDYQIAFGRGSKAFIAINLQDQGLNRKLATGLPQGTYCDLVTGNLAGG
KCTGGTVTVDGSGNADINIAKTAEDPFVAIHVEAKLH

>accession|ABL77410.1|Putative UA3-recognized allergen [Anisakis
simplex]
AKYGSQFCKNLLANCLSSGTATLPMQSPWQIPPVVSSCITSGMAKGTDHNKKDVMATCIQ
RYGADFCKNMVGSAAALTDVTLTSYGIGSVLPQVIVDCMTSEMSSPSIMWQCQVQKYGTEF
CKKLLQDCSASTGASLSPQAPWLIPSVIAECMAKGMVNGGRQADDTMAICIQKYGIKFCN
IIGAACSVLTQVPPFPQLPGTVQQLPSELRACVRSETQKPNVMTKCVKEYGTEFCSSLLQ
SCSASTGAILPLREPWKIPHPADIADCMYAGMNPESKEDRGGIMSKCIRRYGDFDCKMLES
CSALTSVQHDSRNTNYASLPQVLKDCMASEMDSPSVMFECVQRYGTFPCKGLLETCTEKT
RASLSPQAPWLIPTAIAQCMRQGMNQDEKKTLMSLCVRRYGADYCNLAAACSVLTNLP
FFPQTPPSEQNLPPMMHKCLKSEMENPGIMSTCVQRYGTQFCKNLLNSCTASTGMHLPYD
APWKIPEPIAACMAQGMNGGDHKKPKEDAMARCIKRYGVTYCNMMLASC SVLTNVNYDPSG
GQMPGILSECVTAETDEPSAMCQCVQKYGTEFCCKRLASCIASCTGMNLPATTPWKLPPV
ARCMQHGSNDNRGQGGQGSNDVMSQCIARYGAEFQRLARFCYAMNSLQYPGETFDPQQQ
TPTQVARCMKSEMDSPSVMWHCVQKYGQEFCKNLAATCSTETNTPLPQQDPWRLPQPIIA
CMLGKMNNPNPTSKPQSVMSQCTARYGDDFCLSLGKACAELNNVPSSMISLSAQQLPQPV
SSCMKAEMNNPSALWQCIIQYQYIEFCCKLRDACSAMTGASLSTTPWILPQVSNMCRNE
MNNPSAMWLCIQKYGIEFCNRLASACAMIKKVTMPTVTINLPEIIASCVASENSQAMCYA
RKGPEQCKTEENICRPNPNNPPGSPLTIPETECMKSQVAMATCQKKFGSECVALQQEVCVAG
TGAPPVTIGARGAFMLATALRSCIFNGGVIGSCVLYHPPSQCDQWVQQCATALQTSAGVT
VAGGYRQLSPPMAVCVASQDLMTRCMTLRLGQGTCCQAVKNCKRRFNTSPSSRLPGRLWSLS
SELINCLYRPVNRASN

>accession|ABL84749.1|Allergen Der f 1 allergen
[Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRLRT
ATPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVQVYWIWRNSWDTTWGD
SGYGFQAGNNLMMIEQYPYVIM

>accession|ABL84750.1|Allergen Der f 1 allergen
[Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQKLVDCCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVQVYWIWRNSWDTTWGD
SGYGFQAGNNLMMIEQYPYVIM

>accession|ABL84751.1|Allergen Der f 1 allergen
[Dermatophagoides farinae]

MKFVLAIASLLVSLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRITIRHDNGYQPNYHAVNIVGYGSTQGVYWIWRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVIM

>accession|ABL89183.1|Putative allergen tropomyosin [Portunus sanguinolentus]

MDAIIKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|ABM53030.1|Putative profilin [Caryota mitis]

MSWQAYVDHHLCEIDGQRLAAAAILGHDSVWAQSETFPQVKPEEISGIMNDFAEPGNL
APTGLYLGNTKYMVIQGEPEGAVIRGKKGSGGVTIKKTNMALIIIGIYDEPMTPGQCNIIE
RLGDYLIDQGF

>accession|ABM53751.1|Putative mite allergen Tyr p 13 [Tyrophagus putrescentiae]

MTIEGKYKLEKSENFDAFLDKLGVGFVMVKTAAKTLKPTLEVEVAGDITYTLRSLSTFKNTE
IKFKLGEEFEEDRADGKKVKTVVNKEGDNKLVQTQFGDKEVKIIREFNGDDVVVTASVDG
VTSVRSYKRI

>accession|BAF43534.1|Putative SXP/RAL-2 family protein [Anisakis simplex]

MKTLIIVAALFCTIGMALADDTPPPPFLAGAPQDVVKAFFELLKKDETKTDPEIEKDLDA
WVDTLGGDYKAKFETFKKEMKAKEAELAKAHEEAVAKMTPEAKKADAELSKIAEDDSLNG
IQKAQKIQAIIYKTLQPQSVKDELEKIGGPAVPQ

>accession|ABM60783.1|Putative pectate lyase [Penicillium citrinum]

VGDVATGYASENGGTTGGSGGTTTTVSSYAAFTEAVSGDDAKVVFVSGKISKADQARVG
SNTSIIGKDSNAILSGFVGVKEASNVIIIRNLGVEKVLADNGDAIGIQKSNNVVDHCDV
SSDRDHDKDYDGLIDITHAADYVTVSNTSIHDHWKACLIGHSDSNGDEDKGHLHVTLLN
NYWYNINSRGPFRFGTGHVYNSYLDMSDGINTRQGAQHLVESNTFSGSKKPLYSTDDG
YAVANDNDFDGENNAEKGTLSVPYSYDLVSGKVKDAVVGTAGQTLTF

>accession|P80740.2|Putative Superoxide dismutase [Cu-Zn] (Allergen Ole e 5) (Ole e V) [Olea europaea]

MVKAIVTLNSSEPHGIVYFAQEGDGPTTV

>accession|P82977.2|Putative RecName: Full=Subtilisin-chymotrypsin inhibitor WSCI; Flags: Precursor [Triticum aestivum]

MSSVVKPLGGNTDTGDHNNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKDIAQVPRVG

>accession|Q45W86|Putative Oleosin 2 [Arachis hypogaea]

MAEALYYGGRQRQDQPRSTQLVKATTAVVAGGSLILAGLVLAATVIGLTTITPLFVIFS
PVLVPAVITVALLGLGFLASGGFGVAAITVLTWIIYRYVTGKHPPGANQLDTARHKLMSKA
REIKDYGQQQTSGAQAS

>accession|BAF45320.1|Allergen allergen Cry j 2 [Cryptomeria

japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNSRSLRRVEHSRHDAINIFN
VEKYG

>accession|ABN03965.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVVGYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYADNPRDISLPYALFTSPSVV
WDGQRGYKNLFDATLDALYSALERASGGVSEVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGTPKRPNRAIETYLFAFMDENKKQPEVEKHFGLFFPDKRPKYNLNFSAEKNWDIS
TEHDATILFLKSDM

>accession|ABN03966.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVVGYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVRNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVV
WDGQRGYKNLFDATLDALYSALERASGGVSEVSESGWPSAGAFATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAFMDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ABN09653.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASIGITDAQVGVVGYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLNIYPYFTYAYNPRDISLPYALFTSPSVV
WDGQRGYKNLFDATLDALYSALERASGGVSEVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGTPKRPNRAIETYLFAFMDENKKQPEVEKHFGLFFPDKRPKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ABN09654.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVVGYGMQGNLPSVSEVIALYK
KSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSSXSPLLANIYPYFTYAYNPRDISLPYALFTSPSVV
WDGQRGYKNLFDATLDALYSALERASGGVSEVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGTPKRPNRAIETYLFAFMDENKKQPEVEKHFGLFFPDKRPKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ABN09655.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVVGYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVV
WDGQRGYKNLFDATLDALYSALERASGGVSEVSESGWPSAGAFATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAFMDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ABN14313.1|Allergen Der f 2 allergen

[Dermatophagoides farinae]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHGKIRD

>accession|BAF46896.1|Putative tropomyosin [Balanus rostratus]
MDAIKKKMQAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLQKKYTNLENEFDQV
NEQYNEGVTKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTPVKLDEATFKLEDATKTA
DESERGRKVLERSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLAEKEKYKAISDELDTFAELAGM

>accession|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
GGPGCSSVAYGASEELGAFRVKPRGAGLVLNEYRWNKVANVFLDSPAGVGFSTNTSSD
IYTSNGNRHTAHSYAFKWFERFPHYKYRDFYIAGESYAGHYVPELSQLVHRSKNPVIN
LKGFMVGNGLIDDYHDYVGTFFFWWNHGIVSDDTYRRLKEACLHDSFIHPSACDAATDV
ATAEQGNIDMYSLYTPVCNITSSSSSSSSSSLSQRRSRGRYPWLTGSYDPCTERYSTAYY
NRRDVQMALHANVTGAMNYTWATCSDTINTHWHHDAPRSMPLIYRELIAAGLRIWVFSGDT
DAVVPLTATRYSIGALGLPTTTSWYPWYDDQEVGWSQVYKGLTLVSVRGAGHEVPLHRP
RQALVLFQYFLQKPMGQTKNAT

>accession|BAF47263.1|Putative tropomyosin fast isoform
[Marsupenaeus japonicus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF47265.1|Putative tropomyosin fast isoform
[Paralithodes camtschaticus]
MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANNRAEKAEEEVHGLQKRMQQLENDLDQV
QESLLKANTQLEDKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF47266.1|Putative tropomyosin slow-tonic isoform
[Paralithodes camtschaticus]
MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANNRAEKTEEEIRLTQKKMQQVENELDVA
QEQLSLANTKLEEKALQNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKNIADEMDQAFSELSGF

>accession|BAF47268.1|Putative tropomyosin slow-twitch isoform
[Erimacrus isenbeckii]
MDAIKKKMQAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLDEKEKALQNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA

DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF47269.1|Putative tropomyosin slow-tonic isoform
[Erimacrus isenbeckii]

MDAIKKKMAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKNIADEMDQAFSELSGF

>accession|AAM09530.3|Putative latherin [Equus caballus]

MLKVSCLFVLLCGLLVPSAQQIPPEVSSQITDALTOGLLDGNFLLSLLNAINLEGLLNTI
LDQVTGLLNILVGPLLGPDAEIKLQDTRLLQLSLEFSPDSKGIDIWIPLELSVYLKLLI
LEPLTLYVRTDIRVQLRLESDDEDGKYRLAFGHCSLLPRAIELQSGNPLSLPVNAVLTGIE
NALGNFITEDLGAGLCPTLNSLVSNDLQLVNLIINLILDRANVDLSV

>accession|ABO36677.1|Putative vicilin [Pistacia vera]

KTDPELKQCKHQCKVQRQYDEEQKEQCAKGCEKYYKEKKGREQEEEEEEWGSGRGRGDE
FSTHEPGEKRLSQCMKQCERQDGGQQQLCRFRQCQEKYKKERREHSYSRDEEEEEEGDEE
QEEEDENPYVFEDEHFTTRVKTEQGGVVVLPKFTKRSKLLRGLLEKYRLAFLVANPQAFVV
PNHMDADSIFFVSWGRGTITKIRENKRESMNVKQGDIIRIRAGTFYIVNTDENEKLYIV
KLLQPVNLPGHYEVFVHGPGENPESFYRAFVSREVLEAALKTPRDKLEKLFQDEGAIVK
ASKEQIRAMSRGEGPSIWPFTGKSTGTFFNLFKKDPSSNNYQQLFESEFKDYPPLOELD
IMVSYVNIKGGMSGPFYNSRATKIAIVVSGEGRLEIACPHLSSSKNSGQEKSGPSYKLL
SSSIRTDSVFVVPAGHPFVTVASGNQNLLEILCFEVNAEGNIRYTLGKKNIEVMEKEAK
ELAFKTKGEEVDKVFQKQDEEFFFFQGPQKWRQHQQGRADE

>accession|CAM54066.1|Allergen cell wall protein PhiA
[Aspergillus fumigatus]

MQIKSFVLAASAAATASAAACQAPTNYFGIVAIHSGSAVQYQPFSAKSSIFAGLNSQN
ASCDRPDEKSATFYIQDGSLLYAASATPQEIFVDRSGMGQKIGYTTGAQPAPRNSERQ
GWAIDSQNHLLQFQKDLIACPNSIDGAWSIWADAGVANPAGNTDCVGIARVEDVTNPNS
CVYTQ

>accession|ABO71783.1|Putative tropomyosin [Eriocheir sinensis]

MDAIKKKMAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF51970.1|Allergen thaumatin-like protein
[Cryptomeria japonica]

MAKVSDDLALLLVAGMAISLYIQETGAVKFDIKNQCGYTVWAAGLPGGGQQLTQGGTWTVN
LAAGTQSARFWGRTGCSFDASGKGTCTGDCGGQLSCTVSGAVPATLAEYTDQSDQDYD
SLVDGFNIPLSINPTNAQCTAPACKADVNAVCPAELKVDGGCKSACAAFQTDQYCCTGT
ANSCPATNYSMIFKNQCPQAYSYPKDDTATFACPSGTDYSIVFCP

>accession|ABO84963.1|Putative group 21 allergen
[Dermatophagoides farinae]

MKFIIFCAIVMAVSVSGFIVDVTEDKWRNAFDRMLMEEFGEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84964.1|Putative group 21 allergen
[Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84966.1|Putative group 21 allergen
[Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEEKIDQIEHGLLMLSEQYKE
SEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84967.1|Putative group 21 allergen
[Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84968.1|Putative group 21 allergen
[Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVPTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84969.1|Putative group 21 allergen
[Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVEDKWRGAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO93594.1|Putative BW10KD allergen protein
[Fagopyrum tataricum]
MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTDMMDDADSMRGQEC
RSEESCMRGCCMAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMQLPNKCGMGH
MRCHMGMGTRVYE

>accession|ABP04043.1|Allergen Bla g 4 allergen [Blattella
germanica]
AVLALCASDTLAMEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDA
LYSLYTDKGNKTAIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYDNYAIVEGCPA
AANGHVIIYVQLRLTWRRFHPKLGDKEMIQHYYTLQVNVQHKKAI EEDLKHFNLYEDLHST
CH

>accession|ABP04044.1|Allergen Bla g 5 variant allergen
[Blattella germanica]
YKLTYPVKALGEP I RFLLSYGEKDFEDYRFQEGDWPCLKPSMPFGKTPVLEIDGKQTHQ
SVAISRYLGGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQP NLKALRE
KVLGLPAIKAWVAKRPPTDL

>accession|ABP35603.1|Allergen Bla g 2 allergen variant
[Blattella germanica]
MIGLKIVTVLFAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCN
VVVASQECVGGACVCPNLQKYEKLKPRYISDGNVQVKFFDTGSAVGRGIEDSLTIFNLTT

SQQDIVLADELSQEVCLISADGVVGVIAAPGCPNALKGKTVLENFVEENLIAPVFSIHAR
FQDGEHFGEIIFGGSDWKYVDGEFTYVPLVGDDSWKFRLDGVKIGDTTVAPAGTQAIIDT
SKAIVGPKAYVNPINEAIGCVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSGFQPCGHSDFHFFIGDFFVDHYYSEFNWENKAMGFGRSVESV

>accession|ABP58627.1|Putative pollen allergen Ole e 5 [Olea europaea]

MVKAVTVLNSSEGVGTGVYFTQEGDGPPTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNVPVGKEHGTPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABP58632.1|Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHIQGGQIYCDTCRSRIFITELSEFIPGASVRLQCREKENGDITFTEIGYTRAEGLY
SMLVERDCHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKK
EALPKCAQVYNKLGMYPPNM

>accession|ABP58633.1|Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHIQGGQVYCDTCRAGFITELSEFIPGASVRLQCREKNGDITFTEVGYTRAEGLY
SMLVERDCHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLDMYPPNM

>accession|ABP58635.1|Allergen major pollen allergen Ole e 1 [Olea europaea] [Olea europaea]

PPVSQFHIQGGQVYCDTCRARFITELSEFIPGASVRLQCRDGENGSITFTEVGSTRAEGLY
SMLIERDCHKDEFCEITLISSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTVNPLGFFKK
EALPKCPQVFNKLGMYPPDM

>accession|ABP58636.1|Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHIQGGQVYCDTCRAGFITELSEFIPGASVRLQCREKNGDITFTEVGYTRAEGLY
SMLVERDCHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLGMYPPNM

>accession|ABP58637.1|Allergen major pollen allergen Ole e 1 [Olea europaea]

PPVSQFHVQGGQIYCDTCRAGFIAELSEFILGAGVRLQCRDSKKNITFTEVGYTRAEGLY
SMLIERDCHKNEFCEVNSLSSSRKDCDEIPIEGWVRPSLRFLNTVNGTTCTIKPLGFFKN
KALPKCPQVFNKLGMYPPDL

>accession|P80273.2|Putative Nonspecific lipid-transfer protein P3 (LTP P3) [Vitis sp.]

LSCGDVATQMASCINYLRGAGPLPAACCVGNLKNLNSATTTQDRRTACKCLISASKTISG
VNFGLAAGLPAKCGVSIPYKISPSTNCDQVN

>accession|ABP97433.1|Allergen Ara h 8 allergen isoform [Arachis hypogaea]

MGVHTFEEESTSPVPPAKLKFATVVDGDELTPKLIPAIQSIEIIVEGNGGPGTVKKVTAVE
DGKTSYVLHKIDAIDEATYTYDYTISGGTGFQEIILEKVSFKTKLEAADGGSKIKVSVTFH
TKGDAPLPDEVHQDVKQKSQGIFKAIEGYVLSN

>accession|ABQ10638.1|Putative vicilin-like protein [Fagopyrum esculentum]

GDYPFEPRRQIEHCRQRCQDRSQGFRETRECLETCEKRAGFDDEPSKEVDSYTTDTRSRD

PQQEFRQCRHRCQTQEEGGRQQRKCEQRCEKQLERQQGYDDEEFGQGRSNIGAPVRNYDD
CTEMCGGSPLCALFCE

>accession|ABQ42566.1|Allergen thaumatin-like protein [Actinidia
deliciosa]

ATFNI INNC PFTVWAAAVPGGGKRLDRGQNWIIINPSAGTKGARVWPRTGCNFDGAGRGKC
QTGDCNGLLQCQAFGQPNTLAEYALNQFNLDFFDISLVDGFNVAMEFSPTSGGCTRGI
KCTADINGQCPNELRAPGGCNPCTVFKTDQFCNSGNCGLTNFSKFFKDRCPDAYSYPK
DDQTSTFTCPAGTNYKVVFCE

>accession|CAM56785.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILADADCAA AVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLF LQVFKAGARAL TDAETKAF LKAGDSDGDGAIGVEEWAVLVKA

>accession|CAM56786.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILNDADITAA LAACKAEGSFDHKAFFTKVGLAAKSSADIKKVFEIIDQDKSDFVE
EDELKLF LQNF SAGARALSDAETKVFLKAGDSDGDGKIGVDEFGAMIKA

>accession|ABQ59329.1|Putative vacuolar serine protease
[Cladosporium cladosporioides]

DQEVHVLKSESEVEK NAWGLARISHRDSLSFGTFNKYLYTEDGGEGVDVYVVDTGTVND
HVD FEGRASWGKTI PQGDADEDGNHGHTHCSGT VAGKKYGVAKKAHV KAVKVLRSNGSGS
MSDVVKGV EYAAESHLEQVSI AKKGRKGF KFGSTANMSLGGGKSP ILDKAVNAAVDAGIH
FAVAAGNDNADSCNYS PAAAENAVTVGASTLS DERAYFSNYGKCNDIFAPGLNIQSTWIG
SKYAVNTISGTSMA SPHVAGLLAYLLSLQPAKDSAF AVADISPKK LKANLIS IATVGALT
DVPSNTANILAWNGG GESNYS AIVEKGGYKAAVRPTMLEEIESEAKVASKKVYSEGDELA
KKVAELTEKIEDLISGDLKDMFRDLKRE

>accession|ABQ96644.1|Putative tropomyosin [Tyrophagus
putrescentiae]

MEAIKKKMQAMKLEKD NAIDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLGNDLDQV
QESLLKANIQLVEKDRALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVL ENRSL SDEKRM DALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKEYKSITDEL DQTFSEL TGY

>accession|CAK50834.1|Putative art v 2 allergen [Artemisia
vulgaris]

MHGLGNFWLVLAISFAI LHL SHAHETYGEPGNT PDDYVHAHNCIRRVLG MKPLCWDEIGK
VAQAWAETRTPDCSLIHS DR CGENMAQGAINGSM AVQLWLDERLDYDYNENKCIKMGHY
TQIVWANSERVGCGRALCSNGWAYIIVCNYDPPGNVVGQKPY

>accession|ABR21771.1|Putative conglutin beta [Lupinus
angustifolius]

EERQEEERERRRREPCREREQEQQPQHGRREEEEEEEEWQPRRLRPQSRKEEREQE QGSSS
SSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRRQRNPHYFSSERFQTRYRNRNGQIRV
LERFDQRTNRLENLQNYRIVEFQSNPNTLILPKHSDADYILVVLNGRATITIVNPDKRQA
YNLEYGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPSNFYDFYPSSTKDQQS YFSG
FSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRGQE QSYQDEGVIVRVSKEQIQELRK
HAQSSSRKGPSESGPFNLSNESIYSNKFGNFYEITPERNPQVQDLDISLTFTE INEGA
LLLPHYNSKAI FIVVDEGEGNYELVGIRDQQRQQDEQE EEEEEVRRYSARLSEGDIFVI
PAGYPISVNASSNLRLLLGFGINANENQRNFLAGSEDNVISQLDREVKELTFPGSAQDVER
LIKNNQQSYFANAQPQQKQQRKEGRRGRRSLISSILSTLY

>accession|ABR21772.1|Putative conglutin beta [Lupinus

angustifolius]

MAKMRVRLPMLILLGVVFLAASIGIAYGEKDF'TKNPPKEREHEEPRQQPRPRQOEE
QEREHRREEKHDGEPSSRGRSQSEESQEEHERRREHHREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQGSSSSGSRGSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLNQLNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPDKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYFSTTKDQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINELWLTKKEIMN

>accession|ABR29644.1|Putative manganese superoxide dismutase-
like protein [Pistacia vera]

MALLSYVTRKTLTESLRLGLKSHVRGLQFTFLPDLPEYGALEPAISSEIMQLHHQKHHQ
TYITNYNKALEQLDQAINKGDASAVVKLQSAIKFNGGGHINHSIFWKNLTPVSEGGGEP
HGSLGWAIDTNFGSMEALIQRMNAGEAALQSGWVWLGLDKESKKLVVETTANQDPLVTK
GPSLVPLLGLIDVWEHAYYLQYKNVRPDYLNKNIWKVINWKYAGELYQKECP

>accession|ABS12233.1|Putative tropomyosin [Scylla serrata]

MDAIIKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>accession|ABS12234.1|Putative tropomyosin [Portunus
trituberculatus]

MDAIIKKMQAMKLEKDNAMDRANTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELSGY

>accession|ABS29033.1|Putative Alt a 1 major allergen
[Stemphylium sp. CID1012]

LAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNLSLFSNIKATNKGTLDFTC
SAQADKLEDDKFYSCGENSFMSFAFQSDRNLGLFRQDVSDEITYVATATLPNYCHAGNG
PKDFVCQGVSDAYFTLV

>accession|ABS58503.1|Putative serine proteinase inhibitor-like
allergen [Triticum aestivum]

MSPVVKKPEGNTDTGDHNNQKTEWPELVGKSVEEAKKVIMQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKDIAQVPRVG

>accession|BAF75681.1|Putative SXP/RAL-2 family protein 2 isoform
1 [Anisakis simplex]

MKVLFFVAAVVAVSLAQDQGPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75704.1|Putative SXP/RAL-2 family protein 2 isoform
2 [Anisakis simplex]

MRVLFFVAAVVAVSLAQDQGPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75705.1|Putative SXP/RAL-2 family protein 2 isoform 3 [Anisakis simplex]
MKVLEFFVAAVVADSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQATEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75706.1|Putative SXP/RAL-2 family protein 2 isoform 4 [Anisakis simplex]
MKVLEFFVAAVVAVPLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75707.1|Putative SXP/RAL-2 family protein 2 isoform 5 [Anisakis simplex]
MKVLEFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAYAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75708.1|Putative SXP/RAL-2 family protein 2 isoform 6 [Anisakis simplex]
MKVLEFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFRDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75709.1|Putative SXP/RAL-2 family protein 2 isoform 7 [Anisakis simplex]
MKVLEFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FANDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTATADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75710.1|Putative SXP/RAL-2 family protein 2 isoform 8 [Anisakis simplex]
MKVLEFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNNHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75711.1|Putative SXP/RAL-2 family protein 2 isoform 9 [Anisakis simplex]
MKVLEFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAESTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75712.1|Putative SXP/RAL-2 family protein 2 isoform 10 [Anisakis simplex]
MKVLEFFVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELDKLNNQQGQS

>accession|ABU42022.1|Putative 11S globulin [Pistacia vera]
MGYSSLLSFSLGFLLLFHCSFAQIEQVVNSQQRQQRFQTCQIQNLNALEPKRRIESE
AGVTEFDWQNEEQQLQCANVAVFRHTIQSRGLLVPSYNNAPELVYVVQSGIHGAVFPGCP
ETFQEESSQSRSRSRSRSRSQSGEQHQKVRHIREGDI IALPAGVAHWIYNNQSKLVL
VALADVGNSENQLDQYLKFKVLGGSPQEIQGGGQSWQSRSRSGKQSSNNILSAFDEEI
LAQSLNIDTQLVKKLQREEKQIRGI IVRVKEDLQVLSPPRQEQEKEYSDNGLEETFCMTLKL
NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY

ITRGNRMQIVSENGESVFDEEIREGQLVVVPQNFVAVVKRASSDGFVWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSQQRN

>accession|ABU49605.1|Allergen Der f 1 allergen
[Dermatophagoides farinae]
MKFVLAIVSLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES�KYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVQKIREALTQHTTAIAVI
IGIKDLRAFQHYDGRITIIQHDNGYQPNYHAVNIVGYGSTQGVYDWIVRNSWDTTWGDSDGY
GYFQAGNNLMMIEQYPYVIM

>accession|ABU53681.1|Putative tropomyosin [Sinonovacula
constricta]
MDAIIKKMQAMKIEKENALDKSEQLENKLEIEDVKVKIEEDLTSLQKKYTNQENEYDKV
NEQFNESTVKLEASEKRVTECEDEIKGFTRRIQLLEDELEERTQQKAEAVLKLEEASKAA
DESERGRKVLERSIADDDRIDKLEKDVKDSKYLAEEADRKYDEAARKLAITEVDLERAE
TRLEAAESKITELSEELQVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNLQKEVDRLLEDELLQEKEKYKQISDELDQTFFAELAGM

>accession|BAF76430.1|Allergen tropomyosin [Euphausia superba]
MDAIIKKMQAMKMEKDSAMDRSDALEAQNKETNAKADKADDEVHNLQKRLQTLLENDLDQV
SEALLKANTQLVEKDKALQNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLLENRSMLDEERMDALESQKLEARLLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKGITDELDQTFNELSGY

>accession|BAF76431.1|Allergen tropomyosin [Euphausia pacifica]
MDAIIKKMQAMKMEKDSAMDRADALEAQNKETNARAEKADDEVHNLQKRLQTLLENDLDQV
SEALLKANTQLVEKDKALQNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLLENRSLLDEERMDALENQLKEARLLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKGITDELDQTFNELSGY

>accession|ABU95411.1|Putative Sin a 3 allergen [Sinapis alba]
ALSCGTVNSNLAACIGYLTQNAPLPKGCCTGVTNLNMARTTPDRQQACRCLVGAANSFP
SLNAARAAALPKACGVNIPYKISKSTNCNSVR

>accession|ABU95412.1|Putative Sin a 4 allergen [Sinapis alba]
MSWQTYVDDHLMCDVEGNRLTAAAILGQDGSVWAQSANFPQLKPEEIKGINNDFAEPGTL
APTGLFIGGTKYMVIQGEPNVIRGKKGAGGVTIKKTQAFVFGIYEEPMPGQCNMVVE
RLGDYLIEQGL

>accession|ABU97466.1|Allergen group 10 allergen Blo t 10
[Blomia tropicalis]
MEAIKKMQAMKLEKDNAIDRAEIAEQSRDANLRAEKSEEEVRALQKKIQQIENELDQV
QESLTQANTKLEEKESLQTAEGDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMKMLEHRSITDEERMDGLESQKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGETKIVELEEEELRVVGNNLKSLEVSEEKAQQREEAYEQQIRMMTGKLKEAEARAE
FAERSVRKLQKEVDRLLEDELVHEKEKYKQISDELDQTFFAELTGY

>accession|ABU97470.1|Putative arginine kinase [Dermatophagoides
farinae]
MVDQATLSKLEAGFQKLQNAQDCHSLLKYLTRDVLQKTKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFALFDPIIDDYHKGFKPTDKHPQTDGNIHFVNVDPKNEYV

ISTRVRCGRSLKGYFPNPLTEAQYKEMETKVKGQLATFEGELKGTYYPLLGMKDQATQOK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EVFGRVLKAVKHIEQKIPFSRDDRLGYLTFPCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AARYNLQVRGTAGEHTESVGGIYDISNKRRMGLTEYQAVKEMQDGIIELIKMEKSL

>accession|ABU97472.1|Putative profilin [Glycine max]
MSWQAYVDDHLLCEIEGNHLTHAAIIGQDGSVWAQSTNFPQFKPEEITAINNDFNEPGSL
APTGLYIGGTKYMVIIQGEPEGAVIRGKKGPGGVTVKKTGAALIIGIYDEPMPGQCNMVVE
RLGDYLDIDQGL

>accession|ABU97479.1|Putative tropomyosin [Tyrophagus
putrescentiae]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLKSEKTEEEVRALQKKIQQIENELDQV
QENLTQATTKLEEKEKALQTAADVAALNRRIQLIEEDLERSEERLKVATAKLEEAHSA
DESERMKMLEHRSIPDEERMDGLESQKKEARLMAEDADRKYDEVARKLGMVEAHLERAE
ERAQLGIXIAKLERTARLRHT

>accession|ABU97480.1|Putative allergen Tyr p 13 [Tyrophagus
putrescentiae]
MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGDSTIKTSSTLKN
EIKFKLGEFEEDRADGKQVQTSVTKEGDNKLVQVQKGDKPVTIVREFSEEGLTVTATVN
GATSVRFYKRQ

>accession|ABV55106.1|Putative Ani s 9 allergen precursor
[Anisakis simplex]
MKLCILAVAVFVVAVSAQGPPLPPFVANAPPAVQAEFRQLANGAPDKTEAEIEAQIEQW
VASKGGAVQAEFNKFKQMLEQKARAEAAHQASLTRLSPAACAADARLSAIASNRALKVG
EKQRQLAAAFQALDPAVKAELQKEMQG

>accession|ABV66255.1|Allergen Der p 1 allergen
[Dermatophagoides pteronyssinus]
TNACRINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQ
ELVDCASQHNGCHGDTIPRGIEYIQHNGVVQESYRYVAREQSCRPNQRFGISNYCQI
YPQNVNKIREALQTHSAIAVVIIGIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSN
AQGVYDWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|1A9V_A|Allergen Chain A, Tertiary Structure Of The
Major House Dust Mite Allergen Der P 2, Nmr, 10 Structures
[Dermatophagoides pteronyssinus]
SQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQYDIKYTWNVPKIAPKSENVVTVKVMGDDGVLACA
IATHAKIRD

>accession|1CQA_A|Allergen Chain A, Birch Pollen Profilin [Betula
pendula]
MSWQTYVDEHLMCDIDGQGEELAASAIVGHDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMYIQQEAGAVIRGKKGSGGITIKKTGQALVFGIYEETVTPGQCNMV
VERLGDYLDIDQGL

>accession|ABW17159.1|Putative Ara h 7 allergen precursor
[Arachis hypogaea]
MVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEKEQEQQEYPIYIQRGSRGQRPGESEDEDQEQRCNENLRFQNNQRCCMCQALQQIL
QNQSFRFQQDRSQLHQMERELRNLPQNCGFRSPSRCDLSSRTPY

>accession|ABW23574.1|Putative 8S globulin alpha subunit [Vigna radiata]
MVRARIPLLLLLGILFLASLSVSFGIVHRENIDGAEVSVSRGKNNPFYFNDRWFHTLFR
NQFGHLRVLQRFDQORSKQMQNLENYRVVELMSKPNTLLLPHPHADADFLLVVLNGRAVLTL
VNPDRGRDSNILEQGHAKIPAGTTFFLVNPDDNENLRI IKLAVPVNNPHRFQDFFLSSTE
AQQSYLQGFSGKNILEASFDSDIKEISRVLFGEEGQQQQQQQESQQEGVIVELKREQIREL
TKHAKSSSKSLSSSEDQPFNLRNQKPIYSNKLGRWFEITPEKNPQLRDLDMFIRSVDMKE
GSLLLPHYNSKAIIVILVINEGKANIELVGQREQQKQQEEQEEESWEVQRYRAELSEDDVFI
IPATYPVAINATSNLNFFAFGINAENNRNFLAGEKDNVISEIPTEVLDVTFPASGEKVK
KLIKKQSESQFVDAQPEQQEREEARKGGKGPVY

>accession|ABW34946.1|Allergen hevein [Hevea brasiliensis]
MNI FIVLLCLTGVIAIEQCGRQAGGKLCNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD
SGEGVGGGSASNVLATYHLYNSQDHGWDLNAASAYCSTWDANKPYSWRSKYGWTAFCGPV
GAHQGPSCKLSVTNTGTGAKTTVRIVDQCSNGGLDLVDVNVFRQLD TDGKGYERGH LTV
NYQFVDCGDSFNPLFSVMKSSVIN

>accession|P15476.2|Allergen RecName: Full=Patatin-B1; Flags:
Precursor [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPF AAADIVPFYFEHGHPIFNYSGSI
FGPRYDYGKYLQLVLEKLGQTRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSIAAAP IYFPPHFFVTHTSNGATYEFNLVDGGVATVGD PALLSLSVATR LAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAK WGPLRWMLAIQQLTNAASSYMTD
YYISTVFQARHSQNNYLRVQENAL TGTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSNRKKLRANKASY

>accession|ABW86978.1|Putative 11S legumin protein [Carya illinoensis]
MAKPILLSIYLCLIIVALFNGCLAQSGGRQQHKFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQQLQCAGVAVVRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGCPETFEEES
QRQSQQQRREFQQRHQRIRHFREGDIIAFPAGVAHWYNDGSSPVVAIFLLDTHNNAN
QLDQNP RNFYLAGNP DDEF R P Q Q Q E Y E Q H R R Q Q H Q Q R R G E H G E Q Q R D L G N N V F S G F D A
EFLADAFNVDTETARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SESERRQSRGGRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPILRW
LQLSAERGALYSDALYVPHWNLNAHSVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARDEGF EWVSFKTNENAMVSPLAGRTSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSRSRSSRSERRAEV

>accession|ABW86979.1|Putative 11S legumin protein [Carya illinoensis]
MAKPILLSIYLCLIIVALFNGCLAQSGGRQQHKFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQQLQCAGVAVVRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGCPETFEEES
QRQSQQQRREFQQRHQRIRHFREGDIIAFPAGVAHWYNDGSSPVVAIFLLDTHNNAN
QLDQNP RNFYLAGNP DDEF R P Q Q Q E Y E Q H R R Q Q H Q Q R R G E H G E Q Q R D L G N N V F S G F D A
EFLADAFNVDTETARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SGSERRQSRGGRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPILRW
LQLSAERGALYSDALYVPHWNLNAHSVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSRSRSSRSERRAEV

>accession|1B6F_A|Allergen Chain A, Birch Pollen Allergen Bet V 1
[Betula pendula]
GVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY

HTKGDHEVKAEQVKASKELGETLLRAVESYLLAHS DAYN

>accession|1H2O_A|Allergen Chain A, Solution Structure Of The Major Cherry Allergen Pru Av 1 Mutant E45w [Prunus avium]
GVFTYESEFTSEIPPPRLFKAFLVDADNLVPKIAPQAIKHSEILWGDGGPGTIKKITFGE
GSQYGYVKKHIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIKSTSHY
HTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>accession|1W2Q_A|Allergen Chain A, Allergen Arah6 From Peanut (Arachis Hypogaea) [Arachis hypogaea]
GPMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRMGEQEYDSYDIRSTRSSDQQQRC
CDELNEMENTQGCMCEALQQIMENQCDRLQDRQMVOQFKRELMSLPQQCNFRAPQRCDL
VSGGRCS

>accession|ABW98943.1|Allergen alpha S1 casein [Bos taurus]
VSAALARPKHPKIKHQGLPQEVNLNLLRFFVAPFPFVFGKEKVNELSKDIGSESTEDQAM
EDIKQMEAESISSSEEIVPNSVEQKHQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPN
SAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYYVPLGTQYT
DAPSFSDIPNPIGSENSEKTTMPLW

>accession|ABW98945.1|Allergen alpha S1 casein [Bos taurus]
FSEVFGKEKVNELSKDIGSESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHQKEDV
SERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFY
PELFRQFYQLDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>accession|ABW98953.1|Allergen alpha S1 casein [Bos taurus]
IVPNSVEQKHQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHA
QQKEPMIGVNQELAYFYPELFXQFYQPDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIG
SENSEKTTMPLW

>accession|2JMH_A|Allergen Chain A, Nmr Solution Structure Of Blo T 5, A Major Mite Allergen From Blomia Tropicalis [Blomia tropicalis]
GSQEHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQLDLNLNENKSKELQEKIIRE
LDVVCAMIEGAQGALERELKRTDLNILERFNYYEEAQTLSKILLKDLKETEQKVQDIQTQ

>accession|ABX26131.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPTTGTGNLSGLKPKGLHGFHVHALGDTTNGCMSTG
PHFNVPVKGHEGAPGDNHRHAGDLGNIAVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIIGLQG

>accession|ABX26132.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGLTGTGNLSGLKPKGLHGFHVHALGDTTNGCMSTG
PHFNVPVKGHEGAPGDNHRHAGDLGTAAINIVDKQIPLTGPHSIIGRAVVVHSDPDDLGRG
CHELSKSTGNAGGRVACGIIIGLQG

>accession|ABX26134.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPTTGTGNLSGLKPKGLHGFHVHALGDTTNGCMSTG
PHFNVPVKGHEGAPGDNHRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHEQSKSTGNAGGRVACGIIIGLQG

>accession|ABX26138.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPTTGTGNLSGLKPKGLHGFHVNALGATTNGCMSTG
PHFDPVKGHEGAPGDNHRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIIGLQG

>accession|ABX26139.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVFNSSEGVGTGVYFTQEGDGLTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGDAGGRVACGIIGLQG

>accession|ABX26140.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVTCGIIGLQG

>accession|ABX26141.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVAGTVYFTQEGDGPPTTVTGNLSGLKPGLHGFHAHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX26143.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDRQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX26145.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX26147.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54842.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54844.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTVTGNLSGLKPGLHGFHVHALGDATNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54849.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTVTGNLSGLKPGLHGFHVHALGDITNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54855.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGVYFTQEGDGPPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAISIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRSGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54859.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVAGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54862.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDFGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54864.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVINSSEGVGTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAAINIVDKQIPLTGPHSIIIGRAVVVHSDPDDLGRG
GHELKSTGNAGGRVACGIIGLQG

>accession|ABX54866.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEQGAPGDENRHAGVLDGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54869.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHVLSKSTGNAGGRVACGIIGLQG

>accession|ABX54876.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVLNSSEGVGTGTVYFTQKGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFLPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54877.1|Putative Ole e 5 olive pollen allergen
[Olea europaea]
MVKAVTVFNSSEGVGTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX56711.1|Putative LTP isoallergen 1 precursor
[Arachis hypogaea]
MASLKFAFVMLVCMAMVGAPMVNAISCGQVNSALAPCIPFLTKGGAPPPACCSGVRGLLG
ALRTTADRQAACNCLKAAAGSLRGLNQGNAALPGRCGVSIPYKISTSTNCATIKF

>accession|ABX57814.1|Putative delta class glutathione S-
transferase [Blattella germanica]
MTIDFYYPGPSAPCRSVLLAAKAFGVNLSLKVNTLMAGEHLTPFLKMNPOHTIPTLNDN
GFCLWESRAILSYLADQYKDDSLYPKDPKRALVDQRLYFDLGTLYQRFQDYYPIMFA
KASPDAEKMKLEEAYQFLDKFLEGQKQFVAGNSLTIADIATIASVSTAAILGFDITRYPN
VNWKFENAKKVIPGYDELNHSGCLEFRKMWDNLTQK

>accession|ABX75045.1|Putative LTP isoallergen 2 [Arachis

hypogaea]
LSCGQVNSALAPCITFLTKGGVPSGPCSSGVRGLLGAAKTTADRQAACNCLKAAAGSLHG
LNQGNAAALPGRCGVSIPYKISTSTNCATIKF

>accession|BAF95206.1|Allergen tropomyosin [Oratosquilla
oratoria]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKAEVEVHNLQKRMQQLENDLDQV
QEQLLKANTQLEEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKQLTNKCLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|ABY21305.1|Putative pollen allergen Pla o 1 [Platanus
orientalis]
MKLSFSLCIFFLISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHSADLQGLGVISA
NLAIQQGSKIQTFIGRILKSKVDPALKKYLNDVGLYADAKSSVQEIADFKSKDYASAN
VKMSAALDDSVTCEDEGFKKGIASPVTKENKDYVQLTAISLAITKLLGA

>accession|ABY21306.1|Putative pollen allergen Pla o 2 [Platanus
orientalis]
MRGVQSSGGTFNVNDYGAKGSGDISQAVMKAWAACAASPGPSTVLIPTGNYIMGEVLLEG
PCKGSKIGFQLDGVVKAPADVSAFKSEGWVFNHVDGLTVSGKGTFDGQGQKAWAANNCD
KDENCNRPPMNIRFNFLKNAVVRDITSMNSKMFHINVLECDNISFQHVTISAPGTSINTD
GIHIGLSRGVTITDTNIATGDDCVSIGPGSQNVTVTKVNCGPGHGISVGSGLGKYKDEKDV
RGITVTGCTFTGTSTNGVRVKTWPDSPPGVATDMAFEDLTMKNVQNPVILDQEYCPYGQCS
LKAPSRVKLSNIKFNNIRGTSSGPDIAIVACSHGFPCSNLEIGEINLALHAAGAPANSTC
TNAKPIFSGKQVPAIKCA

>accession|ABY28115.1|Putative Der f 3 allergen precursor
[Dermatophagoides farinae]
MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCVNGQSAKKLSIRNNTLKHASGGEKIQVAEIQHENYDSMTIDNDVALIKLKT
PTTLDQTNAPVPLPAQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDGSGGPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>accession|ABY53034.1|Allergen Der p 2 allergen
[Dermatophagoides pteronyssinus]
MYKILCLSLVAAVARDQVDVKDCANHEIKKVLVPGCHGSEPCIHRGKPFQLEADFEAN
QNRKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

>accession|CAK93713.1|Allergen profilin [Malus x domestica]
MSWQTYVDDHLMCEIEGNHLSAAAIIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEPEGVVIRGKKGPGGVTVKKSTMALLIGIYDEPMTPGQCNMVVE
RLGDYLIEQGL

>accession|CAK93753.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNSLTAAAILGQDGSVWAQSATFPQAFKPEEIAAILKDFDQPRTL
APTGLFLGGTKYMVIQGEPEGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIIVE
RLGDYLIEQGL

>accession|CAK93757.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNSLTAAAILGQDGSVWAQSATFPQAFKPEEIAAILKDFDQPRTL
APTGLFLGGTKYMVIQGEPEGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIIVE

RLGDYLI EQGL

>accession|A2VBC4.1|Putative Venom phospholipase A1 precursor
(Allergen Poly p 1) [Polybia paulista]
MNFKYSILFICFGTLDRGLIPECPFNEYDILFFVYTRQQRDGI VLTEETLQNYDLFKKST
ISRQVVFIDHGFLSNGNNENFIAMAKALIEKDNFLVISVDWKKGACNAFASTLDYLGYST
AVGNTRHV GK YVADFTKLLVEQYKVSMSNIRLIGHSLGAHTSGFAGKEVQELKLNKYSNI
DGLDPAGPSFDSNDCPERLCETDAEYVQIIHTSNILGVYSKIGTVDFYMNYGSHQPGCGR
FFSPSCSHTKAVKYLTECIKHECCLIGTPWKKYFSTPKPISQCTKDTCVCVGLNAKSYP
RGSFYVPVEATAPYCHNEGIKL

>accession|2JON_A|Allergen Chain A, Solution Structure Of The C-
Terminal Domain Ole E 9 [Olea europaea]
ATPTPTPKAAGSWCVKPGVSDQLTGNINYACSQGIDCGPIQPGGACFEPNTVKAHAAY
VMNLYYQHAGRNSWNCDFSQTATLTNTNPSYGACNFPSSGN

>accession|ABZ81040.1|Allergen pollen allergen Car b 1 isoform
[Carpinus betulus]
MGVFN YEAETPSVIP AARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVN A EEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|ABZ81041.1|Allergen pollen allergen Car b 1 isoform
[Carpinus betulus]
MGVFN YEAETPSVIP AARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSVVKISSK
FHAKGDHEVN A EEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|ABZ81042.1|Allergen pollen allergen Car b 1 isoform
[Carpinus betulus]
MGVFN YEAETPSVIP AARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVN A EKMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|ABZ81043.1|Allergen pollen allergen Car b 1 isoform
[Carpinus betulus]
MGVFN YEAETPSVIP AARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVN A EEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|ABZ81044.1|Allergen pollen allergen Car b 1 isoform
[Carpinus betulus]
MGVFN YEAETPSVIP AARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGIPFKFVKERVDEVDNANFKYSYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVN A EEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|ABZ81045.1|Allergen pollen allergen Que a 1 isoform
[Quercus alba]
MGVFT HESQETSVIAPARLFKALFLSDNLIQKVL PQA I KSTEI IEGNGGPGTIKKITFG
EASKFKYAKHRIDALDPENCTYSFSVIEGDALTVMESVSTEIKCVASPDGGSIMKSTTKY
QTKGDFQLKEEQIQAAIEKAAGLLKAVEAYLV AHPDLYK

>accession|ABZ81047.1|Allergen pollen allergen Que a 1 isoform
[Quercus alba]
MGVFT HESQETSVIAPARLFKALFLSDNLIQKVL PQA I KSTEI IEGNGGPGTIKKITFG

EGSHLKHKHRIDVIDPENFTYSFSVIEGDALFDKLENVSTETKIVASPDGGSIAKSTSK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDLYK

>accession|ABZ81991.1|Allergen Tyr p 3 [Tyrophagus
putrescentiae]

MKILLFLCFLVSVAFAPPTIQLKSNTKSQNGFIVGGTEAVDGDAPHQVSLQHTSHFCGG
SIIISERWILTAAHCIDADDLSNPGGMSVRYNTLNLKSGTLVKVKSIVKHEQYSNVTSND
IALLETVASMNLNQTNAVAAKLPAKGNPDQDGLFLSGWGTLSHSDTTIPTNLQKVTVP
TNRVCAEAYTGIVNITENMFCAGKMGIGGVDSCQGDSSGGAMLNKLGVVVSFGVCGD
PKYPGVYTRVSQYLDWIELSAKSSATTLVAVNITLFLTLFIGAIW

>accession|ACA00159.1|Allergen dipeptidylpeptidase IV
preproprotein [Vespula vulgaris]

MVPLRSFVLLNSLFLVLLAARTVVTRVIDKDNSDRIVKTQNDQNLKVPFNLEETYTADF
LAYVFNGTWTSDTTIVYTDRTGDILQFDVIKQRSTLIVDSSVMDAYIVSNYVLSPKGRY
LLIGYDLKKGRYSTFMRYVIYDIEHRAHYKIGNDMHIALAKWAPLTDDLIIYILDNDIYY
MRFSNNGFNDVQRVTYDGISGIVYNGVDPWVYEEVLQDSSAIWFSPDGNHLAYASFDDR
NVQELIYLHYGEPGNLDDQYPTVEVKIKYPKVGTLPVVSLLTLDLHDPTLNKIDLKAPHY
AVGTDNLLYNVQWKDFDHVVVWTSNRVQNKTEIVWYNMYGEIVKTLHVVEHKGWLDIKHL
FFYKGSVYIRKLPQSGTKAGRFFHVTRYDETFKQSPQMDLTPDAIEVQNICITIDQSNR
IYYLASGLGKPSQKNLYSVPADGSEKPTCISCNVLTPEGNVCTYADAI FSPLGQYYVLC
HGPDPAFVSI FNNAHQKVYSWENNLSLRKKLAKRHLPLVKDL DVRANGYESKVRFLPHN
FDESKSY PMLVN VYAGPNTLKI IDAASYGHQVYMTNRSVIYAYIDGRGSSNKGSKMLFS
IYRKLGTVEVEDQITVTRQLQEMFPWIDSKRTGVWGWSYGGFSTAMILAKDTSFVFKCGI
AIAPVSSWIYYDSIYTERFMGFPTPEDNLSGYNETDVSRRVEDIRGKKFMLIHGSGDDNV
HYQQSLALAKALEKADVMFEQITYTDEAHALFGVLP HLYHTMDRFWSDCFSLSHAH

>accession|ACA00204.1|Putative arginine kinase [Periplaneta
americana]

MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAEPKGQFYLLTGMTKEVQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDLG
QVYRRLVTAVNDIEKRIPFSDHDLGFLTFCTNLGTTVRSVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRMRGLTEYDAVKEMNDGIAELIKLESSL

>accession|ACA23876.1|Allergen Pas n 1 allergen precursor
[Paspalum notatum]

MGSLAKIVAAVLAALVAGGSCGPPKVPVPGPNITTNNGKWLPAKATWYGQPNGAGPDD
NGGACGIKNVNLPPYNGFTACGNPPIFKDGKGCSCYEIRC NKPECSGQPVTVFITDMNY
EPIAPYHFDLSGKAFAAMAKPGLNDKLRHYGIFDLEFRVRCKYQGGQKIVFHVEKGSNP
NYLAMLVKFVADDGDIVLMELKEKSSDWKPKLSWGAIWRMDTPKALVPPFSIRLTSESG
KKVIAQDVIPVNWKPDTVYNSNVQF

>accession|ACA79908.1|Allergen Ara h 8 allergen isoform 3
[Arachis hypogaea]

MGVFTFEDEITSTLPPAKLYNAMKDADSITPKIIDDVKSVEIVEGNGGPGTIKKLTIVED
GETKFILHKVEAIDEANYAYNYSVVGVALPPTAEKITFETKLVEGPNGGSIGKLSVKFH
SKGEAKPEEEDMKKKGAKGEALFKAIEGYVLANPTQY

>accession|ACA96507.1|Putative Pac c 3 allergen [Pachycondyla
chinensis]

TEGGAVHTMCQYTSPQPSNCGTYSNAHITAADKETILKVHNDERQKVKAGQETRGNPGP
QPAASNMPDLTWDNELAAIAQRWVNQCKIGHDGCERNVERYQVQNIAMSGSTAKGPCNMN
NLVQMWINEVNALNAADVSSMPSDGNFYFMKIGHYTQLVWGKTTKVGCIIQFLDGKFKYC

YLACNYGPAGNMFGAPIYQ

>accession|ACB05815.1|Putative conglutin beta [Lupinus angustifolius]

MAKMRVRLPMLILLLLGVVFLLAASIGIAYGEKDFTKNPPKEREHEPRQPPRPRQQEE
QEREHRREEKHDGEPGRSRSQSEESQEEHERRREHRREREQEQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQGSSSGSQRGGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLNLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYPTTKDQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSSESGPFNLSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINEGALLLPHYNSKAI FIVVVEGEGNYELVGIRDQQRQ
QDEQEEYEQGEVEVRRYSKLSKGDVFIIPAGHPLSINASSNLRLLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGR
GPISSILNALY

>accession|ACB38288.1|Putative Lit v 1 tropomyosin [Litopenaeus vannamei]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELQTFSELSGY

>accession|ACB45874.1|Allergen pathogen-related protein 1 [Cucumis melo var. inodorus]

MLPFSFAQDSIKDFVDAHNAARAQVGVGPVHWNKTVADYAHQYANKRIKDCNLVHSGKPY
GENIAWGSRLNAGTVAVRMWVSEKQFYNYDTNSCVRGKMGHYTQVVRNSVRIGCAKVR
CKSGGTFITCNYDPRGNIRGQRPYGEGLQL

>accession|ACB46292.1|Allergen dust mite allergen precursor [Dermatophagoides pteronyssinus]

MKFNIIVFISLAILVHSSYAANDNDDPTTTVHPTTTEQPDDKFECPFRFGYFADPKDP
HKFYICSNWEAVHKDCPGNTRWNEDEETCT

>accession|ACB55491.1|Putative seed maturation-like protein precursor [Sesamum indicum]

MQFFSSRLGSSRVLATTLSHFHYNPCTNKAHFTKAQLLPAAPYSNKL VIRSMASSGQQF
PPQKQEQPGKEHIMDPTPQATTPEYKPAKLVGKVALVTGGDSGIGRAVGHCFALLEGAT
VAFTYVKGQEDKDANDTLGMLMKAKHADAKDPIAIPDLGYDENCRRVVEEVNMYGRID
ILVNAAEQYEASTVEEIDEPRLERVFRNTNIFSYFFTSRHALKHMKEGSSIINTTSVNAY
KGNAKLLDYATKGAIVAFTRGLALQMVKIRVNGVAPGPIWTPPLIPASFTEDENAKFG
SQTPMKRAGQPHEVAPSYVFLASNIDSSYITGQVLHPNGGTIVNG

>accession|ACC76803.1|Putative Lit v 3 allergen myosin light chain [Litopenaeus vannamei]

MSRKSGRSSSKRSKSGGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFMTLLNMFAERQTGESDDDDVAKAFLAFADEEGNID
CDTFRHALMTWGDKFSQEQEADDALDQMDIDDGGKIDVQGVIQMLTAGGGDDAAAEAA

>accession|NP_001119715.1|Allergen venom dipeptidyl peptidase 4 precursor [Apis mellifera]

MEVLVQLALLLVVHGLSVLVVAGKSVPRVIDQDLERYEPLLEEDHRGARVPFNLEETYDQ
SFRANSFNGTWKTREILYSDNYVGDIRLFDVTTGSGTVLLDSSVTADFDKASVMFSDN
SHVAIGHDYVNGFRYSIHQKCTVYNIKSRTFTDIANGDRIPLFKWSPTRNALIYVHKNDI

YYQVFFEGGSDTRRITNTGVPDIVFNGIPDWVYEEVVLGSPVAFWISPDGRHLAFATFND
TNVRDIVISKYGGSPGNSRDQYPNEIRIKYPKAGTTNPFVLSVIDLHDPSSKLIDLPPP
DVVGADNVLYTANWRRDGEIVATWTNRVQNKALVLYDTKGNANNIYEEETEGWLRIQP
PLYHDRVIVAKLQDSGKAGRFLHATRLEYRNGALVDETDLTPGTCEVISLLLVDHARA
RLYYLGTGELGKPSHKNLYSVQLSGNEPPVCLSCDVLTPEGNRCTYAYAYFSTNGSHYALY
CAGPDPVFIAIVNANHRQISIWEEENRSLRRKLAARTQPIVKNFNVNANGYTNKVLYLPP
DFDETKKYPLLITVYAGPNTIRITEEATYGFESYIVTNRSVIYGRIDGRGSAYKGSKMLF
EIYRRLGTVEIEDQIIITRTLQEKYSWIDSNRTGIWGSYGGFSAAMVLATDAESVFKCG
ISVAPVTSWIYYDSLYTERFMGLPTPEDNQSGYNDTDVSRRVEGMRGKKYMLIHGTADDN
VHYQQTMMLNKALVNSDIMFQQQTYTDEAHALGNVFPFLYHTTDRFWANCLGYSH

>accession|ACD36974.1|Putative Gly m Bd 28K allergen [Glycine
max]

LDSNLIIFIRRGAEAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILLETAFNESRTVVEEIFSKELDGPIMFV
DDSHVPSLWTKFLQLKKDDKEQQLKMMQDQEEDEEEKQTSRSWRKLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRYFPFCQVASRDGPLEFF
GFSTTSARKNKPQFLAGAASLLRRTLMGPELSAAFVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGKLMEEEEP

>accession|ACD36975.1|Putative Gly m Bd 28K allergen [Glycine
max]

LDSNLIIFIRRGAEAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILLETAFNESRTVVEEIFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQLKMMQDQEEDEEEKQTSRSWRKLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRYFPFCQVASRDGPLEFF
GFSTTSARKNKPQFLAGAASLLRRTLMGPELSAAFVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGKLMEEEEP

>accession|ACD36976.1|Putative Gly m Bd 28K allergen [Glycine
max]

LDSNLIIFIRRGAEAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFNIGGGANSHSVLSGFEPAILLETAFNESRTVVEETFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQLKMMQDQEEDEEEKQTSRSWRKLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRYFPFCQVASRDGPLEFF
GFSTTSARKNKPQFLAGAASLLRRTLMGPELSAAFVSEDTLRRAVDAQHAAVILPSAWAAP
PENAGKLMEEEEP

>accession|ACD36978.1|Putative Gly m Bd 28K allergen [Glycine
max]

VLCHGVATTTMAFHDDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLKSHGGRIFYRHMH
IGFISMEPKSLFVFPQYLDNLIIFIRRGAEAKLGFYDDELAERRLKTGDLYMIPSGSAFY
LVNIGEGQRLHVICSIDPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILLETAFNESRTV
VEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQLKMMQDQEEDEEEKQTSRSW
RKLETVFGKVNEKIE NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDI
GVLLVKLSAGSMLAPHVNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRY
FPFCQVASRDGPLEFFGFSTTSARKNKPQFLAGAASLLRRTLMGPELSAAFVSEDTLRRAV
DAQHEAVILPSAWAAPRKMQEAEMEESQMLLKLKLCQ

>accession|ACD50950.1|Putative Der p 20 allergen
[Dermatophagoides pteronyssinus]

MVDPATLSKLEAGFQKLQNAQDCHSLLKYLTRDVFQDLKNKKTDMGATLLDVIQSGVEN

LDSGVGIYAPDAQSYKTFAALFDP IIDDYHKGFKPTDKHPKTFDGNIEFVNVDPKNEYV
LSTRVRCGRSLNGYPFNPMLTEAQYKEMETKVKGQLATFEGELKGTYYPLLGMDKATQQQ
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EYVGRVLKAVKHIEQKIPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AGRYNLQVRGTAGEHTESVGGIYDISNKRRMGLTEYQAVKEMQDGI LELIKMEKSM

>accession|ACD65080.1|Putative serine/threonine protein kinase
[Forcipomyia taiwana]
GTRVDEIKGHPFFREIDWTKELRNQKAPYEPKIKYPTDTSNFDPIDPKLHDSNADDYM
IEEFFGSGKPCHHGFFFEFTFRFFDDDDADCKISLNHGNSGDRNDNNSNDNQSGAIYV

>accession|ACD65081.1|Putative eukaryotic translation initiation
factor [Forcipomyia taiwana]
MKPLMMQGHRAITQIKYNREGDLLFSCAKDHKPNVWFSLNGERLGTFNHGAGAVWCVDV
DWTTTKLITGSGDMSVRLWDVETGTSVACIPCKSSARTVGFSGNQAAYSTDRAMGHIC
ELFVIDSREPSSSLNDGDAILKIPISQSKITAMIWGTLDETIITGHENGQITLWDLRIGR
EINSVNDHMGAINDLQLSKDGTMFVSSSRDTTAKLFDSDSLMCLKTYKTERPVNSAAISP
LLEHVVLGGGQDAMEVTTTSARQKGFDSRFFHLYIEEEFARVKGHFHGPINSLAFHPDGRS
YATGGEDGFVRLQTFDSSYYEYIFD

>accession|CAQ55938.1|Allergen pollen allergen Phl p 4.0102
[Phleum pratense]
YYPTPLAKEDFLRCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSRGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSDGAQLGELYAIHKASTVLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFVKIPKKASE
GAVDIINRWQVVAPQLPDDLMIRVIAQGPTATFEAMYLGTCTLTPLMMSKFPPELGMNAS
HCNEMSWIQSIPFVHLGHRDNI EDDLNRNNTFKPFAEYKSDYVYEPFPKRVEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIQKY

>accession|CAQ55939.1|Allergen pollen allergen Phl p 4.0202
[Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHRTVRIRVRSRGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSDGAQLGELYAIYKASPTLAFAPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRI IAQGPKATFEAMYLGTCKTLTPLMSSKFPPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVVWGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|CAQ55940.1|Allergen pollen allergen Phl p 4.0203
[Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHRSVRIRVRSRGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSDGAQLGELYAIYKASPTLAFAPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPLTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRI IAQGPKATFEAMYLGTCKTLTPLMSSKFPPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVVWGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|CAQ55941.1|Allergen pollen allergen Phl p 4.0204
[Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHRTVRIRVRSGGHDYEGLSYRSLQPETFVAVVDLNKMRVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGKLHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRNNSFKPFAEYKSDYVYQFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVWGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|ACE07186.1|Allergen Art v 3.0201 allergen precursor
[Artemisia vulgaris]
MKMMKFFCAMVVCVVSSSYAEALKCSDVSNKISACLSYLKQGGEVPADCCTGVKGLNDA
AKTTPDRQTACNCLKTTFKSNKDFKSDFAASLPSKCGVNIPIYKISLETDCNKVK

>accession|ACE07187.1|Allergen Art v 3 allergen precursor
[Artemisia vulgaris]
MAMKMMKFFCAMVVCMLSSSYAEALTCSDVSNKITPCLNYLKQGGEVPADCCTGVKGLN
DAAKTPDRQTACNCLKTSFKSNKDLKSDFAASLPSKCGVNIPIYKISLETDCNKVK

>accession|ACE07188.1|Allergen Art v 3.0301 allergen precursor
[Artemisia vulgaris]
MAIKMMKVFCIMVVCVVSTSYAESALTCSDVSTKISPCLSYLKKGGEVPADCCTGVKGL
NDATKTPDRQTACNCLKASFKSNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK

>accession|ACE07189.1|Allergen Art v 3 allergen precursor
[Artemisia vulgaris]
MAIKMMKVFCVMVVCVVSSSYAEALTCSDVSTKISPCLNYLKKGGEVPADCCTGVKGL
NDATKTPDRQTACNCLKASFKSNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK

>accession|P00785.4|Allergen RecName: Full=Actinidain;
Short=Actinidin; AltName: Allergen=Act c 1; Flags: Precursor
[Actinidia chinensis]
MGLPKSFVMSLLFFSTLLILSLAFNAKNLQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLRFTSGSNKTKVSNRYE
PRVQVQLPSYVDWRSAGAVVDIKSQGECGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGE CNVDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVLDAAGDAFKQYSSGIFTGPCGTAVDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGAGTTCGIATMPSYPVKYNNQNHKPKPYSSLINPP
AFSMSKDGVPVDDGQRYSA

>accession|ACE80939.1|Allergen putative allergen Pru du 1.01
[Prunus dulcis x Prunus persica]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKHKIDSIDKENHSYSYTLTEGDALGDNLEKISYETKLVASPSGGSIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHDPAYN

>accession|ACE80955.1|Allergen putative allergen Pru p 2.02
[Prunus dulcis x Prunus persica]
MMKTLVAVLSLSLTLSSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFE LASQASFQ
LDTPVPWWSGRFWARTRCSTDASGKFCVETADCDSDGQLMCNGKTGIPPATLAEFTIAAGGG
QDFYDVS LVDGFNLPM SVTPQGGTGTCKMGS CAANVNLVCPSELQKIGSDGSVVACLSAC

VKFGEPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYSYAFDDNKGLFTCSGGPNYLITFCP

>accession|ACE80956.1|Allergen putative allergen Pru du 2.01A
[Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTTLTGDQKPQLSLTGFELATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMVAAPQGGTGECKASTCPADVNVKCPAQLQVKGS DGSVIAC
KSACLAFNQPYCCTPPNDKPETCPPTDYSKIFKTQCPQAYSAYDDKSSTFTCSASPDY
LITFCP

>accession|ACE80957.1|Allergen putative allergen Pru p 2.01A
[Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTTLTGDQKPQLSLTGFELATG
ISNSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVSLVDGFNLPMVAPQGGTGECKASTCPADINKVCPAELQVKGS DGSVIAC
KSACLALNQPYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSAYDDKSSTFTCSGRPDY
LITFCP

>accession|ACE80958.1|Allergen putative allergen Pru du 2.01B
[Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMVAPQGGTGKCKASTCPANVNAACPAQLQVKGS DGVKVIAC
KSACLAFNQPKYCCTPPNDKPATCPPTDYSRFFKTQCPQAYSAYDDKSSTFTCNRPDY
LITFCP

>accession|ACE80959.1|Allergen putative allergen Pru p 2.01B
[Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVSLVDGFNLPMVAPQGGTGKCKASTCPADINKVCPAPLQVKGS DGSVIAC
KSACLAFNQPKYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSAYDDKSSTFTCSGRPDY
LITFCP

>accession|ACE80972.1|Allergen putative allergen Pru du 4.02
[Prunus dulcis x Prunus persica]
MSWQTYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMIQGEPEGAVIRGKKGPGGVTVKKSTLALLIGIYDEPMPGQCNMIVE
RLGDYLVEQGL

>accession|ACE80974.1|Allergen putative allergen Pru du 2.02
[Prunus dulcis]
MMKTLVVVLSLSLTLSSFGGAHAATISFKNNCPYTVWPASFGNPQLSTTGFELPSQASFP
LDTPAPWGRFWARTGCTDASGKFVCEADCDGQLMCNGKTGIPPATLAEFTIAAGGGQ
DYYDVSLVDGFNL RMSVTPQGGTGTCKTGSCAANVNAVCPSELQKIGSDGSVVACLSACV
KFNQPYCCTPPQETKEKCPPTNYSQIFHDQCPDAYSAYDDNKGLFTCSGGPNYLITFCP
P

>accession|ACE82289.1|Allergen glutathione transferase [Triticum
aestivum]
MAGEKGLVLLDFWVSPFGQVRVIALAEKGLPYEYAEEDLMAGKSDRLLRANPVHKKIPVL
LHDGRPVNESLIILQYLEDAFPDAPALLPSDPYARAQARFWADYVDKQVYDCGSRLWKLK
GEPQAQARAEMLDILKTLDGALGDKPFFGGDKFGFVDAAFAPFTAWFHSYERYGEFSLPE
VAPKIAAWAKRCGERESVAKSLYSPDKVYDFIGLLKKKYGIE

>accession|ACE82290.1|Allergen peroxiredoxin [Triticum aestivum]
MPGLTIGDTPVNLLELDSTHGKIRIHDIYVGNVYVILFVSHPGDFTVCTTELAAMANYAKEF
EKRGVLLGISCDVQSHKEWTKDIEAYKPGSRVTYPIMADPDRSAIKQLNMVDPDEKDG
QGQLPSRTLHIVGPKVVKLSFLYPSCTGRNMDEVVRAVDSLLTAAKHKVATPANWKPGE
CVVIAPGVSDEEAKMFPQGFETADLPSKKGYLRF TKV

>accession|ACE82291.1|Putative profilin [Triticum aestivum]
MSWQTYVDDHLCCEIDGQHLTSAAILGHGDSVWAE SPNFPKFKPEE IAGIVKDFEPEGHL
APTGLFLLGGTKYMIQGEPEGVVIRGKKGTTG GITIKKTGMALILGIYDEPMPGQC NLVVE
RLGDYPVEQGF

>accession|CAQ68366.1|Putative parvalbumin [Sardinops sagax]
MALAGLVKEADITAALEACKAADSFDHKAFFHKVGMMSGKSADELKKAFAIIDQKSGFIE
EELKLF LQNFCKKARALTDGETKKFLKAGDNVGDGKIGIDEFNHLVKH

>accession|ACF19589.1|Allergen subtilisin-like serine protease
[Cochliobolus lunatus]
MKYSLIAALPALAAASPTFSTETIHKQSAPVLSSTSAKEVPNSY MVVFKKHVKDASKHHD
WVQSVH SKNTQERMELRKRSSDL PVSNEVFAGLKHTYELSGLKGYSGHFDDETL EAIRNH
PDVDYIERDSEVRILGGDEPETENNSPWGLARISHRDSLSFGTWNKYLYAADGGEGVDVY
VIDTGTNVHDHVFEGRAKWGKTIPNGDADEDGNHGHTHCSGTVAGK KYGVAKKAHVYAVK
VLRNNGSGTMSDVVKGVFEFAAKSHSEAVSAAKNGKKKGFKGSTANMSLGGGKSTTLDMAV
NAAVDAGLHF AVAAGNDNADSCNYS PAAAENAVTVGASTLLDERAYFSNYGKCNDIFAPG
LNILSTWIGSKHATNTISGTSMA SPH IAGLLAYMLS LQPAKDSAYAVADITPKK LKANLI
AIGTVGALSDVPSNTANVLA WNGGSSNYTDIIEKGGYTVKKAASKEEKESEFRITIPS
LSELEDDFEKAKESAGRKAHVGGKL

>accession|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]
MAGRPGYSEVIFLYVSVAVIARATDNMPV NKDVSKLFPLTLIHINDLHARFEETNMKSN
VCTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGT LWYNLLRWNVTADF IKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDNIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGPYPTLVESKNKRKIPIVQAKS
FGKYVGRLLTYFDEEGEVKNWEGYPV FIDHKVQQDPQILKDLVPWRAKVEAIGSTVVGET
MIELDRDSCRDQECTLGVLVYADGFADQYTNDFTRPF AIIQAGNFRNPIKVGKITNGDIEE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGR TNCLQVSGLRIVIDISKVRSRVK KIE
VMDYTNPKSDK LKPLDKEAEYYIVVPSY LADGKDGFSAMKRATARRTGPLDSDVFKNYVE
KIKKVDNLKLRVIVCKGSKCT

>accession|A5HII1.1|Allergen RecName: Full=Actinidain;
Short=Actinidin; AltName: Full=Allergen Act d 1; AltName:
Allergen=Act d 1; Flags: Precursor [Actinidia deliciosa]
MGLPKSFVMSLLFFSTLLILSLAFNAK NLTQRTNDEVKAMYESWL IKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNR SYKVG LNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLP SYVDWRSAGAVVDIKS QGEGCGCWAFSAIATVEGINKIVTGV LISLSEQELI
DCGRTQNTRG CNGGYITDGFQFI INNGGINTEENYPYTAQDGE CNL DLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSV ALDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGE EGYMRILRN VGGAGTCGIATMPSYPVKYNNQNH PKPYSSLINPP
AFSMSKDG PVGVDDGQRYSA

>accession|ACF53836.1|Allergen Bla g 4 isoallergen 1 [Blattella germanica]
MCITGVILFAVLAVCATDTLANEDCFRHESLVPNLDYKKFIGTWVIAAGTSEALTQYKWC
NDLFFFNALVSKYTDSKGNRTTIRGRTKFEGNKFTIDYDDEGKAFSAPYSVLATDYDN
YAIVEGCPAAANGHVIYVQLRLTLRSFHPEQGDKEALQHYTVHQVNQHKKAI EEDLKHFN
LKYEDLHSTCH

>accession|ACF53837.1|Allergen Bla g 4 isoallergen 2 [Blattella germanica]
MCITGVILFAVLALCATDTLADEDCFRHESLVPNLDYERFRGMWVIVAGTSEALTQYKWC
IDWFSYDDALVSKYTDSKQGNKILIGKIKFEGNKFTIDYDDEGKAFSAPYSVLATDYDNY
AIVEGCPAAANGHVIYVQLRLTWRRFHPKLGDKEMI QHYTLDQVNQHKKAI EEDLKHFNL
KYEDLHSTCH

>accession|ACG58378.1|Allergen Der p 1 allergen precursor [Dermatophagoides pteronyssinus]
MKITLAIASLLALS AVYARPSSIKTFE EYKKA FNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSDSLDEFKNRFLMSAEAF EHLKTQSDLNAETNACNINGNAPAEIDL RQMRTV
TPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEY
IQHNGVVQESYRYVAREQSCRPNARQFGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRITIIQRDNQYQPNYHAVNIVGYSNAQGVQVYWI VRNSWDTNWGDNGYG
YFAANIDLMMIEEYPYVIL

>accession|ACG59280.1|Allergen major allergen beta-lactoglobulin [Bos taurus]
MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENS AEPEQSLVCQCLVRTPEVDDEALEKFKALKALPMHIRLSFNPTQLEEQCHI

>accession|ACG59281.1|Putative major allergen CM16 [Triticum aestivum]
MASESNCVLLLA AVLVSIFA AVAAIGNEDCTP WMSTLITPLPS CRDYVEQQACRIETPGS
PYLAKQQCCGELANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMDFVRILVTP
GYCNLT TVHNTPYCLAMEESQWS

>accession|ACH70931.1|Allergen enolase 3-2 [Salmo salar]
MSITKIHAREILDSRGNPTVEVDLYTAKGRFRAAVPSGASTGVHEALELRDGDKSRYLKG
GTVKAVDHVNKDIAAKLIEKKFSVVDQEKIDHFMLELDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGHKDVILPCPAFNVI NGGSHAGNKLAMQEFMILPIGASNFHE
AMRIGAEVYHNLKKNVIKAKYKDATNVGDEGGFAPNILENNEALELLKTAIEKAGYPDKI
IIGMDVAASEFYKAGKYDLDFKSPDDPARYITGDQLGDLYKSF IKGYPVQSI EDPFDQDD
WAAWTKFTA AVDIQVVGDDLTVTNPKRIQQAVEKKACNLLLKVNQIGSVTESIKACKLA
QSNGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKDYRHPKIN

>accession|ACH85188.1|Putative main allergen 15 kDa oleosin [Sesamum indicum]
MAEHYGOQQQTRAPHPQLQ PRAQRVKAATAV TAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLSWIYRYLTGKHPPGADQLES AKTKL
ASKAREMKDRAEQFSQQPVAGSQTS

>accession|ACH91862.1|Allergen arachin Arah3 isoform [Arachis hypogaea]
MAKLLLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR

RYQSQRPPRRLQEEDQSQQQDSHQKVRHFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFLNLAGNHEQEFLRYQQSRQSRRRSLPYSPYSPQSQPRQEERFS
PRGQHSRRERAGQEEENEGGNIFSGFTPEFLAQAFQVDDRQIVQNLRGENESEEQGAIVT
VRGGLRILSPDRKRGADEEEYDEDEYDEEDRRRGRGSRGSGNGIETICTATVKKNI
GRNRSPDIYNPQAGSLKTANELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVDNNGNRVYDEELQEGHVLVVPQNFVAVAGKSQSDNFYVAFKTDSDRPSIANL
AGENSVIDNLPPEEVVANSYGLPREQARQLKNNNPFKFFVPPSQSPRAVA

>accession|CAP05019.1|Allergen calcium binding protein
[Parietaria judaica]
MADKQIDRAEQERIFKRFDNSNGDKISSSELGEALKALGSVTADEVHRMMAEIDTDGDGA
ISLEEFSSFADANRGLIKDIKIF

>accession|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]
MKLPLLLAIVTTFSSVASTGPFDPPEMLFTFTRCMEDNLEDGPNRLPMLAKWKEWINEPV
DSPATQCFGKCVLVRTGLYDPVAQKFDASVIQEQFKAYPSLGEKSKVEAYANAVQQLPST
NNDCAAVFKAYDPVHKAKHDKT SKNLFHGNKELTKGLYEKLGKDIRQKKQSYFEFCENKYY
PAGSDKRQQLCKIRQYTVLDDALFKEHTDCVMKGIRYITKNNELDAEEVKRDFMQVNKDT
KALEKVLNDCKSKEPSNAGEKSWHYKCLVESSVKDDFKEAFDYREVRSQIYAFNLPKKQ
VYSKPAVQSQVMEIDGKQCPQ

>accession|CAQ57979.1|Putative profilin [Triticum aestivum]
MSWKAYVDDHLCCEIDGQHLTSAAILGHGDSVWAQSPNFPQFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPGVVIRGKKGTTGGITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYLLIDQGY

>accession|ACI25605.1|Putative venom acid phosphatase [Apis
mellifera]
MSVIAILAMVVGVAELKQINVI FRHGDRIPDEKNEMYPKDPYLYYDFYPLERGELTNSG
KMREYQLGQFLRERYGDFLGDYTESVSALSSFYDRTKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRRYEDNIFLPEDCLLFTIEFDRVLES PRGKYEF SKYDKLKKKLEEWG
KNITTPWDYIIYHTLVAEQSYGLTLP SWTNNIFPRGELFDATVFTYNITNSTPLLKLY
GGPLLRIFTKHM LDVVSQTQKKRKIYLFSGHESNIAAVLHALQLYYPHVPEYSSSIIME
LHNIEGTHYVKIVYYL GIPSEAGELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFA
DESANNLSIEELDFVKLNLIRIAGTENK

>accession|CAR82265.1|Allergen D-type LMW glutenin subunit
[Triticum aestivum]
MARQLNPSNKELOSPQQSFSHQQFPFPQQPYPPQPPYPSQQPYPSQQPFPTPQPQFPQQSQ
QPFTQPQQPTPLQPQQFPFPQQPQQPFPQPQQPFPWQPQQPFPQTQQSFPLQPQQPFP
QQPQQPFPQPQLQFPQQPEQIIPQQPQQPFLLESQQPFPQQPQQPFPQPQQQLIPMQPQQP
FPQQSQSQSPFPQPQLFPELQQP IPQQPQQPFPPLQPQQPFPQQSQSQPFPQQPQQPCPL
QPQQPFPQQPQQPFPQQPQQPFPPLQPQQPFPPLRPQQPFSQQPQQSQSQSFQPQPQQPQQP
SILQPQQPFPQLQPQQLSQQLQEQTISQQPQQPFPQQPHQPQQPYPQQQPYGSSLTSIDGQ

>accession|CAR82266.1|Allergen D-type LMW glutenin subunit
[Triticum aestivum]
MGRLLSPRGKELHTPQE QFPQQQFPQQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQQFPQQQFPQQQIAQQPQQLPQQQFPPI
PYPPQQSQEPSYQQYPPQQQPSGSDVISICGL

>accession|CAR82267.1|Allergen D-type LMW glutenin subunit
[Triticum aestivum]

MGRLLSPRGKELHTPQEQFPQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQFLOQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQEFPPQQQFPQQQIAQQPQQLPQQQQIP
QQPQLFPQQQFPQQQSPQQQFPQQQFPQQQLPQQQFPQPQQIPQQQQIPQQPQQFPQ
QQFPQQQFPQQQFPQQQFPQQQFHQQQLPQQQPSGSDVISICGL

>accession|CAP17694.1|Putative parvalbumin [Lepidorhombus
whiffiagonis]

MTFAGLDAAEIKAAALDGC AAADSFDYKKFFGACGLAKKSAEEVKAAFNKIDQDESGFIEE
DELKLF LQNFSASARALTDKETANFLKAGDVGDKIGIEEFTDLVRSK

>accession|ACI32128.1|Allergen tropomyosin [Dermatophagoides
pteronysinus]

MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKAPQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHR SITDEERMEGLENQLKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDTFAELTGY

>accession|ACI41244.1|Putative 2S albumin [Sesamum indicum]

MAKKLALAAVLLVAMVALASATTYTTT VTTTAAIDDEANQQSQCRQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQSLRDCCQQLGNVDERCRCEAIRQAVRQQQEGGY
QEGQSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>accession|ACI47547.1|Putative nonspecific lipid transfer protein
[Juglans regia]

MTGSLVLKLSGMVLLCMVVAAPVAEAVITCGQVASSVGSICGYLRGTVPPTVPPSCNGVK
SLNKAAATTADRQAACECLKKTSGSIPGLNPLAAGLPGKCGVSVPYKISTSTNCKAVK

>accession|ACI68103.1|Allergen Parvalbumin beta 1 [Salmo salar]

MACAHLCKEADIKTALEACKAADTFNFKTFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLF LQNFCPKARELTD AETKAF LKAGDADGDMIGIDEFAVLVKQ

>accession|ACJ04729.1|Allergen ovomucoid [Gallus gallus]

MAMAGVFLVLSFVLCGFLPDAVFGAEVDCSRFPNATDMEGKDVLCNKDLRPICGTDGVT
YTNDCLLCAYSVEFGT NISKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDKRHDGGCRKELAAVSVDCSEYPKPDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLTLSHFGKC

>accession|ACJ23861.1|Putative Cas s 1 pollen allergen [Castanea
sativa]

MGVFTHE SQETSVIPPARLFKAFVLDSNLIPKVL PQA I KSTE I IEGNGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFSVIEGDVLT DIENVSTETK FVASPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>accession|ACJ23862.1|Putative Cas s 1 pollen allergen [Castanea
sativa]

MGVFTHE SQETSVIPPARLFKAFVLDSNLIPKVL PQA I KSTE I IEGDGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFSVIEGDVLT DIENVSTETK FVASPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>accession|ACJ23863.1|Putative Cas s 1 pollen allergen [Castanea

sativa]

MGVFTTHESQETSVIPPARLFKAFVLDSDNLIPKVLQPQAIKSTEIEGNGGPGTIKKITFG
EASKYKYSRHRIDALDPENCTYSFSVIEGDVLTDIENVSTETKVFVSPDGGTIMKSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>accession|ACJ23864.1|Allergen Fag s 1 pollen allergen [Fagus
sylvatica]

MGVFTYESETTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIEGSGGPGTIKKITFG
EGSQFNKYVXHRIDEIDNANFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAYH

>accession|ACJ23865.1|Allergen Fag s 1 pollen allergen [Fagus
sylvatica]

MGVFTYESETTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIEGSGGPGTIKKITFG
EGSQFNMYKXHRIDEIDNANFTYAYTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAYH

>accession|ACJ23866.1|Allergen Fag s 1 pollen allergen [Fagus
sylvatica]

MGVFTYESETTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIEGSGGPGTIKKITFG
EGSQFNKYVXHRIDEIDNTNFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAYH

>accession|ACJ37389.1|Allergen Bla g 4 allergen [Blattella
germanica]

VLALCATDTLANEDCFRHESLVPLNDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDAL
VSKYTDSQGNRTTIRGRTKFEGNKFTIDYNDKGFSAFAPYSVLATDYENYAIVEGCPAA
ANGHVIYVQLRMTLRRFHPKLGDKEMLQHYTLTDQVNQNKKAIEEDLKHFNLYEDLHSTC
H

>accession|ACJ37391.1|Putative Per a 4 allergen variant 1
[Periplaneta americana]

AGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYDKYTLDENGVIQVTSVA
YTNSIRGFITSTGTVPWTEDTFDIAYGDEETWSSTYFVMVGTDYQTYISIVAGCLDNDYSR
HLYWIASHETSFDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQYKS

>accession|NP_001133181.1|Allergen fructose-bisphosphate aldolase
A [Salmo salar]

MPHAFPFLLTPDQKKELSDIALKIVAKGKILAADESTGSAKRFQSINTENTEENRRLYR
QLLFTADDRAGPCIGGVIFFHETLYQKTDAGKTFPEHVKSARGWVVGIVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKGDCDFAKWRCVLKITSTTPSRLAIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAAMYKALSDHHVYLEGTLKPNMVTAGHSC
SHKYTHQEIAMATVTALRRTVPPAVPGVTFVLSGGQSEEEASINLNMVNCPLHRPWALTF
SYGRALQASALKAWGGKPGNGKAAQEEFIKRALANSLACQGYVASGDSAAAGDSLIVAN
HAY

>accession|3EBW_A|Putative Chain A, Crystal Structure Of Major
Allergens, Per A 4 From Cockroaches [Periplaneta americana]

DDSCQIGTSFTGLDXTKYVGTWYELFRTPNSDEEDFTNCEYDKYTLDENGVIQVTSVAYT
NSIRGFITSTGTVPWTEDTFDIAYGDEETWSSTYFXVGTDYQTYISIVAGCLDNDYSRHL
YWIASHETSFDATKAKVNEVLAPYNLSLDDXEPVDQSYCVQY

>accession|CAT99611.1|Putative thaumatin-like protein [Malus x
domestica]

ASRSVDAPSPWSGRLWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA

ANGGQDYDVS LVDGFNLPMSVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCP

>accession|CAT99612.1|Putative thaumatin-like protein [Malus x domestica]

ASRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDVS LVDGFNLPYVAPQGGTGECKPSSCPANVNMACPAQLQVKAADGSVISC
KSACLAFGDSKYCCTPPNDTPETCPPTEYSEIFEKQCP

>accession|CAT99617.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQEGGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE
RLGDYLIDQGV

>accession|CAT99618.1|Allergen profilin [Malus x domestica]
AQSATFPQLKPEEVTGVMNEFNEPGSLAPTGLYFGGTKYMWVIPGEPGVVIRGKKGPGGV
VKKSTMALLIGIYDEPM

>accession|CAT99619.1|Allergen profilin [Malus x domestica]
GNSLTAAAILGQDGSVWAQSATFPAPFKPEEIAAILKDFDQPGTLAPTGLFLGGTKYMWI
QGEPAVIRGKKGSGGITIKKTSQALLIGIYDEPLTPGQCNIIVVERLGDYLIQGL

>accession|ACK76291.1|Putative Der f 3 allergen
[Dermatophagoides farinae]

MMILTIVVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
RILTAAHCNVNGQSAKKLSIRYNTLKHASGGEKIQVAEIIYQHENDSMTIDNDVALIKLKT
PMTLDQTNAPVPLPPQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQDC
QLYSKAGADVSENMICGGDVANGGVDSQCQDSSGGPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>accession|ACK76292.1|Putative Der f 3 allergen
[Dermatophagoides farinae]

MMILTIVVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
WILTAAHCNVNGQSAKKLSIRYNTLKHASGGEKIQVAEIIYQHENDSMTIDSDVALIKLKT
PMTLDQTNAPVPLPPQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQDC
QLYSKAGADVSENMICGGDVANGGVDSQCQDSSGGPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>accession|ACK76296.1|Putative Der f 6 allergen
[Dermatophagoides farinae]

MIKIFLVITILIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIACVVGQDADLAE
APFQISLLKDY LIMKSHMCGGSLISESTVVTAACHCTYQKASSLSVRYGTNQR TSSSYGD
LKVKTI IQHESYDPDTIQNDISLLILSKPVVSTNVRMIEIETDDIVDGDKVTIYGWGLT
DGNGKDL PDKLQKGSMTIVGNDR CNKWSINAIHPGMICALDKTQSGCNGDSSGGLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>accession|ACK76297.1|Putative Der f 6 allergen
[Dermatophagoides farinae]

MIKIFLVITILIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIAGVVGQDADLAE
APFQISLLKDY LIMKSHMCGGSLISESTVVTAACHCTYQKASSLSVRYGTNQR TSSSYGD
LKVKTI IQHESYDPDTIQNDISLLILSKPVVSTNVQMI E IETDDIVDGDKVTIYGWGLT
DGNGKDL PDKLQKGSMTIVGNDR CNKWSIDAIHPGMICALDKTQSGCNGDSSGGLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>accession|ACK76299.1|Allergen Der f 7 allergen

[Dermatophagoides farinae]

MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVDPHADKFER
HVGILDFKGE LAMRNI EARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHP'TTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLT AIFQD TVRKEMTKV LAPAFKRELEKN

>accession|BAH09387.1|Allergen allergen [Arthroderma
vanbreuseghemii]

MAAAKWL IASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDDKDRPSG
WNLLN LKNGDISVLT TDSVSEITWLG DGTKIVYVNGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLK LAKSGDKIN FVGYGQSTTKGDLYNEAAAKEAVSSARIYDSL FVRHWDT
YVGTQFNAV FSGALTKSGDKYSFDGK LKLNLVHPVKYAESPYPPFGGSGDYDLSSDGKTVA
FMSKAP ELPKANL TTTYIFV VPHDGSRVAEP INKRNGP RTPQGIEGASSSPV FSPDGKRI
AYLQMATKNYESDRRVIYIAEVGSNKPVQRIASNWDRSPEVVKWSSDGRTLYVTAEDHAT
GKLFTLPADARDSHKPAVVKHDG SVSSFYFVGSSKSVLISGNSLWSNALFQVATPGRPNR
KLFYANEHDP ELKGLGPN DIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIQGHDLGRKFKALVSHDGT FVGSSKIGTDELFFI
EHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHND FDFRLSVAEGVGLFNVLQEK
IPSRFLNFPDETHWVTKPENSLVWHQQV LGWINKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>accession|BAH10157.1|Putative tropomyosin [Venerupis
philippinarum]

MDAIIKKMQAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTL LQKKYTNLENEFDQV
NEKYNEGVNKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTQVKLDEATSKLEDATKTA
DESERGRKVLERSRIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNLQKEVDRL EDELLAEKEKYKAISDEL DQTF AELAGM

>accession|BAH10148.1|Putative tropomyosin [Haliotis discus
discus]

MDAIIKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQK KCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGRKVLERSLADDERIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRL EDELLAEKEKYKAISDEL DQTF AELAGY

>accession|BAH10149.1|Putative tropomyosin [Batillus cornutus]

MDAIIKKMLAMKMEKENALDRAEQLEQKLRDTEEQKAKIEEDLNNLQK KCANLENDFDNV
NEQLQDALS KLENSEKRVTEMEQEVSGTTRKITLLEEDLERNEEGLQTATERLEEASKAA
NESERGLADDERIDQLEAQLKEAKYIAEDAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRL EDELLAEKEKYKAISDEL DQTF AELAGY

>accession|BAH10150.1|Putative tropomyosin [Neptunea
polycostata]

MDLIKKMLSMKMDKENALDRADVMEQKFRDAEDQKSKLEDDLNNLQK KYSQLENEFDREV
NEGLLDANAKLETQDKRVNEMEQEISGLNRRIQLEEDLERSEERLQTATEKLEEATKAA
DESERARKVLESKNQTAESADSLEAQLKESKYIAEDAERKYDEAARKLAITEIDLRAE
TRLEAAEAKCYELDEQLHVGNNIKTL SIQNDQASQREDSYEETIRDLTQRLKDAENRAQ
EAERTVTKLQKEVDRL EDELLAEKERYKNISDEL DQTF AELAGY

>accession|BAH10151.1|Putative tropomyosin [Scapharca
broughtonii]

MDSIKKKMIAMKMEKENALDRSEQLEQKLRDTEEQKAKVEEELGAYQKKFSILENDFDTV
NTKWEDASVKLEEAEEKLTESEQEIASLTRKTTLLEDDIAKNEEKLMSATQKLEEASHAA
DESERGRKVLERSRFADDERIDALEAQLKEAKYIAEDADRKYDEAARKLAITEVDLERAE
ARLEAAEAKIIIELEEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTANLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKERYKAISDELDTFAELAGY

>accession|BAH10152.1|Putative tropomyosin [Crassostrea gigas]
MDSIKKKMIAMKMEKENAQDRAEQLEQQLRDTEEQKAKIEEDLTSLQKKHSNLENEFDTV
NEKYQECQTKLEEAETASEAEQEIQSLNRRIQLLEEDMERSEERLQTATEKLEEASKAA
DESERNRKVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAE
ARLEAAEAKVYEELEEQLSVVANNIKTLQVQNDQASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKERYKAISDELDTFAELAGY

>accession|BAH10153.1|Putative tropomyosin [Fulvia mutica]
MEAIKKKMOSMKNEKENAIDKAEQLEIKLKDTEDSKAKIEEDLTSLQKKYTNLENEFDQV
NEKHADSVAKLEAAEKRLTETEDEIKGYTRKIQLLEDDLERTQTKLDEATGKLEEATKSA
DESERGRKVLERSLADDDRIDGLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKIVELTEELSVVGNLKLQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVIKLQKEVDRLLEDELLQEKYKQISDELDTFAELAGM

>accession|BAH10154.1|Putative tropomyosin [Pseudocardium
sachalinensis]
MDSIKKKMQAMKIEKENALDKSEQLDQKLDVVEETKAKVEEDLSSLQKKYTNLENEFDKV
NEQYNESVVKLEASEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLDEALLKLEDATKTA
DESERGRKVLERSIADDDRIDGLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVNLQKEVDRLLEDELLAEKEKYKQISDELDTFAELAGM

>accession|BAH10155.1|Putative tropomyosin [Tresus keenae]
MDSIKKKMQAMKIEKENALDKAEQLDQKLDKDTEDSKAKIEEDLSSLQKKYTNLENEFDQV
NEKYNDGVVKLESSEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLEEATLKLEDATKTA
DESERGRKVLERSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVNLQKEVDRLLEDELLAEKEKYKQISDELDTFAELAGM

>accession|BAH10156.1|Putative tropomyosin [Solen strictus]
MDSIKKKMQAMKLEKENALDKSEQLEQKLEKETEDSKARAEEDLSSLQKKFTNLENEFDKV
NEQYQEGVIKLEASEKRVTECEDEIKGFTRRIQLLEDDLERTQAKLDEALLKLEDASKTA
DESERGRKVLERSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELQVVGNNKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVNLQKEVDRLLEDELLAEKEKYKQISDELDTFAELAGM

>accession|ACL36923.1|Putative troponin C [Tyrophagus
putrescentiae]
MSVEELSKEQVQMLRKAFDMFDRDKGYIHTNMVSTILRTLQGTFEENDLQQLIIIEIDAD
GSGELEFDEFLLTLTARFLVEEDTEAMQEELREAFRMYDKEGNGYIPTSALREILRALDDK
LTEDELEDEMIAEIDTDGSGTVDFDEFMEMMTGD

>accession|ACM24358.1|Putative arginine kinase [Blattella
germanica]
MVDAAVLEKLEAGFAKLAASDSKSLKKYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYPFNPCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRFWPTGRGIYHNDKTFVWCNEEDHLRIISMQMGDLG
QVYRRLVTAVNIDIEKRIPFSDHDDLGLFTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV

AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>accession|CAR48256.1|Putative beta-parvalbumin [Xiphias gladius]
MAFAGVLSADVAAALEACKDAGTFDYKFFKSCGLAAKSTDDVKKAFAIIDQDKSGFIE
EDELKFLQNFKAAARPLTDAETEAFKAGDSDGDGKIGAEFFAALVTA

>accession|3F5V_B|Allergen Chain B, C2 Crystal Form Of Mite Allergen Der P 1 [Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDL RQMRTVTP I R M Q G G C S X W A F S G V A A T E S A Y L A Y R Q Q S L D L A E Q
E L V D C A S Q H G C H G D T I P R G I E Y I Q H N G V V Q E S Y Y R Y V A R E Q S C R R P N A Q R F G I S N Y C Q I Y
P P N A N K I R E A L A Q T H S A I A V I I G I K D L D A F R H Y D G R T I I Q R D N G Y Q P N Y H A V N I V G Y S N A
Q G V D Y W I V R N S W D T N W G D N G Y G Y F A A N I D L M M I E E Y P Y V V I L

>accession|ACM89179.1|Allergen sarcoplasmic calcium-binding protein [Litopenaeus vannamei]
MAYSWDNRVKYVVRMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGGKYGDFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSFAFAEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>accession|ACN32322.1|Putative tropomyosin [Ascaris lumbricoides]
MDAIIKKMQAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSVANSNLEEKQVQEAEEVAALNRRMTLLEEEELERAEEERLKLATEKLEEATHTA
DESERVKVMENRSFQDEERANTVESQLKEAQM LAEEADRKYDEVARKLAMVEADLERAE
ERA E A G E N K I V E L E E E L R V V G N N L K S L E V S E E K A L Q R E D S Y E E Q I R T V S A R L K E A E T R A E
FAERSVQKLQKEVDRLLEDELVHEKERYKSI SEELDQTFQELSGYRS

>accession|3C3V_A|Allergen Chain A, Crystal Structure Of Peanut Major Allergen Ara H 3 [Arachis hypogaea]
ISFRQQPEENACQFQRLNAQRPNRIESEGGYIETWNPNNQEFECAGVALSRLVLRNAL
RRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGRRYQSQRPPRRLQEEDQSQQQ
QDSHQKVHRFNEGD LIAVPTGVAFWLYNDHDTDVAVSLTDTNNNDNQLDQFPRRFNLAG
NHEQEFRLRYQQQSRQSRRLSPYSPYSPQSQRQEEREFSPRGQHSRRERAGQEEHEGG
NIFSGFTPEFLAQAFQVDDRQIVQNLRGENESEEQGAIIVTVRGGLRILSPDRKRGAD EEE
EYDEDEY EYDEEDRRRGRGSRGSGNGI EETICTATVKKNI GRNRSPDIYNPQAGSLKTAN
ELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYALRGRAHVQVDSNGNRVYDEE
LQEGHVLVVPQNFVAVAGKSQSDNFEYVAFKTD SRPSIANLAGENSVIDNLPEEVVANSYG
LPREQARQLKNNNPFKFFVPPSQQSPRAVA

>accession|ACN62248.1|Allergen Ara h 2.01 allergen [Arachis hypogaea]
MLTILVALALFLLAHASARQQWELQGD RRCSQLERANLRPCEQHLMQKIQRDEDSYER
DPYSPSQDPYSPSPYDRRGAGSSQH QERCCELNEFENNQRMCCEALQQIMENQSDRLQG
RQQEQQFKRELRLNPQQCGLRAPQRCDLDVESGGRDRY

>accession|ACN87223.1|Putative tropomyosin [Procambarus clarkii]
MDAIIKKMQATKLEKDNAMDRADTLEQQNKEANIRA EKA EEEVHNLQKRMQHLENDLDQV
QESLLKANTQLEEKDKAISNAEGEVAALNRRIQLL EEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTFSELTGY

>accession|ACO34813.1|Putative Sal k 1 pollen allergen [Salsola

kali]

QLIPPNPAAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFQTVDSA
TLIVESDYFVGANLIVSNSAPRPDGKRKGAQASALRISGDRAAFYNCKFTGFQDTVCDK
GNHLFKDCYIEGTVDFIFGEARSLYLNTELVVPGDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEARVVFVSYCNLSDAVKPEGWSDNNKPAAQKTIFFGYKNTGPG
AAADKRVPYTKQLTEADAKTFTSLEYIEAAKWLPPPKV

>accession|ACO34814.1|Allergen Sal k 3 pollen allergen [Salsola
kali]

MASHVVGYPMPGPKRELKFALESFWDGKSSAEDLKKVAADLRSSIWQMADAGIKYIPSN
TFAYYDQVLDTTAMLGAVPARYGFNGGIEGFDLYFSMARGNASLPAMEMTKWFDTNHYHI
VPELGPEVKFAYSSHKAVDEYKEAKALGVDTVPVLPVLPVSYLLLSKAAKGVEKSFLLSL
LPKILPVYKEVIAELKAAGASTIQFDEPTLVMDLESHQLKAFTDAYADLESTLSGLNLV
ETYFADLTPEAYKTLVSLNGVTAFGFDLVRGKTLDLKSFGFSGKYLFAGVVDGRNIWA
NDLAASLTLQSLIESIVGKDKLVVSTSCSLLHTAVDLVNETKLDDEIKSWLAFAAQKVL
VNALAKALAGQKDEAFFSANAAALASRKSSPRVTNEAVQKAAAGLKGSDHRRATTVSARL
DAQQKLNLPVLPPTTIGSFPQTVELRRVRREYKAKKISEEEYVKAIKEEISKVVKLQEE
LDIDVLVHGEPERNMVEYFGEQLSGFAFTVNGWVQSYGSRVCKPPIIYGDVSRPKAMTV
FWSSLAQSMSTRPMKGMTGPVITLNSFVRNDQPRHETCYQIALAIEDEAEDLEKAGIN
VIQIDEAALREGLPLRKS GHGFYQLQWAVHSFRITNVGIQDTTQIHTHMCYSNFNDI IHSI
IDMDADVITIENSRSDEKLLSVFREGVKY GAGIGPGVYDIHSPRIPPTTEELADRIRKMLA
VLESNVLWVNPDCGLKTRKYNEVNPALSNMVYAAKPI

>accession|CAX32963.1|Allergen parvalbumin [Gallus gallus]
MAMTDVLSAEDIKKA V GAFSAAESFNKFFEMVGLKKKSPEDVKKVFHILDKDRSGFIE
EELKFVVLKGFTPDGRDLSDKETKALLAAGDKDGDGKIGADEFATMVAES

>accession|ACO56333.1|Allergen 2S albumin [Corylus avellana]
MARLATLAALFAALLLVAAHAAFRTTITTVDVDEDIVNQQRGEGSCREQAQRQNLNQC
QRYMRQQSQYGSYDGSNQQQQEQLEQCCQQLRQMDERCRCEGLRQAVMQQGGEMRGEEMR
EVMETARDLPNQCRSLSPQRCEIRSARF

>accession|ACP43298.1|Allergen Ama r 2 pollen allergen
[Amaranthus retroflexus]
MSWQAYVDDHLMCEIEGTTNHLTGAAILGLDGSVWAQSADFPQFKPDEIAAIVEDFDEPG
TLAPTGLHLGGTKYMIQGEPEGAVIRGKKGAGGICVKKTGQALVMGIYDEPVTPGQCNI
VERLDGYLIEQGY

>accession|BAH59276.1|Putative cochineal major allergen
[Protortonia cacti]
MPVRMLFSILISLILVSVVVGNEHYPKVSPAQFSAAFHGYELPQKECRADEVDSNEVKFY
LYTRQNLHKYELHTGYNCNSYESLRNSTYNVRKETKFLIHAWTQSPKDINDIIYIYLYA
ENVNVIMVDWSMYSQTCNYNSTSYVVI PKVAKALS DLMKLLTG YGAVPQKNFHVIGFLHG
AHIAGIAGKYI SPLRISRISGLDPVGYNIDGTALPVLQNGDADFIDVIYTSIEYYGTQRQ
IGDLSFYPRGTHPQKQCPPDPNEWVCSALASIKYWRESITSPTAFSAIRCDNYVQYHES
RCPGPNTTMGEYASRNAPFGKYYLNTNPEPPYSQS

>accession|ACR43473.1|Putative tropomyosin [Crangon crangon]
MDAIKKKMAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV
QEALLKANAHLEEKDALSNAEAGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDEERMDALENLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|ACR43474.1|Putative arginine kinase [Crangon crangon]
MVDAEVLEKLEAGYKLEAATDCKSLLKKYLTKEVFDELKTKKTALGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQSDKHPGKDFGDLEKFNVDPEGTFFV
VSTRVRCGRSMEGYPFNPCLTEAQYKEMESKVSSTLSSLEGELKGTYYPLTGMSKDVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFVWVNEEDHLRIISMQMGGDLG
QVFRRLTSAVNEIEKRIPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANRDKLESV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGIPEIKMEKEM

>accession|ACR43475.1|Putative sarcoplasmic calcium-binding
protein [Crangon crangon]
MAYTWDNRVKYVVRMYDIDNNGFLDKNDFECLAVKNTLIECRGEWSAEKYAANQKIMSN
LWNEIAELADFNKDGEVTVVEEFKQAVQKHCNGKPFGDFPSAFKTFIANQFKTIDVNGDGL
VGVDEYRLDCISRSASFSCIKEIDDAYNLLCTEEDKKAGGINIARYQELYAQFISNPDEKC
NAVYLFGLKEVV

>accession|ACR43476.1|Putative triosephosphate isomerase
[Crangon crangon]
MSGSRKFFVGGNWKMNMGDKAAIDGIVDFMKKGPLNPNTTEVVVVGCPQCYLSYTREKLPAEI
GVAAQNCYKVAKGAFTGEISPAMVKDCGCEWVILGHSERRNVFNEPDQLISEKVGHALEA
GLKVIPIGKELDERESNRTEEVVFAQMKAIVPNISDWSRVVIAYEPVWAIAGTGKTASPE
QAQDVHAKLRQWLTVNSAEVAESCRIIYGGSVSPSNCAELAKMGDIDGFLVGGASLKP
FVTIINARG

>accession|ACR43477.1|Putative myosin light chain [Crangon
crangon]
MAADLSARDVERVKFAFSIYDFEGNGQIDAFYIGDCLRALNLPNPTLALIAKLGTEKRKE
KMIKLDLDFMPLFAQVKKDKDAGSYEDFIEVLKLYDKAENGTMMYAELEHILLSLGERLDK
AELEPILRECCPPEDEGLIPFEPFVKKLTQLL

>accession|ACR43478.1|Putative troponin C [Crangon crangon]
MDSLEPDQIDALKKAFDSFDTENQGFITADTVATILRMMGVKISDKNLAEVIAETDEDGS
GQLEFEFVLDLSSKFLIEEDEEALKAELREAFRIYDKEGQGFITTDVLKEILTEIDNKLT
PEDLDGIIIEVDEDEDGSGTLDFDEFMEMMSG

>accession|ACR77509.1|Allergen Che a 2 pollen allergen
[Chenopodium album]
MSWQTYVDDHLMFPIEETGNHLTAAAIIVGLDGSVWAQSSTFPQLKQEEVKAICNEFDVFN
TLAPTGLFLGGEKYMVIQGEPGA VIRGKKGPGVCIKKTNQALVFGIYNEPVTGQCNMV
VEKLG DYLV EQGM

>accession|ACS14052.1|Allergen tropomyosin [Periplaneta
americana]
MDAIIKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAESEARSLOKKTQOIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAD
DESERARKILESGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLLEDELVHEKEKYKFCDDLDMTFTELVGY

>accession|ACS34771.1|Allergen Sal k 4 pollen allergen [Salsola
kali]
MSWQTYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMIQGEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTGQCNMI
VERLGDYLV EQGM

>accession|CAQ72968.1|Putative parvalbumin [Sebastes marinus]

MALAASLNAADITAALAACSGVDTFKHKDFFGKVGLSAKSADDIKNAFKVIDQDKSGFIE
EEELKFLFLQNFSAATARALTEAETTAFLKAGDSDGDMIGMDEFAAMVKG

>accession|CAQ72969.1|Putative parvalbumin [Sebastes marinus]
MAFASVGLKDADIAAALDGCKDAGKFNHKTFFKTCGLSGKSSDEVKKAFAIIDQDISGFI
EEEEELKFLFLQTFKAGARALSDAETKEFLKAGDSDGDKIGADEWAAMVKQ

>accession|CAQ72970.1|Putative parvalbumin [Clupea harengus]
MALASLLKGADIDAALKACEAKDSFKHKDFFAKIGLATKSAADLKKAFEIIDQDKSGFIE
EEELKFLFLQNFKAGARALDAETKAFLKAGDADGDMIGVDEFAMVIKP

>accession|CAQ72971.1|Putative parvalbumin [Clupea harengus]
MAFAGLLSDADIAAALGACTAADTFDHKSFFKKVGLSGKSADDVKKPFYIIDQDKSGFIE
EEELKFLFLQNFKAGARALSDKETKAFLAAGDADGDMIGVDEFAMVKAR

>accession|CAQ72972.1|Putative parvalbumin [Clupea harengus]
MAFAAFLKEADITAALGACKGADSFHDHKAFFAKVGLKKGKSGDELKKAFEIIDQDKSGFIE
EEELKFLFLQNFCKGARALTDGETKKFLKAGDSDNDGKIGIDEFAALINH

>accession|CAZ76054.1|Putative glyceraldehyde-3-phosphate
dehydrogenase [Triticum aestivum]
MGKIKIGINGFGRIGRLVARVALQSDDELVAVNDPFITTEYMTYMFKYDTPVHGHWKHSD
IKLKDDKTLFLFGEKPVTVFGVRNPEEIPWGEAGADYVVESTGVF'TDKDKAAHLKGGAKK
VVISAPSKDAPMFVVGVEDKYTSDVNIVSNASCTTNCLAPLAKIINDNFGIIEGLMTTV
HAITATQKTVDGPPSSKDWRRGGRAASFNIIPSSTGAAKAVGKVLPELNGKLTGMSFRVPTV
DVSVVDLTVRTEKAASYDDIKKAIKAASEGKLGIMGYVEEDLVSTDFVGDSSRSIFDAK
AGIALNDHFVKLVSWYDNEWGYSNRVVDLIRHMAKTQ

>accession|CAZ76052.1|Allergen alpha amylase inhibitor CM1
[Triticum aestivum]
TGPYCYAGMGLPINPLEGCREYVAQQTGCGISISGSAVSTEPGNTPRDRCCKELYDASQHC
RCEAVRYFIGRRSDPNSSVLKDLPGCPREPQRDFAKVLVTPGHCMVMTVHNPYCLGLDI

>accession|ACT37324.1|Putative SchS21 protein, partial
[Stachybotrys chartarum]
ASVTFWTLDNVDRTLVTFTGNPGSAAIETITVGPARENTTVEFPGSWVGNWYAYPTDAEDVP
GMLGEVQFGGWNGLTIFYDVSIVNPTDHDNVKQMWPAESRKPMMSGCEVFPDWAYWLPDD
IQTKVTHEVDLWTTLGAGSTGLTF

>accession|CAQ68249.1|Allergen Der p 2 allergen precursor
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDPGIDPNACHYMKCPLVKGQQYDIKYTWNVVKIAPKSENVVTVKVMGDNGVLACA
IATHAKIRD

>accession|CAQ68250.1|Allergen Der p 1 allergen precursor
[Dermatophagoides pteronyssinus]
RPSSIKTFEYKKAFFNKSATFEDEEAARKNFLESVKYVQSNNGAINHLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLQMRVTVP'IRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCGNDTIPRGIEYIQHNGVVQESYYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRITIIQ
RDNGYQPNYHAVNIVGYSNAQGVYDVIWRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>accession|ACV04796.1|Allergen stalk non-specific lipid-transfer

protein 1 [Apium graveolens]
MGVSKVAIAVAVMLMVVINHPAVVEGLTCGQVTGKLGGLGYLKGGGYPSACGGVKG
LNSLAKTPADRKQACACLKTLAGSVKGINYGAASALPGKCGIRIPYIPSPSTDCSRVN

>accession|BAD74060.2|Allergen group 2 allergen
[Dermatophagoides farinae]
MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDA
NQNTKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHGKIRD

>accession|ACV04860.1|Putative glutathione S-transferase Blo t 8
isoform [Blomia tropicalis]
MAPLKIGYWDVRGFAEPIRMLLKHLNIEFEETRYGFGNDSEESLPNRDEWLAEKFTLGLE
FPNLPYLFDFGDFKMTESVAILKRLARANGMIATTEPALSYSSEMIEAMIIDIRNRLINVVY
AENSGTPEEFEQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
VFKVSTPIFEKFAKVS DYMKRFEELPSLKEYIARDEHRSASCLSPFARIGHRWAKE

>accession|3EHK_A|Putative Chain A, Crystal Structure Of Pru Du
Amandin, An Allergenic Protein From Prunus Dulcis [Prunus dulcis]
AROSQLSPQNQCQLNQLQAREPDNRIQAEAGQIETWNFNQGDQFCAGVAASRITIQRNGL
HLPSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESQQSSQQGRQQEQEQERQQQQQGEQG
RQQGQQEQQERQGRQQGRQQQEEGRQQEQQQGQQGRPQQQQQFRQLDRHQKTRRIREGD
VVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNP RKFYLAGNPENEFNQGQSQP
RQQGEQGRPGHQHQQPFGRPRQQEQQNGNMFVSGFNTQLLAQALNVNEETARNLQGQNDN
RNQIIQVRGNLDFVQPPRGRQEREHEERQQEQQLQQRQQQGEQLMANGLEETFCSLRLKE
NIGNPERADIFSPRAGRISTLN SHNLPILRFLRLSAERGGFFYRNGIYSPHWNVNAHSVY
VIRGNARVQVNVNENGDAILDQEVQQQLFIVPQNHGVIQQAGNQGFYFAFKTEENAFIN
TLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIALSSSQQRRAVV

>accession|ACY01951.1|Putative putative Cup a 4 allergen
[Cupressus arizonica]
MDEVPSDES KSASSGKRVLEQSVHELEEVFKKFDANGDGKISGSELADILRSMGSEVDE
AEVKAMMEEADTDGDGYVSLQEFVDLNIKGATVKDLKNAFKVDFDRDCNGTISP AELCETL
KSVGEPCTIEESKNI IHNVDKNGDGLINVEEFQTMMTSEMTDKSK

>accession|ACY38525.1|Putative allergen Can f 4 precursor [Canis
lupus familiaris]
MKILLCLALVLASDAQPLPNVLTQVSGPWKTLYISSNNLDKIGDNGPFRIYMRGINVD
IPRLKMSFNFYVKVDGECVENS VGASIGRDNLIKGEYNGGNYFRIIDMTPNALIGYDVNV
DSKGGITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIIYLGDTDNC PNHE

>accession|ACY40650.1|Putative allergen Bla g 3 isoform 1
precursor [Blattella germanica]
IPADKVFLRKQWDVLRRLVHRIHQHSI IPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVKRGEPFSTYYIKHREQAIMLFELFYANDYDTFYKTACWARDRVNEG MFLYSFNIA
IMHREDMQDIVIPAFYEIYPFLFVENDVIQKAYDYKMKESGHLN EPHTHVIPVNF TLRNQ
EQLLSYFTEDVFLNAFN TYFRMYPTWFNYTKYEYDVPRHGEQFYFYQQIYARYMLERY
SNDMPDIKPF TYNKAFKTPYNPQLRYPNGQEV PARPAYMVPQDFDLYYVSDIKNYERRVA
DAIDFGYVFCDKMISHSLYNDKKGFEMLAEIIEGNSMHPDY YGHI FHMYSLLGHVTDPF
HKNGEAPSALEHPETALRDPAFYQIWKRVQHYFYKFQMKLPYYTREELTFDGVKIDNV DV
GKLYTYFEPYEMSLGYSVKVENIQDAANVDIRARNYRLNHKPF TYNIEVTSEKETPVYVR
VFLGPKYNYGHEYDLNERRNK FVEIDRFYQLHAGKNAIERN SHESTVVAKEQDTPKVL
YKKVNEAYEGKATYNYDKQTKFCGLPEHLLIPKGGKGGQAF TVYVIVTPYDKAVEKEEHH
FKAYS YCGVPHDTPDDKPLGF PFDRPIHSYDFVTPNMFMKDVFI FHKKYEVEEQH

>accession|ACY40651.1|Putative allergen Bla g 3 isoform 2 precursor [Blattella germanica]
IPADKVF LRKQWDVLR LRVHRIHQHSI IPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVKRGEFSTYYIKHREQAIMLFELFYANDYDTFYKTACWARDRVNEG MFLYSFNIA
IMHREDMQDIVVP AFYEIYPFLFVENDVIQKAYDYKMKESGHLN EPHTHVIPVNF TLRNQ
EQLLSYFTEDVFLNAFN TYFRYMYPTWFN YTKYEYDVPRHG EQFYFNFQMFARYMLERY
SNDMPEIQPFTYTKPFKTPYNPQLRYPNGQEV PARPAYMMPQDFDLMYVSDIKNYEK RVA
DAVDFGYVFC DKMISHSLYNN EKGLEWLGQIVEGNSMHPDFYGHIFHMYRSL LGHITDPF
HKHGVAPSALEHPETS LRDPAFYQIWKRVQHYFNKFQMKQPYYTREELAFDGVKIDNV DV
GKLYTYFEPYEMGLSNAVKVGKLEDV PNVDIRARNYRLNHKPF TYNVEVTSEKDTPVYVR
VFLGPKYNYYGHEYDLNERRNYFVEIDRFYQLHTGKNTIQRNSHDS SVVAQE QD TYKVL
YKKVNEAYEGKTTYTYEKQDKYCGLEPHELLIPKGGKGGQAFTVYVIVTPYDKAVEKEEHH
FKAYSYCGVPHDSVYDKKPLGF PFD RPIHSYDFVTPNMFMKDVFI FHKKYEEVEEQH

>accession|ACY91851.1|Allergen beta-1,3-glucanase form 'RRII Gln 2' [Hevea brasiliensis]
MAICSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGVCYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGN SY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGG SLEV VVSESGWPSAGAF AATFDNGR TYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWKQYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ACZ57582.1|Putative Ole e 11.0101 allergen precursor [Olea europaea]
MSCIAVEAVLLGILLYIPIVLSDDRAPIPSNSAQLNSWFDGIIQPVAVRKATMDPALVTA
EGQTKVIKLSKSDGSGDFKSINEAIKSI PDDNTKRVILSLAPGNYSEKVKIGMYKHYITFY
GEDPNNM P ILVFGGTAAEYGTVD SATLIVESNYFSAVNLKIVNSAPRPDGKRVGAQAAAL
RISGDKASFYNVKIYGFQDTL CDDK GKHFYKDCYIEGTVD FIFGSGKSIFLNTELHAVPG
DQPAIITAQARKT DSED TGYYFVNCRV TGGGAFLGRSWMPAAKVV FAYTEMVDAIHPEGW
ILVKPEHESTVRFSEYNNKGPANMEKRAKRVKRLSDAEAKQSI SLGSI EASKWLLPPRV
VGLP

>accession|ACZ74626.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAMLSSTSRRTGSLLSRTPVMLLLILYIASLGITDAQVGVCYKLGNNLPPASEVIALYK
QSNIKRMRIYDPNQEV LQALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRDFWSSV
RLRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLMGNTY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGG SLEV VVSESGWPSAGAF AATFDNGR TYLSNLI
QHVKGGTPKRPDRAIETYLFAMFDENQKQPEVEKHFGLFFPDKRPKYNLNFSAKKNWDIS
TEHNATVFLKSDM

>accession|ACZ95445.1|Putative Ani s 10 allergen precursor [Anisakis simplex]
MHLITALVLLLQLIHFITSSPIPQEVVGGPGPVVGGSGIGNVWEKANEQAAEQQNIGGPG
PVISGSGIGDVWNKANEPAEQQENIGGPGPVVSGSGIGNVWEKANEQAAHQQSIEGPGPV
VSGSGIGNVWEKANEQAAHQQSIEGPGPVVSGSGIGDVWNKANEQAAEQQNIGGPGPVIS
GSGIGNVWEKANEQAAEQQNIGVGGPGPVKSGSGIGNVWEETNEEAASMQA

>accession|CAM31908.1|Putative bet v 1 related allergen [Actinidia chinensis]
MGVVTYDMEIPSKVPPVKLYKAFILDGDTLVPKVLPHAIKCVKILEGDGCAGTIKEVTFG
EGSHHKCVKQRVDAIDKDNLTYSYTIIEGDVLAEKFE SISISYHIKIVACPDGGSICKNRSI

YTTKGDCCKVSEEEIKLGKEKAAEIFKALEAYLLANPDYC

>accession|CAM31909.1|Putative bet v 1 related allergen
[Actinidia deliciosa]
MGAITYDMEIPSSISAEMFKAFVLDGDTIIPKALPHAITGVQTLEGDGGVGTIKLTTFG
EGSVHKSVKHRIDGLDKNFTYSYSIIIEGGALDVFESISYHIKIVATPDGGCICKNRSIY
TPKCDAAQVSEEEIKAGKERASGIFKKVEAYLLANPDC

>accession|CBA13559.1|Allergen putative alpha-amylase inhibitor
CM2 [Triticum aestivum]
TGPYCYPGMGLPSNPLEGCREYVAQQTTCGVGIVGSPVSTEPGNTPRDRCKELYDASQHC
WCEAVRYFIGRTSDPNSGVLDLPGCPREPQRDSAKVLVTPGHCNVMTVHNTPYCLGLDI

>accession|CBA13560.1|Putative putative alpha-amylase inhibitor
0.28 [Triticum aestivum]
SGPWSWCDPATGYKVSALTGCRAMVKLQCVGSQVPEAVLRDCCQQLADVNNNEWCRCEDLS
SMLRSVYQELGAREGKEVLPGCRKEVMKLTAAVPEVRKVPIPNPSGDRAGVCYWAAYPD
V

>accession|CAY54134.1|Putative alpha/beta gliadin precursor
[Triticum aestivum]
VRVPVQQLQPONPSQQQPQEQVPLVQQQQFLGQQQQHFPGQQQPFPPQQPYQPQPFPLPQ
LPYPQPQPFPPQQSYQPQPQYQPQPISQQQAQLQQQQQQQQQILQQILQQQLIPCR
DVVLQQPNIAHASSQVSQQSYQLLQQLCCQQLWQTPEQSRCQAIHNVIHAIILHHQQQQQ
QQQQQQQQQQQQQQQQQQQQQQPSSQVSYQQPQQQYPSGQGSFQPSQQNPQAQGFVQPQ
QLPQFEEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFSTN

>accession|3FT1_A|Allergen Chain A, Crystal Structure Of Pollen
Allergen Phl P 3 [Phleum pratense]
AVQVTFVQKGSDPKLVLDIKYTRPGDSLAEVELRQHGSEWEPLTKKGNVWEVKSSKP
LVGPFNFRFMSKGGMRNVFDEVIPTAFSIGKTYKPEEQEF

>accession|ADB92492.1|Allergen major allergen Cr-PII
[Periplaneta americana]
MKLPIMILAVLGVAFGKSLPTRNLQDDLNDLFLALVPTDEIVAIVMDYLANDAEVQEA
VAYLQGFDEFHKIVSTVEGLQEFNTNFVQFLEDHGLDAVGYNLHLSVLGWDVYVPPSQRKHARR
GVGVDGLIDDI IAILPIDDLKALFQEKLETSPDFKAFYDAIRSPEFQSIQVTLNAMPEYQ
ELLQKLRDKGVDVDHYIELIRALFGLSRATRNLQDDLNDLFLALIPDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIITVEGLDAFNNFYNFMEHGLDVVDYINEIHSIIGLPPFVP
PTRRHARRGVINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLRDKGVDVDHFIELIRSLFGLP

>accession|ADB92493.1|Allergen major allergen Cr-PI [Periplaneta
americana]
MKTALVFAAVVALVACAAFP AHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVG
NTYDIEANIGNYKYPRVVKQFMAYFKKGM LPRGEPFSVYFEKHREQAIMLYNLFYFANDY
DTFYKTACWARDRVNEGFMYSFSIAVFRDDMQGVMLPPPVEVYPYLFVDHDVHMAQK
YWMKNAGSNEHHSYVIPVNFTLKNQDQLLAYFTSDVNLNAFNTYYRYYPYPSWYNTTLYGH
TIDRRGEQFYTYKQIYARYFLERLSNDLPDVYPFYYSKPVKSAYNPNLRYHNGEEMPVR
PSNLYVTNFDLYYIADIKNYEKREDAIDFGYVFDEHVKPHSLYHDVHGMEYVADMIEGN
MDSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSALEHPETVLRDPAFYQLWKRVDHLF
QKYKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDVSLDMSVYVNVKVDQIPNVVDVHA
RQYRLNHKPFYTYNIEVSSDKAQDVYVRVFLGPKYDYLGREYDLNDRRHVFVEMDRFPHHV
EAGKTVIERNSHDSNIVAPERDSYRTFYKKVQEAAYEGKSQYYVDKGHNYCGYPENLLIPK
GKKGGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSNRKYPDNMPLGYPFDRKIYS

NDFYTPNMYFKDVIIIFHKKYDEVGVQGH

>accession|ADB96066.1|Allergen profilin [Arachis hypogaea]
MSWQTYVDNHLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEPSGL
APTGLYLGGTKYMIQGEPEGAVIRGKKGPGGVTIKKTNQALIIGIYDEPMPGQCNMIVE
RLGDYLIDTGL

>accession|CBJ24286.1|Putative ragweed homologue of Art v 1
precursor [Ambrosia artemisiifolia]
MAAGLLVFLAFSEIASVKGLCEKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCFYFDCDPTKNPGLPPGAPKPKAPSPSPSGGGAPPPSGGEGGDGPPPEGGEG
GGDGGGEGGGEGGGDGGGEGGGEGGGDGGGGGGEGGGEGGGEGGER

>accession|CAX32965.1|Putative parvalbumin [Scomber scombrus]
MAFASVLKDAEITAALDGCKAAGSFDHKKFFKACGLSGKSADEVKKAFAIIDQDKSGYIE
EELKLFQNFKAGARALSDAETKAFKAGDSDGDGKIGVDEFAAMIKG

>accession|CAX32966.1|Putative parvalbumin [Salvelinus
fontinalis]
MACAHLCKEADIKTALEACKAADSFNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLFQNFPCPKARVLTDAETKAFKAGDADGDGMIGIDEFAVWVKQ

>accession|CAX32967.1|Putative parvalbumin [Salvelinus
fontinalis]
MAFAGLNDADVAALAATAADSFNHKAFFAKVGLAGKSNDDVKKAFYVIDQDKSGFIEE
DELKLFQNFASARALTAETKAFKAGDADGDGMIGVDEFAAMIKG

>accession|P86431.1|Putative RecName: Full=Parvalbumin beta 1
[Oncorhynchus mykiss]
ACAHLCKEADLKTALEACKAADSFNFKTFFHTLGFASKXXDDVKKXXXVLDQDASGFLEV
EELKLFQNFPCPKXXXLTDAETKAFKAGDADGDGMLGLDEFAVLVKQ

>accession|P86432.1|Putative RecName: Full=Parvalbumin beta 2
[Oncorhynchus mykiss]
SFAGLNDADVAALAACAADSFNHKAFFAKXXXXXXXXSPDDLKXXXXLDQDKSGFLEED
ELKLFQNFASARALTAETKXXXXAGDADGDGMLGLDEFAVLVKQ

>accession|P85894.1|Allergen RecName: Full=Non-specific lipid-
transfer protein 1; Short=LTP 1; AltName: Allergen=Mor n 3 [Morus
nigra]
ITCGQVSSSLAPCINYLRRAGGVVPANCCNGVRSLNNAKTTADRQAACNCLKSAFNSIKG
LNLNLAAGLPGKCGVSPYKISPSTDCKSVK

>accession|ADC55380.1|Putative tropomyosin [Macrobrachium
rosenbergii]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTQTFSELSGY

>accession|CAA31395.4|Allergen high molecular weight glutenin
subunit 5 [Triticum aestivum]
MAKRLVLFVAVVVALVALTVAEGEASEQLQCERELQELQERELKACQQVMDQQLRDISPE
CHPVVVSFVAGQYEQQIVVPPKGGSFYPGETTPPQQQLQQRIFWGPALLKRYYPVTCPO

QVSYYPGQASPORPGQGQQPGQGQQGYYPSTSPQQPGWQQPEQGQPRYYPTSPQQSGQLQ
QPAQGGQQPGQGQQGQQPGQGQPGYYPTSSQLQPGQLQPPAQGGQQPGQAQQGQQPGQG
QQPGQGQQGQQPGQGQQPGQGQQGQQLGQGQQGYYPSTLQQSGQGQPGYYPTSLQQLGQG
QSGYYPTSPQQPGQGQQPGQLQPPAQGGQQPGQGQQGQQPGQGQQGQQPGQGQQPGQGQPG
YYPTSPQQSGQGQPGYYPTSSQQPTQSQQPGQGQQGQQVGGQQAQQPGQGQQPGQGQPG
YYPTSPQQSGQGQPGYYLTSPQQSGQGQQPGQLQQAQGGQKGGQPGQGQQPGQGQQGQQP
GGQGGQQPGQGQPGYYPTSPQQSGQGQQPGWQQPGQGQPGYYPTSPQLQPGQGQPGYDP
TSPQQPGQGQQPGQLQPPAQGGQQGQLAQGGQQGQPAQVQQGQRPAQGGQQGQQPGQGQQG
QQLGQGQQGQQPGQGQQGQQPAQGGQQGQQPGQGQQGQQPGQGQQGQQPGQGQQPGQGQPW
YYPTSPQESGQGQQPGWQQPGQGQPGYYLTSPQLQGGQGQQGYYPSTLQQPGQGQQPGQW
QQSGQGQHWYYPTSPQLSGQGQRPGQWLQPGQGQQGYYPSTSPQQPGQGQQLGQWLQPGQG
QQGYYPSTLQQTGQGQQSGQGQQGYSSYHVSVEHQAASLKVAKAQQLAAQLPAMCRLEG
GDALSASQ

>accession|ADC80502.1|Allergen non-specific lipid transfer
protein 1a precursor [Phaseolus vulgaris]
MASVKFACVVVLCMVVGAHTAQGMTGQVQSNLVPVTFVFLQNGGFVPAGCCNGVRNIMN
SARSTADRRGICNCLKTAAGAVRGLNPNNAQALPGKCGVNIPYKISTSTNCASIN

>accession|ADC80503.1|Allergen non-specific lipid transfer
protein 1b precursor [Phaseolus vulgaris]
MATLNSACVAVLCLVLTAPTAAHAASCGQVTSLSLASCIPFLTKGGPVPASCCSGVRSL
NAAAKTTPDRQAVCNCLKSAAGAIIPGFNANNAGILPGKCGVSIPYKISTSTNCATIKF

>accession|ADD17628.1|Allergen Per a 3 allergen [Periplaneta
americana]
MKTALVFAAVFAARFPDHKDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVGI
PMTSKQTSATTVPPSGEAVHGVLEGEHARPRGEPFSVNYEKHREQAIMLYDLLYFANDYD
TFYKTACWARDRVNEGFMYSFSIAVFHRDDMQGVMLEPPYEVYPYLFVDHDVHMAQKY
WMKNAGSGEHHSHVIPVNFLLRTQDHLAYFTSDVNLNANFTYRYYYPSWYNTTLYGYF
LERLSNDLDPVYPFYSKHNIDRRGEQFYTYKQIYARPVKSAYNPNLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEKRVEDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMIEGNM
DSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSLEHPETVLRDPVFYQLWKRVDHLFQK
YKNRLLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDMSLDMAVYVNNVDQISNVDVQLAV
RLNHPFTYNIIEVSSDKAQDVYVAVFLGPKYDYLGREYDLNDRRHVYFVEMDRFPYHVGAG
KTVIERNSHDSNIIAPERDSYRTFYKQVQEAAYEGKSQYYVDKGHNYCGYPENLLIPKGGK
GGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDF
YTPNMYFKDVIIIFHKKYDEVGQGH

>accession|ADD18879.1|Putative salivary antigen 5 precursor
[Glossina morsitans morsitans]
MKFVLATLNLVLSAGSVDYCNLCEKHVACVSQNVFQSGCSSDAKMIDLKKYQTLLDA
HNKKRDNVAGGGESKLKRACRMATMKWNSLAKLAEYNVRQCEMNHDKCRNTNTFKYAGQ
NLAEELGRSGAGTPDYGQLIQKAVDSWYEEVNDQNGYIDSYPKDYKGAIGHFTVMVAER
NTHMGCAASQYTRSNGFTYFLLACNYATTNMMFPIYKSCSASAQDCKTGKNSKYQNLCS
ANEKYEVRWFKDGVVEYQ

>accession|ADD19985.1|Putative antigen 5 precursor [Glossina
morsitans morsitans]
MNFVLATLSLLILLSAAVSADYCGLCDNHVACVMQNVFQSGCPSGAKMIDLNKYQSTLLD
AHNKKRNHVAGGGESKLKRACQMATMKWDPELAKLAEYNVKQCQMNHDKCRNTVKFKYAG
QNLAEELGRSGGPDYDYGQLIQKAVDKWYEEVKDCNQGYIDAYPMNYRGPAGHFTVLAER
RNTHMGCAASEYTKSNGFKYFLMACNYATTNMMDFPIYKSCGSSAQDCKSGKNSKYPNLC
SPNEKYEVRWFKDGVVEYH

>accession|CBK62699.1|Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]
MAAGLLVFLAISEIASVKGLCEKPSVTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNPGLPPGAPKGVVKEVVVEGGGEGGGGGEGGGEGGGGER

>accession|BAI94503.1|Putative pollen allergen CJP-8 [Cryptomeria japonica]
MAMRMKSSSMSSYRFSYQMMMLVLMVMTLVQIGAAQSDTNSCVNSLVPCASYLNATTKPP
DSCCVPLLNVIQTQQQCLCNLLNSSIVKQSSINITQALNIPRLCGDTNVSTDACSTNATA
NAPSASTTPSVPADTGDSSGIGATSLQIFLPLLAFFLVFKSFP

>accession|BAJ04354.1|Putative pollen allergen CPA63 [Cryptomeria japonica]
MARRLCSFLLSFLIIVSVWAENSKFARLNLASFTWKDAEDNKNC SAGELETSSLSVMHIQ
GKCSFPFLLNSSWWTAVSESIKGD TARYRAMVKGGWSAGKTMVNPQEDADIPLASGQAIS
SSNYIIKLGFGTTPPQSFYTVLDTGSNIAWIPCNPSCGSSKQPPFEPKSSSTYNLTCAS
QQCQLLRVCTKSDNSVNC SLTQRYGDQSEVDEILSSETLSVGSQQVENFVFGCSNAARGL
IQRTPSLVGFGRNPLSFVSQTATLYDSTFSYCLPSLFSSAFTGSLLLGKEALSAQGLKFT
PLLSNSRYP SFYVGLNGISVGEELVSI PAGTSLDESTGRGTI IDSGTVITRLVEPAYN
AMRDSFRS QLSNLTMASPTDLFDTCYNRPSGDVEFPLITLHFDDNLDLTLPLDNILYPGN
DDGSVLC LAFGLPPGGDDVLSTFGNYQQQLRIVHDVAESRLGIASENC DG

>accession|ADE74975.1|Putative extracellular alkaline serine protease [Aspergillus versicolor]
MYSIKRTILLGALLPAVFGAPILEARRQTEKVPKGIYIVTFKSGLQAEQIDAHTTWASNV
HKRNLERDLTDRDLYPGIEKNFKIHKFAAYVGSFDDATIEEIRNHKDV AHVEEDQVWYL
DALTTQSDAPWGLGAISHQGDASSDYIYDTSAGADTYAYVVD TGINVDHSEFDGRASLAY
NAAGQHVDSVGHGTHVAGTIGGKTFGVSKKANLLSVKVFEGESSSTSIILDGYNWAAND
IVSKSRTGKSAINLSLGGGYSYAFSNAVESAFDEGVLSVVAAGNENVDASNTSPASAPNA
LTVAASTERNARASF SNYGEVVDIFAPGEDILSAWIGGNSATNTISGTSMATPHIVGLSL
YLIALEGLSSPGDVTSRIKELATQGALSGVSGSPNALAYNGAE

>accession|BAJ07603.1|Putative vitellogenin, partial [Oncorhynchus keta]
SMTDLSPFDDNIVNKIHYLFSEVNAVKCSMVGDTLTTFNNRKY PVNMPLSCYQVLAQDCT
IELKFMVLLKKDHASEQNHINVKISDIDVDLYTEDHGVMVKVNEMEISKDNL PYTDPSGS
IMIKQKGEVSLYAKSHGLQEVYFDSNSWKIKVVDWMKGQTCGLCGKADGEHRQEQYRTPS
GRLTKSSVSFAHS

>accession|ADH10372.1|Putative class III chitinase precursor, partial [Coffea arabica]
AGIVRYWGRGHDEPSSLAEFGRQEFATDVNIAFLEDFGGGRMPELNISHPLPSASDIEYC
QKHQTKVFIS IAGQPSLSSVEDAEVAAYVWNTYLGKSSDRPFGKAVLDGVELHIHSGN
TTYLDDLARALKGYSNVISAVAAECP IPDPALDTTIRTGVVDQVRVEFFDNPSCQFTPPK
DTSLFLP SWDNWSDYPGVHKL YLGIPISPTIAPEGGYIPPNELVYHVLPYLKKSPVYGGI
MVFPYLHHEVNFQSM LRSYARAA

>accession|ADK22841.1|Allergen Sal k 4.02 [Salsola kali]
MSWQAYVDEHLMCNIEDTGNHLTSSAIVGVDGSIWAQSSNFPQVKPQEIEAINKEFDGPN
TLAPTGLFLGGEKYMVIQGEPEGAVIRGKKGPGGVCIKKTTQALIFGIYDEPVAPGQCNMV
VERLGDYLIEQGL

>accession|ADK22842.1|Putative Sal k 5, partial [Salsola kali]
KGKGGHNLYHVKG MVYCDTCRIQFITRVSTMMEGATVSLQCRNLTAGTETFKAEAVTDKL
GMYTIKVDGDHEDDICQIVLVKSPGQECSEIPNDVYSEQA AKVTLTSNNGEASDVRNANA

LGFLKKAPLPECPEVLKELDMYDVPGSVTQN

>accession|ADK27483.1|Putative transaldolase [Penicillium chrysogenum]
MSSSLEQLKASGTTVVCDSGDFATIGKYKPDATTNPSLILAASKKPEYAALIDTAVAYG
KQNGKTLDEQVEATLDRLLVEFGKEILKIIPGKVSTEVDAKLSFDTQGSVNKALEI IKLY
ADNGISKDRVLIKIASTYEGIKAAHILQQTQHGINCNLTLMFSLVQAI AAAEAGAYLISPF
VGRILDWYKAAHKRDYTPQEDPGVKSVDIYNYKKFGYNTIVMGASFRNVGEITELAGC
DYLTISPILLEDLFNSTDAVPQKLNPAAGAASLEIKKREYLNNEADFRFDFNNEEAMGVEKL
REGISKFAADAVTLKQLLAQKIQA

>accession|ADK39021.1|Allergen pollen allergen [Ostrya carpinifolia]
MGVFNYEAEETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISKVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVNAEEMKGAKEMA EKLLRAVESYLLAHTAEYN

>accession|ADK47394.1|Putative transaldolase [Cladosporium cladosporioides]
MSSSLDQLKASGTTVVCDSGDFATIGKYKPDATTNPSLILAASKKPEYAKLIDDAVAYG
MKHGKTTEEKIDATFDNLLVQFGSEILKIVPGKVSTEV DARFSFDKDVSIQKALRIIDLY
KEAGIDKERVLIKLASTWEGIQAAHELQTKHGINCNTLMFSLPQAI AAAEAGAYLISPF
VGRILDWYKANTKQEYNASNDPGVKSVDIFNYKKYDYKTIVMGASFRNIGEITELAGC
DYLTIPALLEQLYNSTDAVPQKKAEDVAKLDIEKKSYLKDEALFRFDFNEDPMAVNKL
SEGISKFAADAVTLKDILREKIEKA

>accession|ADK47876.1|Putative Tha p 1 allergen [Thaumetopoea pityocampa]
MKLLILALTCAA AVWARPGETYSDKYDTIDVNEVLQSERLLKGYVECLLDKGRCTPDGKE
LKDTLPDALEHECSKCTEKQKSGADTVIRHLVNKRPELWKELAVKYDPENIYQERYKDRL
ESVKEH

>accession|ADK56160.1|Putative Fel d 7 allergen precursor [Felis catus]
MKALLLAVGLSLITVLQAQDPPASGEDTMAMSGKWYLKAMITDRETSWKKPELVTPMTLT
VLEGGNLKAETLLTNGQCKEVELILEKTSEPKKYTTYGGKRVVYIEPTEVKDHYIFYCE
GEMQGEQARMAKLVGRDPESNEEALENFREFLRAKGFNQEIFSPKQSDTCPPGTDQEPEV

>accession|ADK92390.1|Putative Der p 13 allergen [Dermatophagoides pteronyssinus]
MASIEGKYKLEKSEKFDEFDLDKLGVMVKTAAKTLKPTFEVAKENDQYVFRSLSTFKNT
EIKFKLGEEFEEDRADGKRVKTVINKDGNK FVQQTQFGDKEVKIVREFNGDEVVVTASCD
GVTSVRTYKRI

>accession|CBW30986.1|Allergen putative pectate lyase precursor [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDLQEILPVNETRRLTTS GAYNIIDGCWRGKADW
AENRKALADCAQGF GKGT VGGKGD IYTVTSDLD DDVANPK EGT LRF GAAQNRPLWIF E
RDMVIRLDKEMV VNSDKTIDGRGAKVEI INAGFTLNGVKNV IHNINMHDVKV NPGGLIK
SNDGPAAPRAGSDGDAISISGSSQIWIDHCSLSKSV DGLVD AKLGTTRLT VSNLSFTQH Q
FVLLFGAGDENIEDRGMLATVAFNFTDNDVQRMPRCRHGFFQV VNNNYDKWGSYAIGGS
ASPTILSQGNRF CAPDERSKKNVLGRHG EAAAESMKWNWR TNKDVLENGAIFVASGVDPV
LTPEQSAGMIPAEPGESALSLSLTS SAGVLSLSCQPGAPC

>accession|CBW30987.1|Allergen putative pectate lyase precursor

[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDVEEFLPSANETRRLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGFAGKTYGGKHGVDVYTVTSDKDDDVANPKEGTLRF AAAQNRPLWII
FKRNMVIHLNQELVVNSDKTIDGRGVKNIVNAGLTL MNVKNII IHNINIHDIKVCPGGM
IKSNDGPPILRQSDGDAINVAGSSQI WIDHCSLSKASDGLLDITLGSSHVTVSNCKFTQ
HQFVLLL GADDTHYQDKGMLATVAFNMFTDHDVQRMPCRFRGFFQVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDIIKKNVLARTGTGNAESMSWNWRFTDKDLENGAIFLPSGSD
PVLTPEQKAGMIPAEPGEAVLRLTSSAGVLSCHQGAPC

>accession|CBW30988.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVT SNLDDDVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGGLTLMNVKNII IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKA ILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>accession|CBW30989.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVT SNLDDDVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGGLTLMNVKNII IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKA ILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSDKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>accession|CBW30990.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVT SNLDDDVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGGLTLMNVKNII IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKA ILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKKNVLARTGTGVAESMAWNWRSDKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>accession|CBW30991.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVT SNLDDDVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGGLTLMNVKNII IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKA ILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKKNVLARTGTGVAESMAWNWRSDKDLENGAIFVTS GSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>accession|CBW30992.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVT SNLDDDVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGGLTLMNVKNII IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ

SKAILLGADDTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKKNVLARTGTGVAESMAWNWRSKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPEGAAIKLTSSAGVLSRPGAPC

>accession|CBW30993.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
CCYILYFTLALVILLQPVRSAEDLQQILPSVNETRSLTTCGTYNIIDGCWRGKADWAENR
KALADCAQGFAGKTIGGKGDIIYTVTSELDDDVANPKEGTLRFGAAQNRPLWIIIFARDMV
IRLDRELAINDKTIDGRGAKVEIINAGFAIYNVKNIIIHNIIMHDIVVNPGLIKCNDG
PPAPRKGSDGDAIGISGGSQIWIWDHCSLSKAVDGLIDAKHGSTHFTVSNCLFTQHYYLLL
FWDFDERGMLCTVAFNKFTDNVDQRMPLNRHGFFVQVNNNYERWGSYALGGSAGPTILSQ
GNRFLASDIKKEVVGRYGESAMSESINWNWRSYMDVFENGAI FVPSGVDPVLTPEQNAGM
IPAEPGEAVLRLTSSAGVLSRPGTPC

>accession|CBW30994.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFAGKATHGGKWDIYMVTSDQDDVVNPKEGTLRFGATQDRPLWIIIF
QRDMIIYLQQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNVI IHNIDIHDVRLVPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLSKSFGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

>accession|CBW30995.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFAGKATHGGKWDIYMVTSDQDDVVNPKEGTLRFGATQDRPLWIIIF
QRDMIIYLQQEMVVTSDTTIDGRGAKVELVYGGITLMNVKNVI IHNIDIHDVRLVPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDVWIDHCTLSKSFGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

>accession|ADL09135.1|Putative hyaluronidase precursor [Polybia
paulista]
SWVEFALSERPKRVFNIYWNVPTFMCHQYGINFDEVTDVDFNIKHNSKDNFRGETLAIYYDP
GNFPALIPVNNNGKYKERNGGVPQRGNITIHQQFNEDLDKMTDPKSFSGGIGVIDFERWRP
VFRQNWGNTIEIHKEYSIELVRKEHPKWSKSMIEAEATKKFEKYARYFMEETLKLAKKTRK
RAKWGYYGFPYCYNASPNPSPSCDAKAI IENDRMSWYNNQEILLPSVYVRHKQDPEER
IYLVQGRVKEAVRVSNNLEHSPSVLPYWWYVYQDEMEIFLSETDVKKTFQEIVTNGGDGI
IIWGSSSDVNSLSKCKRLREYLLNTLGP IAVNVTE TVNRRSSLNF

>accession|ADL32660.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKDGGVGTIKHITLTPD
GGPVTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPTADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32661.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKDGGVGTIKHITLTPD
GGPVTMTLRTDGLDKKGFTIDYSVIDGDVLMGFIDKIENHLSVVPTADGGSTTKTTAIF
HTKGDAVVPEENIKYAEAQNTLLFKAVEAYLIAN

>accession|ADL32662.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKDGGVGTIKHITLPE

GGPVTMTLRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDVVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32663.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKDGGVGTIKHITLPE
GGPVTMTLRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDVVPEENIKFAEAQNTMLFKAVEAYLIAN

>accession|ADL32664.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKDGGVGTIKHITLPE
GGPVTMTQRTDGLDKKNCTIDYSYIDGDILMGFIDKIENHLSVVPNADGGSTTKTTAIF
HTKGDVVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32665.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKDGGVGTIKHITLPE
GGPVTMTLRTDGLDKKGFIDYSVIDGDVLLGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDVVPEENIKYAEQNTMLFKAVEAYLIAN

>accession|ADL32666.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAPGAYKNVEIKDGGVGTIKHITLPE
GGPVTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIENHLSVVPADGGSTTKTTAIF
HTKGDVVPEENIKYAEQNTMLFKAVEAYLIAN

>accession|P86687.1|Putative RecName: Full=Hyaluronidase;
Short=Hya; AltName: Full=Hyaluronoglucosaminidase [Polybia
paulista]
GETISIIYDIPGKFPALMPLKNGNYEERNGGVPPQRGNITIHLLQFNEEDLDMPTDKNFGGI
GVIDFERWKPIFRQNWGNTEIHKKYSIELVRYEHPKWSESMIEAEATKKFEKYARLFMEE
TLKLAKEKTRKRAKGGYGFPCYNYTPNNPGPDCDAKAMIENDRLSWMYNNQEILFPSVY
VRHELTPDQRVYLVQGRKEAVRISNNLKHSPKVLVSYWVYVYQDKMDIFLSETDVKKTFQ
EIVTNGGDGIIIIWSSSDVNSLSKCKRLLREYLLNNTLGPFAVNVTETVN

>accession|P86686.1|Putative RecName: Full=Venom allergen 5;
AltName: Full=Antigen 5; Short=Ag5 [Polybia paulista]
NKYCNKCSKVAHTVCQTGESTKPKSSKNCAKVSITSVGVTEEEKKLIVDEHNRFRQKVAQ
GLETRGNPGPQPAASDMNNLVWVNDLAYIAQVWASQCQFFVHDKCRNTAQYQVQNIAYS
ASTAAYPGVVKLIVLWENEVVKDFNYNTGITKENFAKVGHYTQVVWAKTKEVCGSIIKYE
KGMKSHYLVLCNYGPAGNVLGAQIYEIK

>accession|XP_003030591.1|Putative glycoside hydrolase family 15
and carbohydrate-binding module family 20 [Schizophyllum commune
H4-8]
MGLASTVSLALLGLCSLARAQTSAADAYVSAESPPIAQAGILANIGPSGSKSHGAASGVII
ASPSTSNPDYLYTWTRDAALVSRALVDEFIEGESSLQSVIDSYVSSQKLRVDNPSGSY
TSGGLGEPKFNIDLTAFTGAWGRPQRDGPALRAITLITYGNHLLSSGNTSYVTDTIWVAV
KADLDYVVSYNQTFDLWEEVSSSSFFTTAEQHTALRLGATFATAVGASASTYLTQADN
VLCFLQSYWNSNGGYATANTGGGRSGIDANTVLTSHITFDIEAGCDSVTFQPCSDRALSN
LKVYVDSFRGLYSINPTGATDPILTGRYKEDVYNGNPWYLTTFAVAEQLYDALNTWDKL
GSLDVTSTSLAFFKQFDSSITAGTYASSTSEYATLTSAIRNWADGFLEVLADFTPADGGL
TEQIDKSSGNPTSAAADLTWSYASAITAFKARGGAIPASWGAAGLTVPATCSTGGGGGSGG
DTVAVTLNVQATTVYGENIYVTGSVNQLANWSPDNAIALNADNYPTWSVTVNLPAQTQIE
YKYIRKNNQVTVWESDPNRSITTSASGSFTQNDTWR

>accession|ADM15668.1|Putative lipid binding protein [Felis
catus]

MLKVSSLFILLCGLLASSTQEVLSRVSSHITDALTOGLLGMNFLTPTLQITDFQGPKLDI
FSLVLGHQLTNGEANFMVQMKDLRLFQVFIETSPDFKIDLRMPLAFSIQIKFPALNPYI
FHVRTDMKVQLYLEKDVDNRYQLTFGHCRIVPETVWIQSGNFITPMKNFIVENIERALGN
VIIHNFQAKMCPFINSWLYNLNPQVTNQLISLLLQHGTYQATVEIPAK

>accession|ADM18345.1|Putative putative Tab y 1 allergen
[Tabanus yao]

MAPIIVPCLLLVVLVQLCSVINSLDYCSLCRGGGRGEHVGCGSPGFSDDCGQKARTRKFTK
EHKKVILDKINDVRDHVAKGSWGLPVASRMKVIWDEELAALAKRHTQGCVPEAYKCRHT
LRFWSPGQLNFEFYADKMPSTMSLISTAIKRHTQKHNI TRDII EKYPAGPKGNVKELA
LAISDRVAVGCGLTTWKLGGKARALLTCNFSSENDYNRPVYKTGNSPGEKCIKKDETFK
NLCSAQEPINPNEHNF

>accession|ADM18346.1|Putative putative Tab y 2 allergen
[Tabanus yao]

MKLHQGLVCLSVLILLPTCILGDRKFEVYWNIPTFMCPDQNKTIMDLNKKHGVIQNTEDL
FRGDKISLLYHPGAFPAITRNKTTNTLIYENGGVPQAGNLSLHLKLEKDINEQITDKNF
SGLAVIDFELWRPIFRQNGGSLSDYQNL SLKLEKDLHPEFNEDQLRKEAERRIEKFGRSF
IKQTLIKAKKLRPKAQWGYAFPPYCFNGRRRYVDTICIPSAKIDNDRILYMFENS DVIYPA
VYLQTDLAQKNQTLGVKGRVDEAVRMAKMKKPAKPPVLVYHRYVFTDTLEYISKENTTA
VFKAMKDNAGDGIWGSFFDLNSKEKCAKFLDYLRVLPVVIDEVKRS

>accession|ADM52184.1|Allergen Der f 1 allergen, partial
[Dermatophagoides farinae]

RPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES LKYVEANKGAINHLSDSLDEFKNR
YLMSAEAFEQLKTFDLNAETSACRINSVNPSELDLRSLRTVTPIRMQGGCGSCWAFSG
VAATESAYLAYRQTSLDLSEQLVDCASQHGHGDTIPRGIEYIQQNGVVEERSYPYVAR
EQRCRRPNSQHYGISNYCQIYPPDVKQIREALQTHTAIAVIIGIKDLRAFQHYDGRITII
QHDNGYQPNYHAVNIVGYGSTQGVYDVIWRNSWDTTWGDSGYGYFQAGNNLMMIEQYPYV
VIM

>accession|ADN39439.1|Allergen class I chitinase isoform 2
[Castanea sativa]

EQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSPTTTTSSPTASGGGGDVG
SLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNFGTTGDVTTTRKRELAFLAQ
TSHETTGGWATAPDGPYAWGYCFIMENNKQTYCTSKSWPCVFGKQYYGRGPIQLTHNYNY
GQAGKAIGADLINNPDLVATNPTISFKTAIWFWMTPQANKPSSHDVIGNWRPSAADTSA
GRVPSYGVITNIINGGLECGHGSDDRANRIGFYKRYCDTLGVSYGNNLDCYNQK PFA

>accession|ADN39440.1|Putative prunin 1 precursor [Prunus
dulcis]

MAKAFVFSCLLLVFNGLAARQSQLSPQNCQLNQLQAREPDNRIQAEAGQIETWNFNQ
EDFQCAGVAASRITIQRNLHLPSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESSQSSQ
QGRQQEQEQERQQQQQEQGRQQGQQEQQERQGRQQGRQQQEEGRQQEQQQGQGRPQQ
QQQFRQFDRHQKTRRIREGDVVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNP
KFYLAGNPENEFNQGQSQPRQQEQGRPGQHQQPFGRPRQQEQQSGNNVFSGFNTQLL
AQALNVNEETARNLQGNDRNQIIRVRGNLDFVQPPRGRQEREHEERQQEQQLQERQQQ
GGQLMANGLEETFCSLRLKENIGNPERADIFSPRAGRISTLN SHNLPILRFLRLSAERGF
FYRNGIYSPHWNVAHSVVYVIRGNARVQVNVNENGDAILDQEVQQQLFIVPQNHGVIQQ
AGNQGFYFAFKTEENAFINTLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIA
LSSSQRRRAV

>accession|ADN39441.1|Putative prunin 2 precursor, partial
[Prunus dulcis]

CLLLLFNGCLASRQHIFGQNKWQLNQLQLEAREPDNHIQSEAGVTESWNPSDPQFQLAGVA

VVRRTEPNGLHLPSYVNAPQLIYIVRGRGVLGAVFPGCAETFEDSQPQQFQQQQQQQQF
RPSRQEGGQGGQQQFQGEDQQDRHQKIRHIREGDI IALPAGVAYWSYNNGEQPLVAVSLLD
LNNDQNQLDQVPRRFYLAGNPQDEFNPQQQGRQQQQQQQQGQNGNINFSGFDTQLLAQA
LNVNPE TARNLQGQDDNRNEIVRVQGLDFVSPFSRSAGGRGDQERQQEEQSQREREK
QREQEQQGGGGQDNGVEETFCSARLSQNI G DPSRADFYNPQGGRISVVNRNHLPI LRYLR
LSAEKGVLYNNAIYTPHWH TNANALVYAIRGNARVQV V NENGDPI LDDEVREGQLFLIPQ
NHA VITQASNEGFEYISFR TDENGF T N T LAGRTSVLRALPDEV LQNAFRISRQEARNLKY
NRQESRLLSATSPPRGRLMSILGY

>accession|C7E3T4.1|Allergen RecName: Full=Arginine kinase;
Short=AK; AltName: Allergen=Pen m 2 [Penaeus monodon]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSPLFDPIIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMEAKVSS T LSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTF L V W V N E E D H L R I I S M Q M G G D L G
QVFRRLTSAVNEIEKRIPF SHHDRLGFLTF CPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGI L E L I K M E K E M

>accession|P86739.1|Putative RecName: Full=Parvalbumin beta 1
[Macruronus magellanicus]
SFAGILDADITAALAACKAEGSFKHVEFFAKIGLAGKKVFAIIDQDKSDFVEEDELKLF
LQVFSAGARAL TDAETKAGDSDGDGKIGVDEFAQMIKG

>accession|P86745.1|Putative RecName: Full=Parvalbumin beta 1
[Merluccius australis australis]
AFAGILADADITAALAACKAEGTFTHG V F F T K I G L K G K S A A D I K K V F G I I D Q D K S D F V E E
DELKLF L Q N F S A G A R A L T D A E T A T F L K A G D S D G D G K I G V D E F A A M V K G

>accession|P86749.1|Putative RecName: Full=Parvalbumin beta 1
[Merluccius australis polylepis]
AFAGILADADITAALAACKAEGTFTHG E F F T K I G L K G K S A A D I K K V F G I I D Q D K S D F V E E
DELKLF L Q N F S A G A R A L T D A E T A T F L K A G D S D G D G K I G V D E F A A M V K G

>accession|P86761.1|Putative RecName: Full=Parvalbumin beta 1
[Merluccius gayi]
AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLF L Q N F S A G A R A L T D A E T A T F L K A G D S D G D G K I G V D E F A A M V K G

>accession|P86768.1|Putative RecName: Full=Parvalbumin beta 1
[Merluccius paradoxus]
AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSPADIKKVFGIIDQDKSDFVEE
DELKLF L Q N F S A G A R A L T D A E T A T F L K A G D S D G D G K I G V D E F A A M V K G

>accession|P86774.1|Putative RecName: Full=Parvalbumin beta 1
[Merluccius productus]
AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLF L Q N F S A G A R A L T D A E T A T F L K A G D S D G D G K I G V D E F T A M I K G

>accession|P86741.1|Putative RecName: Full=Parvalbumin beta 2
[Macruronus magellanicus]
AFAGILADADCAALKACEAADSFNYKAFFAKVGLASKSAEEIKKAFFVIDQDKSGFIEE
DELKLF L Q N F V A G A R A L T D A E T K A F L K A G D S D G D G A I G V D E F A A L V K A

>accession|P86750.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius australis polylepis]

AFSGILAEADIAAALKACEAADSFNKKAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKLFQVFSAGARALTAETKAFKAGDSGDGAIGVDEFAVLVKA

>accession|P86752.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius bilinearis]

AFAGILADADIAAALAACKAEGSFKHGEYFAKIGLKGKSAADIKKVFGLIIDQDKSDFVEE
DELKLFQVFSAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86757.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius capensis]

AFSGILAEADIAAALKACEAAGTFNKAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFQVFSAGARALTDDETKAFKAGDSGDGAIGVEEWAALVKA

>accession|P86765.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius merluccius]

AFAGILADADITAALAACKAEGSFKHGEFFTKIGLKGKSAADIKKVFGLIIDQDKSDFVEE
DELKLFQVFSAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86769.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius paradoxus]

AFSGILAEADIAAALKACEAAGTFNKAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFQVFSAGARALTDDETKAFKAGDSGDGAIGVDEWAALVKA

>accession|P86771.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius polli]

AFSGILAEADIAAALKACEAAGTFNKAFFAKVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKLFQVFSAGARALTAETKAFKAGDSGDGAIGVDEWAVLVKA

>accession|P86775.1|Putative RecName: Full=Parvalbumin beta 2
[Merluccius productus]

AFSGILAEADIAAALKACAAADTFNKAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKLFQVFSAGARALTAETKAFKAGDSGDGAIGVDEFAVLVKA

>accession|P86740.1|Putative RecName: Full=Parvalbumin beta 3
[Macruronus magellanicus]

TFFKSNDVKKKAFFVIDQDKSGFIEEDELKLFQVFSAGARALTAGETKTFLAAGSDGDG
GMIGVDEFQALVKA

>accession|P86742.1|Putative RecName: Full=Parvalbumin beta 3
[Macruronus novaezelandiae]

SFNKTFKLAAKSNDVKKKAFFVIDQDKSGFIEEDELKLFQVFSAGARALTAGETKTF
LAAGSDGDGMIGVDEFQALVKA

>accession|P86753.1|Putative RecName: Full=Parvalbumin beta 3
[Merluccius bilinearis]

AFSGILADADIAAALKACEAADSFNKKAFFAKVGLSAKSAEDIKKAFFVIDQDKSGFIEE
DELKLFQVFSAGARALTAETKAFKAGDSGDGAIGVDEFAVLVKA

>accession|P86770.1|Putative RecName: Full=Parvalbumin beta 3
[Merluccius paradoxus]

AFAGVLADADIKAAALAGCAAESFNKTFKACGLAGKFFAIIDQDHSKFIEEDELKLFQ
VFSAGARALSDAETKDVGDGMIGVDEFVALVKA

>accession|P86772.1|Putative RecName: Full=Parvalbumin beta 3
[Merluccius polli]

AFAGVLADADIKAAALAGCAAESFNKYKTFKFFAIIQDHSGFIEEEELKLFQTF SAGA
RALSDAETK

>accession|P86754.1|Putative RecName: Full=Parvalbumin beta 4
[Merluccius bilinearis]

AFAGVLADADIKAAALAGCAAADSFNKYKTFKACGLFFAIIQDHSGFIEEEELKLFQTF
SAGARALSDAETKTFLAAGDVGDMIGVDEF A

>accession|P86760.1|Putative RecName: Full=Parvalbumin beta 4
[Merluccius gayi]

AFAGVLADADIKAAALAGCAAADSFNKYKTFKFFAIIQDHSGFIEEEELKLFQTF SAGA
RALSDAETKAFLAAGSDGDGKIGFVALVKA

>accession|A2V735.1|Putative RecName: Full=Tropomyosin; AltName:
Full=Tropomyosin, slow-tonic isoform; Short=Tm-Chio-tonic
[Chionoecetes opilio]

MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANLRAEKTEEEIRANQKKSQLVENELDHA
QEQLSAATHKLVEKEKAFANAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>accession|CBW45298.1|Putative thioredoxin [Plodia
interpunctella]

MSIHIKDVEDLTARL TEAGDKLVVIDFMATWCGPCKIIGPKLDEIAAEMADSIVVVKVDV
DECEDIATEYSINTMPTFVFKNGKPVQFSGANVEKLRSTILK LK

>accession|ADQ53858.1|Allergen Ara h 1 allergen [Arachis
hypogaea]

MRGRVSPMLLLGILVLSVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTTNQRSPPGERTRGRQPGDYDDRRQPRREEGGRWGPAGP
REREREEDWRQPREDWRRPSHQPRKIRPEGREGEQEWGTPGSHVREETSRRNNPFYFPSR
RFSTRYGNQNGRIRVLQRFDRSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNNRRALILTRAMHSESHPFHFLHLDGMTPEL RVAKSHAVNTPGQFEDFFP
ASSRDQSSYLQGF SRNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEG
VIVEVSKEHVEELTKHAKSVSKKGSEEGDITNPINLREGEPDLSDNFGRLFVVKPKDN
PQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVINKGTGNLELVAVRKEQQQRGRREQE
WEEEEEEDEEEEGSNREVRRYTARLKEGDVFI MPAAHPVAINASSELHLLGFGINAENNR
IFLAGDKDNVVDQIEKQAKDLAFPGSGEQVEKLIK NQRESHFVSAR PQSQSPSSPEKEDQ
EEENQGGKGPLLSILKAFN

>accession|ADQ53859.1|Allergen Ara h 3 allergen [Arachis
hypogaea]

MAKLLALS LCFVVLGASSVTFRQGGEENECQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRNALRRPFYSNAPLEIYVQQGSGYFGLIFPGCPSTYEEPAQEGR
RYQSQKPSRRFQVGGDDPSQQQQDSHQKVRHFDEGD LIAVPTGVAFWMYNDEDTDVVTVT
LSDTSSIHNLQDQFPRRFYLAGNQEQEFLRYQQQQSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEFLQHAFQVDRQTVENLRGENEEREQGAIVTVKGLRILSPDEEDESRSPPNR
REEFDEDRSRPQQRGKYDENRRGYKNGI EETICSASVKKNLGRSSNPDIYNPQAGLSRV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVVD SNGNRVYDE
ELQEGHVLVVPQNFVA AKAQSENYEYLAFKTD SRPSIANQAGENSIIDNLPEEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>accession|CBY17558.1|Putative tropomyosin, allergen Pan b 1
[Pandalus borealis]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFGLOKQKLOLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLAEEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSITDELDTQTFSELSGY

>accession|P0CH89.1|Putative RecName: Full=Hyaluronidase;
Short=Hya; AltName: Full=Hyaluronoglucosaminidase; AltName:
Allergen=Ves m 2 [Vespula maculifrons]
DRCIWPKEGFSIYWNIPTHFCHNFGVYFKEL

>accession|P0CH87.1|Putative RecName: Full=Venom phospholipase
A1; AltName: Allergen=Vesp c 1 [Vespa crabro]
FNPCPYSDDTVKMIVLTRENKKYDFYTLDTIKNHNEFKDTITLKPVVFITHGFTSSATAE
NFVVMKALLDKGNVILTDWRMAACTNEIAGLKLAYYPYAASNTRLVGNVYIATVTKML
VQKYNVPMANIRLIGHSLGAHISGFAGKKVQELGLGKYPEIIGLDPAGPSFKSNDCSQRI
CETDANYVQIIHTSNRLGTERTLGTVDYFYMNGYNQPGCGLPIIGETCSHTRAVKYFTEC
IKHECCLIGVPKSKNPQPVSKCTRNECVGLNAKTYPKTGSFYVPVESKAPYCNKNGKI
I

>accession|P0CH86.1|Putative RecName: Full=Venom phospholipase
A1; AltName: Allergen=Ves s 1 [Vespula squamosa]
GSKCPSDDTVAMVIVTRENRRDFYTLQTLRNHDEFKKAITRPVVFITHGFTSSATVE
SFVDLQTAILEXXXXKVTVSDWRVAACNRRTGLLYYVTAVSNTLRLVGRYIATVTKLVTD
YNVSMADIRLIGHSLGAHVSGFAGKEVQKLKLEKYSEIIGLDPAGPSFESNDCAERLCKT
DAHVYQIIHTSKKFGIEKSIGHVDFYVNQGNQPGCGIIPKDVCSHSRAITYMTECIKR
ECLLIGIPQSKSSKSISSCTRQECVGLKAKSYPNTGSFYVPVESTAPFCNNKNGKII

>accession|P0CH88.1|Putative RecName: Full=Venom protease;
AltName: Allergen=Bom t 4 [Bombus terrestris]
VVGKPAKLGAWPVMVALGF

>accession|ADR66939.1|Allergen non-specific lipid transfer
protein [Prunus persica]
MAYSAMTKLALVVALCMVSVPIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>accession|ADR66943.1|Allergen non-specific lipid transfer
protein [Prunus avium]
MACSAMTKLALVVALCMVSVPIAQALTCGQVSSNLAPCIPYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVANNAAALPGKCGVNVYPYKISPSTNCATVK

>accession|ADR66944.1|Allergen non-specific lipid transfer
protein [Prunus avium]
MACSSMTKLALVVALCMVSVPIAQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVANNAAALPGKCGVNVYPYKISPSTNCATVK

>accession|ADR66945.1|Allergen non-specific lipid transfer
protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVSVPIAQQAIAITCGQVVSTLAPCINIVKSGGAVPPACCNGIR
TLNGLAKTTADRQAACNRLKQLSGSIPGVNPNNAAALPGKCGVNVYPYKISISTNCAAVK

>accession|ADR66946.1|Allergen non-specific lipid transfer
protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVSVPIAQAITCGQVNSVAPCIPYVIGGGAVPPACCNGIRNV

ENLAKTTADRQAACNCLKQLSGSIPGVNPNNAALPGKCGVNPYPYKISISTNCAAVK

>accession|ADR66947.1|Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVSVPIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAALPGKCGVNIPYKISASTNCATVK

>accession|ADR66948.1|Allergen non-specific lipid transfer protein [Prunus armeniaca]
MAYSAMTKLALVVALCMVSVPIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAALPGKCGVNIPYKISISTNCAAVK

>accession|ADR82196.1|Putative hevamine [Hevea brasiliensis]
GGIVIIYWGQNGNEGTLTQTCSTRKYSYVNI AFLNKFNGQTPQINLAGHCNPAAGGCTIV
SNGIRSCQIQGIKVMLSLGGGIGSYTLASQADAKNVADYLWSNFLGGKSSSRPLGDAVLD
GIDFDIEHGSTLYWDDLARYLSAYSQKQKVVYLTAAPOCPFPDRYLGTALNTGLLTMYGF
NSITIHASIAQVTLTSLTRGIDGPHL

>accession|ADR82198.1|Putative Per a 2 allergen [Periplaneta americana]
MTFLIQSAFVALAAISAVLCDPVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPASASCVSGGCNCANVHKYYSNKPVSNVAVSVRILGSGYANGSEAHDYIAVSTLNA
TNQGFLLADDISNDICSLGADCVI GLGRPKSGRAAFNLPTVMENFVNQDNIANSF SFHHG
RYPDGQHRGVLVLGGTIPAYYRGDFTYVPLVDKDTWNFKVDSISVGNEVVATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTL CVFDCDKLDNVP SVTFTIGGVAFNISSTY
HIQQNGDLCYSGFQYSAGKCFHFDFMDNYAKFDGQNKRMGFAKSVEEL

>accession|3LIZ_A|Allergen Chain A, Crystal Structure Of Bla G 2 Complexed With Fab 4c3 [Blattella germanica]
EAEASIVPLYKLHVHFINTQYAGITKIGNQNFLT VFDSTSCNVVVASQECVGGACVCPNL
QKYEKLPKYISDGNVQVKKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELSQEVCLIL
SADVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHARFQDGEHFGEIIFGGSDWK
YVDGEFTYVPLVGGDDSWKFRLDGVKIGDTTVAPAGTQAIIDTSKAIIVGPKAYVNPINEA
IGCVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQPCGH
SDHFFIGDFFVDHYHSEFNWENKTMGFGRSVESV

>accession|CBY83816.1|Allergen hyaluronidase [Vespa magnifica]
MLLVTLFLFFLQALVNGDSCGSNCEKSERPKRVFNIYWNVPTFMCHQYGLYFDEVTFNFI
KHNSKDNFQGDKIAIFYDPGEFPALLPLNYGKYKIRNGGVPQEGNITIHQRFI EYLDKT
YPNRNFSGIGVIDFERWRPIFRQNWGNMKIYKNFSIDLVRKEHPFWNKKMIELEASKRFE
KYARLFMEETLKLAKKTRKQADWGYGYPYCFNMSPTNFVPCDVTARDENNEMSWLFNN
QNVLLPSVYIRRELTDPQRIGLVQGRVKEAVRISNKLKHSPKVF SYWWYVYQDETNTFLT
ETDVKKTFQEIVINGGDGIIIWGSSSDVNSLSKCTRLREYLLTVLGP IAVNVTEAVN

>accession|ADT89774.1|Putative phospholipase A1 [Polybia paulista]
GLIPECPFNEYDILFFVYTRDKQDGIILKNNLTSYNLFQQPQISHRVVFLIHGFISTGN
NGNFDAMAKALIAKDNFLVMSVDWRRACDASVFNVAGYSKAVANTRRVGKYVADFTKIL
VDKYKVPMSNIRLIGHSLGAHTSGFAGKQVQKLLGKYSEI IGLDPAGPSFRSTNCPDRL
CETDAQYVQVLHTSSKLGTYDQIGSVDFYVNYGGSQPGCLVVRTCSHTKAVLYMTECIKRE
CCLIGTPWSSTGSSPKPKPISACKRDICVCVGLNAKSYPAGKSFYVPVEKNSPYCHNEGI
KL

>accession|ADV17342.1|Putative myosin light chain [Penaeus monodon]

MSRKSGSRSSSKRSKSKSGGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINF'TMLLNMF AERQTGESDDDDVVAKAFLAFADEGGNID
CDTFRHALMTWGDKFSSQEADDALDQMDIDDAGKIDVQSVIQMLTAGGGDDAAAEAA

>accession|ADV17343.1|Putative sarcoplasmic calcium binding
protein [Penaeus monodon]
MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDEFKQAVQKHCQGGKYGDFPGAFKVF IANQFKAIDVNGDGK
VGLDEYRLDCITRSAFEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>accession|BAJ61596.1|Putative paramyosin [Haliotis discus
discus]
MDYGDVSSKVVRTVSHRSYNVYRGSSPATQNRLEARIRELEDALDTERDCRVRAEKNLAE
ITFQYDQVADRLEEQQGGVTVQQIEINKKRESELNKVRKDLELAVISHESAEASLRKRNOE
TINDLTDQLEYMTKQKNRVEKEKHQLII EIDTLQGM TDSLAKAKSSAESRADGLQGSVDR
LKLQVDDL SRQLTDANS AKARLTQENFDLQHQQELDSANAALAKAKS QLQASND DLKRQ
LDDESQRQNLQVQFSQLQSGYDNLNARYEESEESASTLRTQLSKVNAEFAALKARFEKE
LMAKSEALEELRRRLNTRIAQLEDECE TLRARNNNLEKTKAKLTAEIKEITIELENTQII
VQDLTKRNRTLENENGI LQRRCELGAEVSALRAEKASLEAEVHRLRVANAELTERNDNL
QRENKNLS DQLREAQLALKDANRELNELRQIRAQLEMERDSLASQLRDTEEALRDAEGKL
AAAQAALNQLRIDMENRLREKDEEIDNIRRSSARAI EELQRTLIEVETRYKTEISR IKKK
YETDIRELEGALDNANKANA EYLKQIRSLQLRVKELEVLLEEERRLADDLRGQLSISERK
RIALQQEVEDVRSLL EAAERARKNAENELNDANARLSELQIQVTALSNDKRRMEADISAM
QSDLEDAINAQRAAEERADRLF NENVRLADELQEQENYKNAESLRKQLEIEIREITVRL
EEAEAFATREGKRMVAKLQARIRDLEAELEAEQRRVREAFATSRKLERQYKEIQMQTEDD
RRILAETMSINDQLSMKV KAYKRQIEESEDVANLTMNKYRKAQQQLIEEADHRADMAEKNL
VAVRRSRSMSVTRDVKIVRI

>accession|CBY93636.1|Allergen allergen 5 protein [Vespa
magnifica]
MKISGFVYLILITTIINLSFSEANNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKGSGLT
KAEKLEILKQHNEFRQKVARGLETRGKPGPQPPAKSMNTLVWNDELAQIAQVWASQCKYG
HDDCRNTAKHSVQONIAQQSTTAASFGSVSNMVQMWADEVKNYQYGSTKNKLI EVGHYTO
MVWAKTKEIGCGSIKYEIENGWHRHYLVCNYGPAGNIGNEPIYEKK

>accession|ADW27428.1|Putative 16 kDa major allergen [Fagopyrum
tataricum]
MKLFIILATATLLIAATQAKYLRDEGFDLGETQMSSKCTRQVKMMEPELVKCNRYIAMDI
MDDKYEEALSRIQEGEGCESEEKFLRGCCVAMKEMEDECVCCEWMKMMVENQKGRIGETLMR
KGIRDLKELPNKCGISEMECHSRGNWYVV

>accession|2X45_A|Allergen Chain A, Crystal Structure Of Arg R 1
In Complex With Histamine [Argas reflexus]
MDDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTD FKENKTATYTYGYK DAS
GKLTKTGTGATAKGS DIVVGS DTSTVIYTDGKTC DVVKHGGHTELWVHSSKTS GGYNNCC
DKKFTETRSTPANEVYKCPGMP

>accession|ADX78255.1|Allergen Tab y 3 allergen [Tabanus yao]
MFKITVFIYVLQ LILPSKVHSSPVPDSNGLREFPLSIVHINDFHARFEQTDELGGQCKP
TAKCVGGYARLVTTVKKLKEEGQNTIFLNAADNYQGT LWYNLGKWNVTAYFMNLLPADAM
TLGNHEFD DDKIEGIVPFLEVIKTPIVVANIDDSLEPTFKGKYTKSVVLERGGRKIGIVGV
IAQNTDNISSPGKLRFLDEIQSVKNESKRLREEEKVDIVIVLSHIGLDHDYDLAEQAGDY
IDAIIGGHSHSFLWTGDNPPGKEKVVDAYPVEIVQTS GKKVLIVQASAFARYVGNITLYF
GENNNLIRYAGAPVYLDSDVPEVPQIVEEMKAWEEFVHEKGNEIIAESRVVLSRENCRV S

DCNIGNFFTDAYVHEYVTSHTGPHYWTPVSVGLMNVGGIRASVDRGNITFSQLITMAPFEN
TVDTFDLSGKHLLEAFEHAVTVPNRLGFNGQNMLQVSGVKLVYDVTKCEGQRVVS AKIRC
QKCDIPKYEPLDPEETYRIVTASFLANGGDGFTMIRDNKKNYKVGRKDYDVLIN YAKYSS
PITIGEEGRIRIIQ

>accession|BAJ78220.1|Putative Ani s 11 allergen precursor
[Anisakis simplex]

MHSTAILLLLVLQLSCYFAASFILPGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKPKD
NAGQRQVNI PPPFIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPPQSGQLPIG
GPGPVVSGSGIGGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKPKDNAGQRQVNI PPP
FIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPPQSGQLPIGGPGPVVSGSGIG
GGANPPRFPVGGPGPIISGDGVNVLQKANSIPKPKGNANPPQLPVGGPGPVISVDGESVL
QKEENSL

>accession|BAJ78221.1|Putative Ani s 11-like protein precursor
[Anisakis simplex]

MHSTAILLLLVLQLSCYFAASFILPGDHGLPVGGPGPVISVDGKNVWEDANGMSELHGPGP
VVSGSGIGRVFPPRSGQLPIGGPGPVVSGSGIGGGANPPRFPVGGPGPIISGDGVNVWQK
ANSIPKPKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>accession|BAJ78222.1|Putative Ani s 11-like protein 2 precursor
[Anisakis simplex]

VGGPGPVISVDGKNVWEDANGMSELHGPGPVVSGSGIGRVFPPRSGQLPIGGPGPVVSGS
GIGGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKPKDNAGQRQVNI PPPPFIRGPGPV
VSGSGIGEVGQVPIGGPGPVVSGSRVFPPLRGPLPIGGPGPVVSGSGIGRVFPPRSGQL
PIGGPGPVVSGSGIGQVFPPQSGQLPIGGPGPVVSGSGIGGGANPPRFPVGGPGPIISGD
GVNVWQKANSIPKPKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>accession|BAJ78223.1|Putative Ani s 12 allergen precursor
[Anisakis simplex]

MLSHLWLIQLCIVAVLSNSEREEFAFLCPVVKNLPPSVREQCIESQIVIRDCKEKKYGEN
CAELIKQCVTITGAPPVTIGGSGQYRVASSLRDCIKKGGYMGYCSNFTTHENCIKWKDEC
APSEAAEKKDENSLEVPETFSQCFKSQVVMQOCMNEGEEEC SKIEKECVDALGTPPVTT
AANGAYQMAAPLHRCIENGGWMMCMSTWINATICERWKQEC SRDKDAEPPTNFSQCIQTQ
TVMLQCKLEFGDKCKALQEECVAAATYAPTAYVDANPPIFTSETIRCVQRKMAKGL

>accession|CAX62129.1|Putative allergen lipocalin Cav p 2.0101
precursor [Cavia porcellus]

MMQILLLALAVSLACADSIDYSKVPGNWRTIAIAADHVEKIEVNGELRAYFRQVDCTEGC
DKISITFYTNTDGVCTEHTVVGARNGENDVYTVDYAGENTFQILCNSDDAFVIGSVNTDQ
NGQTTKEVAIAAKRNFLTPEQE QKFQKAVQNAGIPL ENIRYVIETDTC PD

>accession|CAX62130.1|Allergen allergen lipocalin Cav p 3.0101
precursor [Cavia porcellus]

MQILLLALTIGLAYAHQTLDPSEINGQWHTISIAADNVEKIGEGGPLRGPYFHNHLHCYDGC
KNIGLTFYVKLDGNCQRFVDVLGAKQEDSDVYVAQYSGTNHFEVIGKKEDAI AFYNHNTDE
TGKETKMIVVARRDSLTEEEQQKLQEVAGEKGIPKDNIRYFRERDTCAQ

>accession|BAK09232.1|Putative parvalbumin [Evynnis japonica]
MPFKGLQDADVAKALEGCKDAGTFDHHKFFHACGLSGKSGADV KDAFFVIDQDKSGFIEE
EELKLF LQNFKAGARALTDEETKKFLKAGSDSDGDGKIGADEFAEMVKV

>accession|BAK09233.1|Putative parvalbumin [Evynnis japonica]
MAFSGVLSDADMKAALDGC SAADSFYKFFKACGLSGKSADEVKKAFAIIDQDKSGFIE
EELKLF LQNFGKSARALTDKETKAF LAAGSDSDGDGKIGVDEFAALVKA

>accession|CBG76811.1|Putative pollen allergen Sec c 5 [Secale cereale]

MAVQQYTVALFLAVALVAGPAVSYGTYAPAAPGTQPKATTPEQKLMENINNGFKAAVEEA
AAVAPADKYKTFQTTFIKGSNKAFADVLTAASGQIPAQSDSMARLSTSLESSYKLAYDS
AEGATPETKYDYTVASLTESLRVISGAFEVHAVKPASEEVKGVPPAPQLKVVDQIDAAYRT
AATAANAAPTNDKFNVFESSFNKAIKENTGGAYASYTFVPALESVAVKQAYAATVASAPEV
KYAVFQAALSKAINAMVEAEKDAKPAAAAAATATATATATVGAAGAAAGGYKA

>accession|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]

MAVQKYTVALFLAVALVAGPAASYAADAGYTPAAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKA AVAAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTAYDVA
YKAAEATPEAKYDAFVTALTEALRVIAGALEVHAVKPAATEEVLAAKIPTGELQIVDKIDAA
FKIAATAANAAPTNDKFTVFESEAFNKALNECTGGAYETYKFIPLSLEAAVKQAYAATVAAA
PEVKYAVFEAALTKAITAMTQAQKAGKPAAAAAATAAATVATAAATAAAVLPPLLVVQSL
ISLLIYY

>accession|P85524.1|Putative RecName: Full=Kirola; AltName: Allergen=Act d 11 [Actinidia deliciosa]

MDLSGKMVKQVEILSDGIVFYEIFRYRLYLISEMSPVNIQGVLDLLEGNWGTVGSVIFFKY
TIDGKEKTAKDIVEAIDEETKSVTFKIVEGDLMELYKTFIIIVQVDTKGEHNSVTWTFHY
EKLKEDVEEPNTLMNFCIEITKDIETYHLK

>accession|AEE98392.1|Putative Manioc Glu [Manihot esculenta]

MATAEVTVAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEEPKEAEPVAVSEEPKGGDD
APAEEVAVETKEVVEVEEAKTVTEEPTVEKTEEEEEETPKEETPEPVVKETPKEEPTAETV
VEEAPKETTEAATEAEAPAPESAPASAPETPAEEEEVPKEEEGDEKKSEAEVEAEKTE

>accession|AEH31546.1|Putative low molecular weight glutenin [Triticum aestivum]

MKTFLIFALLAIVATSIAIQMENSHPGLERPSQQQPLPPQQTLSHHQQQQPIQQQPQPF
SQQQPCSQQQQQPLSQQQPPFSQQQPPFSQQQQPLSQQQPPFSQQQPPFSQQQPPF
SQQQPPFSQQQPVLPQQPSFSQQQLPPFSQQQSPFSQQQQIVLQQQPPFLQQQPSLPQ
QPPFSQQQQQLVLPQQQIPFVHPSILQQLNPKVFLQQQCSPVAMPQSLARSQMLQQSSC
HVMQQQCCQQLPQIPQQSRYEAIIRAIYYSIILQEQQQVQGSIQTPQQQPQQLGQCVSQPQ
QQSQQQLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLRYRTTTSVPF
GVGTGVGSY

>accession|CBM42660.1|Allergen group 13 grass pollen allergen [Paspalum notatum]

MAWRKEEGAMTMLRALLVVALAVCGAHAAGDKKKAEESSKKGDS PAAAAASGPGGSFDITK
LGASGDGKTDSTKALEEAWASACGGKQKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGN
LLASTDLSQFKANWIEILRVDNLVITGKGKLDGQGSVWVSKNSCAKKYDCKILPNSLVLD
FCNKAEVSGISISIINSKFFHMNVFQCKDVVIKDVTVSAPGDS PNTDGIHMGDSSGVSII
IDT TIGVGDDCISIGPGSTKVNITGVTCGPHGIGISIGSLGRYKDEKDVTDINVKDCTLKKSSN
GLRIKAYEDAKSVLTC SNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVT
FDITGTSSTPEAVSLLCSDSTPCSGITMNNVVKVEY

>accession|CBM42661.1|Allergen group 13 grass pollen allergen [Paspalum notatum]

MAWGAMTMLRALLVVALAVCGAHAAGDKKKAEESSKKGDS PAAAAASGPGGSFDITKLGAS
GDGKTDSTKALEEAWASACGGKQKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLLAS

TDLSQFKANWIEILRVDNLVITGKGKLDGQGSVWSKNNSCAKKYDCKILPNSLVLDFCNK
AEVSGISIIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDTTIGV
GDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSSNGLRI
KAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDIT
GTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42662.1|Allergen group 13 grass pollen allergen
[Paspalum notatum]

MAWRKEEGAMTMLRALVLAALVCGAHAGAKKAEESKKGDSAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKQKQILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQQAQVWSKNNSCAKKYDCKILPNSLVLDFC
NKAEVSGISIIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDTTI
GVGDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKD
ITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42663.1|Allergen group 13 grass pollen allergen
[Paspalum notatum]

MAWRKEEGAMTMLRALVLAALVCGAHAGAKKVEESKKGDSAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKQKQILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQQAQVWSKNNSCAKKYDCKILPNSLVLDFC
NKAEVSGISIIINSKFFHMNVFQCKDVVIKDVTVSAPGDSPTDGIHMGDSSGVSIIIDTTI
GVGDDCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKD
ITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42664.1|Allergen group 13 grass pollen allergen
[Paspalum notatum]

ITGINITGVTCGPGHGISVGSGLGRYKDEKDVTDINVKGCTLKKTSTNGVRIKSYEDAASVL
SASNLYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVKVEYKGTNNKTMAVCNNAKGSSTGCLKELACL

>accession|CBM42665.1|Allergen group 13 grass pollen allergen
[Paspalum notatum]

STGINITGVTCGPGHGISVGSGLGRYKDEKDVTDINVKGCTLKKTSTNGVRIKSYEDAASVL
SASNLYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVKVEYKGTNNKTMAVCNNAKGSSTGCLKELACL

>accession|CBM42666.1|Allergen group 13 grass pollen allergen
[Paspalum notatum]

STKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVKVEYSGSNKTMAVCKNAKGSATGGLKELACF

>accession|CBM42667.1|Allergen group 13 grass pollen allergen
[Paspalum notatum]

STKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSSNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVKVEYSGSNKTMAVCKNAKGSATGGLKELACF

>accession|AEK65120.1|Putative arginine kinase [Amphioctopus
fangsiao]

MAEELFKTLQNAKECHSLLKHLTKERFDKLGKLGKTKFGGTLADCIRSGCKNPDSGVGIY
ASDPDAYTVFAEVLDAVIMDYHKIDKVHHPIDFGDVNNLNIGDLDPGSMIVSTRVRVG
RSHDSFGFPPVLKKDDRIMKMEQVSVEALKSLDGELAGSYFPLANMSADVQQLTEDHFLF

NSDRFLKAASGYDDWPIGRGIYFSENKTFCLCWVNEEDHLRLISMQKGGNLGEVYKRLVS
AINKMEKKNLFAKKDNMGYLTFCPSNLGTTMRASVHIKIPKLSQRSDFKSICDKYNLQAR
GIHGEHTESVCGVYDISNKRMRGLTEYEAVTEMMRGVNEIIREETNST

>accession|2XV9_A|Putative Chain A, The Solution Structure Of
Aba-1a Saturated With Oleic Acid [Ascaris suum]
GSPEFHHTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDAKKE
ATEHLKGGCREILKHVVGEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIAD
FGPACKKIYGVHTS

>accession|AEM89226.1|Putative enolase, partial [Fenneropenaeus
merguiensis]
FTEAMRMGSEVYHHLKAVIKGRFGLDATAVGDGEGFAPNILNNKDALTLIQESIEKAGYT
KQIEIGMDVAASEFYKGENIYDLDFKTANNDGSQKITGDQLRDMYMEFCNEFPVSI

>accession|CCD28287.1|Allergen pollen allergen Phl p 5 [Phleum
pratense]
MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEE
QKLIIEKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFEAEGLSGEPKGAEESSKA
ALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIP
AGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNNAIKASTGGAYESYKFI PALEA
AVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAPAAAATATATS AVGAATGAA
TAAAGGYKV

>accession|3S7E_A|Allergen Chain A, Crystal Structure Of Ara H 1
[Arachis hypogaea]
MSRNNPFYFSPRRFSTRYGNQNGRIRVLQRFQDQSRQFQNLQNHRIVQIEAKPNTLVLPK
HADADNIVLIQQGQATVTVANGNNRKSFNLDDEGHALRIPSGFISYILNRHDNQNLRVAKI
SMPVNTPGQFEDFFPASSRDQSSYLQGF SRNTLEAAFNAEFNEIRRVLLEENAGGEQEER
GQRRWSTRSSENEGVIKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPLDS
NNGFKLFEVDPKKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKG TGNLELV
AVRKEQQQRGRREEEEEDEDEEEEGSNREVRRYTARLKEGDVFI MPAAHPVAINASSELHL
LGFGINAENNRIFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKQKESHFVSAR

>accession|AEQ28167.1|Putative tropomyosin [Anisakis simplex]
MDAIKKKMQAMKIEKDNALDRADAAEGKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSTANSNLEEKQVQEAEEVAALNRRMTLLEEELERAEERLKLATXKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQLKEXQMLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLDELVHEKERYKSISEELDQTFQELSGY

>accession|NP_001238443.1|Putative 2S albumin precursor [Glycine
max]
MTKFTILLISLLFCIAHTCSASKWQHQQDSCRKQLQGVNLT PCEKHIMEKIQGRGDDDD
DDDDNHILRTMRGRINYIRRNEGKDEDEEEEGHMQKCCTEMSELRSPKCQCKALQKIMEN
QSEELKQKQKMEKELINLATMCRFGPMIQCDLSSDD

>accession|AET05730.1|Putative lipid transfer protein isoform a,
partial [Pyrus communis]
AHAITCSQVSSNLAPCINIVRSGGAVPPACNGIKTINGLAN TTPDRQAACNCLKNLAGS
VSGVNPNGNAESLPGKCGVNPYKISTSTNCATVK

>accession|AET05732.1|Putative lipid transfer protein isoform c,
partial [Pyrus communis]
AHAITCSQVSSNLAPCINIVRSGGAVPPACNGIKTINGLAN TTPDRQAACNCLKNLAGS

VSGVNPNGNAESLPGKCGVNVPCIKISTPTNCATVK

>accession|AET05733.1|Putative lipid transfer protein isoform d,
partial [Pyrus communis]
AHAITCSQVTSNLGACIGYVKNNGGVPPACCNGIIRTVNGLARTTADRQTTNCNCLKSLAGS
IKGVNPNNAATLPGKCGVNVPFKISTSTNCATVK

>accession|AEV23867.1|Allergen glutathione S transferase class
delta variant 1 [Periplaneta americana]
MTIDFYYPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPOHTIPTLNDN
GFCLWESRAILSYLADQYKDDSLYPKDAKKRALVDQRLYFDIGTLYHRFGEYYPPIYFA
KQAADPEKMKLEEFLEFLNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK

>accession|AEV41413.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAIFSSNSATSSSLPSRTTSILLVLFIASLSITDAQVGVVGYGMLGNNLPPASQVISLYKQ
ANIKRMRIDPNQAALQALRGSNIQLMLGVPNSDLQSLTNPSNANSWIQRNVRAFWPSVR
FRYIAVGNEISPVNGGTASLAKFVLPAMRNIYNAIRSAGLQDQIKVSTAIMDTLIGNSYP
PSAGAFRGDVRSYLDPIIGFLSSIRSPLLANIYPYFSYAGNPRDISLPYALFTSPSIVVW
DGQRGYKNLFDAMLDALYSALERAGGGSLEVVVSESGWPSAGAFATFDNGRTYLSNLIQ
HVKGGTPKRPGRFIETYLAFAMFDENQKQPEFEKHFGLFFPNKQKYNLNFAGAKKNWDISA
DYNATVLLLKSDI

>accession|AEV57471.1|Allergen thaumatin-like protein 2 [Prunus
persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFEIATG
ISNSVDAPSPWGRFFGRTRCSTDASGKFCATADCGSGQVSCNNGAVPPATLVEITIA
ENGGQDFYDVSVDGFNLPMAVAPQGGTGECKASTCPADVNAVCPAELQVKGSDGSVIAC
KSACLALNQPYCCTPPNDKPETCPPTTEYSKIFKDQCPQAYSAYDDKSSTFTCSARPDY
LITFCP

>accession|B3A0N2.1|Putative RecName: Full=Non-specific lipid-
transfer protein; Short=LTP [Lycium barbarum]
GPLGGCCGGIKKSAAAGISGINYGIAAGLPGKCGVNIPYKISPSTDCSKVQ

>accession|AEX34122.1|Putative 60S acidic ribosomal
phosphoprotein P1 [Penicillium crustosum]
MSTAELACSYAALILADDGIEISADKIQTLLISAANVQEVPIWASIFARALEGKDIKELL
TNVGSAGPASAAPAGAAGAAAPAEKAEKEKEEKEEDEDMGFGLFD

>accession|AEY79726.1|Putative cyclophilin [Daucus carota]
MANPKVFFDMTIGGTPAGKIVMELYADTPKTAENFRALCTGEKGTGKSGKPLHYKSSSF
HRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFERKHTGPGILSMANAGPGTNGSQFF
ICTAKTEWLDGKHVVFGKVVVEGMDVVKAIKVGSGSGKTSKPVAIADCGQC

>accession|AEY79727.1|Putative isoflavone reductase-like protein
[Daucus carota]
MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFVHG
DLYDHGSLVKAIKQVDVVISALGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVRVNA
VEPAKSFAAKALFRRTVEAAGVPPTYVACNFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPEEQVLKNIQESPVPINVLLSISHSAFVKGDQTSFEIEPSYGVVEASALYPDVKYTTVDV
YLSQFV

>accession|AEY79728.1|Putative isoflavone reductase-like protein [Daucus carota]
MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFFVHG
DLYDHGSLVKAIKQVDVVIISTLGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSFAAKAQFRRTVEAAGVPPTYVACDFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPPEQVLKSIQESVPIINVLLSISHSAFVKGDQTSFEVEPSFGVEASALYPDVKYTTVDE
YLSQFV

>accession|CCF72371.1|Putative lipocalin-Can f 6 allergen [Canis familiaris]
MKLLLLCLGLILVHAHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVK
DIEVLSNSSLIFTMHTKVNKCTKISLICNKTEDGGEYDVVHDGYNLFRIIETAYEDYII
FHLNNVNQEQEFQLMELYGRKPDVSPKVKEKFVRYCQGMEIPKENILDLTQVDRCLQARQ
SEAAQVSSAE

>accession|AFA45339.1|Putative arginine kinase [Procambarus clarkii]
MADAATIAKLEEGFKKLEAATDCKSLLKKYLSKSI FDSLKAKKTGLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYS L FAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKFV
ISTRVRCGRSLEGYPFNPCLTEAQYKEMEEKVSS T LSGLEGE LKGTYYP LAGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIYHNDNKTF L VWCNEEDHLRIISMQMGDLG
QVYRRLVSAVNDIEKRVPF SHHDRLGFLTF CPTNLGTTIRASVHIKLPKLAANREKLEEV
AARYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMA

>accession|AFA45340.1|Putative arginine kinase [Scylla paramamosain]
MADAAVIEKLEEGFKKLEAATDCKSLLKKYLT KSVFDQLKGKKTSLGATLLDVIQSGVEN
LDSGVGVYAPDAEAYTLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKFV
ISTRVRCGRSMEGYPFNPCLTEAQYKEMESKVSSTLSNLEGE LKGTYYP L TGMTKD VQQK
LIDDHFLFKEGDRFLQAANACRYWPTGRGIYHNDNKTF L VWCNEEDHLRIISMQMGDLG
QVYRRLVSAVNEIEKRVPF SHHDRLGFLTF CPTNLGTTV RASVHIKLPKLAANREKLEEV
AGKYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMQ

>accession|3SMH_A|Allergen Chain A, Crystal Structure Of Major Peanut Allergen Ara H 1 [Arachis hypogaea]
SRNNPFYFPSRRFSTRYGNQNGRIRVLQRFDQRSRQFQNLQNHRIVQIEAKPNTLVLPKH
ADADNILVIQQGQATVTVANGNNRKSFNLD EGHALRIPSGFISYILNRHDNQNLRVAKIS
MPVNTPGQFEDFFPASSRDQSSYLQGF SRNTLEAAFNAEFNEIRRVLLEENAGGEQEERG
QRRWSTRSSENNEGVIVKSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGE PDLSN
NFGKLFV KPDKKNPQLQDLDMMLTXVEIKEGALVLPHFNSKAMVIVVVKGTGNLELVA
VRKEQQQRGRREEEEDEDEEEEGSNREVRRYTARLKEGDVFI MPAAHPVAINASSELHLL
GFGINAENNRIFLAGDKDNVIDQIEKQAKDLA FPGSGEQVEKLIK NQKESHFVSARP

>accession|P86137.2|Allergen RecName: Full=Non-specific lipid-transfer protein 1; Short=LTP1; Short=nsLTP1; AltName: Allergen=Act d 10.01 [Actinidia deliciosa]
AVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRS LKSMGTGKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>accession|P85204.1|Allergen RecName: Full=Non-specific lipid-transfer protein 1; Short=LTP1; AltName: Allergen=Act c 10 [Actinidia chinensis]
AVSCGQVDTALTPCL

>accession|P85206.1|Allergen RecName: Full=Non-specific lipid-transfer protein 2; Short=LTP2; AltName: Allergen=Act d 10.02 [Actinidia deliciosa]
TVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLSKSMGTGKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>accession|CBL79147.1|Allergen aldolase A [Salmo salar]
MPHAFPFLLTPDQKKELSDIAHKIVAQKKGILAADESTGSVAKRFQSINTENTEENRRLYR
QLLFTADERAGPCIGGVIFFHETLYQKTDAGKTFPQHVKSRGWLVGKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKDGCDFAKWRCVLKITSTTPSRLTIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAAMYKALSDHHVYLEGTLLKPNMVTAGHSC
SHKYTHQDIAMATITALRRTVPPAVPGITFLSGGQSEEEASINLNMNQCPHLPWAITF
SYGRALQASALKAWGGKPKNGKAAQEEFIKRALANSLACQGYVSSGDSAAAGDSLFFVAN
HAY

>accession|CBL79145.1|Allergen enolase [Thunnus albacares]
MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALERDNDKTRYMGK
GVKRAVKYINEFLAPALCNQDVTVIEQEKIDKMLDMDGTENKYKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPEVILPVPFNVINGGSHAGNKLAMQEFMILPVGASSFKD
AMRIGAEVYHNLKKNVIKEKYKDATNVGDEGGFAPNILENKEALKLLKNAIGKAGYTDKI
VIGMDVAASEFYKGGKYDLDFKSPDDPSRYIPSDKLADLYKGFVKDYPVVSIEDPFDQDD
WEAWSKFTASTSIQVVGDDLTVTNPKRIAKGVAEKSCNCLLLKVNQIGSVTESLQACKMA
QSSGWGMVSHRSGETEDTLISDLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKNFRHPI

>accession|CBL79146.1|Allergen enolase [Salmo salar]
MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALERDNDKTRYLGK
GVKRSVKYINEFLAPALCNQDVSVLEQEKVDQLMLDMDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPNVILPVPFNVINGGSHAGNKLAMQEFMTLPVGASTFKE
AMRIGAEVYHNLKKNVIKKNYGQDATNVGDEGGFAPNILENKEALELLKEAIGKAGYTDKI
VIGMDVAASEFYKDGKYDLDFKSPDDPSRYITPDQLGDLYKSFVKDYPVVSIEDPFDQDD
WAAWSKFTAETSISQVVGDDLTVTNPKRIAKGVADKACNCLLLKVNQIGSVTESLQACKMA
QTNGWGMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGDK
AVFAGKNFRHPI

>accession|AFJ68065.1|Allergen Der p 1 variant, partial
[Dermatophagoides pteronyssinus]
EARPSSIKTFEYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDSLDEFK
NRFLMSAEAFEHLKTQFDLNAETNAC SINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFS
GVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVA
REQSCRRPNAQRFGISNYCQIYPPNVNKIREALAQTHTSAIAVIIGIKDLDAFRHYDGRTI
IQRDNGYQPNYHAVNIVGYSNQSVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPY
VVIL

>accession|AFJ68066.1|Allergen Der f 1 variant, partial
[Dermatophagoides farinae]
EARPASIKIFEEFKAFNKNYATVEEEEVARKNFLES LKYVEANKGAINHLSDSLDEFK
NRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSELDRSLRTVTPIRMQGGCGSCWAF
SGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYV
AREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTHTAIAVIIGIKDLRAFQHYDGRTI
IIQHDNGYQPNYHAVNIVGYGSTQGVYWIWRNSWDTTWGDSGYGYFQAGNNLMMIEQYP
YVVIM

>accession|AFJ68067.1|Allergen Der p 2 variant 1, partial
[Dermatophagoides pteronyssinus]

DQVDVKDCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEALFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIRD

>accession|AFJ68070.1|Allergen Der p 2 variant 4, partial
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSETCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>accession|AFJ68072.1|Allergen Der f 2, partial
[Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCI IHRGKPFQLEALFGANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLIGDNGVLACA
IATHGKIRD

>accession|AFJ97274.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVVGYMGGNNLPSVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDKIKVSTAIIDLTLVGNYSY
PPSAGAFRDDVRSYLDPIIGFLSSRSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAFATFDNGRITYLSNLI
QHVKGTPKRPNRAIETYL FAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>accession|AFJ97275.1|Allergen beta-1,3-glucanase [Hevea
brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVVGYMGGNNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RIRYIAVATKLVVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNYSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAFATFDNGRITYLSNLI
QHVKGTPKRPNRAIETYL FAMFDENKKQPEVEKHSGLFFPDKRPKYNLNFGAEKNWDIS
TEHDATILFLKSDM

>accession|3V0R_A|Allergen Chain A, Crystal Structure Of
Alternaria Alternata Allergen Alt A 1 [Alternaria alternata]
MDTASCPVTTEGDYVWKISEFYGRKPEGTYNSLGFNIKATNGGTLDFTC SAQADKLEDH
KWYSCGENSFMDFSFDSRSGLLLKQKVSDDITYVATATLPNYCRAGGNGPKDFVCQGVA
DAYITLVTLPKSS

>accession|AFM77001.1|Putative pathogenesis related protein 5,
partial [Malus x domestica]
LTGFELASKASRSVDASSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPP
ATLVEITIAANGGQDYDVSLVDGFNLPMSVAPQGGTGECKPSSCPANVNAACPAQLQVK
AADGSVISCKSACLAFGDSKYCCTPPNNTPETCPPEYSEIFEKQCPQAYSAYDDKNST
FTCSGGPDYVITF

>accession|CCK33471.1|Putative wheat serine proteinase inhibitor
like antigen [Triticum aestivum]
MSPVVKKPEGRNTDTSDDHNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKIAQVPRVG

>accession|3TSH_A|Allergen Chain A, Crystal Structure Of Phl P 4,

A Grass Pollen Allergen With Glucose Dehydrogenase Activity
[Phleum pratense]
YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIIRNSRWSSPDNVKPLYIITPT
QVSHIQSAVVCGRRHRSVRIRVRSGGHDYEGLSYRSLQPETFVAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLHDKKSMGDDHFWAVRGGGSESFGIVVAWQVKLLPVPPTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRQNSFKPFAEYKSDYVYQFPFKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGWQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|P86360.1|Putative RecName: Full=Allergen Tha p 2;
AltName: Allergen=Tha p 2; Flags: Precursor [Thaumetopoea
pityocampa]
MKLLIFAILIALSSSVPQLSEKAEEAVDLAYQEKNLFDLGSVAGDILSRSGCHVSFGCH
KGYCWAGCGDPTNPWSWGENWCYTTKSYSQSYVQCTQDSECDGCWCKGPCSA

>accession|P86888.1|Allergen RecName: Full=Peamaclein; AltName:
Allergen=Pru p 7 [Prunus persica]
GSSFCDKCGVRCCKAGYQERCLKYCGICCEKCHCVPSGTYGNKDECPYRDLKNSKGNP
KCP

>accession|AFV53352.1|Putative tropomyosin [Oreochromis
mossambicus]
MDAIKKKMQMLKLDKENALDRAEQAESDKKAAEDRSKQLEDDLVALQKCLKGTEDELDKY
SEALKDAQEKLLELAEKIATDAEGEVASLNRRIQLVEEELDRAQERLATALTKLEEAKEAA
DESERGMKVIENRAMKDEEKMELQEIQLKEAKHIAEEADRKYEEVARKLVIIEGDLERTE
ERAELSEGKCELEEEELKTVTNNLKSLEAQAKEYSQKEDKYEEEIKALTDKLEAETRAE
FAERSVAKLEKTIDDLEDELYAQKLKYKAISEELDHALNDMTSI

>accession|BAB21619.2|Putative allergen Gly m Bd 28K [Glycine
max]
MGNKTTLLLLLFLVCHGVATTMTMAFHDDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLK
SHGGRIFYRHMHIGHFISMEPKSLFVPQYLDNLIIFIRRGAKLGFYDDELAERRLKTG
DLYMIPSGSAFYLVNIGEGQRLHVICSIDPSTSLGLETFSFYIGGGANSHSVLSGFEP
ILETAFNESRTVVEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQLKMMQDQE
EDEEEKQTSRSWRKLELTVFGKVNEKIENKDTAGSPASYNLYDDKKADFKNAYGWSKALH
GGEYPPLEPIDIGVLLVKSAGSMLAPHVNPISDEYTIIVLSGYGELHIGYPNGSRAMKTK
IKQGDVFPVPRYFPFCQVASRDGPLEFFGFSTSAKKNKPQFLAGAASLLRTLMPELSAA
FGVSEDTLRAVDAQHEAVILPSAWAAPPENAGKLMEEEPNAIRSFANDVVMDF

>accession|AGA84056.1|Allergen profilin [Arachis hypogaea]
MSWQTYVDDHLLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEPSL
APTGLYLGGTKYMIQGEPTVIRGKKGPGGVTIKKTNQALIIGIYDEPMPGQCNMIVE
KLGDYLIDTGL

>accession|AGC39164.1|Putative kiwellin [Actinidia deliciosa]
MAQLALLLLFLTLISLAPPGASISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHTIC
RGTTPSPQPGGCKPSGTLTCRGSHTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGKMIRITASNGKSVSAKVVDCECDRSHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39165.1|Putative kiwellin [Actinidia deliciosa]
MAQLALLLLFLTLISLAPPGTSISSCNGPCRDLNDCDGLICIKGKCNDDPVGTHTIC

RGTTTSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39166.1|Putative kiwellin [Actinidia deliciosa]
MAQLALLLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
RGTTTSPQPGGCKPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39167.1|Putative kiwellin [Actinidia deliciosa]
MAQLSLLVLSLFLTLISLPPPASISSCNGPCRDLNDCDGLICIEGKCNDPQVGTGTHIC
RGTTTSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39168.1|Putative kiwellin [Actinidia chinensis]
MAQLSLLLLSLFLTLISLPPPASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
RGTTTSPQPGGCKPSGTLTCQGKSHPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLNKNVGVVDITWSMA

>accession|AGC39169.1|Putative kiwellin [Actinidia eriantha]
MAQLSLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
RGTTTSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39170.1|Putative kiwellin [Actinidia eriantha]
MAQLSLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
RGTTTSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39171.1|Putative kiwellin [Actinidia eriantha]
MAQLSLLFLSLFLTLISLAPSGASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
RGTTTSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39172.1|Putative kiwellin [Actinidia arguta]
MAQLTLLLLSLFLTLISLPPPASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
GGTTTSPQPGSCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39173.1|Putative kiwellin [Actinidia arguta]
MAQLTLLLLSLFFTLISLPPPASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
GGTTTSPQPGSCKPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDECDRHHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39174.1|Putative kiwellin [Actinidia arguta]
MAQLTLLLLSLFLTLISLPPPASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTGTHIC
GGTTTSPQPGGCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGGPSECD

ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVDCEDSRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39176.1|Allergen thaumatin-like protein [Actinidia chinensis]

MSTFKSLSLSALLFIAFLFTCARGATFNIINNCPFTVWAAAVPGGGKRLDRGQNWIIINPG
AGTKGARVWARTGCNFDGAGRGKCQTGDCNGLLQCQAFGQPPNTLAEYALNQFNLDFFD
ISLVDGFNVAMEFSPTSGGCTRGIKCTANINEQCPNELRAPGGCNPCTVFKTDQYCCNS
GNCGPTDYSRFFKTRCPDAYSYPKDDQTSTFTCPGGTNYKVVFVCP

>accession|AGC56216.1|Putative triose-phosphate isomerase [Dermatophagoides farinae]

MGRKFFVGGNWKMNNGKTAIKEIVDFLKNGLPLDSNVEVVVGVPAIYLMLCKNILPDNIRV
AAQNCYKVDKGAFTGEISPAMIKDVGAEWVILGHSERNVFGESDQLIGEKVEHALQEG
HVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWFKVVLAYEPVWAIGTGKTASPOQA
QEVHQKLRQCFSENVSPQIAETIRIYGGSVTANNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>accession|AGC56218.1|Putative heat shock protein 70 [Dermatophagoides farinae]

MSKTPAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVGFDTTERLIGDAAKNQVA
MNPSTVFDKRLIGRKFDETTVQADMKHWPFKVIKGNKPAIEVEFKGETKQFIPEEIS
SMVLVKMRETAAYLGGTVNNAVITVPAYFNDSQRQATKDSGLIAGLNVLRIINEPTAAA
IAYGLDKKGGAGERNVLIFFDLGGGTDFVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVN
HFVKEFKRKHKKDLTTNARALRRLRTSCERAKRTLSSAAQTSIEIDSLFEGIDFYTSITR
ARFEELCADLFRSTMEPVERVLRDAKTDKSSVNEIVLVGGSTRIPKIQRLVADFFNKDPN
KSINPDEAIAYGAAVQASILSGDTSKSTNEILLLDVAPLSLGIETAGGVMTALIKRDTT
IPTRSPRLSLPTPTSLVSRFRSTRVSVLAPRTTSLVSSSSPVSPCSSWCSSDRGHFDV
DANGIMNVGAVEKGTGKTNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEAAARIHAKN
GPESYAYSLRNTVNEGKLSISDSKKEKLRLRLTRLSTGSTTTTRPPARRSTTLNRRSSRVL
PTPSFWLPTVVLAVVVPPLVVTPVLVALVVLTRLRSALRSLTKKVFNQVFLFPVLFVDS

>accession|AGC56219.1|Allergen ferritin [Dermatophagoides farinae]

MAANPESTTKTSRVRMNIQINLEFYASYVYQQMAYHFNRDDVALPGFEKFFDVSSKEERE
HAERFMKLNQRGGRIVLDDIHKPQQQDWSGLEAMRAALELEKTVNQALLDLHAVATKH
NDAQFADFIETHYLTEQVEAIKKLADYITNLERCGLGEYLFDRHTLHSS

>accession|B3EWE5.3|Putative RecName: Full=Thaumatococcus
2; AltName: Full=Basic thaumatin-like protein [Manilkara zapota]
ATFDIQNNC

>accession|AGC60020.1|Putative Anisakis 2 allergen [Anisakis pegreffii]

MSDTLYRSPSMAIRSSSTADMGALTSMSVADLGSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLLEESQLENEEDAMNVLK
KHQDVCLDYTEQIEQLQKNSKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVYQLAQOLEE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESARVEAEHKLSLANTEITQWKS
FDAEVALHHEEVEDLRKKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAEQKMKQLYEKAVEQ
KEALARENKQLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEARRDA
EARAQRALAEQVRIEMERLQEKKEEMEALRKSMQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNLANLEAQKTIKKQSEQIIQLQANLEDTQRQLQQTLDQYAL
AQRKISALSAELEECKTALDNAIRARKQVEADLEEAEHVRIISDLTSINSNLTAIKNKLETE

LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALLGGKRVIKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDTADRMLEKLNIOKRQLGEAEAMTMQNLQVRVRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>accession|AGC60026.1|Putative Ani s 12 allergen [Anisakis
pegreffii]
MVKNLPPSVREQCIESQIVIRNCKEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCKTFTTEENCIWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGEEECISKIQKECVDAFGTTPVYAANGAYQMAAPLHRCIENGGWMMCMSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>accession|AGC60027.1|Putative Ani s 12 allergen [Anisakis
pegreffii]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGEEECCLKIQKECVDAFGTTPVTSANGAYQMAAPLHRCIENGGWMMCMSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>accession|AGC60028.1|Putative Ani s 12 allergen [Anisakis
pegreffii]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTPENCIKWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMSKGEEECCLKIQKECVDAFGTTPVTSANGAYQMAAPLHRCIENGGWMMCMSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>accession|AGC60029.1|Putative Ani s 12 allergen [Anisakis
simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGEEECISKIQKECVDAFGTTPVYAANGAYQMAAPLHRCIENGGWMMCMSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>accession|AGC60030.1|Putative Ani s 12 allergen [Anisakis
simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAT
SLRDCIKKGGYMGYCKTFTTEENCIWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMNEGEEECISKIQKECVDAFGTTPVYAANGAYQMAAPLHRCIENGGWMMCMSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQEECVAAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>accession|AGC60031.1|Putative Ani s 12 allergen [Anisakis
simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMNKGEEECISKIQKECVDAFGTTPVYAANGAYQMAAPLHRCIENGGWMMCMSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMITCVKRKMAKGL

>accession|AGC60035.1|Allergen Ani s 1 allergen [Anisakis
simplex]

MDKGPCTQEGGVKPSVAWWHDDKTGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRSGSWMMTILGKSCDDQFCPEDAKCEQGKLFANCK

>accession|AGC60036.1|Allergen Ani s 1 allergen [Anisakis
simplex]

MDKGPCTQEGGVKPSVAWWHDDKSGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRSGSWMMTILGKSCDDQFCPEDAKCEQGKLFANCK

>accession|B3EWS0.1|Putative RecName: Full=Thaumatoligin-like protein
1a; AltName: Full=Acidic thaumatoligin-like protein; AltName:
Full=Beta-1,3-glucanase [Manilkara zapota]
ATFDIVNQCTFT

>accession|CCP19647.1|Allergen profilin allergen [Parietaria
judaica]

MSWQTYVDDHLMCEIEGNHLTAAAILGQDGSVWAQSASFQPKPEEIAAIVKDFEEPGTL
APTGLFLGGAKYMIQGEAGVVIRGKKGSGGVTVKKTGQALVIGIYDEPMAPGQCNMIVE
RLGDYLIETGL

>accession|AGE44125.1|Allergen tropomyosin [Portunus pelagicus]

MDAIIKKMQAMKLEKDDAMDRADTLEQQNKEANIRAEKAEVEVHNLQKRMQOLENDLDQV
QESLLKANTQLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLLEDELVNEKEKYKSTTDELQAFSELSGY

>accession|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]

MADTKILIIIGGTGYIGKFIVEASAKSEHPTFALARESTISDPVKGKIIQGFKNSGVITL
TGDLYDHESLVKAIKQVDVVIISTVGQLQLADQVKIIAAIKEAGNVKRFPSDFGTDVDR
HAVEPAKSSFEIKSQIRRAIEAEGIPYTFVSANYFAGYSLPTLVQPEVTAPPRDKVIILG
DGNKAVFNEENDIGTYTIKAVDDARTLNKILYIKPKNIYSFNELVALWEKKIGKTLEK
IYVPEEQVLKQIQESFPINIVMAINHSFVKGDLTNFKIEPSFGVEASELYPDVKYTTV
EEYLDQFV

>accession|E3SU11.1|Putative RecName: Full=Thaumatoligin-like
protein; AltName: Allergen=Ole e 13; Flags: Precursor [Olea
europaea]

MNFSKNLPLLVLWAIFFAYTHAATFDIVNQCTYTVWAAASPGGRRLDQGSWNINVA
PGTTQARIWGRNTCNFDANGRGQCETGDCNGLLECQYGRPPNTLAEFALNQPNNLDFVD
ISNVDGFNIPLEFSPTTNVCRRLVCNAPIVQQCPSELRTPGGCNNPCTVFNTNEYCCTNG
PGSCGPTPLSRFFKERCPDAYSYPQDDPTSLFTCPAGTNYRVVFCP

>accession|AGG10560.1|Allergen Tyr p 8 allergen [Tyrophagus
putrescentiae]

MSSKPVLYWDIRGLAQPIRLLLAYLDVDYEDKRYQLGANFDRSAWLTEKFNGLDFPNL
PYYIDGNVKSQTLAILRYIGRKYKLTGANEPPELRSVSLVEQQVVDGNQSLSRVAYDPNA
DKLKPDLKTLPLDSVKQLSHFLGNSPFVAGTSITYVDFWLVEYLVKLSVLVPEVFGQFDN
LKKFVERIESLPRVSVYIKAQPKLFNGPMKWNQYA

>accession|XP_004232333.1|Allergen PREDICTED: non-specific lipid-
transfer protein 2 [Solanum lycopersicum (Lycopersicon

esculentum)]
MKMTKVCSEFVAVMLVLMILVCDQFGANEAAATCSASQLSPCLGAIQGGTAPSQDCCARLKNQ
QPCICGFMKDPNLRQYVNSPNARKVAGQCGVSIPSC

>accession|CCU98198.1|Allergen allergen [Malassezia sympodialis
ATCC 42132]
MGVQVISSYDQFKQVTGGDKVVVIDFWATWCGPCKMIGPVFEKISDTPAGDKVGFYKVDV
DEQSQIAQEVGIRAMPTFVFFKNGQKIDTVVGADPSKLAQAAITQHS

>accession|CCU99206.1|Putative allergen [Malassezia sympodialis
ATCC 42132]
MSNVIKKVFNTDKAEAEAGSKVADAPQEAGHKGEGFLHDAKDRLQGFAGHGHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLAPVTRHVHHRHEIEELLREREHHIHQHHIQHHV
QPVVDEHLAEQIHSRVVPQTTVREHANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGGVLSTTRSIEEAGLLNLGNNQRTVEGETYTGGLPLSQ

>accession|CCU99457.1|Putative allergen [Malassezia sympodialis
ATCC 42132]
MSATTGSQAPNTTFTYIPWAPELDSGKVCVGPQTFKAHDRWKGGKVVVVAIPGAFTPVCH
QNHIPGFVEKINELKAKGVDEVVVIAVNDAFVMSGWGVTVGGKDQIVYACDNDLAFSKAL
GGTLDLTSGGMGVRTARYAVVLDLKITFYGMDEGNMGAPEKSSVDAVLAQL

>accession|CCV00099.1|Putative allergen [Malassezia sympodialis
ATCC 42132]
MTEHTLPLPLPYEYNALEPFISADIMMVHGHKHHQTYVNNLNASTKAYNDAVQAQDVLKQM
ELLTAVKFNNGGHNHALFWKTMAPQSQGGQLNDGPLKQAIDKEFGDFEKFAAFTAKA
LGIQSGWCWLGLSKTGLDLVVAKDQDTLTHHP IIGWDGWEHAWYLQYKNDKASYLKQ
WWNVVNWSEAESRYSEGLKASL

>accession|CCU97864.1|Putative allergen [Malassezia sympodialis
ATCC 42132]
MSSVGLDIGNSSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGLKRLIGRTFQDESIQTYEKPFVNAELVDAKGEVGVKVRQNEEHIFSATQLLA
MYLGLKLRDTTQNELGGSGVSDVLSVPIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFAEEFKGYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQGLTKDEIHSVELVGGSSRVPALKERIAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPIKVSWEPAVDVPDEENELV
VFNTNPNPSTKILTFYRKEPFLSDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPVVDPAEAEDAEPKTEKKIVKKLQRKDDL
IVSGIGLLDPTLLAELKEREGQMYAADKLVADTEDRKNAL EYIYDTRSKLDERYATFVQ
SEEKEKLLAMLAESEDWLYTEEGEDATKSAYVSRLETLOKVGAPIHFRWKEHEERPAAA
QLREVVNKYMSVFEENEPEKYDHLSDDDKTKVIEKAATVGKWLDDYMYKQSELPKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>accession|AGI78542.1|Putative ubiquinol-cytochrome c reductase
binding protein-like protein [Dermatophagoides farinae]
MVHLTKTLRFINNPGRKFFYGLQGYNKYGLYDDFYDYTDAAHLEAVRRLPPDLYDQHT
YRLVRSQLEITKQFLPKEQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWINFLSKD

>accession|AGL34967.1|Putative metallothionein type 2 [Coffea
arabica]
MSCCGNCGCGAGCKCSGGCGGCKMYPELSYNTENTAAETLILGVAPPKTAYLEGAGEEAA

AENGGCKCGPDCKCNPCK

>accession|AGL34968.1|Putative metallothionein type 3 [Coffea arabica]
MSDKCGNDCADRSCVKKGSSYAADIVETENTFVETFMMEGGAQNGKCKCGPSCACVN
CTCDN

>accession|AGM48615.1|Putative group 14 major allergen 1 fragment 3, partial [Sarcoptes scabiei type suis]
DLDNAFNPRDGMTKLQVKDRIYDIKLRKREFRYGDLHIEGNENALIKKGDHMSLVDPLT
LNLVTKNDGIVDMTLDLVSPNTKKAALKINSKKYDLHDHGEITVSIFNPRMTWKHHTRKG
DMELNIDADITRKGSLITYSRKEPDDSTKVRYSRQGNQVSMEVDSKLIIEGHANGTLTDGK
IHKVGRESDFEIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMNMKY
DRFAPVKILKLDYDGLNIEKHIDAEYEPSNHYKYFTDGKSKRSKGGYSIKIDGPKKALK
VDVDMPDFKF

>accession|4AUD_B|Allergen Chain B, Crystal Structure Of Alternaria Alternata Major Allergen Alt A 1 [Alternaria alternata]
XSCPVTTEGDYVWKISEFYGRKPEGTYYNLSLGFNIKATNGGTLDFTCSAQADKXEDHKWY
SCGENSFNFSGSDRSGLLLKQKVSDDITYVATATLPNYCRAGGNGPKDFVCQGVADAY
ITLVTLPKSS

>accession|BAN29066.1|Allergen gamma-gliadin, partial [Triticum aestivum]
NMQVDPSSQVWPQQPVPQPHQPFSSQPPQQTFFPQPQQTFPHQPPQQFPQPQQPQQQFLQ
PQQPFPPQQPYPPQQPQQPFPQTQQPQQLFPPQSQQPQQQFSQPQQQFPQPQQPQQSFPQ
QQPPFIQPSLQQQVNPCKNFFLLQOCKPVSLVSSLWSMIWPQSDCQVMRQQCCQQLAQIPQ
QLQCAAIHTIIHSIIMQQEQEQEQQGMHILLPLYQQQQVVGQGLVQGGI IQPQQPAQLE
AIRSLVLQTLPTMCNVYVPPECSI IKAPFSSVVAGIGGQ

>accession|BAN29067.1|Allergen omega-gliadin, partial [Triticum aestivum]
ARELNPSNKEQLQSPQQSFSHQQQPFPQQPYPPQQPYPSQQPYPSQQPFPTPQQQFPQQSQQ
PFTQPQQPTPLQPQQPFPQQPQQPQQPFPQPQQPFPWQPQQPFPQTQQSFPLQPQQPFPQ
QPQQPFPQPQLPFPQQSEQIIPQQPQQPFPQPQQPFPQQPQQPFPQPQQPIPVQPQQSF
PQQSQSQQPFAQPQQLFPELQQP IPQQPQQPFPPLQPQQPFPQQPFPQQPFPQQPQQSFPQQ
PQQPFPQQPFPQQPQQPFPQQPQQPFPPLRPQQPFPQQPQQSQSQSFPQPQPQQPQQPS
ILQPQQPLPQQPQQPFPQQPQQQLSQQPEQTISQQPQQPFPQQPHQPQQPYPPQQPYGSSL
TSIGGQ

>accession|BAN29068.1|Allergen high molecular weight glutenin subunit, partial [Triticum aestivum]
EGEASEQLQCERELQEHSLKACRQVVDQQLRDVSPECQPVGGGPVARQYEQQVVVPPKGG
SFYPGETTPPQQQLQQSILWGIPALLRRYYLSVTSPPQQVSYYPGQASSQRPGQGQQEYYLT
SPQQSGQWQQPGQGQSGYYPTSPQQSGQKQPGYYPTSPWQPEQLQQPTQGQQRQQPGQGQ
QLRQGGQQGQSGQGQPRYYPTSSQQPGQLQQLAQGGQQGQPERGQQGQSGQGQQLGQGQ
QGQQPGQKQQSGQGQGYPI SPQQLGQGQQSGQGQLGYPTSPQQSGQGQSGYYPTSAQ
QPGQLQQSTQEQQLGQEQQDQQSGQRQGQQSGQRQDQQSGQGQPGQRQPGYYTSPQ
QLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQQGQQGQQPEQQGQQGQQRQGEQQGQPGQGQ
QGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQQPAQGQQPGQEQQGQQPGQGQ
QPGQGQPGYYPTSPQQSGQEQQLEQWQQSGQGQPGHYPTSPPLQPGQGQPGYYPTSPQQIG
QGQQPGQLQQPTQGQQGQQPGQGQQGQQPGEGQQGQQPGQGQQPGQGQPGYYPTSLQQSG
QGQQPGQWQQPGQGQPGYYPTSSLQPEQQGQGYPTSPQQPGQGPQPGQWQQSGQGQQGY
YPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQGQQPRQWLQPRQGQQGYPTSP

QQSGQGQQLGQGQQGYPTSPQQSGQGQGYDSPYHVSAEHQAASLKVAKAQQLAAQLPA
MCRLEGGDALSASQ

>accession|BAN29069.1|Putative low molecular weight glutenin
subunit, partial [Triticum aestivum]
ENSHIPGLERPWQQQLPPQQTFFPQQPLFSQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSPFPQQQHQQLVQQQIPVVQPSIL
QQLNPKLFLQQQCSPVAMPQRLARSQMLQQSSCHVMQQQCCQQLPQIPQQSRYEAIRAI
IYSIILQEQQQVQGSIQSQQQPPQLGQCVSQPQQQSQQQLGQQPQQQQLAQGTFQLPHQ
IAQLEVMTSIALRTLPTMCRVNVPLYRTTTTVPPFGVGTGVGGY

>accession|AGR27935.1|Putative putative Pru du 6 allergen,
partial [Prunus dulcis]
DNHIQSEAGVTESWNPSDPQFQLAGVAVVRRRTIEPNGLHLPSYVNAPQFIYIVRGRGVLG
AVFPGCAETFEDSQPQQFQQQQQQQQQFRPSRQEGGQGGQQQFQGEDQLDRHQKIRHIREG
DIIALPAGVAYWSYNNGEQPLVAVSLLDLSNDQNQLDQVPRRFYLAGNPQDEFNPQQQ

>accession|AGS80276.1|Putative manganese superoxide dismutase
[Alternaria alternata]
MELHHSKHHQTYITNLNGLLKTQAEAVSTSDITSQVSIQQGIKFNAGGHINHSLFWQNLA
PASSNEAKISAAPELVKQIQATWGEDDKFKEAFSAALLGIQGGWGLIKTDMGKEQRLS
IVTTKDQDPVVGKGEVPIFGVDMWEHAYYLYQYQNGKAAAYVKNIWNVINWKTAEERYLGSR
ADAFSVLKASI

>accession|AGT20779.1|Putative hemocyanin [Fenneropenaeus
merguiensis]
MRVLVVLGLIAAAAFQVVSADVQKQKDVLYLLHRIYGDIQDADLLATANSFDPAGGSYS
GGAAVQRLKGLNDGRILLEQKHWFSLFNTRHRNEALLFDVLIHSSDWATFVGNAAFRRQ
KINEGEFVYALYVAVIHSPLTEDVVLPLYEITPHLFTNSEVIEAAYRAKQKQTPGKFES
TFTGTCKNPEQRVAYFGEDIGLNTHHVTWHMEFPFWWDDEYGHHLDRKGENFFVHHQLT
VRFDAERLSNYLDPVGELHWHYKPIVDGFAPHTTYKYGGQFPARPDNVKFEDVDDVARIRD
MVIVESRIRDAIAHGYYIDSHGQIDISNEKGIDILGDVIESSLYSPNVQYYGALHNTAH
IVLGRQGDPHGKFDLPPGVLEHFETATRDPSSFFRLHKYMDNIFKEHKDSLPPYTKADLEF
SGVSISEVNVVGELETYFEDFEYNLINAVIDDAEGIPDVIDISTYVPRLNHKEFTFKIDIEN
GGSPRLATVRIFAWPHKDNNGIEFTFDEGRWNAIELDKFWVSLAGGKNSIERKSTESSVT
VPDVPSIDTLFAKTAAGGDGLSEFASATGLPNRFLLPKGNKGLEFDLVVAVTDGDADAA
VPDLHLNNTKYNHYGANGVYPDKRPHGYPLDRRVPDERVFEELPNFKHIQVKVFNHGEHII
S

>accession|AGT28425.1|Allergen odorant-binding protein, partial
[Phodopus sungorus]
NDYAELEGKWDITIAIAADNDAKIKEEGPLRLYVRELYCNEDCSEMEVTFYVNANNQCSKT
TVIGYKQADGTYRTQFEGDNRFQPVYATPENIVFTSKNVDRAGQETNLIFVVGKSQPLTP
EQHEKLVFAHENNIPEENIHNVLATDTCPK

>accession|AGW21344.1|Allergen lipid transfer protein [Prunus
persica]
MAYSAMTKLALVVALCMVSVPIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNAAVLPGKCGVSIPYKISASTNCATVK

>accession|CAA61943.2|Putative profilin, partial [Triticum
aestivum]
MSWQTYVDDHLCCEIDGQHLTSAAAILGHDGSVWTESPNFPKFKPEEYIAGIVKDFEEPGHL
APTGLFLGGTKYMIQGEPEGVVIRGKKGTTGKITIKKTGMALILGIYDEPMTPGQC�NLVVE
RLGDYLIDQGY

>accession|CAA61944.2|Putative profilin, partial [Triticum aestivum]
MSWQAYVDDHLCCEIDGQHLTSAAILGHDGSVWAESPFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMIQGEPEGVVIRGKKGTTGGITIKKTGMALILGIYDEPMPGQC�NLVVE
RLGDYLDIDQGY

>accession|CAA61945.2|Putative profilin, partial [Triticum aestivum]
MSWKAYVDDHLCCEIDGQNLTSAAILGHDGSVWAQSPNFPQFKPEENAGIVKDFEEPGHL
APTGLFLGGTKYMIQGEPEGVVIRGKKGTTGGITIKKTGMALILGIYDEPMPGQC�NLVVE
RLGDYLDIDQGY

>accession|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

>accession|4B9R_A|Allergen Chain A, Crystal Structure Of The Major Birch Pollen Allergen Bet V 1.0101 (isoform A) Nitrated In Vitro With Tetranitromethan. [Betula pendula]
GVFNXETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPPFKXVKDRVDEVDHTNFKYNXSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESXLLAHSDAYN

>accession|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
FGEESHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLVSAPHGGTIIKTT
SKYHTKGDVEIKEEHVKAGKEKAAHLFKLIEGYLKDHPSEYN

>accession|AHA36627.1|Allergen Cor a 9 allergen [Corylus avellana]
MAKLILVSFSLCLLVLFNGCLGIDVGLRRQQQRHFGEENLDRLNALEPTNRIEAEAGQIE
SWDHNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQQSQQGQGGQSQRSEQDRHQKIRYFQEGDIIALPAGVAHWCYNDGDSPPVAVSLLHT
NNYANQLDENPRHFYLAGNPDEHQRQGGQQQFGQRRRQQQHSRGKEGEQEQQGEGNNVFS
GFDAEFLADAFNVDVDTARRLQSNQDKRRNIVKVEGRLQMRPERSRQEWERQERQERES
EQERERQRRQGGGRDVGFEETICSLRLMENIGSRSRADIYTEQVGRINTVNSNTLPVL
RWLQLSAERGLQREGLYVPHWNLNAHSVVYAIRGRARVQVDDNGNTVFDDELROGQVL
TIPQNFVAKRAESEGFVAVFKTNDNAQISPLAGRTSAIRALPDDVLANAFQISREEAR
RLKYNRQETTLARSSSRSSSERMRRRSESEGRAEA

>accession|AHA85706.1|Putative tropomyosin [Macrobrachium rosenbergii]
MDAIIKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV
QEALLKANQHLEEKDALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|AHB19225.1|Putative non specific lipid transfer protein 1C [Punica granatum]

MASSGFLRLAGFVLVCMVAFASTVAEAGITCGQVSSSLAGCIQYARGNGAGPVPQACCNGI
RSLNSAAKTTTPDRQAACRCLKSLASSISGINYGLVAGAPGKCGVSIPIYKIAPSTNCDNVK

>accession|AHB19226.1|Putative non specific lipid transfer
protein 1B [Punica granatum]
MASKRFLNNLVPALFLCMVVAASVVESAVTCGQVTSSTLTPCIPYARGVVAAPSAACCSGV
RSLNNAKTTTPDRQTACNCLKVIARSITGINYGRVGLPGKCGVSIPIYKISPSTDCSRVK

>accession|AHB19227.1|Putative non specific lipid transfer
protein 1A [Punica granatum]
MTGSGFLFKLACAVFAVALVAAPIATEAAVTCGQVASSLAPCIPYARSAGGAVPPACCSGI
KTLDMARTTPDRQATCKCLKSASTSISGINYGLVASLPAKCGVNIPYKISPSTDCARVK

>accession|4BK6_B|Allergen Chain B, Crystal Structure Of A
Dimeric Variant Of Bet V 1 [Betula pendula]
GVFNCETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|4BK7_A|Allergen Chain A, Crystal Structure Of A
Variant Of The Major Birch Pollen Allergen Bet V 1 [Betula
pendula]
GVFNFETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|4BKD_A|Allergen Chain A, Crystal Structure Of An
Unusually Linked Dimeric Variant Of Bet V 1 (b) [Betula pendula]
GVFNXETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|AHC08073.1|Putative PR10 protein [Solanum
lycopersicum (Lycopersicon esculentum)]
MGVNTYTYESTTTISPTRLFKALVLDLDFNLVPKLLSQHVKNNETIEGDGGVGSIKQMNFB
EGGPIKYLKHKIHHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGCYKTTTE
YHTKGDHVSEEEHNVGRERIMNISKAVEAYLLANPSVYA

>accession|AHC08074.1|Putative PR10 protein [Solanum
lycopersicum (Lycopersicon esculentum)]
MGVNTFTHESTTTIAPTRLFKGLVLDLDFSLVPKLLSHDVKSIEIVEGDGGAGSIKQMNFB
EGGPIKYLKHKIHHVIDDKNLVTKYSLIEGDVLGDKLESIAVDVKFEAAGDGGCVCKTTTE
YHTKGDHVSEEEHNVGKGAIDLKFAIEAYLLANPSVYA

>accession|4BKC_A|Allergen Chain A, Crystal Structure Of A
Unusually Linked Dimeric Variant Of Bet V 1 [Betula pendula]
GVFNXCETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|AHC94806.1|Putative allergen Der f 21
[Dermatophagoides farinae]
MKFIIFCAIVMAVSVSGFIVDVTEDKWRNAFDHMLMEEFEEKMDQIEHGLMLLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETA VSTIEILVK
DLAELAKKVKAVKSDD

>accession|CCK33472.1|Putative lipid transfer protein precursor, partial (chloroplast) [Cannabis sativa]
ITCGQVASSLAPCLSYLKVGGAVPDGCCNDIKSLSGAAKTPADRQAACKCLKSAASSIKG
VNFNLASGLPGKCGVSIPYKISPSTDCSSVK

>accession|CCW27997.1|Putative serine protease inhibitor [Hevea brasiliensis]
MASQCPVKDAWPELIGTNGDIAAGIETENANVKAIVLKKGSPMTMEYNLCRVLVFDND
RVVTQAPAIG

>accession|AHF71027.1|Allergen glutathione S-transferase [Betula pendula]
MADASVKEHLPTPLDATSNDPPPIFDGTTRLYTCYTCPFAQRVWITRNYKGLQEIKLVPI
NLQNRPAWYKEKVVYPENKVPALHNGKVIGESLDLIKVDINFEGPSLLPNDPAKKAF
ELVAYSDFNKTVFTSFKGDVPKEAGPAFDHLEKALHKFDDGPFPLGQFSAVDIVYIPFV
ERFQIFLLDALKYDITAGRPKLAKWIEELNKIDAYKPTKTDPKELVEFYKARFAAQQ

>accession|P86980.1|Putative RecName: Full=Fructose-bisphosphate aldolase A; AltName: Full=Muscle-type aldolase; AltName: Allergen=Gad m 3.0101 [Gadus morhua]
PHAYPFLSPEQKKEL

>accession|P86979.1|Allergen RecName: Full=Fructose-bisphosphate aldolase A; AltName: Full=Muscle-type aldolase; AltName: Allergen=Thu a 3.0101 [Thunnus albacares]
PHAFPFLTPEQKKELSDIAHKIVAPGKILAADESTG

>accession|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

>accession|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

>accession|P0DMB4.1|Allergen RecName: Full=Phospholipase A1 1; AltName: Full=Vespapase; AltName: Allergen=Dol Ves a 1.01; Flags: Precursor [Vespa affinis]
MMNLKYLFFCLVQALHYCYAYGDPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNLVLIDWRVAAC
TNEMAGVKLAYSYAASNTRLVGNVYIATVTKMLVQQYNVPMANIRLIGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNGYNQPGCLPIIGETCSHTRAVKYFTECIRHECCLIGVPQSKNPQPVSKCTRNEC
VCVGLNAKTYPKTGSFYVPVESKAPYCNKKGKII

>accession|P0DMB5.1|Allergen RecName: Full=Phospholipase A1 2; AltName: Full=Vespapase; AltName: Allergen=Dol Ves a 1.02; Flags: Precursor [Vespa affinis]
MMNLKYLFFCLVQALHYCYAYGDPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT

LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNLVLIDWRVAAC
TNEMAGVKLAYYSYAASNTRLVGNVIATVTKMLVQQYNVPMANIRLVGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNGYNQPGCGLPIIGETCSHTRAVKYFTECIRHECCLIGVPQSKNPQPVSKCTRNO
VCVGLNAKTYPKTGSFYVPVESKAPYCNNKGI

>accession|A4GFC3.1|Putative RecName: Full=Profilin-3; AltName:
Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea
europaea]
MSWQAYVYEHLMCEIESHHLSSAAILGHDGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>accession|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]
MSWQAYVDEHLMCDIDGQQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVVGIIYEEPVTGQCNMV
VERLGDYLLEQGL

>accession|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]
MSWQTYVDEHLMCDIDGQQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVVGIIYEEPVTGQCNMV
VERLGDYLIDQGL

>accession|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]
MSWQAYVDEHLMCEIEGHHLASAAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMIQGEPEGVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCDMVVG
RLGDYLLEQGL

>accession|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]
MSWQAYVDEHLMCDIDGQQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVVGIIYEEPVTGQCNMV
VERLGDYLVEQGL

>accession|A4GFC0.1|Putative RecName: Full=Profilin-3; AltName:
Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea
europaea]
MSWQTYVDEHLMCEIEGLHLASTAIIGHAGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMIQGEPEGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>accession|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]
MSWQAYVDEHLMCDIDGQQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVVGIIYEEPVTGQCNMV
VERLGDYLAQGL

>accession|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]
MSWQAYVDEHLMCEIDGHLSAAAIIIGHDGSVWAQSSTFPQFKPEEIAAIKDFDEPGSL
APTGLHLGGIKYMIQGESGAVIRGKKGAGGITVKKTSQALIFGIYDEPLTPGQCNMIVE
RLGDYLLKQGL

>accession|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]
MSWQTYVDEHLMCDIDGQQLAASAIIVGHDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>accession|BAO50870.1|Putative 13S globulin [Fagopyrum
esculentum]
MLLGVLLCIMVSLAASETRSRGSSTMRARQCRLDQLTSSQPNQKIQSEGGTIEVWDEEED
QFQCAGVAAMRVTVQPDLSLPSYSSPRLVYVEQEGVFGLSLPGCPETYQSRGMEMRG
DEEEEGFESGRMTDAHQPTRRVKGDVVALPQGTVHWC FNDGQEDLVVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGSKEGKSQKLNFNNILSAFETKLLAEALGTEEETVRKMQESD
ERGP IVKARKNMRQMVTPPRFGREQDEDETNGLEESFCNMRFRHNLGPRTEADIASRQAG
RIHSVDQNKLP ILEFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQMQUIVDDNGQ
TVLDDRVSSEGSMMVVIQFYISTCRAGR DGLEYSFETTANPMSSPLNGHASVFKGMP IPV
LSNSYQISPRAYELKQTRSHEHGLFSPFGGRS

>accession|BAO50872.1|Putative 13S globulin [Fagopyrum
esculentum]
MLLGVLLCIMVSLAASETRTRGSSTMRARQCRLDQLTSSQPNQKIRSEGGTIEVWDEEED
QFQCAGVAAMRVTVQPDLSLPSYSSPRLVYVEQEGVFGLSLPGCPETYQSRGMEMRG
DEEEEGFESGRMTDAHQPTRRVKGDVVALPQGTVHWC FNDGQEDLVVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGSKEGKSQKLNFNNILSAFETKLLAEALGTEEETVRKMQESD
ERGP IVKARKNMRQMVTPPRFGREQDEDETNGLEESFCNMRFRHNLGPRTEADIASRQAG
RIHSVDQNKLP ILEFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQMQUIVDDNGQ
TVLDDRVSSEGSMMVVIQFYISTCRAGR DGLEYSFETTANPMSSPLNGHASVFKGMP IPV
LSNSYQISPRAYELKQTRSHEHGLFSPFGGRS

>accession|AHL24658.1|Allergen Sal k 4.03 allergen [Salsola
kali]
MSWQAYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMIQSEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTPGQCNMI
VERLGDYLIEQGL

>accession|AHL24660.1|Putative Fra e 2.01 allergen [Fraxinus
excelsior]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIIVGHDSVWAQSATFPQFKPEEINGITTDNFEP
GHLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPITPGQCNM
VVERLGDYLIDQGL

>accession|AHL24661.1|Putative Fra e 3.01 allergen [Fraxinus
excelsior]
MADDPQEVAQLERIFKRLDANGDGKISSSELGETLKTLSITPDEIQRMMAEIDTDGDGF
ISYEEFTDFARANRGLVKDVAKIF

>accession|AHM25035.1|Putative icarapin variant 8 precursor,
partial [Apis mellifera carnica]

FPGAHDEDSKEERMPPAPNLQGVWKASRISTTRYRRTKEMY

>accession|AHM25036.1|Putative icarapin variant 9 precursor,
partial [Apis mellifera carnica]
FPGAHDEDSKERTLPLPPRSSMDTW

>accession|AHM25037.1|Putative icarapin variant 10 precursor,
partial [Apis mellifera carnica]
FPGAHDEDSKEERKNVDTW

>accession|AHM25038.1|Putative icarapin variant 11 precursor,
partial [Apis mellifera carnica]
FPGAHDEDSKVL

>accession|AHW81906.1|Putative 18 kDa winter accumulating protein
[Morus alba var. atropurpurea]
MGVFTFDDEFSTVAPARFFKAAVLDADNLFPKVAPQAAKSAETVEGNNGPGTVKKITLP
DGKYVKQRLLSDHDNFTYGHSSIEGDVLSADIEKISHVTKFVASSSGGSIKVTTFHT
VGNAPVDEAKAKEGKEKAEGFLFKLVEGYLEANPSAYN

>accession|AHY02994.1|Putative transaldolase [Fusarium
proliferatum]
MSSSLEQLKATGTTVSDSGDFVSIKGYKPDATTNPSLILAASKKAHEYAKLIDVAIDYA
KQKGGSIDQQVDDALDRLLVEFGKEILKIIPGKVSTEVDAARYSFDTEASVKNALHLELY
GEQGISKDRILIKIAATWEGIKAAEILQRDHGINTNLTLMFSLVQAIGAAEAGAYLISPF
VGRILDWFKASTKKEYSKEEDPGVQSVKTIFFNYKKGYNITVMGASFRNTGEITELAGC
DYLTISPNNLEDDLNSNEPVPKLLDASQAASLDIEKKSINDEALFRFDFNEDQMAVEKL
REGISKFAADAVTLKSILKEKLA

>accession|AHY24177.1|Putative profilin, partial [Prosopis
juliflora]
MSWQTYVDDHLMCEIEGTNNHLSAAAILGVDGSSWAQSASFPQFKPDEISAVVKDFDGP
TLAPTGLHLGGTKYMIQGEPPQVIRGKKGPGGICVKKTGQALIIGIYDEPVTPGQCNI
VERLGDYLVEQGM

>accession|2MC9_A|Allergen Chain A, Cat R 1 [Catharanthus roseus]
GSFTGSMNPVRVFFDMSVGGQPAGRIVMELFADTTTPRTAENFRALCTGEKGTGRSGKPLH
YKDSSFHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPNT
NGSQFFICTAKTEWLDGKHVVFQVVEGMDVVKAIKVGSSSGRTAKKVVEDCGQLS

>accession|4BTZ_A|Allergen Chain A, Crystal Structure Of
Peroxynitrite Treated Major Birch Pollen Allergen Bet V 1.0101
(isoform A) [Betula pendula]
GVFNXETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISVENIEGNNGPGTIKKISFPE
GFPPFKXVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKX
HTKGDHEVKAQVQKASKEMGETLLRAVESXLLAHS DAYN

>accession|G5DC91.2|Putative RecName: Full=Thaumatococcus
1; AltName: Full=Acidic thaumatococcus-like protein; AltName:
Full=Beta-1,3-glucanase; AltName: Full=Thaumatococcus-like protein 1b
[Manilkara zapota]
ATFDVVNQCTFTVWAGASPGGGKQLDQGTWTITVAPGSTKARIWGRGTGCNFDANGQKGC
QTGDCNGLLQCQGYGSPNTLAEFSLNQPNNDYVDISLVDGFNIPMDFSPPAAAGVCKDI
RCATDITAQCPAELQAPGGCNPCTVYKTNEYCCTNGQGTGCPALSKFFKDRCPDAYS
PQDDPTSLFTCPAGTNYKVVFCPNLDA

>accession|KEY78748.1|Putative allergen Asp F7 [Aspergillus fumigatus var. RP-2014]
MAPIFKSLALVSALFAAIISSAAPVNLDKREVDVVWTTVTTVVWTTIDVTTTTIYPTPQAPT
PPVVESTPTPTPSAAPEQAETSTQPETTKSQPTQPSVATFIPVAAAAAADSAAAPVP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSNGSTKAASSGYSGPCSKGSPCVGQLTYD
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITTYNGITKTATVVDDKCMGCK
PTDLASRHLFGELADFSAGRIDGMSWYFN

>accession|KEY81716.1|Allergen allergen Asp F4 [Aspergillus fumigatus var. RP-2014]
MQLKNSMLLLTALAAGSSVARLHGHERHLHHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNAVAAAAASTPEPSSSHSDSSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFYKGNVKGKWPWSNIIIEVSPENAKKYKHVAQFVGSDDPWTVVFWNKIG
PDGGLTGWYGNLTLHLEAGETKYVAFDENSQGAWGAAGDELPKDQFGGYSCTWGEFD
FDSKINHGWSGDVSAIQEAENAHHEVQGMKICNHAGELCSIIISHGLSKVIDAYTADLAGV
DGIGGKVVPGPTRLVNLNDYKE

>accession|AIL01316.1|Putative group 1 allergen Sor h 1.0102 [Sorghum halepense]
MGNMMSWSMQVALVVALAFLVGGAWCGPPKVAPGKNITATYGSWLEAKATWYGKPTGA
GPDDNGGACGYKDVNKAPFNSMGACGNLPIFKDGLGCGSCFEIKCDKPAECSGEAVVHI
TDMNYEQIAAYHFDLAGTAFGAMAKKGEEELRKAIGIDMKFRRVKCKYGEKVTFFHVEKG
SNPNYLALLVKYVDGDGDVVGVDIKEKGGDAYQPLKHSWGAIWKRKDSKPIKFPVTVQIT
TEGGTKTAYEDVIPEGWKADTTYTAK

>accession|AIL01317.1|Putative Sor h 1.0200 [Sorghum halepense]
MGLSLANKIVAMAVALAALVTGGSCAPKKFPPGPNITNYNGQWLSARATWYGQPNGAGPD
DNGGACGIKNVNLPPYNGFTACGNVPIFKDGGKCGSCYEVRCKEMPECSGNPITVFITDM
NYEPIAPYHFDFSGKAFGSLAKPGLNDKLRHCGIMNVEFRRVRCKLGGKIMFHVEKGSNP
NYLAVLVKNVADDGNIIVLMELEDKASPGFKPMKQSWGAVWRFDTPKPKVKGPFISIRLTSES
GKKLVAPNVIPATWKPDTLYNSNIQF

>accession|AIL01320.1|Putative group 13 allergen Sor h 13.01 [Sorghum halepense]
MALGSNAMRVFFLLAMVCAHAAGKAAPKEKEKGGKDDKSGGAPAEAPSGSAGGSDISKL
GAKGDGKTSTKALNEAWAACGKEGPQTLMIKGDYLTGPLNFSGPCKGSVTIQLDGNL
LGTDLDSAYKTNWIEIEHVDNLVISGKGTLDGQKQVWDNNKCAQKYDCKILPNSLVLDY
VNNGEVSGITLLNAKFFHMNVFQCKGVTIKDVTVTAPGDSPTDGIHIGDSSKVTITGTT
IGVGDDCISIGPGSTGINVTGVTCPGPHGISVGLGRYKDEKDVTDINVKDCTLKKTNSG
VRIKSYEDAACVITASKLHYENIAMDDVANPIIIDMKYCPNKICTAKGDSKVTVKDVTFK
NITGTSSTPEAVSLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELACF

>accession|AIL01321.1|Putative group 13 allergen Sor h 13.02 [Sorghum halepense]
MACTGNAMRAFFLLAFVCAAHAGKDAPAKDGAKAASGPGGSFDISKLGASGDGKDKSTK
AVQEAWTSACGGTGKQTIILIPKGDYLVGPLNFTGPKGDVTIQVDGNLLATDLSQYKGN
WIEILRVDNLVITGKGKLDGQGPVWSKNSCAKKYDCKILPNSLVLDYVNNGEVSGITLL
NAKFFHMNVFQCKGVTIKDVTVTAPGDSPTDGIHIGDSSKVTITGTTIGVGDDCISIGP
GSTGINVTGVTCPGPHGISVGLGRYKDEKDVTDINVKDCTLKKTNSGVRIKSYEDAACV
ITASKLHYENIAMDDVANPIIIDMKYCPNKICTAKGDSKVTVKDVTFKNITGTSSTPEAV
SLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELACF

>accession|AIO08848.1|Putative Der f 28 allergen

[Dermatophagoides farinae]

MPSKTLKAPAIGIDLGTTYSCVGVFQNGSVEIIANDQGNRTTPSYVAFNDTERLIGDAAK
NQVSMNPNTNIFDAKRLIGRRFDESSVKSDMKHWPFKVVSESGKPKLEVEFKGERKRFWP
EEISAMVLTKMKETAAYLQKVTDVVITVPAYFNDSQRQATKDAGVIAGLNLVLRINEP
TAAAIAYGLDKKGGGKENVLIFDLGGGTFDVSVLTDNGIFEVKSTAGDTHLGGEDFDNR
LVNHFVQEFKRKFKGKDIMSINKRALRRLRTSCERAKRTLSSSTQTSIEIDSLHEGIDFYST
ITRARFEELCSDLFRSTLEPVEKALRDAKLDKSKIDEIVLVGGSTRIPKIQKLLSDFNG
KELNKSINPDEAVAYGAAVQAAILTGDNSNNVKDLLLLDVAPLSLGIETAGGVMTTLIK
NTTIPTKQTQFTTYADNQPAVTIQVYEGERAMTKDNNRLGTFDLTGIPAPRGVPPQIEV
TFDVEDANGILNVSAVDKSTGRQNKITITNDKGRLSKADIEKMQEAEQYREDDERQRERI
AAKNQLEAYAFQKSTMEEEAVKSKLSEEDRKTVLNKVDETLRWLDSNQLADKEEFHRQ
KEIENACRPIMMKIYQQQQQHHHPGANGSCGSNAYPGYNGFKSNNDGPVVEEVN

>accession|AI008850.1|Putative Der f 20 allergen, partial

[Dermatophagoides farinae]

MVDQAVIDKLEAGFQKLQSSAECHSLLKKYLTRNVLDACKGRKTGMGATLVDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPVIEDYHKGFKPTDKHPQTDGFDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYPFNPCLTEAQYKEMEEKVKGQLNSFEGELKGTYYPLLGMDKATQQQ
LIDDHFLFKEGDRFLQAANACRFWVPGCGIFHNDNKTFLIWVNEEDHLRIISMQKGGDLK
QVFSRLINGVNHIEKKLPFSRDDRLGFLTFCTNLGTTIRASVHIKLPKLAADRKKLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRMRGLTEYQAVKEMQDGI LELIKIEKSM

>accession|AI008851.1|Allergen Der f 27 allergen

[Dermatophagoides farinae]

MKFFLLSFVLMIVAATATYAAHVSGSRDNNNNKPVPAEGFAKASNEFGFHLLKEVIQHR
SSSGSRGSSENVLFSPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNGGEYQTVAN
SVKQIQNQIKQSDQSNQFDWGNMLMVDQQIPVKDQYKKIIEQYYDGQVMSVDFRKEKSNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGHH
GQYKQNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPREERNYDLDKIRQSIN
STFVDEIVGQITGGQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHKAKLILNEQGTEAGAGTYIQMAVLSALETSHTFRFDHPFMYFIRHLPTGQILF
LGEIHDF

>accession|AI008853.1|Allergen Der f 7 allergen

[Dermatophagoides farinae]

MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEKSETIDPMKVPDHTDKFER
HVGILDFKGEAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPNTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAFQDTRKEMTKVLAPAFKRELEKN

>accession|AI008860.1|Putative Der f 25 allergen

[Dermatophagoides farinae]

MVRKFFVGGNWKMNNGSRATNEDLIKTLNGLDPLDNTDVVVGVPSPYMAEVRQKLPKTIGV
AAQNCYKVPKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGESDQLIGEKVEHALQEG
HVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWSKVVLAYEPVWAIGTGKTASPQQA
QEVHQKLRQWFSENVSPQIAETIRIYGGSVTANNAKELASQADVDFLVGGASLKPEFV
QIVNARQ

>accession|AI008864.1|Allergen Der f 11 allergen

[Dermatophagoides farinae]

MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLGERLEEAEGSSESVTEMNKKRDSSELAKLRKLLLEDVHIESEETAHHLRQKH
QAAIQEMQDQLDQLQKAKNKSDKEKQKQFAEVFELLAQLETANKEKLTALKNVEKLEYTV
HELNIKIEEINRTVIELTSHKQRLSQENTELIKEVHEVKLQLDNANHLKTQIAQQLEDTR
HRLEEEERKRASLENHAHTLEVELESKLVQLDEESEARLELERQLTKANGDAASWKSKEYE

AELQAHADVEVEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
AHAQQLEKRVAQLEKINLDLKNKLEEVTMLMEQAQKELRVKIAELQKLOHEYEKLRDQRD
QLARENKKLTDLLAEAKSQLNDAHRRRIHEQEIEIKRLENERDELSSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTETIARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITAELOAHYDEVHRQLQQAQVLDQLGVT
QRRCQALQAELEEMRIALEQANRAKRQAEQLHEEAVVRVNELTTINVNLASAKSKLESEF
SALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLQEVRTLH
VRIEEVEANALAGGKRVIKLESRI RDVEIEVEEERRRHAETDKMLRKKDHRVKELLLQN
EEDHKQIQLLQEMTDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAE
SNLSFIRAKHRSWVTTSQVPGGTRQVFTTQEEETNY

>accession|AI008866.1|Putative Der f 29 allergen
[Dermatophagoides farinae]
MSWQSYVDNQICQHVDCTLAANIQDGSVWAKFEKDDKKINPKELKTIADTIRQNPSGF
LETGIHIGGEKYICIQADNQLVRGRRGSSALCIVATNTCLLAAATVDGFPFQQLNNVIEK
LGDYLRSNYY

>accession|AIS82657.1|Putative aspartyl endopeptidase [Rhizopus
oryzae]
MKFFALSIVVSAAFSVFTDAAITKIPIKKVHETATEKLSRYSHTGEYLTQKYFNSQRNNQ
PMEFTFKLNPDGSANHGVPVLSNYLNAQYYGEIEIGTPPQPFTVVFDTGSSNLWVPSTHCTS
IACFLHKRYDSASSRITYSENGTEFAIQYGTGSLEGFISQDTLSVGGIQVEDQGFESTKE
PGLTFAFAKFDGIFGLGYDTISVKHTIPPFYHVMVNRDLVDEPLFSFWLNDANKDQDNGGE
LIFGGVDEDHFEGDIHWSDVRRKGYWEITMENIKFGDDYVDIDPVGAAIDTGSSLLVAPT
TVAALINKELGAENWAGQYVVDCKVPSLPEFCFVFNGKDFCLEGKDYVLEVQGCISG
FMGMDIPEPAGPLWIVGDVFLRKFYSVYDLGNRRVGLAPSK

>accession|2MFK_A|Allergen Chain A, Nmr Solution Structure Of
Chitin-binding Domain From Dust Mite Group Xii Allergen Blo T 12
[Blomia tropicalis]
GPLGSDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICKSKSGSLWYITVMPCSIGTKFDP
ISRNCVLDN

>accession|AJE61290.1|Allergen Pru p 1.0201 [Prunus persica]
MGVFTYSDESTSVIPPRLFKALVLEADTLIPKIA PQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYNYTLVEGDALSDKVEKITYEIKLVASADGGSIIKSTSN
YHTKGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>accession|AJE61291.1|Allergen Pru p 1.0301 [Prunus persica]
MGVFTYETEFTSVIPPEKLFKAFILDADNLIPKIAPTAVKDTEILEGDGGVGTIKKVTFG
EGSQYGYVKHRIDGIDKDNLTYSYTLIEGDALSDVIEKIVYDIKLVASPNGGSIVKTISH
YHTKGDVEIKEEQVKAGKEKAAGLFLVVEGYLLANPDAYN

>accession|CEJ95862.1|Putative albumin, partial [Pinus pinea]
CRDYLRQRREQPSEERRCEELERMSPQCRCRAIQVLDQSQSYDSITDDLDFMDSEAAPNQR
RRRRESRGREEEEEAERAAAYLPETCNVRQPPRRCDVQRRSRYFTSGTDF

>accession|AJ053282.1|Putative chymotrypsin-like protein
[Blattella germanica]
MQYCAVLFFAAAVACAYGAELAALDPSTRVVGTTNAATGEFPPFIVSLRSTSNSHFCGGSI
ISNYVITAACHVSGSSASSVVVVAGTNTLNSGGTSYRVSRIVVHSGYNSNTIVNDIALL
RLSSAISYNSYVQPIALPAQGETSGAGVAAVASGWGYTSYPGWSLPNNLQKVSLSVISNT
QCSSYMNNIYSSSICASGGNGKGVCCNGDSGGPLTAGGKLIGLVSWGRPCAVGYPDVYTRV
SSYVSWINQNAV

>accession|AKH04310.1|Allergen alpha-amylase [Periplaneta americana]

MKLFALLALVLLAGVQSQKDPKLPDESTLLRRLF EWKFDDIADECERFLAPKGYAGVQV
SPVHKNLLYTATAPGLWERYQPMSYKLVSRSGDETAFRDMVRRCNVAVGVRIYVDVVLNHM
SGNWDNAVGTGGSTADTYNYSYPGVPYDHSDFHPYCI LN DYQDPEIVRNCELVLGHLDLQ
SQDYVREKLIDFLNHLVDAGVAGFRVDAAKHMWPADLEYIYGKVNNRNSDAGYCGDSSPS
RYQEVIDLGGEAVSKFEYNGFGRVTEFKHSEQIGYAFRGNNRLEWYTYTKPNWGLLPSGD
ALVFVDNHDNRQGGGNAILTYKTPKNYKMAIAFILAHPHYGYPRVMSSFDFAHDQGPQD
SDKNILSPSINADGTCNGWVCEHRWRQHANMVGFRNAVARGTEITNWWDNNGNHQIGFCRG
DRGFVAFNVEDNDLKQTLQTLQCLPAGTYCDVISGSKNNRAHLGAELVVAPNGEAFSVRLIS
DDDGVLAIHLEEKL

>accession|AKH04311.1|Allergen chitinase [Periplaneta americana]

MKLTSLVAVGVGVFLAAALQTCCKGFIRDFKTHRQLQEKGDRAVFCYYGSWATYRWGIAT
FEVDNIDTRLCTHIVYAFTGLRDGVIVSLDEYNDYEENWGKGLMKKFTTLAKNNGIKALV
GLGGWNEGSVKYSEMAATQAGRETFADSAVAFLQKQGF DGLDL DWEYPARRGGVPEDKDN
FTLLKTLSEKHLHARGLILTVAVSADPKTAANAYDFPNVAKYADYITLMSFDYHTPSSDT
VTGLNSPLDSLQDGTGYNKKNLVKYSVNQWLKGGVPPNKLVLGVPLYGRTYRLADPDQH
LGAPILGPGTAGLYTQEAGFLAYYEICSNPDWNVWVNDTSSYLYAYKDYQWLSYDDPNTI
TIKAQWVLEKNLGGVMVWSLESDDFHGNCGK GAYPLLTAVNKALGRL

>accession|AKJ77985.1|Putative ElF1 superfamily transcriptions factor [Triticum aestivum]

MGKRKAAAKPPPRKGMKLDTVFSCPFCNHGSSVECRIDLKNLIGEANCQICQESFSTTA
NALTEAIDVYSEWIDECERVNTVEGDDGA

>accession|AKJ77986.1|Putative hypothetical protein, partial [Triticum aestivum]

EFTNTCMECLVCDVHVACGDFASNDVIDPAKFRRRLGINDCLVNDGKSI EPSFPVSFQYGN
SFPYPMTVASASDCDN

>accession|AKJ77987.1|Putative hypothetical protein [Triticum aestivum]

MTLVASSSLDPVWVEVLGDPLLRLLRRLLRFIFCRATLSLKFASNDKAECLPSCVPPLPESV
GGESMLSQCCVMRVASFLGAADQFSFAEVTTPDIDEPTSSGGVDKEL

>accession|AKJ77988.1|Putative mitochondrial ubiquitin ligase activator of NFKB 1-like protein, partial [Triticum aestivum]

EMGDGQLCVICLRKRRAAFVPCGHLVCCCNCAKRVELMDEPLCPVCRQDIQYMLRVYDS

>accession|AKJ77990.1|Putative endosperm transfer cell specific PR60 precursor [Triticum aestivum]

MAKLMCLCFIILTIAVVVSADCEGDRQEMIKQCAKYQQWPANPKVNPSDACCVAWQKAN
IPCLCAGVTKEKEKIWCMEKVAYVANFCKKPFPHGYKCGSYTFPPLA

>accession|AKV72169.1|Putative allergen Koc s 1, partial [Bassia scoparia]

MAKQAVFLLV GALCVLSLDDVAKAPVSQFHIQGLVYCDTCPYPSSYVLPMLLEGATVKLE
CRNITAGTQTFKAEAVTDKVGQYSIPVDGDFEDDICEIELLKSPDNQCSEVSHDVYAKQS
AKVSLTSNNGEASDVR SANALGFMRKEPLEECPEVLKELDLYDVKAN

>accession|XP_013623213.1|Allergen PREDICTED: non-specific lipid-transfer protein 3-like [Brassica oleracea var. oleracea]

MASALSFFTCLVLTVCIVASVDAAISCGTVTSNLAPCAVYLMKGGPVPAPCCAGVSKLNS
MAKTPDRQQACKCLKTAAKNVNPSLASSLPKCGVSIPIPIISMSTNCDTVK

>accession|ALA65345.1|Putative ubiquinol-cytochrome c reductase binding protein-like protein [Dermatophagoides pteronyssinus]
MVHLTKTLRFINNPGRKFFYYGLQGYNKYGLYYDDFYDYTDPAHLEAVRRLPPDLYDQHT
YRVIRASQLEITKQFLPKEQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWNFLSKD

>accession|ALF39466.1|Allergen pollen antigen 3.01 precursor, partial [Platanus x acerifolia]
AAITCGQVVSKLTNCLSYLRSGGTVSTACNGVTSLNKMANSTSDRQAACNCLKSAYKSI
SGIKLQYSQSLAGKCGVNLPHYKISPDIDCSKVK

>accession|XP_005902099.2|Allergen PREDICTED: beta-casein isoform X2 [Bos grunniens mutus]
MPLNTIYKQPQNQIIHSAPPSLLVLYFGKKELRAMKVLILACLVALALARELEELNVP
EIVESLSSEESITRINKKIEKFQSEEQQTEDELQDKIHPFAQTQSLVYPPFGPIPN
PQNIPPLTQTPTVVVPPFLQPEVMGVSKVKEAMAPKHKEMPFKYPVEPFTE
ENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSLSQSKVLPVPQKAVPYPQR
DMP IQAF LLYQEPVLGPVVRGPFPIIV

>Accession|Q6EBC1.1|Conglutin beta 2; Lup an 1 [Lupinus albus]
MGKMRVRFPTLVLVLGIVFLMAVSI GIAYGEKDVLSHERPEEREQE EWQPRRQ
RQSRREEREQE QGSPSYPRRQSGYERRQYHERSEQREEREQE QGSPSYRRQR
NPHYFSSQ RFQTLYKNRNGKIRVLERFDQRTNRLLENLQNYRIVEFQSKPNT
LILPKHSDADYVLVVLN GRATITIVNDRRQAYNLEYGDALRIPAGSTSYILN
PDDNQKLRVVKLAIPINNPYFYD FYPSSTKDQQSYFSGFSRNTLEATFN
TRYEEIQRIILGNEDEQEYEEQRRGQE QSDQDEG VIVIVSKKQIQKLT
KHAQSSSGKDKPSDSGPFNLRSN EPIYSNKYGNFYEITPDRNPQVQ
DLNISLTYIKINEGALLPHYNSKAIYVVVDEGE GNYELVGIRDQQRQDE
QEKEEEV IRY SARLSEGDIFVIPAGYPISINASSNRLLLGFGINADEN
QRNFLAGSKDNVIRQLDRA VNELTFPGSAEDIERLIKNQQQSYFANG
QPQQQQQSEKEGRRRGRGSSLPF

>Accession|P85984.1|Profilin; Pollen allergen Beta v 2; [Beta vulgaris]
YMVIQGEPGA VIRLGDYLIDQGL

>Accession|4X9U_A|Chain A, Crystal Structure Kiwifruit Allergen Act D 5 [Actinidia deliciosa]
ISSCNGPCRDLNDCDGLICIKGKCNDPQVGTHICRGTTXSXQPGGCKPSGTLTCR
GKSHPTYDCSPVTSSTPAKLTNND FSEGDDGGPSECD ESYHNNNERIVALST
GWYNGGSRG KKMIRITASNGKSVSAKVVDECD SRHGCDKEHAGQPPCRNNI
VDG SNAVWSALGLDKNVG VVDITWSMA

>Accession|AKV72168.1|Ama r 1, partial [Amaranthus retroflexus]
MAKCQAVFLLV GALCVLSLDDVAKAPVSQFHIQGLVYCDTCRIQFMTRISTIME
GATVKL ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPN
SECSEVSHDVYAKQ SAKVSLTSNNGEASDIRSANALGFMRKEPLEECPEVL
KELDLVDV KAN

>Accession|BAT62430.1|Ani s 14 [Anisakis simplex]
MQVKCIAKYGEQFCSSMLSVCS SMLSIPWKND SVQRLPPGIVGCAQTTPV
VQCRAKYSE SFCNRLGAACSKVTGTDIPAFSRGGGEYRLPEAISQCIAQENI
VAMCYASKCSQQCDGWR VTCNINGGMAQLTPEQVTCFEKQSGLVALKTSC
RTNPLNAQCRQIREPFETPKCTTAIPY LKISQTVINGQIHVQQLVSGGM
TGVQVSKTVETVIKT

>Accession|F5B8V9.1|Conglutin beta 1; Lup an 1 [Lupinus angustifolius]
MAKMRVRLPMLILLGVVFLLAASIGIAYGEKDFTKNPPKERE EEEHEPRQ
QPRPRQ QEE

QEREHRREEKHDGEPSSRGRSQSEESQEEHERRREHHREREQEQQPRPQRRQEEEEEE
WQPRRQRPQSRREEREEREQEQQSSSSSGSQSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPDKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYFSTTKDQOSYFSGFSKNTLEATFNTRYEEIERVLLGDDDELQENKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINEGALLLPHYNSKAI FIVVVDEGEGNYELVGIRDQQRQ
QDEQEEYEYEQGEEVRRYSKLSKGDVFIIPAGHPLSINASSNLRLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQOSYFANAQPQQQQQREKEGRRGR
GPISSILNALY

>Accession|F5B8W0.1|Conglutin beta 2; Lup an 1 [Lupinus
angustifolius]

MANMRVKFPTLVLLLGIVFLMAVSI GIAYGEKNAIKNHERPQEREQEERDPRQQPRRHQ
EEQEREHGREERNREPSRGRSESEESREEEREQRREPSRGREQEQQPQHGRREEEEEWQ
PRRQRPQSRREEREQEQQSSSSSSGRQSGYERREQRREEREQQQEQDSRSESRQRNPYYFS
YERFQTLYKNRNGQIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYILVV
LNGRATITIVNPDKRQAYNLEHG DALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPGNF
YDFYFSSSTKDQOSYFNGFSRNTLEATFNTRYEEIQRIILGNEDGQEDDEQSRGQEQSHQD
QGVIVRVSKQIQELRKHAQSSSGKPKPSSESGPFNLRSDPEIYSNKFGNFYEITPDRNPQ
AQDLDISLTFIEINEGGLLLPHYNSKAI FVVVVDEGEGNYELVGIRDQERQQDEQEVEV
RRYNAKLSEGDIFVVI PAGHPISINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDKE
VKQLTFPGSVEDVERLIKNQQOSYFANAQPQQQQQREKEGRRGRGLSFPFRSLFTKLLS
TIM

>Accession|F5B8W1.1|Conglutin beta 3; Lup an 1 [Lupinus
angustifolius]

MAKMRVRFPTLVLLLGIVFLMAVSI GIAYGEKNVLKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRRESEESQEEEREQRREPRREREQEQQPQHGRREEEEEWQPRRQRPQSRREER
EQEQGSSSSSRQSGYERREQRREEREQEQEQQSRSDSRQRNPYYFSSERFQTLYRNRNG
QIRVLERFDQRTNRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNGSATITIVNPD
KRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPGNFYDFYFSSSKDQOS
YFSGFSKNTLEATFNTRYEEIQSILLGNEDEQEDDEQWHGQEQSHQDEGVIVRVSKQVQ
ELRKYAQSSSRKPKPYESGPFNLRSNKPIYSNKFGNFYEITPDRNPQAQDLDISLTFIEI
NEGALLLPHYNSKAI FVVVVDEGEGNYELVGIRDQQRQQDEQEVEVRRYSARLSEGDIFVVI
AGHPISINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDREVKGLIFPGSAEDVERL
IKNQQOSYFANAQPQQQQQREREGRHGRGHISSILSTLY

>Accession|F5B8W2.1|Conglutin beta 4; Lup an 1 [Lupinus
angustifolius]

MIKMRVRFPTLVLLLGIVFLMAVSI GIAYGEKNVIKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRREEERDREPSRGRSESEESREEEREQRREPRREREQEQQPQHGRREEEEEWQ
PRRQRPQSRREEREQEQQSSSSSRQSGYERREEREQEQEQQSRSDSRQRNPYYFSSER
FQTLYRNRNGQIRVLERFDQRTDRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNG
SATITIVNPDKRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVKLAIPINNPGNFYDF
YFSSSKDQOSYFSGFSRNTLEATFNTRYEEIQRIILGNEDQEDDEQRHGQEQSHQDEGV
IVRVSKQVQELRKYAQSSSRKPKPSKSGPFNLRSNKPIYSNKFGNFYEITPNRNPQAQD
LDISLTFIEINEGALLLPHYNSKAI FVVVLVDEGEGNYELVGIRDQQRQQDEQEVEVRRYSAR
LSEGDIFVVI PAGHPISINASSNLRLLGFGINADENQRNFLAGSEDNVIRQLDTEVKGLTF
PGSTEDVERLIKNQQOSYFANAQPQQQQQREREGRHGRGHISSILSTLY

>Accession|F5B8W3.1|Conglutin beta 5; Lup an 1 [Lupinus
angustifolius]

MAKMRVRFPMVLVLLGVVFLAVSIGIAYGEKDVKNPERPEERQEERDPRQPPRSRQ
EEQEREHRREKERDREPSRGRSESKSQSEERERRKEHDREREQEQQPQYGRHEEEEEKG

EEEEEGQARRQRPQRREEREQEQGSSSESRRQSGDERRHRHEKREQREEREQEQGSSSSG
RQSDYGRRQRHEGREQREEREQEQGSSSESHRLRNPYYFSSERFQTRYKNKNGQIRVLER
FDQRTNRLLENLQNYRIVEFQSRPNTLILPKHSDADYILVVLNGRATITIVNPKRQAYNL
EYGDALRLPAGTTSYILNPDDNQDLRVVLAIPINNPGKFYDFYPSRTKDQQSYFSGFSK
NTLEATFNTHYEEIQRILLGYEDEQEDEEQRRQEQSHQDEGVIVRVSKEQIQELRKHAQ
SSSRKKGKPSSESGPFNLSNEPIYSNKFGNFYEITPDRNPQVQDLDISLIFTEISEGALLL
PHYNSKAIFVIVVDEGEGNYELVGIRNQQRQDEQEVEEVRSYNARLSEGDIIVIPAGHP
LSINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDREVKELIFPGSAEDVERLIRNQ
QQSYFANAQPQQQQQREKEGRRGRRGPISILSALY

>Accession|F5B8W5.1|Conglutin beta 7; Lup an 1 [Lupinus
angustifolius]

MARMRVRFPTLVLLGILFLMAVSIYGEKDVIKNHERPGEREHEERDPRQQPRPRKQ
EEQEREHRREEEHDRDPSRGRRESEERQEEERERRRREPCREREQEQPQHGRREEEEEEE
EWQPRRLRPQSRKEEREQEQGSSSSSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRRQ
RNPYHFSSERFQTRYRNRNGQIRVLERFDQRTNRLLENLQNYRIVEFQSNPNTLILPKHSD
ADYILVVLNGRATITIVNPKRQAYNLEYGDALRVPAGTTSYILNPDDNQDLRVVLAIP
INNPSNFYDFYPSSTKDQQSYFSGFSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRG
QEQSYQDEGVIVRVSKEQIQELRKHAQSSSRKKGKPSSESGPFNLSNESIYSNKFGNFYEI
TPERNPQVQDLDISLTFTEINEGALLLPHYNSKAIFVIVVDEGEGNYELVGIRDQQRQD
EQEEEEEEVRRYSARLSEGDIIVIPAGYPIVSNASSNLRLLLGFGINANENQRNFLAGSED
NVISQLDREVKELTFPGSAQDVERLIKNQQQSYFANAQPQQKQREKEGRRGRRSLISSI
LSTLY

>Accession|B3EWP3.1|Defensin 1; Ara h 12 [Arachis hypogaea]
KTVAGFCIFFLVFLAQEGVVKTEAKLCNHLADTYRGPCFTNASCDHCKNKEHFVSGTC
MKMACWCAHNC

>Accession|B3EWP4.1|Defensin 2; Ara h 13.0101 [Arachis hypogaea]
VQKRTIIMEKKMAGFCIFFLILFLAQEYGVGKECLNLSDKFKGPCLGSKNCDHHCARDIE
HLLSGVCRDDFRCWCNRKC

>Accession|C0HJZ1.1|Defensin 3; Ara h 13.0102 [Arachis hypogaea]
MEKKMAGFCIFFLVFLAQEYGVGKVCLNLSDKFKGPCLGTKNCDHHCARDIEHLLSGVC
RDDFRCWCNRNC

>Accession|1510259A|H2 proteinase [Protobothrops flavoviridis]
ERFPQRYIELAIVVDHGMYYKYNQNSDKIKVRVHQMNVNHNEMRPLNIAISLNLQIWS
KKDLITVKSASNVTLESFGNWRETVLLKQONNDCALLTATNLNDNTIGLAYKKGMCPNK
LSVGLVQDYSNPFMVAVTMTHELGHNLGMEHDDKDKCKCEACIMSDVISDKPSKLFSDC
SKNDYQTFLTKNYPQCILNAP

>Accession|3S18_B|Chain B, Crystal Structure Of A Plant Albumin
From Cicer Arietinum Showing Hemagglutination [Cicer arietinum]
TKTGYINAAFRSSRNNEAYLFINDKYVLLDYAPGTSNDKVLYGPSFVRDGYKSLAKTIFG
TYGIDCSFDTEYNEAFIFYENFCARIDYAPHSDKDKIISGPKKIADMFPFFKGTVFENGI
DAAFRSTKGKEVYLFKGDKYARIDYLTNRLVQNKSIISDTGFPCLRGTFEAGMDSAFASH
KTNEAYLFKGEYYARINFTPGSTNDIMGGVKKTLDYWPSLRGIIPLE

>Accession|4ZCE_A|Chain A, Crystal Structure Of The Dust Mite
Allergen Der P 23 From Dermatophagoides Pteronyssinus
[Dermatophagoides pteronyssinus]
SFTKFECPSRFGYFADPKDPHKFYICSNWEAVHKDCPGNTRWNEDEETCT

>Accession|5E1R_A|Chain A, Crystal Structure Of Pecan (carya
illinoensis) Vicilin, A New Food Allergen [Carya illinoensis]

MSREEEQQRHNPYYFHSQGLRSRHESGEGEVKYLRFTE RTE LLRGIENYRVVILEANPN
TFVLPYHKDAESVIVVTRGRATLTFVVSQERRESFNLEYGDVIRVPAGATEYVINQDSNER
LEMVKLLQPVNNPGQFREYYAAGAQRSTESYLRVFSNDILVAALNTPRDRLERFFDQQEQR
EGVIIRASQEKLRALSQHAMSAGQRPWGRSSGGPISLKSQRSSYSNQFGQFFACPEEH
RQLQEMDVLVNYAEIKRGAMMVPHYNSKATVVVVYVEGTGRFEMACPHDVSSQSYEYKGR
REQEEEESSSTGQFQKVTARLARGDIFVIPAGHPAITASQNNENLRLVGFINGKNNQRNF
LAGQNNIINQLEREAKELSFNMPREEIEEIFERQVESYFVPMERQSRRGQGRDHPLASIL
DFAGFF

>Accession|5EM0_A|Chain A, Crystal Structure Of Mugwort Allergen
Art V 4 [*Artemisia vulgaris*]
GSGSWQTYVDDHLMXDIEGTGQHLTSA AIFGTDGTVWAKSASFPEFKPNEIDAIKEFNE
AGQLAPTGLFLGGAKYMQEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQCN
MVVERLGDYLLDQGM

>Accession|5EM1_A|Chain A, Crystal Structure Of Ragweed Allergen
Amb A 8 [*Ambrosia artemisiifolia*]
GSGSWQTYVDEHLMXDIEGTGQHLASAAIFGTDGNVWAXSSSFPEFXPDEINAIKEFSE
PGALAPTGLFLAGAXYMQEPEGAVIRGXXGAGGICIXXTGQAMVFGIYEEPVNPGQCN
MVVERLGDYLVLDQGM

>Accession|5EV0_A|Chain A, Crystal Structure Of Ragweed Profilin
Amb A 8 In Complex With Poly- Prol4 [*Ambrosia artemisiifolia*]
SGSWQTYVDEHLMXDIEGTGQHLASAAIFGTDGNVWAKSSSFPEFKPDEINAIKEFSEP
GALAPTGLFLAGAKYMQEPEGAVIRGKKGAGGICIKKTGQAMVFGIYEEPVNPGQCNM
VVERLGDYLVLDQGM

>Accession|A0A161AT60.1|Non-specific lipid-transfer protein 1;
PsLTP1; Pis s 3 [*Pisum sativum*]
MARSMKLACVALVICMVVIAPMAEAALSCGTVSADMAPCVTYLQAPNNASPPPPCCAGVK
KLLAAATTTTPDRQAACNCLKSAAGSIPKLNNTNAAALPGKCGVSIPYKISTSTNCNTVRF

>Accession|AAU43733.1|Profilin [*Citrullus lanatus*]
MSWQAYVDDHLMCEIEGNHLTSA AIGQDGSVWAKSENFPQLKPEEITGILNDFNEPGTL
APTGLYIGGSKYMQEPEGAVIRGKKGPGGVTVKKTALALVIGIYDEPMTGQCNMIVE
RLGDYLIEQGL

>Accession|ACX47057.1|Fra a 1 (isoform) [*Fragaria x ananassa*]
MGVFTYETEFTSVIPPRLFKAFILDADNLI PKIAPQAVKCAEIEGDGGVGTIKKITFG
EGSQFGSVTHKIDGIDKENFVYSYSLIEGDALSDKIEKISYETKLVSSSDGGSIIKSTSN
YHTKGDVEIKEEHVKAGKEKASHLFLVEGYLLANPNEYC

>Accession|ACX47058.1|Fra a 1 (isoform) [*Fragaria x ananassa*]
MGVFTYSEFTSVIPPKLFKAFVLDADNLI PKIAPQAVKSAEIEGDGGVGTIKKIHLG
EGSEYSYVHKIDGIDKDNFVYSYSLIEGDAIGDKIEKISYEIKLVASGGGSIIKSTSHY
HTKGEVEIKEEHVKAGKERAAGLFKIIEHLLAHPEEYN

>Accession|ADV71357.1|metalloproteinase PMMP-3 [*Protobothrops
mucrosquamatus*]
MIEVLLVTICLAVFPYQGSSIIILESGNVNDYEVVYPRKVSALPKGAVQPKYEDTMQYELK
ENGEVVLHLEKNKGLFSEDYSETHYSPDGREITTYPSVEDHCYYHGRIHNDADSTASIS
ACDGLKGYFKLQGQTYLIEPLKLPDSEAHAVFKYENIEKEDEAPKMCVGTQNWESDES
KASQLYLTPEQQRFPQRYVKLAIVVDYRMYIKYNRDSNKITVRVHEMVNHNEMYPKPLNV
AITLSLLRIWSTRDLITVQSDSKVTLGSFGDWRKTVLLKQQSHDCAHLLTDITFTKNVIG
VAYKKGMCDPKLSVGLVQDYSSNVFVVAAIMTHELGHNLGMEHDEDENGKCKCDTCIMS

PAISDPPAQLFSDCSKNDYHTFLTNSKPQCILNAPLRTDTVSTPVSNGNEPL

>Accession|AEB54655.1|triosephosphate isomerase [Procambarus clarkii]

MANQRKFFVGGNWKMNDRAGIDSIIISFMKGPLSADTEVVVVGCPQCYLMTREHLPSNIG
VAAQNCYKVKAGFTGEISPSMIKDCGCEWVILGHSERRNVFNPDTLISEKVGHALEAG
LKVIPCIGEKLEERESNRTEEVVFAQMKALVPNISDWSRVVIAYEPVWAIGTGKTATPEQ
AQEVHAKLRQWLRDNVNAEVADSTRIIYGGSVTPGNCKELAKTGDIDGFLVGGASLKPDF
VQIINARD

>Accession|AFJ80778.1|sarcoplasmic calcium-binding protein [Scylla paramamosain]

MAYSWDNRVKYVVRMYDIDNNGYLDKNDFECLALRNTLIEGRGEFNSDAYANNQKIMSN
LWNEIAELADFNKDGQVTVDEFKQAVQNLCCGKSFDGFPFCFKTVIGRLFKTIDINGDGL
AGVDEYRLDCISRSASFSSVKEIDDAYAKLCTDDDKKAGGISLNRYQELYAQFISNPDEKC
NAVYLFGLKEVQ

>Accession|AHZ10957.1|Fra a 1.06 allergen [Fragaria x ananassa subsp. ananassa]

MGVFTYETEFTSVIPPRFLKAFILDADNLIPKIAPQAVKCAEIVEGDDGGVGTIKKITFG
EGSQFGSVTHKIDGIDKENFVYSYSLVEGDALSDKIEKISYETKLVAASDGGSVIKSTSN
YHTKGDVEIKEEHVKAGKEKASHLFLKLVEDYLLANPNEYC

>Accession|AHZ10958.1|Fra a 1.07 allergen [Fragaria x ananassa subsp. ananassa]

MGVFTYETEFTSVIPPRLYKAFVLDADNLIPKIAPQAVKSTELVQDGGVGTIKKIHLG
EGSEYSYVKHQIDGLDKDNFVYNYSIIIEGDAIGDKVEKISYEIKLVASPSGGSIKSTSH
YHCKGEVEIKEEHVKAGKERAAGLFKIIEENYLLGNPDAYN

>Accession|AHZ10959.1|Fra a 1.08 allergen [Fragaria x ananassa subsp. ananassa]

MGVFTYETEFTSVIPPRLYKAFVLDADNLIPKIAPQAVKSAEIVQDGGVGTIKKIHLG
EGSEYSYVKHQIDGLDKDNFVYNYSIIIEGDAIGDKVEKISYEIKLVASPSGGSIKSTSH
YHCKGEVEIKEEHVKAGKEKAAGLFKIIEENHLLANPEAYN

>Accession|AHZ97469.1|subtilisin-like serine protease, partial [Alternaria alternata]

PQRQMDSAKEVPNSYVVFKKHVVDASKHHDWVQSVHSKNNEERMELRKRSSQFPVTTEV
FDGLKHVYEMAGMKGYSGHFDDETIEAIRNHPDVDYIERDSEVHTLGHDEPEIEKNSPWG
LARISHRDSLSFGTWNKYLYAADGGEGVDVYVIDTGTNTKHVDFEGRAKWGKTIPNGDAD
EDGNHGTHCSGTVAGKKGVAKKAHVYAVKVLRSNGSGTMSDVVKGVEYAAKAHSDTVQ
AAKDGGKKGFKGSAANMSLGGGKSTLDLAVNAAVDAGIHFVAAGNDNADSCNYSAAA
ENAVTVGASTLLDERAYFSNYGKCNDIFAPGLNILSTWIGSEHATNTISGTSMASPHIAG
LLAYMLSLQPAKDSAYAVADITPKKLANLISVATVGALSDVPRNTKNILAWNGGSSNY
TEIVEKGGYTVKKAEEKNEESEFRITIPSLSEIEDDFEKAKESAGRNAHRVGGKQLHLE
AEIEDFIAEEMESMFEKVKERVASQKL

>Accession|AJA79001.1|vacuolar serine protease, partial [Fusarium proliferatum]

DKCDGETERQAPWGLARISHRNTLNFGTFNKYLYSSDGGEGVDAYIVDTGTNVDHVDVFE
RAHWGKTIPSGDADEDGNHGTHCSGTVAGKKGVAKKANVYAVKVLRSNGSGSMSDVVK
GVEFAATSHLEQKKKAKDGKRKGFKGSVANMSLGGGKTQALDAAVNAVRTGIHFVAAG
NDNADACNYSAAAASEPVTVGASALDDSRAYFSNYGKCTDIFAPGLNIQSTWIGSKYAVN
TISGTSMASPHIAGLLAYYLSLQPAEDSEYALASITPKKLENLISVATEDALSDIPSDT
PNLLAWNGGCSYKIVEAGSYKVKAAAPSSRVEEIKHAVEQEVNLVSGKLTGAKELGS

KAEKFSKKIHELVDDEELEEFLKELNL

>Accession|AK068307.NT|Translation from Accession AK068307: *Oryza sativa Japonica Group* cDNA clone:J013136I11, full insert sequence [*Oryza sativa Japonica Group*]

MKLVSIYLLVLCVVGANELLVVAASGNDGGGGRFVYSGFAGANLTLTGATVTPAGLIEL
TNGTLQLKGHAFHPTPLRFGFGSGGGGGDGVVRSFSASFVFGILSAYPMSAHGIVFL
VSPTTDFSAALASQYLGLVNVTSNGDARNRIFAVELDTLQQDEFRDINDNHVGV DINGLV
SLQSTSAGYYAADINGGGFRNLTLISHEAMRVVVDYDAGDARIDVTLAPLAVAKPVRPLI
SAAYNLSSVITDTAYVGFSSATGSFNRSRHYVLGWSFAVDGGPAPPAIDVAKLPKLPREGPK
ARSKFLEIFLPIASAAVVLAMGILVILLVRRRKRYTELREDWEVEFGPHRFPYKDLHHAT
QGFESKCLLGVGGRVYKGVLPNSNVEIAVKRVSHDSSQGVKEFVAEVVSLGRLQHCNL
VRLLYCRRKGEMLVYEYMSNGSLDKYLHGQDNKPTLSWAQRFQIIKDIASGLLYLHEE
CDKVVIHRDIKASNVLDDNEMNARLGDFFGLARLYDHGEDPQSTHVVGITIGYLAPELGRTS
KATPLTDVFAFGTFILEVTCGRRPYHDSHGTQVMLVDWVLDHWHKQSLVDTVDLKLHGE
FDVGEACLVLKLLCSHPFINARPDMMRVMQYLKREVALPELMPTSMSFHMLALMQNDG
FDSYVQSYPPSSNSKGNISTATSSLLEEG

>Accession|AK119653.NT|Translation from Accession AK119653: *Oryza sativa Japonica Group* cDNA clone:002-130-H01, full insert sequence [*Oryza sativa Japonica Group*]

MDRVRGCAFLGLVLLAGSLFAFSVAKEETKKGTVIGIDLGTTYSVGVYKNGHVEIIAN
DQGNRITPSWVAFTDSERLIGEAANKQAAVNPRTIFDVKRLIGRKFEDKEVQRDMKLV
YKIVNKDGKPYIQVKIKDGENKVFSPPEVSAMILGKMKETAAYLGGKINDAVVTVPAYF
NDAQRQATKADAGVIAGLNVARIINEPTAAAIAYGLDKKGGKKNILVFDLGGGTFDVSILT
IDNGVFEVLATNGDTHLGGEDFDQRIMEYFIKLIKKKYSKDISKDNRALGKLRREAERAK
RALSNQHQRVEIESLFDGTFSEPLTRARFEELNNDLFRKTMGPVKKAMDDAGLEKSQI
HEIVLVGGSTRIPKAQQLLRDYFEGKEPNKGVNPDEAVAYGAAVQGSILSGEGGDETKDI
LLLDVAPLTLGIETVGGVMTKLI PRNTVIPTKKSQVFTTYQDQQTTSIQVFEGERSMTK
DCRLLGKFDLSGIPAAPRGTPQIEVTFEVDANGILNVKAEDKGTGKSEKITITNEKGRLS
PEEIDRMVREAEFEAEEDKKVKERIDARNQLETYVYNMKNVTGDKDKLADKLESEEKEKV
EEALKEALEWLDENQTAEKEEYEEKLKEVEAVCNPIISAVYQRTGGAPGGGADGEGGVDD
EHDEL

>Accession|AK242260.NT|Translation from Accession AK242260: *Oryza sativa Japonica Group* cDNA, clone: J075184G19, full insert sequence [*Oryza sativa Japonica Group*]

MKIIIFV FALLAIAACSASAQFDVLGQSYRQYQLQSPVLLQQQVLSPYNEFVRQQYGIAAS
PFLQSAAFQLRNNQVWQQLALVAQQSHYQDINIVQAIQQQLQLQQFGDLYFDRNLAQAQA
LLAFNVPSRYGIYPRYYGAPSTITTLGGVL

>Accession|AKF12278.1|Par h I precursor [*Parthenium hysterophorus*]

MAKSSTSYLVFLLLVLLVVAISEIASVNGKVCEKPSKTWFGNCKDTEKCDKRCMEWEGAKH
GACHQRESKYMCFYFDCDPKKNPGPPPAGPTPGTPPAPPGGGEGDAPPGGGAPPAGG
EGGGGGEGGGGAPPAGGEGGGGGDGGGGAPPAA

>Accession|AKV72166.1|allergen Aca f 1, partial [*Acacia farnesiana*]

DDVPKPPVSQFHVQGLVYCDTCRYPFITEASPI MEGATVKLECRNITAGTQTFKAEAVTD
KVGQYSIPVDGDHEDDICEIELVKSPDNQCSEIPHDVYAKQSAKVSLTSNNGEASDVRSA
NALGFMRKEPLPECPEVLKEKLDMYDVKAN

>Accession|AKV72167.1|allergen Pro j 1, partial [*Prosopis Juliflora*]

DDVAKPPVSQFHIIQGLVYCDTCRIQFMTRVSTIMEGATVKLECRNITAGTQTFKAEAVTD
KVGQYSIPVNGDFEDDICEIELVKSPNSDCSEIPHDVYAKQSAKVSLSNNGEASDIRSA
NALGFMRKEPLKECPEVSKEPLDMYDVKAN

>Accession|ALM30773.1|triose phosphate isomerase [Amphioctopus
fangsiao]

MGRKFFVGGNWKLNKKSIDGIIIEFMNAGPLNADTEVVVGGPPSCYLEYVRSKLGKGNIGV
AAQNCYKVPSPAFTGDISPAMIKDIGLRYVILGHSERRNVFGETDELIGEKIEHAVSEGL
IVIACIGEKLEEREAGKTEEVVFSQTKTIKHTKDWKVVIAIYEP IWAIGTGKTATPEQA
QSVHASLRKFISENASKEIADNVRILYGGVSVAANCKELGQKPDIDGFLVGGASLKPDPFV
KIVNARA

>Accession|ANQ43386.1|Man i 1 allergen [Mangifera indica]

MAGGKKIKIGINGFGRIGRLVARVALQRNDVELVAVNDPFITTDYMTYMFKYDVTVHGQWK
HHEVKIKDQKTLLEFDEKPVTVFGIRNPEEIPWAETGAEFVVESTGVFTDKEKAAAHLKGG
AEKVVISAPSKDAPMFVVGVNEKEYKPELNIVSNASCTTNCLAPLAKVINDRFGIVEGLM
TTVHSITATQKTVDGSPMKDWRGGRAASFNIIPSSSTGAAKAVGKVLPSLNGKLTGMSFRV
PTVDVSVVDLTVRLEKEATYEEIKAAIKEESEGLKLGILGYTEEDVSTDFVGDSSRSIF
DAKAGIALNKKFVKLVSWYDNEWGYSSRVIDLIVHMASTA

>Accession|ANZ22900.1|enolase 2 [Ambrosia artemisiifolia]

MATIKAVKARQIFDSRGNPTVEVDITLSDGTLARAAVPSGASTGIYEALERDGGSDYLG
KGVSKAVANVNTIIGPALVGKDPTDQTGIDNFMVQQLDGTQNEWGWCKQKLGANAILAVS
LAVCKAGASVLKTPLYKHIANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPIGA
SSFKEAMKMGVEVYHNLKSVIKKKYQDATNVGDEGGFAPNIQENKEGLELLKTAIAKAG
YTDKVVIGMDVAASEFYGEKDKTYDLNFKEENNDGKEKISGEQLKDLYKSFVSEYP IVSI
EDPFDQDDWEHYAKMTAECGEQVQIVGDDLLVTNPTRVKAIDEKTCNALLLKVNQIGSV
TESIEAVRMSKHAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIEEELGSEAVYAGANFRKPVEPY

>Accession|ANZ22901.1|enolase 1 [Ambrosia artemisiifolia]

MLFVDEIKVDITLSDGTLARAAVPSGASTGIYEALERDGGSDYLGKGVSKAVANVNTIIG
PALVGKDPTDQTGIDNFMVQQLDGTQNEWGWCKQKLGANAILAVPLAVCKAGASVLKTP
LYKHIANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPIGASSFKEAMKMGVEVY
HNLKSVIKKKYQDATNVGDEGGFAPNIQENKEGLELLKTAIAKAGYTDKVVIGMDVAAS
EFYGEKDKTYDLNFKEENNDGKEKISGEQLKDLYKSFVSEYP IVSIEDPFDQDDWEHYAK
MTAECGEQVQIVGDDLLVTNPTRVKAIDEKTCNALLLKVNQIGSVTESIEAVRMSKHAG
WGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQLLRIEEELGSEAVYA
GANFRKPVEPY

>Accession|XP_005598291.1|secretoglobin family 1D member [Equus
caballus]

MRLFLPVLVTLALCCETNAATCPAVATDIASFFLLPDSLFLKQLIKYQAPPEAKDATM
QVKQCINEISAGDRYIITETLTKIVLQCGA

>Accession|XP_003362701.1|mammaglobin-A [Equus caballus]

MKLVTVLMVAFPLYCYAGSGCQLLEDVVEKTITAEELSPAELYVEAVQEFIPDEATEKAAI
QLKQCYLKQSNETLNDFRMTMMNSMYNSAYCALF

>Accession|APD76154.1|pathogenesis related protein 10 [Juglans
regia]

MGVFTYETESTSVIPPARLFKAFVLDADNLIPKVVPQAVKSSEIEGNGGPGTIKKINFG
EGSQYKYVKHRTDAIDEANFTYAYSVIEGDALADKIEKISYETKIVASHEGGSILKSISH
YHSGGDHEIKEEDVKDGKEKASGLFKAVEGYLLAHPDAYN

>Accession|APR62629.1|legumin [Juglans nigra]
MAKPILLSISLCLVALVNGCLAQSGGRQQPRFGECKLKRLVALEPSNRIEAEAGVIESWD
PNNQQFQCAGVAVVVRTIEPNGLLLPQYSNAPQLLYIVKGRGITGVLFPGCPETFEESSQQ
GQSRIRPSLRASAFQRDRHQKIRHFREGDVIAFPAGVAHWCYNDGDTPVVAVALMDTTNN
ANQLDQNPFRNYLAGNPDEFRPQGGQEQYEQHRRQQHQQRHGEPGQQQRGSGNNVFSGF
DADFLADAFNVDTETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERE
RESESERRQSRGRDDNGLEETICTLRLRENIGDPSRADIYTEEAGRISTANSHTLPVL
RWLQLSAERGALYSDALYVPHWNLNAHSVYALRGRAEVQVVDNFGQTVFDDDELREGQLL
TIPQNFVVKRARNEGFEWVSFKTNENAMVSPLAGRTSAIRALPEEVLANALQIPREDAR
RLKFNREQESTLVRSRPSSSRSSRSERRAEV

>Accession|ARG42047.1|major urinary protein-like lipocalin 2
precursor [Mesocricetus auratus]
MKLLLLLLVGLLETLVVCVHAEKTSLTGKNFNPEKIVGKWSILLASDKREMIIEYGS
RMFMEYIRLFKNSSLAVKFHTIANEECTELYLVCDKTEKGGVYDAKYDGYNRFTILD
TDYNDYIITHLRNIKNGETFQLMKLCGRKPKLSSNIKKKFGDLCQKHGIVKENIIDL
TEADHC LKTQVEIVA

>Accession|ARS33724.1|Sal k 6.01 allergen [Kali turgidum]
MKTFNLPLLVALFYLFVSVARSQGPIDITKFGAKPNADATSALLAAWKEACAAAAPAKIV
VPAGEFLLNAVKLQGPCKAPLTIEIAGNFKAPADVAQMKGEDTWWKIENVQGLTITCLPT
GGTFDGGQQAAWKQNKCAQSGMCNSLPYNFRFNTLTNAQISGIKSLNSKLYHMGVMGCKN
ITLTGLTIDAPKDSLNTDGMHIGRSNGVHATNSKIGTGDDCISMGDGAVDVHVEGITCGP
GHGISIGSMGKFANEAPNTGIFVKNCSTDTDNGVRIKSWMNSFEASASDLHFEDITVTN
VLNPVIIDQEYCPYNHCKEKTSPKVKLSKISFKNVHGAAKSAEVVLLCSSAVPCDGV
ELADIDLTFPGGAAVSQCKNVKPIVTGKQNPVACGAPATPAAP

>Accession|B8AL97.1|Cupincin; 52 kDa globulin-like protein; Oryza
sativa [Oryza sativa Indica Group]
MAKKKTSSSMARSQLAALLISLCLFLSLASNAVGSRRGEREEEDERRRHGGEGGRPYHFG
EESFRHWTRTRHGRFSVLERFPDEQVVGAAVGGYRVAVLEAAPRAFLQPSHYDADEVFYV
KEGEGVIVLLREGRKESFCVREGDAMVIPAGAIVYSANTHSSKWFRVVMLLNPVSTPGHF
EEYFPVGGDRPESFFSAFSDDVLQAAFNRREELEKVFERQREGGEITTAPEEQIRELSK
SCSRGGGGGSGSEWEIKPSSLTGKSPYFSNNHGKLFELTGDECRHLKLLDLQIGLANITR
GSMIAPNYNTRATKLAVVLQSGYFEMACPHVSGGGSSERREREREHGRRREEEQGEEEH
GERGEKARRYHKVRAQVREGSVIVIPASHPATIVASEGESLAVVCFVGVANHDEKVF
LAGRNSPLRQLDDPAKKLVFGGSAAREADRVLAAQPEQILLRGP HGRGSVSDM

>Accession|BAG86826.1|unnamed protein product [Oryza sativa
Japonica Group]
MKMKALLPVAAMLLLVSGQLAAPVTADGYVQGLAVFWGRHKEEGSLREACDTGRYNIVVI
TFYNVFGYQGRYGLDFSGHPVAAVGADIKHCQSKGVQVLLSIGGQGEYSLPSSQSASD
VADNLWNAYLGGRRAGVPRPFGDAVVDGIDFFIDQGGADHYEQLARQLHGRGVLLTATVR
CAYPDSRMEAALATGVFARIHVRIFGDDQCTMFPKDAWEKWAAAYPRCTVFLTVVASPEQ
DEGYMFQKDLYYGVQQFIDKEPNYGGIAIWDRIYD KKANYSGEG

>Accession|BAG88472.1|unnamed protein product [Oryza sativa
Japonica Group]
MASSSFSFLLVAALLGLASWKAIASDPSPLQDFCVADLNSPVRVNGFVCKNPMNASADDF
FKAAMLDPKPRDTNNKVGSNVTLVNVLQPLGLNTLGISIARLDFAPLGLNPPHPTHPRATEI
FTVLEGTLYVGFVTSNPDNRLLSKVLNKGDFVVFPEGLIHFQFNPNPHKPAVAIAALSSQ
NPGVITIANAVFGSNPPI SDDILMKAFQVDKIIIDLLQAQF

>Accession|BAG93480.1|unnamed protein product [Oryza sativa
Japonica Group]

MPPDVEVIRHEHIDHPSSTRDRSVVSSNSLSNTVSAITDMKNTSSLCLLLLLVVLCSLTC
NSGQAQVLFQGFNWESWKQGGWYNMLKGQVDDIAKAGVTHVWLP PPSHSHVAPQGYMPGR
LYDLLDASKYGTAAELKSLIAAFHGKGVQCVADVVINHRCAEKKDARGVYCVFEGGTPDDR
LDWGPGMICSDDTQYSDGTGHRDTGEGFGAAPDIDHLNPRVQRELTDWLNWLKSDVGFDDG
WRLDFAKGYSTDIKMYVESCKPGFVVAEIWNLSYNGDGKPAANQDQGRQELVNVVNAV
GGPAMTFDFTTKGLLQAGVQGELWRLRDLGNGKAAGMIGWLPEKAVTFVDNHDTGSTQKLW
PFPSPDKVMQGYAYILTHPGVPCIFYDHMFWDNLKQEITALAAIRERNGINAGSKLRIVVA
DADAYVAVVDEKVMVKIGTRYDVGNAVPSDFHQTVHGKDYSVWEKGLRVPAGRHL

>Accession|BAG95020.1|unnamed protein product [*Oryza sativa*
Japonica Group]
MEQYEKVEKIGEGTYGVVYKGGKHRHTNETIALKKIRLEQEDEGVPSTAIRESILLKEMQH
RNIVRLQDVVHKEKCIYLVFEYLDLKLKHMDSPPDFKNHRIVKSFLYQILRGIAYCHSH
RVLHRDLKPQNLLIDRRNTSLKLADFGGLARAFGIPVRTFTHEVVTLWYRAPEILLGARHY
STPVDMWSVGCIFAEMVNQKPLFPDSEIDELFKIFSIMGTPNEETWPGVASLPDYISTF
PKWPSVDLATVVPPTLDSSGLDLLSKMLRLDPSKRINARAALHEHYFKDLEVA

>Accession|BAH01262.1|unnamed protein product [*Oryza sativa*
Japonica Group]
MKIIFFFALLAIAACSASAQFDAVTQVYRQYQLQPHLMLQQMLSPCGEFVRRQCSTVAT
PFFQSPVFQLRNCQVMQQCCQQLRMIAQQSHCQAISSVQAIVQQLRLQQFASVYFDQSQ
AQAQAMLALNMPASICGIYPSYNTAPCSIPTVGGIYW

>Accession|BAV90601.1|enamine/imine deaminase [*Dermatophagoides*
farinae]
MSPKRIISTPLAPQPIGPYSQAVQVGNTVYLSGQIGMNVRTNEMVTGPIDEAQQAFTNM
KAVVEASGAKMSDVVKVNIIFIRNFNDFPAINVDMKEFFQSPFPARSTVGVAELPKNARVE
IESIVVIE

>Accession|BAW03242.1|allergen protein [*Liposcelis*
bostrychophila]
MAAIFILIAFLAFSVSQTTEANVVAQPKAFDIIAIVKQVIDIVRIVVKAVNDAVPDIDK
ILQQLVALLPSDVAATVTTVLDAIKQAITDENARIDHIIQVLEKAMDDLLAIDPCYQPQA
DAIKAVLDKALSGIDGVLHGSIDAHKADIDNVIAGFSQDLEDLRNLYDTQLPAAVVCLTP
GNAESCGCLDGVKETVNGVVS LAANFVLHLTAASDVLKVVVPEVINGSTPIVNDGLAA
GPLIDNVCTCVAAM

>Accession|BAW03243.1|allergen protein [*Liposcelis*
bostrychophila]
MAAFKFILLAFSAFLAFSVSQTTEANVVAQPRAFDIIDIVKKVIQIVEIVVEAVNGAVEPIDK
ILQELIALLPADVAKTVTAVVDALRQAIADENVRIDHIIIEVLNKAIDDDLLAIDPCYQPQA
DAIKAVLDTALSGIDKVLHGSIDAHKADIDNVIAGFSQDLEDLRNLYDTQLPAAVVCLTP
GNADSCTCLDGVKETVNGVVS LAANFVLHLTAASDVLKVVVPEVIDGATPVVNDGLAA
GPLIDNVCAACVQGM

>Accession|BAX34757.1|group II allergen [*Dermatophagoides*
farinae]
MIKFLCIFALTFAVASAGKMKFVDCGHKEVISLDVSGCEGDYCVLHKGKTIDLDMKCKSN
QDSEHLKLIISADVNGIEIEVPGFDQDGCHYVQCP IHKGQDYDIKYSYNVPAVLPNIKGT
LTAKVIGDNGLVGCLKLNGEIAID

>Accession|C0HJX6.1|Profilin; Pla 1 2 [*Plantago lanceolata*]
AILGQDGSVWAQGLHLGGAKYVIAGEPGAVIRLGDYLLDQGL

>Accession|C0HKB1.1|Polygalacturonase; Cup s 2 [*Cupressus*

sempervirens]
DVAIVFNVEHTLSAVFLVPANKKVDGIIAAYPDPVKIWMHFARTVCNDKGRPTAIKIDFS
KSELTLMNSPEFHLVFGECDGVKIQGIKIKRFEIEKDLTCGPGHGMSIGSLGKGNRSEV
SFVHLDGAKFIDTQNGLSAVKIEDVTFKNANGYYTNPLNPPCK

>Accession|C0HKC0.1|Pommaclein; Pun g 1 [Punica granatum]
GSSFCDSKCAVRCSKAGVQD

>Accession|CAA58223.1|mucofirase 3 [Protobothrops mucrosquamatus]
MVLIRVLANLLILQLSYAQKSSSELVIGGDECNINEHPFLVLVYYDDYQCGGTLNNEEWL
TAAHCNGKMEIYLVHSHKVPNKDVQRRVPKEKFFCDSSKTYTKWNKDIMLIRLDRPVR
KSAHIAPLSLSPSPSVGSVCRVMGWGTITSPQETYPDVPHCANINLLDYEVCRAAYAGL
PATSRITLCAGILEGGKDCVGDSCVGGPLICNGQFQGIIVSWGGDPCAQPREPGVYTNVFDHL
DWIKGIIAGNTDVTCP

>Accession|CEE03318.1|Allergenic protein Tha p 2, partial
[Thaumatococcus danianus]
VPQLSEKAEKAVDLTYQEKNLFEELGSSVVDIISKNGCHVSFGCHKGYCWAGCGNPTNPW
SWGKNCYTTKTYSSQSYVQCTQDSECDGCWKCGGPCSA

>Accession|XP_008286259.1|parvalbumin beta; partial 32 aa
sequence [Stegastes partitus]
KAFAIIDQDKSGFIEEDELKLFQNFSAARA

>Accession|L7UZ85.1|Alpha-actinin; F-actin cross-linking protein;
Der f 24 [Dermatophagoides farinae]
MTQDGYMQEEEEWEREGLLDPWEKQQRKTFTAWCNHLRKAQTQIDNIEEDFRNGLKL
MLLLEVISGETLGPDRGKMRFKIANVNKALDFIESKGVKLVSIGAEIIVDGNKMTLG
LIWTIILRFAIQDISVEEMTAKEGLLLWCQRKTAPYKNVNVQNFHLSWKDGLAFCALIHR
HRPDLIDYGLRKNPMDNFNLAFDVAEKHLNIPRMLDAEDVVYTAKPDERAIMTYVSWY
YHAFHGAQQAETAANRICKVLKVNQDNERLMEEYERLASDLLEWIRRTTPWLENRTDNT
LPGTQKKLEEFRSYRRQHKPPRVEQKANLETNFNTLQTKLRLSKRPAYMPSEGKMSDIT
GAWKGLSAEKGFEEWLLSEMMRLERLDHLAQKFKHKADIHEEWTQGKEEMLVSHDFRQC
KLNEIKALKKKHEAFESDLAAHQDRVEQIAAIAQELNALGYHDIASINARCQRICDQWDR
LGTLTTRRRQALDEAEQILEKVDLHLEFAKRAAPFNWLDDETREDLVDMFIVHSIEEQ
QLIDAHESFKNTLGEADKEYKTIVGLAQEVQPMATQYQIPGGLENPYTTLTPEVITTKWR
DVKQLVPRDHTLQTELIRQQCNENLRRQFAEKANVVGPIERQMDAVTAIGMGMQGTLE
DQLQRLHEYDQAVVQYRPHVDDLEKIHQEVQEAMIFENRYTQYTMETLRVGEQLLTSIH
RNINEVENQILTRDSKGITQEQLNEFRFSFNHFDKKRTGRLAPEEFKSCLVSLGYNIRND
DRPEFRILAIIVDPNKTGYVHFDALDFMTREYTDTDTAEQMIDSFILAGDKPYITADE
LRRELPPDQAEYCIIRRMTPYNGQCAVPGALDYRSFSTALYGESDL

>Accession|NP_001003242.2|epididymal secretory protein E1
precursor [Canis lupus familiaris]
MRLLVAAFLLLALGASALAEVHFKDCGSVAVGIKELNVNCPAQPCKLHKGQSYSVNVT
FTSNIPSQSSKAVVHGIVLGVAVPFPPIPEADGCKSGINCPIQDKTYSYLNKLPVKNEYF
SIKLVVQWMLLGDNNQHLFCWEIPVQIEG

>Accession|NP_001005208.1|serum albumin precursor [Sus scrofa]
MKWVTFISLLFLFSSAYSRGVFRRTDYKSEIAHRFKDLGEQYFKGLVLIAFSQHLLQCCPY
EEHVKLVRVTEFAKTCVADESAENCDSIHTLFGDKLCAIPSLREHYGDLADCCEKEEP
ERNECFLQHKNDNPDIKPKLPDVALCADFQEDQKFWGKYLVEIARRHPYFYAPELLYY
AIIYKDFVSECCQAADKAACLLPKIEHLREKVLTSAAKQRLKCAISIQKFGERAFAKAWSLA
RLSQRFPKADFTEISKIVTDLAKVHKECCHGDLLECADDRADLAKYICENQDTISTKLKE
CCDKPLLEKSHCIAEAKRDELPAADLNPLEHDFVEDKEVCKNYKEAKHVFLGTFLYEYSRR

HPDYSVSLLLRIAKIYEATLEDCCAKEDPPACYATVFDKFQPLVDEPKNLIKQNCSELFELK
LGEYGFQNALIVRYTKKVPQVSTPTLVEVARKLGLVGSRCCKRPEERLSAEDYLSLVL
NRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALTPDETYKPKFVEGTFTFHADLCTLP
EDEKQIKKQATALVELLKHKPHATEEQRLRTVLGNFAAFVQKCCAAPDHEACFAVEGPKFVI
EIRGILA

>Accession|NP_001036878.1|27 kDa glycoprotein precursor [Bombyx mori]

MMWKTVLITIFAAGVLADDFSQITAVVTSQCTKNNAEDKVPEVEAALRTFGNCLKGLVDL
NVLKTEIEEAKPNGALDEVFKKYCDKSAQLKGCISSVLQGVPCVGNAYANHINDAQNST
NQLIDFVICYKDGDRALFIAEGGPECFQKKTENLKTCLNLKQSFPTVESANNLSLVEKC
AKVDEMTSCIVKSLEECSTPTPANMAESLIKFMRKDSPCHTALPKTD

>Accession|NP_001037083.1|thiol peroxiredoxin [Bombyx mori]

MPLQMTKPAPQFKATAVNGEFKDISLSQYKGYVVLFFYPLDFTFVCPTETIIAFSEKAD
EFRKIGCEVLGASTDSHFTHLAWINTPRKQGGGLGPMNIPLISDKSHRISRDYGVLDDEETG
IPFRGLFIIDDKQNLQRITINDLPVGRSVEETLRLVQAFQFTDKHGEVCPANWRPGAKTI
KPDTKAAQEYFGDAN

>Accession|NP_001316123.1|non-specific lipid-transfer protein precursor [Solanum lycopersicum]

MKAIAILVLVLAFLAVFQLAMVARGAITCGQVDANLAPCVPFLLTQGGEPGAACCSGVRTLNG
NTQSSDDRRRTACNCVKAAANRYPNLKDDAAQSLPSKCGISLTVPISRTVNCDTIS

>Accession|P13080.1|Probable maltase [Aedes aegypti]

MKIFVPLLSFLLAGLTTGLDWEHGNFYQVYPRSFKDSGDGIGDLGDVTEKLYLKDIG
MDGVWLSPIFSSPMADFGYDISNFREIQTEYGDLDLDAFQRLSDKCKQLGLHLILDFVPNHT
SDQHEYFKKSVQKDETYKDFYVWHPGVHGNNTKVPPSNWISVFRGSSWEWNEERQEFYL
HQFLKEQPDNLNRYNPAVVEEMKNVLRWLDRGVSGFRIDAVPYLFESDIIDGRYRNEPES
RTTDDPENPAYLVHTQTMDQPETYDMIYQWRAVLDEYSKTDNRTRIMTEGYTSLPKIIE
FFGNATANGAQIPFNFEVINSVKKNSTGADFATYVWRWLDKAPANRRSNWVLGNHNDNRL
GSRLGENKIDLYNIALQTLPIAVTYGEEIGMLDQWIPWNETVDPAACRSDEASYSAYS
RDPARTPMQWDSGKNAGFSKAAKTWLPVADNYKTLNVKIQDRARKSHLKIIFKKLTKYRKR
QILTEGDIDIKVSGENLLVYKRKVDKVGIVVVALNFGTEPVALGLSSLFDRADQRMQVVV
SSNRVSTPDNVWVDVDNYVLIGESGIVLQYLWGKNPIVS

>Accession|P29022.1|Endochitinase A; Seed chitinase A [Zea mays]

MANAPRILALGLLALLCAAAGPAAAQNCGCQPNFCCSKFGYCGTTDAYCGDGCQSGPCRS
GGGGGGGGGGGGGGGGGANVANVVTDAFFNGIKNQAGSGCEGKNFYTRSAFLSAVNAYPG
FAHGGTEVEGKREIAAFFAHVTHETGHFCYISEINKSNAYCDASNRQWPCAAGQKYYGRG
PLQISWNYNYGPAGRDIGFNGLADPNRVAQDAVIAFKTALWFWMNNVHGVMPQGFATIR
AINGALECNGNPAQMNRVGYKQYCCQLRVDPGNLIC

>Accession|Q75GX9.1|63 kDa globulin-like protein; Oryza sativa GLP63 [Oryza sativa Japonica Group]

MATRARATILLLLAAVLFAAAAAASGEDRRRRETSLRRLQRCQDRPPYERARCVQECKD
QQQQQQERRREHGHDDRRDRDRRGESSEEEDEGRERGRSRRRPYVFGRRSFRQVVRSD
QGSVRLPPFHQASSLLRGIKNYRVAVLEANPRSFVMPHTHTDAHCICYVAQGEVVAIIE
NGEKWSYAIRQGDVVFAPAGTINYLANTDGRRKLIIVTKILHTISVPGQIQFFAPGGRNP
ESFLSSFSKGVQRAAFKISEEKLEKLLGKQDKGVIIRASEEQVRELRRHASEGGHGHWP
LPPFGESSRGPFNILEQRPRFANRHGRLYEADARSFHDLAEHDIRVAVVNITAGSMNAPF
YNTRSVKVAVYVLDGEGEAEIVCPHLRSGRGGGESEERRRERGGKWKWEEEEEEEEQQKGQ
EEEEEEVQVGGYETIRARLSRGTVFVVPSPGHPIVVTSSRDSTLQIVCFDVHANNNERMYL
AGMNSVLKLLDPQAKELAFASAREVDELLNAQQESAFLAGPEKSGRRGEESEDEDRRRR
RSHRGRGDEAVETLLRMAAAAV

>Accession|Q7X7E6.1|17kDa alpha-amylase/trypsin inhibitor 1; Allergen=Ory s 17kD [Oryza sativa Japonica Group]
MASASDKLVLSAIVLAVLAAVVAAASGYGDVGEYCRVGKAVSRNPVPSCRNYIARWCAAA
GGRMDSRKQPPREFLEPCCRELAAVPMQCRCDALSVLVRGVVTEEGDRVSGMISQHAAPG
CDAATIAGMASALTDYGRCNLQHTAGSFACLMFGGGMD

>Accession|Q7X8H9.1|17kDa alpha-amylase/trypsin inhibitor 2; Ory s 17kD [Oryza sativa Japonica Group]
MALASDKFVLSAIVLAVLTVAAAAAGYGGYGDVGEYCRVGKAVSRNPVPSCRNYIARWCA
VAGGRLDGKQPPRQLLEPCCRELAAVPMQCRCDALSVLVRGVVTEEGDRVAGMISQHA
PGCDAATIAGMASALTDYGRCNLQHTGFFGCPMFGGGMD

>Accession|Q852L2.2|Cupincin; 52 kDa globulin-like protein; Ory s NRA [Oryza sativa Japonica Group]
MAKKKTSSSMARSQLAALLISLCSLNASNAVGSRRGEREEEDERRRHGGEGGRPYHLG
EESFRHWTRTRHGRFSVLERFPDEQVVGAAVGGYRVAVLEAAPRAFLQPSHYDADEVFYV
KEGEGVIVLLREGRRESFCVREGDAMVIPAGAIVYSANTHSSKWFRVVMMLLPVSTPGHF
EYFYPVGGDRPESFFSAFSDDLQAANTRREELEKVFERQREGGEITTAPEEQIRELSK
SCSRGGGGGSGSEWEIKPSSLTGKSPYFSSNHGKLFELTGDECRHLKLDLQIGLANITR
GSMIAPNYNTRATKLAIVLQSGYFEMACPHVSGGGSSERREREREHGRRREEEQGEHH
GERGEKARRYHKVRAQVREESVIVIPASHPATIVASEGESLAVVCFVFGANHDEKVFELAG
RNSPLRQLDDPAKKLVFGGSAAREADRVLAAQPEQILLRGP HGRGSVSDM

>Accession|Q9DG84.1|Snake venom serine protease serpentokallikrein-2 [Protobothrops mucrosquamatus]
MVLIRVLANLLILQLSYAQKSSSELVIGGDECNINEHPFLVLVYDDYQCGGTLINEEWVL
TAAHCNGENMEIYLGMSKVPNKDRRRRVPKEKFFCDSSKNYTKWNKDIMLIRLNRPVR
KSAHIAPLSLSPSSPVSVCIMGWGTISPTKVTLDPVPCANINLLDYEVCRAVYPEL
PATSRITLCAGILEGGKDCSGGDSGGPLICNGQFQGI VSWGGDPCAQPHEPGLYTNVFDHL
DWIKGIIAGNTDVTCP

>Accession|Q9YJ8.2|Venom plasminogen activator Haly-PA [Gloydius brevicaudus]
MALIRVLANLLILQLSYAQKSSSELVVGDECNINEHRSVLVLFNSSGLICSGTLINQEWV
LTAACHCDKSNFQMLFGVHKKILNEDEQTRDPKEKFCIPNKKKDDKDKDIMLIRLDSPV
SNSEHIAPLSLSPSSPTVDSVCRIMGWGTIKPADETYPDVPHCANINILDHTVCRAAYPV
LLAGSSTLCAGTQQGGKDTCVGDSGGPLICNGQIQGIVSWGAHPCGQGSKPGVYTKVFDH
LDWIKSIIAGNTAVT

>Accession|SHD75397.1|RNA dependent RNA polymerase [Sarcoptes scabiei]
MSARSAKFMYRSGNAGASGDLVVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSSESVEMNKKRDSSELAKLRKLLLEDVHLESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDEKQKQFAEVFELLAQLETANKEKLTAMKTVEKLEYTV
HELNIKIEEINRTVIELTSQKTRLSQENTELIKEVHEHKMQLDNANHLKQQLAQLEDTK
HRLEEEERKRASLENAHTLEVELESKLVQLDEESEARLELERQLTKANGDAASWKSKEYE
AELQAHADVEEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
THAQLEKRVQLEKLNLDLKNKLEEVTMLMEQAQKEARAKAAELQKLQHEYEKLRDQRD
ALARENKLLTDDLAECKVFRHHDARRSTNRRSKSNDWRTREKSYLLPTKKRKPYPANKRR
LRINDLPSWLKYDTITRNVWHRKRKSKHLENNIKSRSNSLICDLKLNKPRSHDRNI
KLKSLNWNCHWMLPIKPIIYRKQSKNKPYPKLSFKHTMMRRQSNHCTGSSIGSHPKTMP
SVTSRAGRAKNRFGTSESCQTTSRTIAGSCRKSTYHHQCSCFSKQIGIGIRCSTKRLRSP
QRTQNFTSTETYHAQIYQGLISGGTGTISENGDRKEIFGARSSYPTCPYRRGRSQCFGWR
TCHCTGEQNSCDRSGRGTKTTRDGKNAKRSSTQGI V GAKRGGPQTNPIASRNGRQNERK

GQSLTTNARTGGNEPTKSDSCSTLPTIGSCRSSGSSIKSIVHPCQTPF

>Accession|XP_015646887.1|PREDICTED: casein kinase II subunit alpha [Oryza sativa Japonica Group]
MSKARVYTDVNVLRPKEYWDYEALTVQWGEQDDYEVVRKVGGRGKYSEVFEGINVNNNEKC
IIKILKPVKKKIKREIKILQNLGCGPNIVKLLDIVRDQHSKTPSLIFEYVNNNTDFKVLVY
PTLTDYDIRYYIYELLKALDYCHSQGIMHRDVKPHNV MIDHELRLRLIDWGLAEFYHPG
KEYNVRVASRYFKGPELLVDLQDYDYSLDMWSLGC MFAGMIFRKEPFFYGHNDHDQLVKI
AKVLGTDLSNSYLNKYRIELDPQLEALVGRHSRKPWSKFINADNQHLVSPEAIDFLDKLL
RYDHQDRLTAREAMAHPYFLQVRAAENSRPRAQ

>accession|AHA56102.1|Amb a 11 cysteine protease [Ambrosia artemisiifolia]
MEINKLVCFSFSLVLILGLVESFHYHERELESEEGFMGMYDRWREQHNIEMRSPERFNVF
KYNVRRIHESNKMDKPYKLVNEFADMTNLEFVNTYANSKISHFQALRGSAPGSIDTDPN
KDFIYANVTKIPDKVDWREKNAVTDVKGQGGCGSCWAFAAVVALEGINAIRTGKLVKFSE
QQLVDCDMTNAGCDGGLMEPAFTYVIKHGGIAPEASYPYVGKRETCDAKIKDVLKIDGR
QNVPLGDEEALRKAVAHQPVATGIQLSGHGLQFYSEGVYTGDCGTEPNHGVGIVGYGENE
KGIKFWTVKNSWGPTWGEKGYIHLQRGARKEGLCGVAMHSSFPIMNDPNPPKDDPNPKD
DPDAPKDPKFKTTQRLQGIRTKLLEL

>accession|5X7Y_A|Lipocalin, putative Can f 6, Chain A [Canis lupus familiaris]
GSHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVKDIEVLSNSSLIF
TMHTKVNKCTKISLICNKTEDGEYDVVHDGYNLFRIIETAYEDIIFHLNNVNQEQE
FQLMELYGRKPDVSPKVKEKRVRYCQGMEIPKENILDLTQVDRCLQARQSEAAQVSSAE

>accession|COMPARE008|Putative Ara h 15.0101 [Arachis hypogaea]
MSDQTRTGYYGGGSSYGGGGTYGSSYGTSYDPSTNQPIGAGHHHHHHGAGGKHPAGS
DRLDYAKGVIADKARDVKDRAKDYAGAGRAQEGTPGY

>accession|AAV83993.1|Arginine kinase Putative Pen c 2 [Penaeus chinensis]
MADA AVIEKLEAGFKLEAATDCKSLLKKYLT KAVFDQLKDKKTS LGATLLDVIQSGVEN
LD SGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVTSFVNVDPEGKYV
ISTRVRCGRSMEGYPFNPCLTEDQYKEMESKVSSTLS SLEGELKGTYYPLTGMGKEVQQK
LID DHFLFKEGDRFLQANACRYWPSGRGIYHNDNKTF L VVWNEEDHLRIISMQMGGDLG
QVFRRLTS AVNEIEKRIPF SHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANRDKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>accession|COMPARE001|Bla g 9.0101 arginine kinase [Blattella germanica]
VDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPTFGSTLLDVIQSGLENH
DSGVGIYAPDAEAYTVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYII
STRVRCGRSMQGYFPNPCLTEAQYKEMEDKVSSTLSGLEGELKGFYPLTGMTKEVQQKL
IDDHFLFKEGDRFLQHANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLGQ
VYRRLVTAVNDIEKRVPF SHDDRLGFLTFCPTNLGTTVRASVHIKVPKLAADKKKLEEVA
GKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKIESSL

>accession|ABV55108.1|Catalase 2 [Musa acuminata AAA Group]
MDPYKFRPSSSFDNTNFTT NAGAPVWDDQALTVGSRGPILLEDYHLVEKIAHFARERIP
ERVVHARGASAKGFFECTHDVTHLTCADFLRAPGVQTP IILRFSTVIHERGSPETIRDPR
GFAVKFYTREGNWDLLGNNFPVFFIRDGIKFPDVIHAFKPNPKSHVQEYWRVDFLSSHHP
ESLHTFFFLFDDVGVPSDYRHMEGFGVNTYTFVSKEGKVNYVKFHWKPTCGVKCLEDEA
IVVGGKNHSHATQDLYDSIAAGNYPEWKLQVQVMDPDTEDRYDFDPLDDTKTWPEDLLPL

QPVGRLVLRNIDNFFSENEQLAFGPGLVVPGIYYSDDKMLQCRVFAYGDTQRYRLGPNY
LTLPVNAPKCAHHNNHYDGLMNMVHRDEEVDYFPPSRHASLRHAERFPIPNRVVTGKREKN
VIPKQNDFKQPGERYRSWAPDRQERFVRRWAEQLAHPKVSVELRSIWISFLSKCDTSLGQ
KVANRLNMRANI

>accession|ACV85695.1|Cari p 1.0101 polygalacturonase 2 [Carica
papaya]

MAVLYYDNYNRTHLLILSFSILFFSFSSRLVNSGFHGERRRERVHGYHYDELNNFSEDQE
GGLTLLSGAGYDPEAHPFLSSINGDRDEEFTEAEPVLSFKGIEDLRSAPRSVIFNVD
DFGAEGDGIHDDTQQVFEEAWEKACSYKGPALFLVPERRTYLIGPIRFLGPKCSNLVIQV
QISGTLASDNRSDYRKDPRHWIVIDSVDNLLVEGGGTIHGNGQIWRNSCKAPCKEAPT
VTFYKCKNLMVRNVKVQDAQMQVSEFEKCEVTASDLTDTAPEKSPNTDGIHVTNTQNIL
ITNTFIGDDCISIESGSHNVQIEELTCGPGHGINVDSLGDNNSKAFVSFVTVNGAKLSG
TTNGVRIKTYQGGSGSASNIKFQNVDMENVKNPIIIDQNYCDQKKPCKKQKSAVQVKDV
LYQNIQGNSASDVAIDFDCSENYPCLVKLVNRLQADRVDDEEAKAICNHVELTETGVV
FPRCPDYHLKHDEL

>accession|AHY24648.2|Putative Can f 4 variant allergen
precursor, partial [Canis familiaris]

MKILLCLALVLASDAQPLPNVLTQVSGPWKTLVSSNNLDKIGENGPFRILYLRGINV
DIPRLKMLFNFYVKVDGECVENSVMGASIGRDNLIKGEYNGGNYFRIIDMTPNALIGYDV
NVDSKGGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIYILGDTDNCNPHE

>accession|COMPARE013|Der f 31 cofilin [Dermatophagoides
farinae]

MASGVIVATEAKTLYEEVKDKKYRYIIYHIKDERVIEVETTGPRDATYSDFVARLQDYK
NECRYCVDFDPANIPVEGGGEKSNMSVDRLVLMTCPESAKIKQKMLYSSSYDALKKALV
GVYRYVQACDYEEASEEAIAEAFRKG

>accession|AIV43661.1|Koc s 2.0101 profilin, partial [Bassia
scoparia]

MSWQTYVDDHLMCDIEGTTNHLTGAAILGVDGSVWAQSANFPQFKPDEIAAIVKEFDEP
GTLAPTGLHLGGTKYMVIQGEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTGQCN
MIVERLGDYLVEQGM

>accession|AIV43662.1|Aca f 2 profilin, partial [Vachellia
farnesiana]

MCWQTYVDDHLMCEIEGTTNHLGAAILGVDGSVWAQSASFPQFKPDEIAAVVKDFDGP
GTLAPTGLHLGGTKYMVIQGEPRFIRGKKGPGGICVKKTGQALVFGIYDEPVTGQCN
MIVERLGDYLVEQGM

>accession|COMPARE009|Putative Der p 23 [Dermatophagoides
pteronysinus]

MKFNIIVFISLAILVHSSYAANDNDDPTTTVHPTTTEQPDDKFECPSRFGYFADPKDP
HKRYICSNWEAVHKDCPGNTRWNEDEETCT

>accession|ANW82807.1|Venom allergen antigen 5, partial Putative
Poly p 5 [Polybia paulista]

NKYCNKCSKVAHTVCQYGESTKPSKCNKVSITSVGVTEEEKKLIVDEHNRFRQKVAQG
LETRGNPQPQPAASDMNNLVWNEDELAYIAQVWASQCQFFVHDKCRNTAQYQVGQNIAYSA
STAAYPGIVSLIVLWENEVKDFNYSQGITKENFSKVGHYTQVWVAKTKEVGCSSIKYIEK
GMKSHYLVLCNYGPAGNYMGQPIYTKK

>accession|AAP35068.1|Putative Der f 5 [Dermatophagoides
farinae]

MKFIIAIAVCTLAVVCVSGEPKKHDYQNEFDLLMQRIDHDMRKGEALLHLHQINTFEE
NPTKEMKEQILASEMDTIIALIDGVRGVLNRLMKRTDLDFERYNVEIALKSNEILERDL
KKEEQRVKKIEV

>accession|AAX34057.1|Putative Tyr p 5 [Tyrophagus
putrescentiae]
MKFAILALAFGLAVMAQGGPKVPAKGDFRNEFDHLLVSTLMEGMYKGEQHLLRLSEEIAH
LESTKTKVEQDRIVREIEVTVAFIEGGVVRVVEQELKRTDLNILERFNFEEVQALSKLLVK
DLKEAEVVKAVKTR

>accession|AAX34059.1|Putative Tyr p 21 [Tyrophagus
putrescentiae]
MKFVIALAALLAVACAAPTPKPARPTPAKGDFRNEFDHLIVAAAVQRFHDLLEEFLLKLSE
QVADLEKTKNREEKAKILREITIIDGLVVGGRTYFEKELKRTDLDLVEKFNFEAVLATIG
ILDRDLKALATRVNAIKV

>accession|AAV39514.1|0.19 family dimeric alpha-amylase inhibitor
[Triticum aestivum]
SGPWCYPGQAFQVPALPACRPLLRLQCNGSQVPEAVLRDCCQQLAHISEWCRCGALYSM
LDSMYKEHGAQEQAGTGAFPRCRREVVKLTAASITAVCRLPVVVDASGDGAYVCKDVAA
YPDA

>accession|Q4W1F6|Thioredoxin [Zea mays]
MASEQGVVIACHSKAEFDAHMTKAQEAGKLVVIDFTAAWCGPCRAIAPLFVEHAKKFTQV
VFLKVDVDEVKEVTAAYEVEAMPTFFHFVKNGKTVATIVGAKKDELLALIEKHAAPAPASA
SA

>accession|Q4W1F8|Expansin EXPB11 protein [Triticum aestivum]
MASSIAVAAALILCILVAHAHGCYAKHHAAPSATNSSWLDKATWYGPPHGAGPDDNGG
ACGFKNVNLPFSSMTSCGNQPLFKDGGKGCSCYQIRCLKSDHPACSGVPKTVIITDMNY
YPVSRYHFDLSTAFGAMAKDGRNDELHRHAGMINMQFKRVPCQYPGLTVTFHVEEGSNPF
YMAILVEYENGDDVDNQLDIMESRPNGGKMAPTGQWVPMKESWGSWRMDAHHMPKAPFS
LRITNESGKTLVAEQVIPIDWKPNKTYSSSLVQFH

>accession|Q4W1G2|Chromatin associated protein [Triticum
aestivum]
ANGDTAFKASGKNKTATGGVAKPKRAPTPFFAFLAEFRPQYMEKHPEAKGVAAVTKAAGE
KWRSMSDEEKAKYGGKKADAPASKAVNKKESTSSKKAKTGSDDVEDDGEDEE

>accession|ARQ16437.1|Art an 7.0101 galactose oxidase [Artemisia
annua]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPEIDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDAN
NQPDICYAHGIAYDWKTSKYRPLTLQGDWCSSGNLWPNGNLMTGGTFSGDKAIRVIAND
DPKGFDTTKIGALADTRWYSSNQVLPDGSVVVLGGRDSYSYEVPPQMEFKPKRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLANNRAITFEPATGKTVEKFPVLPGGSR
NYPPSGSAAFLPLKLTADNAPVIPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELTPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFSF
PYLDPALETERTQIDPANTDAVLKYGKPKFKITAALMEKQPLVLGEVKVTLVPPFTTHGF
SQNQRMIVPAITSVQNGVITAVAPPSGQIAPPGYYIMFVSHLGIPGAGIWHID

>accession|ARQ16438.1|Galactose oxidase [Artemisia argyi]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNPDAN

NQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGIWHID

>accession|ARQ16439.1|Galactose oxidase [Artemisia capillaris]
MASSIKTAILFLLPLLLAYSVLAAPDITDGGDKPGPLIDDGGGDKPVPGNNDGASDYAKP
AIEPEFMGEWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDAN
NQPDCYAHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSAVVLGGRDSYSYEIVPPQMEFKPKRFDLPFL
QQTTEPPLGPRPVENNLYPFQFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVVPEIVICGGNQPNAYELVDARHVTEKKFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLLHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS
PYLDPALEPERTLIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITGVENGVITAVAPPSGEIAPPGYYIMFVSHLGIPGAGIWHID

>accession|ARQ16440.1|Galactose oxidase [Artemisia gmelinii]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPEIDDGGGDKPVPGNNDGASDYAKP
AIEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGPSGYKLPEGTPCPINPDAN
NQPDCYAHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPKGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELTPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS
PYLDPALETERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAVAPPSGQIAPPGYYIMFVSHLGIPGAGIWHID

>accession|ARQ16441.1|Galactose oxidase [Artemisia
lavandulifolia]
MASSIKTVILFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNPDAN
NQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAALFPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVLGEVKVTLLYPPFTTHGF
SQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYILFVSHLGIPGAGIWHID

>accession|ARQ16442.1|Galactose oxidase [Artemisia sieversiana]
MASSIKTVILFLLPLLLAYSILAAPDITDAGDKPGPQVDDGGGDKPVPGNNDGASDYAK
PAIESEFMGQWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPINPDA
NNQPDCYVHGIAYDWKTSKYRPLTLQGDAWCSSGNLWPNGNLMATGGTFSGDKAIRVIPN
DDPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPKRFDLPF
MQQTTEPPLGPRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGS
RNYPSSGSAALFPLKLTADNAPVVPEIVICGGNQPNAYELVDARHVTEKQFLPALQDCNR
IKPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEPNLTPVLYT
PYKPMGQRFKELRPTTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS

PPYLDPALELERSQIDPANTDVVLKYGKPFKITAGLMEKQPLVVLGEVKVTLLYPPFTTHG
FSQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGIWHID

>accession|ARQ16443.1|Galactose oxidase [Artemisia vulgaris]
MASSIKTVVLFLLPLLLAYSVLAAPDITDGGDKPGPQVDDGGGDKPVPGNNDGASDYAKP
AFEPEFMGAWVIDNPNAGVAAMQLQLMPNDQIVWFDTTSLGASGYKLPEGTPCPNNPDAN
NQPDICYVHGIAIDWKTSKYRPLTLQGDWCSSGNLWPNGNLMTGGTFSGDKAIRVIAND
DPNGDFTTKIGALADTRWYSSNQVLPDGSSVVLGGRDSYSYEIVPPQMEFKPRRFDLPFM
QQTTEPPLGPRPVENNLYPFLFLLPDGNIFLFANNRAITFEPATGKTVKEFPVLPGGSR
NYPPSGSAAFLPLKLTADNAPVIPEIVICGGNKPNAYELVDARHVTEKQFLPALQDCNRI
QPMAADAAWIPEQNMPSPRTMGDLIHLANGDMLMLNGAKKGTSGWEDATEANLTPVLYTP
YKPMGQRFKELSPPTIARMYHSCSALLPDTRVLVAGSNMHQFYTFDTEFPTELVEKFS
PYLDPALEPERTQIDPANTDVVLKYGKPFKITAALMEKQPLVVLGEVKVTLLYPPFTTHG
FSQNQRMIVPAITSVENGVITAIAPPSGEIAPPGYYIMFVSHLGIPGAGIWHID

>accession|ATI08931.1|Der f 36 [Dermatophagoides farinae]
MKFYNILTVATIVILVAFFDNVHADSQAQEQRQLHHVDIDPSGKFLNNNCRLNCNIHG
QIYGHNINEGRTCMIGQTNVYVCQNGECVGHNRQHVGHIDIELISASLYEKANAYATVCIM
NNSLPISLPIQDRRNCISCSTHVKENTNYPVWNEVCVGSNNYLFVSDSRVTTEVWDHHS
NNNVFLGGVTLTIDQLVNHGDNHRQINLAMAGGHNPGQLSTRITWTQRT

>accession|ATI08932.1|Der p 36 [Dermatophagoides pteronyssinus]
MKFYNVLTITIGVILLSVFDNVQADTVAQEQRQLHHVDVDPSTQFLNNNCLLDCNIHG
KIYSHNMNEGRTCMVGRNTNYVCRNGQCVCVGNQHVGHVDIELISASLYEKANAYASVICN
NSMPISLPIQDRRDCITCSTQVRSNTNPIWNEVCTGSGNYLLVSDSRVAIEVWNHLGTS
NNIFLGGVSLTIDQLVNHGDNHRAINLAMAGNKPQLTTRITWTQRN

>accession|AUH28179.1|Pollen allergen, Putative Que m 1 [Quercus
mongolica]
MGVVAYESEDASVIPPARLFKAFVLDSDNLIPKVVPPQALKSTEIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTFSFSVIEGDALFDKLENVSTETKIVASPDGGSIVKSTCK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDGY

>accession|AUW37958.1|Per a 5.0101 glutathione S transferase
class delta [Periplaneta americana]
MTIDFYLLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPOHTIPTLNDN
GFCLWESRAILSYLADQYKDDSLYPKDAKKRALVDQRLYFDIRTLYHRFGEYYPIYFA
KQAADPEKMKLEEAFFELNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK

>accession|BBD75204.1|Apolipoprotein Putative Der f 14
[Dermatophagoides farinae]
MRLFALLFTAACLLGLGQAQHCTVACPNSIPQLINPKAQSTYVYTLDAKTVLTPRDSQKVT
IKADA EVAIVSACEAVLRLQNV AIDGVPNGAELASELASKSFAFGYFNIGRILGVC PANDD
QDWSLNIKKAIVSALQVQFDENKDKVEESDFSGRCPT EYRKIRNEDNMVMEKRKDLNLC
DDRRIDL RQTPDQALGQLKEMIRHYMHPMGSDLS CRM TLKDQVVSEVDCEERHVLVHRSH
KPVHLSYVKMMLKESKDGVAADLGQTDSEPKRPYLSFDHKHKNPTETDVVEVLKLCSEI
SEPQAS IETSFTFQKLVDKLRYSAEETASVDES VKTSVCPAHAYRI RELFLDASAF AAS
DGSIRTLVKAHENQELSITRSTALFTV VAMKAAPNKETVQVLLPVIASEKTIRPMLLGF S
VLVRRYCEKSADCASNSGVKDARDAYLARLATAK DANERITIVRALENLNVNTEGVDNMI
NAMDEI IKSDAEPALRAAAVNALSNDASHMDRYKSLVMDESMPNEARIAAFQKMMKNGGM
SHIKDLFTVKGECMKNYVLT YVDNLKSKNDLRRQTVSGDVELPEQPKREIGITRNIARE
YGPYTFEYDVIYPETHENVTRSINGRLIRAKNDQLKEIVEIQITQNGFERELTNAMALME
KKSFSQSIMQFVRDTLKMLAQIRKNADDNHHMKITVQINGKDVYYTDFVQDLKMKELI IK
RAEKI INEKKVDRSIGGVLLDSKLVLP TITGLPLMYKFGDNFLIRYDGEFSGEKGDRHIK

LNGGFVAGVYGQMKLLVKDQKMGYEYDGKLAYTPILDMDIQKKEHSLLLRFNTKDVERT
IMRFKQSLREKRATGEEKDYENEITPESRSDQCFSSFLLDYCRKASHIKGLIFPNVEYYV
VKPEKEVTALELLLKGETEDKTRRYVAELTAVGSPSNKQAKAQIEVTKGEEYKITLKSPE
HEFNTEFTIHADKNNLKMHMDFPNVQADLTGTFQHDKENNVRKNQLNLQYKFAGDEKPH
TVDYENEFNFLKRSSKDKNSGVDRAKYMSHFPILNHKVNIQFKYRPFKVNELNLEGE
FGRELQHKFQLMRNSQIEVEEVRPFKMHGNSDIKLMANDLDIDYDLKSEFKYESNKGTPI
ELQYKISGKDRSKRAADLGAEDVEGVIDYKNNGSPIDSKMHAHLKMKGNNGYDSELKQT
QPQQYEGKITLSKNDKKIFINHKSEMTKPTNTFHLKTDADVSYSDSDMKKHQMEFKKEN
DIYTMRSTVERNGQMFYENHLTIHKGKLNLYRRNDRKILLDLNALS PREGT M K L N I K
DREYNFVMKREPLRFRDITVEGNENAYIKNGKLLHLSLMDPSTLSLVTKADGKIDMTVDLI
SPVTKRASLKI DSKKYNLFHEGELSASIVNPRLSWHQYTKRDSREYKSDVELSLRSSDIA
LKITMPDYN SKI HYSRQGDQINMDIDGTLIEGHAQGTIREGKIHIKGRQTD FEIE SNYRY
EDGKLIEPVKSENGKLEGVLSRKVPSHLTLETPRVKMMKYDRYAPVKVFKLDYDGIHF
EKHTDIEYEPGVRYKIIIGNK LKDDGRHYSIDVQGI PRKAFNL DADLMDFKLK VSKPEDS
NKAQFSYTFNEYTETEYEFDPH RAYVNW LSSIRKYIQNFIVEDN

>accession|BBE74942.1|Putative Cry j 4 [Cryptomeria japonica]
MTATAMTTAALRLLIALLLLVAAPAECLPLRARGRWIVDEATGLRVKLACVNWPVGHLEPGL
PEGLNRLPVTTIAHTISSLGFNCRVRLTYSIQMVTEKSYTEATVGTQFAQLNLTEPASGIE
GNNPGFLQLGHVAAYSIVAALAEAGVMVILDNHVSKPKWCCAVDDGNGFFGDSYFDPRL
WQRLGLMATHFNNTPNVAMSLRNELRGNRST SARWSKYMQRGAATVHEANPNVLVLS
GLHFDTILSFLPVLPVTLPFKEKIVYEGHWYSFGVPWHDGLPNDICLNETS R F K D N I G F L
TSSINGTAAPLFVSEFGIDQRYVNDNDNRYLNCILAF LAEEDVDWALW TMGGSYNYRSDK
EPVQDFEETYGFFNRDWSRIRNPDFISRLKEIQQPIQDPYLSPGPYQIIYHPASGLCVE
SSIGNTIHLGSCQSVRSRWNYDASVEGPIGLMGSSSCISTQGNGLPAIMTEKCSAPNNTL
WSTVSSGQLQLGTRVDFEDGKEKWMCLDGRSPLITTECICITD SHCYPNQNP EKQWFK
VITTNKQLLHQL

>accession|COMPARE010|Chao 3 Glycosyl hydrolase 5 family
[Chamaecyparis obtusa]
MTSAGVAPTALRLLTALLLLLVAAPSHSLPLLRGRWIVDEATGLRVKLACVNWPVGHLEP
GLPEGLNRLPVATVAHTISSLGFNCRVRLTYSIHMLTRTSYTNATVAQT FARLNLTEAASG
IEHNNPELLDLGHVAAAYHHVVAALSEAGVMVILDNHYSKPKWCCAVDDGNGFFGDRYFNP
NTWVEGLGLMATYFNNTPNVAMSLRNELRGNRSTPISWSRHMQWGAATVHKANPKVLVI
LSGLQFDTDL SFLPVLPVTLPFKEKIVYEGHWYSFGVPWRTGLPNDVCKNETGRFLSNVG
FVTSSANATAAPLFMSEFGIDQRYVNDNDNRYLNCILAYLARRDLWALW TMGGSYYYRS
DKQPVKDFEETYGFFNHDWSRIRNPFISRLKEIQQPIQDPYLAPGPYYQIIYHPASGLC
VESGIGNTVHLGSCQSVRSRWNYDASVKGPIGLMGSSSCISTQGNGLPAIMTENC SAPNN
TLWSTVSSAQLQLGTRVLGKDGKEKWMCLDGSKSPLISTNECICITD SHCYPKLNPEKQW
FKVITTNKQLLHQLQL

>accession|SHD75396.1|Tropomyosin Putative Sar s 10 [Sarcoptes
scabiei]
MYEAIKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRGLQKKIQQIENELDQV
QEQLSAANTKLEEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHRSITDEERMDGLENQLKEARMMADADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKAQQREEAYEQQIRISTAKLKDAEARAE
FAERSVQKLQKEVDRLLEDELVHEKEKYKSIDELDQTF AELLAI

>accession|COMPARE002|Protein of unknown function, partial
[Sinapis alba]
SPDSDLEAFSHNPAHGSFAPLAFQPSAMTNCANQRFLSY

>accession|COMPARE003|Protein of unknown function, partial
[Sinapis alba]

ITLKVVFHLLRRSSHLFYTSQVISQSRTRVKLNRVFFPR

>accession|COMPARE004|Protein of unknown function, partial
[Sinapis alba]
IKARLRNRSRRRCRKTVA

>accession|COMPARE005|Protein of unknown function, partial
[Sinapis alba]
GKETNKDSLNGERTGKSPA

>accession|P02845|Vitellogenin-2, partial, YGP40 fragment [Gallus
gallus]
AEAPSAVLENLKARCSVSYNKIKTFNEVKFNYSMPANCYHILVQDCSSELKFLVMMKSAG
EATNLKAINIKIGSHEIDMHPVNGQVKLLVDGAESPTANISLISAGASLWIHNENQGFAL
AAPGHGIDKLYFDGKTITIQVPLWMAGKTCGICGKYDAECEQEYRMPNGYLAKNAVSFGH
SWILEEAPCRGACKLHRSFVKLEKTVQLAGVDSKCYSTEPVLRCAKGC SATKTTPTVTVGF
HCLPADSANSRLTDKQMKYDQKSEDMQDTVDAHTTCSCENEECST

>accession|Q647G8|Ara h 7.0301 2S Albumin [Arachis hypogaea]
MVKLSILVALLGALLVVASATRWDPDRGSRGLRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEQEQQEQDEYPYSQRGSRGRRPGESDEDQEQRCNELNRFQNNQRCMCQALQQIL
QNQSFRFQQDRSQLHQNGEGAQELAPELRVQVTKPLRP

>accession|COMPARE014|Mes a 1 [Mesocricetus auratus]
HYQNLEVPSPSEVDGKWYSLYIAADNKEKVSEGGPLRAYIKNVECIDECQTLKITFYTKVE
GVCQEHTIVGRKGEDGKYITDFSGQNYFHIVEKSDDTMTFHNVNVDSDGKTNVILVVGRG
ESSSIEQKQRFEKTAEEYDIPKENIEDLVPTDNC DQ

>accession|COMPARE006|Putative Que m 1 [Quercus mongolica]
MGVVAYESEDASVIPPARLFKAFVLDSNLI PKVVPQALKSTEIIEGNNGGPGTIKKITF
EGSHLKHAKHRIDVIDPENFTFSFSVVF GDALFDKLENVSTETKIVASPDGGSIVKSTCK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDGY Y

>accession|ANW10058.1|Ras k 1 parvalbumin [Rastrelliger
kanagurta]
MAFASVLKDAEITAALDGCKADGSFDHKKFFKACGLAGKSGDDVKKAFAIIDQDKSGFIE
EEELKFLQNFKAGARTLSDAETKAFKAGD TDGDGKIGVDEFAAMIKG

>accession|COMPARE007|Putative Que a 1 [Quercus alba]
MGVF TYESEDASVIPPARLFKAFVLDSNLI PKVVPQALKSTEIIEGNNGGPGTIKKITF
GEGSHLKHAKHRIDVIDPENFTYSFSVIEGDALFDKLENVSTETKIVASPDGGSIVKST
SKYQTKGDFQLTDELIRGGKEKASEVFKAVEAYLVAHPDLYKP

>accession|COMPARE011|Putative Mal f 7 [Malassezia furfur]
MNNEKYCSVADYDVKWFKERCSHPTDVKTTKWIAGTDLKIEMDPKPEYELYCFNYTTTF
GNLPDAGAKELDDDATKKAC SALKSGKYQSDPKKSCRMDKKDIDQFKEQCSQYQPSDRP
PYGDWSAGTSLNVVLNLK KNA

>accession|COMPARE012|Tropomyosin [anisakis pegreffii]
MDAIIKKMRKAMEIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLDK
AQEDLSTANSNLEEKKEYQEA EAEVAALNRRMTLLEELERAEERLKLATDKLEEATH T
ADESERVRKVMENRSFQDEERANTYESQLKEAOMLAE EADRKYDEVARKLAMVEADLERA
EERAEAGENKIVELEEEELRYDGNLKSLEYSEEKALQREDSYEEQIRTVSARLKEAETRA
EFAERSVOKLOKEVDRL EDELVHEKERYKSISELDLLQELSGY

>accession|XP_001732036|Protein of unknown function [Malassezia globosa CBS 7966]
MVSLNIFSAAFVASLASAVFAAPSALERRAAPDNTVWVTSVADHCLILPRHKMSVGDSES
PGNMRSFCTKPYSSKQGLASDFWTKAHFKKTDKYVQITGCINPNVQSTLLSNDEGGQYD
SNGGEGGRGNPAGSVCLGYSSYVELVEPAGNRACIRCCYDPSDCDVSQDEAGCETVIPGK
YDC

>accession|XP_015174445.1|Pol d 3.0101 venom dipeptidyl peptidase IV [Polistes dominula]
MISLRSFVFLNGFIFVLLTGRTVSYVLDKDNLDREVVFRTQDDSNFPKRPFQLEETYTADY
LPRNFNGTWTSDTTLIYISETVGEILQFDVVKQQSTVIIDVSIFDDYLVESYLLSPTGRF
LLIGYDLQKGFYSTFMRYVIYDTELGQYDKIGNGMHIALVRWAPLTDDLIIYILDNNIYY
KRFSKNGFNDVQRVTDDGIAGIIYNGVADWVYEEVVLHGSSAIWFSPDGKRLAYATFDDR
KVHEILYLHYGEPGSLGDQYPTVEVKIKYPKAGTPNPVSLTLVDLHDPTLNKINLEAPVD
IVGIDNVLTNVQWKDFNTIIATWSNRVQNETEIVWYNVYGETVETLHIEEPEGWVDIKNL
FFYNGSTYMRKLQQSGTKAGRFHHVTRYEKVGSTLIQKDLTPGAIEVQDIRAIDHFNGRI
YYLASGPGEPSQRNLYSVPADGSKEPTCISCNVITPEGNQCKYADVSPFSPFRSYALVCQ
GPDPTFIDIFDSNHRKIFSWEHNLMLRRLTKRELPIVKDLYVHANGYDSKVRLLLPHNF
DEKSYPLVNVYAGPNTAKINDAASYSYQSYMTTNRSVIYAYIDGRGSSNKGSNMLFEI
YRNLGTVEVEDQITVTRKLQEMYSWIDSKRTAIWGSYGGFCTAMVLAKDVDSVFKCGIS
VAPVSSWIYYDSIYTERFMGLPTPEDNLKGYDGTDVSRRVEGIRGKKFMLIHGTGDDNVH
YQQLALAKSLEESDILFEQITYTDEAHALYGVLPPLYHSMDFWSECFWSNTH

>accession|XP_016648029.1|Prun m 7 dipeptidyl peptidase IV [Prunus mume]
MKLGFATFLLVCLLLSSSVFEVTMAGSSFCDKCGVRCCKAGYQERCLKYCGICCEKCHC
VPSGTYGNKDECPCYRDLKNSKGNPKCP