

540 * 560 * 580 * 600 * 620 *

84 platyve : -----KIIPGEVEQPDSPHFQAAFRG--NELHCGGVLVNRNWLTAACHKL-----PEYQVYLQCHNLKAKEKGGQVIRARTSYRHFNYSTE----- : 81

83 platyve : -----EKIIACEKCKEDGHPYQAVYRG--GGLLCGGVLHPGWVLTAAHCRK-----PQIQVLLGKYNLHKQEEFQQLSPVAQPFPHPDYDRG----- : 101

33 platyve : HCDGGLCAPTRNIIIGFNSVEGEWFWQASCAQ--GRHTCCGGSLIADRPVLSAAHCFQKDSLALFAVWTVYLLGKLQONSSRASVSFKVSRLLLHPYEEED----- : 629

63 platyve : -----FFVTVDDGTIT-----LPISQARNLGDIVDSVFSFTPHIQSVTNICR-----SHLHNIKAIHPFLSIQ-TAIVLSILHSTARIIFLQK----- : 116

37 platyve : ----- : -

Gilatoxin : -----IITGGQECDETGHPWLALHRS--EGSTWSGVLLNRDWLTAAHCEE-----LGPMKICFEMKNRNVLRGDEQVKVAAVKKCYPATAGT----- : 81

Q8JH85snak : -----ELVIGGRPNINQHRSLALYNS--SGFFLCGGTLINQVWLTAAHCDK-----ENMQIYLLGHNFSPLNMDQKRRVAEEKFFCLNSKSY----- : 104

P81661snak : -----VIGGDECDINEHFFLAFYYYS--PQYFCGMLINQVWLTAAHCDK-----TYMRIYLGHTRSVANDDEVIRYPEKEKFIQPNKKKN----- : 80

Blarinatox : -----SRIIGGWECDDKHSQPWQALTFTRKHNSVCGGVLVHSGVLTAAHCGIG-----DNYKVLGLLHRSSESTVQEARVSARFPHPLYNMTLLNLL----- : 116

Blarinasin : -----PRIVGWECDDKHSQPWQALTFNTGLDGVCGGVLVHSPVLTAAHCYK-----DNYKIKLGLHDFRSKDDPQFQVQASASFPHPSYNMRLKLL----- : 115

P35030huma : -----DKIVGGYTCENSLPYQVSN--NSG--SHFCGGSLISEQVWVSAAHGIG-----TRIQVRLGEGHNKIKVLGNEGQFINAAKIIRHHPKYNRD----- : 159

Q9P0G3huma : -----NKIIIGCHTTRSSQPWQAAIAGPRRRFLCGGALLSGQVWVITAACHGR-----PILQVALGKHNLRWEATQVVLVRVVRQVTHPNYNSR----- : 122

g l w aahc g

640 * 660 * 680 * 700 * 720 * 740 *

84 platyve : -----THVNDI-----MLIRIDRAASLTGRIRP--LPITSCDKPKGTCTVSGWGTTS-----PE----- : 130

83 platyve : -----RHDNDI-----MLIRIAHPTPVSRHIKP--LSIETDCNANSSSCLISGWGKTRD-EGQYP--GRGGCKKPSQNRSGGLPLPLETEM----- : 178

33 platyve : -----THDYDV-----ALLQIDHPVVRSPVVRRLCLPAPTHFFEPGLKCVTVGWGA-LR-EGGSF--SNTLQKVDVQIVH----- : 695

63 platyve : -----CFKNVA-----PLIKNLQWLPLVDLRMKQKLLTGFKAVHPVAPSYLSLLS FYC-LPPIF--PSELQCVELQILP----- : 183

37 platyve : ----- : -

Gilatoxin : -----IYNCNYVNTVLMNNDILKRELFPMLIKIDSSVDYNERVAP--LSPTSFASLGAECVSLGWGTTTP-DDVTL--PDVPVCVNIEIFN----- : 163

Q8JH85snak : -----TKWDKDI-----MLIKINRRYKTSHTIAP--LSIPSNPPRLRSVCRIMGWGSIIT-PRETL--PYVPHCANIMILR----- : 170

P81661snak : -----VITDKDI-----MLIRINRPVKNSTHIAP--LSIPSNPPSVGSVCRIIMGWGAIT-SEDTY--PDVPHCANIMILN----- : 146

Blarinatox : LSHKMNLTFYKTLFLGADFSDH-----MLIRIDQPPVQLTAVQV--LDIPTQBPQVGSSTCHVSGWGRTSQNYENSFVLPEKLQCVETTLIS----- : 201

Blarinasin : LSDELNDTYDDEISLGADFSDH-----MMMLQIEKPPVQLNCAVQV--LDIPTQBPQVGSSTCHVSGWGRTSQNYENSFVLPEKLQCVETTLIS----- : 199

P35030huma : -----TLDNDI-----MLIKISSPAVINARVST--ISPTTTPPAAGTECLISGWGNTLS-FGADY--PDELKCLLAPVLT----- : 224

Q9P0G3huma : -----THDNDI-----MLIQIQQPARIGRAVRP--EVTTCACASPGTSCRVSGWGTISS-PIARY--EASLQCVNINISIP----- : 187

d l c gwg

* 760 * 780 * 800 * 820 *

84 platyve : -----DGGGFLDVPD-----PKDLDI----- : 145

83 platyve : GRGSGSGKETLYNRISR-NVPCQRSEQMGRDFCLGDSGGPLVCGGR-----LRGLVSWGEVPCGTGEKPGVYTVCRYVDVIRETIRGN----- : 261

33 platyve : -----QDLQDEAYRFSITP-RMMCAGYRKGKDKSCQGLGDSGGPLVCGEPKSGRWFLIAGLSWG-LGCGRFPNYHGVYTRISRVLDVIRKQMS----- : 777

63 platyve : -----NEICDIAHPEKVTE-FMLCAGLMQGGKDKSCQGLGDSGGPLVCGNT-----LQGLISWGHFPCGLPGKPLSTKVFAVYLDVIAKTMEDN----- : 263

37 platyve : ----- : -

Gilatoxin : -----NAVQVARDLWKFT-NKLCAGVDFGGKDSCKGDSGGPLVCDNQ-----LTGNVSWG-FNCEQGEKYG-VIKLIKFNFIQNTIIQGGTTCP----- : 245

Q8JH85snak : -----YWVCAIRAYGSLEAKSRTLCAGVPRRRIGSCLGDSGGPLVCGNQ-----IQGLISWGSDFPCVNHGAPGVYTKVFDYNDVIRQSIAGNTAATCPP----- : 258

P81661snak : -----NTVCREAYNGLFAK--TLCAGVLQGGIDTCGDSGGPLVCGNQ-----FQGLISWGSDFPCAEPRKFAFTKVFDYLDVIRQSIAGNTATATCPP----- : 232

Blarinatox : -----NNECSHAHMFVTE-AMLCAGHMEGGKDKSCGDSGGPLVCDGV-----FQGLISWGSDFPCQGGRPVYVVKVFLYISNIIQETIKHS----- : 282

Blarinasin : -----NNECSRSHIFKIDT-DMLCAGHIKGRKDTCCGDSGGPLVCDGV-----FQGTTSWGSYPCGKPRTPGVYVVKVFSHVDVIREIATHS----- : 280

P35030huma : -----QAECKASYPGKITN-SMFCVGFLEGGKDKSCQGLGDSGGPLVCGNQ-----LQGVVSWG-HGCAWKNRPVYTKVYNYVDVIRKIDTAANS----- : 304

Q9P0G3huma : -----DEVQKAYPRITTP-GMVCCAGVPQGGKDKSCQGLGDSGGPLVCRGQ-----LQGLISWGMERCALPGYPGVYTVNICKYRSNIEETVRDK----- : 267

c c gDsggP 6c g swg c pg y wI