

The identification and expression analysis of chemosensory receptor genes in an aphid endoparasitoid *Aphidius gifuensis*.

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26 Short title: chemosensory receptor genes of *Aphidius gifuensis*

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28 **Footnotes**

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32 **Author Contributions** Z.-W.K., H.-G.T. and T.-X.L. conceived and designed the experiments.
33 Z.-W.K., F.-H.L. and X.L. performed the experiments. Z.-W.K., F.-H.L. and X.L. analyzed the
34 data. Z.-W.K., F.-H.L., X.L., H.-G.T. and T.-X.L. contributed reagents/materials/analysis tools.
35 Z.-W.K., H.-G.T., X.-F.J. and T.-X.L. wrote the paper.

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38 **The authors declare no conflict of interest.**

39 **The authors declare no competing financial interests.**

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63 **Table S5. The amino acid sequences of chemosensory receptors used in the present study.**

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65 **Table S1**

Complete Assembly		Protein-Coding Components	
		All Isoforms	Representative Isoforms
Total size	45,760M	41,541M	21,980M
Number of components	28,461	19,074	
Number of transcripts	38,848	28,390	19,074
Longest transcript	13,876bp	13,876bp	13,274bp
N50 transcript length	1,980bp	2,162bp	1,688bp
GC content	31.12%	31.54%	30.87%

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Database	Numbers of Unigenes	Percentage
NR_Annotation	26,969	92.0%
Nt_Annotation	21,411	73.0%
COG_annotation	11,086	37.8%
Swiss-Prot_Annotation	22,259	78.0%
GO_Annotation	12,552	42.8%
KEGG_Annotation	20,319	69.3%
All databases_Annotation	29,302	

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Type	Gene name	Primers
Odorant receptor	ORco1	F: ACAAAGAATCAAGGACTTGTGTCCG
		R: ACCAGTCCAACAAAGTGTTGACAGT
	OR18	F: AACAGGCTACAGTAAAATGGAACGA
		R: CATGCAAACACTTAAAGTGTCGACA
	OR28	F: TGCTCAATTTTTTAACTCTCTGGCA
		R: CAATGCACCACCATATGACAAACT
Gustatory receptor	GR1	F: CAGATTCTTTTCATTTTCCACCAAG
		R: ATCCACATTTGTGAACGGCAA
	GR3	F: GGACGGTGTCAACAATCCAATT
		R: CTCCATTTTCATTGTCAGCTCTGA
	GR4	F: ATTACGTAAAATGATAAACACCGG
		R: CTTATGGCAATTTACGTTCAACTT
	GR5	F: TTTACGATAATCGCTGTTCTTGAGC
		R: TTGACGAGATCACTTAGAATCGCAT
	GR6	F: ATTACAAATCAGCAAAAGTCCTCGA
		R: TGCAGCACTTATACCTTCCTGAAGA
	GR10	F: GGTTGTTCAACCATGCTATGCAAC
		R: CGTAACAGCACCAGCCATAGATGTA
Ionotropic receptor	Ir8a.1	F: AGAAAGTTTTTCAGAAAGTGTGCAGC
		R: CCGTTCTGAAGAGGATTTCCATTTT
	Ir8a.2	F: CACCATAAGTAAACCATGCACATTG
		R: AGAAAGTTTTTCAGAAAGTGTGCAGC
	IR25a	F: GCAACAGTCAATACCAAAAAGGACCC
		R: CTTCATGTGGCTCTGCACCATTTA
	Nmdar1	F: ATCAGTGTTGGAATTTGAGCCAGG
		R: CAATCCAAACATATCCAGCACCAG
	IR6	F: GACGGGAATTGATTTAATGCTTATG
		R: GCAACAAACCAATGACACCCTTTT
	IR3	F: TTCCATTTTCACTTTGTTGCAATGC
		R: TGCAGTTGACGACCTTGAAGATCTA

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Species	Odorant receptor	Ionotropic receptor	Gustatory receptor
<i>Bombyx mori</i>	72	11	56
<i>Chilo suppressalis</i>	47	20	NA
<i>Helicoverpa assulta</i>	64	19	NA
<i>Dendrolimus houi</i>	33	10	NA
<i>Dendrolimus kikuchii</i>	33	9	NA
<i>Plutella xylostella</i>	53	16	NA
<i>Manduca sexta</i>	47	6	NA
<i>Helicoverpa armigera</i>	60	19	NA
<i>Spodoptera littoralis</i>	47	17	NA
<i>Sesamia inferens</i> (Walker)	39	3	NA
<i>Agrotis ipsilon</i>	35	14	NA
<i>Ostrinia furnacalis</i> (Guenée)	56	NA	NA
<i>Sesamia nonagrioides</i>	13	15	NA
<i>Grapholita molesta</i>	48	24	4
<i>Spodoptera exigua</i>	10	6	6
<i>Spodoptera litura</i>	26	9	NA
<i>Cnaphalocrocis medinalis</i>	29	15	NA
<i>Heliconius melpomene</i>	68	NA	72
<i>Locusta migratoria</i>	142	32	75
<i>Pediculus humanus</i>	10	12	8
<i>Colaphellus bowringi</i>	43	9	10
<i>Anomala corpulenta</i> Motschulsky	43	5	8
<i>Tribolium castaneum</i>	265	23	220
<i>Leptinotarsa decemlineata</i>	37	10	NA
<i>Monochamus alternatus</i>	10	8	2
<i>Dastarcus helophoroides</i>	10	8	2
<i>Tenebrio molitor</i>	20	6	NA

<i>Ips typographus</i>	43	7	6
<i>Dendroctonus ponderosae</i>	49	15	2
<i>Dendroctonus valens</i>	22	3	4
<i>Apis mellifera</i>	163	10	10
<i>Bombus terrestris</i>	166	21	25
<i>Apis cerana</i>	119	10	10
<i>Linepithema humile</i>	337	97	32
<i>Camponotus floridanus</i>	352	46	31
<i>Harpegnathos saltator</i>	247	17	23
<i>Pogonomyrmex barbatus</i>	344	61	24
<i>Atta vollenweideri</i>	70	7	2
<i>Atta cephalotes</i>	215	21	25
<i>Solenopsis invicta</i>	333	17	219
<i>Microplitis mediator</i>	60	6	2
<i>Nasonia vitripennis</i>	225	47	10
<i>Acyrtosiphon pisum</i>	48	11	53
<i>Euglossa dilemma</i>	86	4	2
<i>Euglossa viridissima</i>	85	5	4
<i>Nilaparvata lugens</i>	50	NA	10
<i>Drosophila melanogaster</i>	62	66	73
<i>Drosophila simulans</i>	63	67	62
<i>Drosophila sechellia</i>	57	56	53
<i>Drosophila yakuba</i>	65	65	63
<i>Drosophila erecta</i>	62	63	54
<i>Drosophila ananassae</i>	68	62	64
<i>Drosophila pseudoobscura</i>	67	58	52
<i>Drosophila willistoni</i>	71	60	68
<i>Drosophila mojavensis</i>	62	56	50
<i>Drosophila virilis</i>	56	54	50
<i>Drosophila grimshawi</i>	66	62	66
<i>Drosophila ananassae</i>	64	46	62

<i>Anopheles gambiae</i>	75	46	61
<i>Culex quinquefasciatus</i>	178	69	65
<i>Aedes aegypti</i>	127	95	70
<i>Calliphora stygia</i> (Fabricius)	50	22	21
<i>Bactrocera dorsalis</i>	23	11	6
<i>Toxorhynchites mboinensis</i>	87	38	21
<i>Mayetiola destructor</i> (Say)	122	39	28
<i>Macrocentrus cingulum</i>	79	13	20
<i>Cydia pomonella</i>	58	21	20
<i>Conogethes punctiferalis</i>	46	7	NA
<i>Chouioia cunea</i>	16	5	17

80 **Table S5**81 **Odorant receptor:**

82 >AgifORcol

83 MMKTKNQGLVSDLMPNIRVMQMSGHFMFNYYSEGKKFLHKIWCCINLFLVVLQFAFCGI
 84 NLIMESDDVDDLTANTITILFFLHSIVKIIYFAARSKLFYRTLAIWNNPNSHPLFAESNARYH
 85 SIALTKNRLLFFIGAVTVLSTLCWTGITFVGESVKRRIDPDTNETMIIPRLMVRSFYPFD
 86 ASHGFLHIAMLAQFYWLFICMVDANS�DVLFCSWLLFACEQLQHLKAIMKPLMELSATL
 87 DTVVPNSSELFKAGSADHLRDTTGTAPPATPANGDNMLDLDLRGIYSNRQDFTATFRQTA
 88 GMQYNGGVGPNGLTKKQEMLVRSIAIKYWVERHKKHVRLVTAIGDAYGVALLHMLVTTI
 89 TLTLAYQATKVNGINVYAATTIGYLLYALGQVFLFCIFGNRLIEESSVMEAAYSCHWYD
 90 GSEEAKTFVQIVCQCQKAMSISGAKFFTVS�DLFASVLGAVVTFYFMVLVQLK

91 >AgifOR2

92 MVFFDNKNWLLTKVLLSVVGAWPFQSQQTRIVLGFSSILILSLIPEIFGLIKERQNSSTVIE
 93 CATIMMLHVAMLVYLTHVLLNHKKMKQLLMEIEQFWNSTLLKNEICILEKLTANRKFTH
 94 SYIWFVLVSTVLFASLPIIPKIMDIIVPLNESRPTIFIYQSEYFIDPIKYENLIFIHSYIGTMYPTI
 95 VLVGYDSLYSNLAQHSSCMFEIISNHVKNTQLADKNYGDNSLSQYDYDAIFYIDCIQRH
 96 RVAQKFTSTIKSVYNIPLFFMLFLNMIASLAGCQVLLTSDQPSQAMRFFMNAACALIHLY
 97 FLSWVGQKVIDSSSKLYQSIYQSEWYQANNTTQKFLIIFMMACREPCNLTAGKLWILSEN
 98 FTVVLKTAVSCFTLFRSTQ

99 >AgifOR3

100 MQLLQESFFILKCTGLWKPASCYGWRSWLYNLYIFIIRFNLWMFVITQSLALVLTNSIEDF
 101 TNILFLLSVLVVCGKINNMLSGRKLMDKLINSFNKYFPKPETDDEINIQRNFRINRINTIL
 102 YWAINGITAAVWCIRILLDLKPTYILPYGGWFPYDHTKPIIYWFTAVSQLMAPVMAANMT
 103 GGYDSFFCGLMMQLCAQVEILKHRFNKNLDNLEKKNLINLNPVHKNIIEKKIFSIIHHI
 104 AILRMAYDVNSFFSKIVFLQYSLSSIVLVASVYILAGLKPGSLQFTSGLIYLLCMFYQIALLC
 105 TSGHEISLAFEELGDSIYNSNWLNLTSNKSQKNMIIMMSRMLRPFVIKSGHFVTLNMDSLK
 106 YLVKLSYSIYNLL

107 >AgifOROR4

108 MDTSTPSYLAINKLLASLSGVWPHQPIVTKNIVFIIMLILTISQSYFQIYGAILARSNVDLFLE
 109 TIPNILVDFSVAAKVVNCFNFSKKMKKLLITLEKDWIKFNSEGEIQILNEHGVRARKLTLTY
 110 FSVICGTITPFMVIPLVPIIYNFAPANGTLPKQMLYAQYDYLFNLQVSYYPVLIHSYIATFAF
 111 INDIIAIDTMCMVFVQHGCALFSIIGYNLEQIEINSTIKNDINHSRFNDKAYHQMSECIRRHN
 112 HALKYAKLIEDAHNVSYFFQIGIDMICFSFTGFQIVDKLDTAPDVSIRFAAFTSTQLAGLFL
 113 SYPAQQLFDYSVKIYDDIYNAGWYKTSRTRKLFIIIMSMRSLIPCQITAGKFYVLDLANFG
 114 KIVKTSLSYITVLISMK

115 >AgifOROR5

116 MKKATSMETPQYLRFNKNLLACAGLWPHQQKLSKIIFFIILLFLIISQTAFAQIIGAILARENV
 117 DLFMEAIIPAILGGIAIAVKIMNFYLNHGKMKKLLVLIQNDWIEYKNGPESLILKKYAKFSN
 118 KLTLMYFGIHWSTMTPLTIPLVPLIFNIFVSQNNSIQRQHLYAQYEVFSDSKNYYPVLIHS
 119 YIGSFAFINAVVAIDAMITMYIEHACALFSIIGYNLQVMQNNHDVDVNLNPHEINDGAFKN
 120 VINCIKKHDRVLQYVKLLDNANSISYFFQLGIDIICLSFTGFQIATKIDNSPDAAAMRFAAYST

121 SLLVVLYFLSYPGQQLIDHSLKICHNIYKANWYCTSLRTRKLLIFMAMRSSIPCQITAGKLY
122 VMDITSFKLVVKTSISYVMVLLSVQE
123 >AgifOROR6
124 MDNSNNWIKFEKLLNLEKYILQIFGLRSMKTLFLNKPFAKNYETIYFSIPLTIMIGLIFLNIL
125 YVLSVWKDEVDSAINMISTIFNQFVVIPKGIIWIFYQEELYNILNNLHEKWNTSFTRTEIRD
126 QILKRAKKITKFRNIYVFSFALITITYMYPPIRNSLIYFNQNTNNSLDYSQTMWPTEVYPIKI
127 DTFFKYLCISTIEICQAFFYIIYCHVGDIFYIQIFTHISIQFQVLANDVITTVETKKNNGNSKTLL
128 IELISVMRHHQELYELIDKMNNQLYSPVIFVTFIIGSINICLNIFEQRAIDKGNYYDASRNVL
129 TVSICFGIIYCVQAQIICESAEIPEAIYNSQWSNIDKNSILTFQIIMSRCQQKLTCGAYGLVN
130 IDHEQITQVCRRTASFFVFLDSIQ
131 >AgifOROR7
132 MRTSYSNAAVHRRRIADASILGMKFSGFWNFSNNPNTIEKLFNLIYKYIMKLIYTFATTLVA
133 DLISNTDDLKIFIDGCGFFAGIFVIFKLTTFGIYENNINELIEKIFKPIDYLNKLNNDKDVTTLI
134 NENIFFERCTAYGFASLAVCLLITMIFFGNHKDGELPIRAKYFPNSTEGINYTTAFTIQTATGV
135 TIGLTGIMAMDTIVLGLCRWTKFQFDVLYSNFQHCDDIANSKKQQQKKLINNDKTGHN
136 NSEIFKNFVAFNSNENHHLGFSERFKICIKNHQRLIGIIESVNNLFGLNMFVQICGSSFIICFA
137 GYQALLGSNGMRDLMKFSCYCGTGFSQFLIWSYFGNNLLCQGDLLSDGQWFSGWEEKQN
138 SRDLKNLLTIPMIRTRKPLELKAMNFFTMSIETFMMILRASYSIFTLLRTMEMK
139 >AgifOROR8
140 MVKQFLHRKILNMQIDGLRLCGFWSLNPTLPAYVKILYYVYNKVVLVSFVLIFIGTLTADLII
141 NFNDLLIVTDDGCVLAGMMVILFKIYIFNDKQEKINQLVEKVYQPMDIKSSDPGVRSL
142 RISNFLEQLLFYFFIGLAIFLAFALLVLVPRQDGELPIRSAPFNTKISPKHEIGYFLQSAACY
143 GLFLIVCMDSMVTEMGRWINFRMKILTSNFRMCDKQHDGAFYSTDATFEFLKNTSIYQI
144 TDEHQKIRSFIPKLDENVNFEDSYQLRFKTCQLNHQDIIHAVDDLNAIFGSSMLMQLFASF
145 SMICLTGFQAVLGSTSKTSLMKFAVYLGAAFSQLANWCWIGNEISYESTILFESQWLSGWE
146 KQISDPSIRTLMTIPLIRTKKPLQLKAGKFYTMSTTTFTGILRNSYQFFALLTTATDAQRQ
147 >AgifOROR9
148 MVEFKEHIKKEDLKFETYLSRLFSILCFMKISPSYSELSFIKKLCSTCFVIISLGCATSGCILQ
149 IVSFKDVRDMPSFSQRVIELCFIGLGTWKYHHCILKFDSLKKIIELLNNCHQVGYLINNNDK
150 EYKIYHQEMLDKASEYFMIVWFPFTMLGVVQWCLTPLTSDFYINKDIDRNNKNMTLL
151 RSYPNGATFPIEIDTLTKYLLMFLFQSLGILFSAIGMSGCDVILISIIMYICAHRLYLNNCLIDE
152 NNIQLILKSKNPSEKLKEKLKNCVIFHDQILKVHENYLSYSNGAMFAQCIENIIALCLVSLQ
153 ASTMHYSPGIDFIVAFTSMIEYSMGIFIELFAFCYYGKLEELGHEVSDSFFSSNWEKCNDK
154 IQIKIQNILKLIGIMRSQKPIIITGGPFYIFNLETFKKLAYMSISNSVVLRLQLQTTD
155 >AgifOROR10
156 MTSHEYKPINAFKINLNIFTAEGIWPAGL
157 KNKNLRYPYAVYRLLSPSIWFGSFFIFQLIQVIIINDMAKLMDSMYLMVITYFAILSKFMCF
158 ILYRKRIEKLNTLDESIFIPRQKKHFDYINEAMRIIRRDITIFLSSGISATIFWTFYPLFDKHQ
159 EEKQLAYVMWCPIDVSTSPIFELVYTYQVIAITYNTMFNTMADTTICGLFRMMSGHLEILA
160 QDYSELFDDNFISPGDIVDKKNNINKGLSNYKNDNEDIDEDKYLIVKKPNVTHEKLSYRVA
161 ACVEYAQAIEKFNVEVNDVFQGGILTQFIASCLICATAFALTMVPVASVQFVSLQYQGCM
162 IIQIFIYCWRGNELTLKFSELSNAIFKCNWQLCNGHFRRSMDIIMSRSQKPMILVVAGLFSLS
163 VDTFIGIISAYSFFMFLKEVQTAAED
164 >AgifOROR11

165 MVEFKEHIKKEDLKFETYITRFLSILCFMKISPSYSEISFIKKLCSTCFVIISLGCSTSGCILQI
166 MSFRNVDRDMPFSFSQRVIELCFMGLGTYKWYHCILKFDALKEIHKLLNNCHQVGYLINNND
167 KEYKSYHQEMLDAKKASEYFMIVWFPFTILGVVQWCLTPLTSDFYINKDIDRNNKNISLLR
168 SYPNGATFPIEIDTLTKYLLMFLFQSLGILFSAIGISGCDVILISLIMYICAHRLRYLNNCLIDEN
169 NIQLILKSKNPSEKLKEKLKHCVIYHDQILKVHENYLSYSNGAMFAQCIENTIALCLVSLQA
170 STMHYSPIGIDFIVAFTSMIEYSMGISIELFAFCYYGTKLEELGHEVSDSFFFSNWDKCLKIDK
171 KCQDIQDKIQNIKLGIMRAQKPIIITGGPFYILNLETFTKTLAYMSISNAIVLRQMADG
172 >AgifOROR12
173 MKNKSQSIPASARKNIRYSTELSRWVLTILGIWSNKNKNINIINQILSIVLIFMCYFIICFSLVP
174 CGLYTFISEKDIHLKMKAIGPLSFCVMALSKYFLLVTRKKDIYNCFKHIYHDWRQVQLIND
175 ENIMLENAGTGRFITHCAAFMYGGGFFYNTIMPFVAVGSFVTADNKTIPITYPVYDPLFSA
176 QETPNYQIVFTLQWVSGFIMYSITIGACNLA AVFAFHACGQLKIVISRLDNFVDRNHNYDD
177 VLKNKMGVIIELHLRTIRFILRVEDILNELNLIEFLGCTFNICMLVYYFMSEFEKAETISTITY
178 CVLLVSFTFNIFICYIGEMLTQQGKKLGLAAYNNMNWYELTTKNSRGLILIMAMSNCPCS
179 LSAGKMVNLSYASFASVIKTAMTYLNIIRTTVL
180 >AgifOROR13
181 MFKIVNNAINDWQSVLNHESKNIMKKFAKKARKVFFYQMGFSFIINMMILDSPVSHDN
182 LNLTADSQLLNSFPMKTTYFYGYIELSWYKYTALYFLQIIQLIFCVIGNVGNDCYFFGMAM
183 HLSGQFVTLQLQTKDFETEINKNDNCTNYIENFVEKHQHLIDIGNCLKDSFNSILIVELVNN
184 ACSILMMGIQMILNIQSGDNVMVADAIVILVIMQLFLYCHAGEELKHYFESLRFALCECS
185 WYNMPNYNVKNILFIMMRTSKTFNLTAGSIYHINMDTLTKILKAMGSYFSVLQALFIK
186 >AgifOROR14
187 MVAFTLLMTNSVHAYKICVVIKNQKRIQLLFDTISSELTKNFDKYERIFTWYAWSGIKHH
188 IAYQSFGTMAVFCWGFVPISNAITGNERQLPMDGWYPYDTKLSPAFELTCGHQAVAVIIAC
189 CHNIGMDTLINGFINVACCQLEIHKQNILSIDDGDKNVHQEINQSVQHSVVVMKFIDEVQSI
190 FGTVMYQLIANCLIICLTAFHVVQMTVYIPAEIFGMMMYMCCMTYQIFFCWNGNELTIQ
191 SETLAFTAITSNWWKFDKKYKRSLGILITRSHKPMIFKAGPLINLSLQTFMKVLRMSYSFFT
192 LLQSSTNPH
193 >AgifOROR15
194 MRCMARTEFISSIHCSFFIVGWDGNNYDTRTWVYGSFMEDFLPCIPTQLLITAVAAKYVVF
195 AIYKKTQDQIDKMRVDFEFGNTPARKILKEYADKGRTRTIFYGCFLFMILTTFFVPAFLP
196 VVLDKFRPLNETRIRLKLDDTDYGVDPDEYFVLITIHGYIASTFLVLMVSVDSFIMIMVQ
197 HCCSLFVIVGFTLKKLDQGNKKHTEKFENDVLINALQVHQQAIEFADFIEASLKNMYGIVII
198 ENMLAISITGLETIKQMDQTDQAMRFAAFAGQMVLHFFNSLPGQELVDHSTGLFDLVYD
199 CQWESLSIKSKKKILFILMRSAPKSLTAGGFYELNLQHCGAVLKTSMSYLTVLSSMRQ
200 >AgifOROR16
201 MAFTQILVRIAMLKKYNRKLGDINKAIKDYYDYKLYKTTEEKKVFIDYIKRAKLFCKLLCIF
202 VAMTASSYYVKPITSPPPQPPPSSTINDDDFIINNLTKSFILPYRFYLFHQVNDFKMYVITYV
203 SQFPFVFSVSGFGQTAADCLMVSLVFHICGKLAVLSIKISTINPNINFCKKQLNEIIEHNRLK
204 MGQDIEEAFSETLLIHLVGATSLVCILGYQLLTNYAKGQNADLATFLIFLVLILYAHCVV
205 GESLITESNKVCEAYYACQWYNMPHDTSRGIILCMIRSQKPLGLSAGKFKTLCLSTLTVL
206 KTAMGYLSVLRSFLAV
207 >AgifOROR17
208 MNISEDNDNKKVEEIQEEFEHLNDLLDWNRKFLIFGGIWPLENTKFRAAIFTAYMTFHLFT

209 EYSGVVEVVGNF EAMVLGIIESSMQSMVLSKLFVFRH SKNLRVLISAMKEDFQENNYNDL
 210 NEKKIYLYKYNYY SKLYFKLSVPYVLTIAALYYARPLTSLILGTFGVNDSLILPFQTKLFFPI
 211 DNTQTYFYVYI WYCPMVYLLACHNAFICILITILHICGQLAVVEYRIKNLYDHEKDHNQ
 212 MIFKTLVQRHQRSIWM AKTFDTSFNVVLLIDLIGSTVLIGLLSYSIVTESETLET SFVYIYIC
 213 AIIATLFLFLGYCYVGECLVENSTRVHEVY YECEWHKMSLKFQKSLSFCLMETEKPLTMTA
 214 GKIFVFSLSGYAYVIKSAMGYVSM LRNVSM
 215 >AgifOROR18
 216 MYEAKGNKEIKQATVKWNEDTIYALGLYKRVTTLVGIWPTNNRILTGIIQIGVYITFHLSSVF
 217 IFFQKFLEYGNC GTTMEIVDTLSVCMASVQICIKSFIAWFKNHEFRHVVD SAVMDWSCVE
 218 EEQSHSVM LVYARKGRVLLMCQMAVG FSTAFPLMLDRFPKIVEVIDEVKNESIFVRNIPLL
 219 PRCWISLT MSEYSYLAYWTLVVIFIW TLSIATVCCNVFVYGFLYVYTQFEILSTSVNIINGN
 220 ENISEQRRLIKMFAKRHNHLLNIANDLENGSTFIILSEVTVIIFVGC IAGVMMLLIGLRDHDSQ
 221 TIAMVIRLTLVMMQLFIYNFMGECLSNQTEKLQTAIYNCPWYELSSRTAKDMKLMIRSN
 222 NPFRLTAGKLS DMNLISFKSVVKSMFSFFSVLRLMLQN
 223 >AgifOROR19
 224 MDLQNK NKETSIKW NKDAIYALGLYRRLSTILGIWPS ENRISSNIRIGTLIILQLTTVSIFIERI
 225 VSGNCGTIQEIVDTIVISISSTQISLKCLLICCQHRKFKRISSALEDWSSIIDQQSRKIMLKFG
 226 HVGRVLFTCQVITGVATSSSLIINELPKLVLPDENNSSITLLRTIPLAPSCWVSTTMSSYLYY
 227 TYWTSVALYIFYVGMATVSCNLFVYGLGLHV FVQFELLYLSLDTVFENHSHFQQKKIFKK
 228 FVQRHDEILEIANDLEDASTGVILSEVAAIIVGCVSGVM LLLAQHKGDSETVSAMAVRLV
 229 LVFIQLYIYSYMG EKLTQADKIQDAIYNCPWYTFSP LVARDLKFIMVRSNYPFYITAGKFL
 230 PMNLMSFKAVVKSMFSFFSVLRLMLQN
 231 >AgifOROR20
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745 IYISLEVENIYDRLKFVSLMSFCMLSITKYHLINIHKDDVRECVKRIEWDWKNISYSEDREI
746 MLMNANFGKRLIIVTTTVTYSGFVFFYIAPVPMKIGKIPAPDANISFIPTMFPPPKYIADVRS
747 PINEIVFLAQFICGFLHGHITSSVCSLAAILTVHACGQIQVMMVWLKHLIDGRLDMCNSIDQ
748 RIATIVNQHVRLKFLSLIEKILQQVSYMEFLECTMNVCLLGYYCAIMEWESNHLTEVITYLI
749 LLITIFNIFICYIGELLANQSRNIGEVTYMIIEWYQLFGKKKLCCVLIAMSNSSSTKLTAGNL
750 IELSMSTFSDVIKTSFAFLNVLRLTLT
751 >AmelOR24
752 MSYTKTDHDYKRVNLSIQWSRWILKPIGLWPNSSTISTTGKYLRLINVICYSLISFLSIPC
753 SLYVILEVEDIYNRIKLFGPLSFCVMAFLKYHLLILHKDNISECIKRIEWDWKNITYSKDREI
754 MITNANFGRRLVVICTFFMYSGFAFYIYAVPISVGKIPAEDDNITFIPLVFPFSRFIIDTRYST
755 NEIVFCIQLVAGVLLHTITTAACSLAAIFAVHACGQMQLVSSWLKHLINGRSDMYNNVDSR
756 IASIVNQHVRLKFLALTEKALQQVSFVEFLGCMLDICLLGYYVIMEWSSSHLTSAITFFILL
757 ISLTFNIFICYIGELVAEQCKKVGEISYMVDWYRLEGNNKKLCFVLIAMSNSSIKLTAGNM
758 VELCLTTFSDIVKTAVAFLNVLRLTLT
759 >AmelOR25
760 MEKQQYVIAQDDGKKANLSIQWNRWLLTPIGAWPNLRKSRIGKCYSLLSIHCYGLIGFML
761 VSCSMFLMVEIKKVYNRIKMIGPLSFFLMTFMKYLLLLHENDIREGIECIEWDWKNMKH
762 QEDRNIMIEYANYGRKLVLICTFFMYSAFAFYLVLPFSVGKIEDGNLTFIQLPFPSSSLIADI
763 RYSPYNEIVLSVQILTGVVMHAITSAAACSAIAVFAVHACGQMQLVMNWLDHLVDGRSDM
764 SKAIDDRIANIVIQHDRILKFLALTEKALQQISFVEFLGCTANMCLLGYYLIVWNPKEIILS
765 VTYVALIISITFNIFICYIGDGVAEQCQKVGEIMAYMIEWYRLTGKKKLCCILIAMSNSSVK
766 FTAGNMVELSIYTFSDVVKTSVAFLNMFRALT
767 >AmelOR26
768 MMNQLNEQSVLMPVSYARDYEYSIQVNRWLLKPIGAWPNLTKATRTEKLLVKLLNFICH
769 LIIFTVMPCIMYIFYEDES LKTRMKAIGPTSHWLMGELNYCCLLMRAKEIVYCIEHIKYDW
770 KTVRRARDRELMIKNAKLGRFIACIAALCMHSGIMS YTVITGFKKITFQIGNDSYSMYRLP
771 CPFYTNLLDVRFS PMNEIVFALQLLSGFISTSVTVGACGLAAVLAMHACGQFNVVMIRSD
772 KLVKDNNEKKQDEQTLHKKLGFIVEHHLR TSLVWYMEKVMNMICLVELVGCTMNMCI
773 LKYYFLTEKSKTILGIYAIVYAS MVFNIFICYIAEIVTEQGKKVGEKFYMT EWYQLPHKTA
774 LGLVLIISRSSMVIKITAGKLIQISIATFAAVFKASFAYLNMIRTAM
775 >AmelOR27
776 MMNQTAITEEIKTNSDYS LQLNRWFLKPIGAWPLFSTTTKFEKTVSLILNIICYAIVILCATPS
777 LMQIILAEESFY LKLKTLGPVSHWFVSTVNYTALLMKSKDIRYCFEHMEADWQTIKRMED
778 QQTMLKNAKFGRYVAASCAIFMQGGILCFCFVTILT TETIQVGNETRVLHVLPCAVYKKLV
779 NVEENSINIFMLCFQFVAAA IANSSTVGIFSLAAVLA AHAYGQLSVVMVWITEFVNQSRNQ
780 KKTDDFKEIGIIVERHLRVLNFITYLENIMNRIYFLELFRCTMIICIVGYYILTEWAEKNVQN

781 LTTYFMMLLSICFNIFIICYIGEILTEQCMKIGEVVYMTDWYYLPDKTILNLILILRSTVVVQ
782 ITAGKLFNMSIYTFGDVLKTAFAAYLNLLRQMT
783 >AmelOR28P
784 MSNRSVAIKTDPDTNSDYCLQLNRWFLKPIGAWPSFPSTTKHERIISFLLNVSCYSSLLFTLI
785 PCLLHMLLEDESFYLMKMKVLGSLAHWFVGTMYTTLLLRGKEIRLCVEHIRTWQTVTR
786 EEDQQVMLKNAKFGRYVAAVSAAILQSGVNCXCCMTISRTELIQIGNETRIVHVLPCAVYR
787 KLIDVTHSPNSELIIASQFLSGFIVNSSTAGIFSLAAILGAHACGQLSVVMTWITEFVNKSKK
788 REKMIFREIGLIVEHHLRNLNFISCIEETINRIIFLEVFRCLHICCLGYYILMEWSDYDKRSM
789 IIFYFMLFVSVCFNIFIICYIGEILAEESMKVGEVVYMTDWYYLPDKTILDLTLIIARSSVVVQI
790 TAGKLIHMSIQTFSTDVIKTGFAYLNLLRQVT
791 >AmelOR29
792 MKNQQVVITQDDYKRKTNLISIQWNRWLLTPIGAWPNLRKSRIGKCYSLLSIICYSLIGFML
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794 QEDRNIMITYANYGRKLAFICFFFMLCAFIFYFLIQPFGGGKIVDGNLTFIQLPFPISILIADV
795 RDSPTYNEIMLSIQILTGIVMNAIRSAICSVAAVFAIHACGQMQLMNWLNHLVEGRSDMSK
796 KIDDRIANIVIQHDRILKFLALTERALQQISFVEFLGCTANMCLLGYYLIVEWNPKEIVSFT
797 YIAIIASITFNIFICYIGELVAEQTEKVGEVAYMIEWYRIRGKKKLCCVLIAMSNSSIKFTAG
798 NMVELSIYTFSDVVKTSVAFLNMLRALT
799 >AmelOR30
800 MEKNRSIIGHDDYERNVNLSIRWNRFLKSLGTWPNLRESRIGKCYSVLIGIVCYGLISFML
801 TSSNMFLVVEVKDTYNRIKMIGPLSFFAMTLIKYYFLTFHEENIRKGIEHIEWDWKNVKHE
802 EDKRIMIEYANYGKKLALISIFFVYSAFVFYYFVVPISVGKIRDENLTFIPLPFPSSKLIADMR
803 QSPANEILFSVQVLSGVIIHAITATAVSIAAVFAVHACGQMQLMNWLECLVDGRSDMNKI
804 VDKRIAKIVVQHDRILKFLALTERALQQISFVEFLGCTMNMCLLGYYLIVEWNPKEISLSLT
805 YISLLISFTFNIFICYIGDLVAEQCQKVGEMTYMIEWYRLTGKKKLCCVLIAMSNSSIKFT
806 AGNMVELSIYTFSDVVKTSVAFLNMLRALT
807 >AmelOR31
808 MTSKSVISEESFDSLCDYSLQLNRWLLKPIGAWPSSSSSKLERIVSFFLIVLCYGFILFTVIP
809 SLFHIVLEDENLHMKLKVFGPLSHWFIGGINYTLLLNKEIQYCVEHMQTDWKIVNRAK
810 DQQVMMKYAKIGRYIAALCAIFMQTGVLTYCVVTAFASTRIIEIGNETRIVHMLPCPVYKELI
811 SIDTSPTNEIVLISQFVSGFIVNSIAVGAISIGAVFTAACGQLTIKRWIREYINRSKDNNKNV
812 VINEIGEIVEYHLRILNFIEGIEDVLNRFCEMELFKSTLDISMLGYYILTEWADHDIRNLTTYF
813 MILTSMFSNIFIICYIGDILMEQCRKVGEVLYMTNWYYLPYKDILDILIIIRSNAVIKITAGK
814 LTNMSIYTFGNVMKTTFTYFNLLRHVT
815 >AmelOR32
816 MIDKFASIQQTNNNLSNYSIQLNRWFLKPIGAWPPSPSTTKLEKIISIVLIICCYSSICFTVIP
817 LLHVMLEDESFRDKLVGLPLSHWFIGAINYTLLLRKSKEIRYCIEHMQRDWRIVTRTEDQ
818 QIMMKHAKIGRYIAVFSAAFQGGVLSNCAVTAFASTQTIEIGNVTKTIHMIPCTAYKKLIAV
819 DTSPTNEIVIASQFLSGFIVNSSAVGAVSIAAVFAAHACGQLSLLMVWIREFVDHSSKIHDK
820 NIGLNKIGKIVRHHLRNLTSFVTGIENVMSGICFMEFLKCTVNICMLGYYILTAWSVHDIQN
821 MVVFLVILLSMIFNIFIICYIGDILTEQCKMIGEAVYMTNWYYLPYKDILNLVQIILRSSMVIK
822 ITAGKLVHMSIYTFGNVMKTAFAAYLNLLRQMT
823 >AmelOR33
824 MMTSKSVPIEQDNHSLSNYSVQLNRWFLKSGITWPLSPSTTKLEKTISFLLIICCYCFICFTV

825 IPCLLHIILGDDSFREKLKVLGPLSHWFIGGINYTLLLRKKEIRYCIKHVQRDWRIVTRME
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 827 IATDTSPTNEIVIASQFVSGFIVNSSAVGAVSIAAVFAAHACGQINLLMAWIRQLVNHNSVN
 828 NKNVGLDKISNIVRHHLRILSFITGIENVMSGICFMELFKCTMNICMLGYYVLTAWIDNDM
 829 RNLIVCSVILFSMIFNIFIICYIGDILTEQCKMIGEAVYMTNWYYLPGKDILDLIQIILRSSMVI
 830 KITAGKLVHMSIYTFGNVMKTAFTYLNLLRQLT
 831 >AmelOR34
 832 MMIDKFVPIEQDNHSLSNHSVQLNRWLLKSIGAWPSFSSTTKLEKIISFVLIICCYCFICFTVI
 833 PCLLHVILEDDSFHEKLKVLGPLSHWLVGGINYTLLLRNKEIRYCIEHMQRDWEIVTKTE
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 835 IASDTSPTNEIVIASQFVSGFIVNSSAVGAVSIAAVFTAACGQVSLMAWIRQFVDHSNIQD
 836 KNIVLNDIGEIRHHLKILSFITGIENVMSGICFMELFKCTVNICMLGYYILTAWTGHDIQSLI
 837 VFSVILFSMIFNIFIICYIGDVLTEQCKMIGEAVYMTNWYYLPGKDILNLIQIILRSSMVIKIT
 838 AGKLVHMSIYTFGNVMKTAFTYLNLLRQMT
 839 >AmelOR35
 840 MLVLKDSSSVSYSKDWIYSVQINRWLLKAIGIWPLSLCVTTTEKIHSVILTSLISIFLIGFLLVP
 841 CTLCTLLDKTGDLDTKIKMIGPFSFCIMAAIKYYVLLSRGSHIGKCIEDIRVDWFRVSSHNC
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 843 LDPRTSPSFEIVQLMQCLAGFVIYSVTVGSCSLAAVFMHACGQFQILVTKLRRLIDGLKE
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 845 ETIGILTYCILLISFIFNIFILCYIGEILSEEKSIGLSAYMIDWHRLPGKKALSILISAASNSST
 846 KLTAGKLVELSLSSFCSVLKSSLAYLSLLRTLTT
 847 >AmelOR36
 848 MTDDISAIQKKFGSLNEYSIQVNRWLSKTIGVWPLPSSTSKFEKITTRILILFCWTIAVLDTT
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 851 PGHDIVLGFQYVAAYITSATVISAFSFATVFACHASGQLTIMIIWIEEFINRSQKENKNRIDEIS
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 854 ITFGNIIKTVFGYLNILRQVTML
 855 >AmelOR37
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 862 MSVITFGNIIKTVFGYLNILRQTML
 863 >AmelOR38
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869 LNTFLICYIGEVLTERCKEIGDMVYMTNWYRLPKKDILNLIMIITRSSVEYKMTAGKIIDMS
 870 VITFGNIIKTVFGYLNILRQTTML
 871 >AmelOR39
 872 MMADDIATVQKEFDNLNEYSIQFNKWFAGTIGVWPLPSSTSKLEKIMTRILILFCWITTLFV
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 877 VMNLIFSTFLICYIGEILTERCKEIGNMVYMTNWYQLHDKDILNLIMIIVRSSVEYKMTAGK
 878 IMDMSVITFGNIIKTVFGYLNILRQTTML
 879 >AmelOR40
 880 MADDITAIQKKFGSLNEYSIQLNRWLSKTIGVWPLPSSTTKFEKIMTKILIFLCWIIALFVITS
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 935 >AmelOR47
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 951 >AmelOR49
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 959 >AmelOR50
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 967 >AmelOR51
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 983 >AmelOR53
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 989 GDTITLLTFFTLISFTFNIFICYIGEILTEQCSQIGTVSYEIDWyKLSPKEAYDLILLISISQHP
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 991 >AmelOR54
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 994 WMMVQDPNHRtIMLKyatISRRLITICaVFLYSGGMSYHTVMQFLSKGKNNYTIRPLPYIG
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 996 RKKYESCnLFALIVHDHVEILRFsNNIEEALKEICfTEIIECTLNMCMLEYYCLIEWSAGDTI
 997 TFLTFFTLTSTFTFNIFICYIGEILTEQCSQIGTVSYEIDWyKLSPKEAYDLILLISISQYPPKLT
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 1000 MHFSVRNLINKPRNPNYEKDITYVMKHnkWVLISIGIWPTVLKNIGKFLPKIVIGINNLmC

1001 FFILIQSALHIILEQKDTLLRLKFFGLIFFSFMSLMKYWALTIRKPEIEHCIQQVQSDWKQVK
1002 MENDRELMLKYGIIGRNLTIIYSILFMYISGIMYISFMQYAMRLQINNDNQTNKVLIFPAYSN
1003 SIQKSPIYEITYGIQCICGYVLDSVTSGACGLAALFVTHACGQIDVVISRLDDLAVAGQFYKK
1004 NSNPNIQVIKIIKHHIKILKFSAVVEKVLQEVFFLEFISSTFVICLLEYCYITDWEQNNIISLTS
1005 YALLLISLTFNMFLLCYIGDLLIHKSGNIGVAVFMIDWYHLPKTIQNLILIMAMSNPAKLS
1006 VGRIVDLSLSTFGNVLKTTFVYLNFLQTAVMQ
1007 >AmelOR56
1008 MYLSIQNPINEPRNPNYEKDIAAYVTKYNKWVLTCIGIWPIILKNINKILPKIVIGINNLLCSFI
1009 LIQSALHIIYEEKDVLLRLKILGLIFFSFISLMKYWALTIIHKPEIKYCIEQVQSDWKQVEMEN
1010 DRELMLKYGILGRNLTIIYSILFMYMGSTYMSITQYAMGLQFNEHNQTIRVLIYPTYGYNIQ
1011 KSPIYEIIYGVQFMCGYVVDITITSGACGLAALFVTHACGQIDIITSRLDDIVAGQFYSKNLN
1012 PDIRLMGIIKHHIRILKFSAVVETILQEVFFLEFIGSTFVICLLEYCYIADWEQKNIIISLTSYVL
1013 LLISLTFNMFLLCYIGDLLIQKSSNIGVAVFMIDWFHLPKTIQNLILIMAMSNTPAKLTVGRI
1014 VDSLSTFGNVLKTTFVYLNFLQTAVMQ
1015 >AmelOR57
1016 MHVSVRDPINELRNPNYKDIAYVTKH NKWVLASIGIWPTVLKNIGKILPKIVIGFNNLLC
1017 FFTLTQSALHIILEQKDTLLRLKFLGLIFFSFMSMMKYWALMIRKPEIEHCIEQVQLDWKQ
1018 VEIENDRELMLKYGIIGRNLTIIYSILFMYLSGIIYVSIMQYAMGSQINEHNQTIKMLIYPAYG
1019 GYNIQKSPTYEIIYGVQCICEYVFDTIASGACGLAALFVTHACGQIDVIMSRLDDIVAGQYK
1020 KNSNANIRLMEIHKHTRILKFSAVVETVLQEVFFLEFVSSTFVICLLEYCYITDWEQKNIIISL
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1022 KLSVGRILDLSLSTFGNVLKTTFVYLNFLQTAVM
1023 >AmelOR58
1024 MHLFVRDQTNQPRNLNYEKDIVYVTKH NKWILNSIGIWPTVLKGIDEYLPKIAIALSNLVL
1025 SFTVIQCVLHILLEQKDPILRLKILGLTFFSFISLMKYWVLTMRKPKIKLCIEQIQHDWKQVE
1026 FERDRKLMLKYGIIGRNLSMYSIVFMYSGGIIYHTVMHYKLGSYVDEYNRTIKLLIYPTYS
1027 RLYDVQKSPVYELVYILQCICGYMFDVTVGACGLAALFATHICGQIDIVMAKLEDLVDG
1028 KFSKENSNPNIIRLIEHIIHHIKILRFSAMVETVLQEVCFLEFIGSTFVICLLEYCYITDWQQNN
1029 TIGLTTYSLLLISLVFNIFLLCYIGNLLIEKSSNIGIVCCMIDWYQLPIKTIQGLILMIAMSNP
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1031 >AmelOR59
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1039 >AmelOR60
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 1047 >AmelOR61
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 1055 >AmelOR62
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 1061 MVTLLIQLYLYAYAGDALESRTIEIAQA AFHSFWYQSRGRTARDLILIIICRGNSSYHVTAGK
 1062 FVFMNIFTFKEILKSSASYLSVLKVMMDT
 1063 >AmelOR63
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 1068 IKRHIYLLKLGDMLNKTISSILIVQLSSSCMLICTTGFEFILALSIGNIVMIVKTFAVICVLLIQ
 1069 LFAYS YVGEYLKTQTEGLGNSIYFCTWYDMPKNVSHNITFIIMRAQHPVLLTAGKFFVINM
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 1071 >AmelOR64
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 1078 TYMSILKTSMSYLSVLRVMVNS
 1079 >AmelOR65
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 1083 VVFIVEYMM LLLFTSIGNLGSDSVFFGIVFHL CGQVEVLKREYSKLFNKNEKITEHFILLIKR
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 1085 YVGEYLKTQTESVGN SVYFCTWYDMPKNVSKDIIFIIMKAQRPVLLRAGKIFVVNMETIYI
 1086 SILKTSMSYLSVLRVMVNS
 1087 >AmelOR66
 1088 MKTTLNKEFAYAMTPLKFLSWPVGTWPFQVYDIFSLTRTIFSISLLLLMIAIVQVELYLDRT

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 1091 VVFIIEYIMLLLTSTGNLGSDSLFFGIAFHLCGQVEILRLKYNKLSNENERTMKHISLLTRRH
 1092 IYLLKLSDMLNETISSILVIQLFSSCVLICTTGFEFILALSIGNIVMMIRICIAMCVLLIQLFAYS
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 1094 SILKTSMSYLSVLRVMVN
 1095 >AmelOR67
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 1103 >AmelOR68
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 1111 >AmelOR69
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 1118 >AmelOR70
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 1132 >AmelOR72

1133 MHLLRWTFKLFVATGYFLSPKIKSPKRFLYNVYTVVVTLFLLSFLLTLMQIVFNVRTADE
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1139 >AmelOR73
1140 MHKLSLSFALLTYGGYWRPTKW PASSYKYHLYNIYSAFMIFLLYFITFCTCVDSLISKNLKT
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1146 >AmelOR74C
1147 MQGEGYTDVSLKVSQFLLKSAGIWWIGNDAEERQRKFAVFYTLAALIYGIYVNAVDIYHN
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1154 >AmelOR75
1155 MRRRGSKDVSIIWTSFLMKIVGLWLATDRNEQRQRDFALIYTVGTLFISICIAFRDIYYSWG
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1160 LIFTYSCDNLIRQSVNVGNVFGSPWVNLPM SKAGILVRKNLIIVIMRSQKICCLTAGKFFP
1161 VSLETSTAVLSTAI SYFTLLKQSSLENM
1162 >AmelOR76
1163 MKSKEVRDLSITVTAFYMKIAGFWTSTNYVEERRRNV TMSYTLFAILFAATTEARDLYFS
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1170 >AmelOR77C
1171 MNGLLNGGDASMTMTAAFMKLVGLWTAKNRREQRARKFALIYTVAA MLFALWIEFTDF
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1176 >AmelOR78

1177 MQSENQLDVSITLSTFFLRNIGLWMSDDPGEQRRMRILLVYTVWILLGMIINGRDLYFTFL
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1180 AMCVYYIGISNFCFDTVFCIMAVHLAGQFRILQYRFTKLCDTDNQICKKNLILEEQMQKFH
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1184 >AmelOR79
1185 MQAEYRLDISINLSTFLLKNVGWVMSHDPGEQRRMRMLLVCTVWMLLLGIVINTRDLYF
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1192 >AmelOR80
1193 MQTESQLDISINLSTFFLKNVGWMSDNPNEQRRIKMLFLYTIWNLLFGTVVNSRDLYFTL
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1200 >AmelOR81
1201 MQTESQVDISMNLSTFFLKNVGWMSDNPSEQRWRNMLLGYTTWILLSGIIINGRDLYFTL
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1208 >AmelOR82
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1216 >AmelOR83F
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 1224 >AmelOR84
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 1231 FPPVSLSTAVLSTAMSYFTLLR
 1232 >AmelOR85
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 1234 WGNFGDSILIICNLVTVILVLFKISISLMYRNKLHKIIQYAKTNFWNLKYDLHDEQIIINTCK
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 1236 SLYHVGVCYLYFDNFMCIINLHIAQGFRILQHRFSNVCNEMCEKCCYQLSRKSPYLSICKY
 1237 AKLKIYIRQHQTLEIYCRKLEMVSNIIFGQVLLFSLICLDGYLILMEDTSNMSRLIFTFHLI
 1238 SCMCQLLMFTYSCDCLIRDSTNIANATYNSLWSFMPMDKYGKMLRKDLILVIMRSKSPCY
 1239 LTALGFFPVSLETYISILSTAISYFTLLRNRAEQTIMDA
 1240 >AmelOR86
 1241 MHATPYSDVSIVVSQFLKLTGVWMTVNDGEKRRRRRIAMAYTFVIQVYGLYLNIGDIYHS
 1242 WDDLSHCIFLTCNTLCIVLTMFKFSILFIRRTFKNLILFARKNFWHLDYDRHETILFTKCRK
 1243 FCTLWTLTVFSFTQASLTFYIITPICANIGKNKSERILPFKMWVDFPLSETPYYEIMFVIQLLT
 1244 VQQIGIAYTCNDNFLCVLNMHVVCQFRILQHRLTKLWSIIDERADKFNYASKCYEALKECI
 1245 RQHQSLIEFCDKLEHVYTLPIFGHVVVFSLLMCFDYEIFLANVPVSMRLIFFFHMVGSFIH
 1246 IIFTYICGGLIEESSNIGLATYSGWWTVLPMDEAGRMLREDVKVMIMKSMRPCCHLSAGG
 1247 FFPVSLSTALMSSTLSYFTLMRESSKDK
 1248 >AmelOR87
 1249 MGAKAVAKVVAHSLVARHSNKDFALSMTAFLMKIVGLWLAKNEQEQRKRRLTLMYTVI
 1250 AILFGVWVQFRDFYYSWPNFGNCAYTACNILCLIMVLLKLFVLVHRKEFIDLLVYTHENF
 1251 WHTNYTNNELLLLQNCKRISMLCITLINVCAQGTIVSYVLTPIVENIGRNHSDRVLPFNMW
 1252 VDLPTLFLSPYYEILFVLQVLSLYHVGVCYICFDNLLCLMNLHAATQFRILQHRLSDLGSG
 1253 WDTRRSFNKIDRETSWSSCMENCYATFKLCVKQHQRITYCHRLNDIFTIIVLGHILVFSLL
 1254 MCLVGFQVLMANSPTRRLIFVFHITGSLCQLLLFTYSCDSLQESTNVGSVAVYSGPWICLP
 1255 MNRIGRTLRRDLRMVIIRSARKPCCLTASRFFPVSLCTTVLSTAMSYFTLMRQSFAN
 1256 >AmelOR88
 1257 MNGRNVNRNLSITVTA FYMKVAGFWVAN NYAEKRRRN VAMFVTIFFAFMGISIEGRDLYFA
 1258 WGD F EDSIFAGCNVITIVL VLLKIFVLYINNEELLNVVNYAKTNFWRESNYEPHEKKIIDDY
 1259 RRLCSFLVCSFTFFAQGT VVC FVITPVFVNNGKNESDRIHPFNMWFDRSLSLSPYYEIIYTIQ
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 1262 LMGCMCQLLMFTYSCDCLMHDSMSVANAA YNSLWPCLPMDKYGKSLRKDLTFVIMRSR
 1263 SPCLTACGFFPVSLETYTGILSVAVSWFTSLKKYEKKLLQYACIANQSLLKEESKIIFYHQ
 1264 NI

1265 >AmelOR89
 1266 MQREVELDVSVNLAAFFLKNVGLWASNDPGHERRRKVILVYTMWCVTLSSVVIIRDVYF
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 1268 LENCKRTCAFFVSLVTAIGICAILSYLATPLIVQTASNNSERMLPFNMWLKLPLSESPYYEL
 1269 MFVYQIMTFYFIGISYFCFDNIFCIMTVHLAGQFQILRHRFDRLCNAEDRIAEGAHAREF
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 1272 LTANGFFPVSLETYTTILSTAVSYFTLLRNNVEKANE
 1273 >AmelOR90
 1274 MEKELDISVNLSSFFLRSIGLWIGDGSTNERRRKGMLAYTIWCTFFSTIISRDLTYFTWIYNG
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 1276 FFVSTVTFIGICAILSYLTPFTARIGNNESERILPFNMWVNLPLSQTPYYELLFLIQIITLYYI
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 1280 FVPVSLETYTTILSTAVSYFTLLRNNMENDKDD
 1281 >AmelOR91
 1282 MSFLES DVSVSLTSIFMKLVGLWMAADQYEQRLRNISVTYNLVAILFALYLQTTDIYYSWG
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 1285 YQIGVSYFCFDNFLCIMNLHLAQQFKVLQYRISTIADRVIEKEEKKELIIDSLSYFSNKCYYT
 1286 FKKYIRQHQALIA YCRKLEVFNWIVLEQVLMFSLICLDGYQILMANGDIKTRLTFSFHIL
 1287 ACLCQLLMFSYSCDCIRESVSVATAAYGGPWTLTPMTISGRMMRKDLIVIMRASIPCCLS
 1288 GKGYFIVSLETYTSVLSTAASYFTLLRNNIESDN
 1289 >AmelOR92P
 1290 MNFLENDVAVSLTSIFMKFVGIWMXQYQQRMRNIMVAYNVIAIFFALWIQTMDMYHSWG
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 1293 IAVSYFCFDNFLCIMNFHVAGQFKVLQHRISTIADLTIKTEEKKELIIDSLSHF SNKCYYTTFK
 1294 KYIRQHQTLIAYCRKIEVFNWIVLEQVLMFSLICLDGYQILMADEDIKTRSIFS FHILSCL
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 1296 GYFIVSLETYTSVLSTAASYFTLLRNNIESEIMKHD
 1297 >AmelOR93P
 1298 MNFLES DVSXIFMKLVGIWMAGNGZEXITLFTAIFSGYNLZMYFILGDFSACLF FISILSSI
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 1301 CIMNLHVAGQFQVLQYRISNIIXRFNEKKEKLIVDSXATKCYAIFKKXQHQUALIYLIYCRK
 1302 LEEVFNLIVLEQVLMFSLICLDGYQILMADGDVKTRLIFS FHILGFLCQLLMFSYSCDCIIR
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 1304 TEATS
 1305 >AmelOR94
 1306 MTLKYRGDVFSFLATFFLRVVGFWLASSRLEEWFGNATVMYSIITIIFSMWVQMRGLYFS
 1307 WGDFGVCTFIVCNSLGLVMDLLKILVVFVHKKKFLGLIAYMQKNFWHLDYDQRENSIAD
 1308 ARQLCVYFVCFVSFFSQSTVFSYMFMPMISNIGKNESDRILIFNMWLDLPLSMSPYFEIIV

1309 IQALCLYQVGICYLCVDNMFCIMCLHLASQFRILQYRLANVSNVEDEEGVEENMNSSNRC
1310 YAILKNCIRYHQALIQFSITLEEIFTHITLGQVLIFSTLICFVGQVLLVNMTLNWRISFLCFLIT
1311 NMCQLWMFTYSCDCMTRESVNVASAVYCIPWTRIPMDKFGKMIRKDLQFIVVRSRRACC
1312 LTGCGFFDISLETYTKIMSTAMSYFTILKQRIVEVENT
1313 >AmelOR95
1314 MKNDDFSINLSSIFIKLMGIWMANDQSEKYVRNVITILYSIIALLFGLWLQITDMYYSWGDF
1315 SECIFSMCNMLSIAAPLLKLITLVVHREDDFFYLILYLQRKFLHGDYNDYERNIVLNCKRKCT
1316 FFTCSLTFTTLATVVSYVINPLVANIGRNESDRVLPFNIWIDLPLTITPYEITFVLEVISLYHI
1317 GVSYFCFDNFLCIMNLHVAGQFQVLQYRISNIIDSIDKEKKEKLIMDSCYFASKYYAIFKKC
1318 IRQHQUALIAYCRKLEEVFNLIVLEQVLMFSLICLDGYLVLMADTSTTTTRLIFGLHITVCLC
1319 QLLMFTYSCDCIIRELSVATAANRGWPMPMTTSGRMMKKDLILVIMRSGTPCCLTGRG
1320 FFVVSLETYTNVLSTAASYFTLLKQHSEAHS
1321 >AmelOR96
1322 MNLKYRKDLAFTVASFYLRVVGFWLTTSRLEEWFRIGVVGYTILAITSAWVQIRGLYFN
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1324 DTKRITAYFVCILTFSSLSSIFTYMFRLTNIGRNETDRILIFNMYLDLPLSISPYEIAITYIQI
1325 AALNQAGSCYFCFDNIFCILCLNVACQFRILQYRIANVPILKMKGNPDANKNSSDECYKAF
1326 KNYVQQHQALLDFCETLEEFTIIVIGQILMFSILFCFLGYQVILADLTPSYRISFISYLFAGM
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1328 CGFFPISLETYTKIMSTTMSYFTLLKQRTVDT
1329 >AmelOR97N
1330 KNGKYKSTVFDISYYKTFKKYLKFLGQYPNQSRWNKEFNTNVMICSLISFLIPGLSRVYISI
1331 VEKNLNALMEIPIVFATISCAIKLLNHRINKKNFDKLFDLMSKEWEMKNDRNQTCILDEFT
1332 KQGNKFAEYKYNVLLSALLLFLLLPLFPSFLDIVFPLNETRQQFQIFKMKYFVNEDEYFYPI
1333 YFHSVWSSFVIIMITVTIDSLYMLIIHHASGLFAMCGYQIAKATECNDRHNELEFRQCVM
1334 THNKAYKFFEIMNKSSRNSYFLQISLTIIGISIIAVQIVMYLHKPEEAFRISLFLIAAQFHLFIIT
1335 LTGQVIADQSSKLSNNMYCTTWYRMPPNVQKIFHIIQIKSSKPKCLTAGGILELNLENFGIA
1336 LKTCMSYFTIFLSLQD
1337 >AmelOR98
1338 MDMFQKTGKEYSNIFFDIPYYKVLKKYLQFLGQDPYQECKYRNIIITIMLISMIAIFIPTTFEI
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1340 LEEITIQQSKIAHLYRNTLLSFLILFLLVPMYFPILDMIDALNQTRSRQQLLRVNYMVFNAD
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1342 YKELKNCVHKHKAIFYNILNNSQLSYLLQIGINIMGISTTAFQLAVNLDTRPQEAIRNAV
1343 FCGANQFHLFVLSLPGQILLDHCAELSNTIYCSMWYKLPVKIQKMFNIMLMRSKKSCALT
1344 VYGLYELNMENFGTTFKACISYFTMMLSLK
1345 >AmelOR99
1346 MDIFQKIEQHNEIYDIPYYKMMEKYIRFLGQDPRQKDEFRNIIIFILIISIASIVIPTTLELYI
1347 SLRNKDVDGVIECIPHFIASSISAVKLLNLHFNRQNYNLFHFVTKKWQQLKSTYELNALD
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1350 YEFRTCVIMHNEVIEFYNILNENCQYSYLIQVGLNMLGMSTTAVQTVINLDRPDVAIRSA
1351 VFFGADQFHLFLLSLPGQILLDHCAFDANAIYDSTWYGTSLEIQKMMLYMMQIRSKKLCALT
1352 AGGLYDMNIENFGITFKTCMSYFTMIMSFK

1353 >AmelOR100P
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 1357 VWSSFVCVIVIIIFDWLYILIIHHNSGMFAVCGYQIQKIFAEKVFSNIHIYEQFKNCLIVHSEAI
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 1359 LLNHYSNLKNNIFMSSWYNMPIEVQKMFYVMQIRCKKPCSLTACGLYEMNMENFGTALK
 1360 TCMSYITMILSLK
 1361 >AmelOR101
 1362 MDIFQKTKKQHNEIYDIPYYKMMEKYIRFLGQDPRQKNEFRNIIVFILVISIASILIPTTLELY
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 1366 YEKFRTCVIMHNEVIEFYNNILNENCQYSYLIQVGLNMLGMSTTAVQTVINLDRPDVAIRSA
 1367 VFFGANQFHLFLLSLPGQILLDHCADFANAIYDTTWYGTSLQKMLYMMQIRSKKLCALT
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 1369 >AmelOR102
 1370 MNIFQKTRRQCPDIFDIPYYKMVEKYFQLLGQDPRLKNEFRNFIVTVVVISISGNIVPTSIEL
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 1377 >AmelOR103
 1378 MDIFQKTERQYPEIFDIPYYKMVEKYFQLLGQDPRLKNEFRNFIVTVVVISISGNIVPTSIEL
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 1384 SAGGLYEMNIENFGTTFKTCMSYFTMIMSLK
 1385 >AmelOR104
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 1390 NYTYEQLKNCITIHNKALQFYNNILNESSRNSYLIQVGLNMMGISVTAVQTVVN LDRPEEAI
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 1392 SLTAGGLYEMNMENFGITFKTCMSYFTMLMSLKK
 1393 >AmelOR105
 1394 MSMLQKSNEQEYNAFDIAYYKTLKLYLTICGINPYQNNISIIIIIMIISVCMSFLCPTS IQLWE
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1397 YMHLSCSAVIIVIIISVDSLIIYHACGLFAACGYQIQKLT KVHTIEKNGPNISNIDYEEFK
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 1401 >AmelOR106
 1402 MDVRLEERYLKINKIYSIIVGMWPNQKRKTIPRIFVELIAILAHLTQGGNMVLFSLTLAMD
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 1405 VYIATDTTLVYVQVHACGLLTLAGYRFRNSLNDLYSMRKDSKMDEKIYRRMCYAIKTHK
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 1408 AQVVKTSVSYFTVLKSV
 1409 >AmelOR107
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 1414 SQSIDAHKKAVEYVNKIDACHIHFFILLGMIIVTFTGTFTIKLTSMEIGGRFFTFCTFTIGQLT
 1415 HLLFLMVMGQFLIDSNEEVFKTIYDARWYYGSSKTQSLYLLVLRKCLNPPKLTGGGLIALN
 1416 LDSFVKVLKTSFSYYTVFRSS
 1417 >AmelOR108
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 1424 KLSFSYYTVFRS
 1425 >AmelOR109
 1426 MDERAIEDQYLRINKFFGQLVGVWPYQKKFFKTCIRFITFTIMIFSLATQISRVIVFYSLDVL
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 1432 VQILKASFSYYTVFRS
 1433 >AmelOR110F
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 1440 LKASFSYYTVFRS

1441 >AmelOR111
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 1448 KASFSYYTVFRS
 1449 >AmelOR112
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 1457 >AmelOR113
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 1463 CYVMIQGGQFVIDSCNEIYYSIYEASWYNINPKIQALYILALRRSLTPPRLTAGGLIELNMQSF
 1464 SEVIKLSISYYTVLRST
 1465 >AmelOR114
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 1472 KDKIKR
 1473 >AmelOR115
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 1479 LHLFIYCYVGETLLGQSTGIGLSTYHCNWDLPSSRAVLLMIVIRANVSFQITAGKFSPPFS
 1480 LEFFNAVLKTSAGYLSVLLAMKDRLVEGK
 1481 >AmelOR116
 1482 MTNHLEKQIKLKKINSNKHLLQNNLSIIYYIGLWPDRVKYKYLYNLYTICSLIFLVGIIIVSEII
 1483 YIIINWGKIEIMMTGLTILMTNSTYAAKVIYIICRYERIKNLVDITNSEIFNRDNDKYKHIIISY
 1484 YNWQGIFHHIAYQGFASICIFSYSCIPLQSAFSGKSKQLPIAGWYPYNVTSTPIFEIACLHQV

1485 LVILINCINNIAIDTLITGFIITCCQLTILKKCIARNNNINIEKSPSKIYNKFYENLKHCVKHSII
1486 IFDFTKQIQDIFGIIFFQLFVNCHVCLAAFNLSQIKNYITPEFFGSLLYICCMYQIFIYCWHG
1487 NELYLHSMKICLSAYKNNWWNNNKNFNFYALLIIMIRTQIPLIIVGKVMELSLQNFLILRTS
1488 YSIFTLLKTFTT
1489 >AmelOR117
1490 MKKPFNKSIDYYILPNKIFCSIAGMWPIDEKSSIFSKIFAYVRLIFGLIIVNSFFIPQIIIVMNW
1491 KNIKIIAGIGCVLTTITQVLFKMIYLIARREKTYSLYYKIRNLWNSSNDSKERPYEEFAYWAR
1492 IFSIIFYSSCMCNVFTFSIAAAIDYFKFEYNANNTENNRHLPFIVWYGTDISASPSFEIVFFYQ
1493 IISSSICASVISGLDTSMTIILHVSGQFKLINIWINNIGIEINCNPNYMRKLKVDLIK CIRHHQ
1494 QLIHVNNVNNLFTPIIFIQLLTSGIEICLSGYAVLDNNSANADLLKFISYFISMGIQLLLWC
1495 WPGEILIQESQEIGHVIYLNIPWYNLPPIYQKYLYFMIVRSQQYCRITALTFQTLSICTLSNVF
1496 NTSVSYFTLLRQMQQ
1497 >AmelOR118
1498 MINRPLEYSLRIFGIWPDSPYPKLKIITWIIILPTFLVFQYWYCITHIKLGLIDLLDGLSLTSLN
1499 TLVFIKLIVWFHKRTFYEILMSMKEDLNNNKHSATENKRIIMDKSMLSSRISNFLISYFAITF
1500 FLYSGVALVIFDEDQGKFLVRMEFPFIATISPRYEIILITQFIFESFIVYGAATSIALIALILYVG
1501 SQIDLFCQNLTFHSYKKRESQDTIKDIIVRHQKIIQLSKNIETIFTYISLCQFVSNMLVICFISF
1502 VLTVSLHTEQTIVLIMKCLPYIYAVNCEAFILCYTGEYITSKENINKAVYNFLWYNLKPRD
1503 VRIMLMILRSQKQLTLTAGKFICLSLEAFANMLKASASYVSVLYARY
1504 >AmelOR119
1505 MHTQRDTSEITYSHDTATSRKLFYLLVVVGQMAHASGHEWMKSIRTLSIKINYLKYSG
1506 LGEIDSSCSRILKYAYFVYKVWMLVSMCILAITVFADIYTNMDNLSITDDGCIFAGIFVVIF
1507 KAMNLQIQLESVKKIIDKYHTRNKVMFFGFCVIGACLG FALLCFTPMENGLPIRAKYPLNT
1508 TVSPWHEISFFVETCAVSGGLLGIHVMDSMTTFKCSLITMLLDALSVNFENCNGETKRTICN
1509 RHGKEERNDNNRFLDRYKKCVQFHQRLVVISRDYINKIYSLMLVQMISSTSIICLTGFQA
1510 VVVGQSSNIMKYGIYLSAAMSQLFYICWLGNELGYASSTLDKNQWFSGWCNERLTGIG
1511 QVFTLSTVFTRSIILRASVFYVLSLETFAIHKRSYSFFTLLNNMDLTDH
1512 >AmelOR120
1513 MSNQTNMTNIRNYIFINQLVLKFVGFYPINILRYVICISCIMFIVIPQIIMIYINWNDLNIVME
1514 TGSTLLTILLAALKSIVWIFNRKKLEFFIEFMLTDYWKIETNVFEYLQEYAIYAKNITKGYF
1515 FSMCNALLFFFSLPIIETLTKNENLNNFTIKNFPFAASYPITFYKFPFYEIAYISQILATSICCLM
1516 MLAIIDSLIATALLHTCGHFTVLKENLKNLDTYIYDLTKTNLKTNSKYINKNLYEIKTQIIYII
1517 KHHQLVLWFCDNMEKNFHLILFLQAITSSLICFVGFQISIALTERSKFLESFSLHIVSLFQLL
1518 LFCFPGDILIRQSFNISIAAYSMQWYQLPTFIKDEICMIILRSQRPSFITAGKLYIMHLENFTAI
1519 LSTAFSYFMMLQSFNTEA
1520 >AmelOR121
1521 MHTSESKKYSKDYEWAVRLNRFSNLVICLWPVEEQNMRKQSWTKLHIMTCFMLITFVCTI
1522 PCLCALKQCNNLMEVTDNLAYSIPLIITTIKFIVVSSKKKVLSLIVNMVAKDWAKLKT DHE
1523 KDIMIRRARIARIINIFGYILICILIWLLMILPRFGITIRYVTNETDAKKLFPLPSYYIFDVSETP
1524 YFEIMYALQSISLLIAAFCYAGVDNFFGILIHICGQLTNLRFQLANIKESEASNFIILIAIVKD
1525 HIRLIRVIELLKMFVEQIINLIITIFKYFFKCLKMYIEEEQFSLFRIIYLICNFTNTFLQTFLYFM
1526 AGQMLVTQSEEVHNAAYECEWVSLKYTKAKSLIIMARSKKPLYLTAGKLPVTMLTFCNI
1527 LKISLSYISFLLTIL
1528 >AmelOR122

1529 MNMDVFDKQYRIYRIILKIVGLWPYDKSIYVWIQRICLSMYFLIGVIFQIILLVKSEITLRNYI
1530 VTLSAIFPLLLFFIRYIYYITMFPYVEILFDNIRTEENLLQDTTEIQIQTKYLDISSHIIYIFCCM
1531 TFAFIVAAIIFLVNPVILDLRNPLNESRIFYFDLLFLLDDQSAYIKIFLILNFMNLIFGLLSITS
1532 TESFTNIFSYYICRQFNIVNYRIRKIIDLSTRNLSKIDLKIKDIHRVVDIHCHAIELLYKALIT
1533 MDNRIEIFGSTLIVIIYHLMIAFYNNHCGQLIIDSNLGIFNELFASTWYRIPLKAQKLLLFMIL
1534 RSSMGCEICLSGLFTPSYAGLTSMSSSFSYCTVIYSIQ
1535 >AmelOR123
1536 MNVFDNQYRTYRIILKIVGLWPYDNSIYVRIQRICVLIYFLIGILIQIFSLVKSEISLRNCIVTF
1537 STTFPIVLFCLRYIYCLTLFSYAKVLFDDICIEHLLQDTTEIQIQTKYLDISSHIIYIFCWLSFI
1538 CVASTWIFILNPVILDVIMPLNKFRLHYSVIFLSNDRRKFDIFLVLNSIIIFTFGLLSLICSELF
1539 TNIVSYYICRQFHIVCYRIRKIITDLSMPNLPKTDLKLRLDIHRVVDIHCHAIELLYKALVTTD
1540 NRMEILGSTLIVIIYHVMALYNNHYGQLIINSNHGIFNELCASTWYRIPLKAQKLLLFMIL
1541 RSSMGCEICLSGLFTPSYAGLTSMSSSFSYCAVIYSIQ
1542 >AmelOR124C
1543 MNVFDNQYRTYRIILKIVGLWPYDNSIYVRIQRICVLIYFLIGVLVQIFSFKSEISLRNCIVT
1544 FSTTFPTLLFCLRYIYCLTLFSYAKLLFDDICTEEHLLQDTTEIQIQTKYLDISSHIIYIFC
1545 >AmelOR125
1546 MNMDVFDKQYRIYRIILKIVGLWPYDKSIYVWIQRICLSMYFLIGVIFQIIVLVKSEITLRNY
1547 IVTLSAIFPLLLFFIRYIYYITMFPYAKLLFDDIRTEEYLLLEDETEIQIQTRYLDISSHIIYIFCCM
1548 TFAFIAAAIIFLVNLIILDLRNSLNEFRFYFDLLFFDDQSAYIKIFLILNFMNLTLFGLLSITST
1549 ESLTNIFSYYVCRQFNIVNYRIRKIIDLSTPNLSKIDLKIKDIHRVVDIHCHAIELLYKALTA
1550 MDDRMEILGSTLIVIIYHLMIAFYNNHCGQLIIDSNLGIFNELFASTWYRIPLKAQKLLLFMI
1551 LRSSMDCELRLSGLFTPSYAGLTSMSSSFSYCTVIYSIQ
1552 >AmelOR126
1553 MNVFDNQYRTYRIILKIVGLWPYDNSIYVRIQRICVLIYFLIGVLVQIFSFKSEISLRNCIVT
1554 FSMTFPTVLFCLRYIYCLTLFSYAKLLFDDICTEEHLLQDTTEIQIQTKYLDISSHIIYIFCWLS
1555 FICAAASCILILNPVILDVIMPLNKFRLHYSIFLSNDRRKCIDIFLVLNSIIIFTFGLLSLICSEL
1556 LTNIFSYYICRQFHIVCYRIRKIITDLSTPNLPKTDLKLRLDIHRVVDIHCHAIELLYKALITMD
1557 NRMEILGSILIVIIYHLMALYNNHYGQLIINSNHGIFNELCASTWYRIPLKAQKLLLFMILR
1558 SSMGCEICLSGLFTPSYAGLTSMSSSFSYCAVIYSIQ
1559 >AmelOR127
1560 MNVFDNQYRTYRIILKIVGLWPYDNSIYVRIQRICVLIYFLIGILIQIFSFKSEISLRNCIVTF
1561 STTFPTLLFCLRYIYCLTLFSYAKLLFDDICTEEHLLQDTTEIQIQTKYLDISSHIIYIFCWLSFI
1562 CAAASCIFIVNPVILDVIMPLNKFRLHYSVIFLSNDRRKCIDIFLVLNSIIIFTFGLLSLICSELF
1563 TNIVSYYICRQFHIVSYRIRKIITNLSMSNLPQIDLKLRLDIHRVVDIHCHAIELLYNALITMDN
1564 RVEIFCSTIVVTYHLMALYNNHYGQLIINSNHDIFNELCASTWYRIPLKAQKLLLFMILRS
1565 SMGCEICLSGLFTPSYAGLTSMSSSFSYCAVIYSIQ
1566 >AmelOR128
1567 MNVFDNQYRTYRTVLKIVGLWPYDNSIYVRIQRICVLIYFLIVVLVQIFSLVKSEISLRNCIV
1568 TFSTTFPTLLFCLRYIYCLTLFSYAEELFDNVHTEEHLLLEDTEIQIQTKYLDISSHIIIFCW
1569 MSFICVASTCIFMLNPVILDVIMPLNKFRLHFSIFLSNDRRTYIDIFMVLNLIILIFGLLSIVC
1570 SESLTNIFSYYIYRQFDIVSYRIQKIIDLSMPNLPKTDLKFRDIHRVVDIHCHAIELLYKALI
1571 TMDNRMEIFGCILVVAYHLMIAFYSNYCGQLIIDSNLGIFNELYASTWYRIPLKAQKLLLLM
1572 MLRSTVGCELHLSGLFTPSYAGFTSMSSSFSYCAVIYSIQ

1573 >AmelOR129F
 1574 MNVFDNQYRTYRIILKIIGLWPYDNSIYVWIYRLCLLIYFLVVVLVQIFSLAKSEISLRNCIV
 1575 TLSTTFPTLLYCLRYIYCLTFSYTELLFDNIRTEEHILQDMTEIQIQTKYLDISSHIIDIFCWL
 1576 SFICVAATWIFILNPVTLDVIMPLNKSRIHFSLIFLSNDRRTYIDIFMVLNLIILIFGLLSLICSE
 1577 SLTNIFSYYVCRQFDIVSYRMRKIIVNLSMPNLPKTDLKL RDIHRVVDIHCRTIELLYNALII
 1578 MNNRMEIFGSALMVMYHLMIAFYNNHCGQLIIDS NF GIKELYASTWYRIPLKAQKLLLF
 1579 MMFKSSVGCELRLCGLFTASYAGFTSMMSSSFSYCAVIYSIQ
 1580 >AmelOR130
 1581 MNVFDNQYRIYRIILKIIGLWPYDNSIYVWIQRLCLLSYFFANIIFQIVSLLRSEITLQNSILIL
 1582 SITCPLVLFLRLYIGSIACFP TIKIVFKHIRTEENIVQDSIESQIRMKLIDDSHHIINIFFWMTYT
 1583 TIVIFIYVSYPILDFMIPLNESRTHFIYYITTFSHNQSIYLDILDFNFMFTGIFGLLSVACSESI
 1584 TGIYSYYICILLKIVSYRIQKIIMYLA MFKLSPKQIDSKLIELYRVVDIHNQTIELLVNATLIKK
 1585 NQLEMLFCFTLVAIHLVIFLN NYNGQIVMNSSQELFDELYNSMWFMP LKAQKILLLIML
 1586 QSTTKHAFNILGLFTPCYAGFSTMLSSSFSYFTLMYSIQ
 1587 >AmelOR131
 1588 MDVFDKYYHTYRIVLKIIGLWPYNNSVYVWIQRLCISALFLGNIIFQILSLIRSEITLRNCILI
 1589 LSTTCPLIILLRYISFIFFPMVKLLFHHICVEENAVQDLIEIQIRMKYIGNSRHMIEILLRVTF
 1590 LTITLFSIFLLYFVTMDFIMPLNEFHRHILLYVTLFSVNR TIYFYILYNLFLVITFGLLSLICTE
 1591 SIVGLYSYHTGMLFKIISYRIRKIITYLTMFNVSSKQIDSKLAELHRVVDIHNQAIGLVVNAI
 1592 TIKKDQLEILITLIIFANHLMIMFLCN YNGQILINSNEEFFHELYIPVWYFVPLKVQKILLLIMI
 1593 RSSMACIFHIFGVFIPCYVGFTTMLSTSFSYFTLIYSIQ
 1594 >AmelOR132
 1595 MDVFDKYYHSYRTVLKIIGLWPYNNSIYVWIQRLLLLTFLGNIIFQIMSLLRSEITLRNCILI
 1596 LSTTCPLIISLRYICFILFFPMIKYLFHHMRMEENIVQDSIETRIRTKCINDSCHMIDIFLWMI
 1597 YAIFAFCIILLLCPIILDFIMPLNESRIYIAHYITIFSDKR IYVDILCLNYMFLMIFVVL SIMSTE
 1598 SILGLYSYHTSMLFKIISYRIQKIITYLTIVNLSSKQIDSKLAELYHVVDIHNQAIQLLEN AIIV
 1599 TKDHLEILICMLFVKQLMIMFLCN YNGQILIDNSEELFDELYFSIWYFVPLKVQKILLLIM
 1600 TRSSTTCMFHILGVFVPCYTGFTTMLSTSFSYFTLMYSIQ
 1601 >AmelOR133N
 1602 MEENIIQDSIEAQIRTKYISDSRHMIEILLWMAYATITLYSILGLCPIIFIILLNESPIRMLHYVT
 1603 LLSVNGTIYFYILCLDFLFIIFGLLSMICTETIVGIYIYHTSILFKIISHRIQKIIAYLNMFNLLS
 1604 NQIESKLAELYCVVDIHNQAIQLLVNAITIKKDQLEILISLIIFVNHLVIMFLCNHTAQILINN
 1605 NEEFFHELYISVWYSVPLKVQKILLLIMIRSSMACIFHICGVFVPCHAGFTTMLSTSFSYFTL
 1606 MYSIQ
 1607 >AmelOR134
 1608 MDIFDKHYYSYRTVLKIIGLWPYNNSIYVWIQRLWISALFLGNIIFQIVLLLRSKITVRNCILI
 1609 LSTTCPLIISLRYICFILFFPMIKYLFHHMRMEENIIQDSIEAQIRMKYIGDSRHMIEIFLWMA
 1610 YANITLYSILGLYLIIFIMPLNESPIRMLHYVTLFSVNGTIYFYILCLDFLVIIFGFLSIICETII
 1611 GIYIYHTGVLFKIISHRIQKIITYLTIIDLSSKQIDSKLAELYRVVDIHNQAIQLLVNAITIKKD
 1612 QLEILISLIIFTNQLVFIFLCNHTAQILINNSEEFFYELYSISVWYFVPLKIQKILLLIMIRSSTAC
 1613 MFHIFGVFVSCHAGFTTMLSTSFSYFTLMYSIQ
 1614 >AmelOR135
 1615 MDVFDKQYHSYRTVMKIVGLWPYNNSIYWIQRLLLLTFFLGNVIFQIVSLLKSEITLRNCI
 1616 LLSITCPFIIVSLRYVCFIVFP TIKLLFHHMRVEENIVQDLIEIQIRTKYINDSCHIIDIFFWVA

1617 CTNITLSSISLLYFITLNFIMPLNEFRIIHYITLFSVNRTMYFNILCLDFIFVVIFALLSVICTESII
 1618 GLYSYHISVLFKIINHRIQKIITYLTIVNLSSKQIETKLAELYRVVDMHNQAIELLVNAIIKKD
 1619 QLEISISIFIFVNQLIIMFLCNHSGQILIDNSQKLFNELYISIWYFVPLKVQKILLMIRSSTRC
 1620 MFHILDIFTPCYAGFSKMLSTSFSYFTLIYSMQ
 1621 >AmelOR136
 1622 MNVFDKHYHTYRTLKIVGLWPYNNSIYVWIQRLWFLMFFFGNIIFQIMSLTSAITLQNC
 1623 VLIFSTTCPLIIVLFRYIGLILFFPTIKLLFHHMCMEEAMIQDSIEAQIRRKYIDDSCYMIIDIFF
 1624 WMTYVGIALCSILLCPITLDFIMPLNESRTRIVHYVTIFSDKSIYMDILCLNYMLLAILVIL
 1625 SATCTESILGLYSYHTSIMFKIIGHRIQKIVKYLTMFNLSSKQIDSKLAELYRIVDIHNQAIEL
 1626 LLNAIVIKKDELEILISFIFFTTQLVITFLNNNCNQLIDNSQELFIELYISMWYFVPLKVQKIL
 1627 LLMIRSSTACMINILGVFTPCYIGFSKMLSTSFSYFTLMHSIQ
 1628 >AmelOR137C
 1629 MDIFDKRYCTYRTMLKIVGLWPYNNSIYVWIQRLWLLIFFLGNIIFQVVSLSSEITLRNCILI
 1630 LSLIFPLTIILVRYVSCVIFFSMIKLLFHHMRMGGNIIQDSTEIKIRKKYINDSCHMMNIFFWII
 1631 YGIAALSIIFILYPMTLDFIMPLNRTRIRIIHYITIFPYNRTMYLDILSLNFMFVGIFGSLSLACT
 1632 ESIFGLYCFHASILFKIIIRIQKIVTYLTMFNLSSKQIDTKLTELYRAVDIHNQTIGL
 1633 >AmelOR138N
 1634 VVLSLSEITLRNCILISLIFPLTIILVRYISCIFFSMIKLLFHHMRMERNMIQDSTEIKIRKKYI
 1635 NDSCHMINIFFZIIYGI AVL SIIFILYPMTLDFIMPLNKTRIHHIHYITIFPYNRTIYLDILSLNFM
 1636 FVGIFGSLSLACTESIFGLYCFHANILFKIISYRIQKIVTYLTMFNLSSKQIDMKLTELYRAVDI
 1637 HNQAIGLLVNAIIVKKDQLEMLISFMILMAQLIITFLCNYNQILIDNSQELLDELYISAWYF
 1638 VPLKVQKILLMIRSSTCTFHILGVFIPCYTGFSKILSTSFSYFTMIYSIQ
 1639 >AmelOR139P
 1640 MDIFDKHQSYHSYRTIMKIIGLWPYNNSIYVYIQKLZLLIFFLGQIIFQXDAVIAFFSISLLYPI
 1641 ILDFINSLNESRTRIIHYFTIFFHSRIIYIDILCLNYIFLAIISLLSIICIESMIGLYTIVTTSLFFKIIG
 1642 YRIQKIITXLTIFNLSSKQINSKLVELYHVVD FHNQVIELLVNMILIRKDQLEIFMFFIFLVSQ
 1643 MMIMFICNYSSQILIDNSQELLYDLYISMWYFVPLKVZKILLIMIQQSSITYMISILGVFILCHI
 1644 GFSTMLNTSFSYFTLIXSTQ
 1645 >AmelOR140N
 1646 LRGLYSVWGVNYDAVIECMPPIISIFQSASMYFNGIFNTKKIKNILLFIKNDHKYYINRPENII
 1647 LQKYDLQGKKITFYIYLYVYTTLFVYLLLPTIPLIIDFITSSNHSQKRNFLFELDYGMDKQQ
 1648 YFYIYISHSYIGTAIVANLIASCDTMYMLYAQHAYALFAIVSYELKTIHILNTNNLINVTDHH
 1649 LLEKYKNITLLSKDEKKVYRKLFIKKNHQNAIKYSNLLSLFTKSILVQLFFNVLCLSITGV
 1650 ETVIKLGNLSEMMRFGSFTFAQAVHIFFLCLPGQRLLNHSEELHVSACEVTWYIFPKKYQN
 1651 LYKFLARSLIFSKLTAFKVTTLSMQTFLAIQTAMSYFTVLLSTT
 1652 >AmelOR141
 1653 MIDEKTKREFDKTIDLNLFLKLCGIVPCGDGFARNILAWLAFSCLTIYSISYVHEFITNTTN
 1654 LTTALESVAMIISIVGGHARYTILLWFRDICQTMLNVCEIFWSNLKPHEKKIVQSYTRKTTR
 1655 LTRWYLASCVLTI AFYAFLVLFGSLFDQSKDFEHMRNDSSLVPSEAGNILESMSKRHLPYAF
 1656 FLDVQKTPWYEIVYAVQLIGMFNVGFTCVGVDTV GALFILIICGYFDTIQSRIENLHSDTS
 1657 LSSLLNLSRKITTAKMSDIKTEASNSVQMRNLRMCVIHHQLLLNRFCEDIEHLTSGMFFI
 1658 QVIASTYNISLVGFKLLEDTPDKFKYITQLIILIIQLFCNWPADLLLSKSIDISRATYSMPWY
 1659 GYSYNLQKITNLMIRSQKAVRLTAGKFIGLSLET FASMISTAASFTMVRSMN
 1660 >AmelOR142

1661 MKNRLTPEKAILFTKLSVALTCSWPPSPLATKAQHLLFFNALWCIAFLTSVMLFLPLLAIIYV
1662 YRKHPVILGKTVSLTAAVAQVTIKMIICRLQKRFQMLYSEMENFCKQATNEEKIILQRYV
1663 DRYKYFHSFYILWSFLTTFVICGPLYTVQTFPTHAIYPFSVRRHLYKGLIFFHQSLVGFQVSS
1664 GMAIDTQIALLLRYATARFEILGIQFNNAKSDGEFDACIKKHDELLRYSREIRQSIKFLILAT
1665 NGTTVIAVIFGSLNLIANQPLILKALYAIVVFSASVELFMYAWPADSLMHMTMKMATKVY
1666 NMDWYGKDIRTQRKILFIILRSQKYESFGINGIVPALSLSYYGKYLTSLSYFNALRIMVED
1667 TVN
1668 >AmelOR143
1669 MNIRQILYILELIGTFTCTWPINPNISKRRRIIFRNIFWIFSILNVILLMTSLMLAVVYFRNDILM
1670 SLKTASEMAALLEVVDLILCKWNNSEFQVLIEEVKSFVEMANEYEIKILQGYVNRYKKF
1671 FSTVSMGYISTAISFSLMPLFSAQKLPADGWLPFSTEPFGIYCIIFNHVYCILQTAFCIFVDF
1672 TIVILFSFPAAKLDVLRSLRHHVNNYDTLVSCIKEHQKIIGFVEDTKATVETLLFKTNVTMG
1673 STVMCGAFPLLNNQSLAAISQFLPLVLSGILHLYVIAWPADDLRESSVQFSNSISDIQWLQ
1674 SNKMKSCVIFMMMRSQKAFLIRMSNLLPPLSLEYCSNFITTVSSYFMAMRTMIES
1675 >AmelOR144
1676 MGMLNMDIRQVLHILELTGTFTCTWPINPKDSKKYIIRNLTFTILNVIFLTISLMLAIFHF
1677 RSNIPKSMKTASEMAALLEVVDLVLCWNNSELQVLIEEVKSFLEMASEYEIKILQGYIN
1678 RYKKFFSTVSMGYILPASSFILMPLFSAQELPAEGWLPFSIEPLGIYCVVYNHIYCILQTSF
1679 CIFVDFTIVILFSFPAAKLDVLRSLRHHVNNYDMLVSCIKEHQKILGFVEDTNATVETLLFK
1680 TNVTMGSTVICGAFPLLNNQSLDVVTQFLPLVLSGMLHLFVISWPADDLRESSIQFAESIND
1681 IQWLQSKKMKSCVIFMMIRSQKLFLIRMSSLLPPLSLEYCSNFVTTVSSYFMAMRTMIES
1682 >AmelOR145
1683 MGMLNMNIRQVFYILELTGTFTCAWPINPNDSTYIIRNLTWFTILNVIFLAISMIFAIFHFR
1684 SDIPKSMKTASEMAALLEVLDLALFKWNNSELQILIEEVKSFLEIADEYEIKILQGYINRY
1685 KKFFSTVSMGYILPASSFILTPLLSDKELPTEGWLPFSIEPLGIYCAVYNHVCILQTLSCFI
1686 FVDFTIVILFSFPAAKLDVLGSKLQNVNNYDMLVSCIKEHQKILGFVENSATVETLIFKTN
1687 ITMGSIVICGAFPLLNNQSLDVVTQFLPLILTGMHLFVIAWPADDLRESSIQFAESINDIQW
1688 LGQLKKMKSCVIFMMIRSQKLFLIRMSSLLPPLSLEYCSNFVTTISSYFMAMRTMIES
1689 >AmelOR146
1690 MFRNATPEKAIAFTQFIVSLSCCWPLPSTATKLQTRCFKIIRSLLFLNSLLFFPLLYFVYVNR
1691 NDNTTFCKAMSLSLAVVQVPLLSSFCITQYDRFQRLIKEMKFCCENANSYERQVFQGYAK
1692 SYATFYGVSAIWFYWCALIVVVGTLFISDPFPTNAEYPPFVHFEPVRSIVFVQQALVGFQCS
1693 AHLVCNIFCALLLFAAARFEILMNELRAVENIESLIKIEKYAIRRYAEVNVNSARYTTLI
1694 TLCICGVESVFGGIIFGRQPFTVKLQFLTLSATTLAVFMCAWPADYLMDSVSENTMRAVY
1695 ESEWYKRSLKLQKFVLFATIPQTPVILKVRCHPAFSLNYYCSFITNVLSMFTALRVLMYKD
1696 EN
1697 >AmelOR147C
1698 MLKQVSPEKGIYIIWLSVALSLCWPLPINSTRKQIVCMKILQIGAIISAFMILLPLIYTIYLN
1699 DNLNIFFKSICLLMGVFQHIVQTITCFIKYDSLQRVVEEMMICIKEMQLNEIMCAYVAKCNI
1700 FYGGTIVLIYTTATVFILGPTFLPITFPWETEYPFQVNYTSRNFIIYMHQFFFTYQCAAHICVS
1701 MFVALLWFTSARFECLVKELQKTTNIEMLIVCLKKQLLLRRYAEDVVNCIRFIIFYTMAVS
1702 TIVLTLSGILITTSSLLVKIQFLTICISILLEIYMYAWPADHMYDMSITVLQSVYDSMWYGQT
1703 LNMQKLVLITLIYQKPVTISINVVLPTTYFALLF
1704 >AmelOR148

1705 MLKYVTPEKGIYIVWLSVALSLCWPLPASSTRKQIVCIKILQIGAIISAFMVLLPLIYAIHLNI
1706 HNLINLFKCICLLICVFQNIQTIICFIKYDVLQRVVEEMMTCVKEEQLYKVLCIYVKKCNIF
1707 YGGTIVLTYGAATVFLGPTFLPISFPWETEYPFQINDTSRNIIYHQFFFTYQCAAHICLSLF
1708 GALLLWFAAARFECLVEELQKITNIDMLIVCFKKLLLLRRYAEEVVS CIRFLVFYIAVGT
1709 MLTSGIIMIINSPILVKIQFIICMSSLMEIYMYAWPADHMQDASINILRSAYNSIWYEQSLD
1710 MQKDILLMYQRPVILSINVLLPELTLRYYCSYVANAFSVFTALRAVVEDK
1711 >AmelOR149CN
1712 PARRVVEEMIICKEAQQYERKIFCKYIENCNIFYGSSLTITYLVVIIYIMGPVLPPTFPVDTE
1713 YPFHVNSTIIKIIYLQQSLLIFQCAGHLCISIFCALLLWFTAARFECLIVELQKITNIGMLIICI
1714 KKQLRLRRYARNVNSFRFMIVYAIGVSTFALILYGIIMIVKAPLIMKIESVTLSFVLLLQIYI
1715 YAWPADHMKDM
1716 >AmelOR150C
1717 MLKQLTPEKAIHITWISVAITFCWPLPANSTKIQVFMFKTLQIISIINAFILLPLLYSVYLHFD
1718 DIVIVFKSIALCVGLSQMIIQTAICFVKYNTLQRVIEEMITYVKEAQQYERKIFHKYIKKCYT
1719 FYGCSIICMYLTGLAFIIGPAFSPASFPADA EYPFQINYSIKVIIYLQQTLVGFQCTAHICLSV
1720 FGALLLWFTAARFECLIVELKKITNISM LIVCIKKQLHIRRYAKKVIGFRFIILCAIGISTFAL
1721 TLGGVIMIKKAPFIVKVQFITLILTLTEIYIYTPANHMKDMSINVSQSIYNITWYKQTLR
1722 MQKDVLTVLMYQQPIILSINCILPELTLHYYCS
1723 >AmelOR151
1724 MLKQLTPEKVIYITWVSVALTLCWPLPANNGKIQVFMFKALQIISIINAFILLPLLYSVYLH
1725 FDDVIIVSKCVAVSIGLTQVITQTIICFAKYDSLQHVIEEMIICIKAAQQYEEKIFHKYIEKCY
1726 TFYACSITCMYLTATAFIIGPAFSPASFPIDAEYPFQINYSVKIIYLQQTLVGFQCAAHVCLS
1727 IFGALLLWFTAARFECLAVELQKITNIGMLIACVKKQLRIRRYAKKVVISFRFIILYAI VSTF
1728 VLILDGIIMIMKVS LIVKVQFITLSLTLTEIYIYAWPADYMKDMSTNVSKSVYNITWYKQT
1729 LRMQKDVLNILVYQQPIIFSVNCILPELSLRYYCSYLSNAFSIFTAIRVMIEDDP
1730 >AmelOR152
1731 MLKQIISEKTIQIWFVVAITFCWPISLNSSKTQVFIFKILQIISIINVFM LLLPLLYSVYLHFNDI
1732 IIVSKSIALSVGLIQVIVQTIICFIKYDSLQHVVEEMIIYVKEAQQYEEKIFHKYIEKCHIFYG
1733 CSIACIYLTATV FVIGPVFSSASFPADA EYPFQVNSTSMKIIYLQQSLIAFQCAGHACLSIFG
1734 ALLLW FVSARFECLAVELQKTTDIGMLIVCVKKQLHIRRYARRVVISFRFIILCAMGV SIFSL
1735 TLGGIIMITKSPFIVKVQFITLILTLTEIYMYAWPADHMKDMSINVS KSVYNTIWYEQTLR
1736 MQKNLLNILMYQQPIILSINCILPELSLRYYCSYLSNAFSIFTAIRVIIENNPS
1737 >AmelOR153P
1738 MVKEMIPEKTIHITWLSVALCWPLSVNSGKTQVFIFKMLQIISIVSACMLLLSSYSIYFXH
1739 GQCRIFKNYHRFIDVAQNIIQTVICFYI IKEMKICIKETQEYEIEIFQKYIAKFKTVWGCNITC
1740 MYLTALAFTIGSVFISTLSLSCDAEYPFQLNYTLVF AIRYQSFLSYQCAYACADHXLLWFTAP
1741 RFECLCVELQNV TNINMLIVCXYAKKMINWFRFIIFNAIGLSILVFTLASIILIMISICMYIVV
1742 CSCMYNFINKNYMYIWPADYMTDKSINVS RKIYDSMXYKQMLKMQKNLLKXLIFQRP
1743 VXIYRLZLLSKLILRYYCLYLSNVFSIFTALHVLEDNI
1744 >AmelOR154
1745 MLKKVTPENVIIIRLSVAICCCWPRPFNSTKNQIFAFKVLQISTIISAFMVFLPLLYSIY LHN
1746 DNIIHVFKCICLSIGITQLIVQTLICFIKHNSLQRVVEEMVNCVKQAQQSEIEIFYKYIEKCKI
1747 FYGSSIAFSYLAATAFMLGPAILPISFPLEAEYPFHVNESLITIIIMHQSLVSYQCSANVCVSI
1748 FGALLLWFTVARFECLIEEFQKCSNIDMMIACIKKQLQLKRYAEEIINC FRYIVLYGIAVTTF

1749 ALILCGIILLMNIPLIVKIQFVIICITIMTEVYMYAWPADYVKNMSINISRSVYELSWYEQTIE
1750 MQKNFLNLVLYQKPVIFSISCIVPELSLRYYCSYLSNVFSIFTTLRVLLED TSA
1751 >AmelOR155C
1752 MLKKATPEKIIDIIRFSVAICFCWPYPLNSSRNQIFGFKVLQISTMVSACIMLLPLLYSIYLNH
1753 DDVIHISKCICISIGVTQLIVQTLVCFIKHNSLQRVVGEMMKCVKEAQQNEIEIFSKYIEKCK
1754 IFYGSSIIFSULTSTAFMLGPILPISFPFDAEYPFHVNHSLVTIIYIHQSLVGYQCSANVCASV
1755 FGALLLWFTVARFECLIVEFQKCTDIDMVIACVKKQVQLRSYAKEVIKCFRYIVLYYITITTF
1756 ALIISCIILLMNVPLIVKMQFIIICVTIMTEIYIYAWPADYVKNMSINISKSVYELSWYEQTLE
1757 MRKYLLNLVIYQKPITFSISCIVPELT LRY YCS
1758 >AmelOR156
1759 MIEQVMLKRVIYITWLSVALCFCWPVSANTS RNQIIVFRFFQIFTI SSCLGSLPMFHSIYLHQ
1760 DDIVIVAKSISIMVVL IQLIVQTTICA IKHDTLQHII EEMITYMKEAKQYEKKIIQKYVSKCYI
1761 LYGS AIIISYLT TTTIFILGP IFLPISLPFYTEFPLSLNNTAVYIIIFHQCF FAYQCSATVCLSIFGA
1762 LLLWFVVIKFECLIMKIQNISNKDMMVICIKQLQIRRYAKEIANCFRHIIFYTHIATSFNMIL
1763 AGIILIMNPLLVIKIQFMITCFTALIEVYLYAWPAQYMDDMSKNVSISAYNLKWYEQTSEM
1764 QQNILIMLIFQKPISLSINFLMPKLSLRSYCA YLSNAFSIFTALRVILKD NSI
1765 >AmelOR157
1766 MRRARPEKSVYLVWLSVAMTFCWPLPPDTARKRIVGMKVLLIISIVNGCAVILPMLYWIHL
1767 HLDDIISLFKCICVALCLVQYVAQTIVCLVKYDTLQRVVDEMMGLIEERRMYEILRAYASK
1768 CNTLYGASIASIYVCGTSFIFAPLFLPNPFPEFETEYPFHVN TTTTRIFIIYASHVLVIFQGT AHMC
1769 LCMFGALLLWFTTARFECLIGELRGVTSVDTLVVCLEKHSRLKRYAE EVVSCIRFLVFHAIL
1770 LGTFVLTLCGIVLIINSPLIVKAQFIIICVCILLEIYLYALPADYMYDMSMNISRSVYDSIWYE
1771 QRLDLQKALLTVLAFQKPIAVSINVLPELTIRYYCSYVSNALSIFAALRTVVE
1772 >AmelOR158F
1773 MLKQITPEKSIYIIWLSVALSFCWPLHINSTRKQIMYIKILQISAVVNAFMVLLPLIYTIHLN
1774 MHNLI NLFQCICLLICIFKHIIQTVICFIKYNALQRVVEEMMICVKEEQLYDILCMYVKKCN I
1775 FYGGTIVLIYGTATVFVLGP IFLPISFPWGTEYPFQVNYTTINVIYAHQFFLVYQCA AHTCL
1776 SLFGALLLWFATARFECLIKELQKITSIDMLIVCLKKLLFLRRYAE EVVSSIRFLVFYAITISTF
1777 TLTLSGIIMIINCPLFVKMEFITISISLLVQIYIYAWPADYMQDMSINVLRSAYNSIWYEQTLD
1778 MQKTLLIMMAYQKPVTF SINVLPELT LRYCCSYVSNALSIFTALRAVVEVT
1779 >AmelOR159CN
1780 YRLEHAMDTYKQGNEIEIYYI ICTKL IKAIEVYKLAVKFVFFCQIFFFFQGNFNLHFPLLKV
1781 VYMLQQLENIYKLCINLILLIRKFCFLFLITYLGQNIENHSNEVF EKCYDSLWYTAPVATRK
1782 LLLIIMINIMKPCQCKMFGGLFKGNIEGFAQIIRICISYFMSLYSTQ
1783 >AmelOR160
1784 MRRPISSYVELFYDKNVISWSKRLGLSGLWPDNRNDVRFFLYITYVVIFTWLEIVTLVQNI
1785 HDLEKTLKNITLSFPTILIVLKAVMFRMNMHLVLP LLTVVKRDVNEGLYRSAEERRTVVW
1786 YNVAATLFTSSALSLFFVPTLFYAKPIIGCLLSKYNNCTLPFELPMKVNNVYEITKLQTYA
1787 LFCVYL IPTSTLLTIGATGADSLVTLTFHLCSQLSIVAYRM RNVNIEPKIYFPKMKA LVERH
1788 TELLRLANILANTFSSLMFVQTLGLIFSLCIVVYQLLMTSES GEDMNTIHFIIYSCAVILLAF
1789 CYCFLGECLINESSEVQMACYFTNWDLP EQYTRSLIFCIARAQKPLYLTAGKFYVFSLET F
1790 AVIVKASMAYLSVLKSII
1791 >AmelOR161
1792 MGEFRNEEYDQLIKPIMITGKIISIWPLAENSSRITITFRRFHLFCMFFLVIVMSVAVTADV V

1793 HNIDDLDEATECALICTAFYLCVVRLLVYSFHQKDMLYVVNTMKEDWLSSSDQDRLIYAE
1794 KTMFAFRLAKYFITTVAITIVMFMSVPILEIYVIGNSDKVLPFRGYFFINQTVSPIFEFLYLFN
1795 VTAGGFGGSMIAGATSFNLVIIHGSGKFVLRRRMEALNGADPNSSAAIMGDNVIRHQQAI
1796 KFADTLERIINLLALGQFVISTGLICFAGFQITSMMEDKGRLMKYSTFLNSAILELFMFSFSG
1797 NGLIDSEGIGESAYNSGWIGSRFCRSVQIMMMRSKIPSKITAAKFYSMSLESFSAVLSTSFS
1798 YFTVLTATKNE
1799 >AmelOR162P
1800 MKRLMDIMQEDWKFHARLRNEYEILCEHYAIARKITTSFVAFLLGLTTPFGAMPLLLNIGD
1801 ALGLCNISDDRPLAFRVEYFVDVDKYYYLLLVHSSIGTLGYTVIVLAINSHIIVYVLHECGL
1802 CEILRESNNMICKIFLKDSLDIYTLDKIMNQFIIVQGETRKLCCGNGCNGYRITPPQZKGZMV
1803 SKCQGLCTLAQTHNRVSIKLITKFQLILTYLFFFLIFQISRFLSLRFAKILEDNTTTSYLLQL
1804 GFNMICISFTQFQAIINIEDTPKVLRYVSITIALLCDLLFVSWTGQQLSNSTERIFEYTTNGK
1805 WYQSSISCRKLLAIMLSKSIAPLRLTACKLYTLNLESFTTIAKTSVSYTMVLCSLQ
1806 >AmelOR163
1807 MFKTIITYPVEVCLRLIGVWPYSSYRIMQRIFWTIIMGNSTVFQLWYCISYFKTADLFDLLD
1808 GITLTLNNTVTFFKLILWFNYRTIHNILTIVFEDWNNRALTDKKKQLMVDNTRLSSRISNFL
1809 FGIYSVTCILYSASIALISDDIDNTNNELILNNKKLLLKMKLDPDFTIFPLYEFVIVAQFVFEC
1810 FVALTAGMLMAFSAALVLHIGSQIDITCQELIEIPRHKGKTSYILKNIIVKHQIRLRLSENVK
1811 YLFLYTSLIQFLSNILVICFLGFILVNALGTEQESTIFIKCFPYIAANCEAFILCYTGEYLMFK
1812 NESIVHAAYDTLWYNLNPDRSRIVLLILQAQRKLILSAGNFVTLVSVQTFASMQKVSASYIS
1813 ILMTIY
1814 >AmelOR164F
1815 MAKSIINRPVEISRLIGAWPNSSCQILKYIMWTIVMSIFLIFQYSYCIHIKTATLIDILDCLSI
1816 TCSNTLLLLKFIIWFHKKRVLFESLIIAEDWDNCKFEWNMEIMMQKAILSRIAKLMLIIFIC
1817 SIFMYAVSTFFGPDIGASHSDQKKFLLKMEFPFEATVSPLYEIIITIQLVMQFMFATMAGMF
1818 MTHATFVLHIASQLDIICDRLSEILDEHKEQELRIRIICKLIAKHQRTLNLSENENIFTFISLS
1819 QFFFNILVICFVNILVTSIGTEQAPTVISKCFPYIALNFEALILCYTGEYLSSKSENISWIAY
1820 NSNWYELSIYEIRVLLLLIMRSQKPLTLTIGKYMKLSLETANMLKISASYASVLYALE
1821 >AmelOR165C
1822 MLVLNTLSPSVKFGLHFAGIWPGTFFPYLHKLGWLAIAALQSYQYRYIVMHYKSDNLM
1823 SIIDNLSIAMPFSLVFIKLIVTWINYGVFCDILSTMEKDCQKYAVIDINNLSKTGQISFYTTTI
1824 VMSSYLVSAAFYITGTALFQRTNSSISRELLFKMDLPFETNESPNYEFVVTSQLLIHVSAAF
1825 TFGTFSALLMMVLHIGCQIDILCQNLLDIPHISTSHLKFIIIRYQEIIITFAERVEKLFTYIALS
1826 QLVSNTLITCCVGLIVIAIHEDNGLPLLLKSVLFYMVICLEAFIYCFAGEYLRK
1827 >AmelOR166C
1828 MTSINTISRSVKYGLYFAASWPGASFSLHKFFWTIIFCTLHISQYSYLIMHYKYDALTEIID
1829 NISICLPHSLVCIKLFTAWTQNTLIRNILLSMEEECQKYAIMDTDNLISKTAYLSYRLTSTIICT
1830 CVASTVCYAIGIFSHQEVNVTSSRELLLKMNLPFDTNKSPIYEFVVIIQYFYQVSAAVFVGV
1831 FAAFLLMIVLVHVCQIDIMCQTLMKTTHRDQKKLFFIKRHQEIIILAEKIEKFFTYIALSQ
1832 LISNTLITCCLGYLIVITLHLGNNIILIKYIMFYVAVCSEAFIYCFAGEYLSIKSKLIADTAYEFL
1833 WYNMNPNESRLLIPIILRAQRGFTFTFGKFATLSMESFTA
1834 >AmelOR167C
1835 MIPIRSISHPIVIGLRLIGIWPKSSYEIIVRFMWVIIMMCAQIFQYQYIINHIGFDNLADLIDSV
1836 STTLPYSLLCFKLISFWTKREIFENILIGMYHDWTNAFATDFIVEDMIKKTELAYYCSNLIS

1837 IYAI AVFLYVGVFLELSHDHDQENRSNLSPELLIKMDLPFTYDESPIY EYVFIVQFIQLFFIAS
1838 SIAVL DALIITLIFHIGGQIEILHKT LKNISINDEKPESSRII KSLIDRHYRIIGSEYIESLFSYIA
1839 LMQLICNTLIICCIGFLIVVALNSNLKLLIRISFFYIAITLEAFIFS IAGEYLSNKSLSVSISAYES
1840 PWYLLSPKNRGVMILLMVRSQRRLTITAGKFMDLSMQGFAN
1841 >AmelOR168
1842 MNFQNLNRLNALANVVS GNFLPMTNINEKSSVISKIYFVIVWIIQLMYLASCTLGLFNVS
1843 ERALKDGTVMVLLLEVIILNVYLHSRKKLLRELIGKLNQILINEDEIFRNV TISTTKMLEK
1844 PSRIYIIVNVISIIVWISSPLIKLFQKDEFYHEDFVMPAVFSNQPFSTGVFISGVFLQLFGGEYL
1845 LFRKISLDLYTMHLNLLITSQYKYLRIKFATILKENGESAKDNDKTIRQEMKLLIRHFETVIE
1846 MTGILKKLLSPNIGILYLN YVFRFCFLSFMFATTSLSEKLT YTIIVSYTTGALIQFYILCYCIQ
1847 DLFEASTSIADDDVVEK WYSYDVRVFQRVILMISLANELKCKISNFQ NIDLTLP SFMSILNQA
1848 YSICLLFLKTKQD
1849 >AmelOR169
1850 MKMFQNLNRLNTFVNAVSGN ILPITDMKKRLSIVLKIYSILVWTIELSYLAACILGLFNVS
1851 RERALKDSTVNIVISLEVFVLIVYLHNRENLLRELIGKLNCLLIVDD ETLRDVTIGTVKPLE
1852 KPLRVYIIASVGS LMIWASLPLAKIFRKSEFY YTDYQVPAVISNEPFP IGVFIGGVALQIFGSA
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1854 KQEMKLLTRHFEIVVEMTVMLKKLLSPNIGILYIN YVFRFCFLSFM LATSSGMHFEKCLLV
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1856 FRNIDLTLP SFMSILNQAYSVCLLFLKARQS
1857 >AmelOR170
1858 MNFQNLNRLNAFANMVSGN FLPMTNINEKLSTILKIYFVVAWIIELIYVAASFLGLFNVS
1859 KALKDGTVNIAISFEVIVFNIYLHSRKKLLHKLIGKLNHLLITEDEIFRSVIIDTVKPLEMPLK
1860 IYVIASVASLMIWILSPLIKLFQKDEFY YEDFIMPAVFSKQQPFSNDV FICGIFLQLLGGEDTII
1861 RKISLDIYTIYLC LLITAQYKYLRIKFAIILKEEREITKDHYKNIIWRNDNVRQEMKLVTRHF
1862 ETVIETTTILKKLISP NIGFLYLSYVFRFCFLSFMFAMTTAKYFEKCLLAS YTIGALIQFYILC
1863 YCIQRLFEASSSIADDDVVEK WYYYDVRFQRVILMISLSNELKCKISNFQ NIDLTLP TFMSIL
1864 NQAYSVCLLFLKARQD
1865 >NvitOR1
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1868 ARFHALAITKMRRLLFCVAGATIFS VISWTGITFVDES VKRIVDPETNETTIIPRLMIRTFY
1869 PFNAMSGAGHV FALIYQFYLIISMAISNSLDVLFCSWLLFACEQLQHLKAIMKPLMELSA
1870 TLDTVVPNSGELFKAGSADHLRDSQGVQPSGNGDNVLDVDLRGIYSNRQDFTATFRPTAG
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1872 LTLLAYQATKVN GN VNYAATVIGYLLYTLGQVFLFCIFGNRLIEESSSV MEAAYSCHWYD
1873 GSEEAKTFVQIVCQCQC KAMSISGAKFFT VSLDLFASVLGAVVTYFMVLVQLK
1874 >NvitOR2
1875 MTSKVSPKLEKAPLAYVNEQYLADTEYVVRVAKTLLMPIGIWPRYGDNSTLSNAIYIRVC
1876 LIFCLMLFLLTPHFIWTFKAEDLRKLMKIIAAQVFSS LAVLKFWTLILNKQDIRYCLEIME
1877 NDYRVVESEEDRQIMLKN AKIGRFFTAYLGLSYGGALPYHIIMPLLQPRVLRSDNTTMIP
1878 LPYPSEYVFFIVEDSPLYEIVFVTQILISSIILSTNTGVYSLIACVVMHCCCLFEVTSNRAEKL
1879 LRGMKYDKSKISPELGKKLSELIDFHVKAIQYAETMENALNIVMLSEMGGCTIIICFLEYGI
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1881 MKDLKFVMARANQPTRLTAGKLFDSLQGFCDVAKTSMAYLNFLRTLEIT
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 1885 RKSQIQECLKQLESDWRKAGNDELRALMRRNTAVGHRLSRVCVATFYVGGIFYRLIKTLL
 1886 TPIRYTKDGLMIKPLPSPLYKGLFRFNTSASPVEYETIFATQMMSGFVVHSTTVTTC SYAVLL
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 1897 IGCTLNICFLEY YFITEWENQNTVSTMTY CILLISFIFNIFICYIGELLTEQSKKIGEVTYAIN
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 1899 >NvitOR6
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 1902 MLINAKTGRVLT MVC MFLMYGGGMPYVTIVPLTKGVTMVG NVSYRHLAYPSYYIFFNPH
 1903 VRPIYDVIFATHCICGFTRYTITCAVYSIVIICVMHICSRIAITS SMLQRLADDS DGRLLGTAV
 1904 KHHL DILKFATKLENIFKEIFLA EVLGSTYQICLLGY YFITEYEQRAGIATATYLF LFMSFVF
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 1906 FSSIVKAAGGYLNILRTAVANSN
 1907 >NvitOR7
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 1915 >NvitOR8
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 1923 >NvitOR9
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1931 >NvitOR10
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1934 EGSEQRGYMLENAKTARVFTTICALFMYGGGLPYSTILPLTRDAIIVGND SYRHLAYPSYFI
1935 FFNPHIRPIYDLVFFAHCLCGFVMYSVTCGVCSIAILCIMHICSQCSITSATLRSLTSDVDEKT
1936 FGKIVTQHLSLKFASKLEKILNDMCLVELIGCTFNICMLGY YFITEFEQSETVGTITYSLLL
1937 ISLTFNIFICYIGDLLTEQCENIGE VAYMINWYQFSGKDARNIILIVASTQRPVVLTAGKMV
1938 TLSIRSF CNVIKASVTYLNMLRTL TASES
1939 >NvitOR12
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1942 NGKLGSLITLVIYTLTCGSYVAYVIMITYINVG GSKQEDVITL NESKKLRPLYMRSYFIYDV
1943 QKTPVYEIIWIFQFVSMGVATFTFMAVDSLFAVLM MHLCGQLINLQERLKNFTNMLGQTK
1944 TRNFSYQLSTIVSRHEQLNRFAKAIENAFNTMFLVQMLLSGMVLC LQGYQIVIILTGRDTV
1945 QIIELLFMVYYTLCFAFSLFVYCYIAEILRIESMEIGNAAYHCDWYDLSAFERRLFILTIIRSK
1946 TPFEITAGKFAAFSLEFYCSILKTSGGYLSVLLAVQDRLAA
1947 >NvitOR13
1948 MTVEIAEDSMERIVALSDDQNV DGYNHAIGPCRFFLRLLGTWPD PYGNVDSWTT SARCL
1949 VITATMFLFATISQTVKMALSYKDLNLVTEILTNCNIPTTIATIKIASIWYYRWVLRDLVRQII
1950 EDWEMSHDRHESAIMWRS AKISRIFSIGCMFMTEGTLLTQC VVGLFRPISYAFKTDLNQSI
1951 EWPLYMKGSPYDVQSSPNYELSILGQLLSNVFASTSFSSADSFFIVLMFHLIGQLSILKLT I
1952 LDLPSKIENSDDRSKFIDRFAFVHMRHNLWRFSMAIEESFNTMFLIQMIPCIFALCTQGYQ
1953 LIMIMDADNVSLMELIFMIYFLVLFLFTIFTYCYVTEILRCKSLELSYAVYDCDW TILPAKEA
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1955 >NvitOR14
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1958 ARFSRKLSAVCIGLAQGTITAQFIMVVVFDVNNKG EAERTLYMISYFPYDTQVSPNYEITW
1959 LGQCFSNIFAAGAFSAVD AFFAVLVHLCCQLSILRKELVMLADH HKKQGDNSEEF SRKLA
1960 RIVEKHEYFNSFAKTIEDSFNTMFLSQMIASSLALCLQGYQLVMIITNTEGKLPVFQLIHMI
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1962 AGKFCAFSRLRYCSILKTSGGYLSM LLAVKDRLVVEAD
1963 >NvitOR15
1964 MAEKEQG FQTAFSVTRFVMRFQGIWPGVDKPR TGFSRFQFIPAALMMVFFINAVQTMELT
1965 RVGGDLNMIIDILTFADIPIFIALVKHVGIA YNNKVLYKLLY LISEDWKEVTKESEKKVMWQ
1966 KARLSRIFTMIEVSLGLGRLFIHTIRMTYAMLHPTSF DPTGKLIRPSYMRGYFIYDSQSTPIY
1967 EITWGCQFVATAFGGCAFASADALFVALVFHLCGQLTNLQTEFREV GKNTSGKKLEFVRSL
1968 ARIKKKHRRICHMADTVEYCFNKIYLVQVSSSVIFCLHGYS LVTILFDQDDVVVELIVMTF

1969 FTLGFIYSMFVYCYVAECLSTESLALSSAIFDNTWYDLPPKHAKLLLLPLQRTGKPLIVTAG
1970 KFVVFSNLNFSNIIKTSAGYLSMLLALREKL
1971 >NvitOR16
1972 MDDKEGFEVAVKASRTILRVLGIWPNHHERTESWLSRSYFIMPTFILVYFTSFPQTMEIHKV
1973 WGDLSNVLELLTTFDIPNLISLIKILSVWYNKKVLGLLIMAMENDWKS LKTVFELRVMWK
1974 NVKLGR LITLAIYLLTYSTVATYVVMNAVYITANAYKQEFILTPDNSTKL RPQYMR AHFAYD
1975 VQKSPVYEIVWIFQCIAMHLA GLSFMAIDSLFSILVLHLCGQLINLQERLKNVTENLTKRH
1976 NLSYQLSRIVMRHEQLDRFAKAIENAFNTMFLAQILLSGVVLC LQGYQIVII LTSRDTVQVT
1977 ELLFMIYFILCIAFSLFIYCYIAEILRTESTEIGNAAYECN WYDL PACETRLFILTMIRSKTPFE
1978 ITAGKFTAFSLQLYCSILKTSGGYLSMLLAVKERLAL
1979 >NvitOR17
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1982 RNARLSRLLSVTIIGLAEGTIVAQFAMVIYFNVLEARQYSLTKDNVTARFRPLYMSAQFFY
1983 DAQKSPNYEIH WLFQCSSTIFAASAFSSVD AFFAVLMLHLCGQLNNLREKLKKLPKQISDK
1984 GGSFVEKLS EIVTRHDHLDRFGNAIEDAFNVMFLVQMVASSMVLC LQGYQLVMITTAG
1985 DGIPLFELIFMIYFTCCFTFSLFVYCYVAEVLRTESMEVGNAAYESN WYDL PSCETKLLML
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1987 >NvitOR19
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1990 LNARKSRMF SIICIVLSEGTAMAYSARMFYAAFSTHTKAQATGIDDCEKPLFFIGKFPFDPQ
1991 SYPNYQITWTLQIIATFLAAGAFSSVDALFVTLVLHLCGQLTNLQAAFSEIGEENAEKGTM
1992 FVSKLSKLIERHRKINVFADII EYSFNMMFLVQVLSSTLLLCLQGYLFMIILSGQDGLLVEMI
1993 FISYFTICFTSIFVYCYVAELLQE KSLQLGYAIFYSKWYNLP AKKARLLIISIVRCKRPLEIS
1994 AGKFCIFSLNLCNIVRTSAGYMSVLLAVKDKIT
1995 >NvitOR20
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1998 NARISRTFSILFIGLA ETVTLANTARMFYILYSTRSEAESSGIKNYKKPLYYTGKFPYDAQSS
1999 PNFEITWVMQILATILAAGSFMAVDALFVTLVLHLCAQLTNLQTAFRKIGEDKHEKEVD FM
2000 SKLSKLMKRHRKINEFADII EYSFNMMFLFQVMSSTFLLCLQGYLFVILISSQKVILVELIFM
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2003 >NvitOR21
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2006 WENVKL GK FIMNGYAVLT YGTVVLYAAGMLLLMNSQKIEDFDNENITQSRLMFVRSKFPF
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2008 FVQHMRDLVERHIHLQRFTQIIENN FNKVFLMQMIGYSVTLCLQGYQLVISLTENSEQN FIT
2009 IAFILVYTTANILSLFVYCYVAEKL RKESTEIFYAVCAMPWHEVKPEESKMIVNIMYAAKHP
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2011 >NvitOR22
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 2015 FAGALLSTFIFSSFDGFFVFSILHFSSQLSNLNIRIRSLTEKTS GDKCQFVESLKS VVKHHQH
 2016 LISYTDIIEYNFNKIFLVQIFATSIVLCLQGYQFVMIISESGTKLLTSLIFILVFTTGNVLSLFMY
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 2018 VVKTSVGYLSVLLAVRNKIND
 2019 >NvitOR23
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 2030 QNAHTANKIYLTCFFLGNSAVNSYTLLRLGQEMSFLPGPPDKRQPLFDAYFPYDDKRSPAY
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 2033 PYLQIGFLLIFTAHS GFHLFACCYAAERLQNESLSIFEAAYSCEWYNLSPQDAKMLLFIMQR
 2034 TKTPLRVTAGKLCVFGLELFAKILKTAGGYLSILLAMRDRLVIDEPI
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 2038 SKNARTARKMSLVCVVLGFGSVNGQLAVRISQELDILPGQTEKRLPMLSSYIPYEQYQTS
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 2043 >NvitOR26
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 2046 CANARLAHRISMICVFLAGGTVSIHAVLRTCQELDIMP GPPEKRLPLFSSSYVPYDYKSSPI
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 2049 FPILELFFLMVYIMHVGTHVFICCFVADKLREESLLICNSVYNYQWYKLSAQDAKMLIFV
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 2055 TFLKSDFYFNEQPEGIYEAVVAAQILGGFYVAFATACDGGFFVSILHVSGQICNLQLQIEGL
 2056 VQNHEQRRCSFIKVLAPIVVRHRDLRGYAAVIEENFNKIFLVQMIATSIFLCLQGFEFAMVIT

2057 KSGSEMVPYLMFILCFVASNLVSIFTYCYVAERLREQSENLFRAIFEIRWYDLAPNDSKLLII
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2059 >NvitOR28
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2062 WSN AQTT RRISMICVILGAGTVNGHLFIRLGQEAKILPGKDGATRLSFVDSYFPYDYSPTPI
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2065 VIYVLHIGHTHLFICCYVSEKLQDESVSIVRAAYNCEWYNLSAKDAMLLVMIMNRAKKPLR
2066 ITAGKFCAFSLSLYAQIFKTSGGYLSMLLAVRDRI
2067 >NvitOR29
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2072 GYIVMRHQCLYNFAQVVEKMFNLMFLAEILGCTIQFCMQGFLLTLSSKEGMGLPILHIMF
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2075 >NvitOR31
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2081 SHLFICCYVSERLQDESVSIANAAYKCQWYHLPKDVMLLVMVINRAKDPIQITAGKFCV
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2083 >NvitOR35
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2088 LENLVRQDDKALRSRQFNRRFGIFVDRHVHLMTMVTAVEYSFSFVIM AQIFCMSIMVCSL
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2099 >NvitOR37
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 2131 >NvitOR44
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2145 >NvitOR46
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 2152 >NvitOR47
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 2160 >NvitOR48
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 2168 >NvitOR50
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 2175 >NvitOR51
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 2178 YPKVFATLFIFFIVIIISYVNKAETYERGLIMTTRYPFIEIKSIGLKLFLNLSQFITLLHASSILIT
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 2191 >NvitOR56
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 2198 >NvitOR58
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 2219 LKTDVLKIGEDEKVPGEWK NKIVECVHRHRL LGMAKALNKV VSGVLVIQ LLLNAGLNL
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2237 RAVR
2238 >NvitOR64
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2245 ILSLTRATR
2246 >NvitOR65
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2262 >NvitOR67
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2277 ASYA
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2298 EFSENVENIFTVISFFHISLLTLMQVLSGYMFILNLEEGGEILQTLHHGLIIVILVSCGYCIA
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2300 TSFSYLSLVRQVH
2301 >NvitOR76
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2323 IIGFKLIIALNDGGFEFLVYVAFMFVALLQIFLYCRPGDELIVQSTAVGYAAYQSHWTSLEAE
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2340 VKTSYSVFNVNLV
2341 >NvitOR81
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2365 >NvitOR86
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2453 >NvitOR101
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 2456 HEKINTRIRHITVTYFISMISIILMKDLGPIAESGLAIQLPADGWYPYDIENSVLFGITYVHQV
 2457 ILGSFVICAHV GIDTLFVGLLLKLLGQINILKHRLQILGNSLDHKMISLNKFESFQTVQKHLI
 2458 LECIH HHKRIYRFGEDLNKIFQEMLLILVSSLPNICINIYALSSNLKNINMDYIATFFSTTSA
 2459 FIQFFIACWFGNEVSLNSVEVRNAVYAMDWNKLDTP TQKLLIVVMARSLKPIEFSVG YIIP
 2460 MNVDSFLKIIKASYTAFNLLQQTSSS
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 2463 HFVSSFGTDNFKLINFFLVSANITAVYKSIRLMQ NREVLRYFIISYFDYEWTKSHDSVEHEIN
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 2465 LGSSAVGAHIGIDTLFVGLLLKTSGQIHL LNYRLRNLMMLLKECNFAKLKEYSEKNVVLRCI
 2466 YHHKRIYRFGGDLNDKFQEILFILVSSLPNICIN VYSLSSYKGNINVQYIATIFSTTSALLQF
 2467 FIACWYGNETTFDSLQVINAVYEMDWTNFHVSTKRLLIFIMLRASKPLKFSVAYIIPMN LDS
 2468 FIKI IKASYTAFNLLQQT TN
 2469 >NvitOR103
 2470 MDLSQCLEYRALPMQFYIFTL SGVWCPSNWTSL LKLSYNMYTTTIAISGILFWASMFVNLI
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 2472 YAHETR WVTQVYAIGI IAGLATKAIMPMLNSNSAWVLP IEAWYPYNTSNLKNYLFAYTQQ
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 2475 CLMQIFLYCWYGNKIILL SIDVANTAYTTN WLSLNISSKKKLLTIMVRATRSIQFAAGTFIMN
 2476 IDSFI EIHKTSYSAYRVLQKTS
 2477 >NvitOR105
 2478 MIIRKTLEHQVLP IPIFHILTLWGIWCPEHVQPRLRRFYFAFTCIVIISEILLTTEVF INLIIIRNK
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 2481 ATISMHIGADTMLSG LMLQSCIQLKLLKHRFKHFFQH YEQVKGRLHLSSTKRKVEIALMK
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 2485 >NvitOR106
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 2489 AYLYQVFGYVSTSLVHVGCDCLVFN FVDRLCAHLKILEHRILQLPDLVEANACDEIRYLKS
 2490 CIEDHHSICEGIKELNDTFYETIFIQFVTSISVLCTNIYLLSMQDLFSAEFIAVFVYLCCA FVQ
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 2492 PESFVNILKVSYSAFN ILQQTK
 2493 >NvitOR107
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 2496 AATKQTSRKITLAHASVVGSCVVSTLLNSVLSSP PFLPVD AWYPCNITLPICFWTSFVHQSI

2497 GYTVTAIVHVANDNIVVGFM MQICAQLNV LNRRL LVHVEVEKAARQQKDQSQITSLETT
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2499 MLGQMFLYCWF GNEVVLNSSKLFHSIYNMDWIKLQSQQTQTKLLFMMLVASSPIQLFRGAI
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2501 >NvitOR110
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2504 VNGCVAKQWYPPRNELEATILTKHNNLSRRITLTYATLVGASLLAAVLNPILYSTRVLTAT
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2509 >NvitOR111
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2513 VAI AVAHVATDTLIVGFM IQICTQLNILNHRLLSIHIKLEDTARRQKNQE QISAVETLLVNECI
2514 SHYIDILKFADLLSKTFVEVFIQFCVGF SVICSIVYLLAILSILSFDFFGTLFYLGGMLSQMF
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2516 AFINVLKFSYSAFNILQKSS
2517 >NvitOR113
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2524 ISYSAFTVLQRTSHKEMKI
2525 >NvitOR114
2526 MLRTEELLANSRANERRNERV GIEDQVFPATFLLLKAAGVWTP TTLKLSQYMCYRIYSA
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2533 >NvitOR115
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 2548 TSYGAFNLLKQVADT
 2549 >NvitOR118
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 2565 >NvitOR122
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 2572 >NvitOR124
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2608 >NvitOR130
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2615 NFINFATILKTSASYITVFSSV
2616 >NvitOR132
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2624 >NvitOR133
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 2671 ANFASIIKTSTSYITVFASFT
 2672 >NvitOR141

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2675 GYITYNFAAVIVYTTMPLMPFLLDIILPLNESRPSMFILNGQFYVDKHEHYKKLYAFDCLCI
2676 FVIVPAALAVDTMYVACTEHCLGLFAIIKYRLAMSDKFISTRDIYLTEEKDSSYRWMIH TIR
2677 MHIDILKFANILDKSYSSSFVILMLINTVYVSVLCVVLVLISLDKPLNLIRYYMLLVAICHLFY
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2680 >NvitOR142
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2684 CIMS FVFSTVDSTYAVCVEQC VGLMAVVRRLKLATAKAARMKYKSDSDEHDIPYQLVS
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2688 >NvitOR143
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2695 MNLENFGSLVKTSISYIAVFASFT
2696 >NvitOR145
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2698 L NGIRVWCGKDLGICSENI AATIYLSGCFLKYL VVLLCKRDISKVYEKIAINWLTINDPNER
2699 VILDKFSSLGKLKSIGYTVYVSAAGIGFSQFALLPFAFDYFSPLQNGSRPKIRIVRAEFFVDPI
2700 EYYWHIYATY CIVTFVSAFTIISIDTSYAVVHQNLGIFNIVKYRLSLAKKAVGT SKDLAYE
2701 QIISAVRLHQDSLGFNNLIEV TYRVCFLLLILVCISFLTFGAITILENSDNWIDIVRLGSIEVGA
2702 VIHLFYLSWPGQLVVSESEELYTYNNEWYNLSAESK TLLHFMMLRCINPCCLTAAGLY
2703 VMNFENYGAIKSTVSYITVLSSFRE
2704 >NvitOR146
2705 MNGFETSSLNSKIINEVFDNTYFKINKILQELIGIWPYQKRFDALIKQFIVILILSMVAMPHIN
2706 GIRVWCGKDLGLCAENLAGVTYASGVCTKYFVVTRSKDQMTKVYEKITSNWL TITDPDE
2707 RVILNKFALLGKYKSIGYVGYITVAAICFSQLGLLPILIDVVLPLQNGTREKL RVVKAIEFGV
2708 DPYDYYWHIYGAYCAISVVS SGLVMAIDTSYAVVHQNL AIFNIVKYRLTQAKRAVNTVK
2709 DVAYEQIISAIRLHQDSLEFN NLIEHTYDVSFLILILICVTFLTFGAITIMEESDSYLD MFRLSL
2710 LECGVCIHLFYLSWPGQLV VTESEDLYTYNNEWYNLSEKSKTLLKFMMLRCMKPCCL
2711 TAAGLYVMNFENYGAIKSTVSYITVVASFRED
2712 >NvitOR147
2713 MTNEISQEKLNRVFD SHYFYL NKKLQIVSGLWPYQSRKRKFIHKL TMLCFLGTALVFLNG
2714 LRHWCGVDIDVCGENLVGLIYVISVLSKLFITSLYEEKFKI IYTRLAINWLELTD PQEHNILIS
2715 FARQAKIKTVVYFVYMAAAGVGFCQIPMIPVFLDFINPLNETR PKILFVKAEIFDPYKYFY
2716 QLYAFFIGCAASAVFIVCSIDTTFTAVVHQIIGVVSI IKYRLNCATVSFNP NKDVSYKLVHAI

2717 QLHKEVLQFSDLIEKSYNIFFLVLTGLTVVFLSTGAIVMLVRVGAMLDLIRLVVLIGAILHF
 2718 LFLTWPQGQNLIDHTSDLFAAIYATEWYNVSEERSKKLLSIIMLRSLKPCVFTAGGLYVMNLE
 2719 NFGSIMKTAVSYMAYVSSFR
 2720 >NvitOR149
 2721 MNKEEVDEAFNDSLLKINKELNIFNGLWPHRPDGDKLFRRRIIVLTVLISVTLPHVLGMFIQC
 2722 GRNMALCGENICGFCYCSGVIAKFIVPIVSKEKFITLYEKIALNWKEITDPYEQSILEEFSKL
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 2724 LYCTAAVSVSVLASTDSTYSVIIHQSLGIFGIVNHRLQKAAKHKNQESYRVMVSAIELH
 2725 KSALEFLELIESTYQSAFLIFVTVAFLSFGSLIIVEHSEEIIDLIRMTLIEFGAMIIHFFISWPG
 2726 QLVIDHSENFLSTYTTKWYNMSKKGKMLLLFMMMRCLKPSFLTAGGFYIMNFENYGS
 2727 VKTTLSYVTVALSFH
 2728 >NvitOR151
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 2735 IMESALTYVAIMSSFR
 2736 >NvitOR153
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 2743 NYGSIVKTTLSYVTVALSFH
 2744 >NvitOR154
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 2748 YGTFDTTYTQCVQHACGLFGIVEQRLRKATKLASSNAFSTQEEKDEKVYDKVIDAILLHK
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 2752 >NvitOR156
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 2759 LNIENFGSIMKSSMSYITVLASIR
 2760 >NvitOR157

2761 MDIFNSRFYRTNCFFLKLLGLWPLGDVSNRIKRVTVVSLVSLIIPMVIKLVQEWGNDIDI
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 2764 ILSVQIYGTFDATYTQLVQHSCALFAIVEYRLGQATKMVASDEDSSHKDTDKVAYNMMVG
 2765 AINYHKQAIQFVGLIEKCYSLLSFLIILNTAVVSLAAVVTMLHIEKGNQKQAIRIGMLYVAF
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 2768 >NvitOR158
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 2773 NEAIVLHQDSLEFALFIENTYASCFLPVGLYLTSIVIVAVDIVINLGDMNQIIRLSILYFAFSF
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 2776 >NvitOR159
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 2779 LCLSYMVAAYSALVVYSTMPAIAPAVLDIVIPLNESRKKTFPYAAYFIDDEAYYYQLMGH
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 2784 >NvitOR160
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 2788 KALVAGMISMTVFITYDMAFAMCVQHVCSLFDIINLRLQRASQLGSQGLSGLGRSARTSAS
 2789 YDSGVFRLIQKAIELHQIIVIENVSSLENAYNLNWWFILLNNTAVGGALLVLLKLGHPEDL
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 2792 >NvitOR161
 2793 MELFESNYWKLTVFLQKLIGLYYFQSLWKNIVAWIYVYTFTLSFIIAIGVRLYQEIGIDINIVT
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 2795 QLYSGYMIIGIAIFLSLPIAPLWDYIVPLENATRPNALPYAAYGVDQEKYYFPLMGQAVF
 2796 GGIGTGMLLVTFDLGFILTVQHVVAFALVCYRLDQAANLSLSVERGKIDFIKADRSAYEY
 2797 TVKAINLHQTVLGYVDLVENCYNAGWLVLVFMNMLLCGGGLAVLLMKTDRPEELLRYF
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 2799 KMFILCMDTYCNMMKTGLSVFTVLR
 2800 >NvitOR162
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2805 LEIRRLRRRAITLHKESIEFAENIEATYSLCFIIVMFVNLFSMVFTAACGIRTLHYDKVESFR
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 2827 LMTIYSVYVNFAGVGFATLPGTLPTILNIIAPLNESRPTKVLCFYAEYFIDQEEYYYQLLFQ
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 2829 DEEIHEYVLTAINIHNESIEFINLIQSTYTYFFIQMSLTIISLSLATVVAMMNLHDIINLIRIFFI
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 2832 >NvitOR168
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 2856 >NvitOR175
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 2872 >NvitOR179
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 2880 >NvitOR180
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2896 >NvitOR182
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2927 RTSWSMATVLLTTQKVNRPYSIS
2928 >NvitOR189
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2935 VNFTSIIKASWSMGTVLVSAHRKH
2936 >NvitOR190

2937 MPMEEPDSSIPYVKIQKFLMNCCGIWPYNSRLVNCLIYSFFVVSFTTMTPLSLGLNEEAN
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2952 >NvitOR192
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2965 VFYQEVVKVIKHKHAIEFVDLVESIYAMANLLVIGITLGSITLAEFETVQHKDNHEIAFR
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2968 >NvitOR194
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 3008 >NvitOR202
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 3024 >NvitOR204

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3136 >NvitOR232
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 3192 >NvitOR246
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 3196 EVFCGFYLWSVTSGVDSVFGLYALH MVGELRLLNVRFQMLKSSNNYAKDLKSCVD SHIM
 3197 LMESRHKLQRIFGFLAIWLAITCAIALCALVFQALQAKHATIIRIIYLCGHCFLKLLQAYFYA
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 3199 KVVHTSVSYFFLLRTLDES
 3200 >NvitOR247

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3203 NMHEAMVAFAMFMYCFVPLYVLFKHGTYLRTYPCLYPFSYTPGGLVHWLIYALEVAGAIS
3204 VWTITVGADCGFLMYALELCGEFKILARKFTELKAGDGYKRNLKECIERHHLIIEAKNRLE
3205 DSYGLIVIWLALSGAFLLC SLIFQITELYDNHGSYVRIAHLC SHLVAKNLQIFMYAWYGNLI
3206 ADESKAFLNAMYDSHWPEACDKNFKNDILIVLTQEPLVVVAKGCMYVQLDMFTKIVKTS
3207 MSYFFLIQTLAN
3208 >NvitOR248
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3211 LPMSLRFFYTYAITTGSSLALLVLIPLLLLRHGVYVRMLPLTL PFSYKPGGMVHWMFYLYE
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3216 >NvitOR249
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3219 SRFFYLYAYVVGISFVFLASTPLSIMLRYGKYVRMYPQLMPFAYEPGGSVHWAVFGFEMFT
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3223 HTSLSYFFLLRTL DENPKAGT
3224 >NvitOR250
3225 MELELAKYKSYARHVIFRLIFAGLWPESNPKIKRMLS FVTFTSTLTVMTAINFGIHNASNV
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3227 AFVNMHEAMMAFAMSMYCFVPLYVLFKHGTYMRTYPCLYPFSYTPGGLAHWLIYALEV
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3232 >NvitOR251
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3248 >NvitOR253
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3255 KTAMSYFFLLQTISSEE
3256 >NvitOR255
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3263 YFFLLQTLDEGSRHL
3264 >NvitOR256
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3269 LQDVFGFLTILLALTSIVQCMLVFQAIQVFKNLSLGMMVFLIAYITLKVVQAFIYAWYGQ
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3272 >NvitOR257
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3280 >NvitOR258
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3285 EVLQDVFGFLAIMVAVTSAVIQCMLIFQAIQVFQQLSFGMMILIFAFITLKHVQAFIYAWYG
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3287 LNTSVSYFFLLQTLDEGLQS
3288 >NvitOR260

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3293 MEKTFGLLAIWLAVSSAVIQCTLVFQAMEVAKSMNPLRIGFFFLYIVLKLLQAFMYAWYG
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3295 VSYFFLLRTLDEGSQN
3296 >NvitOR261
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3300 VVFVWNVVCSVDNAFGLHSFRMCGLLRSLADRFAKLQPD DPGYIVELRDCVRTHQLVLR
3301 AKEALQRVYGLVVLW TYVTS AIIMCSILYQADQAKK HMTVTRVIFFTSYITL KLLQSFTYA
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3303 VNTTISYFFLLQAVEEK
3304 >NvitOR262
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3312 >NvitOR263
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3319 TAVSYFFLLQTLNEKNE
3320 >NvitOR264
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3328 >NvitOR265
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3416 >NvitOR278
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3440 >NvitOR281
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3442 DALHNHTILPIQIISQVITNLQSISKGFLVVVKINKIQRILEQIGVLWKSYPDESNRATLYSIL
3443 QRTLSICKTYCAVLFTLLIYYLQPIANFLVQYRERNGLNHTYDYTKTLLIHKVPFQVTLKR
3444 YFFIISHEAVLLYTSALYWGVSDTFFACFTTQICYHFKILKYTKVFFDVKNNN SRLNLVTL
3445 IKRHQDLLRLCELTEDVFSPIIFSTMLSSAMNLCVNVIGVRETISNGSYRQTGMHLFLFVITF
3446 IQILFYCTFAEAMTEEACTLADLAYNLEWTSKDYKLRCYIQVILRAQKPIYCTAYGFFPIGI
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3448 >NvitOR283
3449 MQIKVVENLTTLTKHDIKYFFKENLKLLSKIGFKCSLTKKSEKFKFHHKIPTYIANFCGLIVFA
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3451 PGRELILDRAKYTISLCKFFVMAIVCYFLFVMQFLIKFSIQYLNREATNHTYDFSNTVDLI
3452 KYPFEIPNLPVYFLLISVEINYLFVCIVFWCNTDSLFTLTSHVYVQFKALKLDTTLAFNNS
3453 MLKERSILIDMVNRHRELLRMCYLIEDTYSPIIFSTLLSALNMCVTVYAVREYIDKGYYLE
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3460 RVFIIIEYPFIQDVLTYSSVLEEEYLLLASGLYWVCCDTLFAQLTTHISLQLEILQYDIETLI
3461 NRESAEDRLNENFIIIVKRHRKLLSICELIESVFSPVILTTVVLSGMNICMNVFELSKTISEGN
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3480 >NvitOR289
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3496 >NvitOR292
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3511 >NvitOR294
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3549 >NvitOR300
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3557 >NvitOR301
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Legends of Supplemental Figures

Figure S1. Cluster of orthologous groups (COG) function classification of *A. gifuensis* antenna transcripts. In total, 11086 of the 29302 unigenes with nonredundant database hits were grouped into 25 COG classifications.

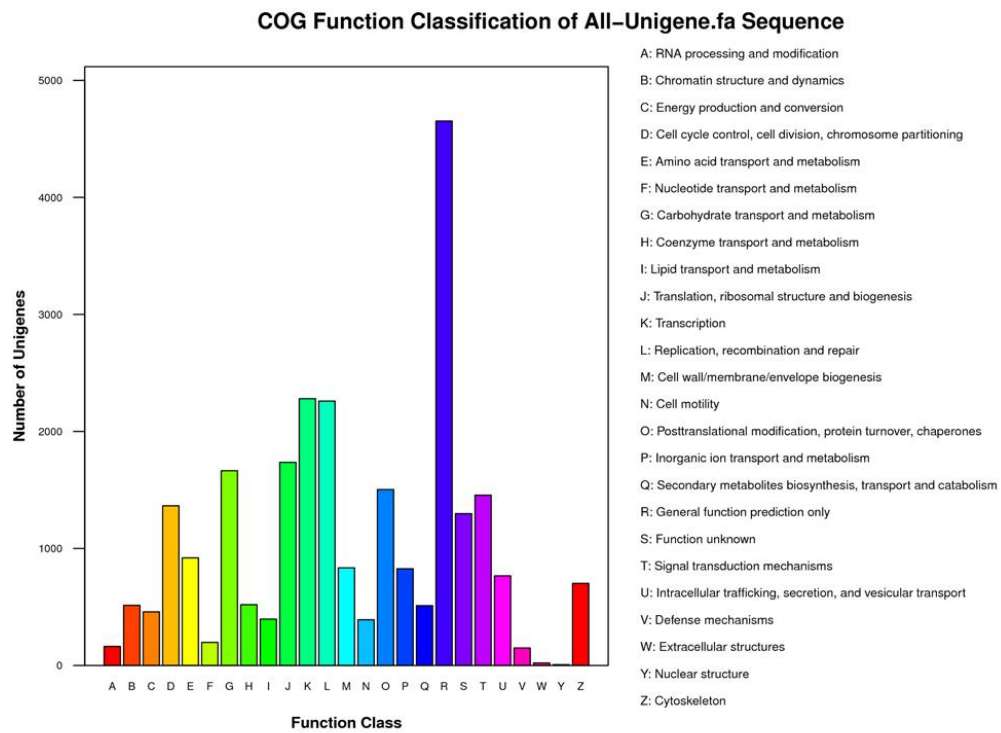
Figure S2. Heat-map of relative expression values for AgifORs. Estimation of abundance values determined by read mapping.

Figure S3. Heat-map of relative expression values for AgifGRs. Estimation of abundance values determined by read mapping.

Figure S4. Heat-map of relative expression values for AgifIRs. Estimation of abundance values determined by read mapping.

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5855 **Figure S1**



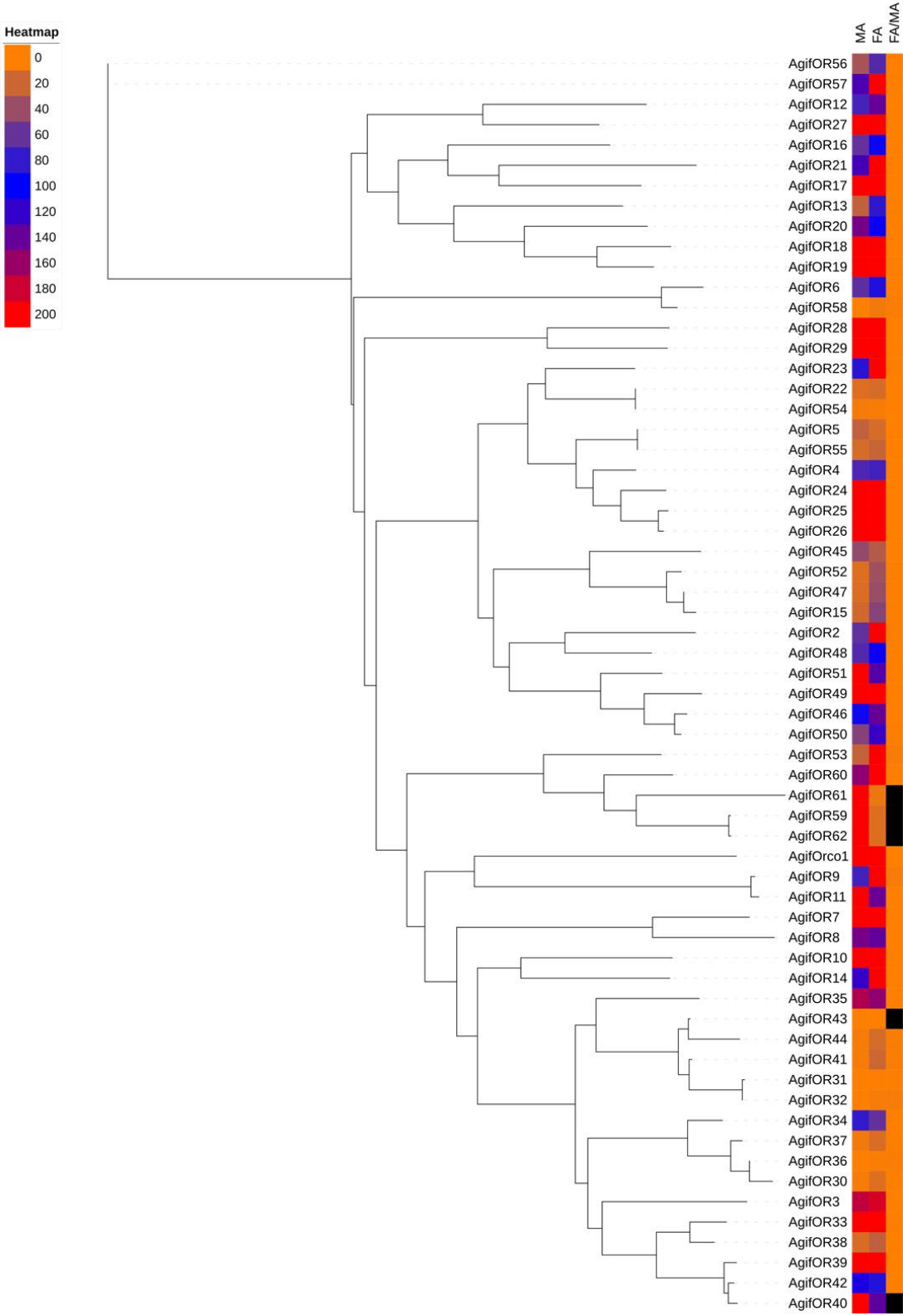
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5860 **Figure S2**



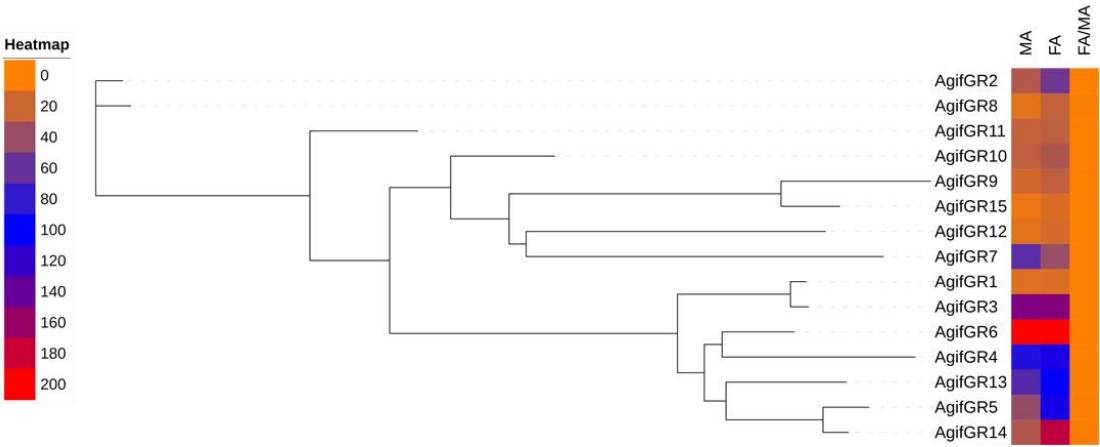
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5865 **Figure S3**

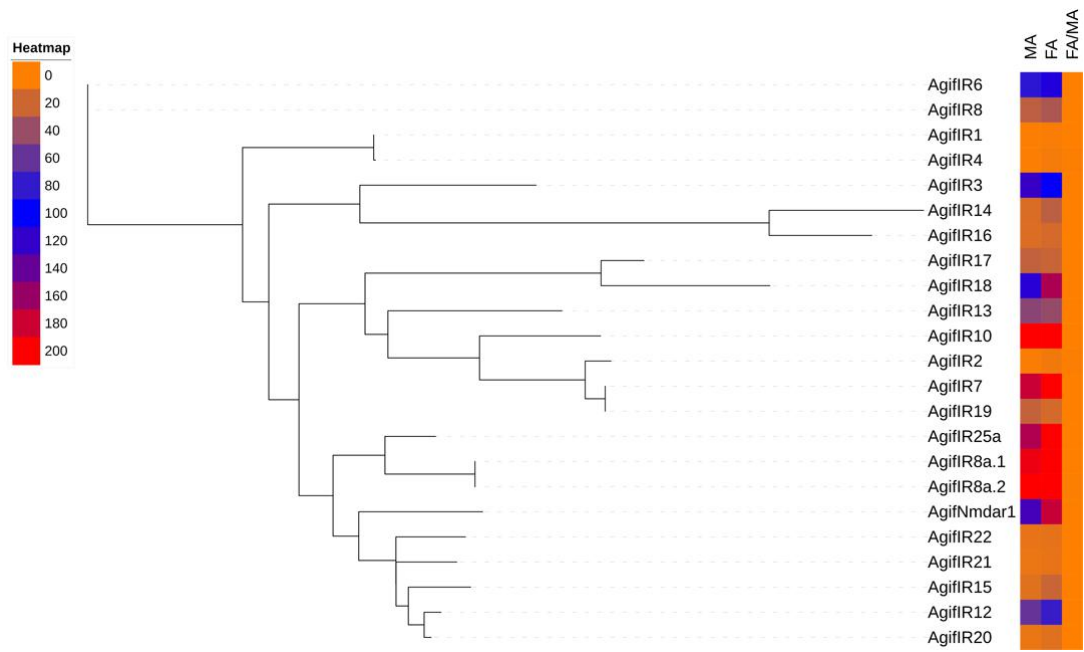


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5869 **Figure S4**



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