

Amphimedon Queenslandica GPCRs

Glutamate like GPCRs

>PAC:15699247 pep:novel scaffold:Aqu1:Contig2107:184:1032:1
gene:Aqu1.200719 transcript:PAC:15699247 description:""
IRIWFLSLGYNLCFGVILSKTWRVYYIFNNPKPNKKGVDWVLLVIIILIVVAIDLAILV
GFIIPMSRLKSSEEDTIHPQININDEGKLQDHYILICNQSATVIWLALSFGYKGLLQVSA
IFMAFHTRRVKVKILNESKEIAAIIYINSIVLVLLAASEFTLATHHNAYAAALFGLGLLTE
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>PAC:15700473 pep:novel scaffold:Aqu1:Contig4813:448:1516:-1
gene:Aqu1.201945 transcript:PAC:15700473 description:""
MHSFSLRVTKLSNVKINVLLFGCTVLYSTGPLYTNFSFGFNETLQQSVLCNFRVWVFSI
GYMLSFTVIMAKAWRSVTVHPITASSNSQNVKDWMLYLIILILSVIDVFIIFVEAVNPQT
RINAKILYDGOIITENSTVVKEYFECTRNIIVATSLSYRSFLQLMCIFFVYHTRRVEV
SALNEAKQTSVIIYTNISIFMVLSGVIQFTLDHEINSVLIPVLLILOPTLFLAMIFIPLLL
LIYIGDRYFAKSENEGHSNNISSNDEENTQMNKKETTAKLQARIKELENEVTEMSMTMR

>PAC:15703535 pep:novel scaffold:Aqu1:Contig9669:19:3751:-1
gene:Aqu1.205007 transcript:PAC:15703535 description:""
MFAYIFGHYLSLTLQISYSVTSVLLDNNRRYPYFHTTIPNDEYYSVVLKLLDHFWDQKVA
IISTFDKQSAVLVLSIFRALAHHNEQAHIFEPVKDLVSAELVLKSAKLVLSDFFVKSKSY
FVIKSKRIFTKSRNLFEVGLCINNYFYSLYLLKDGKECIIGYYDSTNSTHHLQECETEYC
CNVTWKDGEITRSSPIFNAIITFGCTLGYSISCLLFLGNYIIGLTGKGKLGPICNVAMSSI
SLSFLILFSTILIKNWRIFQIFHNPSQQDRKYLSTVLYIWMVIIICAPVIIILILHLFK
PLKVYQVSFPDHNCPGYPDNIESSLIEDHCIEASSFGWGAAIPVYFVILLIMIIYLGSWN
CRITRHYKSEGELAILTATVSIMIIYIFNYGISLIATYGYTEAGMIKIFILRYSIGTLFVYF
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LEQ

>PAC:15708328 pep:novel scaffold:Aqu1:Contig12544:3941:5081:1
gene:Aqu1.209800 transcript:PAC:15708328 description:""
IIKLTSYKLNIVILGSGLLYTSVFFYSLSLQNPTIQTIFCNGVRDWHLLLIIFSIVAI
DVIIILVGSTLPQSRLTSFQAVDGEHPQVVNEEGKVQRNYVYVCNKQIGTIIWLGVSFGYK
GILQVLAIFMAFHTRRVKVKLLNESMETATIIYINSIIIVSLIVTEFTLPTHNNIYSALF
GLGLLIEATLFLVGLIFIPKMIRLYFDPQGDNIQNTTVAPATLTNNILDEKESSEVVLN
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>PAC:15713370 pep:known
scaffold:Aqu1:Contig13185:55705:62564:1 gene:Aqu1.214842
transcript:PAC:15713370 description:""
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TAPSDLLMNRPRFALMATYDWCVATLHQTANLFLAVQDFHESFKSTLGTGPTGTCSGR
ADNDNPVLFSTGDPQIPLMQIKSKKIRIIYGFFYEDKAVLVMCYARKLGLTTNNHLWIL
PGWFSESWMDSANTLDWSPYNCSCNSDEIMEAAKYSLLVDAFSQLTDATLVSDSGYCQYC
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QSMGRNLSEFEYSDSTFTFLRDTFSSNISKMTENMKNLDFIGVSGRVTFDGNTRLTYT
QISQYVPGTRMINGTERDVLNTVRLAIYNETETGLDITYVVEPKWRLGRPPTDRSRPVS
LISPAVIYTMDTVLAIGIIIAVLLVFQIVTIRKPLMANSAPYINIIILIGCIVMMGSSI
LLGIDSGTPQVTDGDRDKILDEIGPSAKNRYAIIICMTRVWLLTIGFTLSFGSLFAKTWQV
YRVYTKADLGKQPFKMWNFFIIMAIQLTIDAIFLSIWIGVFRFSHRIYEEDNEAENAIK
HEYCYCDNFSYLVGSLYVYKGLLVFGLFLAYESRNVKYTFINDSRFVSIAMYIVVVLIA
ISAPLSLVLADQHFIIIDPSYAIIVLLIFITCMSCLMILYIPKFYYLAKGADTMVPSSKNE

AFLPVDNLQLGHTDVNPEDVQSAEQKIKQLKEQVKQREIELLSLARRASDQDSGVLCAS
EDTGADGSNRGSESPATMQTLQDTVTTVSSENGGDTINNNDVEEEENEGEREGERHEKL
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>PAC:15713374 pep:known
scaffold:Aqu1:Contig13185:68034:70195:1 gene:Aqu1.214846
transcript:PAC:15713374 description:""
MATLTSRPLINLSGEFTYKPPLPGNYSTKRMQPSGCYNINAIEIRETDTEILMANSAPYI
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HGIDTVKDNNNINYSKFCECNGFIYILIGTLCAYKGLLLVFGLFLAYESRNVKYTFIND
SRFVSIAMYIVVVLIAISAPLSLVLANQHFIDHAYVAVLMITIASLSCLLVLYVPKFFY
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>PAC:15713708 pep:novel scaffold:Aqu1:Contig13204:34:819:1
gene:Aqu1.215180 transcript:PAC:15713708 description:""
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NSPHTAMIAILMVYYSILLIASNALAILTIRFPQNFNESKYVAFSTFSLGLMWIAFIFTY
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>PAC:15715827 pep:novel
scaffold:Aqu1:Contig13301:102911:114579:1 gene:Aqu1.217299
transcript:PAC:15715827 description:""
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GLSHISFASSSVHLRDRDRFKNYFQIYASENNYIPGIIASIMTFYGWSRVVITEKVTLEF
ETEETLFELLTTKSVNATRIFDESDDNPADIPNLFPENEFIFLNMWEPKARQVICEAYK
RGYTDRTKYGWILYGWYSNAWWNLRSKNTTVTCTNEQLYSVLNGALAVQQYPINTNVTKT
AIGNLVDAGIESGLIPAESMRQKSYSEFYELYDARLADNVSYPSHAYLESTYVAHMSYDA
TWTALALDRTARRIAGQDPVPECSGTLTPLDQWDNTISTTSLIRYELGRTSFEGLTV
KTIYGKSAKTAEIVPSKLSEYTGNVSFDDDGIRHNSPTRIYQIRNNEQQLVARWFEDNFV
YLNNESTETVFPDGVPSDGTPIRIVSTFHLISLVIFYTISFAGLVFCIICLVFTFYFRNK
KLIKLI SPNLNYFIIAGTSMVFLSIFLRIFPFDTSDEERFKKTRLLLCYISLYLDFIGYT
IAFGTILSKMWRIYYIFHNPSPNKKILTDLWHLIGLILLITAGMAAILIIGSVIPQTRLKL
SLESRENSNKFDERGVPLDYVYHCF TTASFVWLIFLYIYLGMLQIIALILAIQTRKVR
IKILNDSKEVATIIYITSIVLVELMYRLYKDPKGESCETSQTMSSIEFGRSGALTVVSDK
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>PAC:15715835 pep:novel scaffold:Aqu1:Contig13302:5423:12089:-
1 gene:Aqu1.217307 transcript:PAC:15715835 description:""
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WGLSQVSYSSSVHLRDRNRFKNYFQIYVSESNIYIPGIIAIMTHYEWRSRVVITEKVTLEF
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IYQIRNNEQLLVASWFQDEFIYLNNQNTETVFPDGVPSDGTPIRIISTFHASLVIFYTI
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FKSTRLVFCYISLYLDFIGYTIAFGTILSKMWRIYYIFHNPSPNKKERGVPLDYVYHCF
TTASYVWLIFLYIYLGMLQIIAILAMQTRKVRILNDSKEVATIIYITSIVLVELVIV
SFALSSFYNTHEVLYDIGLLIVAFAILLVIFAPKMYRLYKDPEGEKCDTTQITSTVEFGK
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ETNN

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scaffold:Aqu1:Contig13303:122284:125316:1 gene:Aqu1.217350
transcript:PAC:15715878 description:""
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QAQVMVDIVVNYNWSYVIAIGTDDTYGQEGIKAFTEELGNSVSSTNKTFVATTIKLQVT
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QCNPEKERSTLISRYKQNSKVPFVIDAVYAFahalQNLMLNVCGEIKLCDRIISYRDHGV
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GTLNLTDIEWATDKVPVSICTDCTSGQFPQRVEGQASACWICVECPRKNEVSTGKKCT
VCPKGFSPNPKDNDVNLVYLRWGHFFSIIILLTLGGLIVTSITGIVFIVNHNHSTV
KASSRELSTVLLIGLILCYLLPFFSIGEPIAVTCGIRRFGFGFSFLCYAALLVKVNRIH
RIFNRQRTSGQRPLISPHSQLLFTGLLVLIQVILSASWLIVQIPGRKFVYYENTTEVTC
KATAYFGFVISLGYNLLLLIISTYYAFRTRKIPQNFNEARFINLTLYSIIIIWLAFVPAT
VGISQLGTVYETGAQVFAIVLSATATLCCIFFSKLYFMFSSKRKEGNEYQAGNDRRFST
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KKK

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scaffold:Aqu1:Contig13322:137731:141318:1 gene:Aqu1.217943
transcript:PAC:15716471 description:""
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AYAAGANVLNDKTRFKYFFRTLVSFRYVSQSLGQLMREFGWRQMSVITQDEPLFSRVTDE
LASIIFKDEGWILDYDVP SGHNPLPFFDRSETQRFRIIHINSYPDIAYPVLCESTGEYL
SNYTDLLTNEPMYENLTALAI SGVAFDGVWTIAIALDIASKKILSRNESGCENVPGDIVP
LEQFNYTNMKGCLRQSFSEVNFLGVTGQIKFNRYGSRNDNVILYQQYRVINGEVGRYF
IGYVTFETPWKEGFEFATGESMGTLWSDGVLPYDGFPIRVWLFSLGYNLCEFGVILSKTW
RVYYIFNPNPKPKKKGVKDWVLLFIILLIIAIDIIIIILVGSTVPQSRLTSFEVVDSGNPQE
INEDEKFQNNFILVCNTRVGTLIWLGISFGYKGILQVLAIFMAFHTRHVKIKILNESKET
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>PAC:15716472 pep:novel
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transcript:PAC:15716472 description:""
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RIKFRNFYRTSVPFHDVGESLQQLMREFGWRQMSIITQDESLFSLVTENISNIFNNEGWT
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STNPSCDAIMMEVITGTIGWIPRKYLTNLNESITTFSGLTPNAYLGNYTALLQESRYRNI
TKFGFSGVVDGVWAIAGLDIASKKISSGNDSGCENVPGDLVPLEQFNYANTKLGCIFK
KSFNEIDFVGVTGQVKFNEFGSRNDEFIQYQQYRLSNSRLTKVHFGSVYVEGQRSSFVFS
SGESNSTLWKDGIPPYDGIPERGLDQNSIALIVIIDILAGFGIIFAAVCFIFNVVFRNKK
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VSFIIAIDVFIILIGTIVPQSRLTSFEVVDGENPQIINDDGKLQNNFVVVCNTRTETLIW
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>PAC:15716474 pep:known
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transcript:PAC:15716474 description:""
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IITQDESLFTGHVASNICDCFDLSEAQRFRIIHINTYPDIAAYQLLCEVFLKAYYRGMTSP
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 GLTPQMYFSTYTALLKDPKYENLTELGSLGVAFDGVWAIAGLDIASKKISSGSDSGCEN
 VPGDIVPLEQFNNTNTKLGCILRQSFSEINFLGITGQIQFNENGSRNENIVFCQQYRTT
 DSSMARVTFGDVTIKPKGSIFVLKKEESNSTLWQRHGSLOPPYDGFPESENIHQNNMVLII
 VYDIAAVCGLVFVVICFIFNIAFRSKKVVKMTSPNLNYIIILGSAMLYTCIFFYSHSST
 KSMQSIFCNIREWMVSLGYSLCFGVILSKTWRVYIIFNNPKPNKKGIKDWVFLIVFVV
 AIDFVILVLSAIPQSKLASFKEVDHEHLQQANEKNRIQYNFILTCSQKTGTVVWLAFF
 GYKTMQLLLAIFMAFHTRRVKVRILNESKEIAAIIYINSTILVLLTVTEFTLANHHNTFA
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>PAC:15716750 pep:known scaffold:Aqu1:Contig13334:8139:11806:-
 1 gene:Aqu1.218222 transcript:PAC:15716750 description:""
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 CGIGFTVVCLIFNIFFRKNKLIRLSSPKLNYFIIAGAIIMYMSVIVYTLTLPSESELGNTVL
 CNLKPRFLSLGYSLCFGTILAKMWRVYIIFTNPNMKKKSGIKDWHLSLFLVVMIIIDLLL
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 VAALFLAFGTRRVKVKGLNESKFVAIIYITSVLAIKIIAAITLNEYVNVFSFLFATCI
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>PAC:15717728 pep:known
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 DETIDIVLSSGDLELESCAVVNTSTSEQVPVSVIIGAFESFITTPMAGLLRFLFKSQISY
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 PWFPPYEQYHKCKIDGIPVCDNTSVTNTSEYKQFSVVPLVMDAVYAAAAHAIDNF IQDNC
 DQPVQWYPGNQSCRQYNQSLNGDVLFRYISKVNFTSPSNMNVNFDLSLGNIAVAKYSIFNY
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 RIQTENNNERHFVWIASDTWAELTDEEFNNVTAGKFGFAAFSENLDSDNYFSQLLPSTN
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ALCFLVTVAFLLPSPPIICGCQRVGLWFCFSLVLSALLVKLIRISRIGFHKSMSNRPKCI
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ILQMLYISALLIASNVLAFLTIRFPANFNESRYVSFSTFSLGIMWFLFLLSYIATDDSTI
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>PAC:15720535 pep:novel
scaffold:Aqu1:Contig13434:222716:228112:1 gene:Aqu1.222007
transcript:PAC:15720535 description:""
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QIEFASSSSSSLCHQTVCKSFFQSVGSFQFIASSLVSLAVEMEWRFQFAVLTEDNVYFTVIT
QQLNELFTNNEINIDSSILLTNNNNNNYRNFFNWTNGAVQRLIFINTYSPRAYQILCESY
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YYPLLNESYNQTIISGLSPALFHSAIANISQQGYTHQPVTSLSGSAYDTLWLLALGLNEAA
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VVVGIPYDGYPTERIVVLAPALRILFSVLTFFGIIFAGGCLFINTCCRKEKVTKLSNVKI
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VTVHPITASSTSQNVDWMLYLIILILSIIDVFIIFVEAVNPQTRINAKILYDGOIITEN
STVVKEYYFECTRNIIVATSLSYRSFLQLMCIFFVYHTRRVEVSALNEAKQTSVYIYT
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>PAC:15721151 pep:known
scaffold:Aqu1:Contig13446:222124:224847:1 gene:Aqu1.222623
transcript:PAC:15721151 description:""
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FLIKPSPTVCGLQRISLWFSSSLILSALLVKLIRITRIFMQRKVTTTRPMFIAPAYQILFT
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LLITSNVLAFTIRFPANFNESKYVSFATFSLTFLWLVFIPSYIITANTATQGYVMSFMI
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scaffold:Aqu1:Contig13446:249055:251713:-1 gene:Aqu1.222628
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IREYNSAFVTVFTLLASAGVMFAGVCLAFTIIFRKKKIVKLSSPNLNYLLILGSVILYSH
MYLIVYYFTGYDEIAKQSILCNLSVWSLSFGYSLCFSVILAKSGRVYIFANPSSKKKSI
KDWMLFIIIVALLTGIDVLLLIETSTRSTRVTKIVPDTQQFEVAALVSDKDGTLNYYF
FLCDHSRIFLAVKNGYRVLLQLVGIFFAFHTRKIKIKGLKESTQIGYIIYFNTLFLIILV
LSDYVINLNTDKSSSDTVARMRARVKELEEKVDKLRMNVRKFSLPATTESFGIEEEKEHY
L

Rhodopsin like GPCRs

>PAC:15699092 pep:novel scaffold:Aqu1:Contig1667:21:747:-1
gene:Aqu1.200564 transcript:PAC:15699092 description:""
MDDINNNFTLSEDVNGPLLA AVIGMEMLAGLITNSFVLILTACHLKNWKQPTTVFLSNML
ANNLVVILFTMPLSIIITTASGEWIFGSTVSQKESACYFAACIFIFSILTATESLVLLSFD
RFFFIVKALQYKKYMTVNRAFIIVAVSWLLAAFLSMLPFFGFGAFEFAFSYGMCVPGWRG
QAGYAIFSFIVISIFIGSITVTSIWTMCFTRKYLKNAATNISTAASPGNPYAAQERRVIG
LF

>PAC:15699550 pep:novel scaffold:Aqu1:Contig2858:61:666:1
gene:Aqu1.201022 transcript:PAC:15699550 description:""
MEDMDENFTLSGDINGPLLA AVISIEMIGGLIANSFVLILTICHIKTWKQPSTIFLTNML
ISNILIVLFVMPFAITTAASDEWLF GKTYKQKMKVCQFTAFMFWFCKIVITEGLVLLSFD
RFFYIVKSFYEYERHMNQKISIIIVTLSWLLAALLTIPPLFGLGRFSFSSSNGICVPHWEG
ESGYVYMLIVFIIIFIISLHN

>PAC:15700596 pep:novel scaffold:Aqu1:Contig5099:435:1619:-1
gene:Aqu1.202068 transcript:PAC:15700596 description:""
MILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAHVLTLYLPLFSIAALAAGEWIIGD
TDEEKATCDFNGFIILCCAYIIFMTLSLISTDRFLFIVKPHIHKRFMSPRVALVLVIV
WIVNAAFYSSGFIDGSGVVYQYVWTFCTRFKFINNQSMIVGESVYASKKKRLFGIFGSM
LLVYGICFIPGIFFGTLLAIDFPVVLGITALLIFFFLAVVLSPPVQAYFRPEINSVIMLK
RKPNPTTSSSYISPSAALDEHCFHNSTLGIIVITVDHSYLSGLSPL

>PAC:15700739 pep:novel scaffold:Aqu1:Contig5403:607:1542:1
gene:Aqu1.202211 transcript:PAC:15700739 description:""
MDYNFTATGSINGPVLAAVFAVEAVVGFIANIIVLSITLYQRKSFKQPSTIFFTSLILSD
LLDVLVYLPMTTVSTGAEEWIFGSTFEQRRATCVFSGIIFWFILYVTTGVLA AISFDKCL
FITKPYFYKRFMKPWVALTITVALWIIIGLMTLPLISFEDYIIYGIYFGPCYVGFLGKI
IYSIMFGLWLIFIVTIIIVTSVWTFCTRRFINNQSAIGGENAYNSRKMKLFGIFGSMLLA
YTLCYAPAVIIGFISFGFALPYEVFATTTVALHFAPIVSPIIQAYFRPEITKSLVSFKNA
LCEKLRCSHSN

>PAC:15701137 pep:novel scaffold:Aqu1:Contig6166:26:808:1
gene:Aqu1.202609 transcript:PAC:15701137 description:""
LAAEEWIFGSTDEEKRGTCTYGFAGFIFWWIVLVISLTLD AISLDRFLFIVKPHLHKRFMRP
WVALTLTIAIWILSAVLSIVHLFGFRLFIDICISSTANIGFVVYIILLSAIVLGIIFITS
LWTFCTTRRFKQSVIAGESVYASKKKRLFGIFGSMLLIYGICFVPGVLYFLLYLFDV
PLWLNIAATICFHFITVTNPIMQSYFRPEIKSIYIVLY

>PAC:15701199 pep:novel scaffold:Aqu1:Contig6273:29:625:1
gene:Aqu1.202671 transcript:PAC:15701199 description:""
MVLVISITLATISFDRFLFIVKPHLHKWVMPWVALTLTIAIWILSAVLSIVHLFGFHLY
IDICISSTADIGFVVYIILLSAVVLGIIFITSLWTFCTTRRFKQSVIAGESVYASKKK
RLFGIFGSMLLVYGICFVPAVLYFLLHLFDVPLWLNIAATICFLFITVANPVMQSYFRP
EIKSVLFRCCPLKIYVCC

>PAC:15702185 pep:novel scaffold:Aqu1:Contig7896:57:1878:-1
gene:Aqu1.203657 transcript:PAC:15702185 description:""
MERNYTFGTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LALTLYLPFSIAALAAREWVGDTDEEKQGTGCTAFVILFGIYVMLMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIVWSFDLLFFSTGFDGSGVEFRYIDYLGVCYAFTTSPV
MAIFRFFFASLIFIIIIITSVWTFCTRFKFINNQSMIVGESVYASKKKRLFGIFGLMMLV
YGICVSPGIFFSTLLAIVDSPGVFTMTALMLFFLAVVLSPIQAYFRPEINSVIVNIVCR
NMLKKKPNPAATSIVVLSPPVQAYFRPEINSVIVNIAYHNILKKKPN SATTSSSSAAVD
LRVSSCT

>PAC:15702669 pep:novel scaffold:Aqu1:Contig8595:983:2091:1
gene:Aqu1.204141 transcript:PAC:15702669 description:""
MEGNFTFTGEFSGPAVAALTVEMILALIANGVVL SITLFYQRKSWKQSSTIFFTSLILA
HLVLNLLHLPFTITALAAGEWIFGNTDEEKSGFCLFIAYTVWYIIFVISITLAAISFDRF
LFIVKPHLHKRFMRPWVALTLTIAIWILSAVLTGPFIDNGRYSYDGELGFCTLIGFDIA
SLSLILPTIFLVVGTIIIVTSFWTFCTTRRFKAQSVIAGESVYASKKKRLIGIFGSILLI
YGTPVLLSSHTSGLRSKIGLVLLVPL

>PAC:15702875 pep:novel scaffold:Aqu1:Contig8875:1923:2651:-1
gene:Aqu1.204347 transcript:PAC:15702875 description:""
MDFHTDGNDFPDDFNGPLIAAALTVEFIGALVANGIVLIATLIQYKSFVPSTMLFTSL
IIIHLLIISVLFVLLWIIISAASEEWIYGTTIEQKIACTFHGCVLNYGIWIFGTITAI SV
DRCIFIVKPNFYKKFMKPKVTLTLIALIWVVALILD TASLYGFGEVAYGEYACVPRFEG
EIIYVITITLVIMKICIIIVTSIWTYCFTRKFIQEHSQ LADDVYVSRNRR LIGIFCAML
IG

>PAC:15703005 pep:novel scaffold:Aqu1:Contig9021:79:1038:1
gene:Aqu1.204477 transcript:PAC:15703005 description:""
MDIMSFNSTDFVLTGDINSPTYAAVLGIEGVIGIIVNVAVLLMTLYQRKSWNQSSSTIFFT
SLLLSNLIIALWYLISSIAVGAEWIFGNTFEEKNATCMLVAYIIWYGIMDISATLAAIS
FDRFLFIVKPYLHKRFMRPRVALILITGVWLLCSLINTIPFYSTGGYRYFPHSGICSFNLN
RTSAYFVVLIVVYAIISIIAFTSIWTFLETRSFIRKQGRSVDRGVYQSKNKRLFGLFGS
MLLFYIIALLPSCIIIFSFFDLDPGLYAFSICTYGLVAIINPLIQSYFRPEVKATLVLI
ASKIGLKSNIKIGTSQATAG

>PAC:15704497 pep:novel scaffold:Aqu1:Contig10507:5186:5849:1
gene:Aqu1.205969 transcript:PAC:15704497 description:""
MILALIANGMVLSTITLYQRKSWKQPSTIFFTSLILAHVLNLLYLPFTIIALAAGEWIFG
STDEEKRGTCTFATFVFSYTIPVIFNTLAAISFDPFLFIVKPHLHKQFMRSWIALTLTID
IWMFSALLNSTPFFGLNDEQFLCYQHPNSIINLIIFCFLSMCYKSFFKQSVIAAESVY
ASKKKRLFVGFSGMLLIYGICVVP

>PAC:15704762 pep:novel scaffold:Aqu1:Contig10729:4864:5633:-1
gene:Aqu1.206234 transcript:PAC:15704762 description:""
MSIPKEFLEAIINNILHFSHTGTLTLLYLPFNIIALAAGEWIFGSTDEEKRGFCSFTAYT
LWYSIPVIVITLAAISFDRFLFIVKPHLHKRFMRPWVALTLTIAIWILSAVTTFTPFIEG
SGAVFMYEGSHGTCTVVILELQFAIVSFVGSLLVVGIIIVTSVWTFCFARKFIHNQSEIS
GDNVYASKKKRLFGLFGAMLIVYGLCFTPGIINYAV

>PAC:15704842 pep:novel scaffold:Aqu1:Contig10790:381:1325:-1
gene:Aqu1.206314 transcript:PAC:15704842 description:""
MEGNFSYVGDFNAPAVAAVLTVMILALIANGVVLSTITLYQRKSWKQSSSTIFFTSLILAH
LVLNLLYLPFTIIALAAGEWIFGSTDEEKRGFCSFNAYTLSYSGFVISMTLAAVSFDLFL
FIVKPHLHKRFMRPRWVALTLVIAIWILSAVLGAGPFLDIGHYSYDDKSGFCSLIGDFDA
AFVVILVILSLVVGITFVTSWTFCTRSFFKAQSVIAGESVYASKKKRLIGIFGSMLLI
YGTCSLFVASGYLLQFFIFPPYEIYVTGYIVSYFVTVASPIIQSYFRPEIKSVLVSCCPL
LFTCVCCSFVHAVC

>PAC:15704843 pep:novel scaffold:Aqu1:Contig10790:4493:5437:-1
gene:Aqu1.206315 transcript:PAC:15704843 description:""
MEGNFTFTGDFNTPAVAAVFTVMILALIANGVVLSTITLYQRKSWKQSSSTIFFTSLILAH
LVLNLLCLPFTIIALAAGEWIFGSTDEEKRWTCIFSAFILWFGAYVITITLAAISFDRFL
FIVKPHLHKRFMRPWVALTLTIAIWILSVSVFVGSLLQFIGIGHYSYDDELGYCTLIDVDVA
SFVVILVILFLVVVTIFITSLWTFCTRSFFKQSVIAGESVYASKKKRLFGLFGSMLLI
YGTSYFLALGFIQLIFLPYELYITYIVFCFVTIASPIIQSYFRPEIKSVLVSRCP
LFTCVCCSCVHAVC

>PAC:15705622 pep:novel scaffold:Aqu1:Contig11404:790:1518:1
gene:Aqu1.207094 transcript:PAC:15705622 description:""
MEGNFTFTGDFNTLAVAAVLTVMILALIANGVVLSTITLYQRKSWKQSSSTIFFTSLILAH
LVLNLLYLPFAIIALAAGEWIFGSTDEEKIGTCTSAAFVYSFTIPVIFMTLAAISFDRFL
FIVKPHLHKRFMRPWVALALTIVIWILSAVFSSAPLYGINEYVYEDQFLCYQRPNGTMS
LIIIFVFLPCVTAVIIIVTSLWTFCFARSFFKQSVVAGESVYEALGSTDPHHCYVAVCS
CI

>PAC:15706124 pep:novel scaffold:Aqu1:Contig11695:9419:10501:1
gene:Aqu1.207596 transcript:PAC:15706124 description:""
MSISSENNFTINDDVNGPVLAASFATEMILALIANGAVLLITITQRNSWKQSSSTIFFTSL
ILAHLPNLLYLPFTIISLAAGEWIFGSTDEEKRGFCSFIAYTLWYSIPVITITLAAISF
DRFLFIVKPHLHKRFMRPWVALTLTIAIWILSAVTTFTPFIEGSGAVFMYEGSHGTCTVV
ILELHFAIFSFGSLLVVGIIIVTSVWTFCTRKF IHNQSEIAGDHVYASKKKRLFGLFG
AMLIVYGLCFTPGIINYVVVRAIVVADEIYLAVVISFIFVTVLSPIVQSYFRPEIKTKIV
FISRKILQKPPQRDSIDYLGNSNNDSSGSKTEINQIRTSTQLKISSDHVLNTEHLSTTV

>PAC:15706178 pep:novel scaffold:Aqu1:Contig11720:1222:2157:1
gene:Aqu1.207650 transcript:PAC:15706178 description:""
EGNFTFTGEFSGPGVAAVLIVEMILALIANGVLSITLYQRKSWKQSSSTIFFTSLILAH
VLNLLYLPFAIIALAAGEWIFGSTDEEKRGTCTSAAFVYSFTIPVIFMTLAAISFDRFLF
IVKPHLHKRFMRPWVALTLTIAIWILSAVFGTLPFFDIGQYSYGDELGYCTLIGVDIAAF
VVILVLIIFLVVGTIIVTSLWTFCTTRKFFKAQSVIAGESLYASKKKRLIGIFGSMLLIYG
TVYLIVLALNLLRIFIFLPYEFNVTGYIVFCFVTIASPIIQSYFRPEIKSVLVSRCPLLF
TCACCSCVHAV

>PAC:15706179 pep:novel scaffold:Aqu1:Contig11720:4382:5323:1
gene:Aqu1.207651 transcript:PAC:15706179 description:""
MAENFTFTGEFSSPAVAAVLTVVMILALIANGVLSITLYQRKSWKQSSSTIFFTSLILAH
LVLNLLYLPFTIIALAAGEWIFGSTDEEKTATCYFAAWMQWSGGSVLALTLAAISFDRFL
FIVKPHLHKRFMRPWVALTLTIAIWILSAVIGTLPFLDFGHYSYDELGYCTLVGVDIPA
FVAILVIVFLVVGTIFVTSWTFCTRSYFKAQSVIAGESVYASKKKRLFGVFGSMLLIY
GTVYFSTALNILLQIFIFLPFEFNVTNYIVYFMVTIASAIIQSYFRPEIKSVLVSHCPLL
FTCVCCSCVHAVC

>PAC:15709198 pep:novel scaffold:Aqu1:Contig12731:6409:7389:-1
gene:Aqu1.210670 transcript:PAC:15709198 description:""
MDYNFTATDLNFTATGSSINGPVLAAVFAVEAVVGFIANIIVLSITLYQRKSFRQPSTIF
FTSLILSNLLDALVYLPMTTVATGAEEWIFGSTFEVRRATCVFSGIINWFIIFITVAVLA
AISFDKCLFIVKPHYKRFMKPWVTLIITVALWLIIVALIFILPSLGFGEYDYHFEYGPCY
ITFKKNIAFVLFIATVLIIFIIVIIIVTSIWTFCTTRRFIRDQSAIAGENYHLKKMKLFG
IFGSMLLAYGICYGVSFTIGIVSLGVTFPHEVYATGVFVFQFSIIATPLIQSYFRPDIVD
SLKSFKNFVYTQMKKLQYSLPTPSQT

>PAC:15709199 pep:novel scaffold:Aqu1:Contig12731:7869:8867:-1
gene:Aqu1.210671 transcript:PAC:15709199 description:""
MDYNFTATDLNFTATGSSINGPVLAAVFALEAVVGFIANIIVLSITLYQRKPFKQPSTIF
FTSLILSNLLDALVYLPMTTVATGAEEWIFGSTFEQRKATCLFSGVIFWFILYVTAVLA
AISFDRCLFIVKPYFYKRFMKPWVALIIAVIPWMIIALIMMLPFVGFGEYGYQFDYGPCY
ITFENNMGFVIFRFATLFTFIIVIIIVTSIWTFCTTRRFIRDQSAIAGESVYHVKKMKLFG
IFGSMLLAYVICYGVSITIGIISAAVTFPHEVYATGMFVFQFSIIATPLIQSYFRPDIVD
SLKSFKNFVYTQIKRQRYSPSPIRLQTQHKF

>PAC:15709200 pep:novel scaffold:Aqu1:Contig12731:9312:10292:-1
gene:Aqu1.210672 transcript:PAC:15709200 description:""
MDYNFPALDFDNFTATGSSVNGPVLAAVFAVEAVVGFIANIIVLSITLYQRKSFRQPSTIF
FTSLILSNLLDALVYLPMTTVATGAEEWIFGSTFEQKKATCVFSGIIFWFILYVTAAMLA
AISFDKCLFIVKPYFYKRFMKPWVALIITVIPWMITTLIMILPLVGFGEYGYHFAYGPCY
ATFEKNMVFVIFRFATLFIIFIIVIIIVTSIWTFCTTRRFIRDQSAIAGENYHLKKMKLFG
IFGSMLLAYGTCYGASFTIGIISLTVTFSEEVHATGVFILQLNIIATPLIQSYFRPDIVN
SLKSFKNFVYTQMKKLQYSPPTPSPT

>PAC:15709352 pep:novel
scaffold:Aqu1:Contig12760:28957:29979:-1 gene:Aqu1.210824
transcript:PAC:15709352 description:""
MDNINDNFTLSDVINGPLLAAAFATEMIGGLITNSLVLIILTASHLKTWKQPTTIFLSNML
LNNLVIGICIIPFAIITAAGEWIFGRTEKEKETVCQVVGCIFTFTILTATESLVLLSFD
RFFFITKSFQYNKYMTVNKALVIVSLSWALAVFLSILPFLGFGVHEFLSGVGLCVAGWNG
QTAYAIVSFLVLCIFIGSIIIVTSIWTLCTTRKHIKKTAIRTSIGAERSNHTQERKVGIVF
GMLIIIVHLLCYAPIISFGLVESFINVLTPTAYAVAVFILFLITLIPLVQSFFRSDIRTA
IVKGSMTVIAFTKCRITPHQISTVEMIRPSTPITSSSSI

>PAC:15710365 pep:novel

scaffold:Aqu1:Contig12925:43645:44373:-1 gene:Aqu1.211837
transcript:PAC:15710365 description:""
MHFHTDGNYSFPEDFNGPLIAAALTVEFIGALVANGIVLIATLIQYKSLKVLSTMLFTSL
IIIHLLIISVLFILLWIIISAASEEWIYGTTIEQKIAACTFHGCVLNYGIWIIIFGTITAMSV
DHCIFIVKPNFYKRFMKPKVTLTLIALIWVVALILDAPLYGFGEVAYEEYGACVPRFEG
EITYVVITMTLVIMQICIIIVTSTWIYCFTHKFIQEHSQ LADDVYVSRNRRLVGIFCAML
IG

>PAC:15710682 pep:novel scaffold:Aqu1:Contig12965:2:839:1
gene:Aqu1.212154 transcript:PAC:15710682 description:""
IANGVVLSTITLYQRKSWKQSSSTIFFTSLILAHVLNLLYFPFTIIALAAGEWIFGSTDEE
KRGTCFSCSFTALCILLIIGMTVA AISFDRFLFIVKPHLHKRFRMPWVALTLTIAIWTL
AVLSSTPFYGLGNFSFDELLGFCFPLWISVDFIVYSLV IILLF SVIIVTSVWTLCTHR
FITQQSQLSNDNIYASKKKWLLGIFGSMLLVYGIYFMPGVIVVILIPLIDVPIALIVASI
ICSFFITVANPIVQSYFRPEIKSAFLSLFKKPSPFVSV

>PAC:15710683 pep:novel scaffold:Aqu1:Contig12965:2968:3888:1
gene:Aqu1.212155 transcript:PAC:15710683 description:""
MENKFTFTGEFSGPAVA AVLTVEMILALIANGVVLSTITLYQRKSWKQSSSTIFFTSLILAH
LVNLNLYLPFTIIALAAGEWIFGSTDDEKTRTCSFCSFTALCILLIIVMTVA AISFDRFL
FIVKPHLHKQFMRPWVALTLTIAIWTL SAVLSSTPFYGLGNFNFDDELLGFCFPLWISVDF
IVYSLIIALLF SVIIVTSVWTLCTHRFITQQSQLSND DTYGSKKKWLLGIFGSMLLVY
GICFLPSV IIVILIPLIDVPIALVISSIICSLFITVANPIVQSYFRPEIKSAFLSLFKRP
SPFVSV

>PAC:15710684 pep:novel scaffold:Aqu1:Contig12965:6737:7678:1
gene:Aqu1.212156 transcript:PAC:15710684 description:""
METVEAVEANFTFAQEFSSPVVA AVLI IQVILALIANGVVLSTITLYQRKSWKQSSSTIFFT
SLILAHVLNLLYLPFTIIALAAGEWIFGSTDEEKRGCTFAAFV FVSSILAIFMTLAAI
SFDRFLFIVKPHLHKRFRMPWVALTLTIAIWTL SAVLSFTPF FGFHFLYFSRIGSCFPI
WATLEYELYTLALVATNLLIIAVTSVLTFCFTRRFINNQSLITPNVYSCEKKRLF GIGFGA
MLLSYVVC FIPSVILIFLFLFPFTMPVEYIVTCFVSVL FVTTVNPLIQSYFRPEVKAIIN
SMFFQKLSKKILV

>PAC:15710685 pep:novel scaffold:Aqu1:Contig12965:7829:8776:1
gene:Aqu1.212157 transcript:PAC:15710685 description:""
MEDNFTFTGNFSTPAVA AVLSVETVAGLVANFIILSITLYQRKSLKQPSTIFFTSLILAL
LVLLLVLPLSIIAIAAEWIFGSSFE EK SATCSFAAYIFWYCLMVITLTLD AISFDRFL
FIVKPR LHKRFRMPWVALTLTIAIWILSAILNSAPFFGLGVFRYESWFGSCIPVWISIDF
VAYSLTIIFFLLSVIVITSLWTFCTRQFMNEQSLSTTPDAYTSQKKRLF GIGFSMLIVY
GICFTPGTIMIILIPVIDSPAELFVTSYVCILFITVANPIVQSYFRPEIKSTLLALCQRK
QANQFQSLELSKHS

>PAC:15710686 pep:novel scaffold:Aqu1:Contig12965:9018:9935:1
gene:Aqu1.212158 transcript:PAC:15710686 description:""
MNNFTYNGDFNNVAVGAALAVEGVSGFLANTFVLSITLYQRKSWKQSSSTIFFTSLILANF
VMVLLHFPFAVTALAAGEWIFGSTDEEKTGTCTFAALTFWYSSIV IILTAAISFDRFLF
IVKPHLHKQFMRPWVALTLTIAIWTL SAVLSSTPFYGLGNFSFDELLGFCFPLWISVDFI
VYSLV IILLF SVIIVTSVWTLCTHRFITQQSQLSND DTYGSKKKWLLGIFGSMLLVY
ICFMPAVIAIILIPVIEVPIALVISSIICSLFITVANPIVQSCFRPEIKSAFLSLFKKPS
PFVSV

>PAC:15710687 pep:novel
scaffold:Aqu1:Contig12965:10196:11158:1 gene:Aqu1.212159
transcript:PAC:15710687 description:""
MESNFSFTGFSFNRPVAITVLSITT LAALIANSVVLFITLYQRKSWKQSSSTIFFTSLILSN
FILNLLYLPFTIIALAVGEWIFGSTDEEKRGTCFAAFIVCYTVLVQSFTLAAISFDRFL

FIVKPHLHKRFMRPWVALTLTIAIWILSALFGSTPFYGLGKFAYLPNVGTCSPAFTTEYFF
VGYSAAIEVAVFLFIIITSVWTFCTYKFI RDQSAIGEESVYLSRKKRLVGIFGAMLLVY
VICLLPIFTVAILFPVVDISSHVVASVVFVLHFTVINPLVQSYFRPGFKDLILTVMKW
PKRRLTNAMLRLNRMPNQSN

>PAC:15710688 pep:novel
scaffold:Aqu1:Contig12965:12342:13573:1 gene:Aqu1.212160
transcript:PAC:15710688 description:""
METVEAVEANFTFAQEFSSPVVAVLIIXXXXANTFVLSITLYQRKSWKQSSTIFFTSLI
LANFVMVLLHFPFAVTAALAAGEWIFGSTDEEKTGTCTFAALTFWYSSIVIILTAAISFD
RFLFIVKPLLHKRFMRPWVALTLTIVIWILSAVLSCTPFYGLGNFGFTASIGLCIPLLVK
GGFVILAFITLILSLIIIVITSLWTFFFTWWFLRKRSMVVESNIYSSKKRGLLGIFGFML
LVYGISKGPRIIALVLVQFEVPFSSTSQIVIFYFYQLSIIIGDPIVQSFFRPGKQAMVSL
FKNCKK

>PAC:15710689 pep:novel
scaffold:Aqu1:Contig12965:15638:23368:1 gene:Aqu1.212161
transcript:PAC:15710689 description:""
MSNFTYNGDFS NVAAGAAALAVEGVSGFLANTFVLSITLYQWKSWKQSSTIFFTSLILANF
VMVLLHFPFAVIAIAAGEWIFGSTDEEKTGTCTLAALTFWYSSLVLVITLAAISFDRFLF
IVKPHLHKRFMRPWVALTLTIAIWILSAVLGSTPFYGLGGFGFNTSIGMCLPFLIKDIIIL
AFLILIIISLLIIIVITSLWTFFFTWWFLHRRSMVVESNIYLSKKRGLFGIFGAMLLVYGI
SKGPRIISLVLVQFEVPFSSTAIEIAIFYFYQLSIIADPIVQSFFRPGFKQAMVSLFKKCK
NNVAVGAALAVEGVSGFIANTFVLSITLYQRKSWKQSSTIFFTSLILANFVMVLLHFPFT
IIALAAGEWIFGSTDEEKRGTCTFAAFTFWYSSLIIVMTIAAISFDRFFFIVKPHLHKRF
MRPWVALTLTIAIWILSAVLSSTPFYGLGDFGFIA SIGLCLSFLIKDGSVILAFIILILS
LLIIIVITSLWTFFFTWWFLHRRSMVVESNIYSSKKRGLFGIFGAVLLVYGISKGPRIIAL
VLVQFEVPFSSTALIMIYLVYQLSIIADPVVQSFFRPGFKQILGRPIAMYITVISLLQQQ
TIANAASSHNSALLVAEHHKRVVHLACLEEAALIMNFTYNGDFS NVAAGAAALAVEGVSG
FIANTFVLSITLYQWKSLKQSSTIFFTSLILANFVMVLLHFPFAVTAALAAGEWIFGSTDE
EKIGTCTFAAFTFLYSSVVIILTAAISFDRFFFIVKPLLHKQFMRPWVALTLTIVIWIA
AAVLSSTPFYGLGDFGFVASIGLCIPLLVKDGFVILAFITLILSLIIIIITSVWTFFFTWW
WFLRKRSMVVESNIYLSKKRGLFGIFGAMLLVYGISKGPRIILLVLVQFEVPFSGTALIV
IIFYFYQLCIIADPIAQSFRRPGFKQAMLAWKKLLVMNNFTYNGDFS NVAAGAAALAVEGV
SGFIANTFVLSVTLYQWKSLKQSSTIFFTSLILANLLMVLLHFPFTIIALAAGEWIFGSTD
EEKTGTCFAAFTFWYSSLVLVMTVA AISFDRFLFIVKPHLHKRFMRPWVALTLTIAIWI
LSAVLSSTPLYGLGGFGFNASIGMCLPFLIKDASVISAFILILSLLLIIIVITSLWTFFF
TWWFLHKRSMVVESNIYSSKKRGLIGIFGAMLLVYGISKGPRIISLVLVQFDVPFSSTA
EIVIFYFVQLSIIADPVVQSFFRPGFKQVLVSLFKKCKK

>PAC:15710691 pep:novel
scaffold:Aqu1:Contig12965:26889:27827:1 gene:Aqu1.212163
transcript:PAC:15710691 description:""
MDEVNDTLYTFTGSVNTYVLA AVFVLEFIAGFIFNTIVIGITIYKGSWKKQGTIFFTSLI
LANLLLVILYIPFLVIGLAARKWIFGNTVAEKLASCWFVGFALWYSFIIILMTLAAISLD
RFLFVIKPHFHKWFMRPWVTLTLTIAIWILSAVLSSTPFYGLGTYYAYGRWYGSCVPLWVE
IGFIIYSVTISLLVIAVIVITSVWVFCFTRIFIKVHPEVEVPADPDTVICLSKKKRLFGI
YGSMLLAYTVCFAPTLISSIISSSIDIPGEVFFLNVITFFLITVVSPLIQSYFRKDIKEV
IVLCYKKITKKQ

>PAC:15710692 pep:novel
scaffold:Aqu1:Contig12965:28337:29296:1 gene:Aqu1.212164
transcript:PAC:15710692 description:""
MEYHNFTATGDVNGPVLAAVLAVEAVVAFIANIIIVLSITLYQRKSWKQSSTIFFTSLILS
NLLAVVGYLPMNIVAIGAEWIFGSTFEERSITCLISALIIQLNIAVTTEILAAISFDRCL
LFVVKPHLHKRFMRPWVALTLTIAIWIFCILLMLPLLGF GKYSYEFSGPCIPMLIKSP
VYSFVHAALHIIISFAVIIITSIWTCCTQRFINDQSEIVGDNSVYASRKKKLF GIFGSMF

LAYSFCYGPSYITLMLYPVVEIDEIVYAADMVTFQFITVASPLIQAYFRPDIKNALIWFK
KSIVSQIGKRLYSPQNEQ

>PAC:15710693 pep:novel
scaffold:Aqu1:Contig12965:30227:31309:1 gene:Aqu1.212165
transcript:PAC:15710693 description:""
MSIQSENNFTLNDDVNGPVLAAVFATEMILALIANGVLLITITQRNSWKQSSTIFFTSL
ILAHVLNLLYLPFTIIALAAGEWIFGSTDEEKRETCDFVAYTLWYSIPVITITLAAISF
DRFLFIVKPHLHKQFMRPWVALTLTLAIWILSAVVTFTPFIKGSGAAFIYEGSHGTCTII
LLELEFAIVCFLGSLLVSSIIVVTSVWTFCTFRKFIHNQSEIAGDNVYASRKKRLFGIFG
AMLIVYGLCFTPGIINYAVVRVIFVDDRIYLAIVISFIFVTVLSPIVQSYFRPEIKNKIV
FICRKILQKPPQQRDRVNPVSSNNSSSGSKTEINRIGTSTQLTMSLDNALNTEHSSTTV

>PAC:15710694 pep:novel
scaffold:Aqu1:Contig12965:44866:45948:1 gene:Aqu1.212166
transcript:PAC:15710694 description:""
MSISSENNFTINDDVNGPVLAAVFATEMILALIANGAVLLITITQRNSWKQSSTIFFTSL
ILAHVLTLNLLYLPFNIIALAAGEWIFGSTDEEKRGFCSFISYTLWYSIPVITITLAAISF
DRFLFIVKPHLHKRFMRPWVALTLTLAIWILSAVVTFTPFIEGSGAVFMYEGSHGTCTVV
ILELHFAIFSFGSLLVVGIIITVTSVWTFCFARKFIHNQSEIAGDHVYASRKKRLFGIFG
AMLIVYGLCFTPGIINYVVVRAIVVADEIYLAVVISFIFVTVLSPIVQSYFRPEIKNKIV
CICRKILQKPPQQRDSVDYLGNSNNDSSSGSKTETNQIRTSACLTMSLDCVLNTEHLSTTV

>PAC:15710695 pep:novel
scaffold:Aqu1:Contig12965:48640:49623:1 gene:Aqu1.212167
transcript:PAC:15710695 description:""
MEGNFTFTGDFNTPAVAAVLTVEMILALIANGVVLISITLYQRKSWKQSSTIFFTSLILAH
LVLNLLYLPFTVIGFAAGEWIFGSTDQVKRGFCFNAYILWYSILNIIMMLAAISVDRFL
FIVKPHLHKRFMSQPKVALTLTIAIWLLAAVLSSTPFFGLGEFGYETWFGGCLPLWTTIE
FTVYTIIVCLVIIIFIISLTSIWTFCFARRFLTDQSRLTTENNVYSSKKQRLIGIFGAMS
LVYLLCFSPGIIISAFLTPLTLVPYEVIVLVIVTIELLTIAGPLVQSYFRPDINKVLVSLY
TKMRRLFRNMQSVCSNRELDTKISYV

>PAC:15710773 pep:novel
scaffold:Aqu1:Contig12972:28306:29304:-1 gene:Aqu1.212245
transcript:PAC:15710773 description:""
MERNYTFTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LVLTLYLPFFIAALAAAGEWIIIGSTDGEKKATCDFNGFIIHSGYVMLMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIVWIVTALFFSLGFIDGSGVVFRYIDNVGGCYVYTTSPV
TSIIRYLFASLIFCTIVVTSIWTFCTFRMFNNQSMIVGESVYASKKKRLFGIFGSMNVV
YCIFFTPAIFFSALLAIVDSPGVLSMTALIFFFLVVVLNPNVQAYFRPEINSVIVNIVCC
KILKKKPNPATTLSTFNLSATLEFSVSSLDV

>PAC:15710774 pep:novel
scaffold:Aqu1:Contig12972:34323:35321:-1 gene:Aqu1.212246
transcript:PAC:15710774 description:""
MERNYTFTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LALTLYLPFTIAALAAHEWVVGSTDGEKQGTCSFTAFVILLSVYVMLMTLSLISIDRFLS
IVKPHLHKRFMSPRVALVLVIIVWSFDLLFFSTGFIEDSGVEFRYIDYLGICYAFTTSPV
MAIFRFFASLIFIIIIIVTSVWTFCTFRKFINNQSMIVGESIYASKKKRLFGIFGSMLLV
YGIFFTPSIFFSALLAIVDSPGVLTISALMFFFLVVVLSPVVQAYFRPEINSVIVNIVCR
KILKKKHNPAAATSTCNSSSAVELRVSSLDV

>PAC:15710775 pep:novel
scaffold:Aqu1:Contig12972:36940:38446:-1 gene:Aqu1.212247
transcript:PAC:15710775 description:""
METNYTFTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH

LVLTLFLPFFIAALASGEWIIIGDTDEEKKATCGFTAFVMIYCGYVMLMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIVWIVTAVLNSSGFINGSGVFGRFVLSLMIVGESVYASK
KKRLFGIFGSMLLVYGICVSPIIFFSALLAIIDSPGVLGITAVIFFFLVVLSPVVQAYF
RPEINTVIANVIVNIACHKMSKKKPNSATTSSSSSAVELRVSSLDLDFSLVIERMERNYTF
TGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWK

>PAC:15710776 pep:novel
scaffold:Aqu1:Contig12972:43001:44234:-1 gene:Aqu1.212248
transcript:PAC:15710776 description:""
MITVDCSNFSCSSSTFGELSLANEAEFSLVIERMERNYTF TGDFSPEAVAGVLSIEMILA
LIANGVVLVITIIYQRKSWKQSSTIFFTSLILAHVLTLTLYLPFSIAALAAGEWIIIGETDED
KEGTCHFNFGFIILFSAYIVFMTLCLISIDRFLFIVKPHLHKRFMSPRVALVLVIIVWIVN
AAFYSAGFIDGSGIVYQYVWTFCTRKFINNQSMIVGESVYASKKKRLFGIFGSMLLVY
GICFIPAIFFGTLLAIIDFPVVLGITALLIFFFLAVVLSPVVQAYFRPEINSVIVNIVCRK
ILKKKPNTLATSSSTCNSSSAVELRVSSLDV

>PAC:15710777 pep:novel
scaffold:Aqu1:Contig12972:48557:49546:-1 gene:Aqu1.212249
transcript:PAC:15710777 description:""
MERNYTFNGFSFPEAVAGVLSIEMVLALIANGVVLVVTIIYQRKSWKQSSTIFFTSLILAH
LVLTLSLPFSIAALAAREWVVGDTDEEKQGTGFTAFMILFSVYVMLMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIVWIVPAAFFSSGFINGSGAEFRYIDYLGVCSAFTTSPV
MAIFRFFFASLMFGRFASLSMIVEESVYASKKKRLFGSMLLVYGICFTPSIFFSTLVAIV
DSPGALTLTALMLFFFAVIPSPVIQAYFRPEINSVIVDIVCRKMLKKKPNKLATSSTCDS
SSAAVELRVSSLDP

>PAC:15710836 pep:novel
scaffold:Aqu1:Contig12980:17612:18616:-1 gene:Aqu1.212308
transcript:PAC:15710836 description:""
MESNYTYTGDFSPEAVAAVLSIEMILALIANGVVLVITIIYQRKSLKQPSTIFFTSLILGH
LVMILYLPFSITALAAGEWIIIGSTDEERQGSDFSAFIILYCVYVMLMTLSLISIDRFLF
IVKPHLHKRFISPRVALVLVIIVWVFNAAFFSSGFIDGSGVVYQYIPDLGVCYAYTISTI
AAVIRFLLTLVLLCIIVVTSVWTFCTRKFINQSEIVGDCVYASRKKRLFGIFGSMLLI
YGVCFIPSAVLSSFLAIADPPGALVVSALILFFLAIVLSPVVQSYFRPEINSVIVNIICH
KIMKKPHTTTSSMCNNSSANRGTNIDSLDINLHA

>PAC:15710930 pep:novel
scaffold:Aqu1:Contig12992:13727:14362:1 gene:Aqu1.212402
transcript:PAC:15710930 description:""
MNNSSTTSTREELHAAVIAAVLTVEMILAVIANGVVLSTLYERKSWKQSSTIFFTSLIL
AHLVLILLYLPFTIIALAAGKWIFGSTDEEKTCTFVFYLYWYIIAVISMTLAAISFDR
FLFIVKPHLHKRFMRPWVAQTLTIAIWLLSAIXXXXXXXXXXXXXXXXXXFFVFIAVANPVVQ
SYFRPDIKTFCFSHCPLLSTCLCCSCLHNVF

>PAC:15710932 pep:novel
scaffold:Aqu1:Contig12992:24170:25111:1 gene:Aqu1.212404
transcript:PAC:15710932 description:""
MEGNFTFTGEFSGPAVAAVLTVEMILALIANGVVLSTLYQRKSWKQSSTIFFTSLILAH
LVSNLLNLPFTIIALAAGEWIFGSTDEEKTGTCDFAAWMLWFGASCMSMTLAALSFDRL
FIVKPHLHKWFMPCVALTLTIAIWILSAVLALPFIIDIGNYSYDNDIGICTIVGVDIAF
FILILVIFLIVGTIFVTSLWTFCTRSYFKAQSVIAGESVYASKKKRLFGVFGSMLLIY
GISHLLVALWVLLQIFIFLPYEFFVIVYIVYFFVTIASPIIQSYFRPEIKSVLVSRCPLL
FTCVCCSYVHAVC

>PAC:15710934 pep:novel
scaffold:Aqu1:Contig12992:27942:28865:1 gene:Aqu1.212406
transcript:PAC:15710934 description:""

MEGNFTFTGEFSGPAVA AVLTVEMILALIANGVLSITLYQRKSWKQPSTIFFTSLILAH
LVLNLLYLPFSIIAFAAGEWIFGSTDEEKKTCTFTSFLYSYTMRIIFMTLAAISFDRFL
FIVKPHLHKRFMRPWVALTLTIAIWILAAVLSSVPFYGLNEYVYDDQLLLQYQRPNSTIS
LIIFNVLFPCVTTAIIIVTSLWTFCFARSYFKAQSLIAGESVYASKKKRLFGVFGSMLLI
YGMGIVPGLVLLSLQHFVDVPPLEFISFVIFLFFITIASPIIQSYFRPEIKSVLASRCPL
LFYCACC

>PAC:15710937 pep:novel
scaffold:Aqu1:Contig12992:44064:45005:1 gene:Aqu1.212409
transcript:PAC:15710937 description:""
MEGNFTFTGEFSGPAVA AVLTVEMILALIANGVLSITLYQRKSLKQSSTIFFTSLILAH
LVSNNLLNLPFAIIALAAGEWIFGSTDEEKGRTCIFAAFILWFGASFISMTLAAISFDRFL
FIIKPHLHKRFMRPWVALTLTIAIWILSTVLCALPFIDIGHYSYHDDLGICTIDGVDIAF
FVVILVSIFLIVGTIFVTSLWTFCTRSYFKDQSVIAGESVYAFKKRLIGVFGSMLLIY
GISHLLVALWVLLQFIFILLPSEFSVTSYIVYFFVTIASPIIQSYFRPEIKSVLVSRCPLL
FTCVCCSCVHAVC

>PAC:15710938 pep:novel
scaffold:Aqu1:Contig12992:45265:46197:1 gene:Aqu1.212410
transcript:PAC:15710938 description:""
MEGNFTFTGQFSGPAVA AVLTFEMILALIANGVLSITLYQRKSLKQSSTIFFTSLILAH
LVLNLLYLPFTIIALAAGEWIFGNTDEEKIATCTFTAFLYSYTIRIIFMTLAAISFDRFL
FIVKPYLHKWFMRPWVALTLTIAIWILSAVLSSAPFYGLNEYVYDDQLLLQYQRPNSTIS
FIFYVLFPCVTTAIIIVTSLWTFCFAGSFFKDQSVIAGESVYASKKKRLFGVFGSMLFIY
GICIVPGLVLRSLQEFIDVPPKLSISSMTCFLFITIASPIIQSYFRPEIKSVLASRCPLL
FTCACCKFIH

>PAC:15710939 pep:novel
scaffold:Aqu1:Contig12992:46555:47452:1 gene:Aqu1.212411
transcript:PAC:15710939 description:""
MAKNFTFTGEFSGPAVA AVLTVEMILALIANGVLSITLQCRKSLKQPSTIFFTSLILSH
LVFNLLYLPFTIIALAAGEWIFGSTDEEKTATCTFTAFTIYSYTIPVIFMTLAAISFDRFL
FIVKPHLHKRFMRPWVALTLTIAIWILSAVLSSTPFYGLNEYVYDDHQSYYPVIL

>PAC:15710940 pep:novel
scaffold:Aqu1:Contig12992:51121:52032:1 gene:Aqu1.212412
transcript:PAC:15710940 description:""
MESNFTFTGEFSGPAVA AVLTVEMILALIANGVLSITLYQRKSWKQSSTIFFTSLILAH
LVLNLLYLPFTIIALAAGEWIFGSTDEQKTGTCYFNLFIFWWMVVTIFLMLTTISFDRFL
FIVKPHLHKRFMRPWVALTLTIIWLLAAVSNIIYLLTFHSDIDPDLCYLLPINVNRSSV
FAIVSTVIVLIIMFVTSLWTFCTKSIFYKAQSVIAGESVYASKKKRLFGVFGSMLIIYGI
CFVPAVVYLIAFLFVDVPVWYSFTAFCYLFITVANPVIQSYFRPEIKSFFVSHSLHHFH
ICC

>PAC:15710941 pep:novel
scaffold:Aqu1:Contig12992:54553:55494:1 gene:Aqu1.212413
transcript:PAC:15710941 description:""
MESNFTFTGDFSGPAVA AVFTVEMILGLITNGTVLFIITLYQRKSWKQSSTIFFTSLILSH
IVINLYLSTTIVALAAGGWIFGSTDEEKTWTCIFAAWLLWSALAVLSYTLVALSFDRFLF
IVKPLLHKRFMTPRVALTITIVIWIAA AVLNLWPVLHNFEHYGYLNDLGSCSIIIGVDLAA
FVVFLISNFIIFGSI AVTSLWTFCTRSYFKAQSVIAGESVYASKKKRLIGIFGCMLIVY
GLFYLQSVSVSFLQLFIVVPNQFFLALSVTFSLVTIASPIIQSYFRPEIKSVLVSRCPLL
FTCVCCSCVHSIC

>PAC:15710942 pep:novel
scaffold:Aqu1:Contig12992:57178:58116:1 gene:Aqu1.212414
transcript:PAC:15710942 description:""

MESNFTFTGEFSGPAVAAVLTVEMILGLITNGTVLFIITLYQRKSWKQSSTIFFTSLILSH
IVLNLQLSFSIIIALAAGGWIFGSTDEEKTWTCIFAALLWSALAVLSFTLVALSFDRFLF
IVKPHLHKRFMIPRVSLTITIVIWIAAVILNLWPILHNFEHYGYLNDLGGCSIVGVDIAA
FVVFLVSNFLVFGSITITSLWTFCTRSYFKAQSVIAGESVYASKKKRLIGIFGMLIVY
GLFYLQSVVSFFLQLFIVVPNEFFLALFLTFSFVTIASPIIQSYFRPEIKSVLVS CCPLL
FTCVCCSCVHAV

>PAC:15710943 pep:novel
scaffold:Aqu1:Contig12992:60240:61184:1 gene:Aqu1.212415
transcript:PAC:15710943 description:""
MESNFTFTGKLSGPAVAAVHTVALILALIANGIVLSITLYQRKSWKQSSTIFFTSLILAH
LVLNLLYLPTIIIALAAGEWIFGSTDEEKTGTCAFAAFILWFGACVISMTLAAISFDRFL
FIVKPHLHKQFMRPWVALTLTIAIWILSASVFGSLPFLDIGHYSYDDELGFCILIDVKIA
SFVVILVIVLLVVGITFVTSWTFCTKSYFKAQSVIAGESVYASKKKRLFGVFGSMLLI
YGTAYLFVALGILLQIFISPPYELYISYYIVFFVTIASPIIQSYFRPEIKSVLVSRCPL
LFTCVCCSCVHAVC

>PAC:15710944 pep:novel
scaffold:Aqu1:Contig12992:62266:63210:1 gene:Aqu1.212416
transcript:PAC:15710944 description:""
MESNFTFNGEFSGPAVAAVLTVVMILALIANGVLSITLYQRKSWKQSSTIFFTSLILAH
LVLNLLYLPTIIIALAAGEWIFGSTDEEKTGTCTFVAFILWFGASVITITLAAISFDRFL
FIVKPLLHKQFMRPWVALTLTIAIWILAAVLNFWPVIHNFEHYSYNYELGYCTLVGVDIA
AFIVFLVAIFFIVGTIFVTSWTFCTKSYFKAQSVIAGESVYASKKKRLFGVFGSMLIV
YGTSYLLTAFSIFLQLFIVVPNEYVYVMTIAFPVITIASPIIQSYFRPEIKSVLVSRCPL
LFTCVCCSCVHSIC

>PAC:15711746 pep:novel
scaffold:Aqu1:Contig13069:63737:64684:1 gene:Aqu1.213218
transcript:PAC:15711746 description:""
MDIHGLNYTLGEDVNGPLLAALAVEMIAALIVNTFVLVATFSQCKSLKLPSTILFTSLI
MIHYVMALIYIPSWLISAAYGEWIFGNTMQVKEATCNFAGFILNYNITFINATLAAISVD
RWLFIVKPIFYKQYMKAKVALIVASTWITSTLLNVPPFFEMGKYVFSFPGSCEVKFENE
ASFSFLLL VVFFTEASIIIVSSIWTCCFTRRFIREHAQLADESAYVSKNRRIIGIFGAML
VAYGVCYTPAVIVIVTSLFHDVPASYIAASLVFLLTVIIINPIIQSIFRPDVKKVIVKLC
TICRKHQYSPEEPQP

>PAC:15711978 pep:novel
scaffold:Aqu1:Contig13087:72248:73198:-1 gene:Aqu1.213450
transcript:PAC:15711978 description:""
MDVFGNLTAEDEVNGPLLAVALTLELIAALVTNTIVLAATLSQQKSLKLPSTILFTSLI
MIHYVMAFIYILSWLISVISGGWIFGTSEEEKEATCNAAGFVVCYSLSVINATLTAISVD
RWLFIVKPNFYKQYMKPKVTLVLVLSIWIFSGLTFITTFFGIGGFVFTTLGSCGPKFKDE
TGFTILLLLAIFFPESIVIVTTSVWTCFTKKFIREHAQLAENNVYVSKNRRLTGIFGLML
IAYVICYVPSLIPILNQFHDVPAMWIAFGLVCILAMTFINPIIQSFRRREVKEEIKKFC
NIIKCCPHRSNAIMAG

>PAC:15712451 pep:novel
scaffold:Aqu1:Contig13121:67635:68712:1 gene:Aqu1.213923
transcript:PAC:15712451 description:""
MDDINNNFTLSQDVNGPLLAAVIGMEMLAGLITNSFVLILTACHLKNWKQPTTVFLSNML
ANNLVVILFTMPLSIITTASGEWIFGSTVSQKESVCYFAAFIFIFSILTATESLVLLSFD
RFFFIVKALHYKKYMTVNRAFIIVAVSWLLAAFLSMLPFFGFGAFEFASSYGMCPVGWTG
QAGYAIFSIFVISIFIGSITVTSWTCFTRKYLKNAATNISTAASPAAYAVAFVLLLL
TVLIPLVQSFFRRDIRDAIVKGHRTFFRSIKQEKTYPHQSSTQTVKPSNATTSSYTI

>PAC:15712452 pep:known

scaffold:Aqu1:Contig13121:72652:76703:1 gene:Aqu1.213924
transcript:PAC:15712452 description:""
MDDINNNFTLSEDEVNGPLLA AVIGIEMLAGLT TNSFVLILTACHLKNWKQPTTVFLSNML
ANNLVILFTMPLSIITTATGEWIFGSTVSQKESVCYFAACIFIFSILTATESLVLLSFD
RFFFIVKALQYKKYMTVNKAFIIAAVSWLLAAFLSMLPFFGFGAFEF SFSYVISIFIGSI
TVTSIWTCMCFTRKYLKNAATNISTAASPGNPYAAQERRVIGLFAAYAVAFVLLLLLTVLI
PLVQSFFRRDIKDAIVKGHRTLRSIKRGKTYHQSSSAQTLRSACGLFNHKASHLSFLNS
IMSLSGESDKRVDPTTNKVVLVGDETVGKTS MFLRFKTD RFIETTSSTRYLAEHYKEWTV
RGTKVQMTLYDTAGMERYTSTIPPTYFRHARAVILVYAVDNQESIGNIRNWSEFSKHRI
GDTVDSLKVLLVGNKVLDLNR TVSANRVNEVAEFCGIDNSLKYEISTKNNDGGFDELFDL
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>PAC:15712786 pep:novel
scaffold:Aqu1:Contig13148:95889:96875:1 gene:Aqu1.214258
transcript:PAC:15712786 description:""
MSDVFYNF TESNEGVYGP AVAVILGLEMVAGLFANAVVLCITLMQRKSLSQPSTIFFTSL
TAAHLLMVLLYLPVS VIAIGAEWIFGSNFEEKITCSISAFVFWYSVLLMTINLAVISF
DRFLFIVKPHFYKQFMRPTVALILTIAVWILSAALNSTPLYGLGAYQYGPSYGSCRIPTWR
NVPGYLSFMAAIFLIVLAFIIVTSLWTF CFTRKFMHEQE PSQQSNVYQSKERRLF GIGFGA
MLIVYGVCFLPSVITGIMTIFVILPGQVYAMD MILFQLITSGSPLVQSYFRPDIKERLTF
IYKRSLQMMKNIFYSRKKNNLSQDEQLS

>PAC:15712925 pep:novel
scaffold:Aqu1:Contig13160:52203:53790:1 gene:Aqu1.214397
transcript:PAC:15712925 description:""
MDDDLMSGSGNGLINETEFD FSCRTSVLSTTNVTDQEFWTFRGNL GSGTIAIAFFESIIF
IVALSWNLFIFV TYLLKYRLLKEPANIMLFTLSIVDLLVCILII PFPIIVVAANGEYIFG
NSDVVRCIICQVQGYFFILSTELSLHLLAILSIDRCILLSNPLKYKDIKKVWTTTVVGILV
IWVFCFLLALPPAFGFGEWENRSFGVCIPRWTPFRNSLYMILLMIEGLIPIITLAVTNV
WTFKIVNRFLKKNLERKKSFRATREEVAVEKSTHRSQQNQLVKVF GALFIANIISWTPLL
SLTFAIAATDGDGIPAWLLIVGWMFLLNPTVHP ILESFFIKELRTRVNRASNSVKQQVR
RASRSILKMATLDSFKDIPTMNEDESEKSRRVFG LKRKSTSQSIGNASVNTSMTDASPP
DSPMGITRANTLTNSGRFP HRNRRSSSPKDNIIGTEILPPSPLLTPVSAALPRISEDSQL
ALTDIAKSQNNVKPKASSITDLSGKKKKRHISITVPGEKDVYRPEDRDS

>PAC:15712931 pep:novel
scaffold:Aqu1:Contig13160:69230:70549:1 gene:Aqu1.214403
transcript:PAC:15712931 description:""
MDFFGSGDDGLNATSNYTTNYTDFDCLKSELDPNGITNRTFWSLRDTVVDGGIPSAVIQS
LILAVALGWNLFII VVFI LKRELLKEPANILLFTLAIVDVLICLIVVPGPIVVT AANGEF
VLGRNDQIRCAICDTQGFFFI FLTVLSVHTLALLSIDRCILLSNPMKYPRYRKVGLWVLF
IVLVWLLCLII SMPPAFNVGFGQWEFNRNFG LCLPRWIPPTYMGFVFLEGLIPITVIIIT
NIWTFKII LSFLKRKQVRRRESRLTSLSRKESEAEVQIKQQQKQLVQVFGALLIATIIAW
VPLLTMFLVLI GTDGEVDPDWIYLV CWFY LINPLVHP ILESFLVKELRTRIDKTKTNIR
RASQSVMLASRSTIKDIPEMSESTPYTKSRVFSFSSNPYHSERKSDSLNGSIRNGSPPA
NDDNDNVFTPTSKVRFSIV

>PAC:15713478 pep:novel
scaffold:Aqu1:Contig13191:66817:68024:1 gene:Aqu1.214950
transcript:PAC:15713478 description:""
MENANFTLSD EINGPLLAGAIGIVTVVALLTNSFVLLLTLC HFKAWKQPSNIFLTNMLLS
NLLISVFLMPLCVVTCATGEWITGATDAQLKTCQATAYIFLYNLIVETESLT LISLDRL
FFIVKSMEYHKYMSTKALLIVLLSWLLAAILSTPPFYGLGSFEFAESYGICVPGFEGQL
GFSIYLF LILLSLGGIIVISS TWTFCYTRNFLRRNSRKTARN SVYLSQKRKLIGLFGTL
VVIHILCYSLM LSLAVFGPFFTISP PWYAAAFM LLLMTNLSPLAQSYFRYEVNFVHSL
FIKIGIVKLRASTLVQQERTATTELPSP TETRDTIHSTNCQFLNGESEIDKHVV

>PAC:15713938 pep:novel
scaffold:Aqu1:Contig13214:46818:48119:1 gene:Aqu1.215410
transcript:PAC:15713938 description:""
MDSLDDDDQVLSANENFTISPSISGPAIAFFLSLEMGISLAINSTILGIIIFLHPKPRSLLIK
APSNIYLTSMALLVNLLATLTVMPMIIIASASGEWIFGGTLEEKVSSCRFAGYMYWYVIFL
LIVTLAIIISVDRWMFIVKSTLYKKMMTPVAIGVVITAWLLTAVLNTTPLYGFGMFAYSS
SPGSCFPVWKDQKAYLAFFVLVFLILISIIAASSIWTFCSRRFIRMSLRNIDASGEAA
SVYTFRWRKLIGIFGTLSIVYVVCFTPSLLYLLIRLATPIPLQILPAILIFFLLITILNP
LVQIFFRRDIKNVILDFLAKTPCYTKEEVDYEHRSRTRS NFELQHALSLTAMGKDVANGG
SALDVSPDEGHSSDPKSSGKVVKFEDSESVPVQANGATSVGGDATNDSASSESVSNGVS
KTNGGDILGSTAV

>PAC:15713939 pep:novel
scaffold:Aqu1:Contig13214:48793:49833:1 gene:Aqu1.215411
transcript:PAC:15713939 description:""
MDYEDDETFILEENYNFTLNPLINGPALASIVGLELFAGFITNSLLLALT V FQWKNWKL
PSTVFLTNLLLCNLLLVLLVMPFTIITGATGEWVFG RNPVEKRTVCRIIAFIFWYGITVF
TFGLVILSFDRFFYVVKAVAYKNRMTIKKAVTIV IATWVAGGALNITPFFGMGKYSFIAC
CGVCVPRWAGEPEYIYILIIYVTCILSIVVTSIWTCIFTRRFLGKDERRTRFVSQNTRS
HLYATKNQRLGLFGMTVLVHLLCYLPGISSSFLELFI PVPVQLYTTMYVAFLMAATLGP
LVQSFRRDIRETLSQLCGEKFKVFAVNRSFISSSSIKVNTNSTCL

>PAC:15713940 pep:novel
scaffold:Aqu1:Contig13214:53879:54397:1 gene:Aqu1.215412
transcript:PAC:15713940 description:""
MIGGLIANSFVLILTICHIKTWKQPSTLFLTNMLISNLLIVLFVRPFSITTAASGEWLFG
KTYKQKVVCQFTAFIFWFCVIVITEGLVLLSFDRFFYIVKSFEYERHMNRKISIIIVTL
SWLLAALLTIPPLFGLGRFGFSSSYGICVPHWEGESGYVVYMLMVFIIFIKS

>PAC:15713942 pep:novel
scaffold:Aqu1:Contig13214:57845:58461:1 gene:Aqu1.215414
transcript:PAC:15713942 description:""
LRKMEDMDENFTLSGDINGPLLA AVISIEMIAGLIANSFVLILTICHIKTWKQLSTIFLT
NMLISNLLIVLFVMLFSITTAASGEWLFGRTYKQKMKVCQFTGFMFWFCVIVITEGLVLL
SFDRFFYIVKSFEYERHMNQKISIIIVTL SWLLAALLTIPPLFGLGRFSFSSSYGICVPH
WEGESGYVVYMLIVFIIFIISLHN

>PAC:15713944 pep:novel
scaffold:Aqu1:Contig13214:61345:62064:-1 gene:Aqu1.215416
transcript:PAC:15713944 description:""
MLYFKACGYRLVLKNKEEESMDAVHNNFTLSPDINGPLLA AVISIEMIAGLIANSFVLIL
TICHIKTWKQPSTIFLTNMLISNLLIVLFVMPFPVITSAFGEWIFGSTLDQKESVCKFTA
IMSLFCVAVATEGLALLSFDRFLFIVRAFQYNRYMSINKSLIAISISWAIAGIISIVPVL
EFNVYEFAYSFWYLC SWFRGTGWFC SICFYLSSTASGEYHSNFSMDVHIYEEISQNKKD

>PAC:15713945 pep:novel
scaffold:Aqu1:Contig13214:62301:63302:1 gene:Aqu1.215417
transcript:PAC:15713945 description:""
MEDENNFTLSGDINGPLLA AVISIEMIAGLIANSFVLILTICHIKTWKQPSTIFLTNMLI
SNLLIVLFVMPFAITTAASGEWLFGKTDKQKVACQFTAFMFWFCVIVITEGLVLLSFDR
FFYIVKSFEYERHMNRKISIIIVTL SWLLAALLTIPPLFGLGRFGFSSSYGICVPRWEGE
PGYVVYMLIVFIIFLLSIIITSSWTMIYTRYLNMERQRLQLFDVNNDGNTNDIYASRKR
RVIGLFGMIMIVHLLCYLPSMIVALMELVTAPPPQLYATIFLLFLLLT VLSPLVQSFFRR
DIRGTVVKLTGWCEVAKLFNKKYTRIASSSEN

>PAC:15713946 pep:known
scaffold:Aqu1:Contig13214:63443:64519:1 gene:Aqu1.215418

transcript:PAC:15713946 description:""
MRNSNEYLKYFLFRPKSSSSMDDIIELNHNFTLSGDINGPLLAAVISVEMIGGLIANSFV
LILTICHIKTWKQPSTIFLTNMLISNLLIVLFVMPFPITTCSTNGKMWMLGETEAEQVKYCY
FAGYLYWYSVLLITQSLVILSFDRFFYIVKSFMYERYMTGKRSLSIVAFSWLIASILNIT
PFIGLGSFGFINSYGSCGPLWEEEMGHVIYTFIIFIFYIGSIVTTTLWTYCYTRRFLQSE
RLRTEFISRIPQQCSVYISKEKRLIGLFGMMMVMVYLTCYAPGLVAIVAVIFTPLPQPVYA
SVYVLFLLITVLSPLVQIIFRRDMREAVSKIICKQRKEGASKCERQNSRSFMLTHLHT

>PAC:15713947 pep:novel
scaffold:Aqu1:Contig13214:64616:65617:1 gene:Aqu1.215419
transcript:PAC:15713947 description:""
MDDEQQDVLRLNRYNFTLSADINGPLLAAVISIEMIAGLIANSFVLIITICHSSGTWKKP
STLFTNMLICNLFTVLLVMPPLNIISLASRGWIFGVTVDQKLITCNLAGYIYWNVSLLIS
LSLMLLSIDRWIYIVQAMRYDSLVTPRRALLAIIITWSLAIVLNVTFFFGTYNFLESY
AGCSPIEWEGHVGVVYMLIIFVSIVGTIVVTSCWTFCYLFMYIRRRKERSSIGPGRKRSI
DQYVAARRKLIVLFGVLLFIHFISYLPGIITAGVVIVVSLPKEVYATSYILFLSITTLS
LAQSCFREDIRSKLCKKKEEPPGTVDSSPFTDN

>PAC:15714975 pep:novel
scaffold:Aqu1:Contig13264:50611:51555:1 gene:Aqu1.216447
transcript:PAC:15714975 description:""
MEMDGNFTLSDRRDGIALAVVLTIEVILAAIANGAVLCITIIYQRKHWRQPSTIFFTSLIL
AHLVMMLLYLPFTITALAAGEWSIGRTNEQRIGTCFFSIFLYMYTVLIVLMTLAAISFDR
FLFIVKPHLHKRFMKLWVAVSLAVAIWILSAVLNVIPLFSFEELTYDDTFGPCYPSYLN
LAYALFIGIIFVTMIAIIVVTCTWTFCFTRKFLKDQSIAGESVYSAKKRRLFGIFGSML
LVYIICFTPGGIHLALIPIIDTPFGLYATSLASYHFITIANPLVQSYFRPEIKSVFVSAY
HKMSPVSVTVNDTV

>PAC:15714984 pep:novel
scaffold:Aqu1:Contig13264:99897:100877:1 gene:Aqu1.216456
transcript:PAC:15714984 description:""
MERNYTFTGEFSPEAVAGVLSIEMILALIANVVVLVITFYQKKSFKHSSTIFFTSLILAH
LALTLLYLPFTTITSLFAGEWIIGSTDDEKQGTCDFAFMIITSAYIMYMTLSLISIDRFL
FIVKPHLHKRFMSPRVALVLVIVWIVNSIFFSSGFIDESGIAYWYVAPLGICNALTISQ
AMAVIRFLVILILLGIIVVTSIWTFCTRFKFINNQSMIVGESVYASKKKRFLFGIFGSMLL
VYGICFIPGAFLSSFLAILDAPGTLIISLVLFFILALVLSVQSYFRPEIKSVIVQICR
KMMRKPNSTASKNSAVTRDTNVDSVT

>PAC:15714985 pep:novel
scaffold:Aqu1:Contig13264:104307:104864:1 gene:Aqu1.216457
transcript:PAC:15714985 description:""
MERNYTFTGDFSPEAVAGVLSIEMILALIANGVVLVITFYQKKSFKHSSTVFFTSLILAH
LALTLLYLPFTTITSFFAGEWIIGSTDNEKQGTCDFTAFMIITSAYIMYMTLSLISIDRFL
FIVKPHLHKRFMSPRVALVLVIVWIVNSVFFSSGFIDGSGIAYQYVAPLGVCNALTISQ
AMAI

>PAC:15716328 pep:novel
scaffold:Aqu1:Contig13317:77929:78861:1 gene:Aqu1.217800
transcript:PAC:15716328 description:""
MEGNFTFTGEFSGPAVAVFTVEMILALIANGVVLSITLYQWKSFQSSIIFFTSLILAH
LVLNLLNLPFTMIPLAAGEWIFGITNEEKRGTCFHAAMNWSGSYVLSFTLAAISFDRFL
FIVKPHLHTRFMRPCVALTLTIAIWILSAVLGTLPPFDIGHYSYFDKLGCLSLVGVDIAA
FVVILVIFLTVGTIFITSLWTFFFFFKAQSVIAGENVYTSKKRFLFGIFGSMLIIYGTG
YLIAALGFLLRIFIFLPYEFFITSHIVYSFVTVASPIIQSYFRPEIKSVLVSRCPLLF
VCCSCIHAVC

>PAC:15716337 pep:novel

scaffold:Aqu1:Contig13317:147680:148621:1 gene:Aqu1.217809
transcript:PAC:15716337 description:""
MEGNFTFTGKFSGQAVAAVFTVEMILALIANGVVLSTITLYQKKSWKQSSTIFFTSLILAH
LVLNLLHLPFAVIALAAGEWIFGSTDEEKRGCTCFASYLYWYIVDVISMTLAAISFDRFL
FIVKPHLHKWFMRPWVALTLTIAIWILCAVLGTLPPFINIGHYSYDVELGFCSIVGV DIAA
FVLILV IIFLVVGTIFVTSLWTF CVTKSYFKDQSVIAGESVYASKKKRLFGIFGSMLIVY
GTAYLIAALGFLLQIFIFLPYEFYVTNYIVFCFVTIASPIIQSYFRPEIKSVLVSRCPLL
FTCVCCSCVHSIY

>PAC:15716338 pep:novel
scaffold:Aqu1:Contig13317:148885:149805:1 gene:Aqu1.217810
transcript:PAC:15716338 description:""
MEGNFTFTGFEFSGPAVA AVLTVEMILALIANGVVLSTITLYQRKSLKQSSTIFFTSLILAN
LVLNLLCLPFNI IALAAGEWIFGSTDEEKTATCIFA AFVYSY TIPVIFNTLAAISFDRFL
FIVKPHLHKRFMRPWVALTLTIAIWILSAVYSFAPFYGLNEYVYNEQYLLCYQHSNSIIS
VIMFIVFLPCVTTAII VTSWTF CFARSFLKDQSVIAGESVYASKKKRLFGIFGSMLLIY
GICVVP SLLLLAFQQFIDVPPELFICIRVGFFFITIASPIIQSYFRPEIKSALASCCPLL
FYCVCC

>PAC:15716428 pep:novel
scaffold:Aqu1:Contig13321:92542:93519:-1 gene:Aqu1.217900
transcript:PAC:15716428 description:""
MKRNYTFTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQKKSWKQSSTIFFTSLIMGN
LLMTMSYLPFSIAALAAREWII GSTDEEKQGTCDFTAFVMIYCGYVTLMTLSLISIDRFL
FIVKPHLHKRFMSPRVALVLV IIVWIVNPLFFSSGFINGSGIVFYINN VGV CYAYS DSP
IAAAFRLSLII ILLFII VVTSVWTF CFTRKF INNQSMIVGESVYASKKKRLFGIFGSMLL
VYGICYIPGTFFFNSSI AKANAPDKFNISALVLFLLALIVSPVQSYFRPEINSAIVNIIC
RKMRKKRNRTTPSNASKTNTNSFDL

>PAC:15716430 pep:novel
scaffold:Aqu1:Contig13321:95007:95984:-1 gene:Aqu1.217902
transcript:PAC:15716430 description:""
MERNYTFTGDFSPEAIAGVLSIEMILALIANGVVLVITIHQRKSWKQSSTIFFTSLVLGN
LVMTTLYLPFTITSLAAGEWII GSTDEEKQGTCDFTAFV IYCGYVMLMTLSLISIDRFL
FIVKPHLHKRFMSPRVALVLV IIVWIVNAAFYSAGFINGSGIEFYINNIGICYAYATSP
IAVVFRLSLIVILL SIILITSVWTF CFTRKF INNQSMIVGEGVYASKKKRLFGIFGSMLL
VYGICFIPGTFFSSSLAKVNAPDKLNISALVLFLLALILSPVQSYFRPEINSVIVNIIC
RKIMKKRNRTTPSNASKTNTNSFDL

>PAC:15716431 pep:novel
scaffold:Aqu1:Contig13321:96385:97362:-1 gene:Aqu1.217903
transcript:PAC:15716431 description:""
MERNYTFTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQKKSWKQSSTIFFTSLILGN
LVMTMLYLPFSIAALAAREWII GSTDEEKQGTCLAA FVMIYCGYVMLMTLSLISIDRFL
FIVKPHLHKRFMSPRVALVLV IIVWIVTAVLNSSGFINGSGIEFYIDNVGV CYAYPTSL
IAAVFHLL LIVILLCI IIVTSVWTF CFTRKF INNQSMIVGESVYASKKKRLFGIFGSMLL
VYGICYIPGTFFFTSSIAKANAPDKFNISALVLFLLALILSPIVQSYFRPEINSVIVNIIC
RKMRKKLD PITSSNAIKTNTNSFDL

>PAC:15716432 pep:novel
scaffold:Aqu1:Contig13321:99445:100431:-1 gene:Aqu1.217904
transcript:PAC:15716432 description:""
MERNYTFTGDFSPEAVAAVLSIEMILALIANGVVLVITIIYQKKSWKQSSTILFTSLILAH
LLIILVLPFCIAALAAGEWII GSTDEEKGTC DVSA YILLYSGNIMYMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLV IIVWIAT ALFFSSGFINGSGTVFKYINN V GACYGYSASPI
MAAIRFSIIITILLSII IITSVWTF CFTRKF INNQSMIVGESVYASKKKRLFGIFGSMLLV
YGICFAPGTFLSSFFAIIDAPDKLNISALVLYLLAFILSPVIQSYFRPEINSVIVNIIYH

KMMKKLNQSYQTTSSNTSKTNTNSLDL

>PAC:15716433 pep:novel
scaffold:Aqu1:Contig13321:101088:102068:-1 gene:Aqu1.217905
transcript:PAC:15716433 description:""
MERNYTFGTGDFSPQAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LFMILYLPFTITALAAGEWIIIGSTDEEKEGTCDFTGFLIIYCVYVMLMILSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIWIVTAVLFSSGFINGSGIVYQYVENLGGCYVYTTGPI
ASVIRYLFASLILSIIIIITSIWTFCTFRKFINNQSMIVGESVYASKKKRLFGIFGSMILV
YGICFAPSVFLSSFMTTIDLDELHVFLVLLFLVVTLSPPVQSYFRPEIKSVIVDVICH
KMMRKPNSSDPGVTQDTNINYNITIGP

>PAC:15716434 pep:novel
scaffold:Aqu1:Contig13321:103086:104042:-1 gene:Aqu1.217906
transcript:PAC:15716434 description:""
MERNYTFGTGDFSPEAVAAVFSIEIILALIANGVVLVISIHQRKSWKESSTIFFTSLILAH
LLMLLVIPFSITSLAAGEWIIIGSTDEEKEGSCGFTAYITYCSVYNTYVTLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIWIVTAVLLSSGFIDGSLTYQYIDNIGGCYVGITSPI
ASIFRSSSASIIILITSVWTFCTFRKFINNQSMIVGESVYATKKKRLFGIFGSMILLV
YGMCFIPATFLQSFLLTIIDAPDKLIVSSLVLFLGLIILSPVQSYFRPEINRIIVDVICH
KMMHTPTPTDPNTSNNLA

>PAC:15716436 pep:novel
scaffold:Aqu1:Contig13321:108135:109154:-1 gene:Aqu1.217908
transcript:PAC:15716436 description:""
MERNYTFGTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LVLTLYLPFSIAAALAAHKWIIIGSTDEEKKGTCDNFNGFVILFSAYVMFMTLSLISIDRFLF
IVKPHLHKRGFMSPRVALVLVIIWIVNAVFFSSGFINGSGMVYQYIDSQGLCYANTTSP
MAATRFSMAMILLFIIIIITSVWTFCTFRKFINNQSMIVGESVYATKKKRLFGIFGSMILV
YXXXXIFGSMILVYGICFTPGTFLSSFLAIIIDVPDQLTISSVILFFLAIIILSPVQSYFR
PEINSVIVNIICHKIMHKPDHNLTVKRDASCTNIASFDF

>PAC:15716437 pep:novel
scaffold:Aqu1:Contig13321:111574:112554:-1 gene:Aqu1.217909
transcript:PAC:15716437 description:""
MERNYTFGTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LVLTLYLPFSIATLAAGEWIIIGSTDEEKKGTCDNFNGFIVLFSAYVMFMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIWIVNAVFFSSGFINGSGMVYQYIDSQGLCFANTTSP
MAATRFSMAMILLCIIVVTSVCTFCFTRKFINNQSMIVGESVYASKKKRLFGIFGSMILLI
YGICFAPGTFLSSFLAIIIDPPNQLIISAVILFFLAIIILSPVQSYFRPEINSVIVNII
CHKIMDKPDHNLTVKHDSSCTNTVSFDS

>PAC:15716438 pep:novel
scaffold:Aqu1:Contig13321:112825:114269:-1 gene:Aqu1.217910
transcript:PAC:15716438 description:""
MERNYTFGTGDFSPEAVAGVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LVLTLYLPFSIAAALAAAREWIIIGSTDEEKQGTCDFIGFIVQFSAYVMYMTLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIWIDLSDMLFGRFVSLSMIVGESVYASKKKRLFGIFGS
MILVYGICFTPATFLAAFLVIIGPPNQLIISALILFFLAIIILSPVQSYFRPEINSVIHL
KPKSILEMIL

>PAC:15716439 pep:novel
scaffold:Aqu1:Contig13321:117887:118867:-1 gene:Aqu1.217911
transcript:PAC:15716439 description:""
MERNYTFGTGDFSPEAVAAVLSIEMILALIANGVVLVITIIYQRKSWKQSSTIFFTSLILAH
LTLYLPFSIAAALAAAREWIIIGDTDEEKKATCDNFNGFMILYCAYNMLMTLSLISIDRFLF
IVKPHLHKRFMSPRIALVLNIVWIVNAFFSSGFINGSGMVYQYIDNVGLCYAFTTSP

MAGTRFSMIMILLCIIIIITSIWTFCTRKFINNQSMIVGESVYASKKKRLFGIFGSMILV
YGICFAPATFLSSFLAIIDSPNQLIISAVILFFLAILSPVVQSYFRPEINSVIVNIICH
KMKHKPGHNLTVKRDASCTNTASFDF

>PAC:15716440 pep:novel
scaffold:Aqu1:Contig13321:119695:121318:-1 gene:Aqu1.217912
transcript:PAC:15716440 description:""
MERNYTFTGDFSPEAVAAIFSIEMILALIANGVVLVITIYQRKSWKQSSSTIFFTSLILAH
LLIILVLPFSITALAAGEWIIIGSTDEERKGTCDVSAYILLYSGNIMYITLSLISIDRFLF
IVKPHLHKRFMSPRVALVLVIIVWIATALFFSSGFINGSGTVFEYINDIGACYAPVVQSY
FRPEINSVIVNIICRMRKKLNRTTPTAGEWIIIGDTDKEKKGTCGFNGFMILYCAYNMLM
TSLISIDRFLFIVKPHLHKRFMSPRVALVLVIIVLIVTAVLLSSGFINGSGIVYQYIDS
QGLCYANTTSPIMAATCFSMTMILLSIIIVVTSIWTFCTRKFIKIKKYQQQVKTYKDYR
NTTTVQYY

>PAC:15716509 pep:novel
scaffold:Aqu1:Contig13324:109378:110541:1 gene:Aqu1.217981
transcript:PAC:15716509 description:""
MNVTEVPGFQKGLFVFFWLISIGLNTLCSALLMIAVHKRKS WANILLLSIALTGIAAVLL
GMPLSIVSLFINDLLIDEGALCQYQVIVFNWYILMSFFLVVFISIDQYLAVLYPFMYNTK
ILRHPKRSLKIIIRILLFFVTSGTLSYSIIIGSFLSTIAVMTPSNICYDFLAVDTPSKIFF
IVNTIAMGLMILVILTCTILLAIKMYRMFLKAEDPKDTFQVQKANFGHFLLVIIIVFMAA
ASLFLVVHILYVAGYSVSVYLHYLSLCLVLSNSLLFPLIFILIRASVRQILKEIWKKLLY
CREDKETTGKRQDKAVQLKQLKKS

>PAC:15716748 pep:novel scaffold:Aqu1:Contig13334:5516:6466:-1
gene:Aqu1.218220 transcript:PAC:15716748 description:""
MSLFGNDSDGFGFTGNVNAPTYAAALAIEAVAGLVANFTVLAITLYQRNSFKQSSTIFFT
SLLLANLIMVIYILITSITIGTEEWIVGSTHEEKTATCAFFAYMSWNSYMTMSMTIAAIS
FDRFLFIVKPHLHKSFMKPQVALFVTIGIWLLSGVINTTFFYGLGEYGYASYFGLCSSLL
DRKGSNIAYLFIHAVIFMSIYASIFITSLWTFCTRRFMQSQSEIARNSVYVSKRKRFLG
IFGTMLLAYAIALSPTYINSIVGVFYDIPLEVFVISCIVYNSITIINPIIQSYFRPEIKI
VYKTIYTIKTKIRRQ

>PAC:15716749 pep:novel scaffold:Aqu1:Contig13334:6674:7678:-1
gene:Aqu1.218221 transcript:PAC:15716749 description:""
MSLLELNSTTFTATGEVNGPAFAAAFAIEGLIGLIANITVLAITLYQRKSWKQSSSTVFFT
SFLLANIITVMYMLVSSISIGAGEWIIIGSTFEERATCTFTAYVIWLDSMALMTMTIAAIS
FDRFLFIVKPHRHXYLMKSWIALIVTISLWVLSAVVNIAPFYSHDEYKAGIYDSQIGICL
KNFIILVTSWTFCTCRFMQTQSEMPGNNSVYVSKKWRLFGIFGTMLLAYIIIAVIPAYI
FGVISIFYTLPPAVNVTAALAYGSIVISNPIIQSYFRPDIKIVLTAIIKKIKLVTRRYQ
NTTQTDANMELE

>PAC:15716877 pep:novel scaffold:Aqu1:Contig13338:4914:5852:1
gene:Aqu1.218349 transcript:PAC:15716877 description:""
MDIHGLNYTLGEDVNGPLLAALAVEMIAALIVNTFVLVATFSQCKSLKLPSTILFTSLI
MIHYVIALIYIPSWLISAAYGEWIFGSTIQVKEATCKFAGFILNYTLQVKSFTLAAISVD
RWLFIVKPIFYKQYMKAKLAVVLAVIIWIGSCLSVATPFFGIGNYFFTEFGSCEPQFLGE
LGYSILMLIFVLTALCIIIVTSIWTCCTRRFIREHAQLADESAYVSKNRRIIGIFGAML
VAYGVCYTPGIIVIIASLFCDVNAAFAAVLVFFLTVIIINPIIQSVFRPDVKKVIVKLC
AMCRKFHHSPEA

>PAC:15717007 pep:novel
scaffold:Aqu1:Contig13341:69084:70064:1 gene:Aqu1.218479
transcript:PAC:15717007 description:""
MSFEHNFTTTGNVNGPALSAVLALETVTAFIANTVVL SITLYQRKSWKQSSSTIFFTSLIL
SHLVMVFLYLPLCVIAVAEEWIFGSTFEQQIATCSFAAYVIWYCVLVIIQMTLAIISFDR

FLFIVKPRIHKRLMRPWTALAFITIGIWILAAILNSGPFVGLGEYEYDDTYGSCVPLWQGN
NGYVLYMLIISMISITIIILITSIWTFCTRRFINDQSQVSGDSVYVSRKKRLFGIFGSML
LVYGICFLPSIISGGITTVVILPDPVYAVNMVTFQFITVASPLVQSYFRPDIKAAIISFF
ALFAPALKKWQGLTSRSHETSTSLPA

>PAC:15717374 pep:novel
scaffold:Aqu1:Contig13350:136964:139713:-1 gene:Aqu1.218846
transcript:PAC:15717374 description:""
MDEQRLEYLEFYNQSCNVSTINSSSSFGPPIAVIRIIGSILSILGSTSIIIIVFLTGKLS
NMEIHPLFSLAVGDFILSCLWLFGGSLWLDYQDRYSDIHPGLGLCYILAIISTTIVNMVT
SFLTIVYSLHAFIVMRQLSKSRGHISRGRTCKQHLITAFVYLVAWSLPLLLVLPVTESMI
GLDIANNACWCFIDFFNTRPGGGPNTESISDSDDLATIIIVYSGVTFVVTATAIIIALYAGT
LHMARKVLKHQKTLNSEINSSKVIKKLAGRAAAFIIIYILICGLPFLAGRIDVWKENTPLH
LLEKPDQITILFWQAIFGPLQGFLLNAIVYGWSRPEFRRLFVTPCKKLRRRMRVKDTHK

>PAC:15718112 pep:novel
scaffold:Aqu1:Contig13373:75281:76844:1 gene:Aqu1.219584
transcript:PAC:15718112 description:""
MFLPHYDYDHGNNLSADQGDVSPQTQDIGFIIALNISVGIVCLLSILGSTSIIFSIIYLYKE
LRTTGRFILLNLSVADLIVALANLLGAAMSPFRNVNDPSDINDSSSLLALSCKIDAFFG
LFATDSSILWTIVLLSYLYITLHCFRPSRSCFKVSMITICMIICWGLPLAISVWFISKNEF
GFQPGFSPGFCTFTGDNDGKDIYRPIVGYEMFLYPSIIIFLTITISIAFFCHAKCKKKPVEN
YHYIEHHLNSIKAAERKLLFVPIVFIFIRIWGLITDVTTFYLNNDQIATLRNSKISPALI
FMAGIGDSSQGFVNGIFFCLLTPPVRQRLLLLLFKCGRICRCYCCSRYETLVNDAYITPT
TSRSLTISYTNSTASRGGGVEGEGDGDNSTLSRSLGTISADISLYGSNEIN

>PAC:15718483 pep:novel
scaffold:Aqu1:Contig13383:203940:204863:-1 gene:Aqu1.219955
transcript:PAC:15718483 description:""
MSLNSTDFVLMGDLNSTTYAAVLGIEGVIGIIVNVAVLLMTLYQRKSWNPSTIFFTSLL
LSNLIIALWYFMSSIAVGAEWIFGNTFKEKNASCLILGYMFWNGGMIIVATLAALSFD
FLFVVKPYLHKRFMRPRVALILIIIGVWLLCSLINTTPFYGFVYRYQSRSGICSPSYEAS
GFFYVLYLVVVYSIIYFVIAFTSIWTFCTRRFIQNQVEIVGSSVYESRRKRLFGIFGYM
LLSYVIALLPSTYITGIISMFYQLPANVHLGTVVANGSFIIISNPIIQSYFRPEIVTVIKNL
WNKIRNT

>PAC:15718484 pep:novel
scaffold:Aqu1:Contig13383:206185:207896:-1 gene:Aqu1.219956
transcript:PAC:15718484 description:""
MSFNSTDFVLTGDISPTTYAAALGIEGVIGIIVNVAVLLMTLYQRKSWNQSTIFFTSLL
LSNLIIALWFLMSSIAVGAEWIFGNTFEEKNATCLVVAYLIWNCSIITMMLTAAISFDR
FLFIVKPHLHKRFMRPRVALILIIIGVWLLCSLINTTPFYGFVFMQDQAEIVGNVYQSR
RKRLFGIFGYMLISYLIALLPSYIDGAISMFYLPACVRLGFVVTYGSFIISNPIIQSYF
RPEIVIIKKNLWNKIDHGLVNFHPLDVRVDESLETLLLYIDNAIQYGEDIDVKVPKLED
DDNEDS

>PAC:15718485 pep:novel
scaffold:Aqu1:Contig13383:210830:211729:-1 gene:Aqu1.219957
transcript:PAC:15718485 description:""
MMDIMSFNSTDFVLTGDISPTTYAAVLGIEAIIIGMIANVAVLLMTLYQKKSWNQPSTIFF
TSLLLSNLIIALWYLMSSIAVGAEWIFGSTFEQRNATCLFNAYLLWSGRMIATMTLATV
SFDRFLFVAKPYSYKRFMRPRVALILVIGVWVMSSSLINTIPFSGFGVYGYFSLNGICTLL
YAYSGLYLIILFVVYAIIFVIIAVTSFWTFCTRRFMQDQAEIAGGSVYQSRKKRLFGIF
GYMLLSYVIALLPSTYIIGTLNMFYHLPAYVHLGVVYAGSFITSNPXXXXKSYSIIIF

>PAC:15719539 pep:novel
scaffold:Aqu1:Contig13412:154418:156225:1 gene:Aqu1.221011

transcript:PAC:15719539 description:""
MIDGQLNDKNNKLNKTSIDLHLFTTSGDNIKHQWDLSSIPSFSTACNLLRVHPYYIEQYKKT
FQTEFSKDKCSFFNPEAVAGVLSIEMILALIANAAGEWIIGNTDEEKQGTGCTAYIILY
CAYVMFMTLCLISIDRFLFIVKPHLHKRFMSPRVALVLVLIIVWIVNALFFSSGFIDGSGV
LFQYLDNSGACYAFTTSPFTAVIRFSLASIILCIIVVTSVWTFCTLGESVYASKKKRFLF
GIFGSMLLVYGICFTPTFVNAPDKLIISAFILFFLAIIILSPVVQSYFRPEINSVFVDIVC
HKIMNKSNTMSSSRQFTIV

>PAC:15721359 pep:known
scaffold:Aqu1:Contig13450:70950:73394:-1 gene:Aqu1.222831
transcript:PAC:15721359 description:""
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Adhesion like GPCRs

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>PAC:15724932 pep:known
scaffold:Aqu1:Contig13499:262316:269156:-1 gene:Aqu1.226404
transcript:PAC:15724932 description:""
MAATTSVIIPPLLSLLLLLVNQSQLSIASRLPPCTTFRNTCSKVFQLDLSAINSTDEA
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CTIKETEPLYSVISVKLDFGNCSYTFGLLQDGGDGNLCPADYDNGLLWQQSWPSLLPVF
KSCNDISERFSSNSYAYRNCTSNGIWTSTDISHCRLKPSYAQNAFFNIWYKFNPKFPNK
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KELKILSIYETNTTQAQIFRPNTSCLCDMEYRNSLTLPVCVGDGFGSPCNCNSNGNCKCSSP
RYVGDDGYYCTVDSDRDGFDPVPLDSCIENTSKYCRKDNCPYIHNPSQTNYSFCGCAAERD
RIWNLTWPD TQFGKTALQKCPNSTTGGIFFASRKCNASLGWLWPRTSNCSLSNWFYFKLF
NDTNYAVNHNLTDEERVAELNYLYGELIDSY SAPSGSNGGPTIGQPD LKKSPYSL LHIN
KMVDYTLKLLPSAEFDEYNSYTFIPDMVDVFDLLNEDYAEWKEVEETEGHHFGSTLLL
ENVENYFLYYTGFEKSVRIKRKNFNIMSDVYNLSSQVAEGDYVINSNLSDSYITLHIPEG
LLREKTANGIEPVSIISIQRSLDDFLSSDGNNTNDTKISSNVWSGQIGREGTVFSEPI L
ISFTA EKIDNETHNYVCSYWN TTSGQWMTDGVYTVGYEWDNRSYVVCSSYHLTAF AVL
VSVNGNNGGSNEEGTTDDSGDDDDDEHGSSLTSLNHKAMS IATYAGTAASVLCLALSFL
FFIAQYKDLLEKPHLFIHLNLI IALMLAYSIFGLGIELAKGNEVLCSV VAGLLHYFFLAS
FCWMLCEGIMLYLLL VVVSRLAKRWYFFFAIGWVTPLIPVSITMPVHYDKYTVKDSFGN
ITLCWLSDESGTIWAFVAPMLLIIAINVVFFVLIVRSLCKSKRMEKSKKMKATNL RQQTV
SLLKNCIILLPLMGFTWLFGLLAFD TDTYSLIFAWLFNILNSTQGVAIFFLYVVRNDK VW
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>PAC:15724934 pep:novel
scaffold:Aqu1:Contig13499:279323:283113:-1 gene:Aqu1.226406
transcript:PAC:15724934 description:""
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NEIEEIIIEEEDDEDYDDCEELIDDTFNNQDFRNSMKRIGTALRVSSNSKTKNATRLFEKR
RKVIRELVGNINNVSSIMDQEDVQILYEVMDS SFNISHVSSL SLSLSDKIGPMLLTNLKE
MNIVFGKAILSGGRIKNDYKFNGNNLVILSLFYDEDEGLSVKINLPRTALCQSMGMKMN

KRNNKKDDDDDEEDYDEDVDPDRYSNCFTPQFPISNDTTDVNGMFDLYENISITFNVSKF
 NNTNPMCHYWNPSLQNWSTDGMTTTLSSSQVLCTSNHLTSFAVLVDHSGVTSENDGPSI
 SPAEQIGFQVVGYGICIIISIIALLFAIVLLALLRKQLQKGPLLYVHINLSALLLALLVF
 VFGIELPR SIPWLCSVLAGSLHYFLCVFCWSLAEGIMLYILIVRVYGS LADR WYLLPL
 GWGLPIIIIVGISTGIKHDLYGTNDYCWLSTSKGMIWSFIGPMLFIIIIINIILLAMTIYQI
 MHSKSFKAAATGADPNLKKIDLVKTGLKGVLVLSPLLGITWVIGIFAFSQQTTFILWLFTI
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>PAC:15726423 pep:novel
 scaffold:Aqu1:Contig13510:653267:664006:-1 gene:Aqu1.227895
 transcript:PAC:15726423 description:""
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 TNLVACSMETIVSSDRGTFEWPETVSDSTVHISCPNGPSGATANRACTNNGAWESPNVTL
 CRAITLISNQFRNISKVNVTENVVSVVAENLTNLVVSTTDAADQNTDNIRTVSAILDQTA
 ILLSDPMIIMNVSSSELSMITKNTVQILDSLEEWAPAVVEIESNNVINSFERIIDALINQ
 DNFTNIMVVKNGIALAGESFQQAVFNGTEFTAASIDDTLEVDTQVGQDSTNGLTSNEIAS
 IRLPQSIISIIETDTIDVAFTLYNKSVLFPIREPPNTIVGSSVIGARIGKLTDTGKLPD
 PVVINLVLNTTGNITNPRCVYWNFTTAGGRGNWSTDGCNTTVNATANDLSVINCHCDHLT
 NFACLVDVSARTNGATEAPQYFTMTLEVVSIIYGVCLSLVGLILTIITLIIFEKLRAREAS
 TFHIQLCLSLIYMLIIFVVGINKVSVRAGCITVGVLIHYFALVSWMMWGAEALLMFQKLV
 IVFTDITQKYLIAVSILCWTLPLLPVVVTLAIDRDFYIYLYENGNGSGFCFISELIPFLV
 AFLLPVFIIILIFNVIIYVLVIRVAILHTVGKNKRMNKSPFTKSDRSSAYSDDTDSGSGFG
 GSGGANPFGGDDDKELLVEREDPGLSPEAQLQLQHDTSVEVEERERHMRQLETEILDINDIF
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>PAC:15726767 pep:novel
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 transcript:PAC:15726767 description:""
 MLLFLSTTLHRTLYDTRWSNITSNGHSSDDNALIVRIFACCMSSLSIFGALLIMLSYLC
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 TQAFFAQFFTVSSILWTLALLALYVYTLVLDSSRKL SLWIVRFGYLVCGMPLGLSIWFLV
 TRKLGKTKIGGAGWCSLRAENKEGNVNHFAVFFGNDIWMSTFVLILVLYTTLHCHLKDR
 MKEMKKYNSDTFSQHSDAKFLAIPFFLLHAGTSENMSHTLQHIVLYWMFIGDSSEGLV
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 YSVNRNMSSSASSITSSSDSEY

>PAC:15728257 pep:novel
 scaffold:Aqu1:Contig13521:116118:122705:-1 gene:Aqu1.229729
 transcript:PAC:15728257 description:""
 MCVATGSTLNGGQWVRAIDGNPVIHCHSNSDTPFRCDSLASPNASLSLYLPNGQALLPER
 EGFYKCCLP TGCLDPNTNVITANIFRWAQIAGIKFELLSDMTMLPQQYALHAIKIGRMNH
 TFLLAATWYYETGDTSSNLTSFGISHENVVRNRYT VTVTPASTPSNLSVTSGTASTISLS
 WNALGSIDADGYVVNVTIGTSIIQTVQIEGGNSNKTTLKGLASGTIYSITIRAYQQLLGP
 ASSAILGQTLPVVGVA VVKKSGQSI SFNCTANGIPTPTIVWMKDGQLIVPNKKRSISVQL
 SAGFHSNNSSNISQVTSNLTISDLTGSDNGSYFCRADNNANIGTVLNTSYQLAVIESPLT
 NFCLSSPCVNGDCQSLSDAYYCLCSEHTTGKNCQEKVTIKIKPKITEPPQTTTGELYSPV
 NLTKATGSPFPLILWYKDKKLFVNRNSNP SILVFAELTLNDRGIYHCEASNIIDGRKMS
 ANSSSVVLNITNVVQYKAEMHLSTNSYVGTNDMENTKQLMIQSNNYLSGSNISDTSLFY
 IKIQLNPDELSLGTNNDSL LVVVTLVTVQKGQGD KILLNGVRHVLNFIQQFALPTFVTTVE
 RFDGCP SNFTIIPSHSGNPNLTIIVWPETNIGVLAVVDCPCGTNGTSGGGKLQATRYCG
 GDTNGAVWDAPDVMRCNFSDLARTLCHLKDL PVEERINELEALTSDSSALGPTEVAASI
 SALVSATGELEGNITLT TTFLDTVDNILVVNQEV LQKSQESSNTSSRILDAIENVVGDIN
 ITNSSEPVVIARNHFAVLVQQIDLKELNESSQVFSVNIGDFATQNISWDDLSFGSNSVSP
 PTGSIQLPSNLLSSLSNNLSDDSKIA YAVFVTD SLFLRRKINYWTVGSIIISANVVGIGP
 VKGLKSPVNLTFQLNPDINGSFPQCSFWKQSLDNGYGDWSNDGCNTSVDPKYVTCHCDHL

TNFAVLLDVSLNNEPTERTELTFLDSSISYVGIMVSIVCLIIITIIISYLLSKKL RSSDHGQ
 LLLNLCFALLGLYLSFIVALHSKNINIFCAFSGAVLQYFFLVTFIVMAAEAIHLYIKLVI
 VLGRKIENYVLKATVVSWIAPVFVVLFCFSPDYKSYISDPPNFCRAFRAPFYIGMVVPFV
 I IYLFNCIIFVVMVSL LHKTHSLKLNDAKMKKDKDSKSF LKQQLIRAITLSILFGLGWG
 LGLLVTEDIYTSETLRDLIASVFVILTGFHGLFLLITYCLRSEEARHVWKNILFCGKDE
 FSKLSLSNLNKTWKKSPNTTKISYNLATSLKQDAEEGSQMRSEYETKKNETGKKEVHKD
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>PAC:15728351 pep:novel
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 transcript:PAC:15728351 description:""
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 KAYERNACIMDFSRLVSHGSDRVFNEIIYKYLKPSLVESYSQAGRFLAITQDYLYTCT
 SLFHRNDIEDCIIQLLNHCFLFEDEAHYLCYNGIQDNFCSQFGGDNQLRCYILLEEKILT
 SIVDEKPIGDLNSTDIDEVKAIVAGSSRRANYTNETLTQLNRIVDYFTL NESSVVSQNIDK
 QDANTFLSVISTLASKEESLALPENNETNSSTALLNDLAVMSKLIGSAVLTSNDQVEGNF
 AYSDNNIGLFLT VGSVEYLSGALKLNSTNSSAEINIPPASVCGFDYELSKNDGSY EYDEY
 PKICQGRPSCNISQNGFTYTCYDMYTIFGEC SKRIAIPRSCPSVSTSI AKLSLPGTLPP
 NMTIASNVINVQIVTRNEDSSVSNVHSLKDNASLHFKLAEPIKENFIPKCHFWNTTENWV
 SDVGIETLVLSVDVILCNTSHLT SFAVLVDHQGLIESASSSTA HNGTSIIPSTELQALSI
 VGYIGPSISLLCLIIALVIMIYLRKEMNVNFLYHVHLNLCISLLLGLTVFLFGLETAIHY
 DWLCSIVAVLLHYLFLCVFAWMLAEGITL FITVVHVWGMKLLKWQISLLTAWGIPLFIVA
 VSGIRHDLYGTDNYCWLSSQKGLVWAF LGPALAI AVINTIFLMVTMIQLVRVIRNKFDH
 RKNSKNLKT VKSAIFGAIVLFPLLGITWIIIGVFAVSQNTTVFLWLFTICNSLQGVF ILIF
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 SSYSLSDLIVSTSNENCINSELDTIAEEGDDEGVA

>PAC:15728352 pep:novel
 scaffold:Aqu1:Contig13521:513988:518699:1 gene:Aqu1.229824
 transcript:PAC:15728352 description:""
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 FRGDERLRCRIL IETRLEVSL ENQCANENNEGKCEKILTSIVDEKPIADLNFTDIDQVKA
 VVAGSSRRANYTNETLTQLNRIVDYFTL NESSVVSQNIDKQDANTFLSVVSTLASDEGTRN
 LRENSTNNSGAMLLRDL DKISKVIGSAVV TENEQIEGNYAYNDENIGFFLALGSSDTNYS
 SGGNIDNHIYILLFIVMNLALKLNKTDTTSPYMTAEISISATSICGFATTDESIGSGDDF
 DYYYDY PKICEGRPKCDIDGYIYDLYTIFGDCSKKLKIPNSCPSV VATS IADKLPLLLS
 DDLPSNMTIASLV LSSQIVMKNEDNSTSVTHSLKENATLNFKLLKPINLTEYIPRCYWD
 TVENMWS DAGIETEVL TNDEVKCITSHLT SFAVLVDHQGLIGSASSSSSENATSISSTEL
 QALSIVGYIGPSISLVCLIVALVIMILLRKKMNTTFLYFVHINLCISLVLALSVLIVGLE
 TADHYSWLC SIVAGLLHYLFLCVFAWMLAEGITLCIMVTYVFEMKFLKWQIFLPAAWGIP
 VLIVAVAAGIRYEQYGTENYCWLSTEKGLIWAFLGPALGVALVNTIFLIITVAQLVRVTC
 SKVDTNNSKTSKNFKA AKAIFGTIILFPLLGITWTIGVFGVSQDTTFFLWLFTICNSLQ
 GVFILIFHVLKHKV VLTWLARFPCLDRWIEVHTSAEASRRLSKQRLSVIHDPKLPKRRL
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Frizzled like GPCRs

>PAC:15725169 pep:known
 scaffold:Aqu1:Contig13501:51559:53230:1 gene:Aqu1.226641
 transcript:PAC:15725169 description:""
 MSFFYSLYLVSFFFIFYTPRV TGQCSSRTSLIQEATCNYNYTLRNLSIYPNQVINETTEI
 SEVVTLVNALDSSLRSCSSNADRSGFICAAFFPSCDSGYGPCSSFCKKIRQDCSNTLPFL

PSTVSWIFNCTRYEPNSPCIQPIISIEPTSSSSSTSSIVVISTPLPSQTPSTTPSTNESSV
 GCPPPSSSYTDMGMSFTKGWIATWSTLCFLSTSLTLLTFVIKPSRFEYPWRPIIFLALC
 FNIHSLGYFFSLALGRGIITCPGNYYISSSSKWSWSHIPCLLNFGLLYYSMVSAFLWWLA
 LTLSWFLSAVFKWSNESVGR LAPFFHVTAWVPLMMISLVAAQVISADELTGTCTFIVRD
 DSNATLFGLLIGVVIPLLLFLSIGLLFLIIGLISVFRIRFLHNKGRQKESIVLEKLMFR
 IGIFVAVYVLPAGAVISCYIYELAKVPDWTNLNEAESCDGGCQKASPIVFIIRIFMFLM
 IGILTGVIWWSKKTLD SWRSLGNSSCSNGSSGKNDQEPMTKHVRSFSTVNS

>PAC:15726883 pep:known
 scaffold:Aqu1:Contig13513:757187:759285:-1 gene:Aqu1.228355
 transcript:PAC:15726883 description:""
 MSLVILLFLAVVNLSTFMGQPTRPVSTLPPPGTCCQIPITGVAMCLYVPWGNASFPNLREHR
 TQSEANTEVNVFQPLVTHQCSNAIVHFLCAVYTPACVEGPEGTVTLKPCRNLCHVRNTC
 EPLMQQGGLDWPPHFEC SNFPESTGSTSDIDSLCFKVPINVTIPPELLPSATTSSGTAVQ
 PTAATSSTFVSSMTLGTTPITATTIPSSQKCSPDLDLRRLGHEFANSSYTFASIPNCAV
 PCEGIFFTETERNV VAPAFILVCALICIGFTLFTVGTFMIDRQRYHYPERPVIFLALCYL
 ILSLAFVVGAIVKLSDPKSSFACSDTADSQS FVFQDLPNSTPTFHSASCVILFIITYYFQ
 MAGAIWWVILTTLTWFMASTLKWGEAEVERPWLLYHIFAWCIPAILVILLLSVRLVDGDQL
 SGICYTGNSSSVSMGVFVLLPLLLFLILGIVFLVIGFGSLVHIHLQISKDPNKSRRQL
 IIRILVYALLYI IPTFIYIFLCIYQLAERN SWEESYIKCPPSSFNCEPESKPQFTALLMR
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>PAC:15726501 pep:known
 scaffold:Aqu1:Contig13511:286703:287570:1 gene:Aqu1.227973
 transcript:PAC:15726501 description:""
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 VLSCLSIITGCIILFLYLINYCKIKHPEAPIYYIAGLQLVISTMQLISGLYGTFNMSST
 NSSSDSEGLHCDDRYKNHFNESILLQDGGDNPFCLTIFAILYYSFLSILSWWTVITIEWL
 VTSIKRKITKKKYLYIISHIAGWSIPIPLFTAAYLNAVSGSTTEMTCWISRRESLYQL
 AFIIITPLSDSGLIARKGDIVTAYISLQGMKKSPYLS

Other GPCR families

cAMP like GPCRs

>PAC:15717951 pep:novel
 scaffold:Aqu1:Contig13368:29673:31585:1 gene:Aqu1.219423
 transcript:PAC:15717951 description:""
 MDESNTSSSSSSCDEFDDL DYKIVSGVRAFSAFISLVSCLIVIIILIFLFRHHYFIQRL
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 GLYRTVFKQKPKKYLELG YICISLLFP LLPACAPFFGFMYGKSGPWCWIRERSDNDKET
 VGIIFQFVLWYIPLVLLTVST SIVYIAMFCKVHKSIESHWQGPYDPELFLHKGRLRKVVK
 ILLAYMPILFLLINLMSLPNAIQWAIGKEPILALWILHGVFPFRGALFAIPYLFHTDTR
 QQIKQIGIRGAVRERFM RKKTVTSYPAKECNFSDSLTFPAAADTTYERNKPYRNPSLRQQ
 ELSQRYSIPTIPQVATL SENTTSTSISTYSTDLGTHSSLSGLLTSRNAADTHSECESRNQ
 QNE

>PAC:15717955 pep:novel
 scaffold:Aqu1:Contig13368:37889:38992:1 gene:Aqu1.219427
 transcript:PAC:15717955 description:""
 MANNSSIDTSCFPTSHQLEIIGWVSIGTGGASLISCILILFVAILFQKYRGTTQRVILYL
 TITVFLNSILYLLHGIR TILEGATDSDFCIALAFLDQVISWMEFLAILCLTVDFVKSVE

LKFNTERFEIVYALVIFILPFTFNWVPFLGNTYGYGGTNCWIKQYKDMNCSETDKLGLAF
RFGlyWIPFYIIMTFVIIAYFISLFKARRRITQYSATTPTFSEQTIKELLSEVRQYQLY
PFIMIVIFSLGIISRIAEAVDDGKNFFALRVFHVVMMAIQGPVIAIVFTMDYDTRKQICN
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NKKNEVI

>PAC:15721723 pep:novel
scaffold:Aqu1:Contig13456:118682:119488:1 gene:Aqu1.223195
transcript:PAC:15721723 description:""
MATFCIVIALFIKAVCGRTTSQFEFGYVLIIFVFPLIFSWIPFYDAYGPDDMFCWIREV
NLSDCNNYFKIGMILRYTLYYVPLTLLMLLLVALYIPAVIIAHKKKSRWSGNFDPEAIAI
RRMIAMEIRPLIYYPLIVLVINVFPLLKQLYATINDATSSEHDGLNHNLTYYFTLSVISY
VIYPFQGVLVTLAFTLDPETRKLLTWKRFVAAFLQTCCCRSRGIVRSYSIVHGRSDSLNY
GSTSRDRAAVTQDESCDPDGLHMKLNWE

>PAC:15721727 pep:novel
scaffold:Aqu1:Contig13456:123609:124673:1 gene:Aqu1.223199
transcript:PAC:15721727 description:""
MSNSNESNETDGPDLSCFDVFSDFRYTALAVMNIVFSISSILCLLVAISIIVLFKKYVHF
SQKLILYLCIASLFYAVSNCFNVTPPDVATNTASRGYCVVMGFLDQTVYWWMINCVAIIM
IDVFIRVAFERDTQKYKIPYIIIGILVPLVISWIPFLYLSYGPAGIFCWIRNKNYEDCST
FDIGNYFRFSVYYIPFYFLMLVLAVLLALSCLCIARRKRKQWITGNLGKETKELQKKIASE
IRPLLGYPILFMIISIFPLISRIYDATEPDEGDVFYIILFVLLVTFYRLIGVTVSLIFVL
DQETRKLHNKKEIRAAAYMRWRGLEKRHVTSYKFKVGQSDSFIDKSTAMTEENKQ

>PAC:15721726 pep:novel
scaffold:Aqu1:Contig13456:122275:123321:1 gene:Aqu1.223198
transcript:PAC:15721726 description:""
MSNDSSSNGTDQSCFDIYDDHFFIGLAVLSVLSIISSIFLLAAIALIVLFKKYVYLSQK
LILYLCIASLLFSFSTVLNVTPADAHTNPVSKAYCIIMGFVDQVFLWWQINCVAIIMIDV
FIRVFERNTRKYKIPYIIIGIVAPPLVFSWIPFIGLSYGPAGVFCWIRDREYENCDFVNL
GAILRFSLYYAPFYALMIGLAILLVITLCISRRKKQWMTGNLGKETIELQKKIISETR
LIGYPVFFMVICITPLIFRIYGIFKTDGTIYFILSYLLVIVYRLIGVIIALIFALDPETR
KKLNCVEIQAAIQRWKGKEKNAVVAEAEIGRSDSYSREKAIKIEKDT

>PAC:15721725 pep:novel
scaffold:Aqu1:Contig13456:121093:122136:1 gene:Aqu1.223197
transcript:PAC:15721725 description:""
MEFNSSTNCTMLDNEKYDGLVVVQIIFSTVSCVLLLCMIGLIVLFKEYQFFSQRLILYVA
VCSLIYSLINSINFFGREAQNASSALEDLCAVGGFFNQASFCWELMSVTIIMIDIFIKIV
FKRQTEKFELFYVILIIIFVPLSFSWIPFIYKAYGPAGTFCWIRERTFNNETYCPFWHGI
YLRFFLYYGPLYILFFALFILILSTWCIIRKRHKQWRNSQLDYQLVHLEQILEKEVRSLF
AYPVIFIVVNIIPFAHRVYGIYSTDITYFVLSLITVILFSTQGSIIIMIAFLSYPETRKK
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>PAC:15717952 pep:novel
scaffold:Aqu1:Contig13368:32110:33159:1 gene:Aqu1.219424
transcript:PAC:15717952 description:""
MSNNSSGVDLSCFTVYDNDGFVAVVAVRVALSIIISILCCLGMLLIILLFKKYLFFAQRLLI
AYLAIATLAYSVVSAINVEGYKAYRNDIAIKGYCVFTGLLEQVVSWWVLLAISCIVFDLFFV
KIMLKRETERFEWVYIIIVTLVTPLITAWIPFINLAYGSSGAWCWIRGNDYDDCSSFTFGV
VLRFLVLYYAPFYILMCALLIALVIVFVRLRKQRRSWTGNFDPTVLALKKKMSQEVFPLIS
YPIIFLVINIIPLILRIVNAVKSNEPIIALWFLSTIVFSLQGAVVMLAFALDPETRRNLA
PMQLLGAIKRQVTREGQVNEYEMGDDNEGEPEVVNSTSISFPSYPDEDQ

>PAC:15716961 pep:novel
scaffold:Aqu1:Contig13340:36565:38756:1 gene:Aqu1.218433
transcript:PAC:15716961 description:""
MVNFPCPLFPNNTGYELSVVDIRVSVSCFSLGSI FVIGLIWLFKKYKFFTQRLILYLSI
ASLISSIAIYLGRFDYGSDNKQHLCIFTGFLLLYSDWSVLLSTIGVTANLFFKVT CERLS
NKYEFIYVMLSFGVPVLF IWIPFTFDAYGPSGAWCWIRNKNVTDCTPFIKGKIIQLLVWY
IPLYALILFLFIVYVYIAARVSYRVRTWQGLYDPQVQRQRILMREEIKPLMWYPLIYFLV
QLFPFINRIVYNVTDNAYIGLFLVHLVLTSP LTGVLIAFAYALDKETLKRLNWN SIKASLR
FRSTSKI VTAYS AEETFE EEELEATPRSTYFSESSEGEDENKRLVSTRID

>PAC:15722414 pep:novel
scaffold:Aqu1:Contig13467:307811:308695:1 gene:Aqu1.223886
transcript:PAC:15722414 description:""
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TILALLYSVATT FQWVSSSAIDEQPGGEQGCKAVAFFVQYSSWSLLVFTFLLTLILFITV
YKRKEPHYKRWEIGTLLASILSPLITVWIPFINDSYGLSGIWCWIRSHDSTNCTVFLPGV
IEQIALWYAPLSILMIASSILMFMTIGKYIYLVFKPCGYQTIDADLRYQNSFKDY SPLV
YPIVFFSLNIIALSSRIASTQYVFPKGLLYIHSIVDPCWGLIASIATIIYSVKF

>PAC:15726659 pep:novel
scaffold:Aqu1:Contig13512:397833:398765:-1 gene:Aqu1.228131
transcript:PAC:15726659 description:""
MIFCRLFTLLTHRLIIYMLLGIFFYSFIVAAQCMNYWLN IWKGEHAVVCIVESYFTEYAC
WVMLLSVLMVTLHLTMVLF PKFHIKMGRLEPFYILFPWLFPLLVAWIPFVHNNYGISGS
WCWIRLYNNNCSLNKEGMIEMYAVLYGELFVGLILNNIALIIIFVTLCKRVYCNTT CPNY
RKTLKQTLPLVIYPISYQLFTWFAIANRLNQALNKGSGGTWLFYMHAF FGASGGFFAPLL
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EIEREYEIIN

>PAC:15727835 pep:novel
scaffold:Aqu1:Contig13519:507890:509017:-1 gene:Aqu1.229307
transcript:PAC:15727835 description:""
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RLAIYQVLSAMLYDAVLAL EVVFINYDTKKS VYYPVCVVEAF LIEYSIWIKLLFTFCLTF
HLFCFSVFHVNLNRLEIVYILVSTLGPALFTWVPFVNGLYGLAGAWCWIQNWKGDNALKK
LPQGEIEQYTLLYGPAIFCLLLCGVAVVIVTAILVHRAYNCNCCNNKI HDDDDNENQPLL
KEQLTEQKKKVLREMLPLVSYPILSLMFYIPAFINRLVGSISQSPNFISFMWSGVSLPLI
GLLAGVSLIVHIFILEHPKRRSTIKRRQLVDVTQRIKSINDVFTTDTVASTAAKTHFEV
PPESAIDEELNPSMN

>PAC:15721256 pep:novel
scaffold:Aqu1:Contig13448:35351:36343:-1 gene:Aqu1.222728
transcript:PAC:15721256 description:""
MEDDSPCNSSQAQFSNQKAILLYIYGGVGVISTLCCVFALIVAVRYRFYQDIVQRLVLVY
QLIAALAVSLICAFDII FVNYHKNPVYQPF CAMAAYFNTVSLWTKIGFTFWLSLLLFIC
LVYLKQPKDVKKLEPLYILTSFGIPMLFSWIPFANDLYGISGAWCWIKNWEGECANKKIL
LGTIEQYALFYAPATVFFLIDAILITATVIVLLKRIRRN NVSEEQLLLGENRKQKQLLRM
ILPLSVYPVVSIFLYIFPFSNRVYSIIDDKPIFPLFILHGVTEPLWGCCVGIVVTVHICI
AKSKRSSSGDTGMRSVTDHYTL PKDSMSFE

>PAC:15719005 pep:novel
scaffold:Aqu1:Contig13399:199087:200235:1 gene:Aqu1.220477
transcript:PAC:15719005 description:""
MSGDCPNGSDLTSEEKRIILSVYGGEGILSATVCLTALLMI IKLKYYKDTVQRLLLWQLI

AGLGLSLYNMLNLLFINYDEETSSRAYTVLCSIVGYIGTVTFFVKIAFTLWLTIFLFRCL
VCLKDPKELSKMEILYVSTSLGLPLLVSVPFIHHSYGIAGAWCWIKEWKDDCASDEKLV
LGVIFEDAFYSSGAVIALTNAVLTITITLSTVLCRIRCSCVGSSESSEKEQLLETVQLKHKN
LLKKLLPLIAYPLVFLFLIIFPLTNRIYGGIGKRISFPLFMLHAAVEPFWGLFVGVAIIV
HIAVIEYKKKTKKIHFVKVPVVTGVQSMRRYNALSPVDDAYTVDTVAATSAKTTFEPSTES
IDNCSTDDNINGSIVSTDVYK

>PAC:15717950 pep:novel
scaffold:Aqu1:Contig13368:28057:29224:1 gene:Aqu1.219422
transcript:PAC:15717950 description:""
MIGGADIPEDNVIPICYKFDNSQARRIGVARAASGISTLIVSLVAIIVIILSMKAIKQYPQ
RLFFYLTLATLIQAPTFTLEVLSVSYNRSESEQLPLCSIAGVYTMYSWLQNLIILWISVY
LVRVIVLRLTVYNKKLEVFLILFLVLPIPGALIPLIKNKYGMVGAWCWIKDFNSTDCVR
HDNLGIAYQYTLWFIPVMLEVVIIAIVTVLIGAVLCVRGFIKKYVLFQSEYRKLRLDSI
PLLCFPLFFCSISCFELILYWSSSLDAEPKYNLWMLNAILTPCKGILMIFGYLIPMIWIRI
KDYRAKKGRLVLRKEDWRSNNSSFLDVTVSIRFQSSGGEDHYGSVSVYSTEIKN

Ocular albinism (GPR143) like GPCRs

>PAC:15722473 pep:novel
scaffold:Aqu1:Contig13468:153476:155508:1 gene:Aqu1.223945
transcript:PAC:15722473 description:""
MASPHASSFMCLPFDSMREVSDAYITYYGVCLGSGCIGTLGSMFLYQVLRGAAAKSTSK
TQKNILINLAFADLLADIGVIGRSLYYMVYWRDHDLTIDLRDRLPQAITGAFTESWVVF
WYLASYFWTFFFAVDIYTAKHKGRWRLWCshmvtwlyCSLLAATGTLALWACAPPLECAV
DKYCIUGHFLCTFGPILIFLVSLPVFYFSILKKIIDEFKDDGHAEVREEREKKQAKKKIL
LFIIVFYFCWLNVNVDGFILVIYHLVEKGALAPSVRQTFLYKPAYIYTVWIIIEAAVNPLQ
GLLNAIAYGNACQSVHECYVQVKAKLTASLSHQASFSGEHIEVDFREGRGSVWTTQRKRV
LSC

Intimal thickness-related receptor like GPCRs (GPR180 like)

>PAC:15717891 pep:novel
scaffold:Aqu1:Contig13365:154501:156037:-1 gene:Aqu1.219363
transcript:PAC:15717891 description:""
MSSFMLFLLLFLSSSLHLAFSLRIKGSYDVSNETLHKEGQMKYKFLDKFGIFKGDVNLV
GSVNITGDLLFAFIKKKVWDKFHPGSSCDQLQTQSLRYNNRFVQPLPPNPSSDLTPVSS
SSSPLSPSASHSISMNTEMNESTDTEFWFAVFIYCRESNNAWMIPNDSLSSLSYEIFIVNA
NHDHNNDTSPFTRQFPNGEKGFLFTYLLFSVFYVILIPVHLLSHLKYTIKCRTPQIINLF
SLALVFEGINIFCGLIHYGIYAHNGYGAPPLNYMKTFFNLVGDWFLIIVLVLIAGGWMVT
LRTVKWRLASFIFISLYIFVTIIYYIATVIYMNVPWDTLHPLQEWPGGIYLFARSLLL
YVWYQIYHIHQEETLQKLRLYRALFGIFTVFWYLPITVFIVTLINPVVSWVVLINIMN
FMNFIVNVVMVALFCPFWSEHYFQFQFNVETSSMTSALMNSSSYTKKYQMMSGNSYDKRE
DKDLIL

>PAC:15726074 pep:novel
scaffold:Aqu1:Contig13508:509929:511865:-1 gene:Aqu1.227546
transcript:PAC:15726074 description:""
MAFSWIFLVVALLHFLFIETRAKVIAGVVSSGQAWSENGTFITKFCFHDRRALFEYETNI

SSNGRWYFYLLDDHWSDSLAEETDCRNKIAKARFSVGISATRGQQLVNQWLRPHFWYVYAD
PNTCDESPPTEDLFIGYTTLTFLNPDSEGNANDHFGEDEKDLRMTVKEVQLVKRYPKVILV
LWEQSYEESHYTYHVHENLPGFLLVCLRIILAVLFGYNLQSTLSKERSTLRKDFYQAFAI
ICYLWFLSFPMLMLIAMVLPEYWRHRVSHYYNYQYFSHE

Lung 7TM receptor like GPCRs (GPR108 like)

>PAC:15721385 pep:known
scaffold:Aqu1:Contig13450:242450:247434:1 gene:Aqu1.222857
transcript:PAC:15721385 description:""
MLWQPVNNLLINAHQEIPRPLIGVVSHLSYVSKSLSSSSVFALLLSSFSMLRSVFLLLCC
LSLSLAVPDHGHNKVVLFNNTQTRSGCTSLTMAGGSRIRVSLYNANMSAHEAVITFKITL
YESQCEAIDKKNCAIRTVDEIVMTNTQVFKVTSGRDYINFHSQKKPSSAANSTNTKNGTA
TTASKRSAASTEVTAAPTDGATTKAPTDGATTKAPNDGTTTKAPNDDTTTKAPNDDTTTA
APTNGTTTTAPTTPPTEAPTTLINNASSVPDDPEWATFTTNNSGVFDVVIEATAMKN
DINFSLAFHVDMMKNKYGYLSLVDYPAMIVYSILMILYIFYAILWLVLMALEYKDLVRLQF
WILAVILLGFLEKVFFVAEYGTANGGIDSSGLIYVAEIVSAAKRALSRLIIIVCEGFGT
VKPRLGHLLTKVFLGFVYFIVAFIDGVLRAKSGIGNHGLTMTLTFGLLFLDGTGIVYWI
FSALINTRNLRVRKNTVKKLALYNHLGYALIAIVIASLTFIIWQFIYITRSNCTNDWREM
WLIECFWHMLFCFMLLIVMI IWRPSANKLRFAYSPVSNNGDSDEEEQGANKNFETVKMRPV
SGKSESTKQQLTSMEAEEDLKWVEQNLPTTAIDKAAQMVLDSDEEEVMTTRFEASKLN