>Zebrafish\_Alpi\_Chr22:41,820,800\_NP\_001014375\_ENSDARG00000015273]

MCLVYGRAPGALLLLLLALVLNTSCSLDSAAEWEKDPAYWNDQARRTLQTALTLPLRVNRAKNIILFVGDGMGVSTVSAARILRGQMEGQSGEETILAMDTFPYLALSKTYCVDKQVADSASTATAYHCGVKANAKTVGLSAKAVAYECNTTFGNEVFSVLHRAKAQGKSVGIVTTTRVQHASPAAAYAHSVSRKWYSDADVPSEARRQGCKDIATQLVTNTDIDVILGGGRMYMTPKGTPDPEYSSSSHKGDRKDKKNLINVWLNARKGRNAQYVWNKEQFNAVDVKTTDCLMGLFEPKDMRFEVFRNRTRDPSIVDMTEKAIQILSKNPKGFFLFVEGGRIDHGHHDGVAKLALTETIMFDRAIQRASELTSESDTLTVVTADHSHVFTFGGKTPRGNPIFGLAPKQAEDDLPYTSILYANGPGYDHVNGTRGNVSVLDYYDEEYKQQAAVPLESETHGGEDVAIYAKGPMAHLFHGVKEQNYVAHAMAYAACLEPYTNCPLDLYSSAGWKTPLSLTLISLTGVFWLVLR

>Zebrafish\_Alpil\_Chr22:41,823,911\_NP\_001020359\_zgc:110409\_ENSDARG00000053774]

MAKTQALLLIGIFASAGFDGCFSVVPEEEKNPNFWYVKAKDSLHASLSMTFNTHRAKNLILFLGDGMGISTVTAARVLKGQMNKKTGEESVLAMDTFPYLALSKTYNVDQQMPDSAATATAYLCGVKANYGTLGLSAAAQREVCSSVKGNEVKSILHQAKMAGKSVGIVSTARVQHASPAASYSHTPERGWYSDKELTSEAVAGGCQDIAVQLITNTDINVILGGGRQYMFPRETTDPEYSTVTGSRKDKRNLVDEWLKNRKNAQYVWNKQQFDAVNEDKTDYLMGLFEPKDTRYELERDPKMDPSLTEMVEKAIKILRKNPNGFYLFVEGGRIDHGHHAGQAKYALTEAVEFDNSIERAGQLTSELDTLSVVTADHSHVFSFGGYSYRGNPVLGVSYAKGEDGKSFTNALYGNGPGYQITNGTRPDVNESVSGRDDYLQQAAVPLDSETHGSEDVAIFAKGPMAHLFHGVQEQSYIPHAMAFAACIEPYSDCQLHDSGVYTQFSVAVLLFSLMSSITALI

>Zebrafish\_Alp3\_CABZ01061890\_ENSDARG00000039048\_Zv9\_NA903:29,242\_ENSDART00000024841\_YeYang2]

FAVRVSVVCFLLTITSGSVEEENPEFWRKSAQNTLRSALSRKINTNVAKNIVLFLGDGGVTTITAARILKGQLQKHSGEETVNDTFPNVGLAKVYSVDFQIPDSAATATAYLCGVKTNLNTVGVSAAARNGVCRSQKGNEVTSILRWAKDAGKSVGIVTTTRVQHATPAASFAHSASRTWYSDADLPASAATEGCVDIATQLLHNIDIDVIIGGGRKYTPKGFPDPEYPSDASAQGQRRDGRNLIQDWIQKEGKVARYVWNKTDFDAVDPEKTDYLALFEPADLRFDVERDHSDPSISETTDKAIQILKKNPKGFFLLVEGGRIDQGHHSSRASAALHEAVALDEAVSRGLELTDEEETLTIVTADHSHAFTFNGYPFRGNSILGKSPIFASDFLPYTTLYGNGPGHKITNNKRPDIRKVDTADKDYIQQSAVPLDSETHGGEDVAVFARGPAHLFQGVYEQNYIPHAAYAACIGENQQHCAITAKPDENPDTSTDPGNSAQNPDYTFTILISTLMRILLH

>Zebrafish\_alpl\_ENSDARG00000015546\_Chr11:28,845,674\_YeYang1]

MWECGCFLVLWSELSVVWHPWNVKIRKRRLIDNKMKVVQLLILSCLVWEGKTKVQFPEQEKRPDYWRDFAQRSLKDALKLQELNKNIAKNIILFLGDGMGVPTVTAARILKGQLSGQNGEETQLEMDKFPHVALSKTYNTNAQVPDSAGTATAFLCGVKANEGTVGVSAAAVRSQCNTTQGNEVTSILKWAKDAGKSVGIVTTTRVNHATPSAAYAHCVDRDWYSDADMPNEALQSGCKDIARQLFENIPDINVIMGGGRRSMYPKNTPDVEYPGDKKQNGTRKDGRNLVGEWIDRVKEKRGYYVWNKKDLLSLNPNNVDYLLGLFEPADLNYELERNTENDPSLTEMVDVAIKILKKNERGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDRAITRAGLLTSEYDTLTVVTADHSHVFSFGGYTPRGNSIFGLAPTLSDVDQKPFTAILYGNGPGFKLVNGARENVSTVDYQQNNYQAQSAVPLRMETHGGEDVAIFSKGPMAHLLHGVQEQHYIPHVMAYAACIGQNKDHCRTNSGSSSYFSHISPALLFPLLVKWLLC

>Stickleback\_Alpi\_VIII:10,684,744\_ENSGACT00000011847\_ENSGACG00000008915]

MPTAKCRANHHLLILLGPILLAVGRSAMESQAALYELEREPAYWDAQAKATLDAALKLRPREHQAKNLILFLGDGMGVSTVSAARILRGQMEGRSGEETMLAMDTFPYVALSKTYSVDKQVADSASTATAYHCGVKANAKTVGLSAKAVAYECNTTFGNEVFSVLRRAKAQGKSVGVVTTTRVQHASPAAAYAHSVSRSWYSDADLPSSAHQQGCVDIATQLVTNVDIDVILGGGRMYMTPKGTPDPEYPTSNSRKGDRKDKRNLIDVWLKAKPNKKSHYVWHRKEFDEINVKATDRLMGLFEPKDMRFEVFRNRTRDPSIVEMTEKAIQILSKNPKGYFLFVEGGRIDHGHHSGIAKLALTEAEMFDRAIQRAAQLTREHDTLTVVTADHSHVFTFGGNTPRGNPIFGLAPKNADDKMPFTSLLYANGPGYVHINGTRGNITMVDYYDEEYMQQAAVPLDVETHGGEDVAIYAKGPMAHLIHGVKEQNYVAHVMAYAACLEPYKNCPPHPHSHTSSGCATPTSSLLFGLLSFLWLLR

>Stickleback\_Alpp\_VIII:10,677,035\_ENSGACT00000011789\_ENSGACG00000008908]

MASIRELLFTGLFLLISVQWTVSISEEELHASYWNNKARQTLHTALNVQRNLKRAKNVILFLGDGMGLPTVTAARILKGQLAGKSGEETSLVMDTFPHLGLSKTYNVDQQMPDSAGTATAYLCGVKANYGTLGVTAATRRNDCSATYGNEVESVLSRAKKAGKSVGIVTTTRVQHASPAANYAHTANRDWYCDSDLTPEAIQNGCQDIAYQLVNNTEINVILGGGRRYMFSRTTKDPEYPTETGNRNDGQNLVEGWLKNKKKAKYVWNKVDFDAVKPSNTDFLMGLFEPKDCRYELERDPSMDPSLTEMTEKAIKILSKNPKGFYLFVEARGRIDHAHHGGTAKKALYEAVEFDRAIGRAAELTSELDTLTVVTADHSHVFAFGGHSARGNSVLGVSRSKANDNKHFTTAVYGNGPGYRNGTRPDMNETMSSDNNYLQQAPVPLDSETHGIEDVAIFAKGPMAHLFHGVHEQNYIAHVTAYAACLEPYENCELPDHAGSIHPSLLLLLMGLLFLSLCNV

>Stickleback\_Alpl\_ENSGACT00000006064\_XVII:2,448,443\_ENSGACG00000004517]

MKVIALLVVGTSALISGSFGKPQFPEQEKDPKFWNTWAQRTLKSALTLQKFNTNRAKNLVFFLGDGMGVPTVTAARILKGQLNGQSGEETQLEMDKFPFVSLAKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAAATRTQCNTTRGNEVTSILRWASDTGMSVGIVTTTRVNHATPSAAYAHSVDRDWYSDNEMPAEALKNGCKDIARQLFDNIPNIAVILGGGRKYMFPKNTSDVEYPGVAKHSGTRNDGRNLVQEWIDGKKAKKGHYVWNKKQLLSLNPNNVEYLLGLFEPADMTYNLERNTDTDPSLPEMVEVAIKILRKNPKGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDKAIGLAGLMTSVHDTLTVVTADHSHMFNFGGYTGRGNPMFGLAPMLSDIDQKPYTSIIYGNGPGYKLVNGGRENVSTVDYQENNYQAQAAVPLTMETHGGEDVAVFAKGPMAHLLHGVYEQNYIPHAMAYASCIGENREHCSGRSAALRPVLSSAAALLTVTRLLC

>Cod\_Alpi\_Scaf\_1671:845,976\_ENSGMOT00000001357\_ENSGMOG00000001250]

ALYEREKEPAYWDAQARDTLVAALKLRPREHRAKNLILFLGDGMGVSTVTAARILKGQMEGKSGEETVLAMDSFPYLALSKTYSVDRQVADSASTATAYHCGVKANAKTVGLSARAVAYECNTTFGNEVYSVLRRAKAQGKAVGIVTTTRVQHASPAAAYAHSVSRSWYSDADLPASARRHGCVDIATQLVTNVDIDVILGGGRMYMTPKGTPDPEYPTSNSRKGDRKDRKNLIEQWLKAKPKKKSHYVWHKEQFDEINPKTTDRLMGLFEPKDMRFEVFRNNTRDPSIVEMTEKAIQILSKNPRGYFLFVEGGRIDHGHHDGVAKLALTEAVMFDRAIHRASRLTRESDTLTVVTADHSHVFTLGGNTPRGNSIFGLAAKKADDSMPFTSILYANGPGYVHVNGTRANITLVDYYDQEYMQQAAVPLDSETHGGEDVAIYARGPMAHLFHGVKEQNYVAHVMAYAACLPPYKDCPPHPHTQAASSGGRRTPASG

>Cod\_Alpl\_Scaf\_1020:9\_ENSGMOT00000021014\_ENSGMOG00000019071]

QEKEPKFWNDWAQKTLDKALSLQTLNKNKAQNLILFLGDGMGVPTVTAARILKGQLRGQPGEEGQLEMDKFPFVALSKTYNTNAQVADSAGTATAYLCGVKANEGTVGVSAAAVRSQCNTTQGNEVTSILRWAKDAGKSIGIVTTTRVNHATPSAAYAHCVDRDWYSDNEMPADAVEAGCKDIARQLFENIPDIDVIMGGGRKYMYPKNTTDVEYPGQPKHSGTRKDGRNLVKEWVDRNTEKKGHYVWNKKDLLSLNPTKVDYLLGLFEPADLPYDLERNKETDPSLSEMVEVAIKILRRNPNGFYLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIGRADLMTSTSDTLTVVTADHSHLFGFGGYTQRGNSIFGLAAMISDVDQKPFTAILYGNGPGYKLVNGARENVSTVDYQDNSYLAQAAVPLSSETHGGEDVAVFAKGPMAHLLHGVHEQNYIPHAMAYAACIGQN

>Cod\_Alpp\_Scaf\_1671:834,825\_ENSGMOT00000001326\_ENSGMOG00000001225]

QELHPWYWNNGPGCYRRVPQNDPHRGQAKNLVLFLGDGMGVTTVTATRILKGQLAGFNGEETSLAMDTFPYLALSKTYNVNQQMPDSAGTATAYLCGVKANYGTLGVSAMIERGKCSGNADNDVVSVLHRAKMAGKSVGIVTTTRVQHASPGANYAHTPDRGWYSDIELPPDAVRNGCRDIAWQLIKNTEINVILGGGRQYMFSNITADPEYPTYFGERSDGKDLVKEWLQGKKNAKYVVNKEGLDAVDASKTDFLMGLFEPKDCQYENKRDTTTDPSLTQMMEKAIKILKRNPKGFYLFVEARGRIDHGHHDGNAQRALTEAVEFDRAIERAAQLTSEKDTLTVVTADHSHVFAFGGHSQRGNSVFGVSRELATDKKHFTTAVYGNGPGYQIKNGIRPDVNATVAAEPEYHQQAPVPKNSETHGIEDVPIFAKGPMAHLFHGVQEQSYIAHVLAYAACLPPYEKCDLEDNHSVCLHPSSVLVLMSLLLALVSC

>Cod\_Alp3\_ENSGMOG00000009300\_Scaffold\_47:152,651\_ENSGMOT00000010217

QTYSVDFQIPDSAATATAYLCGVKTNLNTIGVSAAARNGVCRSQKGNEVTSILRWAKDAGQTFTHSSPHSGFCKYLDRLWLNNLLIGSTIFPHKNIHKLTWQSLSGRTINQIDHIIINGKWHAYSDHHLIAATINLKANKSNPKKPPAEDIAKLQYPKKNKEFVLELRNRFSMPEASSEILLWTFSRRSGSDRSDPHKHTNSHAPPLPLVTIRSVQAYPRYILIQSTGGRIDQAHHAGRGSMALHEAVALDRAVGKALELTNEEETLIVVTADHSHPLVINGYPFRGNSILGKSPLWASDMMPFTTLMYGNGPGNKMEGGKRPDIRKVDTKTSGYVQLAAVPLKSATHGGEDVVILARGPMAHLLQGVHEQSYIAHAMAYAACVGTDRRHCAARPAVAAARNQAGPYILQSVQWLLHIWF

>Human\_ALPI\_Hsa2:233,320\_NP\_001622\_[Homosapiens]\_ENSG00000163295]

MQGPWVLLLLGLRLQLSLGVIPAEEENPAFWNRQAAEALDAAKKLQPIQKVAKNLILFLGDGLGVPTVTATRILKGQKNGKLGPETPLAMDRFPYLALSKTYNVDRQVPDSAATATAYLCGVKANFQTIGLSAAARFNQCNTTRGNEVISVMNRAKQAGKSVGVVTTTRVQHASPAGTYAHTVNRNWYSDADMPASARQEGCQDIATQLISNMDIDVILGGGRKYMFPMGTPDPEYPADASQNGIRLDGKNLVQEWLAKHQGAWYVWNRTELMQASLDQSVTHLMGLFEPGDTKYEIHRDPTLDPSLMEMTEAALRLLSRNPRGFYLFVEGGRIDHGHHEGVAYQALTEAVMFDDAIERAGQLTSEEDTLTLVTADHSHVFSFGGYTLRGSSIFGLAPSKAQDSKAYTSILYGNGPGYVFNSGVRPDVNESESGSPDYQQQAAVPLSSETHGGEDVAVFARGPQAHLVHGVQEQSFVAHVMAFAACLEPYTACDLAPPACTTDAAHPVAASLPLLAGTLLLLGASAAP

>Human\_ALPL\_Hsa1:21,835,858\_NP\_000469\_ENSG00000162551]

MISPFLVLAIGTCLTNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTAARILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAATERSRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIDVIMGGGRKYMYPKNKTDVEYESDEKARGTRLDGLDLVDTWKSFKPRYKHSHFIWNRTELLTLDPHNVDYLLGLFEPGDMQYELNRNNVTDPSLSEMVVVAIQILRKNPKGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIGQAGSLTSSEDTLTVVTADHSHVFTFGGYTPRGNSIFGLAPMLSDTDKKPFTAILYGNGPGYKVVGGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFSKGPMAHLLHGVHEQNYVPHVMAYAACIGANLGHCAPASSAGSLAAGPLLLALALYPLSVLF

>Human\_ALPP\_Hsa2:233,243,244\_NP\_001623\_[Homosapiens]\_ENST00000392027]

MLGPCMLLLLLLLGLRLQLSLGIIPVEEENPDFWNREAAEALGAAKKLQPAQTAAKNLIIFLGDGMGVSTVTAARILKGQKKDKLGPEIPLAMDRFPYVALSKTYNVDKHVPDSGATATAYLCGVKGNFQTIGLSAAARFNQCNTTRGNEVISVMNRAKKAGKSVGVVTTTRVQHASPAGTYAHTVNRNWYSDADVPASARQEGCQDIATQLISNMDIDVILGGGRKYMFRMGTPDPEYPDDYSQGGTRLDGKNLVQEWLAKRQGARYVWNRTELMQASLDPSVTHLMGLFEPGDMKYEIHRDSTLDPSLMEMTEAALRLLSRNPRGFFLFVEGGRIDHGHHESRAYRALTETIMFDDAIERAGQLTSEEDTLSLVTADHSHVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNGPGYVLKDGARPDVTESESGSPEYRQQSAVPLDEETHAGEDVAVFARGPQAHLVHGVQEQTFIAHVMAFAACLEPYTACDLAPPAGTTDAAHPGRSVVPALLPLLAGTLLLLETATAP

>Human\_ALPPL2\_Hsa2:233,271,553\_NP\_112603\_ENST00000295453\_[Homosapiens]

MQGPWVLLLLGLRLQLSLGIIPVEEENPDFWNRQAAEALGAAKKLQPAQTAAKNLIIFLGDGMGVSTVTAARILKGQKKDKLGPETFLAMDRFPYVALSKTYSVDKHVPDSGATATAYLCGVKGNFQTIGLSAAARFNQCNTTRGNEVISVMNRAKKAGKSVGVVTTTRVQHASPAGAYAHTVNRNWYSDADVPASARQEGCQDIATQLISNMDIDVILGGGRKYMFPMGTPDPEYPDDYSQGGTRLDGKNLVQEWLAKHQGARYVWNRTELLQASLDPSVTHLMGLFEPGDMKYEIHRDSTLDPSLMEMTEAALLLLSRNPRGFFLFVEGGRIDHGHHESRAYRALTETIMFDDAIERAGQLTSEEDTLSLVTADHSHVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNGPGYVLKDGARPDVTESESGSPEYRQQSAVPLDGETHAGEDVAVFARGPQAHLVHGVQEQTFIAHVMAFAACLEPYTACDLAPRAGTTDAAHPGPSVVPALLPLLAGTLLLLGTATAP

>Mouse\_Alppl2\_Mmu1:88,983,265\_ENSMUST00000027455[Mouse

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>Mouse\_Alpi\_Mmu1:88,994,579\_ENSMUST00000113270[mouse

MQGDWVLLLFLGLRIHLSFGIIPAEEENPAFWNKKAAEALDAAKKLQPIQTSAKNLIIFLGDGMGVPTVTATRILKGQLEGHLGPETPLAMDLFPYMALSKTYNVDRQVPDSAGTATAYLCGVKANYKTIGLSAAARLDQCNTTFGNEVFSVMYRAKKAGKSVGVVTTTRVQHASPAGTYAHTVNRNWYSDAEMPASALQDGCKDIATQLISNMDIDVILGGGRKFMFPKGTPDPEYPSDSNQSGTRLDDQNLVQTWLSKHQGARYVWNRSELIQASQDPAVTHLMGLFEPTEMKYDANRNPSVDPSLAEMTEVAVRMLSRNPQGFYLFVEGGRIDQGHHAGTAYLALTEAVMFDSAIEKASQLTNEKDTLILITADHSHVFAFGGYTLRGTSIFGLAPLKALDDKSYTSILYGNGPGYELKSGNRPNVTEAQSVDPNYKQQAAVPLSSETHGGEDVAIFARGPQAHLVHGVQEQNYIAHVMAFAGCLEPYTDCGLAPPAGQSPVITPGQATTTNNAAGQATTTNNAAGQATVLLSLQLLVSMLLLVGTAMVVS

>Mouse\_Akp3\_Mmu1:89,021,583\_ENSMUST00000044878[mouse

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>Mouse\_Alpl\_Mmu4:137,297,648\_ENSMUST00000030551

MISPFLVLAIGTCLTNSFVPEKERDPSYWRQQAQETLKNALKLQKLNTNVAKNVIMFLGDGMGVSTVTAARILKGQLHHNTGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAATERTRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMHNIKDIDVIMGGGRKYMYPKNRTDVEYELDEKARGTRLDGLDLISIWKSFKPRHKHSHYVWNRTELLALDPSRVDYLLGLFEPGDMQYELNRNNLTDPSLSEMVEVALRILTKNLKGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDQAIGKAGAMTSQKDTLTVVTADHSHVFTFGGYTPRGNSIFGLAPMVSDTDKKPFTAILYGNGPGYKVVDGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFAKGPMAHLLHGVHEQNYIPHVMAYASCIGANLDHCAWAGSGSAPSPGALLLPLAVLSLRTLF

>Coelacanth\_Alp\_JH126591:1,952,656-1,938,480\_ENSLACT00000019682\_ENSLACG00000017187

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>Coelacanth\_Alpi\_JH126941:1033352-1058969]

EKKPQFWYDKAKLSLETALNLKSLNYQAKNLILFLGDGMGVSTVTAARIYKGQRNGKLGEEEIMAMDTFPYVALSKTYCVDRQVPDSAATGTAYLCGVKTNYRVLGLSGSAVSSQCNTTYGHEVYSVLHRAKQAGRVQHASPAAAYAHIVNRNWYADSSMPKDAIQDGCKDIAYQLVHNTDFDVILGGGRMYMTPMGTPDPEYPWDQKQNGIRNDGVNLIQTWLDARKLGLFEPKDMKYELNRNITLDPSIVEMMEKAIGILSKNPKGFFLFVERGRIDHGHHDSKAKMALTETVLFEQAIQRAGELTSDIDTLSVVTADHSHVFSFGGKTYRGSNNLGVAPKNADDNLPYTSILYGNGPGFNIQNGTRPNITMTDIGDYTQQAAVPLDSETHAGEDVAIYAKGPMAYLFHGVQEQTYIAHAMAYAACIEPYMDC

>Coelacanth\_ALPL2\_JH126892:103,864\_ENSLACT00000004503\_ENSLACG00000003972]

LGFYLMCAVAAGIIPAKERDPNYWRQQAQGTLRNALNHQHNTNVAKNVVLFLGDGMGLATVTAARILKGQMKNKLGEETLLTMETFPHVALSKTYNIDLQVPDSAGAATAFLCGVKANSGTVGVSAAAFNGICTSQFGNEVTSILKWAKDTGKSVGVVTTTRVQHASPAAAYAHSVNRRWYTDSNVPAAAKKEGCRDIAYQLVFNTDIDVIMGGGRKYMTAKGTPDPEYPLDFRSRGTREDGLDLVTEWQRNKTGKVAHYVWNKQDFDAVNANTTDYLLALFEPSDMKYEQDRNPEKDPSIVEMTEKAIQILQRNPKGFFLFVEGGRIDQGHHAGKASQALHEAVMLDNAIQKAIELTSEEDTLTVVTADHSHAFIFGGQPLRGNPILGKSSLFATDFMPYTTLLYGNGPGFKISNDKRPDIQKVNTASKDYLQQAAVPLDSETHGGEDVAIFARGPMAHLFHGVQEQNYIAHVMAYAACIGQNLEHCAGQSSPAQTLTLLPLLLTLPPAS

>Coelacanth\_Alpl\_JH126941:1,066,783\_ENSLACT00000026213\_ENSLACG00000014466]

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>Gar\_Alpi1\_LocLG14:8,377,253\_ENSDARP00000095231\_1

EKDPAYWNTQAKETLQAALKMKPISHRAKNIILFLGDGMGVSTVSATRILKGQMEGNSGEETVLTMDTFPHLALSKTYSVDMQVADSASTGTAYLCGVKANAKTVGVSAAAVAYKCNSTFGNEVYSVLHRAKAQGKSVGIVTTTRVQHASPAASYAHSVSRSWYSDADLSSSALRDGCKDLATQLVFNTDIDVILGGGRMYMTPKGTPDPEYPTSSSRRGKRKDGKNLIELWLFLLQSKNAQYVWHKEQFDAVDVNSTNCLMGLFEAKDMRFELYRNSTRDPSIIEMTEKAIQILSKNPKGFFLFVEDKYPLTFPHTAQ\*GCILLY\*SDLRGRIDHGHHDGIAKLALTEAVMFDRAIQRASQLTRDSDTLTVVTADHSHVFTFGGNTPRGNPIFGLVPEMAEDDLPYTSILYANGPGYLLENGTRANITVLPVDEEYMQQAAVPLDSETHGGEDVAIFAQGPMAHLFHGVKEQNYIAHVLAYAACLEPYTDCPPEPNSGSG

>Gar\_Alpi2\_LocLG14:8,360,649\_ENSDARP00000070354\_1

RQALEEALELKPNAGKAKNLILFLGDGMGVSTVTATRILKGQLEGKXXXXXXVCADFAACFPPS\*TYNVDHQAPDSAGTATAYLCGVKANYGTVGLSAAARRYQCNTTKGNEVTSILHRARKAGKSVGIVTTTRVQHASPAASYAHSVDRNWYSDSDLPHDALAGGCADISFQLIHNSDINVILGGGRQYMTPNGTKDPEYSSASARGKRQDGINLIDKWSRLFQKAVYVWNKTEFDAVNENDTEYLMGLFEPKDTRYELDRNKTQDPSLTEMTEKAIKILRKNPKGFFLFVEDKGRIDHGHHDSRARYALTEAVEFDRAIERAAELTSKLDTLTVVTADHSHVFTIGGKAERGNSVFGLAPSNADDNKPYTTILYGNGPGYIMENGTRPAPNITNIQNKAYRQQSAVLLDSETHGAEDVAIFAKGPMAHLFHGVQEQSYIAHVMAFAACIEPYEACSMKD

>Gar\_Alp1\_LocLG14:17,585,550\_ENSDARP00000019098\_1

EERKPQFWFDLAQRRLQSRLSQRDSTSTARNLLLFIGDGMGLNTITATRILKGQLRGGTGEEFTLAMDTFPYTALSKTYCTDAQIADSTCAATALLCGVKTNKFTAGLSAGATYDRCNTSDGHHVTSILRWAKDAGKSVGFVTTVRVQHATLAPAYAHTPNRYWYSDANMPAEQRQQGCKDIAHQLVHNIPDIEVIMGGGRKYMTPAATPDPEYPSDSRSQGLRLDGVNLIQKWKDLKPGKNATYVWNKADLDRVDPDKTDYLLALFEPGDMSFELERNNTTDPSLPDMTDVALKILRKNPKGFFLLVEGGRIDQGHHASRASMALHEAVALDRAVARALEITNENDTLTLATADHSHAFSFNGYPFRGNPILGKSPLFGKDSLPFTTLMYGNGPGHKIVNNKRPDIRGVDTTSNAYVQQSAVPMDTETHGGEDVAVFARGPMAHLFHGVQEQNYIPHALAYAACLGENLGHC

>Gar\_Alp2\_LocLG14:17,601,188\_ENSLACP00000004464\_1

ADEEDPAFWRRQAQESLQAALSLHHNTNVAKNILLFLGDGMGITTLTAARILKGQLENRSGEETVMTMDTFPYVGLAKTYSVDFQIPDSASTATAYLCGVKSNLNTVGLSGAGRNGVCRSQKGNEVTSILRWAKDAGKSVGIVTTTRVQHATPAAAYAHSASRKWYADSDMPASAKEGGCRDIAHQLINNIDIDVIIGGGRKYMTPRGTKDPEYPYDLAAAGRRADGRDLIAEWQKSKAGKVAHYVWNKKDFDAIDSNTTDYLMALFEPGDLRFELERDPVKDPSVIETTEKAIQILQKNPKGFFLLVEGGRIDQGHHASRASMALHEAVALDRAVARALEITNENDTLTLATADHSHAFSFNGYPFRGNPILGKSPLFGKDSLPFTTLMYGNGPGHKIVNNKRPDIRGVDTTSNAYVQQSAVPMDTETHGGEDVAVFARGPMAHLFHGVQEQNYIPHALAYAACLGENLGHCLSPSSTTE

>Gar\_Alpl\_LocLG25:7,036\_ENSDARP00000117214\_1

EEEKNPRFWNDMAQKTLQKALSLQEHNKNIAKNIILFLGDGMGIPTVTAARILKGQMNGHSGEETELEMDKFPYVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVNAAAVRSQCNTTQGNEVSSILKWAKDAGKSVGIVTTTRINHATPSAAYAHCVDRDWYSDGEMPQDAIEGGCKDIARQLFENIPNIDVIMGGGRKYMYPKNTSDVEYPNERKHSGTRRDGRSLIEEWKNRTSSMNGHYVWNRRQLLSLDPNRVNYLLGLFEPGDMPYELERNKDTDPSLTEMVEIAIKILRRNPRGFYLLVEGGRIDHGHHEGKAKQALHEAVEMDKAIGRAGLLTSEEDTQTVVTADHSHVFTFGGYTHRGNPIFGLAPMMSDIDQKPFTSILYGNGPGYKLVNGGRENVSTTDYNHNDYLAQSAVPLRMETHGGEDVAIFSKGPMAHLLHGVKEQNYIPHVMAYAACIGKNKQHCISGSSGA

>Medaka\_Alpi1\_C4:12,378,719\_ENSORLT00000008795\_alkalinephosphatase,placental\_ENSORLG00000006998]

MAKTHHFITGLLIFFSLQKALCISVDELEASYWNNKAKEALNAAIQVPRNLERAKNLILFLGDGMGMATVTAARMLKGQLARQSGEESSLVMDTFPYVALSKTYNVDEQMPDSAGTATAYLCGVKANYGTLGVTAATTRDNCLTSFGNNVSSILHRAKRAGKAVGIVTTTRVQHASPAASYAHSASRDWYSDSDLTEEALQNGCKDIAYQLINNTEINVILGGGRQYMFPKNTPDPEYPTLTGSRNDGLDLVEEWKKNKDTAKYVWDKKGFDAVNHRTTDNLMGLFEPKDCRYELERDPSMDPSLTEMTEKAIRILSKKPEGFFLFVEGGRIDHAHHGGQAKLALHEAVEFDRAIGRAAELTSELDTLTIVTADHSHVFAFGGYSARGNPVLGVSRELADDGKHFTTTVYGNGPGYQIANGSRPDVNDTVSSTNDYRQQAAVPLESETHGIEDVAIFAKGPMSHLIHGVQEQNYIAHVLAYAACLEPYENCRSHAAAFHLSLLLLLRSVCLPIMFLLFY

>Medaka\_AlpiB\_C13:18,337,006\_ENSORLT00000011879\_ENSORLG00000009477\_NearCdAndEcel1,isItTgdDupl?]

WVMFFKLYHIPGATFASLLPAVEEENPEFWRAQAKQTLQSVLDRKLNTKVAKNILFFLGDGMGITTYTAARILKGQLQNQSGEETVMTMDTFPYVGLAKTYSVDFQIADSAATATAYLCGVKTNLNTVGVNAAARNGICRTQKGNEVTSILKWAKDAGKSVGIVTTTRVQHATPAGSYAHSASRTWYSDADMPDSAIGEGCTDISSQLLKNVDIDVIIGGGRQYMTPRGTKDPEYPADFSSGGKRRDGRHLIQEWQNMKNGKAAHYAWNKTEFDAIDPETTDYLMALFEPGDLRYEAERDPSMDPSIMETTEKAIRILQKNPKGFFLLVESGRIDQAHHQGNAYLALHEAVAFDGAIARGLELTSEDDTLTIATADHSHPLTFNGFPFRGQSILGKSPLWGTDMLPYTTLMYGNGPGHKIVNGKRPDIRNVNTNSMEYIQLSAAPLDSTTHSGEDVVVLARGPMAHLFSGIQEQNYIAHAMGYAACVGADLRHCQEHITPAVGRTSISPNGNGAAGGSATPISILLASLLALRILM

>Medaka\_Alpl\_C5:32,031,301\_ENSORLT00000021361\_alkalinephosphatase,liver/bone/kidney\_ENSORLG00000017066]

TMLSALLIICSCLSVRSSGKPMFPENEKSPAFWNNGAQKTLKEALSTQELNKNKAKNLILFLGDGMGVPTVTAARILKGQLNGQSGEEYQLEMDKFPFVSLSKTYNTDAQVPDSAGTATAYLCGVKANEGTVGVSAAAVRSQCNTTKGNEVTSILKWAKDAGKSVGIVTTTRINHATPSAAYAHSVDRDWYSDNEMPSEALQAGCKDIARQLFENIPNIDVIMGGGRKYMFPKNMSDVDYPGVAKYNGVRNDGRNLVQEWIDRMKDQGGHYVWNKQQLLSLNPKKTSYLLGLFGPVDLPYDLERNADSDPSLTQMVEVAIKVLQNNPKGFYLLVEVGGRIDHGHHEGKAKQALYEAVEMDRAIGRADLLTSAQDTLTVVTADHSHVFTFGGYTRRGNTIFGLAPMVSDVDHKPFTSILYGNGPGYKLVGGARENVSTVDFAENNYKAQSAVPLTSETHGGEDVAVFAKGPLAHLLHGVHEQNFIPHVMAYAACIGQNRGHCPSGGTAALRPVFSSMAAVLTVTLLLC

>Medaka\_ALPPL2\_C4:12,379,014\_ENSORLT00000008796\_alkalinephosphatase,placental\_C4:12,379,014\_ENSORLG00000006998]

LRCTSFWFLLFLCVCEAALHEIEKEPAYWNAQAKAALNAALKLHPRHHRAKNLILFLGDGMGVTTVSAARILRGQMEGWSGEETVLAMDTFPYVALSKTYSVDKQVADSASTATAYHCGVKANAKTLGLNAKAVVYECNTTFGNEVHSVLRRAKAQGKSVGIVTTTRVQHASPAAAYAHSVSRKWYSDADLPSSAIQQGCVDIATQLVTNVDIDVILGGGRMYMTPQGTPDPEYPTSSSRKGDRKDKRNLINIWLKAKPKKKSHYVWNKKGFDEINVKTTDRLMGLFEPKDMKFEVYRNSSSDPSIVEMTEKAIQILRKNPKGYFLFVEGGRIDHGHHDNTAKLALRETVMFDAAIERAGQLTRESDTLTVVTADHSHVFTFGGSTPRGNPIFGVSRELADDGKHFTTTVYGNGPGYQIANGSRPDVNDTVSSTNDYRQQAAVPLESETHGIEDVAIFAKGPMSHLIHGVQEQNYIAHVLAYAACLEPYENC

>Tilapia\_Alpi1\_GL831204:1,034,254\_ENSONIT00000015767\_alkalinephosphatase,placental\_ENSONIG00000012513]

MLNASFSWLITLSLSLSLLPLVPWDELDPLYWNNKGRNALHTALNKPRNSHQAKNVILFLGDGMGIPTVTAARILKGQLERKSGEESSLAMDSFPHLALSKTYNVDQQMPDSAGTATAYQCGVKANYGTLGVNAAAPRHNCQASHGNDVTSVLHRAKLAGKSVGIVTTTRVQHASPAAAYAHVASRDWYSDADLSEEAVQNGCRDIAYQLVYNTEIDVILGGGRTYMFPTTYQDPEYPTVKGARKDEKNLVDEWLKNKQNAKYVWNKADFDAINPATTDFLMGLFEPKDCRYELDRDPSMDPSLTEMTEKAIRILSKNPKGFFLFVEGGRIDHGHHATMAKKALHEAVEFDRAIERAADLVSDLDTLTIVTADHSHVFAFGGDSPRGNPVLGIADTQATDNKHFTTAVYGNGPGYKIANGSRPDVNESVSTDNNYLQQTAVPLDSETHGIEDVAIFAKGPMSHLFDGVQEQSYIAHVMAYALCIDPYVDCQLPEANHAVASHPSLLLLLMSLLLITFYPI

>Oni\_Alpi2\_GL831204:1021486:1032110\_JHPbuilt]

DELDPLYWNNKGRNALHTALNKPRNSHQAKNVILFLGDGMGVSTVSAARILRGQMDGGSGEETILAMDTFPYVALSKTYSVDKQVADSASTATAYHCGVKANAKTVGLSAKAVPYECNTTFGNEVYSVLRRAKAQGKSVGIVTTTRVQHASPAAAYAHSVSRSWYSDADLPSSAREHGCVDIATQLVTNVDIDVILGGGRMYMTPKGTPDPEYPTSNSRKGDRKDRRNLIDVWLLLGLFEPKDMRFEVFRNSTRDPSIVEMTEKAIQILKKNPKGYFLFVERGRIDHGHHDGIAKLALTEAVMFDRAIHRAAQLTRESDTLTVVTADHSHVFTFGGNTPRGNPIFGLAPKKADDQMPFTSILYANGPGYVHINGTRENIEYMQQAAVPLDAETHGGEDVAIYAKGPMAHLFHGVKEQNYVAHVMAYAACLEPYTNC

>Tilapia\_ALPL\_GL831191:3,589,286\_ENSONIG00000000682\_Tilapia\_OreoComisniloticus\_ENSONIT00000000861\_alkalinephosphatase,liver/bone/kidney]

MTALLIICFCLILGSLGKPQFPEQEKDPKFWNAWAQRTLKNALTLQELNKNKAKNLILFLGDGMGVPTVTAARILKGQLNGQNGEETQLEMDKFPFVSLSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAAAVRSQCNTTQGNEVTSILKWAKDAGKSVGIVTTTRVNHATPSAAYAHCVDRDWYSDNEMPAEALQAGCKDIARQLFENIPNIDVIMGGGRKYMFPKNASDIEYPNILKHSGTRKDGRNLVEEWVDRMRNKNGRYVWNKTQLLTLNPNNVDYLLGLFEPGDMTYDLERNTESDPSLTEMVDVAIKILKKNPSGFYLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIGRAGLLTSDHETLTIVTADHSHVFSFGGYTPRGNTIFGLAPMLSDVDQKPFTSILYGNGPGYKVINGARENVSTVDYKGNNYQAQAAVPLNAETHGGEDVAVFAKGPLAHLLHGVHEQNYIPHVMAYAACIGQNREHCMSSSGSAGLRPAFSIVATILSAARLLC

>Fugu\_Alkl\_scaf\_178:10,865\_ENSTRUT00000010675\_alkalinephosphatase\_NP\_001027823]\_ENSTRUG00000004463]

RISFFVRLFVLFVCLQTTFLIEQEKDPKFWNTWAQQTLKNALSLQTLNQNKAKNLIFFLGDGMGVPTVTAARILKGQLSGQSGEETQLEMDKFPFVSLAKTYNTNAQVADSAGTATAFLCGVKANEGTVGVSAAAVRSQCNTTKGNEVTSILKWAKDAGKSVGLVTTTRVNHATPSASYAHSVDRDWLSDSVMPAEAVQDGCKDIARQLFENIPDINVIMGGGRKYMFPKNQVDVEYPDTAKYSGIRKDGRNLVGEWIEKMENKNGHYVWNKKQLLSLNPNNVDYLLGLFEPEDMTYDLERNPETDPSLTEMVEVAIKILKKNPNGFYLLVEGGRIDHGHHEGKAKQALYEAVEMDRAISRAGLMTSIHDTLTIVTADHSHVFNFGGYTHRGNTIFGLAPAVSDVDQKPFTAILYGNGPGYKLVNGGRENVSAIDYQENNYQAQAAVPLSMETHGGEDVAVFAKGPMAHLLHGVHEQNYIPHVMAYASCIGQNRQHCAGHNQGSRLRPALPSIAALFTLIRLLF

>Fugu\_Alpp\_scaf\_43:1,103,898\_ENSTRUT00000022198\_alkalinephosphatase,placental\_scaf\_43:1,103,898\_ENSTRUG00000008800]

TLCFGAVVGWSICLADDILKATLHELEKEPAYWDAQARATLGAALRLRPRDHQARNLILFLGDGMGVSTVSAARILRGQMEGGSGEETMLAMDTFPYVALSKTYSVDKQVADSASTATAYHCGVKANAKTLGLNANAVAYECNTTFGNEVYSVLRRAKAQGKSVGIVTTTRVQHASPAASYAHSVSRSWYSDSDLPESAIEQGCVDIAAQLVTNVDIDVILGGGRMYMTPRGTLDPEYPTSNSRKGDRNDKRNLIDVWLNAEPNKRSRYVWNKREFDEINIKTTDRLMGLFEPKDMKFEVFRNSTRDPSIVEMTEKAIQILSKNPNGYFLFVEGGRIDHGHHDSVAKLALTETVMFDRAIQRAAQLTRESDTLTVVTADHSHVFTFGGNTPRGNPIFGLAPKNADDGMPFTSILYANGPGYIHVNGSRENITMVDYNDDEYMQQAAVPLDAETHGGEDVAIYAKGPMAHLFHGVKEQNYIAHVMAYAACLEPYRTCPRTPTHSSSPAVKSPSNLLFFLLVLLLV

>Green\_pufferfish\_Alp\_CUn\_random:21,213,913\_Q4S777\_TETNGENSTNIT00000015366\_ENSTNIG00000012197]

VMTATVALILGSCLILGSLGKPSFPEQEKDPKFWNTWAQQTLKNALGLQTLNQNKANNLIFFLGDGMGVPTVTAARILKGQLSGQSGEEGQLEMDKFPFVSLAKTYNTNAQVADSAGTATAFLCGVKANEGTVGVSAAAVRSQCNSTKGNEVTSILKWAKDAGKSVGIVTTTRVNHATPSASYAHSVDRDWFSDAEMPAEALQDGCKDIARQLFENIPNIDVILGGGRKYMFPKNQSDVEYPNIAKHSGTRKDGRNLVAEWTEKMKDSKGHYVWNKQQLVTLNPNMVDYLLGLFEPGDMTYDLERNSETDPSLTEMVDVAIKILKKNPNGFYLLVEGGRIDHGHHEGKAKQALYEAVEMDRAIQRAGLLTSVHDTLTIVTADHSHVFNFGGYTHRGNPIFGLAPAVSDVDQKPFTAILYGNGPGYKLVNGGRENVSTINYQENNYQAQAAVPLSSETHGGEDVAVFAKGPMAHLLHGVHEQNYIPHVMAYASCIGQNRQHCLQHNQASSLRPTLSSTAALLAAIKLLF

>Green\_pufferfish\_Alpi1\_C1:18,545,349\_ENSTNIT00000001814\_ENSTNIG00000001649]

QQGYYGRLLLLLLKLLKTFSALHELEKEPAYWDAQASATLGAALKLRPRDHQARNIILFLGDGMGVSTVSAARILRGQMEGGSGEETMLAMDTFPYVALSKTYSVDKQVADSASTATAYHCGVKANAKTIGLNANAVAYECNTTFGNEVYSVLQRAKAQGKSVGIVTTTRVQHASPAASYAHSVSRSWYSDSDLPDSAIEQGCVDIATQLVTNVDIDVILGGGRMYMTPRGTPDPEYPTSNSRKGDRNDNRDLIDVWLKAKPNKRSRYVWNKMEFDEINIRTTDRLMGLFEPKDMKFEVFRNSTRDPSIVEMTEKAIQILNKNPKGYFLFVEVRGRIDHGHHDGIAKLALTETVMFDRAIQRAAQLTRESDTLTVVTADHSHVFTFGGNTPRGNPIFGLAPKNADDRMPFTSILYANGPGYVHINGSRENITMVDYYDDEYMQQAAVPLDAETHGGEDVAIYAKGPMAHLFHGVKEQNYVAHVMAYAACLEPYRNCPHPHTHSSSPGMNLPTILEFFLLGLLLLL

>Green\_pufferfish\_Alpi2\_C1:18,552,681\_ENSTNIT00000015356\_alkalinephosphatase,placental\_ENSTNIG00000012188]

MAGHQRMIVTGLILSILMQWTLSAPEKDKQELHADFWNNKGKQAIFTAMNVQPNIRRAKNMILFIGDGMGVPTVSAARIFKGQLGGRSGEESNLVMDTFPHLALSKTYNVDQQMPDSAGTATAYLCGVKANYGTLGVTAATPRYDCKAAIDNPVTSVLHRAKKAGKSVGIVTTTRVQHASPGASYAHTADRGWYADSDLSPEAIRDGCRDIAHQLISNTAIDVILGGGRQYMFSTTTQDPEYPSSKGTRNDGRDLVKEWMTNKTNAKYVWKKSDFDSVDPRKTDFLMGLFEPKDCRYELDRDPNMDPSLTEMMEKAIRILSKNPKGFFLFVEASGRIDHAHHAGNAKRALYEAVEFDRAIGRAAELTSELDTLSVVSADHSHVFTFGGYSPRGNPVLGVSRSLAGDNKRFTTIIYGNGPGYQINETRPDVNETISADKDYLQQAAVPLDSETHSIEDVAIFAKGPMSHLFHGVQEQSYIAHVLAYAACIEPYEDCGLPNHAGFLHPSLLLLLLAVCLLSLC

>Green\_pufferfish\_Alpl\_C16:7,089,940\_Q4RYZ7\_TETNGENSTNIT00000017532\_Alkalinephosphatase\_ENSTNIG00000014299]

EEENPEFWRSQARKSLQSVLNRELNTNVSRNILFFLGDGMGMTTYTAARILKGQLQGRAGEETVLTMDTFPSVGLAKTYSVDFQIPDSAATATAFLCGVKTNLNTVGVSAAARNGVCKMQKGNEVTSILKWAKDAGKSVGIVTTTRVQHATPAASYAHSASRKWYSDADVPESAKKEGCTDISSQLLNNTDIDVIMGGGRKYMTPRGTKDPEYPLDFFSRGQRKDGRDLTKEWQSMKAGKVARYVWNKAGFDAVDPETTDYLMALFEPGDLRFDVDRDPKLDPSIVEMTEKAIRILRKNPKGFFLLVEGGRIDQAHHDGRAYMALHEAVAFDRAVARGLELTHEQDTLTVVTADHSHPLTFNGFPFRGQSILGKSPLWGTDFRPYTTLMYGNGPGYKLINGSRPDLRDVNTKHKDYVQLSAAPTDSTTHSGEDVVVLARGPMAHLFQGVHEQNYLAHAMAYAACVGADLRHC

>Fugu\_Alpi3\_scaf\_123:791164:797773\_JHPbuilt]

VEEENPEFWRSQAQKSLQSVLDRKLNTNVSRNILFFLGDGMGVTTYTAARILRGQLQNQSGEETVMTMDTFPSVGLAKTYSVDFQIPDSAATATAFLCGVKTNLNTIGVSAAARNGICKTQKGNEVTSILKWAKDAGKSVGIVTTTRVQHATPAASYAHSASRKWYSDADVPESAKKDGCTDISSQLLNNTDIDVIMGGGRKYMTPRGTKDPEYPWDFLSRGRRKDGRDLTKEWQSMKAGLFEPGDLRFEVRDPKVDPSIVEMTEKAVRILRKNPKGFFLLVEGGRIDQAHHDGRAYMALHETIAFDDAIAKGLELTDEHETLTVVMADHSHPITFNGFPFRGQSILGKSPLWGTDFKPYTTLMYGNGPGYKLANGSRPDLRDSASFSPETKDYVQMSAAPTESTTHSGEDVAVLARGPMSHLFQGVHEQNYIAHAMAYAACV

>Fugu\_ALPP\_scaf\_43:1,103,412\_ENSTRUG00000008800\_ENSTRUT00000022197\_2dHalf,AA480-954

FWYNKGRQALFTAMNVQPNIKKAKNMILFIGDGMGVPTVTAARMLKGQLGGRTGEEADLVMDTFPHLALSKTYNVDKQMPDSAGTATAYLCGVKANYGTLGVNAATPRYDCNATFGNEVTSVLHRAKKAGKSVGIVTTTRVQHASPGASYAHIANRGWYADSDLSPEAVAGGCRDIAHQLVYNTEIDVILGGGRQYMYPKTMQDPEYPASRGSREDGRNLILEWVKDKTNVKYVWEKSEFDSVNPSHTDFLMGLFEPKDCRYELDRDPKMDPSLTEMTEKAIQILSKNPKGFFLFVEDKPSSGRIDHAHHGGKAKRALYETVEFDQAIGRAAELTSELDTLTVVSADHSHVFAFGGDSPRGNPVLGVSSLLAEDKKHFTTAVYGNGPGYQIANGTRPDVNETISSDKDYRQQAAVPLDSETHGMDDVAIYAKGPMSHLFHGVQEQSYIAHVLAYAACIEPYDDCNLCSCCFHKVH

>Cionaintestinalis\_Alp\_NP\_001027596.1|endoderm-alkalinephosphatase[Cionaintestinalis]

MLDMMFHQGLLLLCASVAVIGQDLTEKSAAYWEQVSEAELLETLQYQKLNIKKAKNVIIFIGDGMGVTTVTAGRILKGQNSGASGEETKLAMDKLPYTGVSRTYSVNRQVSDSASTATAFLTGVKTNDYVLGLNGNSVKGICAGSINESNLLTSVLLEAKMAGMSAGIVTTTTINHATPAAAYANSPDRLWYSDAEMTAEAKENGCKDIAQQFIDKSDQFTVVLGGGRQYFKPNTTFDVEYTDRANLRLDGQDLIEVWKAKQSDRNSAYVWNKEQFDQVDVAKTDSLLGLFEPSHMNYEAHRAQDGAGEPSLKDMTSKAIRMLKKNDQGFILLVEGGKIDHGHHAGKAYLALHDLVALDDAIEAAVEMTSDDETMIIVTADHSHVFTIGGYSHRGNPIFGAAPNVNNPKLVDDGKPFTTLLYGNGPGHSTLNGVGSCERENITLIATDDPNYKQQSAVPLPSETHGGEDVVIMARGPMAHLFEGVHEQSYIAHIIRYATCIGKKSKNCAAQLEQSTDLIFVSFLGFRLSSGQAQLALYITFGLLMAACIIAIAANLQLCRMARQSARKHEDPKVLNEKV

>Cionasavignyi\_BAA92180.1|endoderm-alkalinephosphatase[Cionasavignyi]

MSMICFVTMMCVCSLGTAQVLTERSAHFWELRNQAELDEAITKQSLNIRKAKNVIIFVGDGMGITTITSGRILKGQVSGTSGEETKLAMDKFPFSGISKTYSVNKQVSDSASTATAFLTGVKTNDFILGLTGSAQRGICKGSIDENNIVTSVLIEAKNAGKSAGFVTTTRINHATPGATYAHTPERMWYGDADLTEEAKANGCKDVAQQFIDNSHLFTVALGGGRQYFRPNTTQDEEYPNKTNARLDGQDLIEQWKQIQLQQGNRAAYVWNATEFAGINPDNTDSLLGLFQPKDMHYEAHRSGDVAGEPSLSEMTAKAISLLKKNEEGYILLVEGGRIDHGHHEGNAYLALHDLVAFDDAIDTAVQMTSDDETMLIVTADHSHVFTIGGYSDRGNPIFGLAPNAIKPTLGDDNKTFTTLLYGNGPGYAFESCERENVTGVPTDVSTYLQQSAVPLSYETHGGEDVIIMSRGPMAHLFEGVHEQTYIAHVIRYATCIGKLSKDCNERFNPPKENGVILYFLGISMTSSKAVLALYVTLALLIVTSIVAIAANIHIYRMVSSKPKSEQMQKV