>Drosophila\_melanogaster\_PKD2\_Q9VK95

WTVLAFYRTGGYTVNL--DYDKDRNVKIINDLKDIHWLDRGSRLCLVEFNLFNENTDIFQSIKLIAEIPPTGGVIPQAHLQTVKMYSFFT--DRSMLMTVIYIFWYIMVIYYTIYEITEIRKSGIKIYFCSMLNILDCAILLGCYLALVYNIWHSFKVMSLTARAH-SDV-TYQSLDVLCFWNIIYVDMMAILAFLVWIKIFKFISFNKTLVQFTTTLKRCSKDLAGFSLMFGIVFLAYAQLGLLLFGTKHPDFRNFITSILTMIRMILGDFQYNLIEQANRVLGPIYFLTYILLVFFILLNMFLAIIMETYNTVKGEITQGR

>Homo\_sapiens\_PKD2\_AAC50520 A new protein sequence entered manually

WGIIATYSGAGYYLDL--SRTREETAAQVASLKKNVWLDRGTRATFIDFSVYNANINLFCVVRLLVEFPATGGVIPSWQFQPLKLIRYVT--TFDFFLAACEIIFCFFIFYYVVEEILEIRIHKL-HYFRSFWNCLDVVIVVLSVVAIGINIYRTSNVEVLLQFLE-DQN-TFPNFEHLAYWQIQFNNIAAVTVFFVWIKLFKFINFNRTMSQLSTTMSRCAKDLFGFAIMFFIIFLAYAQLAYLVFGTQVDDFSTFQECIFTQFRIILGDINFAEIEEANRVLGPIYFTTFVFFMFFILLNMFLAIINDTYSEVKSDLAQQK

>Mus\_musculus\_PKD2\_O35245

WGIIASYSGAGYYLDL--SRTREETAAQLAGLRRNFWLDRGTRAAFIDFSVYNANINLFCVVRLLAEFPATGGVVPSWQFQPVKLIRYVT--AFDFFLAACEIIFCFFIIYYVVEEILEIRIHRL-SYFRSFWNCLDVVIVVLSVVAMVINIYRMSNAEGLLQFLE-DQN-SFPNFEHVAYWQIQFNNISAVMVFLVWIKLFKFINFNRTMSQLSTTMSRCAKDLFGFTIMFSIIFLAYAQLAYLVFGTQVDDFSTFQECIFTQFRIILGDINFAEIEEANRVLGPLYFTTFVFFMFFILLNMFLAIINDSYSEVKSDLAQQK

>Capitella\_teleta\_ELT90189 A new protein sequence entered manually

WGYITTYGGGGFYQDL--ALNKADSLALIADLKQNLWLDRGTRVVFVDFTVYNANINLFCVIRLVVEFPATGGAIPSWNFRTVKLIRYVS--ASDYFVMACECIFVLYVIYYIIEETLEIKRHKL-GYFKSFWNILDIIVLMIAVCCIGFNVYRTVAVADMLDTLLDSPN-EYADFEFLSYWQVVFNSALAIMVFFAWIKVFKYISFNKTMTQLSSTLARCAKDLAGFAVMFFIIFLAFAQLGYLIFGTQVKDFSSFDDAVFTLFRIILGDFNFHELEQANRVLGPAYFILYVFFVFFVLLNMFLAIINDTYSEVKEEISNQK

>Nematostella\_vectensis\_PKD2-like\_XP\_032219880 A new protein sequence entered manually

WGRMTTYSGGGFTQLL--APTKAETQQIIEDLKQNLWLDRGTRAVFIDFTVYNANINLFCIVRLVFEYPPTGGCIPSFNFRTVKLIRYVD--TFDHFVMACEGIFILFIIYYTIEEGLEIKKHKM-KYFKSFWNVLDVVVIMLGYVAVVFNLYRTMAVGDLLSSLLEDGS-QYANFDSLGFWQTQFNNMVAVAVFFAWIKVFKYISFNKTMTQLSSTLSKCAKDVAGFAIMFFIIFFAYAQLGYLIFGTQVRDFSTFEDSIFTLFRIILGDFDFHQIENANRVLGPLFFMTYVFFVFFVLLNMFLAIINDTYAEVKSDIASQE

>Acropora\_millepora\_PKD2-like\_XP\_029208330 A new protein sequence entered manually

WGRITSYSGGGFTLLL--EATKAKTEALIDKLKKNLWLDRGSRAVFIDFTVYNANINLFCIVKLLFEYPATGGCIPSFNFRTVKLIRYVN--TMDHFVMACEGIFILFIIYYTIEEILEIKKHRL-KYFKSFWNVLDIIVIFLGYVAIVFNLYRTVTVSDLLKGLLANNK-QYANFDSLGFWQTQFNNMVAIAVFFAWIKVFKYISFNKTMTQLSATLNNCAKDVGGFAVMFFIIFLAYAQLGYLVFGTQVRDFSTFPDAIFTLFRIILGDFDFHALEAANRVLGPIFFITYVFFVFFVLLNMFLAIINDTYAEVKSNIASQK

>Caenorhabditis\_elegans\_PKD2\_Q9U1S7

VGTIASYGGGGFVQRL-PVAGSTEAQSAIATLKANRWIDRGSRAIIVDFALYNANINLFCVVKLLFELPASGGVITTPKLMTYDLLTYQT--SGGTRMMIFEGIFCGFILYFIFEELFAIGRHRL-HYLTQFWNLVDVVLLGFSVATIILSVNRTKTGVNRVNSVIENGL-TNAPFDDVTSSENSYLNIKACVVFVAWVKVFKFISVNKTMSQLSSTLTRSAKDIGGFAVMFAVFFFAFAQFGYLCFGTQIADYSNLYNSAFALLRLILGDFNFSALESCNRFFGPAFFIAYVFFVSFILLNMFLAIINDSYVEVKAELARKK

>Human\_PKD1\_AAC37576 A new protein sequence entered manually

WGSCAVYDSGGYVQEL--GLSLEESRDRLRFLQLHNWLDNRSRAVFLELTRYSPAVGLHAAVTLRLEFPAAGRALAALSVRPFALRRLSA--GLSLPLLTSVCLLLFAVHFAVAEARTWHREGRW-RVLRLGAWARWLLVALTAATALVRLAQLGAADRQWTRFVRGRPR-RFTSFDQVAQLSSAARGLAASLLFLLLVKAAQQLRFVRQWSVFGKTLCRALPELLGVTLGLVVLGVAYAQLAILLVSSCVD---SLWSVAQALLVLCPGTGLSTLCPAESWHLSPLLCVGLWALRLWGALRLGAVILRWRYHALRGELYRPA

>Mus\_musculus\_PKD1\_O08852

WGYCAVYDSGGYIQEL--GLSLEESRARLGFLQLHNWLDSRSRAVFVELTRYSPAVGLHAAVTLRLEFPVAGHALAAFSVRPFALRRLST--GLSLPLLTSVCLLLFALYFSMAEVQTWRKDGCA-CTARPDTWARCLLVILTAATGLVRLAQLGIADRQWTHFVQDHPR-HFTSFDQVAQLGSVARGLAASLLFLLLVKAAQQLRFVRQWSVFGKTLCRALPELMGATLGLVLLGVAYAQMAILLISSGAD---TLYNMARAFLVLCPGARVPTLCPSESWYLSPLLCVGLWALRVWGALRLGAILLRWRYHALRGELYRPA

>Mytilus\_coruscus\_PKD1L2\_CAC5406047 A new protein sequence entered manually

VGEISTYKGGGYVAMF--ERNVERTNELIAHLRKDVWLDVYTRGVFLEFTVYNPNLNLFGSMIMLVEFMQSGGAVTRMEFKIFRLLSYIG--GMGVVVILFEVLYACFTLYFFVHFVKKLKKERK-KYFNSFWNKLEFALMLFCVTVIAMYALKHILTSVAMNALKDRERADNVNFQSLAAYDELYSYMVGIVVFLATIQFLKLLQFNKKMNMLGDTVNLASKDLKVFSFAFIMYFLAFTIFGFLLFGSTLYAFAGFISAAESMFAFTLGSFDFAAMEASQKILGPIFFFLFIFIVYVGLMSIFLTIIADAFATVKEDVANQT

>Acropora\_millepora\_PKD1-like\_\_XP\_029194885 A new protein sequence entered manually

MGHLALYRGGGYNTDL--SSSAEEAYSVINYLKSHQWVDKYTRAVFVEFTVYNVHSNLYCVANLLLEFTAAGGVLPFIQLLSTRIDRYVG--NFLIFVLICEVTFVLFSLYFTYREFKRFIKMGLKQYLAEFWSWIELTQIGLSWTCVVLYGIRFALDRHTKTNFRNNPQ-KFVDFHHLALVDMLFGYVYAFVVFLTSVKFLRLFRFNRRMSLLGSTISASARELFHFGIIFGLVFVGFSHLCYLVFSRELYKFHTFLTTIETLISVMLGKFSYVSLERTNRVLGPIMFFFYSIGVVFILVNMFLSIIIENFKRVKNDNDLQS

>Trichoplax\_sp.\_PKD1-like\_\_RDD45301 A new protein sequence entered manually

WGQYHIYYGGGYVVEL--SRNESQSQLTLNQLQQQGWIDHQTRAILIEFTIFNAQVNLFSVVTLLAEFPATGGIMPFVEIQTIRLFRDHY--SAGMLVIVCEIIFVSFIAYYIYRELSKLKRLSL-RYFSGFWNIIEFTIISLAVAAVSIYFFRLQVTRNALAQCRSQSR-HFINFHYVATWDNLYIHLFAFLIFFGTIKLIRLLRFNRTIAILSITLRSAAKEILMFLVVFTVIFLTFAQFAYLIYGRTINSYNTFIKTLESQFNMMIGRFYAKIMYSSLRDVSPLYFFCYTFLVSWVLINMFLTLIIKSFEKVKSCCNQIN

>Hydra\_vulgaris\_PKD1-like\_2\_XP\_012558373 A new protein sequence entered manually

IGYLATYTGGGYVADL--GNYPLKSHQVINDLHQNKWIDGRTRALFLEFSTYNPQVNLFGIVNLLLEFSPSSAVEFFSSIHIARLYTFAG--ETATLTLVCQIFVVFFFLIAMYKEAKKIYKMKK-LYFRGFWNLYEFFLIILLLITTGVFFSRVMLVKKAVKSIQEDQK-KFVSFNRIVQWDQLFSGLTSVLVLLTCIKSIRILQYNKTISLFVLTLKKSASPLAAFFLIFAIFFTSFTAWAYLMFIPYLPEYSNYISASESVMSLLLGSFKFKDIVSAKPVLGSLWFTLIMIFGVMYIMNVFLTIVMETYASVNKDLSMTS

>Nematostella\_vectensis\_PKD1

MAYVSSYGGGGYAAEL--GQTEEHALRVIKTLENNTWIDSQTRAVFTEVSTYNPVSNLFCAMTFVVEFLPTNGVYLYMDLKVSRLFATGG--GFETFLVVCEFLVVVFFLIFIYQELKQLYRMRK-AYFKDFWNNIEFTMVILVLASVCMFLMRLKLVESALTKLEKQGN-TFVSFSRVSSWSEAFMIVVALLVFTTWLKGIKLLRFNPRILMLTRTLKGAAGPLATFSVVFLVFFMSYALFAFAVFGKDIQSFYNFVTTAESVMGLLLGSFDYGEIEEAQPILGPIFFFTFMVFGNFIIMNMFLTIIMDVFAEVKEQLSEQN

>Strongylocentrotus\_purpuratus\_Receptor\_for\_egg\_jelly\_3\_(PKD1)\_Q95V80

WGHATSLPSSGYIWVL--GSMYEEAKDSLAEMVDARWLDARTRALFVEWTSYNANTNLFCVVTFLMETPASGGLLKLPEVQAVRLHRYAA--NYKLFVILCEILFVVALFFVMYREYVRYKPIGIRKYLSDKWNLLEIAIIVNCIVSAGLYIYRYVITKQLFKQMRDESV-RFVGFRTAATSDNALGYSLAVIIILSCVKFLYLLRLNPRMYLLTSVISDCYHEVIAFTFLIFILILSFAFPMTIMFGSNLPDYRDITKTALNLFITLPDNFVYEDLKSVQRVLGPLILLLFQFLSCYLFLDLLIAALNESMVTIRRHPPPPS

>Mus\_musculus\_PKDRE\_Q9Z0T6

YGVLNTYGSGGYVFYFFPGQQMFNSTVRLKELEGKNWLDELTWAVIVELTTLNPDTSLMCSISVVFEVSPLGVVNSSLSVYSFSLADFNRKTSSEIYLYAAI---LIFFCAYVVDEGYIIRQERA-SYIRSVYNLLNFSLKCMFALLIVLFFWKYFLATKMVQLYLADPE-AFIPFHAVSRVDHFMRIILAFLLFLTILKTLRYSRFFYNVRLAQKAIQAALPGICHTALVVSIYSFMYVAFGYLVFGQHEWNYSNMIHATQTIFSYCVSAFQNTEF-SGNKVLGVLFLSSFMLVMICIFINLFQAVILSAYDEMKQPVYEEP

>Homo\_sapiens\_PKDRE\_Q9NTG1

YGLLHTYGSGGYALYFFPEQQRFNSTLRLKELQESNWLDEKTWAVVLELTTFNPDINLFCSISVIFEVSQLGVVNTSISLHSFSLADFDRKASAEIYLYVAI---LIFFLAYVVDEGCIIMQERA-SYVRSVYNLLNFALKCIFTVLIVLFLRKHFLATGIIRFYLSNPE-DFIPFHAVSQVDHIMRIILGFLLFLTILKTLRYSRFFYDVRLAQRAIQAALPGICHMAFVVSVYFFVYMAFGYLVFGQHEWNYSNLIHSTQTVFSYCVSAFQNTEF-SNNRILGVLFLSSFMLVMICVLINLFQAVILSAYEEMKQPVYEEP