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Product datasheet for RC234845

PKD2L1 (NM_001253837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKD2L1 (NM_001253837) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKD2L1
Synonyms:	PCL; PKD2L; PKDL; TRPP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC234845 representing NM_001253837
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCCCAGGAGACGGCATACAGGACCCAGGTGTCCAGCTGCTGCCTCCATATCTGTCAAGGCATCAG
AGGCATCTCTCCCATGCCCCTTAGGACTTTGGGGAACAACCCTGACTGAGAACACAGCTGAGAACCGGGA
ACTTTATATCAAGACCACCCTGAGGGAGCTGTTGGTATATATTGTGTTCCTGGTGGACATCTGTCTACTG
ACCTATGGAATGACAAGCTCCAGTGCTTATTACTACACCAAAGTGATGTCTGAGCTCTTCTTACATACTC
CATCAGACACTGGAGTCTCCTTTCAGGCCATCAGCAGCATGGCGGACTTCTGGGATTTTGCCCAGGGCCC
ACTACTGGACAGTTTGTATTGGACCAAATGGTACAACAACCAGAGCCTGGGCCATGGCTCCCACTCCTTC
ATCTACTATGAGAACATGCTGCTGGGGGTTCCGAGGCTGCGGCAGCTAAAGGTCCGCAATGACTCCTGTG
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ACTCCCCTTTGGGCCCTTCAATGGCACAGCGTGGACATACCACTCGCAGGATGAGTTGGGGGGCTTCTCC
CACTGGGGCAGGCTCACAAGCTACAGCGGAGGTGGCTACTACCTGGACCTTCCAGGATCCCGACAGGGTA
GTGCAGAGGCTCTCCGGGCCCTTCAGGAGGGGCTGTGGCTGGACAGGGGCACTCGAGTGGTGTTCATCGA
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GGAGGTGCCATCCCATCCTGGCAAATCCGCACAGTCAAGCTGATCCGCTATGTCAGCAACTGGGACTTCT
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AGCCAAACACGTATGCAGACTTTGAGTTCCTCGCCTTCTGGCAGACACAGTACAACAACATGAATGCTGT
CAACCTCTTCTTCGCCTGGATCAAGATATTCAAGTACATCAGCTTCAACAAAACCATGACCCAGCTCTCC
TCCACGCTGGCCCGCTGTGCCAAGGACATCCTGGGCTTCGCCGTCATGTTCTTCATTGTTTTCTTCGCCT
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CCTGCCTACTTTGTCACCTATGTCTTCTTCGTCTTCTTCGTGCTCCTGAACATGTTCCTGGCCATCATCA
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GGGTTTCAGGAGAAGAATTCTACATGCTCACAAGGAGAGTTCTGCAGCTGGAGACTGTCCTGGAAGGAGT
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CCAGGCGTGAAGGAACAAGCTATTTGGAAGCACCCGCAGCCAGCCCCAGCTGTGACCCCAGACCCCTGGG
GAGTCCAGGGTGGGCAGGAGAGTGAGGTTCCCTATAAAAGAGAAGAGGAAGCCTTAGAGGAGAGGAGACT
CTCCCGTGGTGAGATTCCAACGTTGCAGAGGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

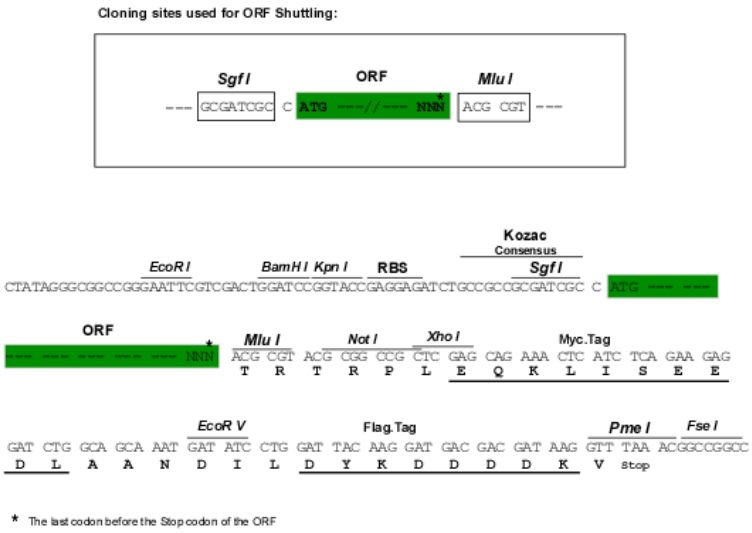
>RC234845 representing NM_001253837
Red=Cloning site Green=Tags(s)

MNPRRRHTGPRCPAAASISVKASEASLPCPLGLWGTTLTENTAENRELYIKTTLRELLVYIVFLVDICLL
TYGMTSSSAYYYTKVMSELFLHTPSDTGVSFQAISSMADFWDFAQGPLLDSLYWTKWYNNQSLGHGSHSF
IYYENMLLGVPRLRQLKVRNDSCVVHEDFREDILSCYDVYSPDKEEQLPFGPFNGTAWTYHSQDELGGFS
HWGRLTSYSGGGYYLDLPGSRQGSAEALRALQEGLWLDRGTRVVFIDFSVYNANINLFCVLRLVVEFPAT
GGAIPSWQIRTVKLIRYVSNWDFFIVGCEVIFCVFIFYYVVEEILELHIHRLRYLSSIWNILDLVVILLS
IVAVGFHIFRTLEVNRLMGKLLQQPNTYADFEFLAFWQTQYNNMNAVNLFFAWIKIFKYISFNKTMTQLS
STLARCAKDILGFAVMFFIVFFAYAQLGYLLFGTQVENFSTFIKCIFTQFRIILGDFDYNAIDNANRILG
PAYFVTYVFFVFFVLLNMFLAIINDTYSEVKEELAGQKDELQLSDLLKQGYNKTLLRLRLRKERVSDVQK
VLQGGEQEIQFEDFTNTLRELGHAEHEITELTATFTKFDRDGNRILDEKEQEKMRQDLEEERVALNTEIE
KLGRSIVSSPQGKSGPEAARAGGWVSGEEFYMLTRRVLQLETVLEGVVSQIDAVGSKLKMLERKGWLAPS
PGVKEQAIWKHPQPAPAVTPDPWGVQGGQESEVPYKREEEALEERRLSRGEIPTLQRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001253837

ORF Size: 2274 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001253837.2

RefSeq Size: 3082 bp

RefSeq ORF: 2277 bp

Locus ID: 9033

UniProt ID: Q9P0L9

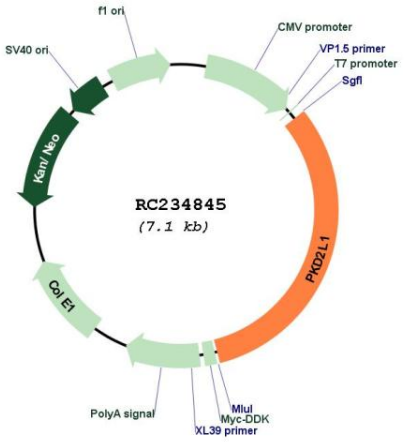
Cytogenetics: 10q24.31

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

MW: 87.4 kDa

Gene Summary: This gene encodes a member of the polycystin protein family. The encoded protein contains multiple transmembrane domains, and cytoplasmic N- and C-termini. The protein may be an integral membrane protein involved in cell-cell/matrix interactions. This protein functions as a calcium-regulated nonselective cation channel. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC234845