

Product datasheet for **RG234845**

PKD2L1 (NM_001253837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKD2L1 (NM_001253837) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PKD2L1
Synonyms:	PCL; PKD2L; PKDL; TRPP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG234845 representing NM_001253837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCCAGGAGACGGCATACAGGACCCAGGTGTCAGCTGCTGCCTCCATATCTGTCAAGGCATCAG
 AGGCATCTCTCCATGCCCTTAGGACTTTGGGAACAACCCTGACTGAGAACACAGCTGAGAACCAGGGA
 ACTTTATATCAAGACCACCCTGAGGGAGCTGTTGGTATATATTGTGTTCCCTGGTGGACATCTGTCTACTG
 ACCTATGGAATGACAAGCTCCAGTGCTTACTACTACACAAAGTGATGTCTGAGCTCTTCTTACATACTC
 CATCAGACACTGGAGTCTCCTTTAGGCCATCAGCAGCATGGCGGACTTCTGGGATTTTGCCAGGGCCC
 ACTACTGGACAGTTTGTATTGGACCAAATGGTACAACAACCAGAGCCTGGGCCATGGCTCCCACTCCTTC
 ATCTACTATGAGAACATGCTGCTGGGGTTCGAGGCTGCGGCAGCTAAAGGTCCGCAATGACTCCTGTG
 TGGTGCATGAAGACTTCCGGGAGGACATTTCTGAGCTGCTATGATGTCTACTCTCCAGACAAGAAGAACA
 ACTCCCTTTGGCCCTCAATGGCACAGCGTGGACATACCCTCGCAGGATGAGTTGGGGGCTTCTCC
 CACTGGGGCAGGCTCACAAAGCTACAGCGGAGGTGGCTACTACCTGGACCTTCCAGGATCCCAGAGGGTA
 GTGCAGAGGCTCTCCGGGCCCTCAGGAGGGGCTGTGGCTGGACAGGGGCACTCGAGTGGTGTTCATCGA
 CTTCTCAGTCTACAATGCCAATATCAATCTTTCTGTGCTGAGGCTGGTGGTGGAGTTTCCAGCTACA
 GGAGGTGCCATCCCATCTGGCAAATCCGCACAGTCAAGCTGATCCGCTATGTCAGCAACTGGGACTTCT
 TTATCGTTGGCTGTGAGGTATCTTCTCGCTTTCATCTTCTACTATGTGGTGAAGAGATCCTGGAGCT
 CCACATTCACCGCTTCGCTACCTCAGCAGCATCTGGAACATACTGGACCTGGTGGTCACTTGTCTCC
 ATTTGGCTGTGGCTTCCACATATTCCGAACCCTCGAGGTGAATCGGCTCATGGGAAGCTCCTGCAGC
 AGCCAAACAGTATGCAGACTTTGAGTTCTCGCCTTCTGGCAGACACAGTACAACAACATGAATGCTGT
 CAACCTCTTCTCGCCTGGATCAAGATATTCAAGTACATCAGCTTCAACAAAACCATGACCCAGCTCTCC
 TCCACGCTGGCCCGCTGTGCCAAGGACATCCTGGGCTTCGCCGTATGTTCTTATTGTTTTCTTCGCT
 ATGCCCAACTCGGCTACCTGCTTTTCGGGACCCAAAGTGGAAAACCTTAGCACTTTCATCAAGTGCATTTT
 CACTCAGTTCGGATAATCCTCGGGACTTTGACTACAATGCTATCGACAATGCCAACCGCATCCTGGGC
 CCTGCCTACTTTGTACCTATGTCTTCTCGTCTTCTTCGTGCTCCTGAACATGTTCTGGCCATCATCA
 ATGACACATATTCAGAGGTCAAGGAGGAGCTGGCTGGACAGAAGGATGAGCTGCAACTTCTGACCTCCT
 GAAACAGGGCTACAACAAGACCTACTAAGACTGCGTCTGAGGAAGGAGAGGGTTTCGGATGTGCAGAAG
 GTCTGCAGGGTGGGAGCAGGAGATCCAGTTTGAGATTTACCAACACCTTAAGGGAAGTGGGACACG
 CAGAGCATGAAATCACTGAGCTCACGGCCACCTTACCAAGTTTGACAGAGATGGGAATCGTATTCTGGA
 TGAGAAGGAACAGGAAAAATGCGACAGGACCTGGAGGAAGAGAGGGTGGCCCTCAACACTGAGATTGAG
 AAAGTAGGCCGATCTATTGTGAGCAGCCACAAGGCAAATCGGGTCCAGAGGCTGCCAGAGCAGGAGGCT
 GGGTTTCAGGAGAAGAATTCTACATGCTACAAGGAGAGTTTCTGCAGCTGGAGACTGTCTTGAAGGAGT
 AGTGTCCAGATTGATGCTGTAGGCTCAAAGCTGAAAATGCTGGAGAGGAAGGGTGGCTGGCTCCCTCC
 CCAGGCGTGAAGGAACAAGCTATTTGGAAGCACCCGACCCAGCCAGCTGTGACCCAGACCCCTGGG
 GAGTCCAGGGTGGCAGGAGAGTGAGTTCCCTATAAAAGAGAAGAGGAAGCCTTAGAGGAGAGGAGACT
 CTCCCGTGGTGAATCCAACGTTGCAGAGGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234845 representing NM_001253837
Red=Cloning site Green=Tags(s)

```
MNPRRRHTGPRCPAAASISVKASEASLPCPLGLWGTTLTENTAENRELYIKTTLRELLVYIVFLVDICLL
TYGMTSSSAYYYTKVMSEFLHTPSDTGVSFQAISSMADFWDFAQGPLLDSL YWTKWYNNQSLGHGSHSF
IYYENMLLGVPRLRQLKVRNDSVVHEDFREDILSCYDVYSPDKEEQLPFGPFNGTAWTYHSQDELGGFS
HWGRLTSYSGGGYYLDLPGSRQGSAEALRALQEGLWDRGTRVVFIDFSVYNANINLFCVLRLLVVEFPAT
GGAIPSWQIRTVKLI RYVSNWDFDIVGCEVIFCVFIFYVYVVEEILELHIHRLRYLSSIWNILDLVVILLS
IVAVGFHIFRTLEVNRLMGKLLQQPNTYADFEFLAFWQTQYNNMNAVNLFFAWIKIFKYISFNKMTQLS
STLARCAKDILGFVAMFFIVFFAYAQLGYLLFGTQVENFSTFIKCI FTQFRIILGDFDYNAIDNANRILG
PAYFVTVYVFFVFLNMFLAIINDTYSEVKEELAGQKDELQSDLLKQYGNKTLRLRLRKERVSDVQK
VLQGGQEIQFEDFTNLRGLHAEHEITELTATFTKFD RDGNRILDEKEQEKMRQDLEERVALNTEIE
KLGRSIVSSPQKSGPEAARAGGWVSGEEFYMLTRRVLQLETVLEGVVSQIDAVGSKLMLERKGLWAPS
PGVKEQAIWKHPQPAPAVTPDPWGVQGGQSEVPYKREEEALEERRLSRGEIPTLQRS
```

TRTRPLE - GFP Tag - V

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

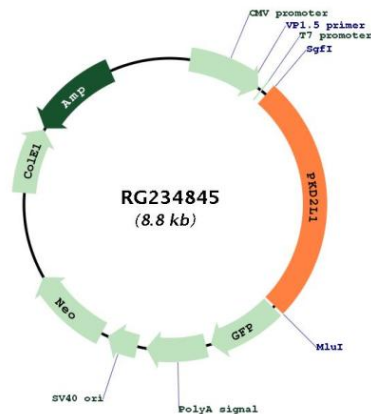
UniProt ID: [Q9P0L9](#)

Cytogenetics: 10q24.31

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

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 RG234845