

Product datasheet for **RG239133**

PKD2L2 (NM_001300921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKD2L2 (NM_001300921) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PKD2L2
Synonyms:	TRPP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239133 representing NM_001300921.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGAGGCGTCACGGTGGCACCGAGGCGGGGCTTCGAAACATAAGTTGCATTACAGAAAGGAAGTA
GAAATTACAACCACACTTCAGGAATTGTACTCTACTTTATTTTTTAAATAAACCTATGTATATTGACT
TTTGGGATGGTAAACCCACATATGTATTACTTAAACAAGTTATGTCATCTCTATTTTTGGACACTTCT
GTGCCTGGTGAAGAAAGAACCAACTTTAAGTCCATTTCGACGATAACTGATTTTTGGAAGTTTATGGAA
GGACCCCTTTTGAAGGTCTGTACTGGGATTCATGGTACAATAACCAGCAGCTGTATAATTTAAAGAAC
AGCAGTCGCATCTACTATGAAAATATACTTCTAGGAGTCCCAGAGTTCGCAACTAAAAGTCCGCAAC
AACACATGCAAAGTCTATTCATCTTTTCAGTCTTTGATGAGTGAATGTTATGGCAAATACTTCTGCA
AATGAAGACCTCTAATTTTGGCCTTCAAATTAATACTGAATGGAGATTTCTACTTCTAATACCAAC
TCCCTTGGCACTGGGGATTTCTGGTGTACCAGAAATGGGGGATACATTTTCACTTTATCAAATCG
AAATCTGAAACAAAAACAAGTTCATTGACCTTCGACTGAACAGCTGGATCACAAGAGGGACTAGAGTT
ATTTTTATTGATTTTTCCCTTATATAATGCTAATGTAAATCTATTTTGTATTATCAGATTGGTGGCAGAA
TTCCCTGCAACTGGAGGAATACTTACTTTCATGGCAGTTTTACTCTGTGAAGCTCCTCAGATATGTTAGC
TACTATGACTATTTTTATTGCTTCTGTGAAATCACATTCTGTATTTTTCTTTTTGTCTTCAACACAAA
GAAGTCAAAAAATAAAAGAATTTAAGTCTGCCTATTTCAAAGTATTTGGAAGTGGCTAGAATTGCTA
CTTTTGTCTGTTGTTTTGTGGCTGTTTCTTCAACACATACTATAATGTACAAATTTTTCTTACTT
GGACAGCTGTTGAAAAGTACTGAAAATATTCAGATTTCTATTTTCTTGCATGCTGGCACATTTATTAC
AATAATAATAATTGCTATTACCATCTTTTTTGCATGGATAAAGATTTCAAATTCATAAGCTTTAACAAG
ACAATGTCTCAGCTGTCATCAACCTTGTCCCGTGTGTTAAAGACATAGTAGGATTTGCCATCATGTTT
TTATAAATATTCTTTGCTTATGCCAGTTAGGATTTCTGTTTTTGGATCACAAGTTGATGACTTTTTCC
ACTTTTCAAGAAATCCATATTTGCACAATTTCAAGTTGTTCTTGGAGATTTAATTTTTGCTGGTATTGAG
CAAGCCAATCCTATCTTGGGACCCATTTACTTTCATCACTTTTCTTTTTTGTGTTCTTTGCTCTGCTG
AATATGTTCTTGGCAATTAATAATGATACCTATTCTGAAGTAAAAGCTGACTATTCAATAGGCAGAAGG
CTAGATTTTGAAGTGGCAAAATGATTAACAGAGTTACAAAAATGTTCTCGAGAAATTCAGACTGAAG
AAAGCTCAAAAAGATGAAGACAAGAAAACCAAAGCAGCGGAGATTTGGCTGAACAAGCCAGAAGAGAA
GGCTTTGACGAAAATGAGATTCAAACGCAGAGCAGATGAAAAATGGAAAGAGAGGCTTGAGAAAAAG
TATTATTCTATGAAAATCAAGATGACTACCAGCTGTCACTCAAGAAGAATTTGAGAATTTTTTTTA
TATGCTGTGGAGCTGGAGAAGGAATTACACTACATCAATTTGAAGCTAAATCAAGTGGTGAAGAAAGTT
TCAGCTCTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239133
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAEASRWHRGGASKHKLHYRKEVEITTTLQELLLYFIFLINLCILTFGMVNPMMYYLNKVMSSFLDTS
VPEERTNFKSIKRSITDFWKFMEGPLLEGLYWDSWYNNQQLYNLKNSSRIYYENILLGVPVRVRLKVRN
NTCKVYSSFQSLMSECYGKYTSANEDLSNFGQLINTEWRYSTSNTPWHWFLGVYRNGGYIFTLSSK
KSETKNKFIDLRLNSWITRGRVIFIDFSLYNANVNLFCIIRLVAEFPATGGILTSWQFYSVKLLRYVS
YYDYFIASCEITFCIFLVFVTTQEVKKIKEFKSAYFKSIWNWLELLLLLLCFVAVSFNTYNNVQIFLLL
GQLLKSTEKYSDFYFLACWHIYNNIIAIIFFAWIKIFKFSFNKTMSSLSSTLRCVKDIVGFAIMF
FIIFFAYAQLGFLVFGSQVDDFSTFQNSIFAQFRIVLGFNFAGIQQANPILGPIYFIFTFVFFVLL
NMFLLAIINDTYSEVKADYSIGRRLLDFELGKMIKQSYKNVLEKFRLLKKAQKDEKTKGSGDLAEQARRE
GFDENEIQNAEQMKKWERLEKKYYSMEIQDDYQPVTTQEEFRELFLYAVELEKELHYINLKLNVVRRV
SAL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001300921

ORF Size: 1872 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).

RefSeq: [NM_001300921.2](#)

RefSeq Size: 2312 bp

RefSeq ORF: 1875 bp

Locus ID: 27039

UniProt ID: [Q9NZM6](#)

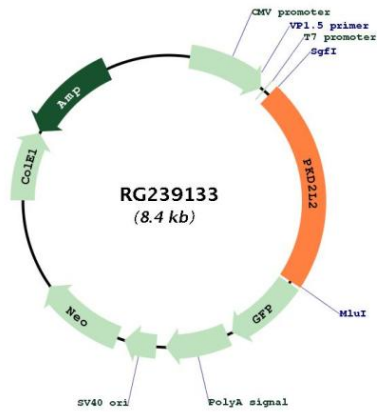
Cytogenetics: 5q31.2

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

MW: 74.2 kDa

Gene Summary: May function as a subunit of a cation channel and play a role in fertilization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG239133