

## Product datasheet for **RC239133**

### **PKD2L2 (NM\_001300921) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PKD2L2 (NM_001300921) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKD2L2
Synonyms:	TRPP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC239133 representing NM\_001300921  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGAGGCGTCACGGTGGCACCCGAGCGGGCTTCGAAACATAAGTTGCATTACAGAAAGGAAGTAG  
 AAATTACAACCACACTTCAGGAATTGTTACTCTACTTTATTTTTTAATAAACCTATGTATTGACTTT  
 TGGGATGGTAAACCCACATATGTATTACTTAAACAAGTTATGTCATCTCTATTTTTGGACACTTCTGTG  
 CCTGGTGAAGAAAGAACCACTTAAAGTCCATTGCGAGCATAACTGATTTTTGGAAGTTTATGGAAGGAC  
 CCCTTTTGAAGGTCTGTACTGGGATTCATGGTACAATAACCAGCAGCTGTATAATTTAAAGAACAGCAG  
 TCGCATCTACTATGAAAATATACTTCTAGGAGTCCCAGAGTTCGCACTAAAAGTCCGCAACAACACA  
 TGCAAAGTCTATTCATCTTTTCAGTCTTGTAGTGAATGTTATGGCAAATATACTTCTGCAAATGAAG  
 ACCTCTCTAATTTGGCCTTCAAATTAATACTGAATGGAGATTTCTACTTCTAATACCAACTCCCCTTG  
 GCACTGGGGATTTCTTGGTGTACCAGAAATGGGGGATACATTTTCACTTTATCAAAATCGAAATCTGAA  
 ACCAAAAACAAGTTCATTGACCTTCGACTGAACAGCTGGATCACAAAGAGGGACTAGAGTTATTTTTATTG  
 ATTTTTCTTATATAATGCTAATGTAATCTATTTTGTATTATCAGATTGGTGGCAGAATCCCTGCAAC  
 TGGAGGAATACTTACTTCATGGCAGTTTTACTCTGTGAAGCTCCTCAGATATGTTAGCTACTATGACTAT  
 TTTATTGCTTCTGTGAAATCACATTCTGTATTTTTCTTTTGTCTTCAACAACAAGAAGTCAAAAAA  
 TAAAGAATTTAAGTCTGCCTATTTCAAAGTATTTGGAAGTGGCTAGAATTGCTACTTTTGTCTGTGTG  
 TTTTGTGGCTGTTTCTTCAACACATACTATAATGTACAAATTTTCTTACTTGGACAGCTGTTGAAA  
 AGTACTGAAAAATATTCAGATTTCTATTTCTTGCATGCTGGCACATTTATTACAATAATATAATTGCTA  
 TTACCATCTTTTGCATGGATAAAGATATTCAAATTCATAAGCTTTAACAAGACAATGCTCAGCTGTC  
 ATCAACCTTGCCCGTTGTGTTAAAGACATAGTAGGATTTGCCATCATGTTTTTATAATATTCTTTGCT  
 TATGCCAGTTAGGATTTCTGTTTTGGATCACAAAGTTGATGACTTTTCCACTTTTCAAGATTCATAT  
 TTGCACAATTTCAATTGTTCTTGGAGATTTAATTTTGTGGTATTAGCAAGCCAATCCTATCTTGGG  
 ACCCATTTACTTCATCACTTTTCTTTTTGTGTTCTTGTCTGCTGAATATGTTCTTGGCAATTATT  
 AATGATACCTATTCTGAAGTGAAGCTGACTATTCATAGGCAGAAGGCTAGATTTTGAAGTGGCAAAA  
 TGATTAACAGAGTTACAAAAATGTTCTCGAGAAATTCAGACTGAAGAAAGCTCAAAAAGATGAAGACAA  
 GAAAACCAAGGCAGCGGAGATTTGGCTGAACAAGCCAGAAGAGAAGGCTTTGACGAAAAATGAGATTC  
 AACGCAGAGCAGATGAAAAATGGAAGAGAGGCTTGAGAAAAAGTATTATTCTATGAAATTCAGATG  
 ACTACCAGCTGTCACTCAAGAAGAATTTGAGAACTTTTTTATATGCTGTGGAGCTGGAGAAGGAATT  
 AACTACATCAATTTGAAGCTAAATCAAGTGGTGAAGGTTTTCAGCTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239133 representing NM\_001300921  
 Red=Cloning site Green=Tags(s)

MAEASRWHRGGASKHKLHYRKEVEITTTLQELLYFIFL INLCILTFGMVNPMMYLNKVMSSFLDTSV  
 PGEERTNFKSIRSITDFWKFMEGPLLEGLYWDSWYNNQQLYNLKNSSRIYYENILLGVPRVRQLKVRNNT  
 CKVYSSFQSLMSECYGKYTSANEDLSNFGQLINTEWRYSTSNTPWHWGFLGVYRNGGYIFTLKSKSE  
 TKNKFIDLRLNSWITRGTTRVIFIDFSLYNANVNLFCIIRLVAEFPATGGILTSWQFYSVKLLRYVSYDDY  
 FIASCEITFCIFLFFVFTTQEVKIKIEFKSAYFKSIWNWLELLLLLFCFVAVSFNTYYNVQIFLLGLLQ  
 STEKYSDFYFLACWHIYYNNIIAIIFFAWIKIFKIFSNKTMSSLSRCVKDIVGFAMFFIIFFA  
 YAQLGFLVFGSQVDDFSTFQNSIFAQFRIVLGDNFAGIQQANPILGPIYFIFTFVFFVLLNMFLLAI  
 NDTYSEVKADYSIGRRDLFELGMIKQSYKNVLEKFRLLKKAQKDEDKTKGSGDLAEQARREGFDENEIQ  
 NAEQMKKWKERLEKYYSMIEIQDDYQPVTEEFRELFYAVELEKELHYINLKLNVVRKVSAL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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\\_001300921.2](#)

RefSeq Size: 2312 bp

RefSeq ORF: 1875 bp

Locus ID: 27039

UniProt ID: [Q9NZM6](#)

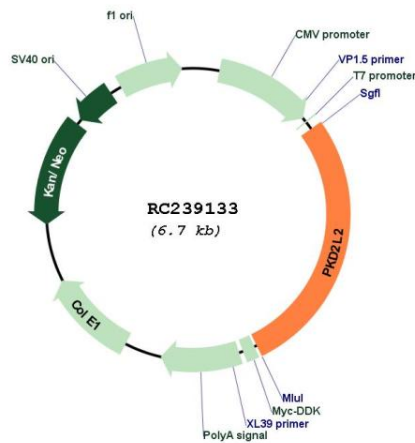
**Cytogenetics:** 5q31.2

**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 RC239133