

## Product datasheet for **RG234535**

### **PKD2L2 (NM\_001258448) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PKD2L2 (NM_001258448) 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:**

>RG234535 representing NM\_001258448  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGAGGCGTCACGGTGGCACCCGAGCGGGCTTCGAAACATAAGTTGCATTACAGAAAGGAAGTAG  
 AAATTACAACCACACTTCAGGAATTGTTACTCTACTTTATTTTTTAATAAACCTATGTATTGACTTT  
 TGGGATGGTAAACCCACATATGTATTACTTAAACAAGTTATGTCATCTCTATTTTTGGACACTTCTGTG  
 CCTGGTGAAGAAAGAACCACTTAAAGTCCATTGCAGCATAACTGATTTTTGGAAGTTTATGGAAGGAC  
 CCCTTTTGAAGGTCTGTACTGGGATTCATGGTACAATAACCAGCAGCTGTATAATTTAAAGAACAGCAG  
 TCGCATCTACTATGAAAATATACTTCTAGGAGTCCCAGAGTTCGCACTAAAAGTCCGCAACAACACA  
 TGCAAAGTCTATTCATCTTTTCAGTCTTTGATGAGTGAATGTTATGGCAAATATACTTCTGCAAATGAAG  
 ACCTCTCTAATTTTGGCCTTCAAATTAATACTGAATGGAGATTTCTACTTCTAATACCAACTCCCCTTG  
 GCACTGGGGATTTCTTGGTGTACCAGAAATGGGGGATACATTTTCACTTTATCAAAATCGAAATCTGAA  
 ACCAAAAACAAGTTCATTGACCTTCGACTGAACAGCTGGATCACAAAGAGGGACTAGAGTTATTTTTATTG  
 ATTTTTCTTATATAATGCTAATGTAATCTATTTTGTATTATCAGATTGGTGGCAGAATCCCTGCAAC  
 TGGAGGAATACTTACTTCATGGCAGTTTTACTCTGTGAAGCTCCTCAGATATGTTAGCTACTATGACTAT  
 TTTATTGCTTCTGTGAAATCACATTCTGTATTTTTCTTTTGTCTTCAACAACAAGAAGTCAAAAAA  
 TAAAAGAATTTAAGTCTGCCTATTTCAAAGTATTTGGAAGTGGCTAGAATTGCTACTTTTGTCTGCTGT  
 GAAAAGTACTGAAAATATTCAGATTTCTATTTCTTGCATGCTGGCACATTTATTACAATAATAAATT  
 GCTATTACCATCTTTTTGTCATGGATAAAGATATTCAAATTCATAAGCTTAAACAAGACAATGTCTCAGC  
 TGTCATCAACCTTGCCGTTGTGTTAAAGACATAGTAGGATTTGCCATCATGTTTTTTATAATATCTT  
 TGCTTATGCCAGTTAGGATTTCTGTTTTGGATCACAAAGTTGATGACTTTTCCACTTTTCAGAATTCC  
 ATATTTGCACAATTTCAATTGTTCTTGGAGATTTAATTTTGTGCTGATTTCAGCAAGCCAATCCTATCT  
 TGGGACCCATTTACTTCATCACTTTTCTTTTTGTGTTCTTTGCTGCTGAATATGTTCTTGGCAAT  
 TATTAATGATACCTATTCTGAAGTGAAGCTGACTATTCAATAGGCAGAAGGCTAGATTTTGAAGTGGC  
 AAAATGATTAACAGAGTTACAAAAATGTTCTCGAGAAATTCAGACTGAAGAAAGCTCAAAAAGTGAAG  
 ACAAGAAAACCAAGGCAGCGGAGATTTGGCTGAACAAGCCAGAAGAGAAGGCTTTGACGAAAATGAGAT  
 TCAAAACGCAGAGCAGATGAAAAATGGAAGAGAGGCTTGAGAAAAAGTATTATTCTATGAAATTCAA  
 GATGACTACCAGCTGTCACTCAAGAAGATTTGAGAATTTTTTATATGCTGTGGAGCTGGAGAAGG  
 AATTACACTACATCAATTTGAAGCTAAATCAAGTGGTGAGAAAGTTTCAGCTCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234535 representing NM\_001258448  
 Red=Cloning site Green=Tags(s)

MAEASRWHRGGASKHKLHYRKEVEITTTLQELLLYFIFLINLCILTFGMVNPMPHYLNKVMSSFLDTSV  
 PGEERTNFKSIRSITDFWKFMEGPLLEGLYWDWYNNQQLYNLKNSSRIYYENILLGVPRVRQLKVRNNT  
 CKVYSSFQSLMSECYGKYTSANEDLSNFGQLINTEWRYSTSNTPSPWHWGFVGVRNGGYIFTLKSKSE  
 TKNKFIDLRLNSWITRGTTRVIFIDFSLYNANVNLFCIIRLVAEFPATGGILTSWQFYSVKLLRYVSYDDY  
 FIASCEITFCIFLFFVTTQEVKKIKEFKSAYFKSIWNWLELLLLLLKSTEKYSDFYFLACWHIYNNII  
 AITIFFAWIKIFKIFISFNKTMSQLSSTLSRCVKDIVGFAIMFFIIFAYAYQLGFLVFGSQVDDFSTFQNS  
 IFAQFRIVLGFDFNFIQANPILGPIYFITFIFVFFVLLNMFLAIINDTYSEVKADYSIGRRDLDFELG  
 KMIKQSYKNVLEKFRLLKKAQKDEKTKGSGDLAEQARREGFDENEIQNAEQMKKWKERLEKKYYSMEIQ  
 DDYQPVTTQEEFRELFLYAVELEKELHYINLKLNVVRKVSAL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001258448

**ORF Size:** 1806 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\\_001258448.2](#)

**RefSeq Size:** 2260 bp

**RefSeq ORF:** 1809 bp

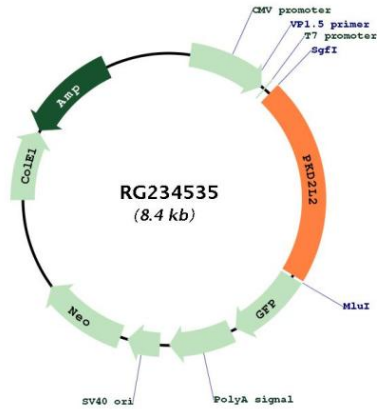
**Locus ID:** 27039

**UniProt ID:** [Q9NZM6](#)

**Cytogenetics:** 5q31.2

**Protein Families:** Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane  
**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 RG234535