

Product datasheet for **MC221408**

Pkd2l1 (NM_181422) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkd2l1 (NM_181422) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pkd2l1
Synonyms:	B830002B15; BC046386; PCL; PKD2L; PkdI; TRPP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221408 representing NM_181422
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATAGTATGGAAAGCCCAAGAATCAGGAGCTACAAACCCTGGGAACAGAGCTGGGACAATCCTG
 CCTACAGCGACCTCCTTCCCCGAACAGGACGCTGAGGATCTGCACTGTCTCCAGTGTGGCTCTCCCTGA
 GACTCAACCCAAAAAGCCAGAAGTCAGATGCCAGGAGAAGACACAGAGAACCCTGGTGTCCAGCTGCTGT
 CTCATATCTGTGCGAGCATCAGAGGACTGTGGGGACAACGCTGACTGAGAACACAGCCGAGAACAGGG
 AGCTTTATGTCAAGACCACCTGAGGGAGCTTGTGGTATACATAGTGTTCCTCGTGGACATCTGTCTGTT
 GACCTACGGAATGACAAGTTCTAGTGCCTATTACTACCCAAAGTGATGTCTGAATTGTTCTACACACC
 CCATCCGACTCTGGAGTCTCTTCCAACCATCAGCAGCATGTCAGACTTCTGGGATTTTGTCTAGGGCC
 CACTCCTGGACAGTTTGTACTGGACAAAGTGGTACAACAACCAGAGCCTGGGGCGTGGCTCCCACTCCTT
 CATCTACTATGAGAACCTGCTCCTGGGAGCCCCAAGTTGCGGCAGCTGCGCGTGGCAATGACTCCTGT
 GTGGTTTATGAAGACTTCCGGGAGGACATTTTGAAGTGTATGATGTGTACTCGCCGGACAAGAAGATC
 AGCTCCCTTTGGACCTCAGAACGGCACAGCGTGGACATACCATTCCCAGAATGAGCTGGGTGGCTCCTC
 CCACTGGGGCAGGCTCACAAGCTACAGCGGGGGTGGCTACTACTTGGATCTTCCAGGATCCCAGAACGC
 AGTGCAGAGGCCCTCCAAGGACTCCAGGAGGGACTGTGGCTGGACAGGGGCACTCGGGTGGTCTTTATCG
 ACTTCTCCGTCTACAATGCCAACATCAATCTTTTCTGTATTCTGAGACTGGTGGTAGAGTTTCCAGCCAC
 AGGAGGGACCATCCATCCTGGCAGATCCGCACAGTTAAGCTGATCCGCTATGTGAATAACTGGGACTTC
 TTCATTGTGGGCTGTGAAGTTGTCTTCTGTGTCTTCTCATCTTCTATTATGGTGGAGGAAATCCTGGAAA
 TCCACCTGCATCGGCTTCGCTACCTCAGCAGCTGGAACATTCTGGACCTGGTGGTCACTTGTCTCTC
 CATCGTGGCTGTGGGTTTCCACATATCCGAACCTGGAAGTGAACCGACTGATGGGAAAGCTTCTGCAA
 CAGCCAGACAGTATGCAGACTTTGAGTTCCTGGCCTTCTGGCAGACTCAGTACAATAACATGAACGCGG
 TCAACCTTTTCTTGCTGGATCAAGATATTCAAGTATATCAGCTTCAACAAGACCATGACACAGCTCTC
 CTCACCCCTGGCTCGCTGTGCCAAGGACATCCTGGGCTTTGCCATCATGTTCTTCATTGTCTTCTCGCT
 TACGCCAGCTTGGCTACCTGCTTTTGGGACCAAGTGGAAAACCTTAGCACTTTCGTCAGTGCATTT
 TCACTCAGTTCGGATAATCCTTGGGGATTTTACTACAATGCCATCGACAATGCCAACAGAATCCTGGG
 CCCTGTGACTTTGTACCTATGTCTTCTCGTCTTCTCGTGTCTGAAATGTTCTTGGCCATCATC
 AACGACACATACTCCGAGGTCAAGGAGGAGCTGGCTGGCCAGAAGGATCAGTTGCAGCTTCTGACTTCC
 TGAACAGAGCTACAACAAGACCTACTAAGGCTGCGCCTGAGGAAAGAGCGGGTTTCTGATGTGCAGAA
 GGTCTGAAGGGTGGGAACAGAGATCCAGTTTGAAGATTTACCAGCACCTTGAGGAACTGGGGCAC
 GAGGAGCACGAGATCACCGCTGCCTTACCAGGTTTGTACAGGATGGGGACCACATACTGGATGAGGAGG
 AGCAGGAACAGATGCGGCAGGGACTGGAAGAGGAGAGGGTACCCTCAATGCTGAGATTGAGAACCTAGG
 CCGGTCTGTTGGACACAGCCCCAGGCGAATTGGGCGCGGAGGCTGCCAGAGGACAAAGCTGGGTTTCT
 GGAGAAGAATTCGACATGCTCACAAGGAGAGTTCTGCAGCTGCAGTGTGTTCTGGAAGGAGTTGTGTCC
 AGATTGATGCTGAGGCTCAAAGCTGAAGATGCTGGAGAGGAAAGGGGAGCTGGCTCCCTCCCAGGAAT
 GGGGAACAGCTGTTTGGGAGAACCTGTATAATCCGTCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_181422
Insert Size: 2283 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_181422.3 , NP_852087.2
RefSeq Size:	3321 bp
RefSeq ORF:	2283 bp
Locus ID:	329064
UniProt ID:	A2A259
Cytogenetics:	19 36.91 cM
Gene Summary:	Pore-forming subunit of a heteromeric, non-selective cation channel that is permeable to Ca(2+) (PubMed:16891422, PubMed:15548533, PubMed:19464260, PubMed:20538909, PubMed:21185261, PubMed:22420714, PubMed:25820328, PubMed:28904867, PubMed:29567962). Pore-forming subunit of a calcium-permeant ion channel formed by PKD1L2 and PKD1L1 in primary cilia, where it controls cilium calcium concentration, but does not affect cytoplasmic calcium concentration (PubMed:24336288, PubMed:24336289). The channel formed by PKD1L2 and PKD1L1 in primary cilia regulates sonic hedgehog/SHH signaling and GLI2 transcription (PubMed:24336288). Pore-forming subunit of a channel formed by PKD1L2 and PKD1L3 that contributes to sour taste perception in gustatory cells (PubMed:16891422, PubMed:16929298, PubMed:20406802, PubMed:21098668, PubMed:21625513). The heteromeric channel formed by PKD1L2 and PKD1L3 is activated by low pH, but opens only when the extracellular pH rises again (PubMed:18535624, PubMed:19464260, PubMed:20538909, PubMed:20406802, PubMed:22420714, PubMed:28904867, PubMed:29567962). May play a role in the perception of carbonation taste (PubMed:19833970). May play a role in the sensory perception of water, via a mechanism that activates the channel in response to dilution of salivary bicarbonate and changes in salivary pH (PubMed:28553944).[UniProtKB/Swiss-Prot Function]