

Product datasheet for MC225202

Pkd1I3 (NM_181544) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkd1I3 (NM_181544) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pkd1I3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225202 representing NM_181544 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGCTCTTGCAGAGGCGGTCTGGCTCTGGCTGTACATTAGAATCGGTGTCATTCTGGTGATATTTGG
GACGTAACCAAGCATCCGGGAGCAACATGGGGAAACAGCTGCTATCAGCTTAACAGACTTTTCTGTGA
CTTCCAGGAAGCAGATAACTACTGCCACGCCAGAGAGGAGCCCTAGCCACACGTGGAACCCCAAGCTT
CGGGTTTTCTAAAAAGCTTCTGAATGAAGAAACAGTGTGGTGGTTCAGGGGAAACCTGACGCTGCCCG
GATCGCATCCAGGATAAATCAGACAGGAGGTGATGACGTCTTAAGGAACCAAAAGCCTGGCGAGTGCC
TTCCGTGGTCACACACTTAATGCTGTCTTCTCAAGATGGAACCTGTGCATAGAGAAGCATCATTTCATT
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TACCCATGAAAAGAAGAGGAGCTGAGACAGAGAGACATATGATCCAGGAAATGGCCCCGTTAGCCAT
GTGTCACCAACCCGCTCCTCCTGAGCTTTTGGAGACATTGTGCTTTCCATTGACCCAGCTTCTTCAGCA
CCTCCAAAAGCCACACACAGGATGACAATCACATCCCTAACTGGAAGGCCACAGGTGACATCAGACACAC
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CCTGCATCCAGCAGCCACCACAGGGGACATTAGACACACCTTCACTAGCAGCCACCACAGGGGACAT
CAGACACACCTGCATCCAGCAGCCACCACAGGGGACATCAGAGACACCTGCATCCAACAGCCACCACA
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TCCAGCAGCCCAACAAACATGACATCAGACACACCTGCATCCAGCAGCCCAACAAACATGACATCAGACA
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TGCCCCAGCTTCTTTCATCCAGGCTGCCTGGCCCCCTGCTCTTGTGTTGTGAGTCCCCTCTCTTACACA
GGTGGTCAAGGAATTAAGGAACTGTGGGATTCTGCTCAGGAGAAATACACAGCTGCTCTCGGAGTGT
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ACTTAGAAGACGAAGGCTGTACCAGCAGACAGAATCCACTGGGAAGACGCAGTGTCTGAAAACCATTA
CCATTTCTGCGCTACCTTCTCAACTTCTGCGGAGACTGAAAGCGCATTTAGAGGCTCTTGGTGTACT
CAGGATCACCAGTCTTGTGATTTCTCAGAAGCAGTCAGCCAACCTTCAAACCTCCAGGAACCTCTGGAGA
CACAGACTCTCCGAGAGGGCCAGGCCATGCAGGCATTCCACCAGTTTCCCATCCTCAGCCCAGGAGA
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ATCAGCCTGGCCTCGGCTTTTTTATAACGCTCTATAGCTTGGAGTTGGACAAAGACCAAGCCACCAGCT
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GACGGTGGTACTCTGGTGCAAATCCTCTTCTGACCCTGCTGATGACTACCGTCTATTCTGCAAAGGAC
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TTCCAGGATCTCTCCACAAGCAAATGAAGTCGCTCCCAACATCAGGAGGACAGAGAACTATGGGG

CTGGCTGGGTCCCCCTGACACAAACATCACAAAAGTAGACAGTATTTGGCATTATCAGAATCAGGAGTC
 GCTGGGAGGCTATCCCATCCAAGGGGAGCTAGCCACTTACTCAGGAGGAGGCTATGTTGTGAGGCTTGA
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 AAGCCCTCTTTGTAGAATTCACGGTCTTCAATGCTAATGTGAATCTGCTCTGTGCGGTGACCCTCATCTT
 GGAATCCAGTGGTGTGGGACTTTCCTCACCTCCCTGCAACTGGACAGTTAACTTCCCTCAGTCATCA
 GAGAGGGGCTTCGCCTGGATCGTCTCACAGGTCGTCTACTACCTTCTCGTCTGTTACTATGCCTTCATCC
 AGGGCTGTCGGCTGAAGCGGCAGAGGCTGGCGTTCTTCACTAGGAAAAGGAACCTCTGGACACAAGCAT
 CGTCCTCATTAGCTTCAGCATCCTGGCCCTCAGCATGCAGAGCCTCTCTACTTCAAAAAAGATGCAG
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 ACCTCAGGGGCTTCTGCTTCTCTTCGCAACTGTGCGGGTCTGGGACCTACTGCGACATCATGCCAGTT
 ACAGGTCAACAAGACACTGTCCAAGCCTGGGACGAGGTGCTGGGCTTTATACTGATCATCGTGGTC
 CTGTTAAGCAGCTATGCCATGACTTTCAACCTGCTGTTTGGATGGAGCATCTCTGACTACCAGAGCTTCT
 TCAGATCTATAGTACTGTTGTTGGCCTTTGATGGAACTTCAAAGCACAAGGAGGTTATTGCTCTATA
 CCCAATCTGGGCTCCCTTTTGGTTCTCAGTAGCATCATCTTGATGGGACTTGTGATCATTAACTTTTT
 GTTTCTGCCATTCTCATTGCCTTTGGGAAAGAAAGGAAGCCTGTGAGAAAGAAGCTACTGACAGATA
 TGTTACTACAAAAGCTCTCAAGTCTGTTAGGAATCCGCCTGCACCAGAATCCATCTGAGGAACACGCTGA
 CAACACTGGGTATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_181544

Insert Size:

6456 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:

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_181544.2, NP_853522.2

RefSeq Size:

6456 bp

RefSeq ORF:

6456 bp

Locus ID:

244646

UniProt ID:

Q2EG98

Cytogenetics:

8 D3

Gene Summary:

Component of a calcium channel. May act as a sour taste receptor by forming a calcium channel with PKD1L3 in gustatory cells; however, its contribution to sour taste perception is unclear in vivo and may be indirect.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) has multiple differences in the coding region and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a shorter protein (isoform b) that has a distinct C-terminus, compared to isoform a.