OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC206480

PKD2L1 (NM_016112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKD2L1 (NM_016112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKD2L1
Synonyms:	PCL; PKD2L; PKDL; TRPP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206480 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGCTGTGGGAAGTCCTGAGGGGCAGGAGCTGCAAAAGCTGGGGAGTGGAGCCTGGGACAACCCCG
CCTACAGTGGTCCCCCTTCCCCACACGGGACGCTGAGAGTCTGCACCATCTCCAGCACGGGGCCTCTCCA
GCCCCAACCCAAGAAGCCTGAAGATGAACCCCAGGAGACGGCATACAGGACCCAGGTGTCCAGCTGCTGC
CTCCATATCTGTCAAGGCATCAGAGGACTTTGGGGAACAACCCTGACTGAGAACACAGCTGAGAACCGGG
AACTTTATATCAAGACCACCCTGAGGGAGCTGTTGGTATATATTGTGTTCCTGGTGGACATCTGTCTACT
GACCTATGGAATGACAAGCTCCAGTGCTTATTACTACACCAAAGTGATGTCTGAGCTCTTCTTACATACT
CCATCAGACACTGGAGTCTCCTTTCAGGCCATCAGCAGCATGGCGGACTTCTGGGATTTTGCCCAGGGCC
CACTACTGGACAGTTTGTATTGGACCAAATGGTACAACAACCAGAGCCTGGGCCATGGCTCCCACTCCTT
CATCTACTATGAGAACATGCTGCTGGGGGTTCCGAGGCTGCGGCAGCTAAAGGTCCGCAATGACTCCTGT
GTGGTGCATGAAGACTTCCGGGAGGACATTCTGAGCTGCTATGATGTCTACTCTCCAGACAAAGAAGAAC
AACTCCCCTTTGGGCCCTTCAATGGCACAGCGTGGACATACCACTCGCAGGATGAGTTGGGGGGCTTCTC
CCACTGGGGCAGGCTCACAAGCTACAGCGGAGGTGGCTACTACCTGGACCTTCCAGGATCCCGACAGGGT
AGTGCAGAGGCTCTCCGGGCCCTTCAGGAGGGGCTGTGGCTGGACAGGGGCACTCGAGTGGTGTTCATCG
ACTTCTCAGTCTACAATGCCAATATCAATCTTTTCTGTGTCCTGAGGCTGGTGGTGGAGTTTCCAGCTAC
AGGAGGTGCCATCCCATCCTGGCAAATCCGCACAGTCAAGCTGATCCGCTATGTCAGCAACTGGGACTTC
TTTATCGTTGGCTGTGAGGTCATCTTCTGCGTCTTCATCTTCTACTATGTGGTGGAAGAGATCCTGGAGC
TCCACATTCACCGGCTTCGCTACCTCAGCAGCATCTGGAACATACTGGACCTGGTGGTCATCTTGCTCTC
CATTGTGGCTGTGGGCTTCCACATATTCCGAACCCTCGAGGTGAATCGGCTCATGGGGAAGCTCCTGCAG
CAGCCAAACACGTATGCAGACTTTGAGTTCCTCGCCTTCTGGCAGACACAGTACAACAACATGAATGCTG
TCAACCTCTTCTTCGCCTGGATCAAGATATTCAAGTACATCAGCTTCAACAAAACCATGACCCAGCTCTC
CTCCACGCTGGCCCGCTGTGCCAAGGACATCCTGGGCTTCGCCGTCATGTTCTTCATTGTTTTCTTCGCC
TATGCCCAACTCGGCTACCTGCTTTTCGGGACCCAAGTGGAAAACTTTAGCACTTTCATCAAGTGCATTT
TCACTCAGTTCCGGATAATCCTCGGGGACTTTGACTACAATGCTATCGACAATGCCAACCGCATCCTGGG
CCCTGCCTACTTTGTCACCTATGTCTTCTTCGTCTTCTTCGTGCTCCTGAACATGTTCCTGGCCATCATC
AATGACACATATTCAGAGGTCAAGGAGGAGCTGGCTGGACAGAAGGATGAGCTGCAACTTTCTGACCTCC
TGAAACAGGGCTACAACAAGACCCTACTAAGACTGCGTCTGAGGAAGGAGAGGGTTTCGGATGTGCAGAA
GGTCCTGCAGGGTGGGGAGCAGGAGATCCAGTTTGAGGATTTCACCAACACCTTAAGGGAACTGGGACAC
GCAGAGCATGAAATCACTGAGCTCACGGCCACCTTCACCAAGTTTGACAGAGATGGGAATCGTATTCTGG
ATGAGAAGGAACAGGAAAAAATGCGACAGGACCTGGAGGAAGAGAGGGTGGCCCTCAACACTGAGATTGA
GAAACTAGGCCGATCTATTGTGAGCAGCCCACAAGGCAAATCGGGTCCAGAGGCTGCCAGAGCAGGAGGC
TGGGTTTCAGGAGAAGAATTCTACATGCTCACAAGGAGAGTTCTGCAGCTGGAGACTGTCCTGGAAGGAG
TAGTGTCCCAGATTGATGCTGTAGGCTCAAAGCTGAAAATGCTGGAGAGGAAGGGGTGGCTGGCTCCCTC
CCCAGGCGTGAAGGAACAAGCTATTTGGAAGCACCCGCAGCCAGCCCCAGCTGTGACCCCAGACCCCTGG
GGAGTCCAGGGTGGGCAGGAGAGTGAGGTTCCCTATAAAAGAGAAGAGGAAGCCTTAGAGGAGAGGAGAC
TCTCCCGTGGTGAGATTCCAACGTTGCAGAGGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206480 protein sequence
Red=Cloning site Green=Tags(s)

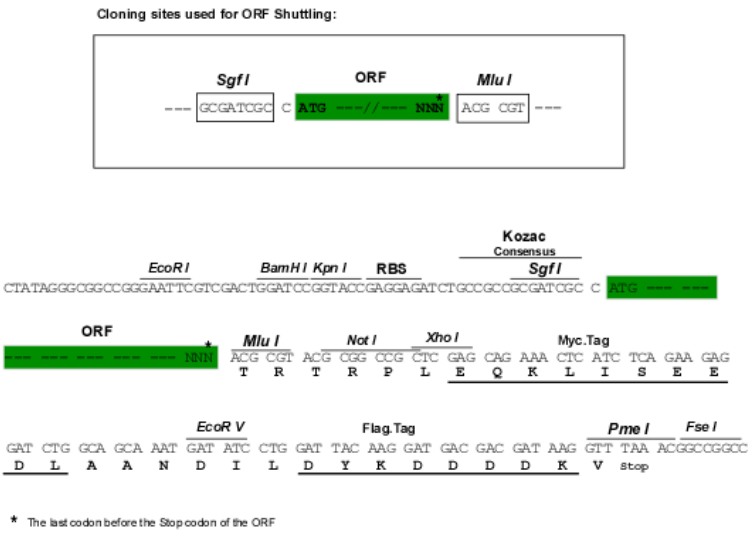
MNAVGSPEGQELQKLGSGAWDNPAYSGPPSPHGTLRVCTISSTGPLQPQPKKPEDEPQETAYRTQVSSCC
LHICQGIRGLWGTTLTENTAENRELYIKTTLRELLVYIVFLVDICLLTYGMTSSSAYYYTKVMSELFLHT
PSDTGVSFQAISSMADFWDFAQGPLLDSLYWTKWYNNQSLGHGSHSFIYYENMLLGVPRLRQLKVRNDSC
VVHEDFREDILSCYDVYSPDKEEQLPFGPFNGTAWTYHSQDELGGFSHWGRLTSYSGGGYYLDLPGSRQG
SAEALRALQEGLWLDRGTRVVFIDFSVYNANINLFCVLRLVVEFPATGGAIPSWQIRTVKLIRYVSNWDF
FIVGCEVIFCVFIFYYVVEEILELHIHRLRYLSSIWNILDLVVILLSIVAVGFHIFRTLEVNRLMGKLLQ
QPNTYADFEFLAFWQTQYNNMNAVNLFFAWIKIFKYISFNKTMTQLSSTLARCAKDILGFAVMFFIVFFA
YAQLGYLLFGTQVENFSTFIKCIFTQFRIILGDFDYNAIDNANRILGPAYFVTYVFFVFFVLLNMFLAII
NDTYSEVKEELAGQKDELQLSDLLKQGYNKTLLRLRLRKERVSDVQKVLQGGEQEIQFEDFTNTLRELGH
AEHEITELTATFTKFDRDGNRILDEKEQEKMRQDLEEERVALNTEIEKLGRSIVSSPQGKSGPEAARAGG
WVSGEEFYMLTRRVLQLETVLEGVVSQIDAVGSKLKMLERKGWLAPSPGVKEQAIWKHPQPAPAVTPDPW
GVQGGQESEVPYKREEEALEERRLSRGEIPTLQRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6237_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016112

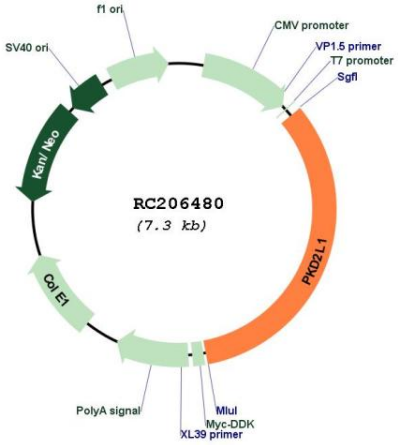
ORF Size: 2415 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

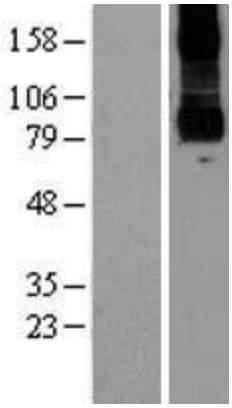
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_016112.3
RefSeq Size:	3060 bp
RefSeq ORF:	2418 bp
Locus ID:	9033
UniProt ID:	Q9P0L9
Cytogenetics:	10q24.31
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW:	92 kDa
Gene Summary:	This gene encodes a member of the polycystin protein family. The encoded protein contains multiple transmembrane domains, and cytoplasmic N- and C-termini. The protein may be an integral membrane protein involved in cell-cell/matrix interactions. This protein functions as a calcium-regulated nonselective cation channel. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC206480



Western blot validation of overexpression lysate (Cat# [LY414185]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206480 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).