

Product datasheet for **RC230473**

Protocadherin 21 (CDHR1) (NM_001171971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protocadherin 21 (CDHR1) (NM_001171971) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Protocadherin 21
Synonyms:	CORD15; PCDH21; PRCAD; RP65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230473 representing NM_001171971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCGCTGCCGGTGGGCCGCCCTGGCCCTGGGGCTGCTGCGCCTCTGCTTGCTCAGGCCAACTTCG
 CCCCGCACTTCTTCGACAACGGGTCGGCAGCACCAACGGAAACATGGCTCTGTTTCAGCCTCCAGAGGA
 CACCCCTGTAGGCTCTCACGTATACACCCTGAATGGGACAGACCCTGAGGGAGACCCCATCTCCTACCAC
 ATCAGCTTTGACCCAGCACTAGAAGCGTCTTTTCTGTTGACCCCACTTTTGAAACATCACCCCTGGTTG
 AAGAGCTGGACAGAGAGAGGGAAGATGAGATTGAAGCCATCATCAGCATTCTGATGGCCTGAATCTGGT
 GGCCGAAAAAGTCGTGATCCTGGTGACCGATGCCAATGATGAGGCGCCAGGTTCCATCCAGGAGCCTTAT
 GTTGCCCTGGTCCCGAGGACATACCTGCTGGGAGCATCATCTTAAGGTCCATGCAGTGGACAGGGACA
 CAGGCTCTGGAGGAGTGTACCTACTTCTGCAGAACCTGCACTCCCCATTTGCCGTGGACCGCCACAG
 CGGTGTGCTGCGCCTCCAGGCTGGGGCCACTCTGGACTACGAGAGTCCCGGACCCACTACATCACCGTG
 GTCGCCAAGGATGGCGGTGGGAGGCTTCATGGGGCTGATGTGGTGTCTCAGCCACCACCGGTACCGG
 TCAATGTGGAGGATGTTCAAGACATGGCCCTGTCTTCGTGGGCACACCCTACTATGGCTATGTGTACGA
 GGACACCCCTCCGGGCTCGGAGGTAAGAGTGGTCCGATGGATGGAGACCGGGGCAAACCCAATCGA
 ATTCTCTACAGCCTTGTAAATGGGAACGATGGAGCCTTTGAAATTAATGAGACATCTGGAGCCATCTCCA
 TCACTCAGAGCCCGCCAGCTCCAGAGAGAGGTGATGAGTGCATGTACAGGTGACTGAAATGAGCCC
 TGCGGGGAGCCCAGCTGCCAGGCCACCGTCCCAGTACCATCAGGATTGTGGACCTCAACAACCCCGG
 CCAACATTCTATGGAGAGAGCGGACCCCAAAACAGTTTGAAGTGTCCATGAATGAGCACCACCCACAGG
 GAGAGATCCTGCGGGCCCTCAAGATCACCGTCAATGACTCCGACCAGGGAGCCAATGCCAAATTTCAACT
 GCAGCTGGTGGGACCCAGGGGCATCTCCGAGTGGTCCACAGACAGTCCCTGAATGAAGCCCAAGTCACA
 ATCATTGTGGAGAACTCAGCTGCCATTGACTTTGAAAAGTCCAAAGTATTAACCTTCAAGCTCCTGGCTG
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 CAATGTCCCAAGTTCGACTCCCTCTACTACGTTGCCAGGATTCCTGAGAACGCCCCAGGGGGCTCCAGC
 GTGGTGGCTGTCACAGCTGTGGATCCAGATACAGGACCCGCGGCGAAGTGAATATTCACCTATGGGA
 CTGGGGCAGACCTCTTCTGATCCACCCATCCACTGGGCTTATCTACACCAGCCCTGGGCTAGCCTGGA
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 GAGGTGTTTATCACACTGCTGGATGTCAATGACCACCCCTCAGTTTGGAAAGAGCGTTTCAAGAAGA
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 AGATGCTGAGGTGAGAAGACTAAGGTACATGAAAAATAGTAACTCCCTGGTACAACAAAGTCAGTAAGA
 AAACAAAATTTAAGCCCAAGAAACCACATTCAGCCAGGGTCTGTTCTTGCATCCCCACTGCGAAATTG
 CCTTATTCAATCTGAGTAATGTGAATCTGTACTTAGAGTTTTTCAAGGGGCAGCCCAAGCATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230473 representing NM_001171971
 Red=Cloning site Green=Tags(s)

MRRRCRWAALALGLLLRLCLAQANFAPHFFDNGVVGSTNGNMALFSLPEDTPVGS HVYTLNGTDEPGDPI SYH
 ISFDPSTRSVFSVDPTFGNITLVEELDREREDEIEAIIISDGLNLVAEKVVILVTDANDEAPRFIQEPY
 VALVPEDIPAGSIIFKVHAVDRDTGSGGSVTYFLQNLHSPFAVDRHSGVLR LQAGATLDYERSRTHYITV
 VAKDGGGRLHGADV VFSATTTTVNVEDVQDMAPV FVGTPYYGYVYEDTLPGSEVLKVVAMDGDRGKPNR
 ILYSLVNGNDGAFEINETS GAISITQSPAQLQREYVELHVQVTEMSPAGSPAAQATVPVTIRIVDLNHP
 PTFYGESGPQNR FELSMNEHPPQGEILRGLKITVNDSDQGANAKFNLQLVGPGRIFRVVPQTVLNEAQVT
 IIVENSA AIDFEKSKVLTFKLLAVEVNTPEKFSSTADVVIQLLDTNDNVPKFDLSLYVARIPENAPGGSS
 VVAVTAVDPDTGPWGEVKYSTYGTGADLFLIHPSTGLIYTQPWASLDAEATARYNFYVKAEDMEGKYSVA
 EVFITLLDVNDHPPQFGKSVQKKT MVLGTPVKIEAIDEDAEPNNLVDYSITHAEPANVFDINSHTGEIW
 LKNSIRSLDALHNITPGRDCLWSLEVQAKDRGSPSFSTTALLKIDITDAEVRRLRYMKNSNFPGTTKSVR
 KP KF K P K K P H S S Q G L F L H P H C E I A L F N L S N V N L Y S R V F Q G A A Q A S

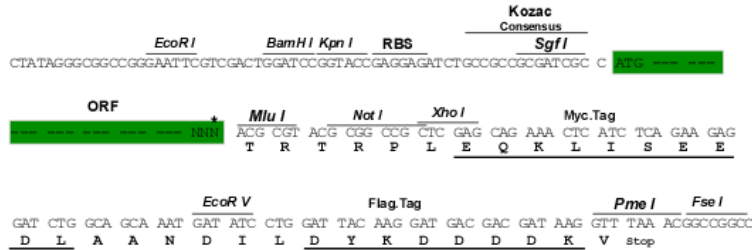
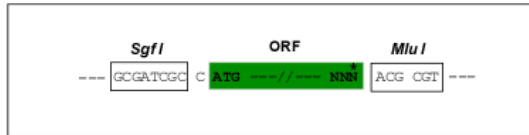
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



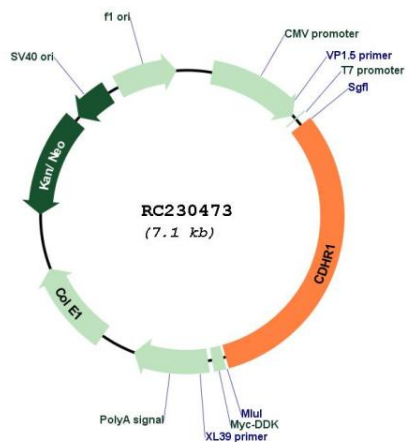
* The last codon before the Stop codon of the ORF

ACCN: NM_001171971

ORF Size: 2235 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_001171971.3
RefSeq ORF:	2238 bp
Locus ID:	92211
UniProt ID:	Q96JP9
Cytogenetics:	10q23.1
Protein Families:	Druggable Genome, Transmembrane
MW:	82 kDa
Gene Summary:	<p>This gene belongs to the cadherin superfamily of calcium-dependent cell adhesion molecules. The encoded protein is a photoreceptor-specific cadherin that plays a role in outer segment disc morphogenesis. Mutations in this gene are associated with inherited retinal dystrophies. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2013]</p>

Product images:



Circular map for RC230473