

Product datasheet for **RG230473**

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:	TurboGFP
Symbol:	Protocadherin 21
Synonyms:	CORD15; PCDH21; PRCAD; RP65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG230473 representing NM_001171971
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCGCTGCCGGTGGGCCGCCCTGGCCCTGGGGCTGCTGCGCCTCTGCTTGCTCAGGCCAACTTCG
CCCCGCACTTCTTCGACAACGGGGTCGGCAGCACCAACGAAACATGGCTCTGTTTCAGCCTCCAGAGGA
CACCCCTGTAGGCTCTCACGTATACACCCTGAATGGGACAGACCCTGAGGGAGACCCCATCTCCTACCAC
ATCAGCTTTGACCCAGCACTAGAAGCGTCTTTTCTGTTGACCCCACTTTTGAAACATCACCCCTGGTTG
AAGAGCTGGACAGAGAGAGGGAAGATGAGATTGAAGCCATCATCAGCATTCTGATGGCCTGAATCTGGT
GGCCGAAAAAGTCGTGATCCTGGTGACCGATGCCAATGATGAGGCGCCAGGTTCCATCCAGGAGCCTTAT
GTTGCCCTGGTTCCCGAGGACATACCTGCTGGGAGCATCATCTTAAGGTCCATGCAGTGGACAGGGACA
CAGGCTCTGGAGGAGTGTACCTACTTCTGCAGAACCTGCACTCCCCATTTGCCGTGGACCGCCACAG
CGGTGTGCTGCGCCTCCAGGCTGGGGCCACTCTGGACTACGAGAGTCCCGGACCCACTACATCACCGTG
GTCGCCAAGGATGGCGGTGGGAGGCTTCATGGGGCTGATGTGGTGTCTCAGCCACCACCGGTACCGG
TCAATGTGGAGGATGTTCAAGACATGGCCCTGTCTTCGTGGGCACACCCTACTATGGCTATGTGTACGA
GGACACCCCTCCGGGCTCGGAGGTAAGAGGTGGTCGCCATGGATGGAGACCGGGGCAAACCCAATCGA
ATTCTCTACAGCCTTGTAAATGGGAACGATGGAGCCTTTGAAATTAATGAGACATCTGGAGCCATCTCCA
TCACTCAGAGCCCGCCAGCTCCAGAGAGAGGTGATGAGCTGCATGTACAGGTGACTGAAATGAGCCC
TGCGGGGAGCCCAGCTGCCAGGCCACCGTCCCAGTACCATCAGGATTGTGGACCTCAACAACCCCGG
CCAACATTCTATGGAGAGAGCGGACCCCAAAACAGGTTTGAGCTGTCCATGAATGAGACCCACCCAGG
GAGAGATCCTGCGGGCCCTCAAGATCACCGTCAATGACTCCGACCAGGGAGCCAATGCCAAATTTCAACTT
GCAGCTGGTGGGACCCAGGGGCATCTCCGAGTGGTTCCACAGACAGTCCCTGAATGAAGCCCAAGTCACA
ATCATTGTGGAGAACTCAGCTGCCATTGACTTTGAAAAGTCCAAAGTATTAACCTTCAAGCTCCTGGCTG
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CAATGTCCCAAGTTCGACTCCCTCTACTACGTTGCCAGGATTCTGAGAACGCCCCAGGGGGCTCCAGC
GTGGTGGCTGTCACAGCTGTGGATCCAGATACAGGACCCGCGGCGAAGTGAATATTCACCTATGGGA
CTGGGGCAGACCTCTTCTGATCCACCCATCCACTGGGCTTATCTACACCAGCCCTGGGCTAGCCTGGA
CGCTGAGGCCACTGCCAGGTACAACCTTCTATGTGAAGGCAGAGGACATGGAAGGCAAGTACAGCGTAGCT
GAGGTGTTTATCACACTGCTGGATGTCAATGACCACCCCTCAGTTTGAAAGAGCGTTTCAAGAAGA
CGATGGTCTAGGACCCAGTGAATAAGGCCATAGACGAGGATGCAGAGGAACCAACAACCTGGT
GGACTATTCCATACCCATGCAGAGCCCGCAACGTGTTGACATCAATTCACACGCGGGGAGATCTGG
CTCAAGAATTCCATCCGCTCCCTGGATGCCCTGCACAACATCACACCTGGAAGGGACTGCCTATGGTCCC
TAGAGGTGCAGGCCAAGGACCGGGCTCCCATCCTTCAGCACCACAGCCTTACTCAAGATTGACATCAC
AGATGCTGAGGTGAGAAGACTAAGGTACATGAAAAATAGTAACTCCCTGGTACAACAAAGTCAGTAAGA
AAACAAAATTTAAGCCCAAGAAACCACATTCAGCCAGGGTCTGTTCTTGCATCCCCACTGCGAAATTG
CCTTATTCAATCTGAGTAATGTGAATCTGTACTTAGAGTTTTTCAAGGGGCAGCCCAAGCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230473 representing NM_001171971
 Red=Cloning site Green=Tags(s)

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MRRRCRWAALALGLLRLCLAQANFAPHFFDNGVVGSTNGNMALFSLPEDTPVGS HVYTLNGTDPEGDPISYH
ISFDPSTRSVFSVDPTFGNITLVEELDREREDEIEAIIISDGLNLVAEKVVILVTDANDEAPRFIQEPY
VALVPEDIPAGSIIFKVHAVDRDTGSGGSVTYFLQNLHSPFAVDRHSGVLR LQAGATLDYERSRTHYITV
VAKDGGGRLHGADV VFSATTTVTVNVEDVQDMAPV FVGTPYYGYVYEDTLPGSEVLKVVAMDGDRGKPNR
ILYSLVNGNDGAFEINETS GAISITQSPAQLQREYVELHVQVTEMSPAGSPAAQATVPVTIRIVDLN NHP
PTFYGESGPQNR FELSMNEHPPQGEILRGLKITVNDSDQGANAKFNLQLVGP RGI FRVVPQTVLNEAQVT
IIVENSA AIDFEKSKVLTFKLLAVEVNTPEKFSSTADVVIQLLDTNDNVPKFD SLYYVARIPENAPGGSS
VVAVTAVDPDTGPWGEVKYSTYGTGADLFLIHPSTGLIYTQPWASLDAEATARYNFYVKAEDMEGKYSVA
EVFITLLDVNDHPPQFGKSVQKKT MVLGTPVKIEAIDEDAEEPNNLVDYSITHAEPANVFDINSHTGEIW
LKNSIRSLDALHNITPGRDCLWSLEVQAKDRGSPSFSTTALLKIDITDAEVRRLRYMKNSNFP GTTKSVR
KPKFKPKKPHSSQGLFLHPHCEIALFNL SNVNLYSRVFQGAQAAS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

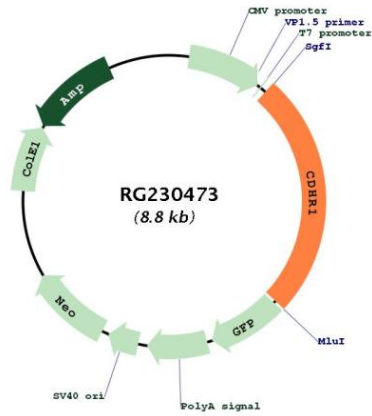


ACCN: NM_001171971

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:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001171971.3</p>
RefSeq Size:	<p>2698 bp</p>
RefSeq ORF:	<p>2238 bp</p>
Locus ID:	<p>92211</p>
UniProt ID:	<p>Q96JP9</p>
Cytogenetics:	<p>10q23.1</p>
Protein Families:	<p>Druggable Genome, Transmembrane</p>
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 RG230473