

Product datasheet for **RG230697**

PCLKC (CDHR2) (NM_001171976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCLKC (CDHR2) (NM_001171976) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDHR2
Synonyms:	PCDH24; PCLKC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230697 representing NM_001171976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCTATGGCTGTCTGCTTCTCCTTCTGCCCTCGTGGTGTCTGTGGCAGCCAACGTGGCCC
CGAAGTTCCTAGCCAACATGACGTCACTGATCCTGCCTGAGGACCTGCCTGTGGGTGCCAGGCCTTCTG
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GAGCACAGCGCCACCGGCTCTGTGGTCACCGACAGCATCCACGCCACGGACCCAGACACGGGCGCGTGGG
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 CACGGACCTG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230697 representing NM_001171976
 Red=Cloning site Green=Tags(s)

MAQLWLSCFLLPALVVSVAANVAPKFLANMTSVILPEDLPVGAQAFWLVAEDQDNDPLTYGMSGPNAYFF
 AVTPKTGEVKLASALDYETLYTFKVTISVSDPYIQVQREMLVIVEDRNDNAPVFQNTAFST SINETLPVG
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 ERAVGSASVQVLVRVSALVDYERQTAMAVQVATDSVSQNF SVAMVTIHLRDINDHRPTFPQSLYVLTVP
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 NFTVKEEDPGVLGVVKAWDADQTEANNRISFSLSGSGANYFMIRGLVLGAGWAEGLRLPPDVSLDYET
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 QLEIQLVNILCTKAGVDVGLCWGWF SVAANGSVYINQSKAIDYACDLVTLVVRACDLATDPGFQAYSN
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 IPFQGVFSIFTSSEADV FAGSIQPVTSLDSTLQGT YQVTVQARDRPSLGFLEATTTLNLFVDQSYRSR
 LQFSTPKEEVGANRQAINAALTQATRTTVYIVDIQDIDS AARARPHSYLDAYFVFPNGSALTLDEL SVMI
 RNDQDSL TQLLQLGLVVLG SQESQESDLSKQLISVIIGL GVALLLV L VIMTMAFVCVRKSYNRKLQAMKA
 AKEARKTAAGVMP SAPIPGTNMYNTERANPMLNLPNKDLGLEYLSPSNDLDSVSVNSLDDNSVDVDKNS
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TRTRPLE - GFP Tag - V

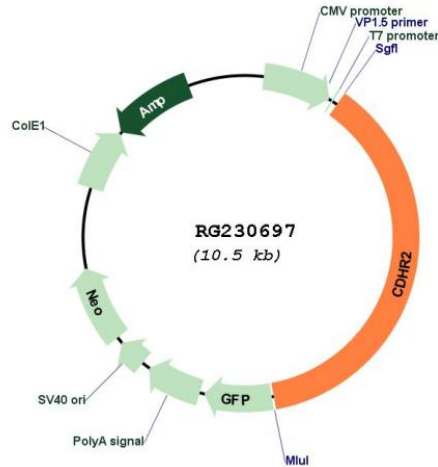
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171976

ORF Size: 3930 bp

OTI Disclaimer: 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_001171976.1](#), [NP_001165447.1](#)

RefSeq Size: 4313 bp

RefSeq ORF: 3933 bp

Locus ID: 54825

UniProt ID: [Q9BYE9](#)

Cytogenetics: 5q35.2

Protein Families: Transmembrane

Gene Summary: This gene is a member of the protocadherin family, which represents a subset of the larger cadherin superfamily. The members of the protocadherin family encode non-classical cadherins that function as calcium-dependent cell-cell adhesion molecules. This protocadherin represents a new candidate for tumor suppression. Alternatively spliced transcript variants that encode the same protein have been identified. [provided by RefSeq, Jan 2010]