

Product datasheet for **RG214524**

PCDH10 (NM_020815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH10 (NM_020815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH10
Synonyms:	OL-PCDH; PCDH19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG214524 representing NM_020815
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATTGTGCTATTATTGTTTGCCTTGCTCTGGATGGTGAAGGAGTCTTTTCCCAGCTTCACTACACGG
 TACAGGAGGAGCAGGAACATGGCACTTTTCGTGGGAATATCGCTGAAGATCTGGGTCTGGACATTACAAA
 ACTTTTCGGCTCGCGGTTTCAGACGGTGCCCAACTCAAGGACCCCTTACTTAGACCTCAACCTGGAGACA
 GGGGTGCTGTACGTGAACGAGAAAATAGACCGCGAACAATCTGCAAACAGAGCCCTCCTGTGTCTGC
 ACCTGGAGGTCTTTCTGGAGAACCCCTGGAGCTGTTCCAGGTGGAGATCGAGGTCTGGACATTAATGA
 CAACCCCTCTTTTCCCGAGCCAGACCTGACGGTGAATCTCTGAGAGCGCCACGCCAGGCACTCGC
 TTCCTTGGAGAGCGCATTGACCCAGACGTGGGCACCAACTCCTTGCAGGACTACGAGATCACCCCA
 ACAGCTACTTCTCCTGGACGTGACAGCCAGGGGATGGCAACCGATTTCGTGAGCTGGTCTGGAGAA
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 CGTGCAAGCCAAGGACCTGGGCCCAACGCCGTGCTGCGCACTGCAAGGTGCTAGTGGGAGTACTGGAT
 GCTAATGACAACGCGCCAGAGATCAGCTTCAGCACCGTGAAGGAAGCGGTGAGTGAGGGCGCGGCCCG
 CACTGTGGTGGCCCTTTTCAGCGTACTGACCCGCACTCAGAGGAGAATGGGCAGGTGCAGTGGCAG
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 GATGAGGGCGCCAACGCCAGCTTGCTACTCTATCCTCGAGTGCAGATCCAGGGCATGAGCGTCTTCA
 CCTACGTTTCTCAACTCTGAGAACGGTACTTGTACGCCCTGCGCTCCTTCGACTATGAGCAGCTGAA
 GGACTTCAGTTTTCAGGTGGAAGCCCGGACGCTGGCAGCCCAAGCGCTGGTGGTAACGCCACTGTC
 AACATCCTCATAGTGGATCAAAATGACAACGCCCTGCCATCGTGGCGCTCTACCAGGGCGCAACGGGA
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 CGCGGACGACGGCGAGAACGCCCGGCTCACTTACAGCATCGTGGCTGGCAACGAAATGAACCTCTTTCGC
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 AGCCTGATATCATCTCCAACGGAAGCATTTTGTCCAACGAGGTAAGGCTGAAGCGAAAGACCACCATCT
 CTCATCTCCTCCATCAGAAAGCCTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214524 representing NM_020815
 Red=Cloning site Green=Tags(s)

MIVLLLALLWMVEGVFSQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARGFQTVPNSTRPYLDLNLLET
 GVLVYNEKIDREQICKQSPSCVLHLEVFLENPLELFQVEIEVLDINDNPPSFPEPDLTVEISESATPGTR
 FPLESADFDPDVGNTSLRDYEITPNSYFSLDVQQTQGDGNRF AELVLEKPLDREQQAVHRYVLTAVDGGGGG
 GVGEAGGGGGGAGLPPQQQRTGTALLTIRVLDSNDNVP AFDQPVYTVSLEPENSPPGTLVIQLNATDPDEG
 QNGEVVYSFSSHISPRARELFGLSPRTGRLEVSVELDYEESPVYQVYVQAKDLGPNVAVPAHCKVLRVLD
 ANDNAPEISFSTVKEAVSEGAAPGTVVALF SVTDRDSEENGQVQCELLGDVPFRLKSSFKNYTIVTEAP
 LDREAGDSYTLTVVARDRGEALSTSKSIQVQVSDVNDNAPRFSQPVDVYVTENNVP GAYIYAVSATDR
 DEGANAQLAYSILECQIQGMSVFTYVSINSENGYLALRSFDYEQLKDFSFQVEARDAGSPQALAGNATV
 NILIVDQNDNAPAIVAPLPGRNGTPAREVLPRAEPGYLLTRVAVDADDGENARLTYSIVRGNEMNLF
 MDWRTGELRTARRVPAKRDPQRPYELVIEVRDHGQPPLSSTATLVVQLVDGAVEPQGGGSGGGSGGEHQ
 RPSRSGGGGETSLDLTLILIIALGSVSFIFLLAMIVLAVRCQKEKLNIIYCLASDCLCCCGGGGGSTC
 CGRQARARKKKLSKSDIMLVQSSNVPSNPAQVP IEEGGFGSHHHNQNYCYQVCLTPESAKTDLMLFKPC
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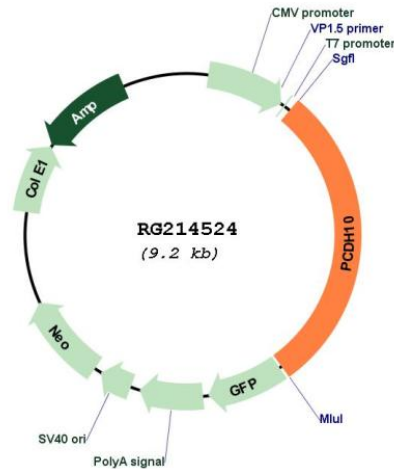
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020815

ORF Size: 2688 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_020815.3](#)

RefSeq Size: 3935 bp

RefSeq ORF: 2691 bp

Locus ID: 57575

UniProt ID: [Q9P2E7](#)

Cytogenetics: 4q28.3

Domains: CA

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. This family member contains 6 extracellular cadherin domains, a transmembrane domain and a cytoplasmic tail differing from those of the classical cadherins. The encoded protein is a cadherin-related neuronal receptor thought to function in the establishment of specific cell-cell connections in the brain. This gene plays a role in inhibiting cancer cell motility and cell migration. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]