

Product datasheet for **RG210970**

R Cadherin (CDH4) (NM_001794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	R Cadherin (CDH4) (NM_001794) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	R Cadherin
Synonyms:	CAD4; R-CAD; RCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210970 representing NM_001794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCGCGGGCCGGCGTCTCCTTCTGCTGCTCTCGTCTCCGGCGCGCTCCGGGCCATAATGAGG
 ATCTTACAAC TAGAGAGACCTGCAAGGCTGGTCTCTGAAGATGATTACACGGCATTAACTCCCAAAA
 TATTCTAGAAGGGGAAAAGCTACTTCAAGTCAAGTTCAGCAGCTGTGTGGGGACCAAGGGACACAATAT
 GAGACCAACAGCATGGACTTCAAAGTTGGGGCAGATGGGACAGTCTTCGCCACCCGGGAGCTGCAGGTCC
 CCTCCGAGCAGGTGGCGTTCACGGTACTGATGGGACAGCCAGACAGCAGAGAAATGGGACGCCGTGGT
 GCGGTTGCTGGTGGCCAGACCTCGTCCCGCACTCTGGACACAAGCCGAGAAAGGAAAGAGGTCTGT
 GCTCTGGACCCCTCTCCGCTCCGAAGGACACCCTGCTGCCGTGGCCCCAGCACCAGAACGCCAACGGGC
 TGAGGCGGCGCAAACGGGACTGGGTATCCCGCCATCAACGTGCCGAGAACTCGCGCGGGCCCTCCC
 GCAGCAGCTCGTGAAGATCCGGTCCGACAAAGACAATGACATCCCATCCGGTACAGCATCACGGGAGTG
 GCGCCGACACGCCCCATGGAGGTCTTCAAGTTCAGCATTGACTCCATGTCCGGCCGGATGTACGTACAAAGGC
 CCATGGACCGGGAGGAGCAGCCTCTTACCACCTCCGAGCCACGCTGTGGACATGAATGGCAACAGGT
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 GTCTACAACGGCTCCGTGGACGAGGGCTCCAAGCCAGGCACCTACGTGATGACCGTACAGGCCAACGATG
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 AAAGTTCAGCAGTACACAGTATCGTTCAGGCCACAGATATGGAAGGAAATCTCAACTATGGCCTCTCAA
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 TGCAGGGGAGGTCCCGAAAACCGCGTGGAGACCGTGGTCCGAAAACCTCACGGTATGGACCGAGATCAG
 CCCCACCTCTCAAACCTGGAATGCCGTTTACCGCATCATAGTGGGGATCCATCCGGGCACTTCAGCGTCC
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 TCCGCCTGGAGGAGGGCGTGCACCCCGCACCGTGTGACCACGTTTTTCAGCTGTGGACCTGACCGGTT
 CATGCAGCAGGCTGTGAGATACTCAAAGCTGTGAGACCCAGCGAGCTGGTGCACATCAATGCCACCAAC
 GGCAGATCACACGGCGCAGTGTGGACCGTGTGAGTCCCTCTACACAAAACAACGTCTACGAGGCCA
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 TCGCGTGGATGAGCGGCCGTGGCGCTGAGCCCCAGTACCCGATCAGGCCCATGGTGGCGACCCAGGC
 GACATCGGTGACTTATCAATGAGGGACTCCGCGCTGCTGACAACGACCCACGGCACCCCCCTATGACT
 CCCTGCTGGTCTTCGACTACGAGGGGAGCGGCTCCACCGCAGGCTCCGTGAGTCCCTGAATCATCCAG
 TTCCGGGACCAAGACTACGATTACCTCAACGACTGGGGGCCAGATTCAAGAAGCTGGCGGACATGTAT
 GGAGGTGGTGAAGAGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210970 representing NM_001794
 Red=Cloning site Green=Tags(s)

MTAGAGVLLLLLSL SGALRAHNEDLTTRETCKAGFSEDDYTALISQNI LEGEKLLQVKFSSCVGTKGTQY
 ETNSMDFKVGADGTVFATRELQVPSEQVAFVTAWDSQTAEKWDVAVRLLVAQTSPPHSGHKPKGKKVV
 ALDPSPPPKDTLLPWPQHQNANGLRRRKRDRWVIPPINVPENSRGPFPPQLVRIKSDKNDIPIRYSITGV
 GADQPPMEVFSIDSMSGRMYVTRPMDREEHASYLRAHAVDMNGNKVENPIDLYIYVIDMNDNRPEFINQ
 VYNGSVDEGSKPGTYVMTVANDADDSTTANGMVRYRIVTQTPQSPSQNMFTINSETGDI VTVAAAGLDRE
 KVQYQYTVIVQATDMEGNLNYGLSNTATAITVTDVNDNPPEFTASTFAGEVPENRVETVVANLTVMDRDQ
 PHSPNWNNAVYRIISGDPSGHFSVRTDPVTNEGMVTVVKAVDYELNRAFMLTVMVSNQAPLASGIQMSFQS
 TAGVTISIMDINEAPYFPSNHKLIRLEEGVPPGTVL TTFSAVDPDRFMQQAVRYSKLSDPASWLHINATN
 GQITTAAVLDRESLYTKNNVYEATFLAADNGIPPASGTGLQIYLIDINDAPELLPKEAQICEKPNLNA
 INITAADADVDPNIGPYV FELPFVPAAVRKNWTITRLNGDYAQLSLRILYLEAGMYDVPIIVTDSGNPPL
 SNTSIIKVKVPCDDNGDCTTIGAVAAAAGLGTGAIVAILICILILLTMVLLFVMW MKRREKERHTKQLLI
 DPEDDVRDNILKYDEEGGGEEDQDYDLSQLQQPEAMGHVPSKAPG VRRVDERPVGAE PQYIRPMVPHPG
 DIGDFINEGLRAADNDPTAPPYD SLLVFDYEGSGSTAGSVSSLNSSSSGDQDYDYLNDWGPRFKKLADMY
 GGGEED

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

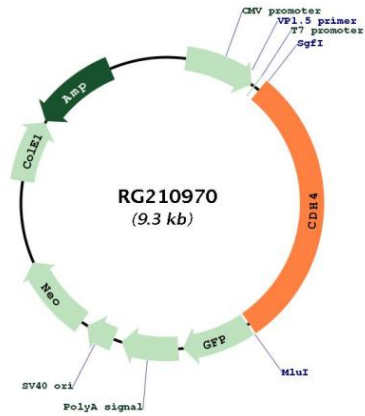
Cloning Scheme:



ACCN: NM_001794

ORF Size:	2748 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:	<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_001794.2 , NP_001785.2
RefSeq Size:	3063 bp
RefSeq ORF:	2751 bp
Locus ID:	1002
UniProt ID:	P55283
Cytogenetics:	20q13.33
Domains:	Cadherin_C_term, CA
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG210970