

## Product datasheet for **RG217249**

### Cadherin 8 (CDH8) (NM\_001796) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 8 (CDH8) (NM_001796) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cadherin 8
Synonyms:	Nbla04261
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG217249 representing NM\_001796  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCAGAACGGCTACGGAAATGCTCTTGGATCTCTGGACTCCATTAATATATTATGGATTACTCTTC  
CCCCTTGCAATTTACATGGCTCCGATGAATCAGTCTCAAGTTTTAATGAGTGGATCCCCTTTGGAACATAA  
CAGTCTGGGTGAAGAACAGCAATTTTGAACCGCTCCAAAAGAGGCTGGGTTTGAATCAATGTTTGTC  
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AAAAATCAAGTATATCCTATCAGGTGATGGAGCTGGGACCATATTTCAAATAAATGATGTAACCTGGAGA  
TATCCATGCTATAAAAAGACTTGACCGGGAGGAAAAGGCTGAGTATACCCTAACAGCTCAAGCAGTGGAC  
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CACCAGAGTTTCTAATGGACCCTATCATGCTACTGTGCCAGAAATGTCCATTTTGGGTACATCTGTCC  
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GAGAAGCCAAGGAGGAGTACCTGGTTGTTATCCAAGCCAAGATATGGGTGGACACTCTGGTGGCCTGTC  
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TTCTGATGCCAGGCCAGGATGGCATTATAAGGCTAAGAAAACCTCTGGACTTTGAGACCAAAAAATCC  
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ACACGGCAGACGTCAAAATCGTGGTTGAAGATGCTGATGAGCCTCCGGTCTTCTTCCACCGACTACCT  
ACTTGAAGTTCATGAAAATGCTGCTCTAAACTCCGTGATTGGGCAAGTACTGCTCGTGACCTGATATC  
ACTTCCAGTCTATAAGTTTTTCCATCGACCGGCACACTGACCTGGAGAGGCAGTTCAACATTAATGCAG  
ACGATGGGAAGATAACGCTGGCAACACCACTTGACAGAGAATTAAGTGTATGGCACAACATAACAATCAT  
TGCTACTGAAATTAGGAACCACAGTCAGATATCAGAGTACCTGTTGCTATTAAAGTGTGGATGTCAAT  
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TTATAAATGTAAGGCTGCATGAGGCAGATAATGATCCCACGGCCCGCCATATGACTCCATTGAGATATA  
TGGCTATGAAGGCCGAGGGTCAGTGGCTGGCTCCCTCAGCTCCTTGGAGTCCACCACATCAGACTCAGAC  
CAGAATTTTACTACCTCAGTACTGGGTCCCGCTTTAAGAGACTGGGCGAACTCTACTCTGTTGGTG  
AAAGTGACAAAGAACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG217249 representing NM\_001796  
 Red=Cloning site Green=Tags(s)

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MPERLAEMLLDLWTPLIILWITLPPCIYMAPMNQSQVLMMSGSPLELNSLGEEQRILNRSKRGVWVWNQMFV
LEEFSGPEPILVGR LH TDLDPGSKKIKYILSGDGAGTIFQINDVTGDIHAIKRLDREEKAEYTLTAQAVD
WETSKPLEPPSEFIIKVQDINDNAPEFLNGPYHATVPMSILGTSVTNVTATDADDPVYGN SAKLVYSIL
EGQPYFSIEPETAIIKTALPNMDREAKEEYL VVIQAKDMGGHSGGLSGTTTLTVTLTDVNDNPPKFAQSL
YHFSVPEDVVLGTAIGRVKANDQDIGENAQSSYDIIDGGDTALFEITSDAQAQDGIIRLRKPLDFETKKS
YTLKVEAANVHIDPRFSGRGPFKDTATVKIVVEDAEPVVFSSPTYLLEVHENAALNSVIGQVTARDPDI
TSSPIRFSIDRHTDLERQFNINADDGKITLATPLDRELSVWHNITIIATEIRNHSQISRPVVAIKVLDVN
DNAPEFASEYEAF LCENKPGQVIQTVSAMDKDDPKNGHYFLYSLLPEMVNPNFTIKKNEDNSLSILAK
HNGFN RQKQEVYLLPIIISDSGNPPLSSTSTLTIRVCGCSNDGVVQSCNVEAYVLP IGLSMGALIAILAC
IILLLVIVVLFVTLRRHKNEPLIIKDEDEVRENIIRYDDEGGGEEDTEAFDIATLQNP DGINGFLPRKDI
KPD LQFM PRQGLAPV P NGVDVDEF INVRLHEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESTTSDSD
QNFDYLSDWGPRFKRLGELYSVGESDKET
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

Cloning Scheme:



ACCN: NM\_001796

ORF Size: 2397 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\\_001796.5](#)

**RefSeq Size:** 2929 bp

**RefSeq ORF:** 2400 bp

**Locus ID:** 1006

**UniProt ID:** [P55286](#)

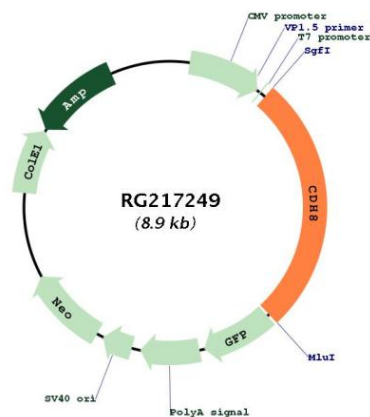
**Cytogenetics:** 16q21

**Domains:** Cadherin\_C\_term, CA

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is expressed in brain and is putatively involved in synaptic adhesion, axon outgrowth and guidance. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG217249

