

Product datasheet for **RG217113**

Cadherin 7 (CDH7) (NM_033646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 7 (CDH7) (NM_033646) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDH7
Synonyms:	CDH7L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG217113 representing NM_033646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTTGGCCAAAGTGGAGTTCTGCCATTTTCTGCAGCTAATAGCTCTTTTCTGTGTTTTCTGGGA
 TGAGTCAAGCAGAACTCTCAAGGTCAGATCAAAGCCCTATTTCCAATCAGGGAGGTCCCGACCAAGCG
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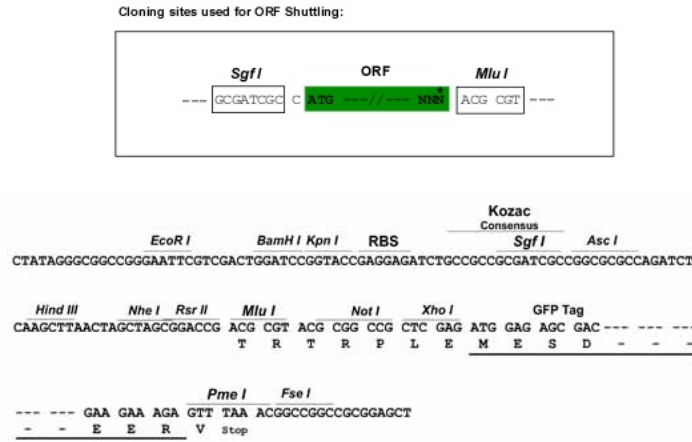
Protein Sequence: >RG217113 representing NM_033646
 Red=Cloning site Green=Tags(s)

MKLGKVEFCHFLQLIALFLCFSGMSQAELSRSRKPYFQSGRSRTKRSWVWNQFFVLEEYMGSDPLYVVGK
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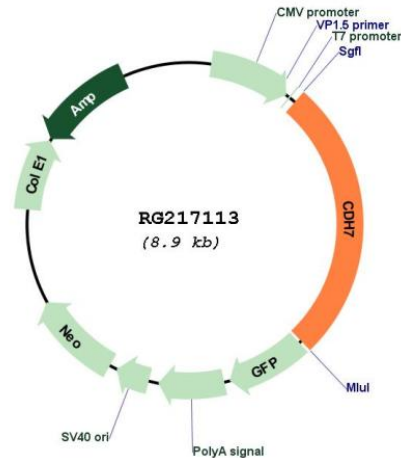
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_033646

ORF Size: 2355 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_033646.3](#)

RefSeq Size: 2728 bp

RefSeq ORF: 2358 bp

Locus ID: 1005

UniProt ID: [Q9ULB5](#)

Cytogenetics: 18q22.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a type II classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Type II (atypical) cadherins are defined based on their lack of a histidine-alanine-valine (HAV) cell adhesion recognition sequence specific to type I cadherins. Cadherins mediate cell-cell binding in a homophilic manner, contributing to the sorting of heterogeneous cell types. Mutations in this gene may be associated with bipolar disease in human patients. This gene is present in a gene cluster on chromosome 18.
[provided by RefSeq, May 2016]