

Product datasheet for **RG217116**

Cadherin 7 (CDH7) (NM_004361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 7 (CDH7) (NM_004361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cadherin 7
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:**

>RG217116 representing NM_004361
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTTGGCAAAGTGGAGTTCTGCCATTTTCTGCAGCTAATAGCTCTTTCTGTGTTTTCTGGGA
 TGAGTCAAGCAGAACTCTCAAGGTCCAGATCAAAGCCCTATTTCCAATCAGGGAGGTCCCGACCAAGCG
 CAGCTGGGTGTGAATCAGTTCTTTGTGCTGGAGGAATACATGGGTTCCAGACCCCTCTATGTAGAAAG
 CTTCACTCTGATGTTGATAAAGGAGATGGTCCATCAAATACATCTTGTGAGGCGAAGGGCAAGTTCCA
 TTTTCATTATTGATGAGAACTGGGGATTCATGCCACCAAGAGACTGGATCGTGAGGAGCAGGCCTA
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 TTAGATTCCATCAGCTCAAACCTCTGATCAGAACTATGACTACCTAAGTACTGGGGACCTCGCTTTAA
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

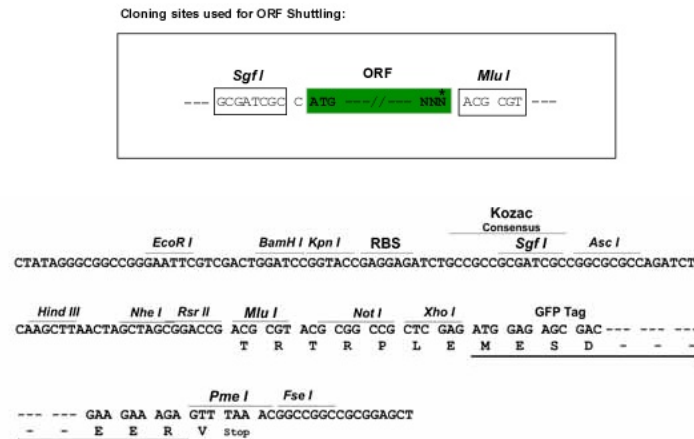
Protein Sequence: >RG217116 representing NM_004361
 Red=Cloning site Green=Tags(s)

MKLGKVEFCHFLQLIALFLCFSGMSQAELSRSRKPYFQSGRSRTKRSWVWNQFFVLEEYMGSDPLYVVGK
 LHSDVDKGDGSIKYLSEGEASSIFIIDENTGDIHATKRLDREEQAYYTLRAQALDRLTNKPVEPESEFV
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 RFLSLGPFSDTTTKIIVEDVDEPPVFSSPLYPMEVSEATQVGNIIIGTVAHDPDSSNSPVYSIDRNTD
 LERYFNIDANSVITTAKSLDRETNAIHNITVLAMESQNPQVGRGYVAITILDINDNAPEFAMDYETTV
 CENAQPGQVIQKISAVDKDEPSNGHQFYFSLTTDATNNHNSLKDNKDNNTASILTRNGFRREQSVYYL
 PIFIVDSGSPSLSSTSTLTIRVCDADGVAQTCNAEAYVLPAGLSTGALIAILACVLTLLVLILLIVTM
 RRRKKEPLIFDEERDIRENIVRYDDEGGGEEDTEAFDMAALRNLVIRDTKTRRDVTPEIQFLSRPAFKS
 IPDNVIFREFIWERLKEADVDPGAPPYDSLQTYAFEGNGSVAESLSSLDSSNSDQNYDYLSDWGPRFK
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TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004361

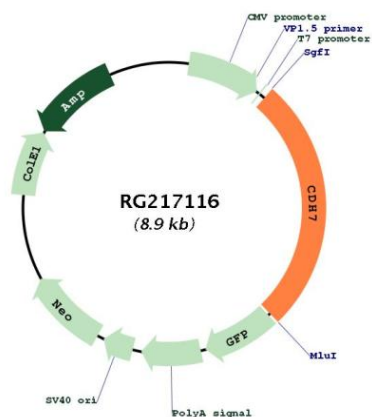
ORF Size: 2355 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_004361.2</u> , <u>NP_004352.2</u>
RefSeq Size:	2828 bp
RefSeq ORF:	2358 bp
Locus ID:	1005
UniProt ID:	<u>Q9ULB5</u>
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]

Product images:



Circular map for RG217116