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Product datasheet for RC217116

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:	Myc-DDK
Symbol:	Cadherin 7
Synonyms:	CDH7L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC217116 representing NM_004361
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTTGGGCAAAGTGGAGTTCTGCCATTTTCTGCAGCTAATAGCTCTTTTCCTGTGTTTTTCTGGGA
TGAGTCAAGCAGAACTCTCAAGGTCCAGATCAAAGCCCTATTTCCAATCAGGGAGGTCCCGGACCAAGCG
CAGCTGGGTGTGGAATCAGTTCTTTGTGCTGGAGGAATACATGGGTTCAGACCCCCTCTATGTAGGAAAG
CTTCACTCTGATGTTGATAAAGGAGATGGTTCCATCAAATACATCTTGTCAGGCGAAGGGGCAAGTTCCA
TTTTCATTATTGATGAGAACACTGGGGATATTCATGCCACCAAGAGACTGGATCGTGAGGAGCAGGCCTA
CTACACGCTCCGAGCTCAAGCGCTGGATAGGCTCACCAACAAACCCGTGGAGCCCGAGTCGGAGTTTGTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217116 representing NM_004361
Red=Cloning site Green=Tags(s)

MKLGKVEFCHFLQLIALFLCFSGMSQAELSRSRSKPYFQSGRSRTKRSWVWNQFFVLEEYMGSDPLYVGK
LHSDVDKGDGSIKYILSGEGASSIFIIDENTGDIHATKRLDREEQAYYTLRAQALDRLTNKPVEPESEFV
IKIQDINDNEPKFLDGPYTAGVPEMSPVGTSVVQVTATDADDPTYGNSARVVYSILQGQPYFSVEPKTGV
IKTALPNMDREAKDQYLLVIQAKDMVGQNGGLSGTTSVTVTLTDVNDNPPRFPRRSYQYNVPESLPVASV
VARIKAADADIGANAEMEYKIVDGDGLGIFKISVDKETQEGIITIQKELDFEAKTSYTLRIEAANKDADP
RFLSLGPFSDTTTVKIIVEDVDEPPVFSSPLYPMEVSEATQVGNIIGTVAAHDPDSSNSPVRYSIDRNTD
LERYFNIDANSGVITTAKSLDRETNAIHNITVLAMESQNPSQVGRGYVAITILDINDNAPEFAMDYETTV
CENAQPGQVIQKISAVDKDEPSNGHQFYFSLTTDATNNHNFSLKDNKDNTASILTRRNGFRRQEQSVYYL
PIFIVDSGSPSLSSTSTLTIRVCDCDADGVAQTCNAEAYVLPAGLSTGALIAILACVLTLLVLILLIVTM
RRRKKEPLIFDEERDIRENIVRYDDEGGGEEDTEAFDMAALRNLNVIRDTKTRRDVTPEIQFLSRPAFKS
IPDNVIFREFIWERLKEADVDPGAPPYDSLQTYAFEGNGSVAESLSSLDSISSNSDQNYDYLSDWGPRFK
RLADMYGTGQESLYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6163_b03.zip

Restriction Sites: SgfI-MluI

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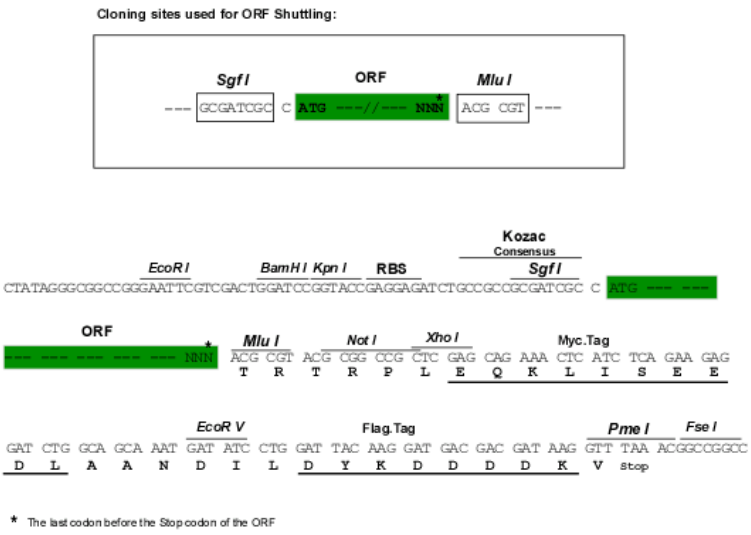
Cloning Scheme:



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).

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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_004361.5
RefSeq Size:	2828 bp
RefSeq ORF:	2358 bp
Locus ID:	1005
UniProt ID:	Q9ULB5
Cytogenetics:	18q22.1
Protein Families:	Transmembrane
MW:	87.06 kDa
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]

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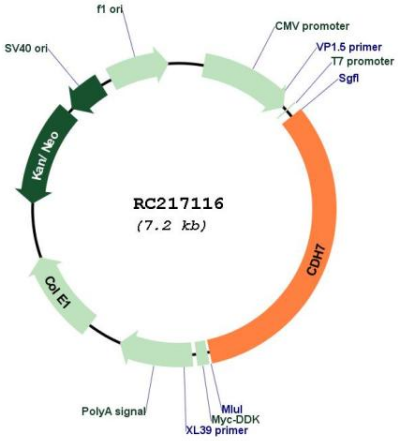
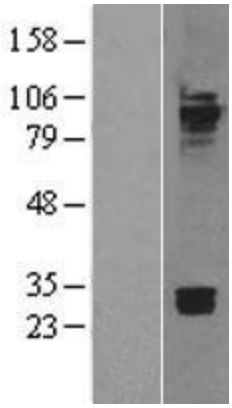
Product images:



Circular map for RC217116



Western blot validation of overexpression lysate (Cat# [LY401390]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217116 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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