OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR218916

Cdh8 (NM_007667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh8 (NM_007667) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh8
Synonyms:	AI851472; cad; cad8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR218916 representing NM_007667
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGAAAGGCTAGCTGAGACGCTCATGGACCTCTGGACTCCATTAATAATATTATGGATTACCCTCC
CTTCTTGTGTATACACGGCTCCGATGAATCAGGCTCACGTTTTAACTACTGGATCCCCTTTGGAACTAAG
CAGGCAGAGTGAAGACATGCGGATTTTGAGCCGCTCCAAAAGAGGCTGGGTTTGGAATCAAATGTTTGTC
CTGGAAGAATTTTCTGGACCTGAACCGATTCTCGTTGGCCGGTTACACACAGATCTGGATCCTGGAAGCA
AAAAAATCAAGTATATCCTATCGGGTGATGGAGCTGGCACAATCTTTCAAATAAATGATATAACTGGAGA
TATCCATGCTATCAAAAGACTTGACCGAGAGGAAAAGGCTGAATATACGTTAACGGCTCAGGCAGTGGAC
TTTGAGACAAACAAGCCCCTTGAGCCTCCTTCTGAATTTATTATTAAGGTTCAAGATATCAACGACAATG
CACCTGAGTTCCTCAATGGACCTTATCATGCTACTGTTCCAGAGATGTCCATTTTGGGTACATCTGTCAC
TAATGTAACTGCCACTGATGCTGACGACCCAGTTTATGGAAACAGTGCAAAGTTGGTTTACAGTATCTTG
GAGGGACAGCCGTATTTTTCCATTGAGCCTGAAACAGCCATTATAAAAACTGCCCTTCCTAACATGGACA
GAGAAGCCAAGGAGGAATACCTGGTCGTAATACAAGCCAAAGATATGGGTGGACACTCTGGTGGTCTGTC
TGGAACCACAACACTCACAGTGACCCTGACTGATGTTAATGACAATCCTCCAAAATTTGCTCAGAGTTTG
TATCACTTCTCAGTACCAGAAGATGTGGTCCTTGGCACTGCGATAGGAAGGGTTAAGGCTAATGATCAGG
ATATTGGTGAAAATGCACAATCATCCTATGACATCATTGATGGAGATGGGACAGCACTATTCGAAATCAC
TTCTGATGCCCAGGCCCAGGATGGTGTTATAAGACTGAGAAAGCCTCTGGACTTTGAGACCAAAAAATCC
TATACTCTGAAGGTGGAAGCAGCCAATATCCACATCGACCCACGTTTCAGTAGCAGGGGACCCTTTAAGG
ATACAGCAACAGTCAAAATTGTCGTAGAGGATGCTGATGAGCCTCCGGTCTTCTCTTCACCAACTTACCT
CCTTGAAGTTCATGAAAATGCTGCTTTGAACTCTGTGATTGGCCAAGTGACAGCTCGTGACCCTGATATC
ACTTCCAGTCCAATAAGGTTTTCCATTGACCGCCACACTGACCTGGAAAGACAGTTCAACATCAATGCAG
ATGATGGGAAGATAACACTGGCAACTCCACTGGACAGAGAACTAAGTGTTTGGCACAACATCACCATCAT
TGCTACTGAGATCAGGAACCACAGTCAGATATCTCGAGTGCCTGTTGCTATTAAAGTGCTGGATGTCAAT
GACAACGCCCCTGAATTCGCATCCGAATATGAGGCATTTTTATGTGAAAATGGAAAACCCGGCCAAGTCA
TTCAAACAGTAAGTGCCATGGACAAAGACGATCCCAAAAACGGACATTTTTTCTTGTACAGTCTTCTTCC
AGAAATGGTCAACAACCCAAATTTCACCATCAAGAAAAATGAAGATAATTCCCTGAGCATTCTGGCAAAA
CATAATGGATTCAACCGCCAGAAGCAAGAAGTCTACCTTCTGCCTATAGTGATCAGTGACAGTGGAAACC
CCCCTCTGAGTAGCACCAGTACGTTGACCATCCGAGTCTGTGGCTGTAGCAATGATGGCGTGGTCCAGTC
GTGCAATGTTGAAGCTTATGTCCTTCCTATTGGACTCAGTATGGGCGCCTTAATTGCTATATTAGCATGC
ATCATTTTGCTGCTCGTCATTGTGGTTCTGTTTGTTACCCTGAGGAGGCACAAAAATGAACCACTTATTA
TCAAAGATGACGAAGACGTTCGAGAAAACATCATTCGCTACGACGACGAAGGAGGAGGGGAGGAGGACAC
AGAGGCTTTTGACATTGCAACTTTGCAAAACCCAGATGGAATTAATGGATTTTTACCCCGTAAGGATATT
AAACCAGATTTGCAGTTTATGCCAAGGCAAGGGCTTGCTCCAGTTCCAAATGGTGTTGATGTCGATGAAT
TTATAAATGTAAGGCTGCATGAGGCAGATAATGACCCCACGGCCCCACCATATGACTCCATACAGATTTA
TGGCTATGAAGGCCGAGGGTCTGTGGCTGGCTCCCTCAGCTCCTTGGAGTCCACCACATCAGACTCAGAC
CAGAATTTTGACTACCTCAGTGACTGGGGTCCCCGCTTTAAGAGACTGGGCGAACTCTACTCTGTTGGTG
AAAGTGACAAAGAAACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218916 representing NM_007667
Red=Cloning site Green=Tags(s)

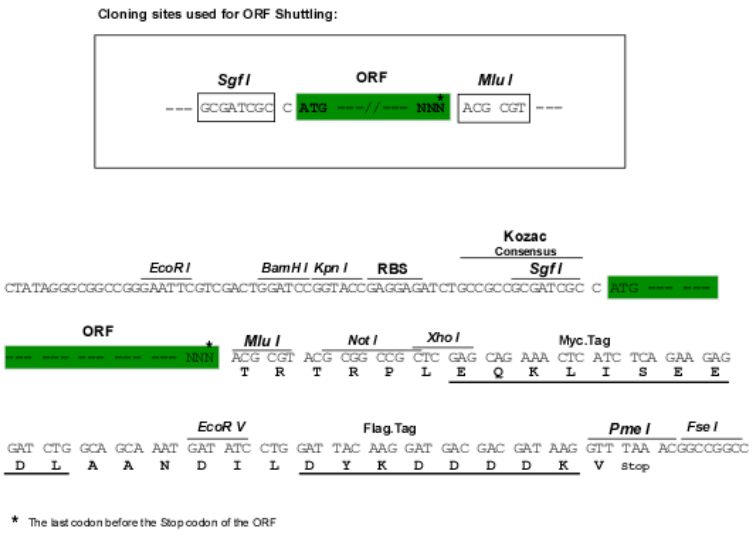
MPERLAETLMDLWTPLIILWITLPSCVYTAPMNQAHVLTTGSPLELSRQSEDMRILSRSKRGWVWNQMFV
LEEFSGPEPILVGRLHTDLDPGSKKIKYILSGDGAGTIFQINDITGDIHAIKRLDREEKAEYTLTAQAVD
FETNKPLEPPSEFIIKVQDINDNAPEFLNGPYHATVPEMSILGTSVTNVTATDADDPVYGNSAKLVYSIL
EGQPYFSIEPETAIIKTALPNMDREAKEEYLVVIQAKDMGGHSGGLSGTTTLTVTLTDVNDNPPKFAQSL
YHFSVPEDVVLGTAIGRVKANDQDIGENAQSSYDIIDGDGTALFEITSDAQAQDGVIRLRKPLDFETKKS
YTLKVEAANIHIDPRFSSRGPFKDTATVKIVVEDADEPPVFSSPTYLLEVHENAALNSVIGQVTARDPDI
TSSPIRFSIDRHTDLERQFNINADDGKITLATPLDRELSVWHNITIIATEIRNHSQISRVPVAIKVLDVN
DNAPEFASEYEAFLCENGKPGQVIQTVSAMDKDDPKNGHFFLYSLLPEMVNNPNFTIKKNEDNSLSILAK
HNGFNRQKQEVYLLPIVISDSGNPPLSSTSTLTIRVCGCSNDGVVQSCNVEAYVLPIGLSMGALIAILAC
IILLLVIVVLFVTLRRHKNEPLIIKDDEDVRENIIRYDDEGGGEEDTEAFDIATLQNPDGINGFLPRKDI
KPDLQFMPRQGLAPVPNGVDVDEFINVRLHEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESTTSDSD
QNFDYLSDWGPRFKRLGELYSVGESDKET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_007667
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_007667.3, NP_031693.2

RefSeq Size: 3158 bp

RefSeq ORF: 2400 bp

Locus ID: 12564

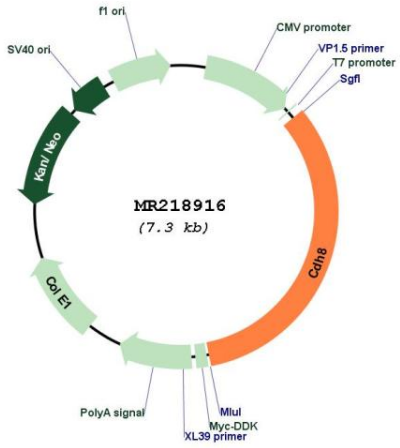
UniProt ID: P97291

Cytogenetics: 8 49.4 cM

MW: 88.7 kDa

Gene Summary: This gene encodes a member of the cadherin family of calcium-dependent glycoproteins that mediate cell adhesion and regulate many morphogenetic events during development. The encoded preproprotein is further processed to generate a mature protein. Mice lacking the encoded protein exhibit reduced behavioral responses to cold, but not thermal stimuli. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. Multiple distinct genes of the cadherin family, including this gene, are found on chromosome 8. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR218916