

Product datasheet for **MC221686**

Cdh8 (NM_007667) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Cdh8
Synonyms:	AI851472; cad; cad8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>MC221686 representing NM_007667
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGCGGCCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGAAAGGCTAGCTGAGACGCTCATGGACCTCTGGACTCCATTAATAATATTATGGATTACCCCTCC
CTTCTTGTGTATACACGGCTCCGATGAATCAGGCTCACGTTTTAACTACTGGATCCCCCTTTGGAACATAAG
CAGGCAGAGTGAAGACATGCGGATTTTGTAGCCGCTCCAAAAGAGGCTGGGTTTGAATCAAAATGTTTGTC
CTGGAAGAATTTCTGGACCTGAACCGATTCTCGTTGGCCGGTTACACACAGATCTGGATCCTGGAAGCA
AAAAATCAAGTATATCCTATCGGGTGATGGAGCTGGCACAATCTTCAATAAATGATATAACTGGAGA
TATCCATGCTATCAAAAAGACTTGACCGAGAGGAAAAGGCTGAATATACGTTAACGGCTCAGGCAGTGGAC
TTTGAGACAAAACAGCCCTTGAGCCTCCTTCTGAATTTATTATTAAGGTTCAAGATATCAACGACAATG
CACCTGAGTTCCTCAATGGACCTTATCATGCTACTGTTCCAGAGATGTCCATTTTGGGTACATCTGTAC
TAATGTAAGTGGCACTGATGCTGACGACCCAGTTTATGAAACAGTGCAAAGTTGGTTTACAGTATCTTG
GAGGGACAGCCGATTTTTCCATTGAGCCTGAAACAGCCATTATAAAAACTGCCCTTCTAACATGGACA
GAGAAGCCAAGGAGGAATACCTGGTCGTAATACAAGCCAAAGATATGGGTGGACACTCTGGTGGTCTGTC
TGGAACCACAACACTCACAGTGACCTGACTGATGTTAATGACAATCTCCAAAATTTGCTCAGAGTTTG
TATCACTTCTCAGTACCAGAAGATGGTCTTGGCACTGCGATAGGAAGGGTTAAGGCTAATGATCAGG
ATATTGGTGAAAATGCACAATCATCCTATGACATCATTGATGGAGATGGGACAGCACTATTGAAAATCAC
TTCTGATGCCAGGCCAGGATGGTGTATAAGACTGAGAAAGCCTCTGGACTTTGAGACAAAAAATCC
TATACTCTGAAGGTGGAAGCAGCCAATATCCACATCGACCCACGTTTCACTAGCAGGGGACCCCTTAAGG
ATACAGCAACAGTCAAAATTTGCTAGAGGATGCTGATGAGCCTCCGGTCTTCTCTTACCAACTTACCT
CCTTGAAAGTTCATGAAAATGCTGCTTTGAACTCTGTGATTGGCCAAAGTGACAGCTCGTGACCTGATATC
ACTTCCAGTCCAATAAGGTTTTCCATTGACCGCCACACTGACCTGGAAAGACAGTTCACATCAATGCAG
ATGATGGGAAGATAACACTGGCAACTCCACTGGACAGAGAATAAGTGTGGCACAACATCACCATCAT
TGCTACTGAGATCAGGAACACAGTACAGATATCTGAGTGCCTGTTGCTATTAAGTGTGGATGTCAAT
GACAACGCCCTGAATTCGCATCCGAATATGAGGCATTTTTATGTGAAAATGGAAAACCCGGCCAAGTCA
TTCAAACAGTAAGTGCCATGGACAAAAGACGATCCAAAAACGGACATTTTTCTTGACAGTCTTCTTCC
AGAAATGGTCAACAACCCAAATTTACCATCAAGAAAATGAAGATAATTCCCTGAGCATTCTGGCAAAA
CATAATGGATTCAACCGCCAGAGCAAGAAGTCTACCTTCTGCCTATAGTGATCAGTGACAGTGGAAACC
CCCCTCTGAGTAGCACCAGTACGTTGACCATCCGAGTCTGTGGCTGTAGCAATGATGGCGTGGTCCAGTC
GTGCAATGTTGAAGCTTATGTCCTTCTATTGGACTCAGTATGGGCGCCTTAATTGCTATATTAGCATGC
ATCATTTTGTCTGCTCGTCATTGTGTTTCTGTTTACCCTGAGGAGGCACAAAAATGAACCACTTATTA
TCAAAGATGACGAAGACGTTTCGAGAAAACATCATTGCTACGACGACGAAGGAGGAGGGAGGAGGACAC
AGAGGCTTTTGACATTGCAACTTTGCAAAACCCAGATGGAATTAATGGATTTTACCCCGTAAGGATATT
AAACCAGATTTGCAAGTTATGCAAGGCAAGGCTTGTCTCAGTTCCAAATGGTGTGATGTCGATGAAT
TTATAAATGTAAGGCTGCATGAGGCAGATAATGACCCACGCCCCACCATATGACTCCATACAGATTTA
TGGCTATGAAGGCCGAGGCTGTGGCTGGCTCCCTCAGCTCCTTGGAGTCCACCACATCAGACTCAGAC
CAGAATTTTACTACCTCAGTACTGGGTCCCGCTTTAAGAGACTGGGCGAACTCTACTCTGTTGGTG
AAAGTGACAAAGAACTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_007667

Insert Size:

2400 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_007667.3</u> , <u>NP_031693.2</u>
RefSeq Size:	4786 bp
RefSeq ORF:	2400 bp
Locus ID:	12564
UniProt ID:	<u>P97291</u>
Cytogenetics:	8 49.4 cM
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] Transcript Variant: This variant (2) represents the longest transcript and encodes the longest protein (isoform 2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.