

Product datasheet for **MC228741**

Cdh8 (NM_001285914) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh8 (NM_001285914) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdh8
Synonyms:	AI851472; cad; cad8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228741 representing NM_001285914
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGAAAGGCTAGCTGAGACGCTCATGGACCTCTGGACTCCATTAATAATATTATGGATTACCCTCC
 CTCTTGTGTATACACGGCTCCGATGAATCAGGCTCACGTTTTAACTACTGGATCCCCTTTGGAAC TAAG
 CAGGCAGAGTGAAGACATGCGGATTTTGTAGCCGCTCCAAAAGAGGCTGGGTTTGAATCAAATGTTTGT
 CTGGAAGAATTTCTGGACCTGAACCGATTCTCGTTGGCCGTTACACACAGATCTGGATCCTGGAAGCA
 AAAAAATCAAGTATATCCTATCGGGTATGGAGCTGGCACAATCTTTCAAATAAATGATATAACTGGAGA
 TATCCATGCTATCAAAGACTTGACCGAGAGGAAAAGGCTGAATATACGTTAACGGCTCAGGCAGTGGAC
 TTTGAGACAAACAAGCCCTTGAGCCTCCTTCTGAATTTATTATTAAGGTTCAAGATATCAACGACAATG
 CACCTGAGTTCCTCAATGGACCTTATCATGCTACTGTTCCAGAGATGTCCATTTTGGGTACATCTGTAC
 TAATGTAAGTCCACTGATGCTGACGACCCAGTTTATGAAAACAGTGCAAAGTTGGTTTACAGTATCTTG
 GAGGGACAGCCGATTTTTCCATTGAGCCTGAAACAGCCATTATAAAAACTGCCCTTCTAACATGGACA
 GAGAAGCCAAGGAGGAATACCTGGTCGTAATACAAGCCAAGATATGGGTGGACACTCTGGTGGTCTGTC
 TGGAAACCAACACTCACAGTGACCCTGACTGATGTTAATGACAACTCTCCAAAATTTGCTCAGAGTTTG
 TATCACTTCTCAGTACCAAGATGTGGTCTTGGCACTGCGATAGGAAGGGTTAAGGCTAATGATCAGG
 ATATTGGTGAATAACCAATCATCCTATGACATCATTGATGGAGATGGGACAGCACTATTCGAAATCAC
 TTCTGATGCCAGGCCAGGATGGTGTATAAGACTGAGAAAGCCTCTGGACTTTGAGACCAAAAAATCC
 TATACTCTGAAGTGAAGCAGCCAATATCCACATCGACCCAGTTTCAGTAGCAGGGGACCCCTTAAGG
 ATACAGCAACAGTCAAAAATGCTGTAGAGGATGCTGATGAGCCTCCGGTCTTCTTACCAACTTACCT
 CCTTGAAGTTCATGAAAATGCTGCTTGAAGTCTGTGATTGGCCAAGTGACAGCTCGTGACCCTGATATC
 ACTTCCAGTCCAATAAGTTTTCCATTGACCGCCACACTGACCTGGAAAGACAGTTCAACATCAATGCAG
 ATGATGGGAAGATAAACTGGCAACTCCACTGGACAGAGAATAAGTGTGGCACAACATCACCATCAT
 TGCTACTGAGATCAGGAACACAGTCAGATATCTCGAGTGCCTGTTGCTATTAAGTGTGGATGTCAAT
 GACAACGCCCTGAATTCGCATCCGAATATGAGGCATTTTTATGTGAAAATGGAAAACCCGGCCAAGTCA
 TTCAAACAGTAAGTGCCATGGACAAGACGATCCCAAAAACGGACATTTTTCTGTACAGTCTTCTTCC
 AGAAATGGTCAACAACCCAAATTTACCATCAAGAAAAATGAAGATAATCCCTGAGCATTCTGGCAAAA
 CATAATGGATTCAACCGCCAGAAGCAAGAAGTCTACCTTCTGCCTATAGTGATCAGTGACAGTGGAAACC
 CCCTCTGAGTAGCACCAGTACGTTGACCATCCGAGTCTGTGGCTGTAGCAATGATGGCGTGGTCCAGTC
 GTGCAATGTTGAAGCTTATGTCCTTCTATTGGACTCAGTATGGGCGCCTTAATTGCTATATTAGCATGC
 ATCATTTTGTGCTCGTCAATTGTGGTCTGTTTGTACCCTGAGGAGGCACAAAAATGAACCACTTATTA
 TCAAAGATGACGAAGACGTTTCGAGAAAACATCATTGCTACGACGACGAAGGAGGAGGGGAGGAGGACAC
 AGAGGCTTTTGACATTGCAACTTTGCAAAAACCCAGATGGAATTAATGGATTTTTACCCATTACCAAGA
 GGCTTCTAAGAGGAATACCAGAGAATGCTGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001285914
Insert Size: 2136 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001285914.1, NP_001272843.1</u>
RefSeq Size:	3166 bp
RefSeq ORF:	2136 bp
Locus ID:	12564
Cytogenetics:	8 49.4 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate splice site in the 3' coding region and includes an alternate 3' terminal exon compared to variant 2. The resulting protein (isoform 4) is shorter and has a distinct C-terminus compared to isoform 2. This isoform (4) may undergo proteolytic processing similar to isoform 2.</p>