

Product datasheet for **MC220976**

Cdh8 (NM_001039154) 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:

>MC220976 representing NM_001039154
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAGAAAGGCTAGCTGAGACGCTCATGGACCTCTGGACTCCATTAATAATATTATGGATTACCCCTCC
 CTTCTTGTGTATACACGGCTCCGATGAATCAGGCTCACGTTTTAACTACTGGATCCCCCTTTGGAACATAAG
 CAGGCAGAGTGAAGACATGCGGATTTTGTAGCCGCTCCAAAAGAGGCTGGGTTTGAATCAAAATGTTTGTCT
 CTGGAAGAATTTTCTGGACCTGAACCGATTCTCGTTGGCCGGTTACACACAGATCTGGATCCTGGAAGCA
 AAAAAATCAAGTATATCCTATCGGGTGATGGAGCTGGCACAATCTTTCAATAAATGATATAACTGGAGA
 TATCCATGCTATCAAAAGACTTGACCGAGAGGAAAAGGCTGAATATACGTTAACGGCTCAGGCAGTGGAC
 TTTGAGACAAAAGCCCTTGAGCCTCCTTCTGAATTTATTATTAAGGTTCAAGATATCAACGACAATG
 CACCTGAGTTCTCAATGGACCTTATCATGCTACTGTTCCAGAGATGTCCATTTTGGGTACATCTGTAC
 TAATGTAAGTGGCACTGATGCTGACGACCCAGTTTATGGAACAGTGCAAAGTTGGTTTACAGTATCTTG
 GAGGGACAGCCGATTTTTCCATTGAGCCTGAAACAGCCATTATAAAAACTGCCCTTCTAACATGGACA
 GAGAAGCCAAGGAGGAATACCTGGTCGTAATACAAGCCAAAGATATGGGTGGACACTCTGGTGGTCTGTC
 TGGAACCACAACACTCAGAGTACCCTGACTGATGTTAATGACAATCTCCAAAATTTGCTCAGAGTTTG
 TACTACTTCTCAGTACCAGAAGATGGTCTTGGCACTGCGATAGGAAGGGTTAAGGCTAATGATCAGG
 ATATTGGTGAAAATGCACAATCATCTATGACATCATTGATGGAGATGGGACAGCACTATTGAAAATCAC
 TTCTGATGCCAGGCCAGGATGGTGTATAAGACTGAGAAAGCCTCTGGACTTTGAGACCAAAAAATCC
 TATACTCTGAAGGTGGAAGCAGCCAATATCCACATCGACCCACGTTTCACTAGCAGGGGACCCCTTAAGG
 ATACAGCAACAGTCAAAATTTGCTAGAGGATGCTGATGAGCCTCCGCTCTTCTTCCCAACTTACCT
 CCTTGAAGTTCATGAAAATGCTGCTTTGAACTCTGTGATTGGCCAAGTGACAGCTCGTGACCTGATATC
 ACTTCCAGTCCAATAAGGTTTTCCATTGACCGCCACACTGACCTGGAAAGACAGTTCACATCAATGCAG
 ATGATGGGAAGATAAAGTGGCACTCCACTGGACAGAGAAGTAAAGTGGTGGCACAACATCACCATCAT
 TGCTACTGAGATCAGGAACACAGTCAAGATATCTCGAGTGCCTGTTGCTATTAAGTGGTGGATGTAAT
 GACAACGCCCTGAATTCGCATCCGAATATGAGGCATTTTTATGTGAAAATGGAAAACCCGGCCAAGTCA
 TTCAAACAGTAAGTGCCATGGACAAAGACGATCCAAAAACGGACATTTTTTCTGTACAGTCTTCTTCC
 AGAAATGGTCAACAACCCAAATTTCAACATCAAGAAAAATGAAGATAATTCCCTGAGCATTCTGGCAAAA
 CATAATGGATTCAACCGCCAGAAGCAAGAAGTCTACCTTCTGCCTATAGTGATCAGTGACAGTGGAAACC
 CCCCTCTGAGTAGCACCAGTACGTTGACCATCCGAGTCTGTGGCTGTAGCAATGATGGCGTGGTCCAGTC
 GTGCAATGTTGAAGCTTATGTCCTTCTATTGGACTCAGTATGGGCGCCTTAATTGCTATATTAGCATGC
 ATCATTTTGTCTGCTCGTCATTGTGTTCTGTTGTACCCTGAGGAGGCACAAAAATGAACCACTTATTA
 TCAAAGATGACGAAGACGTTTCGAGAAAACATCATTGCTACGACGACGAAGGAGGAGGGAGGAGGACAC
 AGAGGCTTTTGACATTGCAACTTTGCAAAACCCAGATGGAATTAATGGATTTTACCCTGGTGGGATTG
 CCAACTCAAAGGTGGGAGGAGAGAAATGCCATTCAAACAGGCTGTGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001039154

Insert Size:

2151 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_001039154.2, NP_001034243.1</u>
RefSeq Size:	3822 bp
RefSeq ORF:	2151 bp
Locus ID:	12564
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 (1) uses an alternate splice site in the 3' coding region that leads to a frameshift compared to variant 2. The resulting protein (isoform 1) is shorter and has a distinct C-terminus compared to isoform 2. This isoform (1) may undergo proteolytic processing similar to isoform 2.