

Product datasheet for **MR227442**

Cdh2 (NM_007664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh2 (NM_007664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh2
Synonyms:	CDHN; N-C; N-CAD; Nc; Ncad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227442 representing NM_007664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCCGGATAGCGGGAGCGCCGCGGACCTGCTGCCGTTCTGGCGCCTTGCTTCAGGCGTCTGTGG
 AGGCTTCTGGTGAAATTGCATTATGCAAGACTGGATTTCTGAAGATGTTTACAGCGCAGTCTTACCGAA
 GGATGTGCACGAAGGACAGCCCTTCTCAATGTGAAATTCAGCAACTGCAATAGAAAAAGGAAAGTTCAG
 TATGAAAGCAGCGAGCCAGCAGATTTCAAGGTGGACGAGGACGGCACGGTGTATGCTGTGAGAAGCTTCC
 CTCTCACTGCAGAGCAGGCAAAGTTCCTGATATATGCCAAGACAAGAAACCCAGGAAAAGTGGCAGGT
 AGCTGTAAACCTGAGCCGGGAGCCAACCCTGACTGAGGAGCCTATGAAGGAACCACATGAAATTGAAGAA
 ATAGTATTCCTAGACAACCTGCCAAGCACAGTGGAGCTCTACAAAGGCAGAAGAGAGACTGGGTATCC
 CGCAATCAACTTGCCAGAAAACCTCAGAGGACCCTTTCCTCAAGAGCTTGTGAGAATCAGTCTGATAG
 AGATAAAAACCTTCCCTGAGATACAGCGTCACTGGGCCAGGAGCTGACCAGCCTCAACGGGCATCTTC
 ATTATCAACCCCATCTCAGGACAGCTGTAGTCAAAAGCCTCTGGATCGAGAGCTGATAGCCCGGTTTC
 ACTTGAGAGCACATGCAGTGGACATCAATGGCAATCAAGTGGAGAACCCATTGACATTGTCATCAATGT
 TATTGACATGAATGATAACAGACCTGAGTTTCTGCACCAGGTTTGGAAATGGGTCTGTTCCAGAGGGATCA
 AAGCCTGGGACGTATGTGATGACGGTCACTGCCATTGATGCGGATGATCCAAATGCCCTGAATGGAATGC
 TGCGGTACAGGATCCTGTCCCAGGCGCCAGCACACCTTACCCTAACATGTTTACAATCAACAATGAGAC
 TGGGGACATCACTGTGGCAGCTGGTCTGGATCGAGAGAAAGTGAACAGTATACGTTAATAATTCAA
 GCCACAGACATGGAAGGCAATCCCACTTATGGCCTTTCAAACACAGCCACAGCCGTATCAGCGGTGACAG
 ATGTCAAATGACAATCCTCCAGGTTTACTGCCATGACTTCTACGGAGAAGTCCCTGAGAACAGGTTGGA
 CGTCATTGTAGCCAACCTAACTGTACGGACAAGATCAGCCCCACAGCCGGCCTGGAATGCGGCATAC
 AGAATCAGTGGTGGAGACCCTACAGGAAGTTTGGCCATCCTGACAGACCCCAACGCAATGATGGCCTAG
 TCACAGTGGTAAAACCAATTGACTTTGAAACGAATAGGATGTTTGTCTTACTGTTGCTGCAGAAAACCA
 AGTGCCATTAGCTAAAGGCATTACGACCCACCTCAGTCGACAGCCACTGTGTCTGTGACAGTTATTGAT
 GTCAATGAAAATCCTTATTTGCCCAAATCCTAAAATCATTGCGCAAGAGGAAGGCCTCCACGCAGGTA
 CCATGCTGACCACGCTCACTGCTCAGGACCCCGATCGATATATGCAACAGAATATCAGATACACAAAATT
 GTCTGATCCTGCCAACTGGCTGAAAATAGACCCCGTGAATGGGCAGATCACTACTATTGCCGTTTTGGAC
 AGAGAATCGCAAATGTAAAAACAACATCTATAATGCTACCTTCCTTGCTTCTGACAATGGAATCCCGC
 CTATGAGTGGGACAGGAACACTGCAAACTATTTACTTGATATCAATGACAACGCCCTCAGGTGTTACC
 TCAAGAGGCGGAGACCTGTGAAACTCCAGAACCAACTCAATTAACATCACAGCACTTGATTATGACATA
 GACCCAAACGCCGGGCCGTTTCGGTGTGATCTTCCCTTATCTCCAGTGACTATTAAGAAAGAACTGGACCA
 TCAACCGGCTTAATGGTGATTTTGTCTCAGCTCAATTTAAAGATAAAAATTTTGGAAAGCTGGTATCTATGA
 AGTTCCCATCATTATCACAGATTCAGGGAATCCCCCAAGTCCAACATTTCCATCCTGCGTGTGAAAAGTT
 TGTCAGTGTGACTCCAATGGAGACTGCACGGACGTGGACAGGATCGTGGGTGCAGGGCTTGGCACGGGCG
 CCATCATCGCTATCCTTCTGTGTATCATCATCTGTGATCCTTGTCTCATGTTTGTGGTATGGATGAA
 ACGGCGGGATAAAGAGCGCCAAGCCAAGCAGCTTTAATTGACCCAGAAGATGATGTAAGAGATAATATA
 TTGAAATATGATGAAGAAGGTGGAGGAGAAGAAGACCAGGACTATGACTTGAGCCAGCTCCAGCAACCAG
 ATACTGTGGAGCCTGATGCCATCAAGCCGTGGGAATCAGACGGCTAGACGAGAGGCCTATCCATGCTGA
 GCCACAGTACCCAGTCCGATCCGCAGCCCCACACCCTGGGGATATTGGGGACTTCATTAATGAGGGCCTT
 AAAGCTGCTGACAACGACCCACGGCGCCACCGTATGACTCCCTCTTAGTCTTTGACTACGAGGGCAGCG
 GCTCCACGGTGGCTCCTTGAGCTCCCTCAACTCCTCCAGTAGCGGTGGGGACCAGGACTATGACTACCT
 GAATGACTGGGGACCCGCTTCAAGAACTGGCGGACATGTACGGCGGTGGTGACGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227442 representing NM_007664
Red=Cloning site Green=Tags(s)

MCRIAGAPRTLLPLLAALLQASVEASGEIALCKTGFPEDVYSAVLPKDVHEGQPLLNVKFSNCNRKRKVQ
 YESSEPADFVKVDEDTVYAVRSFPLTAEQAKFLIYAQDKETQEKWQVAVNL SREPTL TEEMKPEHEIEE
 IVFPRQLAKHSGALQRQKRDWVIPPINLPENSRGPFQELVRI RSDRDKNLSLRYSVTGPADQPPTGIF
 IINPISGQLSVTKPLDRELIARFHLRAHAVDINGNQVENPIDIVINVIDMNDNRPEFLHQVWNGSVPEGS
 KPGTYVMTVTAIDADDPNALNGMLRYRILSQAPSTPSNMFTINNETGDIITVAAGLDREKVQQYTLIIQ
 ATDMEGNPTYGLSNTATAVITVDVNDNPEFTAMTFYGEVPENRVDVIVANLTVTDKDPHTPAWNAAY
 RISGGDPTGRFAILTDPNSNDGLVTVVKPIDFETNRMFVLTVA AENQVPLAKGIQHPPQSTATVSVTVID
 VVENPYFAPNPKIIRQEEGLHAGTMLTTLTAQDPDRYMQNIRYTKLSDPANWLKIDPVNGQITTI AVL D
 RESPNVKNNIYNATFLASDNGIPPMSGTGLQIYLLDINDAPQVLPQEAETCETPEPNSINITALDYDI
 DPNAGPFAFDLPLSPVTIKRNWTINRLNGDFAQLNLKIKFLEAGIYEVPIIITDSGNPPKSNISILRVKV
 CQCDSDNGDCTDVRIVGAGLGTGAI IAILLCIIILLILVLMFVVMKRRDKERQAKQLLIDPEDDVRDNI
 LKYDEEGGGEEDQDYDLSQLQPPDTEPDAIKPVGIRRLDERPIHAEPQYPVRS AAPHPGDIGDFINEGL
 KAANDNPTAPPYDSSLVFDYEGSGSTAGSLSSLNSSSSGGDQDYDYLNDWGRPFKKLADMYGGGDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

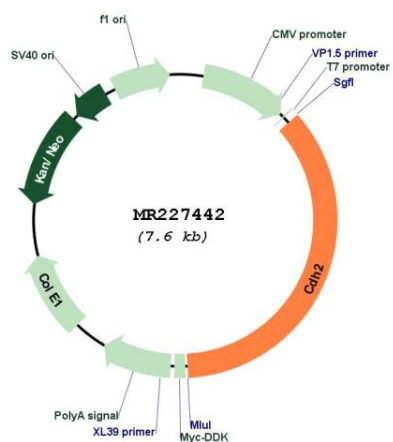


* The last codon before the Stop codon of the ORF

ACCN: NM_007664

ORF Size:	2718 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:	<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:	NM_007664.5
RefSeq Size:	4646 bp
RefSeq ORF:	2721 bp
Locus ID:	12558
UniProt ID:	P15116
Cytogenetics:	18 10.1 cM
MW:	100.2 kDa
Gene Summary:	This gene encodes a member of the cadherin family of calcium-dependent glycoproteins that mediate cell adhesion. The encoded preproprotein undergoes proteolytic processing to generate a mature protein. Mice lacking the encoded protein exhibit severe developmental defects resulting in embryonic death. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR227442