

Product datasheet for **MR227372**

Cdh1 (NM_009864) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh1 (NM_009864) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh1
Synonyms:	AA960649; ARC-1; E-ca; E-cad; E-cadh; Eca; Ecad; L-C; L-CAM; Um; UVO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227372 representing NM_009864
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGCCCGGTGCCGAGCTTTCCGCGCTCCTGCTCCTGCTGCAGGTCTCCTCATGGCTTTGCCAGG
 AGCTGGAGCCTGAGTCTGCAGTCCCGGCTTCAGTTCCGAGGTCTACACCTTCCCGTGCCGGAGAGGCA
 CCTGGAGAGAGGCCATGTCTGGGCAGAGTGAGATTTGAAGGATGCACTGGCCGGCCAAGGACAGCCTTC
 TTTTCGGAAGACTCCCGATTCAAAGTGGCGACAGACGGCACCATCACAGTGAAGCGGCATCTAAAGCTCC
 ACAAGCTGGAGACCAGTTTCTCGTCCGCGCCCGGACTCCAGTCATAGGGAGCTGTCTACCAAAGTGAC
 GCTGAAGTCCATGGGACACCACCATCACCGGCACCACCACCGCGACCCTGCCTCTGAATCCAACCCAGAG
 CTGCTCATGTTTCCAGCGTGTACCCAGGTCTCAGAAGACAGAAACGAGACTGGGTATCCCTCCCATCA
 GCTGCCCGAAAAATGAAAAGGGCGAATTTCCAAGAACCTGGTTCAGATCAAATCCAACAGGGACAAGA
 AACAAAGTTTTCTACAGCATCACCGGCCAAGGAGCTGACAAACCCCGTTGGCGTTTTATCATTGAG
 AGGGAGACAGGCTGGCTGAAAGTGACACAGCCTCTGGATAGAGAAGCCATTGCCAAGTACATCCTCTATT
 CTCATGCCGTGTATCAAATGGGGAAGCGGTGGAGGATCCCATGGAGATAGTGATCACAGTGACAGATCA
 GAATGACAACAGGCCAGAGTTTACCCAGCCGGTCTTTGAGGGATTGTTGAGAGGCGCTGTTCCAGGA
 ACCTCCGTGATGAAGGTCTCAGCCACCGATGCAGACGATGACGTCAACACCTACAACGCTGCCATCGCCT
 ACACCATCGTCAGCCAGGATCCTGAGCTGCCTCACAAAAACATGTTCACTGTCAATAGGGACACCGGGGT
 CATCAGTGTGCTCACCTCTGGGCTGGACCGAGAGAGTTACCCTACATACACTCTGGTGGTTCAGGCTGT
 GACCTTCAAGGTGAAGGCTTGAGCACAACAGCCAAGGCTGTGATCACTGTCAAGGATATTAATGACAACG
 CTCCTGTCTTCAACCAAGCAGTATCAGGGTCAAGTGCCTGAGAATGAGGTCAATGGCCGGATGCCAC
 ACTCAAAGTGACCGATGATGATGCCCAACACTCCGGCGTGGAAAGCTGTGTACACCGTAGTCAACGAT
 CCTGACCAAGCAGTTCTGTTGTGTACAGACCCACGACCAATGATGGCATTGTTGAAAACAGCCAAGGGCT
 TGGATTTTGGAGCAAGCAGCAATACATCCTTCATGTGAGAGTGGAGAACGAGGAACCTTTGAGGGGTC
 TCTTGTCCCTTCCACAGCCACTGTCACTGTGGACGTGGTAGACGTGAATGAAGCCCCATCTTTATGCCT
 GCGGAGAGGAGAGTGAAGTGCCCGAAGACTTTGGTGTGGGTGAGGAAATCACATCTTATACCGCTCGAG
 AGCCGGACACGTTTATGGATCAGAAGATCACGTATCGGATTTGGAGGGACTGCCAAGTGGCTGGAGAT
 TAACCCAGAGACTGGTGCCATTTTACGCGCGCTGAGATGGACAGAGAAGACGCTGAGCATGTGAAGAAC
 AGCACATATGTAGCTCTCATCATCGCCACAGATGATGGTTCACCCATTGCCACTGGCAGGGCCTCTTC
 TCCTGGTCTGTTAGACGTCAATGACAACGCTCCCATCCAGAACCTCGAAACATGCAGTTCTGCCAGAG
 GAACCCACAGCCTCATATCATCACCATCTTGGATCCAGACCTTCCCCCAACACGTCCTCCCTTTACTGCT
 GAGCTAACCCATGGGGCCAGCGTCAACTGGACATTGAGTATAATGACGCAGCTCAAGAATCTCTCATT
 TGCAACCAAGAAAGGACTTAGAGATTGGCGAATACAAAATCCATCTCAAGCTCGCGGATAACCAAGAA
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 TTCTGATCCTGCTGCTCCTACTGTTTCTACGGAGGAGAACGGTGGTCAAAGAGCCCCTGCTGCCACCAGA
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 TTGAGCCAGCTGCACAGGGCCTGGATGCCCGACCGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 TGAGCGTGCCCAAGTATCGTCCCGTCTGCAATCCTGATGAAATTGGAACCTCATCGATGAAAACCT
 GAAGGCAGCCGACAGCGACCCACGGCACCCCTTACGACTCTCTGTTGGTGTTCGATTACGAGGGCAGT
 GGTTCGAAGCCGCTAGCCTGAGCTCACTGAACCTCTGAGTCGGATCAGGACCAGGACTACGATTATC
 TGAACGAGTGGGGCAACCGATTCAAGAAGCTGGCGGACATGTACGGCGGTGGTGGAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227372 representing NM_009864
Red=Cloning site Green=Tags(s)

MGARCRSFSALLLLLQVSSWLCQELEPESCSPGFSSEVYTFPVPERHLERGHVLRVRFEGCTGRPRTAF
 FSEDSRFKVATDGTITVKRHLKHLKLETSFLVRARDSSHRELSTKVTLKSMGHHHHRRHHRDPASESNPE
 LLMFPSVYPGLRRQKRDWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGGADKPPVGVFIEE
 RETGWLKVTQPLDREAI AKYILYSHAVSSNGEAVEDPMEIVITVDQNDNRPEFTQPVFEGFVAEGAVPG
 TSVMKVSATDADDDVNTYNAAIAYTIIVSQDPELPHKNMFTVNRDGTGIVSVLTSGLDRESYPTYTLVVQAA
 DLQGEGLSTTAKAVITVKDINDNAPVFNPNSTYQGGVQVPEVFNARIATLKVTD DDPNTPAWKAVYTVVND
 PDQQFVVVTDPTTNDGILKTAKGLDFEAKQQYILHVRVENEPEFEGSLVPSTATVTVDDVDVNEAIFMP
 AERRVEVPEDFGVGEITSYTAREPDTFMDQKITYRIWRDTANWLEINPETGAIFTRAEMDREDAEHVKN
 STYVALIIATDDGSP IATGTGTTTTLLLDVNDNAPIPEPRNMQFCQRNPQPHIITILD PDLPPNTSPFTA
 ELTHGASVNWITIEYNDAAQESLILQPRKLEIGEYKIHKLADNQNKDQVTTLDVHVCDC EGTVNNCMKA
 GIVAAGLQVPA I LGILGILALLLILLLLLFLRRRTVVK EPLPPDDDRDNVYYYDEEGGEDDQDFD
 LSQ LHRGLDARPEVTRNDVAPTLM SVPQYRPRANPDEIGNFIDENLKAADSPTAPPYD SLLVFDYEGS
 GSEASLSSLNSESDQDQDYDYLNEWGNRFKKLADMYGGGEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

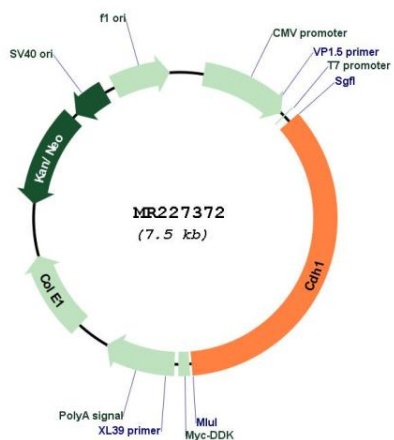
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_009864
ORF Size:	2652 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_009864.3 , NP_033994.1
RefSeq Size:	4413 bp
RefSeq ORF:	2655 bp
Locus ID:	12550
UniProt ID:	P09803
Cytogenetics:	8 53.18 cM
MW:	98.7 kDa
Gene Summary:	This gene encodes E-cadherin, a calcium-dependent cell adhesion molecule that functions in the establishment and maintenance of epithelial cell morphology during embryogenesis and adulthood. The encoded preproprotein undergoes proteolytic processing to generate a mature protein. Targeted mutations disrupting binding of calcium to the encoded protein in mice cause death in utero due to failed blastocyst and trophectoderm formation. This gene is located adjacent to a related cadherin gene on chromosome 8. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR227372