

Product datasheet for **MR223112**

Cdh7 (NM_172853) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh7 (NM_172853) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh7
Synonyms:	9330156F07Rik; CDH7L; CDH7L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223112 representing NM_172853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTGGCCAAAGTGGAGTTGTGCCATTTTCTACAGCTTATAGCTCTCTTCCTTTGCTTCTCTGGAA
 TGAGTCAAGCTGAGCTGCCACGGTCCAGATCCAAGCCATACTTCCAGTCAGGAAGGTCCCGACCAAGCG
 CAGCTGGGTTTGAATCAGTTCTTCGTGCTGGAAGAATACATGGGTTCCAGATCCCCTCTATGTAGGGAAG
 CTCCACTCTGATGTTGATAAAGGAGACGGTTCATCAAGTACATCTTGTGAGCGGAAGGGCAAGTTCAA
 TTTTCATTATTGATGAGAACACTGGTGATATCCATGCTACCAAGAGACTGGATCGGGAGGAGCAGGCCTA
 TTATACACTGAGAGCCCAAGCTCTGGACAGACTCACCAACAAGCCTGTGGAGCCTGAATCAGAGTTTGT
 ATCAAGATTCAGGATATCAATGACAATGAACCCAAATTTCTAGATGGTCCATACACAGCAGGAGTTCCTG
 AGATGTCTCCTGTAGGGACTTCAGTGGTACAAGTGACAGCAACAGATGCCGATGATCCTACATATGGCAA
 CAGTGCTCGAGTGGTGTATAGTATCTTCAAGGACAGCCATATTTCTCAGTGGAACCCAAAACAGGAGTC
 ATCAAGACTGCCCTTCCAACATGGATAGAGAGGCTAAAGACCAGTATTTGCTTGTCAATTCAGGCAAAGG
 ATATGGTTGGTCAAAATGGCGGACTGTCTGGAACCACTCAGTACTGTGACCCTAACTGATGTCAATGA
 TAACCCACCTCGATTTCCACGAAGATCTTATCAGTATAATGTTCCAGAATCTTTGCCGTGGCATCAGTT
 GTGGCCAGAATTAAGCTGCAGATGCAGATATAGGAGTCAATGCAGAAATGGAATACAAAATAGTGGATG
 GTGATGGACTGGGCATTTTCAAGATATCTGCTGACAAAGACACACAAGAAGGAATCATTACAATACAAA
 GGAACCTGATTTTGAAGCCAAAACGAGTTATACACTGCGCATAGAAGCTGCAATCGAGATGCTGATCCC
 CGGTTTCTGAGCTTGGGTCCATTTCAGTGACACAACAACGGTTAAGATAATTGTGGAAGATGTGGATGAGC
 CCCCTGTTTTTTTCCACCTTGTATCCCATGGAGGTGTCAGAAGCGACACAGGTGGGGCATATCATTGG
 CACTGTAGCAGCTCATGACCCAGATTCTTCCAACAGCCCTGTGAGATATTCAATTGACAGAAACACAGAC
 TTGGAGAGATATTTCAATATTGATGCCAACAGTGGAGTTATTACTACTGCCAAATCATTGGATCGAGAGA
 CAAATGCGGTTTCAACATTACAGTCTTGCAATGGAGAGCCAGAATCCATCCCAGGTGGGGAGAGGCTA
 CGTGGCCATTACTATACTGGATATTAACGACAACGCACCTGAGTTCGCCATGGACTATGAAACCACTGTC
 TGTGAAAACGCTCAGCCAGGGCAGGTTATCCAGAAAATCAGTGCAGTAGATAAAGATGAGCCATCCAATG
 GACACCAGTTTTACTTCAGCTTAACAACAGACATGACAAATAACCACAACTTTTTCATTGAAAGATAACAA
 AGACAATACAGCCTCAATACTCACGAGAAGAAATGGCTTCCGAAGACAGGAACAATCAGTTTATTATCTG
 CCCATTTTCATTGTGGACAGTGGATCTCCTTCACTAAGCAGTACCAACACACTTACCATCCGTGTATGTG
 ACTGTGATGCTGATGGCATAGCCAGACCTGCAATGCAGAGGCCTATGTTCTACCTGCTGGCCTCAGCAC
 TGGGGCCTTGATAGCAATACTGGCCTGTGCTCCTGACACTATTGGTGTGATCCTCCTCATTGTCACTATG
 AGAAGACGAAAAAAGAGCCTCTCATTTTTGATGAGGAGAGGGATATCAGAGAAAACATAGTCAGATATG
 ATGATGAAGGCGGGGAGAGAAGAAGACACAGAAGCCTTTGACATGGCTGCGCTGAGAAACCTCAATGCCAT
 AAGAGACAGCAAACTCGGAGAGATGTGACTCCTGAAATTCAGTCTTGGAGTTCGACCGACTTTTAAAAAC
 ATCCCAGATAATGTCATTTTTAGGGAATTTATTTGGGAAAGACTGAAAGAAGCTGATGTGGATCCAGGGG
 CTCCACCATATGACTCTTTCAGACTTATGCATTTGAAGGAAATGGCTCAGTAGCTGAATCTCTCAGTTC
 TTTAGATTCATCAGCTCAAACCTGATCAGAATTATGACTACCTTAGTGACTGGGGTCCCCGTTTTAA
 CGACTAGCTGAAATGTATGAAAATGGCCAAGAGAGTTTGTACTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223112 representing NM_172853
Red=Cloning site Green=Tags(s)

MKLGKVELCHFLQLIALFLCFSGMSQAELPRSRSKPYFQSGRSRTRKRSWVWNQFFVLEEYMGSDPLYVVGK
LHSDVDKGDGSIKYILSGEGASSIFIIDENTGDIHATKRLDREEQAYYTLRAQALDRLTNKPVEPESEFV
IKIQDINDNEPKFLDGPYTAGVPEMSPVGTSSVQVTATDADDPTYGNSARVVYSILQGQPYFSVEPKTGV
IKTALPNMDREAKDQYLLVIQAKDMVGQNGGLSGTTSVTVTLDVNDNPPRFPRRSYQYVNPESLPVASV
VARIKAADADIGVNAEMEYKIVDGDGLGIFKISADKDTQEGIIITIQKELDFEAKTSYTLRIEAANRDADP
RFLSLGPFSDTTTVKIIIVEDVDEPPVFSPLYPMEVSEATQVGHIIIGTVAHDPDSSNSPVRYSIDRNTD
LERYFNIDANSGVITTAKSLDRETNVHNITVLAMESQNPSQVGRGYVAITILDINDNAPEFAMDYETTV
CENAQPGQVIQKISAVDKDEPSNGHQFYFSLTTDMTNNHNFSLKDNKDNTASILTRRNGFRREQSVYYL
PIFIVDSGSPSLSSTNTLTIRVCDADGIAQTCNAEAYVLPAGLSTGALIAILACVLTLLVILLIVTM
RRRKKEPLIFDEERDIRENIVRYDDEGGGEEDTEAFDMAALRNLAIRDSKTRRDVTPEIQFLSRPTFKN
IPDNVIFREFIWERLKEADVDPGAPPYDSLQTYAFEGNGSVAESLSSLDSSNSDQNYDYLSDWGPRFK
RLAEMYGNGQESLYS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172853

ORF Size: 2355 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:

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_172853.3](#), [NP_766441.1](#)

RefSeq Size: 3353 bp

RefSeq ORF: 2358 bp

Locus ID: 241201

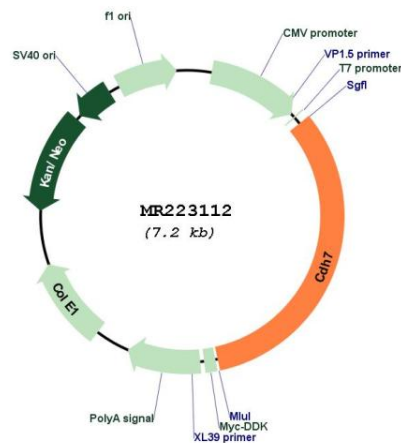
UniProt ID: [Q8BM92](#)

Cytogenetics: 1 E2.1

MW: 87.7 kDa

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. Alternative splicing results in multiple transcript variants encoding different isoforms. This gene is located adjacent to a related cadherin gene on chromosome 1. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR223112