

Product datasheet for **MR227582**

Cdh3 (NM_001037809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh3 (NM_001037809) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh3
Synonyms:	AI385538; Ca; Cadp; Cdhp; P-cad; P-cadherin; Pc; Pcad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227582 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTTCTTAGTGGGCTCACGCCCTCCTGCTCCTCTGCTCCAGGTTTGCTGGCTACGCAGCGTGG
 TCTCCGAGCCCTACCGAGCGGGCTTCATCGGGGAGGCTGGAGTGACCTTGAGGTTGGAAGGAACTGACCT
 GGAGCCGAGCCAAGTTCTGGGAAAGTAGCCTTGCCGGACAGGGCATGCACCATGCAGACAATGGAGAC
 ATCATTATGCTGACTAGGGGGACAGTTCAGGGAGGGAAGGATGCGATGCACTCCCCACCCACCCGCATCT
 TAAGGAGACGAAAGAGAGAGTGGGTGATGCCACCAATATTCGTCGCCGAGAATGGCAAGGGTCCCTTCCC
 TCAGAGGCTGAATCAGCTCAAATCTAATAAGGACAGAGGCACCAAGATTTTCTACAGCATCACAGGGCCT
 GGGCAGACAGTCCCCCGAAGGAGTCTCACCATAGAGAAGGAGTCGGGCTGGCTGTTGTTGCATATGC
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 AGAGGAGCCCATGAACATATCCATCATTGTGACAGACCAGAATGACAACAAGCCCAAGTTCACTCAAGAC
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 AGGACGATGCTGTCAACACTTACAATGGGGTGGTGGCTTACTCCATCCATAGCCAAGAGCCGAAGGAGCC
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 TCGCCAGCGTGGCGTGCCACCTACCACATCGTGGGAGGTGATGATGGGGACCATTCACCATCACCCTC
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 GGCATCTTGATCGTGGAGCAGCAGTGTGAAAAACAATGTCTACGAAGTATGTTTGGCCACAG
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 GACTGCCATGGCCAAGTGTCAATGACTGCCCCAGACCCTGGAAGGGTGGTTTTCATCCTCCCATCCTGG
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 ACCAGGATCAGGACTACAACCTTAAACGAGTGGGGAAGTCGATTCAAGAACTGGCGGACATGTATGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227582 protein sequence
 Red=Cloning site Green=Tags(s)

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MELLSGPHAFLLLLLQVCWLRVSVSEPYRAGFIGEAGVTLEVEGTDLEPSQVLGKVALAGQGMHHADNGD
IIMLTRGTVQGGKDAMHSPPTRILRRRKREWVMPPIFVPENGGKPFQRLNQLKSNKDRGTFYFYSITGP
GADSPPEGVFTIEKESGWLLLHMPLDREKIVKYELYGHAVSENGASVEEPMNISIIIVTDQNDNPKKFTQD
TFRGSVLEGVMPGTSVMQVTATDEDDAVNTYNGVVAYSIIHSQEPKEPHDLMFTIHKSTGTISVISSGLDR
EKVPEYRLTVQATDMDGEGSTTTAEAVVQILDANDNAPEFEPQKYEAWVPENEVGHEVQRLTVTDLDVFN
SPAWRATYHIVGGDDGDHFTITTHPETNQVLTTKKGLDFEAQDQHTLYVEVTNEAPFAVKLPTATATVV
VHVKDVNEAPVFVPPSKVIEAQEGISIGELVCIYTAQDPDKEDQKISYTI SRDPANWLA VDPDSGQITAA
GILDREDEQFVKNNVYEMVLATDSGNPPTTGTGTLTLLTLDINDHGPIPEPRQIIICNQSPVPQVLNIT
DKDLSPNSSPFQAQLTHSDIYWMAEVSEKGDVALSLKKFLKQDYLHLSLSDHGNREQLTMIRATVC
DCHGQVFND CPRPWKGGFILPILGAVLALLTLLALLLVRKKRVKEPLLPEDDTRDNV FYYGEEGGG
EEDQDYDITQLHRGLEARPEVLRNDVVP TFIPTMYRPRPANPDEIGNFIIENLKAANTDPTAPPYDSL
LVFDYEGSGS DAASLSSLTTSASDQDQDYNLNEWGSRFKKLADMYGGGEDD
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001037809

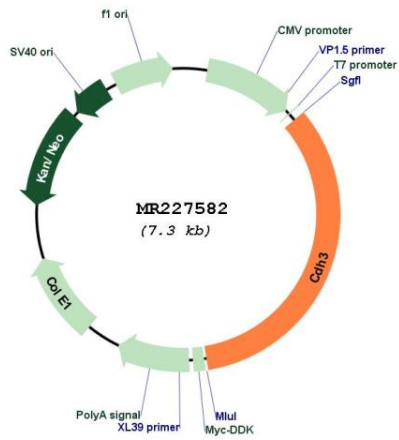
ORF Size: 2469 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001037809.1</u> , <u>NM_001037809.2</u> , <u>NM_001037809.3</u> , <u>NM_001037809.4</u> , <u>NM_001037809.5</u> , <u>NP_001032898.1</u>
RefSeq Size:	4037 bp
RefSeq ORF:	2469 bp
Locus ID:	12560
UniProt ID:	<u>P10287</u>
Cytogenetics:	8 53.16 cM
MW:	90.6 kDa
Gene Summary:	This gene encodes a calcium-dependent cell-cell adhesion protein containing five cadherin domains. The encoded protein plays a role in epithelial outgrowth, such as that which occurs during the development of hair follicles and limb buds. Loss of function of the related gene in humans results in ectodermal dysplasia, ectrodactyly, and macular dystrophy and congenital hypotrichosis with juvenile macular dystrophy. This gene is located in the vicinity of similar cadherin genes on chromosome 8. The proprotein is further cleaved into a functional chain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MR227582