OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR227345

Cdh3 (NM_007665) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh3 (NM_007665) 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)

ORF Nucleotide Sequence:

>MR227345 representing NM_007665
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTTCTTAGTGGGCCTCACGCCTTCCTGCTCCTCCTGCTCCAGGTTTGCTGGCTACGCAGCGTGG
TCTCCGAGCCCTACCGAGCGGGCTTCATCGGGGAGGCTGGAGTGACCTTGGAGGTGGAAGGAACTGACCT
GGAGCCGAGCCAAGTTCTGGGGAAAGCCTTGGCTGGACAGGGCATGCACCATGCAGACAATGGAGACATC
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GGAGACGAAAGAGAGAGTGGGTGATGCCACCAATATTCGTCCCCGAGAATGGCAAGGGTCCCTTCCCTCA
GAGGCTGAATCAGCTCAAATCTAATAAGGACAGAGGCACCAAGATTTTCTACAGCATCACAGGGCCTGGC
GCAGACAGTCCCCCCGAAGGAGTCTTCACCATAGAGAAGGAGTCGGGCTGGCTGTTGTTGCATATGCCAC
TGGACAGGGAGAAGATTGTCAAGTACGAGCTTTATGGCCACGCTGTATCTGAGAATGGTGCCTCTGTAGA
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TTCAGAGGGAGTGTTCTGGAGGGAGTAATGCCTGGCACTTCTGTGATGCAGGTGACAGCCACAGATGAGG
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CAGAGACCAACCAAGGCGTCCTGACAACCAAGAAGGGTTTGGATTTTGAGGCTCAGGACCAACACACCCT
GTATGTAGAAGTGACCAACGAGGCTCCCTTTGCAGTGAAGCTCCCGACAGCCACTGCCACCGTGGTGGTC
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ATCTTGGATCGTGAGGACGAGCAGTTTGTGAAAAACAATGTCTACGAAGTCATGGTTTTGGCCACAGACA
GTGGAAACCCTCCCACCACCGGCACTGGGACCCTCCTGCTTACACTTACTGACATCAACGACCATGGCCC
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TGCCATGGCCAAGTGTTCAATGACTGCCCCAGACCCTGGAAGGGTGGTTTCATCCTCCCCATCCTGGGTG
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GCCCCTTCTGCTCCCAGAAGATGACACGCGAGACAATGTCTTCTATTATGGAGAAGAGGGTGGTGGTGAA
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GTTTTTGACTACGAGGGCAGCGGCTCTGATGCCGCCTCCCTGAGCTCCCTCACCACCTCCGCCTCCGACC
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CGGTGAGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227345 representing NM_007665
Red=Cloning site Green=Tags(s)

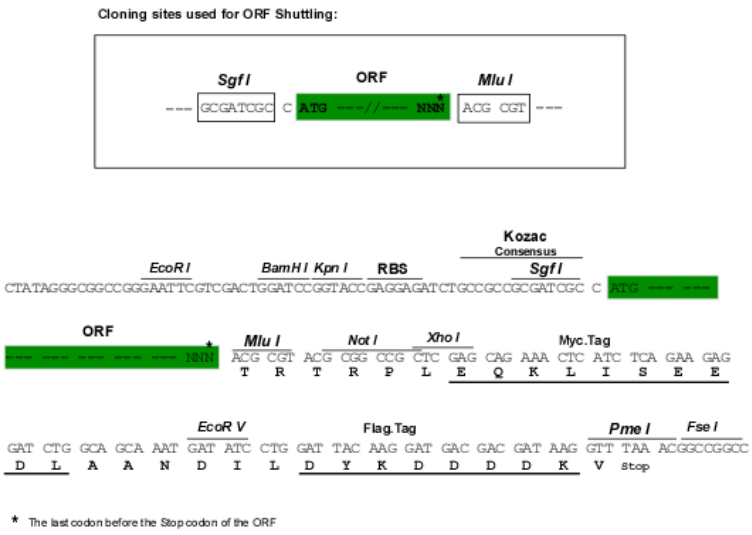
MELLSGPHAFLLLLLQVCWLRSVVSEPYRAGFIGEAGVTLEVEGTDLEPSQVLGKALAGQGMHHADNGDI
IMLTRGTVQGGKDAMHSPPTRILRRRKREWVMPPIFVPENGKGPFPQRLNQLKSNKDRGTKIFYSITGPG
ADSPPEGVFTIEKESGWLLLHMPLDREKIVKYELYGHAVSENGASVEEPMNISIIVTDQNDNKPKFTQDT
FRGSVLEGVMPGTSVMQVTATDEDDAVNTYNGVVAYSIHSQEPKEPHDLMFTIHKSTGTISVISSGLDRE
KVPEYRLTVQATDMDGEGSTTTAEAVVQILDANDNAPEFEPQKYEAWVPENEVGHEVQRLTVTDLDVPNS
PAWRATYHIVGGDDGDHFTITTHPETNQGVLTTKKGLDFEAQDQHTLYVEVTNEAPFAVKLPTATATVVV
HVKDVNEAPVFVPPSKVIEAQEGISIGELVCIYTAQDPDKEDQKISYTISRDPANWLAVDPDSGQITAAG
ILDREDEQFVKNNVYEVMVLATDSGNPPTTGTGTLLLTLTDINDHGPIPEPRQIIICNQSPVPQVLNITD
KDLSPNSSPFQAQLTHDSDIYWMAEVSEKGDTVALSLKKFLKQDTYDLHLSLSDHGNREQLTMIRATVCD
CHGQVFNDCPRPWKGGFILPILGAVLALLTLLLALLLLVRKKRKVKEPLLLPEDDTRDNVFYYGEEGGGE
EDQDYDITQLHRGLEARPEVVLRNDVVPTFIPTPMYRPRPANPDEIGNFIIENLKAANTDPTAPPYDSLL
VFDYEGSGSDAASLSSLTTSASDQDQDYNYLNEWGSRFKKLADMYGGGEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9031_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007665

ORF Size: 2463 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_007665.3, NP_031691.1

RefSeq Size: 4034 bp

RefSeq ORF: 2466 bp

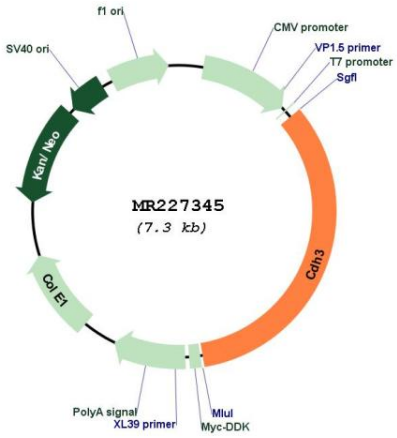
Locus ID: 12560

Cytogenetics: 8 53.16 cM

MW: 91 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 congential 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 MR227345