

Product datasheet for **MR209909**

Cdhr5 (NM_028069) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdhr5 (NM_028069) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdhr5
Synonyms:	1810074H01Rik; AI481143; Mucdhl; Mupcdh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209909 representing NM_028069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGGCTCCGGCCCTCCTGTGGCCTTCCTGTCTGGTCCATGGCTCACAGTGTCTTTGGCCAACTC
 CGGGACCTTGGCCAGACCCAGGTCTGCTCTGTGAACAGACCATATTTAGAGTCGAGGAGAACCAC
 TGTTTCTGAGCCACTGGTGAACATTTTTGTCCAGACGGCCTGCACGTGACCTTGGGACCTTGTCCACT
 CCTTATGCCTTTAGGATCGAAGGAAAAGATCTGTTTCTCAACGTGACTCCAGATTATGAGGAAAACCTCAT
 TGCTCCAGGCAGATGTGGAGTGTAAAGAGAGGAGATGCGGTGGTGTACGCCTGGAGGTGTTTGTGGCTGT
 CCTGGATATCAATGACAATGCGCCAAAATTCTCCTTTGAAATCAAGACATTTAATGTATCGGAGGACACC
 AAAGTGAATAACAACCGTCATCCCTGAGACACAGCTGAAGGCTACAGATGCTGACATAAATGACATCCTAG
 TCTACACTCTGCAGGAAGTGACCCCAATGCCAGCAAGTCTTCTCCTGGAGGGCGTAAACTACCTGC
 TCTGAAGTTGGACCAGACCTGGATTACTCAAGAATCAGAACATGACCTTCATGCTGCTGGCACGGGAT
 ACTTGGGAGGAAAATGTAGAGCCAGCCACACGGCCACTGCCACCTGGTCTTGAACACGCTGCCAGCTG
 ACCTACGGACCCCTGGTTCCTGCCATGCTCCTCACAGATGGCTATGTCTGCATTTCATGCCAATACAG
 TGCGGTTGTCCACGGGACACAACTGCCGTCCCCCTCATCATGAGTCTGGTCCCATCTATGCTGTG
 GACGGAGATCAGGCCATTAACAGTCTATCATCTACAGCATTATAGCGGAAACACAGATGGCACATTCA
 TCATCAACGCACACGATGGCAACCTCACAATGACCAAAAGTATCCCGAGCCCATGAAGTTCACCCCTTCT
 GATCAGGGCTGATCAGGAAGACATGGCTCAATACTCAGTGACCCAGGCCATCGTGGAGGCTCGCAGTGC
 ACTGGAACCCACTCCAGTCTCCAGAGCCTGTACTATGGCACAGTGGTACTGGGATCTGAGGCTGGCA
 CCTCAACTCAGCTGTACATATCGAGTCACCAACTCCTCAGAATTCATGATGAATAAGGATATCATGCTG
 ACTGCTGTGCCTATGGAGGAAGCAAGAACCATCCGTGTAGAGGTAGAAGCTAGCAATACTGTGACTAAGG
 ACACAGCCACCGCTGTTGTTGAGATCCAGGTGTCAGAGCGAGAAGTGCCTCCACAGGAGCAGGCGAGCA
 GGGTGTGGCCAGAGATTTCCACGGTGGACATGGCAGTGTGGGCGGGTGCTAGGTGCACTGCTGTTG
 CTGGCCCTCATCTGCTTGGTTCATCCTCGTCCATAAGCACTACCGACATCGGCTCGCTTGTGCTGTTG
 AGGCTTCGGAGCCACAGCAAGTGGCTATGACAACCTGACCTTCTCCAGACCACAAGGCCAAGTGGTC
 GCCACCCCAACCGGAAGCCAGAGCCGAGCCCAAGCTTGCCAGCCGCCCTCCGGCCTCTAGCCCC
 ATGTCCTCCAGTCTACGCCCCAGCTCCACACCTCCTAGCCCTCAGCCAAAGCTTCCGGGTCTCCTA
 AGACAGTCCAGGCTGGGACAGCCCTTACGCCGTGAGGTCTATCCTGACTAAGGAGCGGGCGCCGAGGG
 GGAGGGCGGCTACAAGGCTGTGTGGTTCGGAAGGACATCGGGGACAGGCTGACGTGGTGGTCTCAAC
 GAGCCACCGCGATGTGGACAGCGCCAGTGCCTCGGGAAGTGGGGCAGCGATGATGATGACCCTGACC
 AGAAGAAGACTCTCCGCTTGGCGTGGATGCTGACAACACTTACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209909 representing NM_028069
Red=Cloning site Green=Tags(s)

MGAPALLWPSLLLPLWTLVLFQPPGTLAQTQVCSVNQIFRVEENTTVSEPLVNI FVPDGLHVTLGPLST
 PYAFRIEGKDLFLNVTPTYEENSL LQADVECKRGDAVVVRLEVFVAVLDINDNAPKFSFEIKTFNVS EDT
 KVNTTVIPETQLKATDADINDILVYTLQEVTPNASKFFSLEGVNYPALKLDQTLDYFKNQNTFM LLARD
 TWEENVEPSHTATATLVLNTLPADLRTPWFLPCSFTDGYVCIHAQYSAVVPTGHKLP SPLIMSPGPIYAV
 DGDQAINQSIIYSIIAGNTDGTFIINAHDGNLTMTKSIPSPMKFTLLIRADQEDMAQYSVTQAI VEARSV
 TGNPLQFSQSLYYGTVVLGSEAGTAVKDKTFPSEILRIQAQYPGFDP LNSAVTYRVNTNSSEFMMNKDIML
 TAVPMEEARTIRVEEASNTVTKDTATAVVEIQV SERELPSTGAGEQGDGQRFSTVDMAVLGGV L GALLL
 LALICLVILVHKHYRHLACCSGKASEPQPSGYDNL TFLPDHKAKWSPTPNRKPEPSPKLAQPPLRPPSP
 MSSSPTPPSSTPPSPQPKASGSPKTVQAGDSPSAVRSIL TKERRPEGEGGYKAVWFGKDIGAEADV VV LN
 EPTADVDSASASGSEGSDDDDDPDQKKT LRFVGDADNTYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_028069

ORF Size: 2007 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_028069.3](#), [NP_082345.1](#)

RefSeq Size: 2143 bp

RefSeq ORF: 2010 bp

Locus ID: 72040

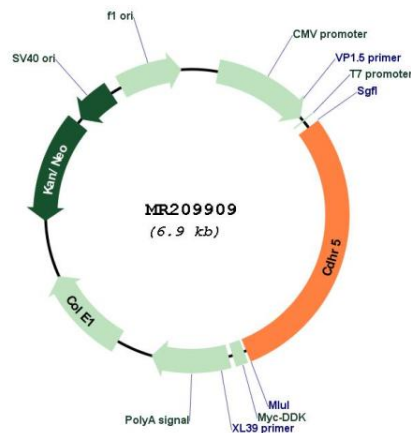
UniProt ID: [Q8VHF2](#)

Cytogenetics: 7 F5

MW: 73.1 kDa

Gene Summary: Intermicrovillar adhesion molecule that forms, via its extracellular domain, calcium-dependent heterophilic complexes with CDHR2 on adjacent microvilli. Thereby, controls the packing of microvilli at the apical membrane of epithelial cells. Through its cytoplasmic domain, interacts with microvillus cytoplasmic proteins to form the intermicrovillar adhesion complex/IMAC. This complex plays a central role in microvilli and epithelial brush border differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209909