

Product datasheet for **MR220676**

Cdhr5 (NM_001114322) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdhr5 (NM_001114322) 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:

>MR220676 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTCCGGCCCTCCTGTGGCCTTCCTGTCTGGCCATGGCTCACAGTGTGTTGGCCAACTC
 CGGGACCTTGGCCAGACCCAGGTCTGCTCTGTGAACAGACCATATTTAGAGTCGAGGAGAACCAC
 TGTTTCTGAGCCACTGGTGAACATTTTTGTCCAGACGGCCTGCACGTGACCTTGGGACCTTGTCCACT
 CCTTATGCCTTTAGGATCGAAGGAAAAGATCTGTTTCTCAACGTGACTCCAGATTATGAGGAAAACAT
 TGCTCCAGGCAGATGTGGAGTGTAAAGAGGAGATGCGGTGGTGTACGCCTGGAGGTGTTTGTGGCTGT
 CCTGGATATCAATGACAATGCGCCAAAATTCTCCTTTGAAATCAAGACATTTAATGTATCGGAGGACACC
 AAAGTGAATAACAACCGTCATCCCTGAGACACAGCTGAAGGCTACAGATGCTGACATAAATGACATCCTAG
 TCTACACTCTGCAGGAAGTGACCCCAATGCCAGCAAGTCTTCTCCTGGAGGGCGTAACTACCCTGC
 TCTGAAGTTGGACCAGACCTGGATTACTCAAGAATCAGAACATGACCTTCATGCTGCTGGCACGGGAT
 ACTTGGGAGGAAAATGTAGAGCCAGCCACACGGCCACTGCCACCCTGGTCTTGAACACGCTGCCAGCTG
 ACCTACGGACCCCTGGTTCCTGCCATGCTCCTCACAGATGGCTATGTCTGCATTTCATGCCAATACAG
 TGCGGTTGTCCACGGGACACAACTGCCGTCCCCCTCATCATGAGTCTGGTCCCATCTATGCTGTG
 GACGGAGATCAGGCCATTAACAGTCTATCATCTACAGCATTATAGCGGGAAACACAGATGGCACATTCA
 TCATCAACGCACACGATGGCAACCTCACAATGACCAAAAGTATCCCGAGCCCATGAAGTTCACCCCTTCT
 GATCAGGGCTGATCAGGAAGACATGGCTCAATACTCAGTGACCCAGGCCATCGTGGAGGCTCGCAGTGC
 ACTGGAACCCACTCCAGTCTCCAGAGCCTGTACTATGGCACAGTGGTACTGGGATCTGAGGCTGGCA
 CCTCAACTCAGCTGTACATATCGAGTCACCAACTCCTCAGAATTCATGATGAATAAGGATATCATGCTG
 ACTGCTGTGCCTATGGAGGAAGCAAGAACCATCCGTGTAGAGGTAGAAGCTAGCAATACTGTGACTAAGG
 ACACAGCCACCGCTGTTGTTGAGATCCAGGTGTACAGCGAGAAGTGCCTCCACAGAGTCCCCACACC
 CCCAGAAGCTGGAGGAACGACTGGGCCCTCAAGTAACACCACTATGGAAGCCCCCTTGACCTCTGGGACC
 TCTCAAAGACCTGCCACCACAGCTCTGGGGAAAGTGTGGCCATTCCCACCTGGTGGCACAACCTAA
 GACCACCACCCCTGCCTATCCATACCTGGGGGTCCCTACTCTTGAACACAGCCTCTCCCCAGAC
 AACCCTCCTGGTGGGACTCAGCACAGACCCCAACCAGGAACCTCTCATCCAACAGCCCTACTTCC
 AGAACAAGTACCTCCCTCATGACAACCTCATCCAGAAGTACTCAACACAGACCCCAAGCCAGGAACCT
 CTCAGCCAATGGTCCCATTCCAGGGGCCAGCACCTCTTCTCAGCCAGCCACACCTAGTGGCAGCTCACC
 ACAGACCCCAAGCCAGGAACCTCTCAGTCAACAGCCACTGGGCCATCTCAGGAGCAGGCGAGCAGGGT
 GATGGCCAGAGATTTCCACGGTGGACATGGCAGTGTGGGCGGGGTGCTAGGTGCACTGCTGTTGCTGG
 CCCTCATCTGCTTGGTCACTCCTCGTCCATAAGCACTACCGACATCGGCTCGCTTGTGCTCTGGGAAGGC
 TTCGGAGCCACAGCAAGTGGCTATGACAACCTGACCTTCTCCAGACCACAAGGCAAGTGGTCCGCC
 ACCCCCAACCGGAAGCCAGAGCCGAGCCCAAGCTTGGCCAGCCGCCCTCCGGCCTCTAGCCCCATGT
 CCTCCAGTCTACGCCCCAGCTCCACACCTCTAGCCCTCAGCCAAAGCTTCCGGGTCTCCTAAGAC
 AGTCCAGGCTGGGACAGCCCTCAGCCGTGAGGTCTATCCTGACTAAGGAGCGGCGCCGGAGGGGGAG
 GCGGGTACAAGGCTGTGTGGTTCGGCAAGGACATCGGGGCAGAGGCTGACGTGGTGGTCTCAACGAGC
 CCACCGCCGATGTGGACAGCCAGTGCCTCGGAAAGTGAAGGCAGCGATGATGATGACCCTGACCAGAA
 GAAGACTCTCCGCTTTGGCGTGGATGCTGACAACACTTACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220676 protein sequence
Red=Cloning site Green=Tags(s)

MGAPALLWPSLLLPLWTLVLFQPPGTLAQTQVCSVNQTI FRVEENTTVSEPLVNI FVPDGLHVTLGPLST
PYAFRIEGKDLFLNVTPDYEENSL LQADVECKRGDAVVVRLEVFVAVLDINDNAPKFSFEIKTFNVSEDT
KVNTTVIPETQLKATDADINDILVYTLQE VTPNASKFFSLEGVNYPALKLDQTLDYFKNQNTFM LLARD
TWEENVEPSHTATATLVLNTLPADLRTPWFLPCSFTDGYVCIHAQYSAVVPTGHKLP SPLIMSPGPIYAV
DGDQAINQSIIYSIIAGNTDGTFIINAHDGNLTMTKSIPSPMKFTLLIRADQEDMAQYSVTQAIVEARSV
TGNPLQFSQSLYYGTVVVGSEAGTAVKDKTFPSEILRIQAQYPGFPLNSAVTYRV TNSSEFMMNKDIML
TAVPMEEARTIRVEEASNTVTKDTATAVVEIQV SERELPSTEFPTPEAGGTTG PSSNTTMEAPL TSGT
SQRPATTSSGGSVGFPPGGTTLRPPTPASSIPGGSP TLGTSTSPQTTTPGGDSAQTPKPGT SHPTAPTS
RTSTSLMTTSSRSDSTQTPKPGTSQPMVIPGASTSSQPATPSGSSPQTPKPGTSQSTATGPI SGAGEQG
DGQRFSTVDMAVLGGVLGALLL LALICLVILVHKHYRHLACCSGKASEPQPSGYDNL TFLPDHKAKWSP
TPNRKPEPSPKLAQPPLRPPSPMSSSPTPPSSTPPSPQPKASGSPKTVQAGDSPSAVRSILTKERRPEGE
GGYKAVWFGKDIGAEADVVLNEPTADVDSASASGSEGSDDDDPDQK KTLRFGVDADNTYI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001114322.1](#), [NP_001107794.1](#)

RefSeq Size: 2629 bp

RefSeq ORF: 2496 bp

Locus ID: 72040

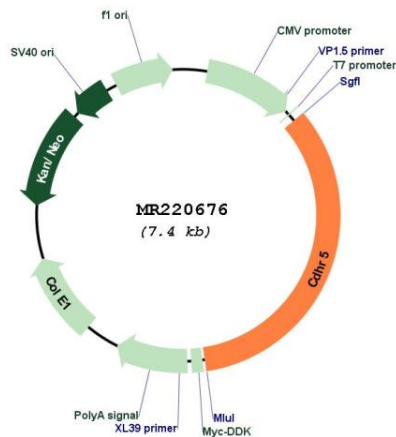
UniProt ID: [Q8VHF2](#)

Cytogenetics: 7 F5

MW: 88.2 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 MR220676