

## Product datasheet for **MG220676**

### **Cdhr5 (NM\_001114322) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdhr5 (NM_001114322) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdhr5
Synonyms:	1810074H01Rik; AI481143; Mucdhl; Mupcdh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG220676 representing NM\_001114322  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

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 TGTTTCTGAGCCACTGGTGAACATTTTTGTCCAGACGGCCTGCACGTGACCTTGGGACCTTGTCCACT  
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 TGCTCCAGGCAGATGTGGAGTGTAAAGAGGAGATGCGGTGGTGTACGCCTGGAGGTGTTTGTGGCTGT  
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 CCACCGCCGATGTGGACAGCGCCAGTGCCTCGGGAAGTGAAGGCAGCGATGATGATGACCCTGACCAGAA  
 GAAGACTCTCCGCTTTGGCGTGGATGCTGACAACACTTACATC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220676 representing NM\_001114322  
 Red=Cloning site Green=Tags(s)

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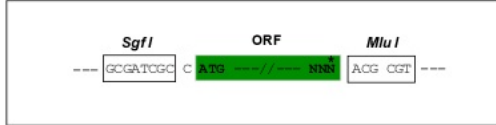
MGAPALLWPSLLLPLWLTVLFGQPPGTLAQTQVCSVNQTI FRVEENTTVSEPLVNI FVPDGLHVTLGPLST
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KVNTTVIPETQLKATDADINDILVYTLQE VTPNASKFFSLEGVNYPALKLDQTLDYFKNQNTFM LLARD
TWEENVEPSHTATATLVLN TLPADLRTPWFLPCSFTDGYVCIHAQYSAVVPTGHKLP SPLIMSPGPIYAV
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TGNPLQFSQSLYYGTVVVGSEAGTAVKDKTFPSEILRIQAQYPGF PDLNSAVTYRV TNSSEFMMNKDIML
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TPNRKPEPSPKLAQPPLRPPSPMSSSPTPPSSTPPSPQPKASGSPKTVQAGD SPSAVRSILTKERRPEGE
GGYKAVWFGKDIGAEADVVLNEPTADVDSASASGSEGSDDDDPDQK KTLRFGVDADNTYI
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



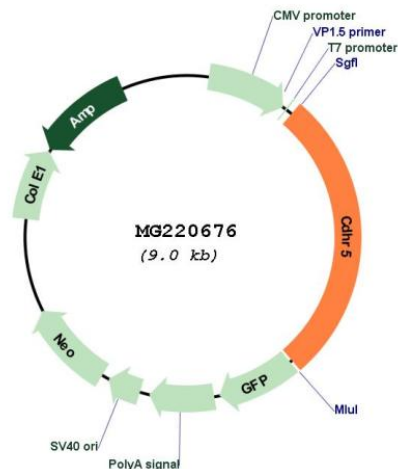
```

                                     Kozac
                                     Consensus
                                     Sgf I   Asc I
      EcoR I   BamH I Kpn I   RBS
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

      Hind III   Nhe I   Rsr II   Mlu I           Not I   Xho I           GFP Tag
CAAGCTTAACTAGCTAGCGGACCG   ACG CGT   ACG CGG   CCG CTC GAG   ATG GAG   AGC GAC --- ---
      T   R   T   R   P   L   E   M   E   S   D   -   -   -

                                     Pme I   Fse I
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
- - - E E R V Stop
```

## Plasmid Map:



ACCN: NM\_001114322

ORF Size: 2493 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\\_001114322.1](#), [NP\\_001107794.1](#)

RefSeq Size: 2629 bp

RefSeq ORF: 2496 bp

Locus ID: 72040

UniProt ID: [Q8VHF2](#)

**Cytogenetics:** 7 F5

**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]