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# Product datasheet for MC224208

## Cdhr2 (NM_001033364) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Cdhr2 (NM_001033364) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Cdhr2 |
| **Synonyms:** | Gm624; PC-LKC; Pcdh24 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **Fully Sequenced ORF:** | >MC224208 representing NM_001033364<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGCCTGGCTGTGGCTGCTTTGTGCACTGCTTCCTGCCTTCATGGTATCTGTGACAGCCAACTCGCCAC<br>CATCATTTGGGGTCAATATGACATTAGTAACCCTGCCAGAGGACTTACCAGTGGGTGCCGTGGCCTTCTG<br>GTTGGTGGCTACAGACAGTGATAATGACCACCTGACCTATGGAATCAGTGGCCCAAACGCCAGCTACTTC<br>TCCGTCAACGCGAACACTGGGGAAGTGAAGCTTGCCAGCCCTTTGGACTTTGAGACAGTTCCTTTCTTCA<br>AGATCACCATCTCCACAAGTGATGGTCTCAACATCAGAACAGCCGAGATGCAAGTGATTGTGGAAGACAG<br>AAATGATAACATACCTGTTTTCCTGAACACTGAATTCTCCACCAGCATCAATGAGACCCTGCCAGTCGGT<br>TCTGTGGTGTTTTCTGTGCTGGCAGAGGACAAGGACACAGGGACAGCCGGTTTGGTGCAATATTTCATAG<br>AGAAGGTCATCCCCAGCACCGCCAACAGCAATAATCTCTTCCGCATCCTGGAAAATGGCTCCATTGTACT<br>GAATGACACGCTCAGTTACAACAACAAGAGTGCCTTCTACCAGCTGGAGCTGAAGGCCTGTGACTCAGGG<br>GGAATATTGGATAACAAGCCAAAAACCCAATGCTCCCAGCCGGTCTTCGTATCCATCTCAGTGATTGATG<br>AGCCAGACCTGGACCCTCGGTTTATCAGGGAGTTCTACTCAGCCTCTGTGGCTGAGGATGCCACCTTGGG<br>GACGTCCGTGCTGACCGTGGAGGCTGTGGACAGTGACAAAGGCATCAATGACATTGTGACCTACAGTGTC<br>TCCAACTCCACGAGGCCTGGGTGGTTCGACATCAGGGAAGATGGGGTCATCTTCGTCAATGGCTCCCTGG<br>ACAGAGAGCAGCTGCTTCTGGAAAACGAAGAAGTGCAGATACAGGTCACGGCCACCGAGAAGAATCTGAA<br>CATCTACGGGCAAGAGGCCAAGGCAAGCATGTGGGTCACAATAAGGGTGACAGATGTCAACGACCACAAG<br>CCGGAATTTTACAACTGCAGCCTCCCTGGCTGCTCCTTTAGCCCCCAGGAGGCCCAAGTCAACTTCATAG<br>GCTACGTGGACGAGCATGCCTCTGCCCGAATCTCCATCGATGGTCTGACCATGGTGGCCTATGATCCAGA<br>CCAGGGCGACAATGGTACCTTCCTGCTGTCCCTGAATGGCCAGGATGCTGAAGCCTTCAATGTGTCCCCA<br>GAGCGAGCAGCAGGGTCTGTCAGTGTGCAGGTGGTGGTGAGAAACTCAGAGATGGTGGACTATGAGAAGG<br>AGACAGTGATGGTTGTGGAGGTTGTGGCCACTGACTCAGTCAGCAACAACTACTCTGTTGCCACGGTGAC<br>CATCCACCTTAGAAACATCAATGACCACAGGCCTGTGTTCTCTCAGAGCCTGTATGAACTCACTGTGCCA<br>GAGCACTGTCCAACAGGTTATCTGGTCACTGACAAAATCCAGGCTACAGACCTGGATGGGGATGAATGGG |



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GTCCTATCACCTACAGTCTGCTTCCAGGAAATGGAGCTGACCTGTTTGAGGTGGAGCCAAACTCAGGGAA
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GGTCGGCAGGTGCGAGCGAACAGCAGAAAAAGAATCTGTCCTTCACCAACCCTGGCCTGGACACCACAGA
TCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001033364

**Insert Size:** 3927 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001033364.3, NP_001028536.2 |
| **RefSeq Size:** | 4131 bp |
| **RefSeq ORF:** | 3927 bp |
| **Locus ID:** | 268663 |
| **UniProt ID:** | E9Q7P9 |
| **Cytogenetics:** | 13 B1 |
| **Gene Summary:** | Intermicrovillar adhesion molecule that forms, via its extracellular domain, calcium-dependent heterophilic complexes with CDHR5 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. May also play a role in cell-cell adhesion and contact inhibition in epithelial cells.[UniProtKB/Swiss-Prot Function] |