

## Product datasheet for **RR203848**

### **Cdhr5 (NM\_138525) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdhr5 (NM_138525) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdhr5
Synonyms:	Mucdhl; Mupcdh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR203848 representing NM\_138525  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTCCGGCCCTCCTGTGGCCTCCCTGCTGTTGCCATTGCTCACGGTGTGTTGGCCACCTTC  
 CAGGGACCTTGGCCAGGCTCAGGTCTGCTCTGCGAACCCAGACCGTGTACAATGAACGAGAACCAC  
 TGTTTCTGGGCCACTGGCGGACATTTTTGTCCAGAACAGCAGTATGTGACCTTGGGACAGTTGTCCACC  
 CCTAATGCCTTTAAGGTTGAGGGCAATAAGCTGTTTCTCATCGTACTCCAGATTATGAGGAAAACCTTT  
 TGCTGGAGGACAGTCTGGAGTGTAAAGAGAGGAGATACTTTGGTGACACAGTTCCAGGTGTTTGTGGCTGT  
 CCTGGACATCAATGACAATGCACCAGAATCCCTTTACAATCAAGGAATATAATGTATCGGAGGACACC  
 AGAGTGAATACGATCGTCATCCCTGAGACAGAGCTGAAGGCTACAGATGCTGACAAAGATGACATCTAG  
 TCTACACTCTGCAGGAAGTGACCCCAATGCCAGCAAGTCTTCTCCCTGGTGGGCATAAATCCCTGC  
 TCTGAAGTTGGACCAGACCTGGATTACTACAAGAGTCCGAACATGACCTTCAGGCTGCTGGCACGGGAT  
 ACTAGGGAAGAGAATGTAATCCAGCCATACGGCCACTGCCACCGTGGTCTTGAACGTGCTGCCAGCTG  
 ACCTACGGACCCCTGGTTCCTGCGGTGCTCCTTACGGATGACTACTTCTGCATTACAGGCCAGTACCA  
 CACAGTTATCCCCACAGGACACAAAAGTCCCATCCCTCTCATCTTGTGCTGGTCCCATCTATGTGTG  
 GACGGAGATCAGGCCATTAACCAGCCTATCGTCTACAGCATTATGATGGGAAACACGGATGACACATTTA  
 TCATCAACAAAGACGATGGCAACCTCACGATGGCCAAAAGTATCCCCAGCCCCATGACCTTACCCTGGT  
 GGTGAGGCTGAGCAGGCTGACATGGCTCGATACTCAGTACTCAGGCGGTTGTGGAGGCTCGAGATGTC  
 ACTGGGAACCCACTCCAGTCTCTCAGAGCCTGTACTTTGGCACGGTGGTACTGGGTTCTGAGGCTGGCA  
 CAGCAGTGAAGGACAAGACCTTCCCTTCAGAGATCCTGAGGATCCAGGCTCAGTACCTAGGCTTCCCGGA  
 CCTCAACTCGGCTGTACATATCAAGTCAACCACTCCTCAGAAATTCATCATGAATAAGGATATCTTGCTG  
 ACCACTGTGCCTATGGAGACAGAAAGAACAATCCGCATAGAGGTAGAAGCTAACAAATACTGTGACTAAAG  
 ACATAGCCACCACTATTGTGGAGATCCAGGTGTACAGAGCAGAGCCGCCCTCCACAGAGTCCCCACACC  
 CCCAGAAGCTGGAGGAACAAGTGGGCTTCAAGTAACACCACTTTGGAAACCCCTCGACCTCTGGGACC  
 TCTCAAGGACCTGCCACAACCAGCTCTGGGGGAAGTGTGGCCATTCCCACCTGCAGGCACAACCTAA  
 GCCCACTACCTTGCCCAACTGTACCTGGGGGTCCCTACTCTTGAATCAGCACCTCTCCCCAGAC  
 AGTACTCTGGTGGGATGCAACACAGACCCCAACCAGGTACCTCTCAGCCAATGGTCCCCACTCCA  
 GGGGCTAGCACCTTTCTCAGCCAGCCACCTAGTGGCAGCTCAACCCAGACCCCAACCAGGAACCT  
 CTCAGCCAATGGTCCCCACTCCAGGGGCTAGCACCTTCTCAGCCAGCCACACCTAGTGGCAGCTCAAC  
 CCAGACCCCAAGGCCAGGAACCTCTCAGCCAATGGTCCCCACTCCAGGGGCCAGCACCTTCTCAGCCA  
 GCCACACCTAGTGGCTCAACACAGACCCCAAGCCAGGAACCTCTCAGCCGACAACCCTGGGCCATAT  
 CAGGAGTAGGCGAGCTGGGTGATGGCCAGAGATTTCCACGGTGGACATGGCAGTGTGGGCGGGTGT  
 AGGGGCACTGCTGTTGCTGGCCCTCATCTTCTTGTATCCTCATCCATAAGCACTACCGACATCGGTTT  
 ACTTGTGCTCTGGCAAGGCAAGGAGCCACAGCCAAGTGGCTATGACAACCTGACCTTCTCCCAGACA  
 ACAAGGCCAAGTGGTCAACCACTCCAACCCGAAGCCAGAGCCGGGCCCTGAGCCTGTCCAGCCGCCCT  
 CCGGCCCTCCTAGTCCCATGTCTTCCAGTCCCACGCCCCAGCTCCATGCCTCCTAGCCCTCAGCCCAA  
 GCTTCCGGGTCTCCAAGACAGTCCAGGACGGGACAGTCTTCCAGCCGTGAGGTCTATCCTGACTAAGG  
 AGCGGCGGCCGGAGGGGAGGGCGGCTACAAGGCTGTGTGGTTCGCAAGGACATCGGGGACAGGCTGA  
 TGTGGTGGTCTCAACGAACCCACCGCCGACGTGGACAGCGCCAGTGCCTCGGGAAGTGAAGGGAGCGAT  
 GATGATGATGACCCTGACCAGAAGAAGAGTCTCCGCCCTTGGCGCAGTCGCAGACAACACTTACGTC

**ACGGT**ACGGGCGGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR203848 representing NM\_138525  
Red=Cloning site Green=Tags(s)

MGAPALLWPPLLLPLLTVLFGHLPGTLAQAQVCSANQTVFTMNENTTVSGPLADIFVPEDQYVTLGQLST  
PNAFKVEGNKFLIVTPDYEENSLLLEAVLECKRGDTLVTQFRVFVAVLDINDNAPEFPFTIKEYNVSEDT  
RVNTIVIPETELKATDADKDDILVYTLQEVTNASKFFSLVGINSALKLDQTLDYKSPNMTFRLLARD  
TREENVIPSHTATATVVLNVLPADLRTPWFLPCSFTDDYFCIQAQYHTVIPTGHKLPSPILSPGPIYAV  
DGDQAINQPIVYSIMMGNTDDTFIINKDDGNLTMAKSIPSPMTFTLVVRAEQADMARYSVTQAVVEARDV  
TGNPLQFSQSLYFGTVVLGSEAGTAVKDKTFPSEILRIQAQYLGFDPDLSAVTYQVNTSSEFIMNKDILL  
TTVPMETERTIRIEVEANNTVTKDIATTIVEIQVSEREPPSTESPTPEAGGTTGPSNTTLETPTSGT  
SQGPATSSGGSAGFPFPAGTTLSP LTSAPTVPGGSP TLGISTSPQTATPGGDATQTPKPGTSQPMVPTP  
GASTSSQPATPSGSSTQTPKPGTSQPMVPTPGASTSSQPATPSGSSTQTPRPGTSQPMVPTPGASTSSQP  
ATPSGSTQTPKPGTSQPTTTGPI SGV GELGDGQRFSTVDMAVLGGVLGALLLLALIFLIIL IHKHYRHRF  
TCCSGKAKEPQPSGYDNLTF L PDKAKWSPTSNRKPEPPEPVQPLRPPSPMSSSPTPPSSMPPSPQPK  
ASGSPKTVQAGDSPA VRSILTKERRPEGEGGYKAVWFGKDIGAEADVVLNEPTADVDSASASGSEGS  
DDDDPDQKKSRLRGAVADNTYV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul

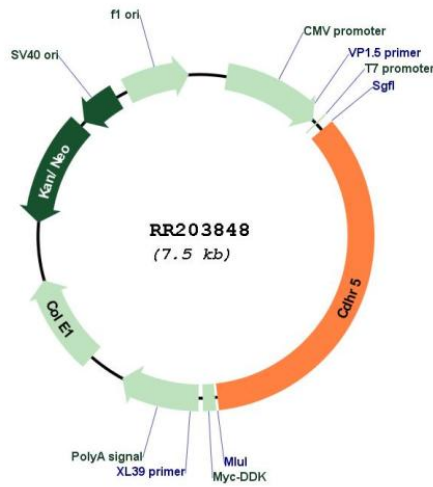
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_138525
<b>ORF Size:</b>	2586 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_138525.1</a> , <a href="#">NP_612534.1</a>
<b>RefSeq Size:</b>	2712 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	171554
<b>UniProt ID:</b>	<a href="#">Q9JIK1</a>
<b>Cytogenetics:</b>	1q41
<b>MW:</b>	91 kDa
<b>Gene Summary:</b>	cell adhesion molecule which may be involved in regulation of branching morphogenesis [RGD, Feb 2006]