

Product datasheet for **RG206397**

MUPCDH (CDHR5) (NM_031264) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUPCDH (CDHR5) (NM_031264) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MUPCDH
Synonyms:	MLPCDH; MU-PCDH; MUCDHL; MUPCDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206397 representing NM_031264
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGTCTTGGGCCCTGCTGTGGCCTCCCTGCTGTTACCGGGCTGCTCGTCCGACCCCGGGACCA
 TGCCCCAGGCCAGTACTGCTCTGTGAACAAGGACATCTTTGAAGTAGAGGAGAACAACAAATGTCACCGA
 GCCGCTGGTGGACATCCACGTCCCGGAGGGCCAGGAGGTGACCCTCGGAGCCTTGTCCACCCCTTTGCA
 TTTCCGATCCAGGGAAACCAGCTGTTTCTCAACGTGACTCCTGATTACGAGGAGAAGTCACTGCTTGAGG
 CTCAGCTGCTGTGTGAGAGCGGAGGCACATTGGTGACCCAGCTAAGGGTGTTCGTGTGCTGCTGGACGT
 CAATGACAATGCCCCGAATCCCTTTAAGACCAAGGAGATAAGGGTGGAGGAGACACGAAAGTGAAC
 TCCACCGTCATCCCGAGACGCAACTGCAGGCTGAGGACCGGACAAGGACGACATTCTGTTCTACACCC
 TCCAGGAAATGACAGCAGGTGCCAGTACTTCTCCCTGGTGTGAGTGTAAACCGTCCCGCCTGAGGCT
 GGACCGGCCCTGGACTTCTACGAGCGGCCGAACATGACCTTCTGGCTGCTGGTGGGGACTCCGGGG
 GAGAATGTGGAACCCAGCCACACTGCCACCGCCACACTAGTGTGAACGTGGTCCCGCCGACCTGCCGGC
 CCCCCTGGTTCCTGCCCTGCACCTTCTCAGATGGCTACGTCTGCATTCAAGCTCAGTACCACGGGGCTGT
 CCCCACGGGGACATACTGCCATCTCCCTCGTCTGCCGACCCATCTACGCTGAGGACGGAGAC
 CGCGGCATCAACCAGCCCATCTACAGCATCTTAGGGGAAACGTGAATGGTACATTCATCATCCACC
 CAGACTCGGGCAACCTCACCGTGGCCAGGAGTGTCCAGCCCATGACCTTCTTCTGCTGGTGAAGGG
 CCAACAGGCCGACCTTGGCCGCTACTCAGTGACCCAGGTACCGTGGAGGCTGTGGCTGCCGCCGGGAGC
 CCGCCCGCTTCCCCAGAGACTGTATCGTGGCACCGTGGCGCTGGCGCTGGAGCGGGCTTGTGGTCA
 AGGATGCAGCTGCCCTTCTCAGCCTTGAGGATCCAGGCTCAGGACCCGAGTTCGCGACCTCAACT
 GGCCATCACATATCGAATTACCAACCACTCACACTTCCGGATGGAGGGAGAGTTGTGCTGACCACCACC
 ACACTGGCACAGGCGGGAGCCTTCTACGAGAGGTTGAGGCCACAACACGGTGACCTCTGGCACCGCAA
 CCACAGTCATTGAGATACAAGTTTCCGAACAGGAGCCCCCTCCACAGGTGGCGGCCCTCGGAGGACAA
 GCGCTTCTCGGTGGTGGATATGGCGGCCCTGGCGGGGTGCTGGTGCGCTGCTGCTGGCTCTCCTT
 GGCCTCGCGTCTTGTCCACAAGCACTATGGCCCCGGCTCAAGTGTGCTCTGGCAAAGCTCCGGAGC
 CCCAGCCCAAGGCTTTGACAACCAGGCGTTCTCCCTGACCACAAGGCCAACTGGGCGCCCGTCCCGAG
 CCCCACGCACGCCCAAGCCCGCGGAGGCACCGATGCCCGCAGAGCCCGCACCCCGGCCCTGCCTCC
 CCAGGCGGTGCCCTGAGCCCCCGCAGCGGCCGAGCTGGCGGAAGCCACGCGGCTGAGGTCCATCC
 TGACCAAGGAGCGCGCGGAGGGCGGGTACAAGGCTGTCTGGTTTGGCGAGGACATCGGGACGGAGGC
 AGACGTGGTCTTCTAACCGGCCACCCTGGACGTGGATGGCGCCAGTACTCCGGCAGCGCGGATGAG
 GGCGAGGGCGCGGGAGGGGTGGGGTCCCTACGATGCGCCCGTGGTGTGACTCCTACATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206397 representing NM_031264
 Red=Cloning site Green=Tags(s)

MGSWALLWPLLFTGLLVRPPGTMAQAQYCSVNKDI FEVEENTNVTEPLVDIHVPEGQEVTLGALSTPFA
 FRIQGNQLFLNVTPDYEEKSLLEAQLLCQSGGLVTLQRLVFSVLDVNDNAPEFPFKTKEIRVEEDTKVN
 STVIPETQLQAEDRKDDILFYTLQEMTAGASDYFSLVSVNRPALRLDRPLDFYERPNTFWLLVRDTPG
 ENVESHTATATLVLNVVPADLRPPWFLPCTFSDGYVCIQAQYHGAVPTGHILPSPLVLRPGPIYAEDGD
 RGINQPIIYSIFRGNVNGTFIIHPDSGNLTVARSVPSPMTFLLL VKGQQADLARYSVTQVTVEAVAAAGS
 PPRFPQRLYRGTVARGAGVVKDAAAPSQPLRIQAQDPEFSDLNSAITYRITNHSFRMEGEVLT
 TLAQAGAFYAEVEAHNTVTSGTATTVIEIQVSEQEPPSTGGGSPEDKRF SVVDMALGGVLGALLLLALL
 GLAVLVHKHYGPRLKCCSGKAPEPQPQGFNDQAF LPDHKNWAPVSPTHDPKPAEAPMPAEPAPPGPAS
 PGGAPEPPAAARAGGSPTAVRSILT KERRPEGGYKAVWFGEDIGTEADVVLNAPLTDVDGASDSGSGDE
 GEGAGRGGGYPDAPGGDDSYI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_031264

ORF Size: 1953 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_031264.3](#), [NP_112554.2](#)

RefSeq Size: 2837 bp

RefSeq ORF: 1956 bp

Locus ID: 53841

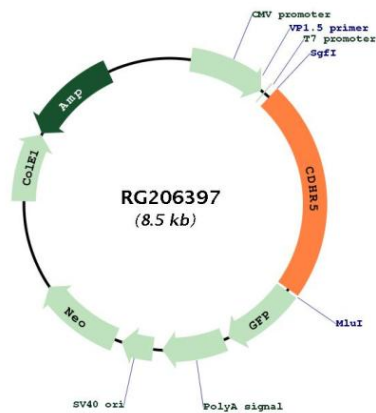
UniProt ID: [Q9HBB8](#)

Cytogenetics: 11p15.5

Protein Families: Transmembrane

Gene Summary: This gene is a novel mucin-like gene that is a member of the cadherin superfamily. While encoding nonpolymorphic tandem repeats rich in proline, serine and threonine similar to mucin proteins, the gene also contains sequence encoding calcium-binding motifs found in all cadherins. The role of the hybrid extracellular region and the specific function of this protein have not yet been determined. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG206397