

Product datasheet for **RR212392**

Cdh13 (NM_138889) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh13 (NM_138889) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh13
Synonyms:	Cdht; T-cadherin; Tcad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212392 representing NM_138889
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCCGAGAACTCCGCTCACCTGTGCGTCTGCTGTCCCAGGTGCTCCTGGTAACATCTCGAGGTG
 ATTTGGACTGCACCCCGGATTCCAGCAGAAAGTGCTACACATCCACCAGCCTGCCGAATTCATCGAGGA
 CCAGCCGGTCTAAACTTGACCTTCAGTACTGCAAGGGCAACAAGAAGCTGCACTATGAGGTCTCAAGC
 CCATACTTCAAGGTGAACAGCGATGGCACCTTAGTGGCTGTGAGAAACATCACTGCGGTGGGAGGACCC
 TGTGTGCCAGCAAGGACTCCTCATGCCGAAGACATGGCAGAACTCGTGATTGTCGGGGGAAAGACAT
 CCAGGGCTCCTTACAGGACATTTTTAAATTTGCAAGGACATCTCCTGTCCCAAGACAAAAGAGGTCCATT
 GTGGTGTCCCCATCTTGATCCCAGAGAACCAGAGACAGCCCTCCCCAGAGATGTTGGCAAGTCTGTTG
 ATAGTGACAGACCCGAAGGTCCAAGTTCGGCTCACGGGAAGGGAGTGGATCAAGACCCTAAAGGGAC
 TTTCAGAATCAATGAGAACACGGGAAGCGTCTCCGTGACACGGACCCTGGACAGAAAACGATCGCTACT
 TATCAACTGTTTTGTGGAGACCACAGATGCCAGTGGCAGAACTCTGGAGGGACCAGTGCCTCTGGAAGTCA
 TCGTGATTGATCAGAATGACAACCGACCATCTCCGGGAAGGCCCTTACATCGGCCATGTCATGGAAGG
 GTCACCCACAGGGACCACGGTATGCGGATGACAGCGTTTGTGTCAGATGACCCGGCCACTGACAACGCT
 CTCCTGCGGTACAACATCCGTCAGCAGACGCTGACAAGCCGCTCTCTAACATGTTCTACATCGATCCCG
 AGAAAGGAGACATTGTACCCGTGGTGTACCTGCGCTGCTGGACCCGGGAGACTCTGGAAAACCCCAAGTA
 TGAAGTATCATCGAAGTCAAGATATGGCAGGACTGGACGTTGGATTGACAGGCACGGCCACAGCCACC
 ATTTGTGATCGATGACAAAAATGATCACTCACAAAATTCACCAAGAAAGAGTTTCAAGCCACAGTGGAGG
 AGGGAGCCGTGGGAGTCATTGTCAACTTGACAGTGGAAAGACAAAGATGACCCCGGACAGGAGCATGGAG
 GCGGCATACACCATCATCAATGGAAATCCTGGGCAGAGCTTTGAGATCCACCAACCCACAGACCAAC
 GAGGGCATGCTCTGTGGTCAAGCCCCTGGACTATGAGATCTCTGCCTTTCACACCCTGCTGATCAAAG
 TGGAGAATGAGGACCCATTGGTACCCGACGCTCTCTATGGCCCCAGCTCCACGGCCACTGTCCACATCAC
 GGTCTTGGATGTCAACGAGGGACCAGTCTTCTACCCAGACCCCATGATGGTGACCAACAGGAAAAATATC
 TCTGTGGCAGTGTGCTGCTGACAGTGAATGCCACAGACCCGGACTCCCTGCAACATCAAATATCAGGT
 ACTCTGTTTACAAGGACCAGCGGGCTGGCTGAGTATTAACCCCATCAATGGCACTGTGACACCACAGC
 TGTGTTGGACCGGAGTCTCCATTCTGTCACAACAGTGTGTACTGCCCCTTCTCTGGCCATCGACAGC
 GGCAACCTCCTGCGACTGGCACCGGGACTCTGATGATCACCTGGAGGACGTTAACGACAACGCTCCTG
 TCATTTACCCAACGGTGGCTGAAGTCTGCGACGACGCCAGAAACCTCAGGTTGGTATCCTGGGGGCTTC
 AGACAAGGACCTTCAACCAACACAGACCCCTCAAGTTCGAGATTATAAACAGACCGTCCCTGATAAA
 GTCTGGAAGATCTCAAAAATCAACAACCCACGCCCTCGTGAGCCTTCTTACAGAACTGAAACAAGGCGA
 ACTACAACCTGCCATCATGGTGACGGATTGAGGGAAGCCACCCATGACGAACATCACGGACCTCAGGGT
 GCAGGTGTGCTCTTGAAGAAGTCCAAGTGGACTGCAATGCGGCGGGGACCCCTGCACCTCAGCCTCAGC
 TTGCTGCTGCTCTTCTCTCTCCTCAGCTTATTGTCAAGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212392 representing NM_138889
 Red=Cloning site Green=Tags(s)

MQPRTPLTLCVLLSQVLLVTSAGDL DCTPGFQQKVLHIHQPAEFIEDQPVLNLTFS DCKGNKKLHYEVSS
 PYFKVNSDGLVAVRNITAVGRTL FVHARTPHAEDMAELVIVGGKDIQGS LQDIFKFARTSPVPRQKRSI
 VVSPILIPENRQPFPRDVGKVVDSDRPEGSKFRLTGKVDQDPKGTFRINENTGSVSVTRTLDRETIAT
 YQLFVETTDASGRTLEGPVPLEVIVIDQNDNRPIFREGPYIGHVMEGSP TGTTVMRMTAFDADDDPATDNA
 LLRYNIRQQTPDKPSNMFYIDPEKGDIVTVVSPALLDRETLENPKYELI IEAQDMAGLDVGLTGTATAT
 IVIDDKNDHSPKFTKKEFQATVEEGAVGVIVNLTVEDKDDPATGAWRAAYTI INGNPGQSFEIHTNPQTN
 EGMLSVVKPLDYEISAFHTLLIKVENEDPLVPDVSYGPSSTATVHITVLDVNEGPVFPDPMVMVKQENI
 SVGSVLLTVNATDPDSLQHQ TIRYSVYKDPAGWLSINPINGTVDTTAVLDRESPFVHNSVYALFLAIDS
 GNPPATGTGLMITLEDVNDNAPVIYPTVAEVCDDARNLSVVILGASDKDLHPNTDPFKFEIHKQTPVDPK
 VWKISKINNTHALVSL LQNLNKANYNLPIMVTDSGKPPMTNITDLRVQVCCKNSKVDCNAAGTLHL SLS
 LLLLFSLLSLLSGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_138889

ORF Size: 2142 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_138889.2](#), [NP_620244.1](#)

RefSeq Size: 3403 bp

RefSeq ORF: 2145 bp

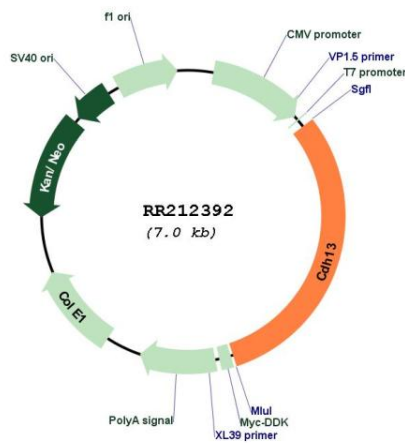
Locus ID: 192248

Cytogenetics: 19q12

MW: 78.1 kDa

Gene Summary: cell adhesion molecule; involved in cell growth regulation [RGD, Feb 2006]

Product images:



Circular map for RR212392