

Product datasheet for **MR215926**

Cdh4 (NM_009867) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh4 (NM_009867) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh4
Synonyms:	AW120700; R-Ca; R-CAD; R-Cadh; Rc; Rcad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215926 representing NM_009867
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCACAGGCTCTGTGCTGCCGCTGCTGCTGCTCGGGCTCTCGGGCGCGCTCCGGGCCACCGTGAGG
 ATCTTACAGTCAGAGAGGCTGTAAAGCTGGCTTCTCCGAAGAAGGCTACACTGCGTTGATCTCCCGAA
 TGTCTGGAAGGAGAGAACTACTCAAAGTCGAGTTCAGCAGCTGCGTGGGCACCAAAGGTATGCAGTAT
 GAGACCAACAGCTTGGACTTCAAAGTCGGGGCGGATGGGACAGTCTTCGCCACTAGGGAGTTGAAGATCC
 CCTCAGAGCAGGTGGCCTTACCCTGCTGCGCGGGAACGCCAGAGTGTGAGCAATGGGCTGCTATGGT
 GCGGCTGCTGGTAGCCAGACATCGTCAGCACACTCTGAACACAAGAAAGGGCAGACAGTGGCCCTAGAC
 CCCTCTCAGCCGCAAAATGACACACTGTGCCATGGCCTCAACATCAGAGCTCTGGTGGGCTGAGGAGAC
 AGAAGCGTGACTGGGTATCCCACCCATCAACGTTCCCGAGAACTCCCGTGGACCCTTCCCTCAGCAGCT
 TGTGAGGATCAGGTCGGACAAAGACAATGACATCCCCATCCGCTACAGCATCACGGGTGTGGGCGCCGAC
 CAGCCCCCATGGAGGTCTTCAACATCGACTCTATGTCTGGCCGGATGTATGTCACTCGGCCATGGACC
 GGGAGGAAAGAGCCTCTTACCATCTCCGAGCCACGCGGTGGATATGAACGGTAACAAGGTGGAGATCC
 TATTGACCTGTACATCTACGTCATTGACATGAACGACAACCGTCCCGAGTTCATCAACAGGTCTACAAC
 GGCTCTGTGGATGAGGGCTCCAAGCCAGGTACATATGTGATGACCGTCACAGCCAACGATGCAGATGATA
 GCACCACAGCCAATGGCATGGTGGAGGTACAGAATTGTACCCAGACACCCAGAGCCCATCCCAGAATAT
 GTTACCATCAACAGTGAACAGGGGACATCGTGACCGTGGCAGCAGGCTGGACAGAGAGAAAGTCCAG
 CAGTACACCGTCTCGTCCAGGCCACTGACATGGAAGGAAACCTTAATTATGGTCTCTCGAACACAGCCA
 CTGCCATCATCAGGTGACAGAGTAAATGACAACCCCTCCGGAATTCACCACAAGCACATTTGCAAGGAGA
 GGTTCTGAGAACCCTATAGAGACAGTAGTAGCCAACCTCACGGTGTGACCGAGACCAGCCCCACTCA
 CCAACTGGAACGCCGTCTACCGAATCATAAGTGGGGACCCCTCTGGGCACTTCAGTGTCCGCACAGACC
 CCGTGACCAATGAGGGCATGGTCAACCGTGGTGAAGGCAGTGGACTATGAGCTGAACCGTGCCTTCATGCT
 GACCGTAAATGGTGTCCAACCAGGCGCCCTGGCCAGTGGGATCCAGATGTCTTCCAGTCCACAGCAGGG
 GTAACCATCTCTGTACCGATGTCAACGAGGCCCTACTTCCCTCCAACCACAACTGATCCGCCTGG
 AAGAGGGTGTGCCGCTGGGACAGCACTACCCTTTTTCTGCAAGTGGACCCTGACCGGTTTCATGCAGCA
 AGCCGTGAGGTAAGTCTCAAAGTGTCTGATCCCGCAACTGGCTGCACATCAACACATCCAATGGGCAGATC
 ACCACAGCCGCCATTCTGGACCGAGAGTCCCTCTACACCAAGAACAATGTATATGAGGCCACCTTCTGG
 CTGCTGACAATGGGATCCCCCAGCCAGTGGCACTGGGACCCTGCAGATCTACCTCATTGATATCAATGA
 CAACGCACCACAGCTGCTACCAAGGAGGCACAGATCTGCGAGAGGCCCGGCTCAATGCCATCAACATC
 ACTGCAGCCGACGCCGATATGGACCCCAACATTGGCCCTATGTCTTTGAGTTGCCCTTCATCCCCACTA
 CAGTGAGGAAGAATTGGACCATCACCCGCTAAATGGTGAATAAGCCAGCTCAGTCTGAGAATCCTGTA
 TCTGGAAGCAGGGGTGTATGACGTCCCCATCATCGTCACAGACTTGGCAACCCCTCCCTGTCCAATACA
 TCTGTCTAAAAGGTCAAGGTGTGCCATGTGATGAGAACGGCGACTGTACCACGGTCGGCGCAGTGGCTG
 CAGCTGGCCTGGGACGGGCGCCATCGTGGCGATCCTCATCTGCATCGTATCCTGCTAATCATGGTTCT
 GCTGTTTCGTTGTGTGGATGAAGCGGAGAGAAAAGGAGAGGCACACAAGCAGCTGCTCATCGACCCTGAG
 GATGACGTGAGGGACAACATCCTGAAGTACGATGAAGAGGGCGGTGGCGAGGAGGACCAAGACTACGACC
 TCAGCCAGCTGCAACAGCCAGAAGCCATGGAGCATGTGCTGAGCAAAACTCCTGGTGTGGCGGGTGGGA
 TGAACGGCCAGTAGGTGCTGAACCCAGTACCCAGTACGGCCTGTGGTGGCACACCCAGGAGACATTGGA
 GACTTCATTAATGAGGGACTCCGAGCTGCTGACAAATGACCCACCCGACCCCTACGACTCCCTGCTAG
 TCTTCGACTATGAAGGCAGCGTTCTACTGCGGGCTCTGTGAGTCCCTAAACTCCTCCAGCTCCGGGGA
 TCAAGATTACGACTACTTAAATGACTGGGGCCCCGGTTCAAGAAGCTGGCGGACATGTATGGGGTGGC
 GAGGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >MR215926 representing NM_009867
 Red=Cloning site Green=Tags(s)

MTTGSVLP L L L L L G L S G A L R A H R E D L T V R E A C K A G F S E E G Y T A L I S P N V L E G E K L L K V E F S S C V G T K G M Q Y
 E T N S L D F K V G A D G T V F A T R E L K I P S E Q V A F T V T A R E R Q S A E Q W A A M V R L L V A Q T S S A H S E H K K G Q T V A L D
 P S Q P P N D T L L P W P Q H Q S S G L R R Q K R D W V I P P I N V P E N S R G P F P Q Q L V R I R S D K D N D I P I R Y S I T G V G A D
 Q P P M E V F N I D S M S G R M Y V T R P M D R E E R A S Y H L R A H A V D M N G N K V E N P I D L Y I Y V I D M N D N R P E F I N Q V Y N
 G S V D E G S K P G T Y V M T V T A N D A D D S T T A N G M V R Y R I V T Q T P Q S P S Q N M F T I N S E T G D I V T V A A G L D R E K V Q
 Q Y T V I V Q A T D M E G N L N Y G L S N T A T A I I T V T D V N D N P P E F T T S T F A G E V P E N R I E T V V A N L T V M D R D Q P H S
 P N W N A V Y R I I S G D P S G H F S V R T D P V T N E G M V T V V K A V D Y E L N R A F M L T V M V S N Q A P L A S G I Q M S F Q S T A G
 V T I S V T D V N E A P Y F P S N H K L I R L E E G V P A G T A L T T F S A V D P D R F M Q Q A V R Y S K L S D P A N W L H I N T S N G Q I
 T T A A I L D R E S L Y T K N N V Y E A T F L A A D N G I P P A S G T G T L Q I Y L I D I N D N A P Q L L P K E A Q I C E R P G L N A I N I
 T A A D A D M P N I G P Y V F E L P F I P T T V R K N W T I T R L N G D Y A Q L S L R I L Y L E A G V Y D V P I I V T D S G N P P L S N T
 S V I K V K V C P C D E N G D C T T V G A V A A A G L G T G A I V A I L I C I V I L L I M V L L F V V M K R R E K E R H T K Q L L I D P E
 D D V R D N I L K Y D E E G G E E D Q D Y D L S Q L Q Q P E A M E H V L S K T P G V R R V D E R P V G A E P Q Y P V R P V V P H P G D I G
 D F I N E G L R A A D N D P T A P P Y D S L L V F D Y E G S G S T A G S V S S L N S S S S G D Q D Y D Y L N D W G P R F K K L A D M Y G G G
 E E D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



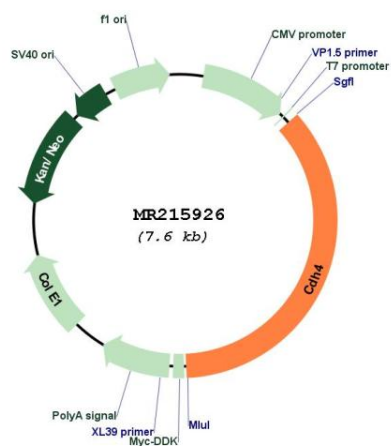
* The last codon before the Stop codon of the ORF

ACCN: NM_009867

ORF Size: 2739 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_009867.3, NP_033997.1</p>
RefSeq Size:	<p>6393 bp</p>
RefSeq ORF:	<p>2742 bp</p>
Locus ID:	<p>12561</p>
UniProt ID:	<p>P39038</p>
Cytogenetics:	<p>2 101.86 cM</p>
MW:	<p>100.5 kDa</p>
Gene Summary:	<p>This gene encodes a member of the cadherin family of calcium-dependent glycoproteins that mediate cell adhesion and regulate many morphogenetic events during development. The encoded preproprotein is further processed to generate a mature protein. The encoded protein is involved in retinal angiogenesis during development where it plays a crucial role in the endothelial-astrocyte interactions. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2015]</p>

Product images:



Circular map for MR215926