

## Product datasheet for **RC217889**

### **K Cadherin (CDH6) (NM\_004932) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	K Cadherin (CDH6) (NM_004932) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	K Cadherin
Synonyms:	CAD6; KCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC217889 representing NM\_004932  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGAACTTACCGCTACTTCTTGTCTCTTTGGTGGGCCAGCCCTACCCAACCTCTCAACTCCAC  
 TATCAAAGAGGACTAGTGGTTTCCAGCAAAGAAAAGGGCCCTGGAGCTCTCTGAAACAGCAAAAATGA  
 GCTGAACCGTTCAAAAAGGAGCTGGATGTGGAATCAGTTCTTTCTCTGGAGGAATACACAGGATCCGAT  
 TATCAGATGTGGGCAAGTTACATTCAGACCAGGATAGAGGAGATGGATCACTTAAATATATCCTTTAG  
 GAGATGGAGCAGGAGATCTTTCATTATTAATGAAAACACAGGCGACATACAGGCCACCAAGAGGCTGGA  
 CAGGGAAGAAAACCCGTTTACATCCTTCGAGCTCAAGCTATAAACAGAAAGGACAGGGAGACCCGTTGGAG  
 CCCGAGTCTGAATTCATCATCAAGATCCATGACATCAATGACAATGAACCAATATTCACCAAGGAGGTTT  
 ACACAGCCACTGTCCCTGAAATGTCTGATGTCCGTACATTTGTTGTCCAAGTCACTGCGACGGATGCAGA  
 TGATCCAACATATGGGAACAGTGCTAAAGTTGTCTACAGTATTCTACAGGGACAGCCCTATTTTTAGTT  
 GAATCAGAAAACAGGTATTATCAAGACAGCTTTGCTCAACATGGATCGAGAAAACAGGGAGCAGTACCAAG  
 TGGTGATTCAAGCCAAGGATATGGGCGGCCAGATGGGAGGATTATCTGGGACCACCACCGTGAACATCAC  
 ACTGACTGATGTCAACGACAACCCTCCCGATTCCCCAGAGTACATACCAGTTTAAAACTCCTGAATCT  
 TCTCCACCGGGGACCAATTGGCAGAAATCAAAGCCAGCGACGCTGATGTGGGAGAAAATGCTGAAATTTG  
 AGTACAGCATCACAGACGGTGAGGGGCTGGATATGTTTGTGTCATCACCAGCAGGAAACCCAGGAAGG  
 GATTATAACTGTCAAAAAGCTCTTGGACTTTGAAAAGAAGAAAGTGTATACCCTTAAAGTGAAGCCTCC  
 AATCCTTATGTTGAGCCACGATTTCTACTTGGGGCCTTTCAAAGATTCAGCCACGGTTAGAATTGTGG  
 TGGAGGATGTAGATGAGCCACCTGTCTCAGCAAACCTGGCCTACATCTTACAAAATAGAGAAGATGCTCA  
 GATAAACACCACAATAGGCTCCGTACAGCCCAAGATCCAGATGCTGCCAGGAATCCTGTCAAGTACTCT  
 GTAGATCGACACACAGATATGGACAGAATATTC AACATTGATTCTGAAAATGGTTGATTTTTACATCGA  
 AACTTCTTGACCGAGAAACACTGCTATGGCACAACATTACAGTGTAGCAACAGAGATCAATAATCCAAA  
 GCAAAGTAGTCGAGTACCTCTATATATTAAGTTCTAGATGTCAATGACAACGCCCCAGAATTTGCTGAG  
 TTCTATGAAACTTTTGTCTGTGAAAAGCAAAGGCAGATCAGTTGATTACAGCCCTGCATGCTGTTGACA  
 AGGATGACCTTATAGTGGACCAATTTTCGTTTTCTTGGCCCTGAAGCAGCCAGTGGCTCAAACCTT  
 TACCATTCAAGACAACAAAGACAACACGGCGGGAATCTTAACTCGAAAAATGGCTATAATAGACACGAG  
 ATGAGCACCTATCTCTTGCTGTGGTCATTTAGACAACGACTACCCAGTTCAAAGCAGCACTGGGACAG  
 TGAATGTCGGGTCTGTGCATGTGACCACCACGGGAACATGCAATCCTGCCATGCCGAGGCGCTCATCCA  
 CCCCACGGGACTGAGCACGGGGCTCTGTTGCCATCCTTCTGTGCATCGTGATCCTACTAGTGACAGTG  
 GTGCTGTTTGAGCTCTGAGGGCGCAGCAAAAAAGAGCCTTTGATCATTTCCAAAGAGGACATCAGAG  
 ATAACATTGTGAGTTACAACGACGAAGTGGTGGAGAGGAGGACACCCAGGCTTTTGATATCGGCACCCCT  
 GAGGAATCCTGAAGCCATAGAGGACAACAAATTACGAAGGACATTGTGCCCGAAGCCCTTTTCTACCC  
 CGACGGACTCCAACAGCTCGCGACAACACCGATGTGAGAGATTTTATTAAACCAAGGTTAAAGGAAAATG  
 ACACGGACCCACTGCCCCGCATACGACTCCTTGCCACTTACGCCTATGAAGGCACTGGCTCCGTGGC  
 GGATTCCTGAGCTCGCTGGAGTCAGTGACCACGGATGCAGATCAAGACTATGATTACCTTGTGACTGG  
 GGACCTCGATTCAAAAAGCTTGCAGATATGTATGGAGGAGTGGACAGTGACAAAGACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217889 representing NM\_004932  
Red=Cloning site Green=Tags(s)

MRTYRYFLLLFWVGQPYPTLSTPLSKRTSGFPAKKRALELSGNSKNELNRSKRSMWNQFFLLEEYTGSD  
YQYVYVGLHSDQDRGDGSLKYILSGDGAGDLFIINENTGDIQATKRLDREKPVYILRAQAINRRTGRPVE  
PESEFIIKIHDINDNEPIFTKEVYTATVPEMSDVGTFFVQVTATDADDPTYGNSAKVVVYSILQGQPYFSV  
ESETGIKITALLNMDRENREYQVVIQAKDMGGQMGGLSGTTTNNITLTDVNDNPPRFPQSTYQFKTPES  
SPPGTPIGRIKASDADVGENAEIEYSITDGEGLDMFDVITDQETQEGIIIVKLLDFEKKKVYTLKVEAS  
NPYVEPRFLYLGPFKDSATVRIVVEDVDEPPVFSKLAYILQIREDAQINTTIGSVTAQDPDAARNPVKYS  
VDRHTDMDRIFNIDSGNGSIFTSKLLDRETLWLNITVIATEINNPQSSRVPLYIKVLDVNDNAPEFAE  
FYETFVCEKAKADQLIQLHAVDKDDPYSGHQFSFLAPEAASGSNFTIQDNKDNTAGILTRKNGYNRHE  
MSTYLLPVVISDNDYPVQSSTGTVTVRVCACDHHGMMQSCHAELIHPTGLSTGALVAILLCIVILLVTV  
VLF AALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGTLRNPEAIEDNKLRDIVPEALFLP  
RRTPTARDNTDVRDFINQRLKENDTDPTAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDW  
GPRFKKLADMYGGVDSKDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8008\\_c02.zip](https://cdn.origene.com/chromatograms/mk8008_c02.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_004932

ORF Size: 2370 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\\_004932.4](#)

**RefSeq Size:** 4521 bp

**RefSeq ORF:** 2373 bp

**Locus ID:** 1004

**UniProt ID:** [P55285](#)

**Cytogenetics:** 5p13.3

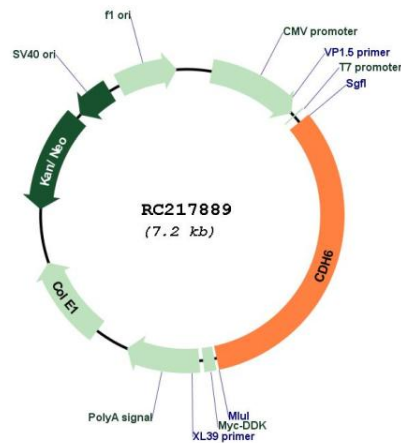
**Domains:** Cadherin\_C\_term, CA

**Protein Families:** Transmembrane

**MW:** 88.1 kDa

**Gene Summary:** This gene encodes a member of the cadherin superfamily. Cadherins are membrane glycoproteins that mediate homophilic cell-cell adhesion and play critical roles in cell differentiation and morphogenesis. The encoded protein is a type II cadherin and may play a role in kidney development as well as endometrium and placenta formation. Decreased expression of this gene may be associated with tumor growth and metastasis. [provided by RefSeq, May 2011]

### Product images:



Circular map for RC217889