

Product datasheet for **MR223335**

Cdh22 (NM_174988) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Cdh22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR223335 representing NM_174988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGCCACGGCCAGAAGGAGCGCTCCGGGCGGGGGCTGCGCTGTCGCCTGTGCTGCTGTTTCTGCTAC
 TGCTACCGCTGCTGGGGCACCTGTGGGCCCAAGCACACCTGCCCGTCTCTTTGTACCTGGGGCTCA
 GGAGGACAACAGCTGGGTGCAGGCCGAGTGAAGCGCGTTGGGTGTGGAACAGTTCTTCGTGGTGGAG
 GAGTACACGGGGACAGAACCCCTGTACGTGGGCAAGATCCACTCGGATTCTGACGAAGGGGACGGGACCA
 TCAAGTACACCATCTCGGGCGAGGGTGCAGGGACCATCTTCTGATTGACGAGTTGACAGGTGACATCCA
 TGCCACGGAGCGCCTGGACCGGGAGCAGAAAACCTTCTACACACTCCGGGCCCAAGCCAGGGATCCGAGCC
 ACCAACCGTCTGCTGGAGCCCGAGTCCGAGTTCATCATCAAAGTACAGGACATCAACGACAGTGAACCAC
 GCTTTCTCCACGGCCCTACATTGGCAGTGTGGCCGAGCTGTACCTACAGGCACGTCCGTGATGACAGT
 GATGGCCTCTGATGCAGACGACCTACTTACGGCAGCAGTGCCTGGCTGGTGTACAGTGTGCTGGACGGC
 GAGCACCATTACAGTGGACCCCAAGACAGGTGTATCCGACAGCCGTGCCTGACCTCGACCCGTGAGA
 GCCAGGAACGCTACGAGGTGGTTATTCAAGCCACAGACATGGCAGGCCAGCTGGGTGGCCTCTCAGGTTT
 CACTACAGTACCATCGTGGTTACTGACGTCAACGACAACCCACCCCGCTTCCACAAAAGATGTACCAG
 TTCAGCATACAGGAGTCAAGCCCATCGGTACGGCTGTGGGCCGCTGAAGGCCGAGGACTCAGATGTGG
 GCGAGAACACGGACATGACTTATCAGTGTGAGAGAAGAGAGCGGCAGCGGAGGAGACGCGTTCAAGGTAC
 CACGGACAGCGACACTCAGGAAGCCATCATAGTGGTGCAGAAGCACCTGGACTTTGAGTCGACGACAGGT
 CACACAGTGGTGTGGAAGCCCTCAACAAGTTTGTGGACCCCGCTTCGCCGACCTAGGCACATTCGAG
 ACCAGGCAATCGTGCCTGTGGCCGTGACCGATGTGGATGAACCCCGGAGTTCCGGCCACCTCCGGCCT
 ACTGGAGGTGCAGGAGGACGCGCAGGTGGGCTCCCTGGTCGGCGTGGTACGCGCGCGGACCCGACGCC
 GCCAACCGGCCCGTCCGGTACGCCATTGATCGGGAAGTGGGACTCGGATTTGGAGCAGATCTTTGACATCGATGCGG
 ACACTGGTGCCATCGTACTGGCAAGGGGCTGGACCGTGAACCCCGGAGTTCCGGCCACCTCCGGCCT
 GGCCATGGAAGCAGACAATCATGCTCAGCTATCTCGGGCATCCCTACGGATCCGAATCCTGGACGTGAAC
 GACAATCCCCCGGAGCTCGCTACACCCTACGAGGCAGCTGTGTGTGAAGACGCCAAGCCAGGCCAGCTCA
 TCCAAACCATCAGTGTGGTGGACAGAGACGAGCCCGGGCGGCCACCGCTTCTATTTCCGTCTGGTACC
 AGAAGCACCTAGCAACCTCATTTCTCTGCTGGACATTGAAGATAACACAGCTGCGGTGCACACGACG
 CACGTGGGCTTAACCGGCAAGAGCAGGACGTGTTCTCTGCCCATCCTCGTTGTGGACAGCGGGCCAC
 CCACCTGAGCAGCAGGGCACCTCACCATCCGCATCTGCGGCTGTGACAGCTCCGGTACCATCCAGTC
 CTGCAACACACCGCCTTTGTGATGGCTGCCTCCCTCAGCCCCGGCGCACTCATCGCTCTCTTGGTCTGT
 GTTCTCATCTGTTGTTCTTGTCTGCTGATCCTCACTCTCAGGCGGCACCAAGAGCCATCTGAGCT
 CAGAGTGGATGAAGACATGCGGGACAATGTGATCAATAACAACGACGAGGGCGGGCGGACGAGACAC
 CGAGGCCTATGACATGTACGCGCTACGGAGCCTCTACGATTTTGGGGAGCTCAAGGGTGGCGACCCGGG
 GGGGGCGGGCCAGTCCCCCGAGGCTGCTTCTCTGAGCGCCACTCGCTGCCTCGGGGGCCGTCGA
 GCCCCGAGCCGACTTCTCGGTGTTAGGGACTTCATCAGCCGCAAGGTGGCGTGGCGGACGCGGACCT
 ATCGGTGCTCCCTACGACGCTTCCAGACCTACGCGTTGAGGGCGGGGCTCGCCGGCCGCTCGCTC
 AGCTCGCTGCACAGCGGCTCGACCGGCTCGGAGCAGGACTTCGCTTTCTCCGCGCCTGGGGCCCGGCT
 TCCGACCGCTGGCCGCGCTCTACGCGGCCACCGCGGGGACGACGAGGCCCGGCTCC

AGCGGACCGACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223335 representing NM_174988

Red=Cloning site Green=Tags(s)

MRPRPEGALRAGAALSPVLLFLLLLPLLGLHLWAASTPAPSSLSPGAQEDNQLGAGRVKRGWVWNQFFVVE
EYTGTPELYVYVKIHSDEGDGTIKYISGEGAGTIFLIDELTGDHATERLDREQKTFYTLRAQARDRA
TNRLLEPESEFIKVDQINDSEPRFLHGPYIGSVAELSPTGTSMQVMSADDDPTYGSSARLVYSVLDG
EHHFTVDPKTGVIRTAVPDLRESQERYEVVIQATDMAGQLGGLSGSTTVITVDVNDNPPRFPQKMYQ
FSIQESAPIGTAVGRVKAEDSDVGENTDMTYHLREESGGDAFKVTTDSDTQEAIIVVQKHLDFESQQV
HTVVLEALNKFVDPFADLGTFRDQAIVRVAVTDVDEPPEFRPPSGLLEVQEDAQVGSLVGVVTARDPDA
ANRPVRYAIDRSDLEQIFDIDADTGAIVTGKGLDRETAGWHNITVLAMEADNHAQLSRASLRIRILDVN
DNPELATPYEAAVCEDAKPGQLIQTISVVDREDEPQGGHRYFRLVPEAPSNPHFSLLDIEDNTAAVHTQ
HVGFNREQQDVFLLPILVDSGPPTLSSTGTLTIRICGCDSSGTIQSCNTTAFVMAASLSPGALIALLC
VLILVVLALLLILTLRRHHKSHLSSDVDEMRDNVIKYNEGGGEQDTEAYDMSALRSLYDFGELKGGDPG
GGAASPPQAASSSERHSLPRGPSSPEPDFSVFRDFISRKVALADADLSVPPYDAFTYA FEGAGSPAASL
SSLHSGSTGSEQDFAFLRAWGPRFRPLAALYAGHRGDDEAPAS

SGPTRRPLEQKLISEEDLAANDILDYKDDDDKV

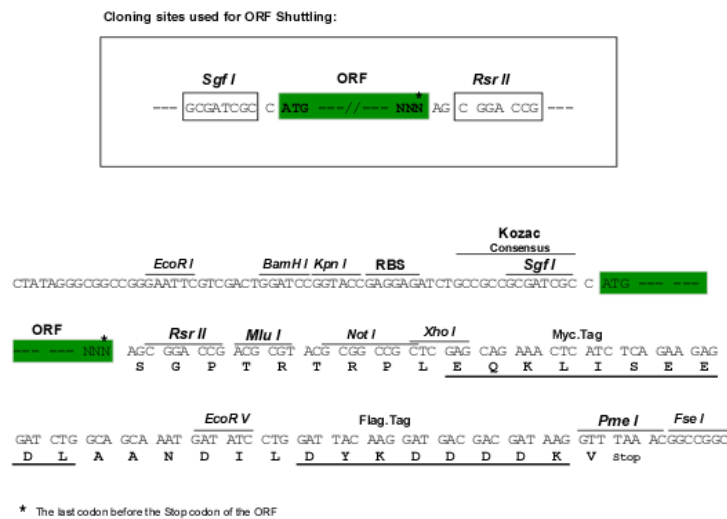
Chromatograms:

https://cdn.origene.com/chromatograms/mm9003_h06.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_174988

ORF Size:

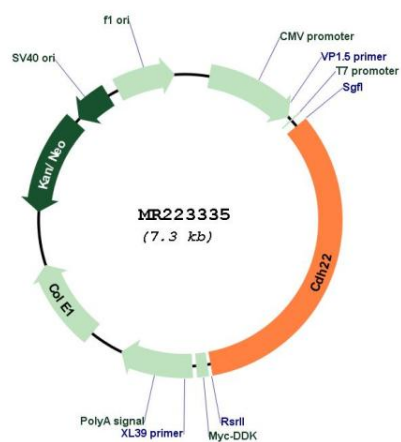
2439 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_174988.3</u> , <u>NP_778153.2</u>
RefSeq Size:	3586 bp
RefSeq ORF:	2442 bp
Locus ID:	104010
UniProt ID:	<u>Q9WTP5</u>
Cytogenetics:	2 H3
MW:	88.4 kDa
Gene Summary:	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. PB-cadherins may have a role in the morphological organization of pituitary gland and brain tissues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223335