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Product datasheet for MG222740

Cdh6 (NM_007666) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh6 (NM_007666) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdh6
Synonyms:	cad; cad6; K-cadh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG222740 representing NM_007666
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAACTTACCGGTACTTCTTGCTGCTCTTTTGGGTCGGCCAGCCCTACCCAACTTTCTCAAACCCAT
TATCTAAAAGGACTAGTGGCTTCCCAGCAAAGAGGAAAGCCCTGGAGCTCTCTGCAAACAGCAGGAATGA
GCTGAGCCGTTCGAAAAGGAGTTGGATGTGGAATCAGTTCTTCCTCCTGGAGGAATACACGGGATCCGAT
TATCAGTACGTGGGCAAGTTACATTCAGACCAGGATAGAGGAGATGGATCACTTAAATATATCCTTTCAG
GAGATGGAGCGGGCGATCTCTTCATTATCAATGAGAACACAGGCGACATACAGGCCACCAAGAGGCTGGA
CAGGGAAGAAAAACCTGTTTACATCCTTCGAGCTCAAGCTGTCAACAGAAGGACAGGGAGACCCGTCGAG
CCTGAGTCTGAATTCATCATCAAGATCCACGACATCAATGACAATGAGCCAATATTCACCAAGGACGTTT
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CGACCCAACATATGGGAACAGTGCTAAAGTCGTCTATAGCATCCTGCAGGGACAGCCCTACTTTTCAGTG
GAATCGGAAACAGGTATCATCAAGACAGCGTTGCTCAACATGGATCGAGAAAACAGAGAACAGTACCAAG
TGGTGATTCAGGCCAAGGACATGGGCGGCCAGATGGGAGGACTGTCGGGGACTACGACCGTGAACATCAC
GCTGACAGATGTCAATGACAACCCACCCCGTTTCCCCCAGAGTACCTACCAGTTTAAGACCCCCGAGTCC
TCTCCACCGGGAACGCCAATTGGCAGGATCAAAGCCAGTGATGCCGATGTGGGAGAAAATGCGGAGATCG
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AATCCCCACGTCGAACCCCGATTTCTCTACCTGGGTCCCTTCAAAGACTCGGCCACGGTGAGAATCGTGG
TGGACGATGTGGACGAACCTCCTGTCTTCAGCAAACTGGCCTACATCCTACAGATACGGGAGGATGCCCG
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TACTATACAAGACAACAAAGACAACACTGCAGGGATCCTAACTCGGAAAAATGGCTATAACAGACACGAG
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CCCCACAGGGCTGAGCACAGGGGCTCTGGTGGCCATCCTTCTGTGCATCGTGATCCTACTAGTGACAGTG
GTGCTGTTCGCAGCTCTGAGGCGGCAGCGAAAGAAAGAGCCTTTGATCATTTCCAAAGAGGACATCAGAG
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CGACTCCCTGAGCTCGCTGGAATCCGTGACCACGGATGGAGATCAAGATTATGACTATTTGAGTGACTGG
GGCCCTCGGTTCAAAAAGCTGGCAGATATGTATGGAGGGATGGACAGTGACAAAGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222740 representing NM_007666
Red=Cloning site Green=Tags(s)

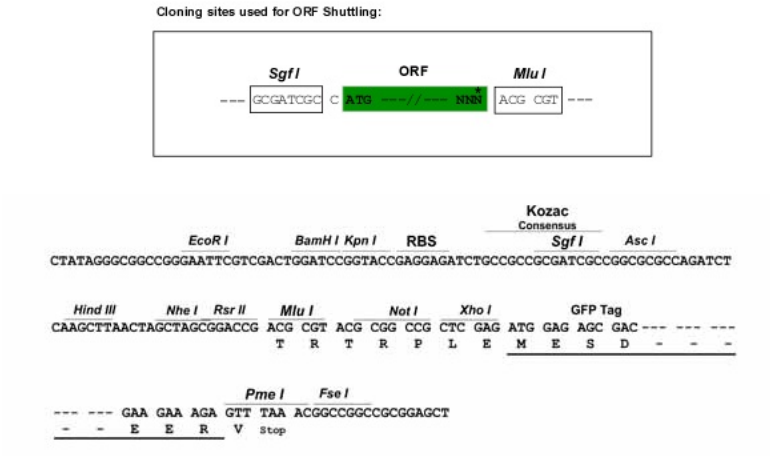
MRTYRYFLLLFWVGQPYPTFSNPLSKRTSGFPAKRKALELSANSRNELSRSKRSWMWNQFFLLEEYTGSD
YQYVGKLHSDQDRGDGSLKYILSGDGAGDLFIINENTGDIQATKRLDREEKPVYILRAQAVNRRTGRPVE
PESEFIIKIHDINDNEPIFTKDVYTATVPEMADVGTFVVQVTATDADDPTYGNSAKVVYSILQGQPYFSV
ESETGIIKTALLNMDRENREQYQVVIQAKDMGGQMGGLSGTTTVNITLTDVNDNPPRFPQSTYQFKTPES
SPPGTPIGRIKASDADVGENAEIEYSITDGEGHEMFDVITDQETQEGIITVKKLLDFEKKKVYTLKVEAS
NPHVEPRFLYLGPFKDSATVRIVVDDVDEPPVFSKLAYILQIREDARINTTIGSVAAQDPDAARNPVKYS
VDRHTDMDRIFNIDSGNGSIFTSKLLDRETLLWHNITVIATEINNPKQSSRVPLYIKVLDVNDNAPEFAE
FYETFVCEKAKADQLIQTLRAVDKDDPYSGHQFSFSLAPEAASSSNFTIQDNKDNTAGILTRKNGYNRHE
MSTYLLPVVISDNDYPVQSSTGTVTVRVCACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTV
VLFAALRRQRKKEPLIISKEDIRDNIVSYNDEGGGEEDTQAFDIGTLRNPEAMEDSKSRRDIVPEALFLP
RRTPTARDNTDVRDFINQRLKENDTDPTAPPYDSLATYAYEGTGSVADSLSSLESVTTDGDQDYDYLSDW
GPRFKKLADMYGGMDSDKDS

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1480_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

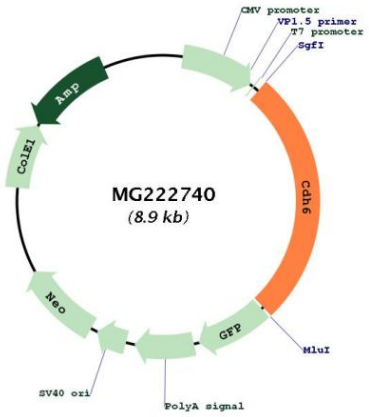


ACCN: NM_007666

ORF Size: 2370 bp

OTI Disclaimer:	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. 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_007666.4
RefSeq Size:	2632 bp
RefSeq ORF:	2373 bp
Locus ID:	12563
UniProt ID:	P97326
Cytogenetics:	15 A1
Gene Summary:	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. Mice lacking the encoded protein exhibit delay in mesenchyme-to-epithelial conversion and a loss of nephrons. Multiple distinct genes of the cadherin family, including this gene, are found on chromosome 15. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MG222740