

Product datasheet for MR223032

Pcdh12 (NM_017378) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdh12 (NM_017378) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdh12
Synonyms:	Pcdh14; VE-cad-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223032 representing NM_017378 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTACTTCTGCCATTCTGCTAGGGCTCTTAGGGCCAGGAAGCTACTTGTTCAATTCAGGGGATT
GTCAGGAGGTGGCCACTGTCATGGTAAATCCAAGTGACAGAGGAAGTGCCGCTGGCACGGTGATAGG
GAAACTGTCCCAAGAAGTAAAGAGTGGAGGAGAGGCGTGGGAAGGCAGGAGATGCCTTCCAGATTCTGCAG
CTGCCTCAGGCACTGCCGGTTCAGATGAACTCTGAGGACGGCCTGCTCAGCACTCCAGCCGGCTGGATC
GGGAGAAGCTATGTCGGCAGGAAGATCCCTGTCTGGTGTCAATTTGACGTGCTTCCACAGGGCGTCTGC
TCTAATTCATGTGGAGATTCAGGTGCTAGACATCAATGACCACAGCCACAGTTTCCCAAAGACGAGCAG
GAACTGGAAATCTCAGAGAGTGCCTCTCTGCACACACGAATCCCCTTGGCAGAGCTCTTGACCAAGACA
CGGGTCCCTAACAGCTTATATTCCTACTCCCTGTCTCCAGTGAACACTTTGCCCTGGATGTTATTGTGGG
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TCCTGGACTCCAATGACAATAGTCCAGTGTGGTGTGAGAGTTCAGTACTAGCAATCCAGAGACAC
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AGTAATGGAAAAGTGTACATACCGTATCAAGGACTCCCCGTTTCTCACTTAGTCATTATTGACTTTGAAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223032 representing NM_017378
 Red=Cloning site Green=Tags(s)

MMLLLPFLGLLPGPSYLFISGDCQEVATVMVKFQVTEEVPSGTVIGKLSQELRVEERRGKAGDAFQILQ
 LPQALPVQMNSDGLLSTSSRLDREKLCRQEDPCLVSFDVLTGASALIHVEIQVLDINDHQPFQPKDEQ
 ELEISESASLHTRIPLDRALDQDTGPNLSYSLSPEHFALDIVGPDETKHAELVVVKELDRELHSYF
 DLVLTAYDNGNPPKSGISVVKVNVLDSDNSPVFAESSLALEIPEDTVPGLLLINLTATDPDQGPNGEVE
 FFFGKHVSPVMNTFGIDAKTGQIILRQALDYEKNPAYEVDVQARDLGNPSIPGHCKVLIKVLDVNDNAP
 SILITWASQTSLVSEDLPRDSFIALVSANDLDSGNNGLVHCWLNQELGHFRLKRTNGNTYMLLTNATLDR
 EQWPIYTLTVFAQDQGPQLSAEKELQIQVSDVNDNAPVFEKSRYEVSTWENPPSLHLITLKAHADLGD
 SNGKVSYRIKDSPVSHLVIDFETGEVTAQRSLDYEQMGFFQVIAEDRGQPQLASSISVWVSLLDAND
 NAPEVIQPVLSGKATLSVLVNASTGHLLLPIENPSGMDPAGTGIPPKATHSPWSFLLLITIVARDADSGA
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 KLSPDPAWMARLSLPLTTNYRDNLSSPDATTSEEPRTFQTFGKTVGPGPELSPTGTRLASTFVSESSSL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9001_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

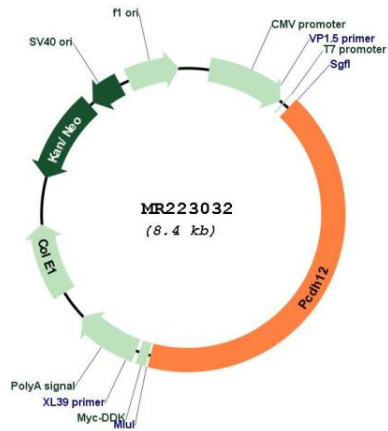


ACCN: NM_017378

ORF Size: 3540 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:	<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:	NM_017378.2 , NP_059074.2
RefSeq Size:	5587 bp
RefSeq ORF:	3543 bp
Locus ID:	53601
UniProt ID:	O55134
Cytogenetics:	18 B3
MW:	129.1 kDa
Gene Summary:	Cellular adhesion molecule that may play an important role in cell-cell interactions at interendothelial junctions (PubMed:9651350). Acts as a regulator of cell migration, probably via increasing cell-cell adhesion (By similarity). Promotes homotypic calcium-dependent aggregation and adhesion and clusters at intercellular junctions (PubMed:9651350). Unable to bind to catenins, weakly associates with the cytoskeleton (PubMed:9651350). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223032