

Product datasheet for **RC234172**

Peptidase inhibitor 16 (PI16) (NM_001199159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peptidase inhibitor 16 (PI16) (NM_001199159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Peptidase inhibitor 16
Synonyms:	CD364; CRISP9; MSMBBP; PSPBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234172 representing NM_001199159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGGCTCCTGCAGTTTCTGATGCTTCTGCTGCCGCTACTGCTACTGCTGGTGGCCACCACAGGCC
 CGTTGGAGCCCTCACAGATGAGGAGAAACGTTTGGTGGAGCTGCACAACTCTACCGGCCAGGT
 ATCCCCGCCGCCCTCAGACATGCTGCACATGAGATGGGACGAGGAGCTGGCCGCCTTCGCCAAGGCCTAC
 GCACGGCAGTGCCTGTGGGGCCACAACAAGGAGCGGGCGCCGCGGAGAAATCTGTTCCGCATCACAG
 ACGAGGGCATGGACGTGCCGCTGGCCATGGAGGAGTGGCACCACGAGCGTGAACCTCAGCGC
 CGCCACCTGCAGCCAGGCCAGATGTCCGGCCACTACACGAGGTGGTATGGCCAAGACAGAGAGGATC
 GGCTGTGGTTCCCACTTCTGTGAGAAGCTCCAGGGTGTGAGGAGACCAACATCGAATTACTGGTGTGCA
 ACTATGAGCCTCCGGGAACGTGAAGGGAAACGGCCCTACCAGGAGGGGACTCCGTGCTCCAATGTCC
 CTCTGGTACCCTGCAAGAAGCTCCCTCTGTGAACCCATCGGAAGCCGGAAGATGCTCAGGATTTGCCT
 TACCTGGTAACTAGGCCCATCCTTCCGGGCGACTGAAGCATCAGACTTAGGAAAATGGTACTCCTT
 CTTCCCTAGCAACGGGGATTCCGGCTTTCTTGGTAACAGAGGTCTCAGGCTCCCTGGCAACCAAGGCTCT
 GCCTGCTGTGAAACCCAGGCCCAACTTCTTAGCAACGAAAGACCCGCCCTCCATGGCAACAGAGGCT
 CCACCTTGCCTAACAACTGAGGTCCCTTCCATTTGGCAGCTCACAGCCTGCCCTCCTGGATGAGGAGC
 CAGTTACCTTCCCAAAATCGACCATGTTCTATCCCAAAATCAGCAGACAAAGTGACAGACAAAACAAA
 AGTGCCCTCTAGGAGCCAGAGAACTCTCTGGACCCCAAGATGTCCCTGACAGGGGCAAGGGAGCTCCTA
 CCCCAGCCAGGAGGAGGCTGAGGCTGAGGCTGAGTTGCCTCCTCCAGTGAGGTCTTGGCCTCAGTTT
 TTCCAGCCAGGACAAGCCAGGTGAGCTGACGGCCACACTGGACCACAGGGGACACCTCCTCCAAGTC
 CCTCCCAATTTCCCAATACTCTGCCACCGCTAATGCCACGGGTGGGGGTGCCCTGGCTCTGCAGTCG
 TCCTTGCCAGGTGCAGAGGGCCCTGACAAGCCTAGCGTGTGTCAGGGCTGAACTCGGGCCCTGGTCATG
 TGTGGGCCCTCTCTGGGACTACTGCTCCTGCCTCCTCTGGTGTGGCTGGAATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234172 representing NM_001199159
 Red=Cloning site Green=Tags(s)

MHGSCSFLMLLLPLLLLVAATTGPV GAL TDEEKRLMVELHNL YRAQVSP PASDMLHMRWDEELAAFAKAY
 ARQCVWGHNKERRRGENLFAITDEGMDVPLAMEEWHHEREHYNL SAATCSPGQMC GHYTVVWAKTERI
 GCGSHFCEK LQVVEETNIELLVCNYEPPGNVKGKRPYQEGTPCSQCPSGYHCKNSLCEPIGSPEDAQDLP
 YLVTEAPSFRA TEASDRKMGTPSSLATGIPAFVLVTEVSGSLATKALPAVETQAPTSLATKDPPSMATEA
 PPCVTTEVPSILAAHSLPSLDEEPVTFPKSTHVP IPKSADKVTDKTKVPSRSPENSLDPKMSLTGARELL
 PHAQEEAEAEAE LPPSSEVLASVFPAQDKPGELQATLDHTGHTSSKSLPNFPNTSATANATGGRALALQS
 SLPGAEGPDKPSVVSGLNSGPGHVWGPLLGLLLL PPLVLAGIF

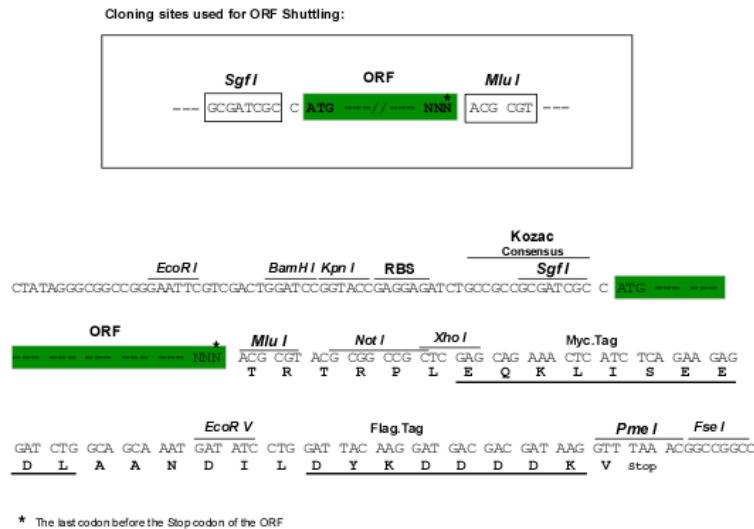
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6335_e01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001199159

ORF Size: 1389 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_001199159.1](#), [NP_001186088.1](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1392 bp

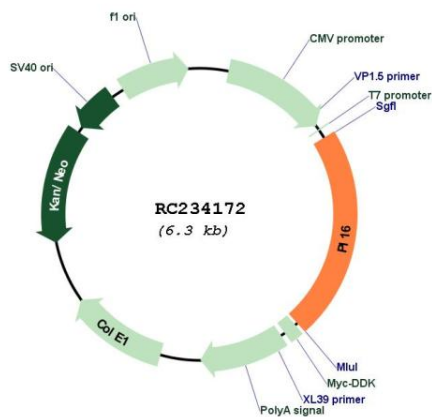
Locus ID: 221476

UniProt ID: [Q6UXB8](#)

Cytogenetics: 6p21.2

Protein Families: Transmembrane
 MW: 49.5 kDa
 Gene Summary: May inhibit cardiomyocyte growth.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC234172