

Product datasheet for **RG234172**

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:	TurboGFP
Symbol:	PI16
Synonyms:	CD364; CRISP9; MSMBBP; PSPBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234172 representing NM_001199159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGGCTCCTGCAGTTTCTGATGCTTCTGCTGCCGCTACTGCTACTGCTGGTGGCCACCACAGGCC
 CCGTTGGAGCCCTCACAGATGAGGAGAAAACGTTTGGATGGTGGAGCTGCACAACTCTACCGGCCAGGT
 ATCCCCGACGGCCTCAGACATGCTGCACATGAGATGGGACGAGGAGCTGGCCGCCTTCGCCAAGGCCTAC
 GCACGGCAGTGCCTGTGGGGCCACAACAAGGAGCGGGCGCCGCGGCGAGAATCTGTTCCGCATCACAG
 ACGAGGGCATGGACGTGCCGCTGGCCATGGAGGAGTGGCACCACGAGCGTGAAGCACTACAACCTCAGCGC
 CGCCACCTGCAGCCAGGCCAGATGTGCGGCCACTACACGCAGGTGGTATGGCCAAGACAGAGAGGATC
 GGCTGTGGTTCCCACTTCTGTGAGAAGCTCCAGGGTGTGAGGAGACCAACATCGAATTACTGGTGTGCA
 ACTATGAGCCTCCGGGAACGTGAAGGGAAAACGGCCCTACCAGGAGGGGACTCCGTGCTCCAATGTCC
 CTCTGGTACCCTGCAAGAAGCTCCCTCTGTGAACCCATCGGAAGCCCGAAGATGCTCAGGATTTGCCT
 TACCTGGTAACTGAGGCCCATCCTTCCGGGCGACTGAAGCATCAGACTTAGGAAAATGGGTACTCCTT
 CTTCCCTAGCAACGGGGATTCCGGCTTTCTTGGTAACAGAGGTCTCAGGCTCCCTGGCAACCAAGGCTCT
 GCCTGCTGTGAAACCCAGGCCCAACTTCTTAGCAACGAAAGACCCGCCCTCCATGGCAACAGAGGCT
 CCACCTTGCCTAACAACTGAGGTCCCTTCCATTTGGCAGCTCACAGCCTGCCCTCCTGGATGAGGAGC
 CAGTTACCTTCCCAAAATCGACCATGTTCTATCCCAAAATCAGCAGACAAAGTGACAGACAAAACAAA
 AGTGCCCTTAGGAGCCAGAGAACTCTCTGGACCCCAAGATGTCCCTGACAGGGGCAAGGGAACCTCTA
 CCCCATGCCAGGAGGAGGCTGAGGCTGAGGCTGAGTTGCCTCCTCCAGTGAGGTCTTGGCCTCAGTTT
 TTCCAGCCCAGGACAAGCCAGGTGAGCTGACGGCCACACTGGACCACAGGGGACACCTCCTCCAAGTC
 CCTGCCCAATTTCCCAATACCTCTGCCACCGTAATGCCACGGGTGGGGTGGCCCTGGCTCTGCAGTCG
 TCTTGGCAGGTGCAGAGGGCCCTGACAAGCCTAGCGTGTGTCAGGGCTGAACTCGGGCCCTGGTCATG
 TGTGGGGCCCTCTCTGGGACTACTGCTCCTGCCTCCTCTGGTGTGGCTGGAATCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234172 representing NM_001199159
 Red=Cloning site Green=Tags(s)

MHGSCSFLMLLLPLLLLVAATTGPVGLTDEEKRLMVELHNLRYAQQVPTASDMLHMRWDEELAAFAKAY
 ARQCVWGHNKERRRGENLFAITDEGMDVPLAMEEWHHEREHYNLAAATCSPGQMCGHYTQVWAKTERI
 GCGSHFCEKLQGVETNIELLVCNYEPPGNVKGKRPYQEGTPCSQCPSGYHCKNSLCEPIGSPEDAQDLP
 YLVTEAPSFRAEASDRKMGTPSSLATGIPAFVTEVSGSLATKALPAVETQAPTSLATKDPSPMATEA
 PPCVTTVEVPSILAAHSLPSLDEEPVTFPKSTHVPKIPKADKVTDKTKVPSRSPENSLDPKMSLTGARELL
 PHAQEEAEAEAEELPPSSEVLASVFPAQDKPGELQATLDHTGHTSSKSLPNFPNTSATANATGGRALALQS
 SLPGAEGPDKPSVVVSGLNSGPGHVWGPLLGLLLLPLVLAGIF

TRTRPLE – GFP Tag – V

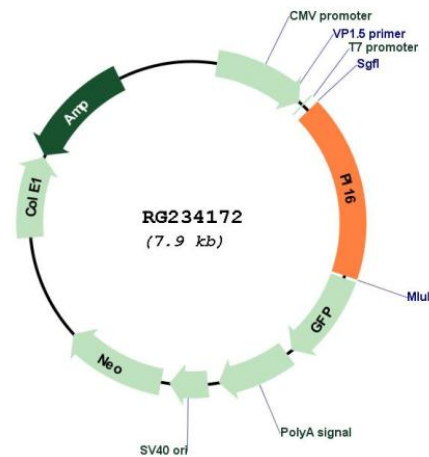
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<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:	<u>NM_001199159.1</u> , <u>NP_001186088.1</u>
RefSeq Size:	2100 bp
RefSeq ORF:	1392 bp
Locus ID:	221476
UniProt ID:	<u>Q6UXB8</u>
Cytogenetics:	6p21.2
Protein Families:	Transmembrane
Gene Summary:	May inhibit cardiomyocyte growth.[UniProtKB/Swiss-Prot Function]