

Product datasheet for **RG207631**

Peptidase inhibitor 16 (PI16) (NM_153370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peptidase inhibitor 16 (PI16) (NM_153370) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Peptidase inhibitor 16
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:

>RG207631 representing NM_153370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGGCTCCTGCAGTTTCTGATGCTTCTGCTGCCGCTACTGCTACTGCTGGTGGCCACCACAGGCC
 CCGTTGGAGCCCTCACAGATGAGGAGAAAACGTTTGGTGGAGCTGCACAACTCTACCGGCCAGGT
 ATCCCCGCCGCCCTCAGACATGCTGCACATGAGATGGGACGAGGAGCTGGCCGCCTTCGCCAAGGCCTAC
 GCACGGCAGTGCCTGTGGGGCCACAACAAGGAGCGGGCGCCGCGGAGAATCTGTTCCGCATCACAG
 ACGAGGGCATGGACGTGCCGCTGGCCAATGGAGGAGTGGCACCACGAGCGTGAACCTCAGCGC
 CGCCACCTGCAGCCAGGCCAGATGTGCGGCCACTACACGCAGGTGGTATGGCCAAGACAGAGAGGATC
 GGCTGTGGTTCCCACTTCTGTGAGAAGCTCCAGGGTGTGAGGAGACCAACATCGAATTACTGGTGTGCA
 ACTATGAGCCTCCGGGAACGTGAAGGGAAAACGGCCCTACCAGGAGGGGACTCCGTGCTCCAATGTCC
 CTCTGGTACCCTGCAAGAAGCTCCCTCTGTGAACCCATCGGAAGCCGGAAGATGCTCAGGATTTGCCT
 TACCTGGTAACTGAGGCCCATCCTTCCGGGCGACTGAAGCATCAGACTTAGGAAAATGGGTACTCCTT
 CTTCCCTAGCAACGGGGATTCCGGCTTTCTTGGTAACAGAGGTCTCAGGCTCCCTGGCAACCAAGGCTCT
 GCCTGCTGTGAAACCCAGGCCCAACTTCCTTAGCAACGAAAGACCCGCCCTCCATGGCAACAGAGGCT
 CCACCTTGCCTAACAACTGAGGTCCCTTCCATTTGGCAGCTCACAGCCTGCCCTCCTGGATGAGGAGC
 CAGTTACCTTCCCAAAATCGACCATGTTCTATCCAAAATCAGCAGACAAAGTGACAGACAAAACAAA
 AGTGCCCTTAGGAGCCAGAGAACTCTCTGGACCCAAAGATGTCCCTGACAGGGGCAAGGGAGCTCCTA
 CCCCATGCCAGGAGGAGGCTGAGGCTGAGGCTGAGTTGCCTCCTCCAGTGAGGTCTTGGCCTCAGTTT
 TTCCAGCCAGGACAAGCCAGGTGAGCTGACGGCCACACTGGACCACAGGGGACACCTCCTCCAAGTC
 CCTCCCAATTTCCCAATACCTCTGCCACCGTAATGCCACGGGTGGGGTGGCCCTGGCTCTGCAGTCG
 TCTTGGCAGGTGCAGAGGGCCCTGACAAGCCTAGCGTGTGTCAGGGCTGAACTCGGGCCCTGGTCATG
 TGTGGGCCCTCTCCTGGGACTACTGCTCCTGCCTCCTCTGGTGTGGCTGGAATCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207631 representing NM_153370
 Red=Cloning site Green=Tags(s)

MHGSCSFLMLLLPLLLLVAATTGPVGLTDEEKRLMVELHNLRYAQVSPASDMLHMRWDEELAAFAKAY
 ARQCVWGHNKERRRGENLFAITDEGMDVPLAMEEWHHEREHYNLAAATCSPGQMCGHYTQVWAKTERI
 GCGSHFCEKLQGVETNIELLVCNYEPPGNVKGKRPYQEGTPCSQCPSGYHCKNSLCEPIGSPEDAQDLP
 YLVTEAPSFRAEASDRKMGTPSSLATGIPAFVTEVSGSLATKALPAVETQAPTSLATKDPSPMATEA
 PPCVTTVEVPSILAAHSLPSLDEEPVTFPKSTHVPKIPKSADKVTDKTKVPSRSPENSLDPKMSLTGARELL
 PHAQEEAEAEALPPSSEVLASVFPAQDKPGELQATLDHTGHTSSKSLPNFPNTSATANATGGRALALQS
 SLPGAEGPDKPSVVSGLNSGPGHVWGPLLLGLLLLPLVLAGIF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153370

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_153370.2](#), [NP_699201.2](#)

RefSeq Size: 2205 bp

RefSeq ORF: 1392 bp

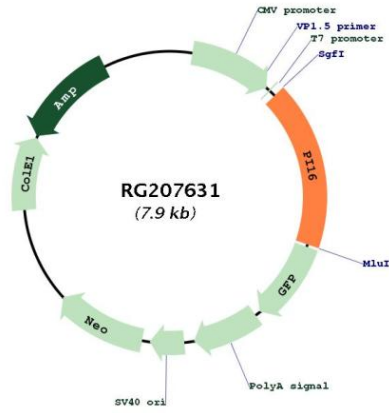
Locus ID: 221476

UniProt ID: [Q6UXB8](#)

Cytogenetics: 6p21.2

Domains: SCP
 Protein Families: Transmembrane
 Gene Summary: May inhibit cardiomyocyte growth.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207631