

Product datasheet for **RC223808**

PMFBP1 (NM_031293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMFBP1 (NM_031293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PMFBP1
Synonyms:	SPGF31; STAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223808 representing NM_031293 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGATGAGGCGGGGAGAGAGACAGAGAAGTGAGCAGCCTGAACAGCAAGCTGTTAAGCCTGCAAC
TTGACATCAAGAATCTGCACGATGTCTGCAAGAGACAGAGGAAGACCTTGCAGGACAATCAGCTCTGCAT
GGAGGAGGCAATGAACAGCAGCCACGACAAGAAGCAAGCAGGCATTAGCATTGAGGAGTCAGAGGTG
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AACAAAGAACTGGAGTTTACACAGAGGAGTTGCAGACTTCTTACTATTCTCTCCGCCAGTATCAGTCCAT
CCTAGAGAAGCAGACTTCCGACCTGGTTCTTCTGCACCATCACTGCAAACTGAAAGAAGATGAGGTGATT
CTCTATGAGGAGGAAATGGGAAATCACAAACGAGAACACAGGGGAGAAGCTCCATTTGGCGCAGGAGCAAC
TCGCCCTTGGCCGGGGACAAGATCGCCTCTCTAGAGAGGAGCTTAAACCTCTACAGGGATAAATACCAGTC
TTCCCTGAGCAACATCGAGTTACTAGAATGCCAAGTGAAGATGTTGCAGGGGAACTCGGCGGGATCATG
GGTCAGGAGCCTGAGAACAAGGGTGTATTCAAAGGTACGGATATACACTTCTCCTTGCATGATTCAAG
AGCATCAGGAGACTCAGAAACGACTGTCTGAAGTCTGGCAAAAGGTCTCTCAACAGGATGATCTCATTCA
AGAACTTCGAAATAAGCTGGCCTGCAGTAAACGCTTTGGTCTGGAGCGTGAAGGCTTTGATAAAACTA
CAAGCCGATTTTGCTTCTGTACAGCCACCCACAGATACCCCTAGCTCCTCAGAAGAGTGTGAAGACA
TCAAAAAGATACTGAAGCACTTGCAGGAGCAGAAAGACAGCCAGTGCCTGCATGTGGAGGATACCAGAA
CCTGGTGAAGGATCTGCAGCTGGAAGTCTGAGGCGGTGTCGGAACAGAAGAGAAACATCATGAAGGACATG
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CAGTCAAGGAGGCTAAGCAGGACAAGTCCAAGGAGGCGGAGTGAAGGCCCTGCAGGCTGAGGTCCAGAA
GCTGAAGAACAGTCTCGAAGAGGCAAGCAGCAGGAGAGGCTGGTCTGCTCAGCAAGCAGCCAGTGCAAA



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GAAGAGGCTGCACTGGCAGGCTGTACCTGGAGGACACCCAGAGGAACTGCAGAAGGGTCTCCTCTGG
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 CCTCATACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223808 representing NM_031293
 Red=Cloning site Green=Tags(s)

MKDEAGERDREVSSLNSKLLSLQLDIKLNLDVCKRQRKTLQDNQLCMEEAMNSSHDKKQAQALAFESEV
 EFGSSKQCHLRQLQQLKKLLVLQQEFHTEELQTSYYSLRQYQSILEKQTSIDLVLHHCKLKEDEVI
 LYEEEMGNHNENTGKHLHAQEQLALAGDKIASLERSLNL YRDKYQSSLNIEELLECVKMLQGELGGIM
 GQEPENKGDHSHKVRITYSPCMIQEHQETQKRLSEVWQKVSQQDDL IQELRNKLACSNALVLEREKALIKL
 QADFASCTATHRYPPSSSEECEDIKKILKHLQEQQDSQCLHVEEYQNLVKDLRVELEAVSEQKRNIMKDM
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 QNSLLKKEKELEKQCMATELEMTVKEAKQDKSKEAECKALQAEVQKLKNSLEEAKQERLAAQQAQCK
 EEAALAGCHLEDTQRKLQKGLLLDKQKADTIQELQRELQMLQKESMAEKEQTSNRKRVEEL SLELSEAL
 RKLENSDKEKRLQKTVAEQDMKMDMLDRIKHQHREQGSIKCKLEEDLQEATKLLLEDKREQLKKSKEHE
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 KESLMSLQAQLDQKALQKEKHYLQTTITKEAYDALSRKSAACQDDL TQALEKLNHVTSETKSLQQSLTQTQ
 EKKAQLEEEIIAYEERMKKLNTELRLKRGFHQSELEVFHAFDKKLEEMSCQVLQWQKQHQNDLMLAAKE
 EQLREFQEEMAALKENLEDDKEPCCLPQWSVPKDTCRL YRGNDQIMTNLEQWAKQKQVANEKLGNLRE
 QVKYIAKLSGEKDLHSHVMVHLQEQENKLLKKEIEEKKMKAENTRLCTKALGPSRTESTQREKVCGLTGWK
 GLPQDMGQRM DLTKYIGMPHCPGSSYC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8046_h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031293

ORF Size: 3021 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_031293.3](#)

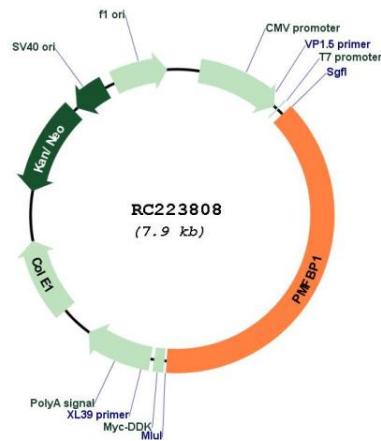
RefSeq Size: 3405 bp

RefSeq ORF: 3024 bp

Locus ID: 83449

UniProt ID: [Q8TBY8](#)
 Cytogenetics: 16q22.2
 MW: 117.3 kDa
 Gene Summary: Required for normal spermatogenesis (PubMed:1770140, PubMed:30032984, PubMed:30298696). It functions as a scaffold protein that attaches the sperm head-tail connecting piece to the nuclear envelope, thus maintaining sperm head and tail integrity (PubMed:30032984). May also be involved in the general organization of cellular cytoskeleton (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC223808