

Product datasheet for MR218887

Pmfbp1 (NM_019938) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pmfbp1 (NM_019938) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pmfbp1
Synonyms:	1700016D22Rik; F77; Stap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218887 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAAAGCTTAAAGGAGAATTACGAAGTCCAAAGGACTGAAGAATGAGGCTGGGGAGAGAGACAGGG
ACGTCAGCAATCTAAACAGCAAGCTCTTGAGCCTACAAGTGGACATCAAGAATCTCCACGATGTCTGCAA
GAGGCAGGGGAAGACCTTGAAGAGAACCAGCTCTGCGTGGAGGAAGCGATGCTGAAAGCCAACCAAC
AAGAAGCAAGCCAGACGTTAGTATTACGGACAACCAGATGGACTTCCGGTCAATAAGCAATACCATC
TCAGGCAACTCCAGCAACTGAAGAAGAAGCTGCTGACCCTCCAGCAGGAAGTGGATTCCGTACCCAGGA
GCTCCAGGCTTCCCTACTGCTCTCTCCTGCAGTACCAGTCGATCCTGGAGAAGCAGACTTCCGACCTTCTT
GTTCTTACCCTCACTGTAACTTAAGGAAGATGAGGTCACTTCTCTACGAGGAGGAGATGGGAAATCATA
GTAAGAGCACGGGGGAGAACTCCATCTGGCGCAAGAGCAGCTTGCCTTGGCGGGGACAAGATCCTCTC
CCTAGAAAGGAGCCTAACCTCTACAGGGACAAGTACCAGACTTCCCTGAGCAACATAGAGTTACTGGAG
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ACCCGAAGGTTTGAATCTACACTTCTCCGTGCGTGATTCAAGAGCATCAGGAGACCCTAAAGCGACTGTC
TGAAGCTGGCAAAAGGTTTCTGAACAGGATGACCTAATCCAGGAGCTTCGGAATAAACTGGCCTGCAGC
AACTCTTTGGTCTGGAGCGTGAGGAGGCTTGATAAAATTACAAGCTGAGTTTGCTTCTACACAGCCA
CCACCGCATCCCCCTACCTCCTCAGAAGACTGTGAAGACATCACAAGATCCTGAAGCACCTGCAAGA
GCAGAAAGACAGCCAGTGCCTGCACGTGGAGGAGTACCAGAACCCTGTGAAGACCTGCGCATGGAGCTG
GAAGCTGTGTCAGAACAGAAAGAAAAGATCATGAAGGACATGATGAAGCTGGAGCTAGATCTACATGGGC
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AGCTGGAGAAGCTACAGTGTACAACCAAGAAGTGGACACCAGCCTCCAAGAAGCTAGGCAAGCACATC
CAAAATAGACTGCGAGGCCCTGCGGGCCGAGATCCAGAAGCTCAAGGATAGCCTCGAGGAGGCCAGGGAG



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CAGCTGAAGGTGTCAGATCAGAATCTAACCCAGAGTAAGGAGGAAGCGCACCTCTCTGCCAGCAGCCTAG
 AGGATGCTCATCGGAAAATCGAGAACTGCCTTCTCCAGGACAAGCAGAAGGAAGAGGTCATTAAGGATCT
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 CTGGAGCCTTCCCAAAAGGGAAGCTATGCTGTGCCCTGGGCTGGAGAGGGATACCCAGGACCTGACAC
 CGAAAACGGACCACAAGTACATGGGGTTACCTCACTCTCAGGCTCCTCCTACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR21887 protein sequence
 Red=Cloning site Green=Tags(s)

MLKLGELRTAKGLKNEAGERDRVSNLNSKLLSLQLDIKNLHDVCKRQKTLQENQLCVEEAMKANH
 KKQAQTLVFTDNQMDFRVKNQYHLRQLQQLKLLTLQQLEFRTELQASYCSLLQYQSILEKQTSDDL
 VLHRHCKLKEDEVILYEEEMGNHKSSTGEKHLAQEQLALAGDKILSLERSLNLVRDKYQTSLSNIELLE
 CQVKMLEGELSGLIGQDPENKGDHPKVRIYTPCVIQEHQETLKRSEVWQKVSEQDDL IQELRNKLACS
 NSLVLEREEALIKLQAEFASYTATHRHPPTSSDCEDITKILKHLQEQKDSQCLHVEEYQNLVKDLRME
 EAVSEQKKKIMKMMKLELDLHGLREETSCVIEKKDKETVFLQYRLQDLQQYTESQKLSLKKDKLLQDK
 DERLHELEKNLMQVQNSLREKEAELEKLQCTTKELDTSLQEARQSTSKIDCEALRAEIQKLSLEEARE
 QLKVSDQNLQSKEEAHLSSASLEDAHRKIENCLLQDKQKEEVIKDLQSQLHKLQKESKIEEERKHNRQ
 RLQELSSELSEGQRRLSNAEKEKSLQKTLDEDEKKIDELFHSTQVSEQQREL TNSIRKLEELLEIKG
 LLEEKREQLKKSKEQEKALEEEIEALRQEAKRKEKMAKEHLRKLDEEKENLQAE LTSRSSHLDSLNKYN
 SSQKVIQELNAE IARQKDSIMILQTLQDSAIQKEKNCFQNMVSKEAYEELVRKSGNCQDDL TQALEKLTQ
 ATSETKSLNRSLLQQTQERKAQLEDEIAAYEERMKMLNMLKQLQGFQQQSEQEVHNFDDKLEEMSNQVLQ
 WQRQHQSLLKMLAAKESQLREFQEEMTLRESLLADEKEPYSPPAKLTPKETCRHHRENDQIMNNEQWA
 KEQKIANEKLGKLRQVQYIAKLTGEKDHLHNVVHLQENKLLKNEIEEKKL KAGNPRICVKAFFPNK
 LEPSQKGLCCALGWRGIPQDLTPKTDHKYMG LPHSSGSSYC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_019938

ORF Size: 3069 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_019938.1](#), [NM_019938.2](#), [NM_019938.3](#), [NP_064322.1](#)

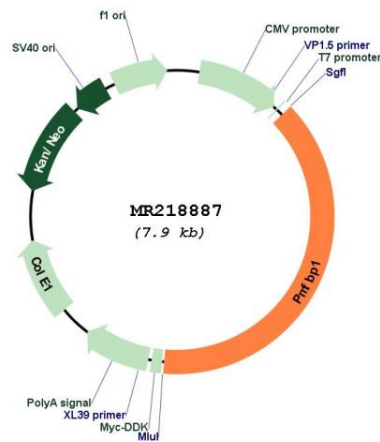
RefSeq Size: 3398 bp

RefSeq ORF: 3069 bp

Locus ID: 56523
 UniProt ID: [Q9WWQ0](#)
 Cytogenetics: 8 57.05 cM
 MW: 119.4 kDa

Gene Summary: Required for normal spermatogenesis (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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218887