

## Product datasheet for **MC218111**

### **Pitrm1 (BC006917) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pitrm1 (BC006917) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pitrm1
Synonyms:	MP1, mKIAA1104, Ntup1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC006917  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCCAGACGACAAGTATTATGAAAAGCAAACCTCAGATGGAGACAGAAAAGCTGGAGCAAAAGGTGA  
 ATTCTCTCTCCCGGCGACAAGCAGCAGATCTACGAGAAAGTTTGAAGTACAGACGCAGCAAAGTAA  
 ACATCAAGACGCCTCCTGCCTCCAGCATTGAAAGTCTCGGACATTGAGCCCTCCATGCCTTCCACCAAG  
 CTTGACATCGGCCTTGACGCTGGAGACATCCCTGTGCAGTACTGCCACAGCCACCAACGGCATGGTGT  
 ATTTCCGAGCCTTTCCAGTTTAAACACGCTGCCGGAGGACCTGAGGCCATTGTGCCTCTCTTTTGACG  
 CGTGCTGACCAAGCTGGTTGTGGCATCTTAACACAGAGAGCAAGCCCAACAGATTGAGCTCAAGACA  
 GGAGGCATGAGTGCACGCCCATGTGCTCCCTGACGACTCACAGCTGGATACCTACGAGCAGGGTGTGT  
 TATTTTCATCTCTGCCTGGAGCGGAACCTGCCAGACATGATGCATCTGTGGAGCGAAATATTTAACAA  
 TCCATGCTTTGAAGAAGAAGAACAACCTTCAAAGTGTGGTGAAGATGACCGCTCAGGAGCTCTCCAATGGA  
 ATTTGAGACTCGGGCATCTCTATGCAGCCCTCAGAGCAAGCAAGACACTGACACCTTCAGGGGACTTGC  
 AGGAGACCTTCAGTGGGATGGATCAGGTGAAGGTGATGAAAAGAATTGCAGAGATGACAGACATCAAGCC  
 CATCCTGAGAAAACCTGCCCGGATCAAGAAGTATCTACTAAACTGTGACAACATGAGATGCTCAGTGAAT  
 GCCACCCCTCAGCAGATGCCTCAGGCAGAAAAAGAGGTGGAAAACCTCCTTAGAAATGTTGGCCGAAGCA  
 AAAAGGAACGGAAGCCTGTCCGCCGCATATTGTCGAGAAACCCACCCAGTGGCCCCAGTGGAGCTGC  
 ACATGTCAGTGGTCCCAGATCGTCAGAAAATTGGTGACAGACCCACCTTCAAACCTGCCAGATGAAG  
 ACACATTTGTGCTGCCCTTCCCTGTGAATTACATTGGCGAGTGTGTGAGACTGTCCCCTATGCTGATC  
 CAGACATGCCAGCCTTAAGATCCTTGCCCGTCTAATGACAGCTAAATTCTTGATACGGAAATTCGAGA  
 GAAGGGGGTGTATGGTGGCGGTGCTAAACTCACCCACAGTGGGATTTTACGCTTTACTCTTACAGG  
 GATCCCAATTCCATAGAAACACTCCAGTCTTTGGGAAAGCTGTAGACTGGGCTAAGTCTGGAAAGTTCA  
 CACAGCAGGACATTGATGAAGCCAAGCTGTCTGTTTTCTACTGTGGATTCTCCTGTTGCTCCATCCGA  
 TAAAGGAATGGACCACTTCTGTATGGCCTCTCCGATGAGATGAAGCAGGCATACCGAGAACAGCTCTTT  
 GCTGTCAACCACGACAAACTGACCTCTGTGAGCCATAAATACCTTGGCATCGGGAAGAGCACACACGGCC  
 TGGCTATCTCGGACCAGAGAACTCAAAAATTGCCAAAGACCCATCATGGATCATAAAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** BC006917

**Insert Size:** 1602 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC006917](#), [AAH06917](#)

**RefSeq Size:** 2237 bp

**RefSeq ORF:** 1601 bp

**Locus ID:** 69617

**Cytogenetics:** 13 A1

**Gene Summary:** Metalloendopeptidase of the mitochondrial matrix that functions in peptide cleavage and degradation rather than in protein processing. Has an ATP-independent activity. Specifically cleaves peptides in the range of 5 to 65 residues. Shows a preference for cleavage after small polar residues and before basic residues, but without any positional preference. Degrades the transit peptides of mitochondrial proteins after their cleavage. Also degrades other unstructured peptides. It is also able to degrade amyloid-beta protein 40, one of the peptides produced by APP processing, when it accumulates in mitochondrion. It is a highly efficient protease, at least toward amyloid-beta protein 40. Cleaves that peptide at a specific position and is probably not processive, releasing digested peptides intermediates that can be further cleaved subsequently.[UniProtKB/Swiss-Prot Function]