

## Product datasheet for **MC218952**

### Prf1 (NM\_011073) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prf1 (NM_011073) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prf1
Synonyms:	Pfn; Pfp; Prf-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>MC218952 representing NM\_011073

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCACGTGCCTGTTCTCCTGGGCCTTTCTGCTGCTGCCACGACCTGTCCCTGCTCCCTGCTACA  
CTGCCACTCGGTCAGAATGCAAGCAGAAGCACAAGTTCGTGCCAGGTGTATGGATGGCTGGGAAGGCAT  
GGATGTGACTACCTCCGCCGCTCCGGCTCCTCCAGTGAACACACAGAGGTTCTGAGGCCTGACCGC  
ACCTGCACCTCTGTAATAAATCCCTAATGAGAGACGCCACACAGCGCCTACCTGTGGCAATCACCCACT  
GGCGGCCCTCACAGCTCACACTGCCAGCGTAATGTGGCCGACGCCAAGGTCCACTCCACGGAGGGTGTGGC  
CCGGGAGGCAGCTGCTAATATCAATAACGACTGGCGTGTGGGGCTGGATGTGAACCTAGGCCAGAGGCA  
AACATGCGCGCCTCCGTGGCTGGCTCCCACTCCAAGGTAGCCAATTTTCAGCTGAGAAGACCTATCAGG  
ACCACTACAATTTAATAGCGACACAGTAGAGTGTGCATGTACAGTTTTCGCCTGGTACAAAACTCC  
ACTCCACCTTGACTTCAAAAAGGCGCTCAGAGCCCTCCCCGCACTTTAACAGCTCCACAGAGCATGCT  
TACCACAGGCTCATCTCCTCTATGGCACGCACTTTATCACGGCTGTGGACCTCGGTGGCCGCATCTCGG  
TCCTTACAGCCCTGCGTACCTGTGAGCTGACCCGAATGGGCTCACAGCTGATGAGGTAGGAGACTGCC  
GAACGTGGAGGCCAGGTGAGCATCGGTGCCAAGCCAGCGTCTCCAGTGAATACAAAGCTTGTGAGGAG  
AAGAAGAAACAGCACAAAATGGCCACCTTTCCACCAGACCTACCGTGAGCGTCACGTCGAAGTACTTG  
GTGGCCCTCTGGACTCCACGCATGATCTGCTCTCGGGAACCAAGCTACACCAGAGCAGTTCTCAACCTG  
GACAGCCTCACTGCCAGCAACCCTGGTCTGGTGGACTACAGCCTGGAGCCCTGCACACATTACTGGAA  
GAACAGAACCCGAAGCGGGAGGCTCTGAGACAGGCTATCAGCCATTATATAATGAGCAGAGCCCGTGGC  
AGAACTGTAGCAGGCCCTGCAGGTCAGGCCAGCATAAGAGTAGCCATGATTCATGCCAGTGTGAGTGCCA  
GGATTCAAAGGTCACCAACCAGGACTGCTGCCACGACAGAGGGGCTTGGCCATTGGTGGTAAGCAAT  
TTCCGGGCAGAACATCTGTGGGAGACTACACCACAGCTACTGATGCCTACCTAAAGGTCTTCTTTGGTG  
GCCAGGAGTTCAGGACCGGTGTCGTGTGGAACAATAACAATCCCCGGTGGACTGACAAGATGGACTTTGA  
GAATGTGCTCCTGTCCACAGGGGACCCCTCAGGGTGCAGGTCTGGGATGCCGACTACGGCTGGGATGAT  
GACCTTCTGGTTCTTGTGACAGGTCTCCCACTCTGGTTTCCATGAGGTGACATGTGAGCTAAACCAG  
GCAGGGTGAATTTCTCTACCATGCCAAGTGTCTGCCCATCTCACTGGAGGGACCTGCCTGGAGTATGC  
CCCCAGGGGCTTCTGGGAGATCTCCAGGAAACCGCAGTGGGGCTGTGTGGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_011073

**Insert Size:**

1665 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_011073.3](#), [NP\\_035203.3](#)

**RefSeq Size:** 2054 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 18646

**UniProt ID:** [P10820](#)

**Cytogenetics:** 10 32.18 cM

**Gene Summary:** Plays a key role in secretory granule-dependent cell death, and in defense against virus-infected or neoplastic cells. Can insert into the membrane of target cells in its calcium-bound form, oligomerize and form large pores. Promotes cytolysis and apoptosis of target cells by facilitating the uptake of cytotoxic granzymes.[UniProtKB/Swiss-Prot Function]