

Product datasheet for **MR227213**

Prf1 (NM_011073) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prf1 (NM_011073) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR227213 representing NM_011073
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACGTGCCTGTTCTCTCTGGGCCTTTTCTGCTGCTGCCACGACCTGTCCCTGCTCCCTGCTACA
 CTGCCACTCGGTCAGAATGCAAGCAGAAGCACAAGTTCGTGCCAGGTGTATGGATGGCTGGGAAGGCAT
 GGATGTGACTACCTCCGCCGCTCCGGCTCCTTCCAGTGAACACACAGAGGTTCTGAGGCCTGACCCG
 ACCTGCACCTCTGTAATAAATCCCTAATGAGAGACGCCACACAGCGCCTACCTGTGGAAATCACCCACT
 GGCGGCCCTCACAGCTCACACTGCCAGCGTAATGTGGCCGACGCCAAGGTCCACTCCACGGAGGGTGTGGC
 CCGGGAGGCAGCTGCTAATATCAATAACGACTGGCGTGTGGGGCTGGATGTGAACCTAGGCCAGAGGCA
 AACATGCGCGCCTCCGTGGCTGGCTCCACTCCAAGGTAGCCAATTTTGCAGCTGAGAAGACCTATCAGG
 ACCAGTACAATTTAATAGCGACACAGTAGAGTGTGCATGTACAGTTTTCGCCTGGTACAAAACTCC
 ACTCCACCTTGACTTCAAAAAGGCGCTCAGAGCCCTCCCCGCACTTTAACAGTCCACAGAGCATGCT
 TACCACAGGCTCATCTCCTCTATGGCACGCACCTTATACAGGCTGTGGACCTCGGTGGCCGCATCTCGG
 TCCTTACAGCCCTGCGTACCTGTGAGCTGACCCGAATGGGCTCACAGCTGATGAGGTAGGAGACTGCCT
 GAACGTGGAGGCCAGGTGAGCATCGGTGCCAAGCCAGCGTCTCCAGTGAATACAAAGCTTGTGAGGAG
 AAGAAGAAACAGCACAAAATGGCCACCTTTTCCACCAGACCTACCGTGAGCGTCACGTCGAAGTACTTG
 GTGGCCCTCTGGACTCCACGCATGATCTGCTCTTCGGGAACCAAGCTACACCAGAGCAGTTCTCAACCTG
 GACAGCCTCACTGCCAGCAACCCTGGTCTGGTGGACTACAGCCTGGAGCCCTGCACACATTACTGGAA
 GAACAGAACCCGAAGCGGGAGGCTCTGAGACAGGCTATCAGCCATTATATAATGAGCAGAGCCCGGTGGC
 AGAAGTGTAGCAGGCCCTGCAGGTGAGCCAGCATAAGAGTAGCCATGATTCATGCCAGTGTGAGTGCCA
 GGATTCAAAGGTCACCAACCAGGACTGCTGCCACGACAGAGGGGCTTGGCCATTTGGTGGTAAGCAAT
 TCCGGGGCAGAACATCTGTGGGAGACTACACCACAGCTACTGATGCCTACCTAAAGGTCTTCTTTGGTG
 GCCAGGAGTTCAGGACCGGTGTCGTGTGGAACAATAACAATCCCCGGTGGACTGACAAGATGGACTTTGA
 GAATGTGCTCCTGTCCACAGGGGACCCCTCAGGGTGCAGGTCTGGGATGCCGACTACGGCTGGGATGAT
 GACCTTCTTGGTCTTGTGACAGGTCTCCCACTCTGGTTCCATGAGGTGACATGTGAGCTAAACCAGG
 GCAGGGTGAATTTCTCTACCATGCCAAGTGTCTGCCCATCTCACTGGAGGGACCTGCCTGGAGTATGC
 CCCCCAGGGGCTTCTGGGAGATCTCCAGGAAACCGCAGTGGGGCTGTGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227213 representing NM_011073
 Red=Cloning site Green=Tags(s)

MATCLFLLGLFLLLPRVPAPCYTATRSECKQKHKFPVGVWVWAGEGMDVTTLRRSGSFPVNTQRFRLRPDR
 TCTLCKNSLMRDATQRLPVAITHWRPHSSHQQRNVAAAKVHSTEGVAREAAANINNDWRVGLDVNRPREA
 NMRASVAGSHSKVANFAAEKTYQDQYNFNSDTVECRMYSFRLVQKPLHLDFKKALRALPRNFNSSTEHA
 YHRLISSYGTHFITAVDLGGRISVLTALRQCQLTLNGLTADVEGDCLNVEAQVSIQAQASVSSEYKACEE
 KKKQHKMATSFHQTYRERHVEVLGGPLDSTHLLFGNQATPEQFSTWTASLPSNPLVDYSLEPLHTLLE
 EQNPKREALRQAI SHYIMSRARWQNC SRPCRSQGHKSSHDSQCCEQDSKVTNQDCCPRQRGLAHLVVS
 N FRAEHLWGDYTTATDAYLKVFFGGQEFRTGVVWNNNPRWTDKMDFENVLLSTGGPLRVQVWDADYGWDD
 DLLGSCDRSPHSGFHEVTCELNHGRVKFSYHAKCLPHL TGGTCL EYAPQGLLGDPPGNRSGAVW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_011073

ORF Size: 1662 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

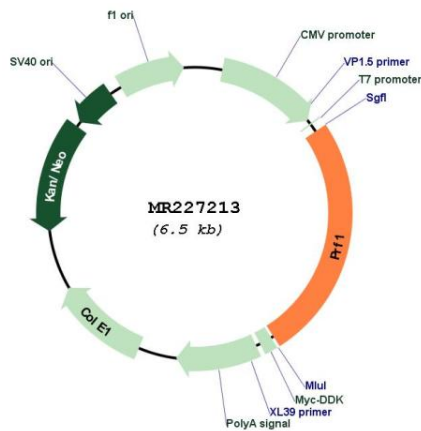
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_011073.3, NP_035203.3](#)
RefSeq Size: 2054 bp
RefSeq ORF: 1665 bp
Locus ID: 18646
UniProt ID: [P10820](#)
Cytogenetics: 10 32.18 cM
MW: 62.5 kDa

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]

Product images:



Circular map for MR227213