

## Product datasheet for **RC207498**

### PRDM4 (NM\_012406) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM4 (NM_012406) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRDM4
Synonyms:	PFM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC207498 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCATCACAGGATGAATGAAATGAACCTGAGTCCAGTGGGGATGGAGCAGCTGACTTCATCCTCTGTGA  
 GCAATGCCTTGCCAGTCTCAGGAAGTCACTGGGATTGGCTGCCTCACCCACTCACAGTGCATCCCTGC  
 CCCAGGCCTCCCAGTGGCAATTCCAAACCTGGGTCCCTCCCTGAGCTCTCTGCCTTCTGTCTGTCTTTA  
 ATGCTACCAATGGGTATTGGGGATCGAGGGGTGATGTGTGGGTTACCTGAAAGAACTACACCCTACCTC  
 CACCACCTTACCCTCACCTGGAGAGCAGTTATTTCAGAACCATTCTACCTGGCATTATCTTATTTAGC  
 TGACAGACCACCTCCACAGTACATCCACCCTAACTCTATAAATGTTGATGGTAATACAGCATTATCTATC  
 ACCAATAACCCTTCAGCACTAGATCCCTATCAGTCCAATGGAAATGTTGGATTAGAACCAGGCATTGTTT  
 CAATAGACTCTCGCTCTGTGAACACACATGGTGCCCAAAGTCTTCATCCCAGTATGGCCATGAGGTGGC  
 CTTGGACACAGCAATCACTATGGAGAACGTTTCTAGGGTTACCAGCCAAATTTGACAGATGGAATGGCA  
 GAGGAGCTTACGATGGACGGTGTGACAGCGAGCATTCCCAAATCCCAAATGGCTCCAGAAGTCATGAAC  
 CTCTGTCTGTGGATTCTGTGAGCAACAACCTTGACAGCAGACGCTGTAGGACATGGTGGTGTGATACCCAT  
 GCATGGGAATGGCCTGGAGCTCCCTGTGGTCATGGAGACAGACCACATTGCAAGTCGGGTCAATGGCATG  
 TCTGACAGTGCCTCAGTACTCCATTCACACTGTGGCCATGAGCACCAACTCTGTAAGCGTGGCACTCT  
 CTACCTCACACAACCTTGCCCTCCCTAGAATCTGTTTCCCTCCATGAAGTTGGCCTCAGCCTAGAACCTGT  
 GGCTGTCTCCTCCATCACCCAGGAGTTGCTATGGGGACAGGTGATGTAGATGTATCTTCAGACAGTCTT  
 TCTTTTGTATCACCTTCACTGCAATGGAAGACTCCAATTCAAACAAGGAGAACATGGCAACCTTGTTTA  
 CAATTTGGTGTACTCTGTGTGACCGGCCTATCCCTCGGACTGTCCCGAACATGGACCAGCTTTTGT  
 TCCTGACACTCCAATAGAGAGCAGAGCAAGGCTTTCTCTCCCAAAGCAGCTTGTCTCCGTCACTCAATT  
 GTGGGAGCAGAAGTTGGTGTATGGACTGGAGAAACCATTCTGTGCGGACTTGCTTTGGACCTCTAATTG  
 GCCAGCAGAGTCACTCCATGGAAGTAGCAGAATGGACAGACAAGGCAGTTAACCATATCTGGAAGATATA  
 CCACAATGGTGTCTAGAAATCTGCATCATTACAAGTATGAAAATGAATGTAATTGGATGATGTTTGTG  
 CGCAAAGCCAGGAACCGGAAGAGCAGAATTTGGTGGCTTATCCTCATGATGGAAAAATCTTTTCTGCA  
 CCTCACAAGATATCCCTCCTGAAAATGAACTGCTTTTTTATTATAGCCGAGATTATGCTCAACAGATTGG  
 TGTTCTGAACACCCAGATGTGCATCTCTGTAAGTGTGGCAAGGAGTGAATTTTACACAGAGTTCAAA  
 GCCCATCTGACCAGCCACATCCATAACCATCTTCTACCCAGGGACATAGCGGCAGCCATGGGCCAAGTC  
 ACAGCAAAGAAAGGAAGTGAAGTGTCAATGTGCCCCCAAGCTTTTATCTCCTTCCAAACTTCATGT  
 CCATTTATGGGTACATGGGTATGAAGCCCACAAGTGTGATTTCTGTAGCAAGCTTTTATGATGCC  
 AGCAACCTGCGGACCCACCTCAAGATACATACAGGTGAGAAGAACTACAGGTGTACCTTGTGTGACAAGT  
 CTTTACCCAGAAGGCTCACCTGGAGTCCCACATGGTTATCCCACTGGGGAGAAGAATCTTAAGTGTGA  
 TTAAGTGTGACAAGTTGTTTATGCGGAGGCAGGACCTCAAGCAGCACGTGCTCATCCACACTCAAGAACGC  
 CAGATCAAGTGTCCCAAGTGTGATAAGCTGTTCTTGAGAACAAATCACTTAAAGAAGCATCTCAATTCTC  
 ATGAAGGAAAACGGGATTATGTCTGTGAAAAATGTACAAAGGCTTATCTAACCAAATACCATCTCACCCG  
 CCACCTGAAAACCTGCAAAGGGCCACCTCCAGTTCGTCAGCACAGAGGAGGAAGAAGAGGATGACTCA  
 GAAGAGGAAGATCTAGCAGACTCTGTGGGACAGAAGACTGTAGGATTAACAGTGTGTGATTCAGCGG  
 ATGAGTCTCTTTCTGCACATAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207498 protein sequence  
Red=Cloning site Green=Tags(s)

MHHRMNMENLSPVGMEQLTSSSVSNALPVSGSHLGLAASPTHTSAIPAPGLPVAIPNLGPSLSSLPSALS  
MLPMGIGDRGVMCGLPERNYTLPPPPYPHLESSYFRTILPGILSYLADRPPPQYIHPNSINVDGNTALSI  
TNNPSALDPYQSNNGVLEPGIIVSIDSRSVNTHTGAQSLHPSDGHVALDTAITMENVSRTSPISTDGMA  
EELTMDGVAGEHSQIPNGSRSHPELSDSVSNLAADAVGHGGVIPMHGNGLELPVVMETDHIASRVNGM  
SDSALSDSIHTVAMSTNSVSVALSTSHNLASLESVSLHEVGLSLEPVAVSSITQEVAMGTGHVDVSSDSL  
SFVSPSLQMEDSNSNKENMATLFTIWCTLCDRAYSDCPEHGPVTFVPDTPIESRRLSLPKQLVLRQSI  
VGAEVGVWTGETIPVRTCFGPLIGQQSHSMEVAEWTDKAVNHIWKIYHNGVLEFCIITTDENECSNMMFV  
RKARNREEQNLVAYPHDGKIFFCTSQDIPPENELLYYSRDYAQQIGVPEHPDVHLCNCGKECNSYTEFK  
AHLTSHIHNHLPTQGHSGSHGSPHSKERKWKCSMCPQAFISPSKLVHVFHGMGMKPHKCDFCSKAFSDP  
SNLRTHLKIHTGQKNYRCTLCDKSFTQKAHLESHMVIHTGEKNLKCXYCDKLFMRRQDLKQHVLIHTQER  
QIKCPKCDKFLRTHLKKHLNSHEGKRDYVCEKCTKAYLTKYHLTRHLKTCCKGPTSSSSAPEEEEEEDS  
EEDLADSVGTEDCRINSAVYSADESLSAHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6516\\_g12.zip](https://cdn.origene.com/chromatograms/mk6516_g12.zip)

**Restriction Sites:** SgfI-MluI



**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\\_012406.4](#)

**RefSeq Size:** 4225 bp

**RefSeq ORF:** 2406 bp

**Locus ID:** 11108

**UniProt ID:** [Q9UKN5](#)

**Cytogenetics:** 12q23.3

**Domains:** zf-C2H2

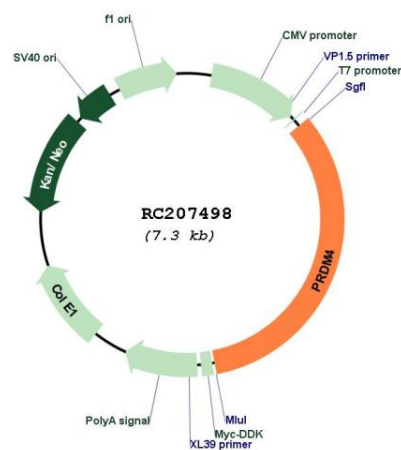
**Protein Families:** Transcription Factors

**Protein Pathways:** Neurotrophin signaling pathway

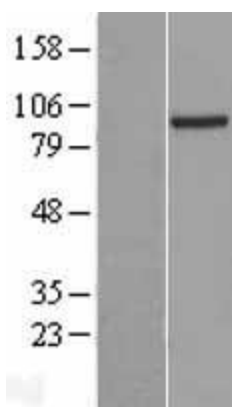
**MW:** 87.9 kDa

**Gene Summary:** The protein encoded by this gene is a transcription factor of the PR-domain protein family. It contains a PR-domain and multiple zinc finger motifs. Transcription factors of the PR-domain family are known to be involved in cell differentiation and tumorigenesis. An elevated expression level of this gene has been observed in PC12 cells treated with nerve growth factor, beta polypeptide (NGF). This gene is located in a chromosomal region that is thought to contain tumor suppressor genes. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC207498



Western blot validation of overexpression lysate (Cat# [LY415784]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207498 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).