

Product datasheet for **RG207498**

PRDM4 (NM_012406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM4 (NM_012406) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRDM4
Synonyms:	PFM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207498 representing NM_012406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCACAGGATGAATGAAATGAACCTGAGTCCAGTGGGGATGGAGCAGCTGACTTCATCCTCTGTGA
 GCAATGCCTTGCCAGTCTCAGGAAGTCACTGGGATTGGCTGCCTCACCCACTCACAGTGCATCCCTGC
 CCCAGGCCTCCCAGTGGCAATTCCAAACCTGGGTCCCTCCCTGAGCTCTCTGCCTTCTGTCTGTCTTTA
 ATGCTACCAATGGGTATTGGGGATCGAGGGGTGATGTGTGGGTTACCTGAAAGAACTACACCCTACCTC
 CACCACCTTACCCTCACCTGGAGAGCAGTTATTTGAGAACCATTCTACCTGGCATTATCTTATTTAGC
 TGACAGACCACCTCCACAGTACATCCACCCTAACTCTATAAATGTTGATGGTAATACAGCATTATCTATC
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 CTACCTCACACAACCTTGCTCCCTAGAATCTGTTTCCCTCCATGAAGTTGGCCTCAGCCTAGAACCTGT
 GGCTGTCTCCTCCATCACCCAGGAGTTGCTATGGGGACAGGTGATGTAGATGTATCTTCAGACAGTCTT
 TCTTTTGTATCACCTTCACTGCAATGGAAGACTCCAATTCAAACAAGGAGAACATGGCAACCTTGTTTA
 CAATTTGGTGTACTCTGTGTGACCGGCCTATCCCTCGGACTGTCCCGAACATGGACCAGTCTTTGT
 TCCTGACACTCCAATAGAGAGCAGAGCAAGGCTTTCTCTCCCAAAGCAGCTTGTCTCCGTCAGTCAATT
 GTGGGAGCAGAAGTTGGTGTATGGACTGGAGAAACCATTCTGTGCGGACTTGCTTTGGACCTCTAATTG
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 CCACAATGGTGTCTAGAAATCTGCATCATTACAAGTGAATGAATGTAATTGGATGATGTTTGTG
 CGCAAAGCCAGGAACCGGGAAGAGCAGAATTTGGTGGCTTATCCTCATGATGGAAAAATCTTTTCTGCA
 CCTCACAAGATATCCCTCCTGAAATGAACTGCTTTTTTATTATAGCCGAGATTATGCTCAACAGATTGG
 TGTTCTGAACACCCAGATGTGCATCTCTGTAAGTGTGGCAAGGAGTGAATTTACACAGAGTTCAA
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 GAAGAGGAAGATCTAGCAGACTCTGTGGGACAGAAGACTGTAGGATTAACAGTGTGTATTACAGCGG
 ATGAGTCTCTTTCTGCACATAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207498 representing NM_012406
 Red=Cloning site Green=Tags(s)

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MHHRMNMENLSPVGMEQLTSSSVSNALPVSGSHLGLAASPTHTSAIPAPGLPVAIPNLGPSLSSLPSALS
MLPMGIGDRGVMCGLPERNYTLPPPPYPHLESSYFRTILPGILSYLADRPPPQYIHPNSINVDGNTALSI
TNNPSALDPYQSNGNVGLEPGIIVSIDSRSVNTHGAQSLHPSDGEVALDTAITMENVSRVTSPISTDGMA
EELTMDGVAGEHSQIPNGSRSEPLSVDSVSNLAADAVGHGGVIPMHGNGLELPVVMETDHIASRVNGM
SDSALSDSIHTVAMSTNSVSVALSTSHNLASLESVSLHEVGLSLEPVAVSSITQEVMAGTGHVDVSSDSL
SFVSPSLQMEDSNSNKENMATLFTIWCTLCDRAYSDCPEHGPVTFVPDTPIESRRLSLPKQLVLRQSI
VGAEVGVWTGETIPVRTCFGPLIGQQSHSMEVAEWTDKAVNHIWKIYHNGVLEFCIITTDENECSNMMFV
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AHLTSHIHNHLPTQGHSGSHGSPHSKERKWKCSMCPQAFISPSKLHVHFMGHMGMKPHKCDFCSKAFSDP
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QIKCPKCDKFLRTNHLKKHLNSHEGKRDYVCEKCTKAYLTKYHLTRHLKTCCKGPTSSSSAPEEEEEEDS
EEDLADSVGTEDCRINSAVYSADESLSAHK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012406

ORF Size: 2403 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_012406.4](#)

RefSeq Size: 4225 bp

RefSeq ORF: 2406 bp

Locus ID: 11108

UniProt ID: [Q9UKN5](#)

Cytogenetics: 12q23.3

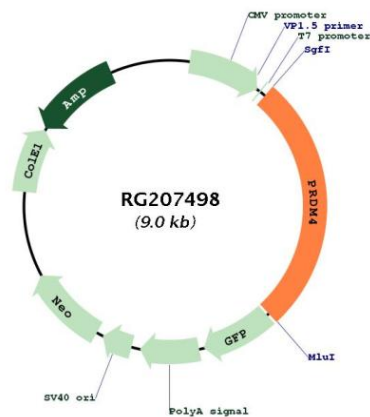
Domains: zf-C2H2

Protein Families: Transcription Factors

Protein Pathways: Neurotrophin signaling pathway

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 RG207498