

Product datasheet for **RG214049**

PRDM7 (NM_001098173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PRDM7
Synonyms:	PFM4; ZNF910
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214049 representing NM_001098173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCCCTGAAAGGTCCCAAGAGGAGAGCCAGAAGGAGACACAGAGAGAACAGAGCGGAAGCCCATGG
 TCAAAGATGCCTTCAAAGACATTTCCATATACTTCACCAAGGAAGAATGGGCAGAAATGGGAGACTGGGA
 GAAACTCGCTATAGGAATGTGAAATGAAGTAAATGCACTGATTACTGTAGGTCTCAGAGCCACTCGA
 CCAGCTTTCATGTGTACCGAAGGCAGGCCATCAAACTCCAGGTGGATGACACAGAAGATCCGATGAAG
 AATGGACACCTAGGCAGCAAGTCAAACTCCTTGGATGGCTTCAGAGGAGAACAGAGTAAACACCAGAA
 GGGAATGCCCAAGGCGTCATTCAATAATGAATCTAGTTTGAGAGAATTGTCAGGAACGCCAAATTTACTG
 AATACAAGTGAAGTCAAGCAGGCTCAGAAACAGTGTCCCCTCCTGGAGAAGCAAGTACCTCTGGACAGC
 ACTCTAGACTAAACTGGAAGTCAAGGAGGAAGGAGACTGAAGGAAAGATGTATAGCCTGCGAGAAAGAAA
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 GAACTTCCCAGGACCATCTGCAAGAAAATTTCTCAACCAGAGAATCCCTGCCAGGGGATCAGAATCAG
 GAGCGGCAATATTCTGATCCACGCTGCTGTAATGACAAAACCAAGGTCAAGAGATCAAAGAAGGTCCA
 AACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

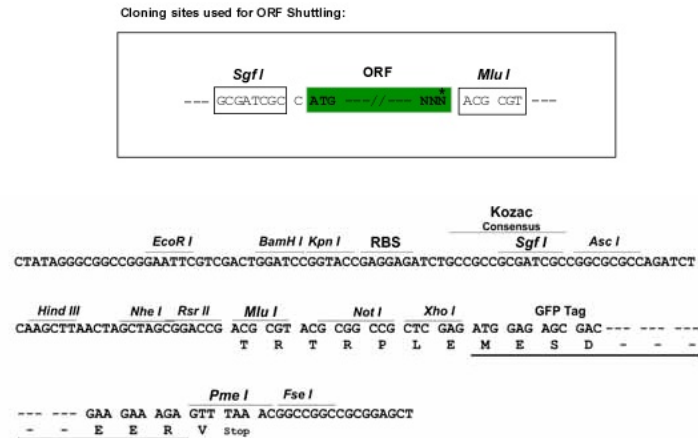
Protein Sequence: >RG214049 representing NM_001098173
 Red=Cloning site Green=Tags(s)

MSPERSQEESEPEDTERTERKPMVKDAFKDISIYFTKEEWAEMGDWEKTRYRNVKMNYNALITVGLRATR
 PAFMCHRRQAIKLQVDDTEDSDEEWTPRQVKPPWMAFRGEQSKHQKMPKASFNNESLRELSGTPNLL
 NTSDSEQAQKPVSPPEASTSGQHSRLKLELRKETEGKMYSLRERKGHAYKEISEPQDDLYLCMCQN
 FFIDSCAAHGPPFTFKDSAVDKGHPNRSALSLPPGLRIGPSGIPQAGLGVWNEASDLPLGLHFGPYEGRI
 TEDEEAANSYGSWLITKGRNCYEYVDGDKSSANWMRYVNCARDDEEQNLVAFQYHRQIFYRTCRVIRPG
 CELLVWSGDEYQELGIRSSIEPAESLGQAVNCWSGMGMSMARNWASSGAASGRKSSWQGENQSQRSIHV
 PHAVWPFQVKNFSVNMWNAITPLRTSQDHLQENFSNQRIPAQGIRIRSGNILIHAAVMTKPKVKRSKKG
 P

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001098173

ORF Size: 1476 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001098173.2](#)

RefSeq Size: 3284 bp

RefSeq ORF: 1479 bp

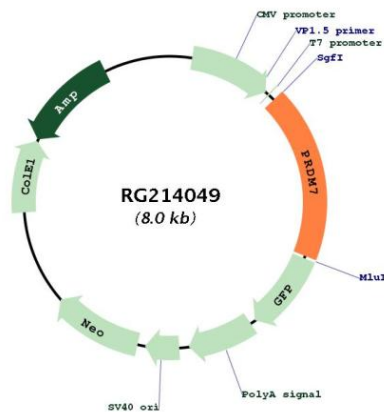
Locus ID: 11105

UniProt ID: [Q9NQW5](#)

Cytogenetics: 16q24.3

Gene Summary: This gene encodes a member of a family of proteins that may have roles in transcription and other nuclear processes. The encoded protein contains a KRAB (Kruppel-associated box) domain -A box and a SET (Su(var)3-9, Enhancer-of-zeste, Trithorax) domain and may function as a histone methyltransferase. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG214049