

Product datasheet for **RG208569**

PRDM14 (NM_024504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM14 (NM_024504) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRDM14
Synonyms:	PFM11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208569 representing NM_024504
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTACCCCGCCAAGTGAGGCCGTGCCTCAGGACAAGGTGTGCTACCCGCGGAGAGCAGCCCGC
 AGAACCTGGCCGGTACTACACGCCTTTCCCGTCTATGGACTACAGAAACAGCCTGGCCACCGTGGA
 GGAAGACTTCCAACCTTTCCGGCAGCTGGAGGCCGACGCTGTCTGCCCGCCATGCCCCCTTCCCT
 TTCCGGATGGCGCCTCCCTTGTGAGCCGGGTCTGGCCTACAGAGGGAGCCTCTCTACGATCTGCCCT
 GGTACAGCAAGCTGCCACCGTGTACCAATTCCCACGTCCCCAGGGAAGTGCCGCCCTTCTGAGCAG
 CAGCCACGAGTACGCGGGTCCAGCAGTGAAGATCTGGGCCACCAATCATTGGTGGCACAACGAGAGT
 GGCCCGTGTGTGACCTGACACTTTAATCCACCGCCCTGCGGATGCTTCTCTGTTACCTGAGGGGC
 TGAGGACCTCCAGTTATTACCTTGTCTACCCAGCAAGCAGTCAAGGATGGTCCCAAACCTCCAACCA
 AGAAGGGAAGTCCCTGCTCGTTCAGTTACGAGGAGGACCTGCACTTCGTTCTGTACGGGGTCACT
 CCCAGCCTGGAGACCCAGCCAGCCTGCACCATGCGATTTACGGCCTCCTGGTCCCCCAGACAGCTCTG
 GATCTGATTCTTCTCAAACCTCTGGATGAAGACTCCCTTCAACTTCCAGAAGGTCTATGCCTCATGCA
 GACGGTGTGGTGAAGTCCCACATTTTGGTGTGTCTGCACTAGTTTTATCGCCAAAGGAGTCAAGTTT
 GGGCCCTTTCAAGGTAAGTGGTCAATGCCAGTGAAGTGAAGACCTACGGAGACAATTCTGTGATGTGGG
 AGATCTTTGAAGATGGTCAATTTGAGCCACTTTATAGATGGAAAAGGAGGTACGGGAACTGGATGTCCTA
 TGCAACTGTGCCCGCTTCCCAAGGAGCAGAACCTAGTTGTGTGAGTGTCAAGGGCATAATTTTTAT
 GAGAGCTGCAAAGAGATTCATCAGAACCAAGAGCTCCTTGTGTGGTATGGAGACTGCTATGAGAAATTC
 TGGATATTCTGTGAGCCTTCAAGTACAGAGCCGGGGAAGCAGCCATCTGGGCCCTGTAAGAGTCTGC
 AGAAGGCTACAGATGTGAAAGATGTGGGAAGTATTTACCTACAATATTACAGAGATAAGCACCTCAAG
 TACACCCCTGTGTGGACAAGGGCGATAGGAAATTTCCCTGTTCTCTGCAAACGATCCTTTGAGAAGC
 GGGACCGCTTCGGATCCACATTCTTATGTTTATGAGAAGCACCAGCCTCACAAGTGTCTACATGTGG
 GAAATGTTTCTCTCAGTCTTCCAGCCTAAACAAACACATGCGAGTCCACTCTGGAGACAGACCATAACAG
 TGTGTGTATTGTACTAAGAGTTTACAGCCTCCAGCATACTCCGCACACACATCAGGCAGCACTCCGGGG
 AGAAGCCCTTCAAATGCAAGTACTGTGGTAAATCTTTGCATCCCATGCTGCCATGACAGCCATGTCCG
 GCGTTCACACAAGGAGGACGATGGCTGCTCATGCAGCATCTGTGGGAAAATCTTCTCAGATCAAGAAACA
 TTCTACTCCACATGAAGTTTCATGAAGACTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208569 representing NM_024504
 Red=Cloning site Green=Tags(s)

MALPRPSEAVPQDKVCYPPPESSPQNLAAYYTPFPSYGHYRNSLATVEEDFQFRQLEAAASAAPAMPPFP
 FRMAPPLLSPLGLQREPLYDLWPYSKLPPWYP.IPHVPREVPPFLSSSHEYAGASSEDLGHQIIGGDNES
 GPCCGPDTLIPPPPADASLLPEGLRTSLLPCSPSKQSEDPKPSNQEGKSPARFQFTEEDLHFVLYGVT
 PSLEHPASLHHAISGLLVPPDSSGSDSLPQTLDEDSLQLEGLCLMQTVFGEVPHFVGFSSFIAGKVRV
 GPFQGVVNASEVKTYGDNVSMWEIFEDGHLSHFIDGKGGTGNWMSYVNCARFPKQNLVAVQCQGHIFY
 ESCKEIHQNQELLVWYGDCYEKFLDIPVSLQVTEPGKQPSGPSEESAEGYRCERCCKVFTYKYRDKHLK
 YTPCVDKGRKFPKSLCKRSFEKRDRLRIHILHVHEKHPKHCSTCGKCFSQSSSLNKHMRVHSGDRPYQ
 CVYCTKRFTASSILRTHIRQHSGEKPFKCYCGKSFASHAAHDSHVRRSHKEDDGCSCSICGKIFSDQET
 FYSHMKFHEDY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024504

ORF Size: 1713 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_024504.2](#), [NP_078780.1](#)

RefSeq Size: 2221 bp

RefSeq ORF: 1716 bp

Locus ID: 63978

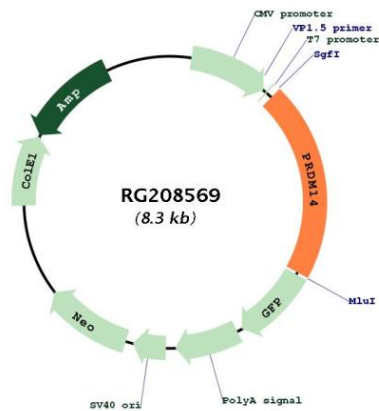
UniProt ID: [Q9GZV8](#)

Cytogenetics: 8q13.3

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the PRDI-BF1 and RIZ homology domain containing (PRDM) family of transcriptional regulators. The encoded protein may possess histone methyltransferase activity and plays a critical role in cell pluripotency by suppressing the expression of differentiation marker genes. Expression of this gene may play a role in breast cancer. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG208569