

## Product datasheet for **RG239044**

### PRDM5 (NM\_001300823) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM5 (NM_001300823) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRDM5
Synonyms:	BCS2; PFM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239044 representing NM\_001300823.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGGGCATGTACGTGCCGGACAGGTTCTCCCTGAAGTCTCCCGGGTTCAGGACGGCATGGGGCTC
TACACGGCCCGCAGAGTGCAGAAAGGGTAAAAGTTCGGACCCCTTCTGGAGAGAAGAGAATGCCTGAA
GACTTGGATGAAAATATGGATTACAGGTTGATGTGGGAGGTTCTGGGAGTAAGGGAGAAGTTTTGTAC
ATTTTGGATGCTACCAACCCACGGCACTCCAACCTGGCTTCGCTTCATGAGGACCATCTCAGGAG
CAGAAGAAGTTGGCTGCCATTCAAGAAGGAGAAAAATTTTCTATTTGGCAGTTGAAGATATAGAAAACA
GACACGGAGCTTCTGATTGGCTACCTGGATAGTGACATGGAGGCTGAGGAGGAAGAACAGCAAATATG
ACAGTCATCAAAGAAGGGGAAGTTGAAAATCTAGAAGACAATCAACAGCGGGCAGAAAAGATCGCCTT
GGCTGTAAAGAGGACTATGCTTGTCTCAATGTGAATCGAGTTTACCAGTGAGGATATTCTTGCTGAG
CATCTCCAGACATTGCACCAGAAACCCACAGAGGAGAAAGATTTAAGTGAAGAACTGTGGGAAGAAA
TTCCAGTTAAGCAGGCTTTCGAAAGACATTTTGAAGCAGCACCAGGAGACTTGCCTGGGGGATGCCAGG
TTTGTGTGCAAGGCTGACAGCTGTGAAAGAGGCTGAAGAGCAAGGATGCCCTGAAAAGACACCAGGAA
AATGTCCACACTGGAGATCCTAAGAAAAAGCTTATATGTTCAAGTGTGCAATAAAAAGTGTCTTTCAGCA
TCAAGCCTACAGGAACATAGAAAAGATTCATGAGATATTTGATTGTCAAGAATGTATGAAGAAATTTATT
TCAGCTAATCAGCTAAAACGTCATATGATCACCCACTCAGAAAAACGACCTATAATTGCGAGATTTGT
AATAAGTCTTTCAAGAGGCTTGATCAAGTGGGTGCTCACAAAGTAAACACAGCGAAGACAAACCTTAC
AAATGCAAACCTTTGTGAAAGGGATTTGCCACAGAAATGTTTACAAGAATCATAAGAAGACCCACTCT
GAGGAGAGACCGTTCCAATGTGAAGAATGTAAGCTTTGTTCCGGACCCATTTCTTTACAGAGACAC
CTGCTAATACATAACAGTGAGAGGACTTCAAGTGCCATCACTGCGATGCTACCTTAAGAGGAAGAT
ACATTAATGTTTCAATGTCCAGGTGTTTCAAGAAAGACACAAGAAGTATAGGTGTGAGCTATGTAATAAG
GCCTTTGTTACACCTTCAAGTGTGTTAGAAGTCAAGAAAAACACATACAGGAGAAAAGGAGAAAATCTGT
CCATATTTGGCCAGAAAATTTGCCAGCAGTGGTACACTCAGAGTTCATATCCGGAGCCACACAGGTGAG
CGTCCCTATCAATGTCTTACTGTGAAAAGGATTCAGTAAAAATGATGGACTGAAGATGCACATTCGT
ACTCACACCAGGGAGAAGCCGTACAAGTGTCTCAGAGTGCAGCAAGGCCTTCAGCCAGAAGCGAGGCTG
GATGAGCACAAGAGGACGCACACTGGAGAAAAGCCTTTTTCAGTGTGATGTTTGTGATTTGGCTTTTACG
CTGAAGAAAATGCTGATTCGACACAAGATGACTCATAATCCCAATCGTCCCTGGCAGAATGCCAGTTT
TGCCATAAGAAGTTTACAAGGAATGACTACCTCAAAGTGCACATGGACAATATCCATGGTGTAGCTGAC
AGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG239044  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLGMYVDRFLSKSSRVQDGMGLYTARRVRKGEKFGPFAGEKRPEDLDENMDYRLMWEVRSKGEVLY
ILDATNPRHSNWLRFVHEAPSQEQLNLAIQEGENIFYLAVEDIETDELLIGYLDSDMEAEQEQIM
TVIKEGEVENSRRQSTAGRKDRLGCKEDYACPQCESSFTSEDILAHLQTLHQKPTTEEKFKCKNGGK
FPVKQALQRHFEHQHETCRGDARFVCKADSCGKRLKSKDALKRHQENVHTGDPKPKLICSVCNKKCSSA
SSLQEHRIHEIFDCQECMKKFI SANQLKRHMITHSEKRPYNCEICNKSFKRLDQVGAHKVIHSEDKPY
KCKLCGKGF AHRNVYKNHKKTHSEERPFQCECKALFRTPFLQRHLLIHNsertFKCHCDATFRKRD
TLNVHVQVVHERHKKYRCEL CNKAFVTPSVLRSHKKTHTGEKEKICPYCGQKFASSGTLRVHIRSHTGE
RPYQCPYCEKGF SKNDGLKMHIRTHTREKPYKCECSKAFSQKRGLDEHKRTHTEKPFQCDVCDLAFS
LKMLIRHKMTHNPNRPLAECQFCHKKFRNDYLVHMDNIHGVADS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001300823

**ORF Size:** 1797 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).

**RefSeq:** [NM\\_001300823.2](#)

**RefSeq Size:** 5256 bp

**RefSeq ORF:** 1800 bp

**Locus ID:** 11107

**UniProt ID:** [Q9NQX1](#)

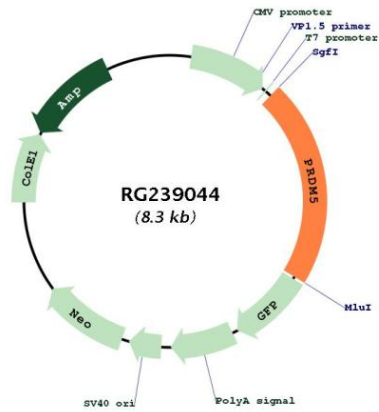
**Cytogenetics:** 4q27

**Protein Families:** Transcription Factors

**MW:** 70.3 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG239044