

## Product datasheet for **RG209584**

### PRMT10 (PRMT9) (NM\_138364) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT10 (PRMT9) (NM_138364) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT10
Synonyms:	PRMT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG209584 representing NM\_138364  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCGAACTCGCGGCCAGGTCCCGCCGAGACGCCGGGGTGGCGCTGGGGCAGCCGGCCGGGACGAGC  
TGGTGTGCGGGTCTTGCAGAGCCGAGAGCACTGTCTGGGCGTCCAGGACTTCGGCACTGCCTATGCCCA  
CTACCTCCTCGTCTCAGCCTGGCGCCGGAGCTGAAACACGACGTGAAGGAAACTTTTCAGTACACACTT  
TTCAGATGGGCTGAAGAGCTTGATGCTCTCAGTCGGATACAAGACTTACTTGGTTGCTATGAGCAGGCC  
TGGAACTGTTTCTGATGATGAAGTATTTGCAATAGTATGGGGGAGCATCTCTCAGAATGGGCTTTAG  
GGATGAAGCAGCTGGGTATTTTCATAAAGCAGTGAAGCTAAACCCTGATTTTCAGTGATGCAAAGGAGAAT  
TTTTATCGTGTTCGAACTGGTTGGTGAACGCTGGCACTTTATCATGCTTAATGACACCAAGAGGAATA  
CAATTTATAATGCAGCAATCCAAAAGGCAGTTTGGTTGGGGTCCAAAAGTGTGGACATTGGAGCAGG  
AACTGGAATACTAAGCATGTTTGTAAAAAGCTGGAGCACATTCGGTGTATGCCTGTGAGTTATCCAAG  
ACCATGTATGAACTTGCCTGTGATGTGCTGGCAGCAAACAAGATGGAAGCAGGGATCAAACCTTACATA  
CGAAGTCACTTGACATAGAGATTCCAAAACATATTCGCCGAAAGAGTGTCCCTAGTTGTAACAGAACTGT  
CGATGCAGGTTTTATTTGGAGAAGGAATTGTGGAGAGTTTGATTTCATGCATGGGAGCATTTACTTTTACAG  
CCAAAGACCAAAGGTGAAAGTGCTAATTGTGAAAAGTATGGGAAAGTTATACCAGCAAGTGTGTTATAT  
TTGGGATGGCAGTAGAATGTGCAGAGATAAGAAGACATCATAGAGTGGGTATTAAGGACATTGCTGGTAT  
CCATTTGCCAACAAAATGTGAAATTTTCAGAGTCCGGCTTATTCTTCTGTAGATACTGAAGAAAATTTGAA  
CCTTATACAACTGAAAAGATGAGTCGAGTTCCTGGAGGATATTTGGCTTTGACAGAGTGTCTTGAATTA  
TGACAGTAGATTTCAACAACCTTCAGGAATTAAGAGTCTTGAACATAAAAGCCTGATAAGATGGTAT  
TCCTGTTATTAAGAAGGCATACTAGATGCTATTATGGTTTGGTTGTGCTCCAGCTTGATGATGAACAT  
AGTTTATCCACAAGTCTAGTGAGGAAACATGTTGGGAACAGGCTGTCTACCCCGTACAGGACCTTGACAG  
ACTACTGGATAAAGCCTGGAGACCATGTGATGATGGAAGTATCTTGTCAAGACTGTTACTTAAGAATCCA  
GAGTATTAGTGTCTTGGGTTTGGAAATGTGAAATGGATGTTGCAAAAAGTTTTACCAGAATAAAGACTTG  
TTATCGTTAGGAAATGAGGCTGAACTTTGTAGTGCCCTCGCTAACCTTCAGACCAGTAAACCAGATGCTG  
TAGAGCAGACATGTATATTGGAATCTACAGAAATGCTTTGCTTAAACAACATCCCATATCATGAAGGCTT  
TAAATGGCAATGAGCAAAGTTTGTCTTCACTGACTCCAGAGAACTGTATCAGACCATGGATACTCAC  
TGTCAGAATGAGATGAGCTCTGGAAGTGGACAGAGTAATACTGTACAGAACATCCTTGAACCTTTCTACG  
TGTTAGATGTGTCGAAGGCTTCTCTGTTCTGCCTGTTATTGCTGGCACACTTGGGCAGGTTAAACCATA  
CAGTTCTGTGGAGAAAGACCAGCATCGTATTGCTCTGGACCTCATATCTGAAGCCAACTTTTCCTAAA  
GAAACACTTGAGTTTTGGCTGAGACATGTGGAGGATGAATCTGCTATGTTACAAAGGCCAAAATCAGACA  
AGTTATGGAGCATAAATTATTGGATGTCATTGAGCCATCTGGGCTCATTGAGCAGGAAAATGGAAGAAA  
AGCTGCAATATCCAGGTGTTTACTACAATCTGGAGGCAAGATCTTTCCTCAGTATGTGCTGATGTTGGG  
TTGCTTGTGGAATCACAGACACTCCTAGAGGAGAATGCTGTTCAAGGAACAGAACGTAATCTTGGATTAA  
ATATAGCACCTTTTAAACAGTTTCAGGTACCTATACGTGATTTTGGACCTATCCTCATTGCCCTG  
TATACCTTTAAGCAAGCCAGTGGAACTCTTAAGACTAGATTTAATGACTCCGATTTTGAACACCTCTAAC  
AGAGAAGTAAAGGTATACGTTTGTAAATCTGGAAGACTGACTGCTATTCCATTTTGGTATCATATGTACC  
TTGATGAAGAGATTAGGTTGGATCTTCAAGTGAAGCCTCCCACTGGAAACAAGCTGCAGTTGTTTTAGA  
TAATCCCATCCAGGTTGAAATGGGAGAGGAACTTGTACTCAGCATTACAGCATCACAAAAGCAATGTCAGC  
ATCACAGTAAAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG209584 representing NM\_138364  
Red=Cloning site Green=Tags(s)

MSNSRPRSRRDAGGGAGAAGRDELVSRSLQSAEHCLGVQDFGTAYAHYLLVLSLAPELKHDVKETFQYTL  
FRWAEELDALSRIQDLLGCYEQALELFPDDEVICNSMGEHLFRMGFRDEAAGYFHKAVKLNPDFSDAKEN  
FYRVANWLVERWHFIMLNDTKRNTIYNAAIQKAVCLGSKSVLDIGAGTGILSMFAKKAGAHSVYACELSK  
TMYELACDVVAANKMEAGIKLLHTKSLDIEIPKHIPERVSLVVTETVDAGLFGEGIVESLIHAWHELLLQ  
PKTKGESANCEKYGKVIPASAVIFGMAVECAEIRRHRVGIKDIAGIHLPTNVKFQSPAYSSVDTEETIE  
PYTTEKMSRVPGGYLALTECFEIMTVDFNNLQELKSLATKPKDKIGIPVIKEGILDAIMVWVFLQLDDEH  
SLSTSPSEETCWEQAVYPVQDLADYWIKPGDHVMEVSCQDCYLRIQSI SVLGLECEMDVAKSFTQNKDL  
LSLGNEAELCSALANLQTSKPDAVEQTCILESTEIALLNNIPYHEGFKMAMSKVLSLTPPEKLYQTMETH  
CQNESSGTGQSNVQNI LEPFYVLDVSEGF SVLPVIAGTLGQVKPYSSVEKDQHRIALDLISEANHFPK  
ETLEFWRHVEDESAMLQRPKSDKLWSIIILDVIEPSGLIQQEIMEKAAISRCLLQSGGKIFPQYVLMFG  
LLVESQTLLEENAVQGTERTLGLNIAPFINQFQVPIRVFLDLSSLPCIPLSKPVELLRLDLMTPLYLNTSN  
REVKVYVCKSGRLTAIPFWYHMYLDEEIRLDTSSSEASHWKQAAVVLDPNIQVEMGEELVLSIQHHKSNVS  
ITVKQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_138364

ORF Size: 2535 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\\_138364.4](#)

**RefSeq Size:** 2842 bp

**RefSeq ORF:** 2538 bp

**Locus ID:** 90826

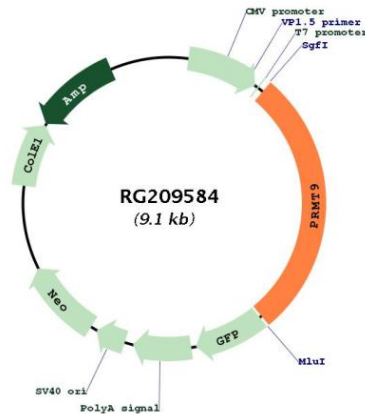
**UniProt ID:** [Q6P2P2](#)

**Cytogenetics:** 4q31.23

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a type II methyltransferase. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from S-adenosyl-L-methionine to the guanidino nitrogen atoms of arginine. The protein encoded by this gene methylates spliceosome associated protein 145 to regulate alternative splicing and acts as a modulator of small nuclear ribonucleoprotein maturation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2017]

**Product images:**



Circular map for RG209584