

Product datasheet for **MG215824**

Prmt9 (NM_001081240) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prmt9 (NM_001081240) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prmt9
Synonyms:	A1931714; Prmt10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215824 representing NM_001081240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAACCTCGAGGCCAGGCCCGCCGGGGCGCCGGGGTGGCGCAGGTGCGGCCGGCCGGGACCGGC
 TGGTGGCACGGTCTTGCAGAGTCTGAGCACTGTCTAGGTGACCAGGACTTCGGCACTGCTTATGCCCA
 TTACCTTCTGGTCTCAGCCTGGCGCCAGAGCTAAAAGACGACGTGAAGGAAACTTTTCAGTATACTT
 TTCAAGTGGGCTGAAGAGCTTCATGCACTGAGCCGAATACAAGACTTACTTGGTTGCTATGAGCAGGCC
 TGGAGCTGTTTCTGATGATGAAGTATTTGCAACAGTATGGGAGACACCTCTCAGAATGGGCTTTTCG
 AGATGAGGCAGCTGGCTATTTTCAAAAGCAGTGAAGCTAAACCCTGATTTCAATGATGCAAAGGAGAAC
 TTTTACCCGCTAGCAAAGCTGGCTGGTGGAGCGCTGGCACTTCATCATGCTTAATGACACCAGGAGAAACA
 TGGTTTATAATGCAGCAATCCAGAAGGCAGTGTCCCTGGGCTCCAGAACCCTTCTGGATATCGGCACGGG
 GACTGGAATACTGAGCATGTTTGTAAAAAGCTGGCGACAATCAGTATATGCCTGTGAATTATCCAAG
 ACCATGTATGAACTCGCCTGTGATGTAGTGGCTGCAAACAAGATGGAAAATGGGATAAAGCTTCTACATA
 TGAAGTCACTTGATATAGAAATCCGAAGCACATTCTGAAAGAGTGTCCCTAGTTGTAACAGAAACTGT
 CGATGCAGGTGATTTGGAGAAGGAATTGTGGAGAGTTTAATTCATGCATGGGAACATTTACTTCTGCAA
 CCAAAGACCAAAGAAGAAAATGGAAATTCGGGGAAGTATGGGAAAGTATACCAGCCGGTGTGTTATAT
 TTGGGATGGCAGTCGAGTGTGCAGAGATACGAAGGCATCATAGGGTTGGTGTAAAGGACATTGCTGGTAT
 ACATTTACCAACAAATGTGAAATTTAGAGCCAGCCTATACTTCTGTTGATACAGAAGAAACAGTTGAA
 CCCTACACAAGTAAAAGATGAGTGGCATCCCCGGAGGATACCTGCCTTGACGGAGTGTCTTCAGATTA
 TGAAAGTTGATTTCAATAATCTTCAGAAATTAAGAAAGTCTTGAACATAAGAAGCCACACTCTCTTAATGT
 TCCTGCTATTAAGAAGCGGTGCTAGATGCTATTATGGTTTGGTTTGTCTCCAGCTTGATGATGAATAC
 AGCTTGTCCACAAGTCTAGTGAAGAACTGTTGGGAACAGGCTGTTTATCCAGTACAGGCCCTTGAAG
 ACTACTGCATACAGCCTGGTGAAGGAGTACAATGGAGGCATCTTGTACGATTGTTACCTAAGAATCCA
 GGGGATCAGTATCTTGCATTTGGAACATGAAATGGAAAGTATGAAAGGTTTTACCAAGAGTAAAGACTTG
 CTTTCTCTAGGAAATGAAGCTGAACTCTGTAGTGTCTGGCTAACCTTCCAGACCAGTACAGCAGAAGCCC
 TGGAGCAGACTTGTATGTTAGAGCCACAGAGATTGCTTTGCTTAATAACATTCCGTATCATGAAGGCTT
 TAAGACAGCGATGAGGAAGGTGTTGTCTTCACTGGCCCCAGAGCTGCTGTGCAGCCATGGATACTCAC
 TGTCAGTACATGGAGATGAACTCTGGGAGTGGACAGAGTATGCTGCACCAAGCACCGCTGACCCTTCT
 ATGTGCTCGATGTGTCTGAAGGCTTCTCTTTTTGCCTATACTTCCCGGAACACTTGGTCATGTTAAACC
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 AAGGAAACACTTGAGTTTTGGTGCACATATAGAGGATGAAGCTGCTGTGTTGCAAAGGCCAAATCAG
 ACAAATTTGGGAGCATAATTATACTAGATGTCATTGAGCCATCTGGGCTTATCCAGCAGGAGCTGATGGA
 AAAGGCTGCAATATCCAGATGTTATTGCACTCTGGAGGCAAGATCTTCCACAGTATGTGCTGATGTTT
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 TAAACATAGCACCTTTTATAACCAAGTTTCAGGTGCCTATCCGGGTATGTCTGGATTTATCTTCTTGGC
 ATGTGTCCTTTAAGCCAACCAAGTGGAGCTGTTGAGGTTGGATCTGATGACTCCATATTTGAACACTTCC
 AATAAAGAAGTAAAGGTCGGTGTGTGCAGGTCTGGTTCGAGTGAAGGCTGTTCCATTTGGTTTCATCTGT
 GCCTGGATGACGAGGTGAGGCTGGACACCTCAGGTGAAGCCTCCCACTGGAAACAAGCTGCAAGTGTCT
 GGATAATCCCATCCAAGTACAAGCGGGAGAGGAGCTTGTGCTCAGCGTTGAGCATCACAAAAGCAACGTC
 AGCATCGCAGTGAAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215824 representing NM_001081240
Red=Cloning site Green=Tags(s)

MPNSRPRRRGAGGGAGAAGRDRLVARSLSAEHCLGDQDFGTAYAHYLLVLSLAPELKDDVKETFQYTL
FKWAEELHALSRIQDLLGCYEQALELFPDDEVICNSMGEHLFRMGFRDEAAGYFHKAVKLNPDFNDAKEN
FYRVANWLVERWHFIMLNDTRRNMYNAAIQKAVCLGSRTVLDIGTGTGILSMFAKKAGAQSIVYACELSK
TMYELACDVVAANKMENGIKLLHMKSLDIEIPKHIPERVSLVVTETVDAGVFGEGIVESLIHAWHELLLQ
PKTKEENGNGCGYGVIPAGAVIFGMAVECAEIRRHRVGAKEIAGIHLPTNVKQSPAYTSVDTEETVE
PYTTEKMSGIPGGYLPLTECFQIMKVDFNNLQELKSLATKKPHSLNVPAIKEGVLDAIMVWVFLQLDDEY
SLSTSPSEETCWEQAVYPVQALEDYCIQPGDRVTMEASCHDCYLRIQGISILHLEHEMEVMKGFTKSKDL
LSLGNEAELCSALANLQTSRPEALEQTCMLEPTEIALLNNIPYHEGFKTAMRKVLSLAPELLWQPMETH
CQYMEMNSGSGQSDAAPSTADPFYVLDVSEGFSLLPILAGTLGHVKPYSSVEKDQHCIALDLIAEANHFP
KETLEFWLRHIEDEAAVLQRPKSDKLWSIIILDVIEPSGLIQQELMEKAAISRCLLQSGGKIFPQYVLMF
GMLVESQTLVEESAVQGEHTLGLNIAPFINQFQVPIRVCLDLSSLPCVPLSQPVELLRLDLMPYLNLS
NKEVKVRVCRSGRVTAVPFWFHLCDDDEVRLDTSGEASHWKQAAVVLDNPIQVQAGEELVLSVEHHKSNV
SIAVKP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001081240

ORF Size: 2538 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_001081240.3](#), [NP_001074709.1](#)

RefSeq Size: 2781 bp

RefSeq ORF: 2541 bp

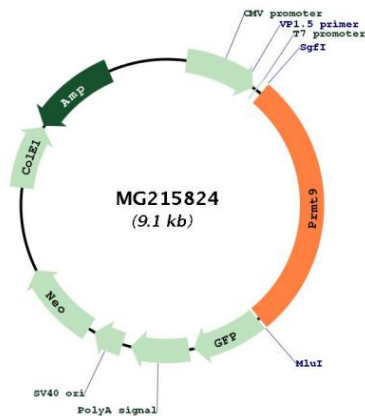
Locus ID: 102182

UniProt ID: [Q3U3W5](#)

Cytogenetics: 8 C1

Gene Summary: Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA). Specifically mediates the symmetrical dimethylation of SF3B2. Involved in the regulation of alternative splicing of pre-mRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215824