

Product datasheet for **MR215824**

Prmt9 (NM_001081240) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prmt9 (NM_001081240) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prmt9
Synonyms:	A1931714; Prmt10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR215824 representing NM_001081240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAACTCGAGGCCAGGCCCGCCGGGGCGCCGGGGTGGCGCAGGTGCGGCCGGCCGGGACCGGC
 TGGTGGCACGGTCTTGCAGAGTCTGAGCACTGTCTAGGTGACCAGGACTTCGGCACTGCTTATGCCCA
 TTACCTTCTGGTCTCAGCCTGGCGCCAGAGCTAAAAGACGACGTGAAGGAAACTTTTCAGTATACTT
 TTCAAGTGGGCTGAAGAGCTTCATGCACTGAGCCGAATACAAGACTTACTTGGTTGCTATGAGCAGGCC
 TGGAGCTGTTTCTGATGATGAAGTATTTGCAACAGTATGGGAGACACCTCTCAGAATGGGCTTTCCG
 AGATGAGGCAGCTGGCTATTTTCAAAAGCAGTGAAGCTAAACCCTGATTTCAATGATGCAAAGGAGAAC
 TTTTACCCGCTAGCAAAGCTGGCTGGTGGAGCGCTGGCACTTCATCATGCTTAATGACACCAGGAGAAACA
 TGGTTTATAATGCAGCAATCCAGAAGGCAGTGTCCCTGGGCTCCAGAACCCTTCTGGATATCGGCACGGG
 GACTGGAATACTGAGCATGTTTGTAAAAAGCTGGCGACAATCAGTATATGCCTGTGAATTATCCAAG
 ACCATGTATGAACTCGCCTGTGATGTAGTGGCTGCAAACAAGATGGAAAATGGGATAAAGCTTCTACATA
 TGAAGTCACTTGATATAGAAATCCGAAGCACATTCTGAAAGAGTGTCCCTAGTTGTAACAGAAACTGT
 CGATGCAGGTGATTTGGAGAAGGAATTGTGGAGAGTTTAATTCATGCATGGGAACATTTACTTCTGCAA
 CCAAAGACCAAAGAAGAAAATGGAAATTCGGGGAAGTATGGGAAAGTATACCAGCCGGTCTGTTATAT
 TTGGGATGGCAGTCGAGTGTGCAGAGATACGAAGGCATCATAGGGTTGGTGTCTAAGGACATTGCTGGTAT
 ACATTTACCAACAAATGTGAAATTTAGAGCCAGCCTATACTTCTGTTGATACAGAAGAAACAGTTGAA
 CCCTACACAAGTAAAAGATGAGTGGCATCCCCGGAGGATACCTGCCTTGACGGAGTGTCTTCAGATTA
 TGAAGTTGATTTCAATAATCTTCAGAAATTAAGAAAGTCTTGAACATAAGAAGCCACACTCTCTTAATGT
 TCCTGCTATTAAGAAGCGTGTCTAGATGCTATTATGGTTTGGTTTGTCTCCAGCTTGATGATGAATAC
 AGCTTGTCCACAAGTCTAGTGAAGAACTGTTGGGAACAGGCTGTTTATCCAGTACAGGCCCTTGAAG
 ACTACTGCATACAGCCTGGTGAAGGAGTACAATGGAGGCATCTTGTACGATTGTTACCTAAGAATCCA
 GGGGATCAGTATCTTGCATTTGGAACATGAAATGGAAAGTATGAAAGGTTTTACCAAGAGTAAAGACTTG
 CTTTCTCTAGGAAATGAAGCTGAACTCTGTAGTCTCTGGCTAACCTTCCAGACCAGTACAGCAGAAGCCC
 TGGAGCAGACTTGTATGTTAGAGCCACAGAGATTGCTTTGCTTAATAACATTCCGTATCATGAAGGCTT
 TAAGACAGCGATGAGGAAGGTGTTGTCTCACTGGCCCCAGAGCTGCTGTGCAGCCATGGATACTCAC
 TGTCAGTACATGGAGATGAACTCTGGGAGTGGACAGAGTATGCTGCACCAAGCACCGCTGACCCTTCT
 ATGTGCTCGATGTGTCTGAAGGCTTCTCTTTTTGCCTATACTTCCCGAACACTTGGTCATGTTAAACC
 CTACAGTTCAGTGGAGAAAGACCAGCATTGTATCGCTTTGGACCTCATAGCTGAAGCCAACCACTTCCCT
 AAGGAAACACTTGAGTTTTGGTGCACATATAGAGGATGAAGCTGCTGTGTTGCAAAGGCCAAATCAG
 ACAAAATTTGGAGCATAATTATACTAGATGTCATTGAGCCATCTGGGCTTATCCAGCAGGAGCTGATGGA
 AAAGGCTGCAATATCCAGATGTTTATTGCAGTCTGGAGGCAAGATCTCCACAGTATGTGCTGATGTTT
 GGGATGCTTGTGGAGTCCCAGACGCTGGTAGAAGAGAGTCCGGTCAAGGGACAGAACATACTCTTGGGC
 TAAACATAGCACCTTTTATAACCAAGTTTCAGGTGCCTATCCGGGTATGTCTGGATTTATCTTCTTGGC
 ATGTGTCCTTTAAGCCAACCAAGTGGAGCTGTTGAGGTTGGATCTGATGACTCCATATTTGAACACTTCC
 AATAAAGAAGTAAAGGTCGGTGTGCAGGTCTGGTTCGAGTGAAGGCTGTTCCATTTGGTTTCATCTGT
 GCCTGGATGACGAGGTGAGGCTGGACACCTCAGGTGAAGCCTCCCACTGGAAACAAGCTGCAAGTGTCT
 GGATAATCCCATCCAAGTACAAGCGGGAGAGGAGCTTGTGCTCAGCGTTGAGCATCACAAAAGCAACGTC
 AGCATCGCAGTGAAGCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215824 representing NM_001081240
 Red=Cloning site Green=Tags(s)

MPNSRPRRRGAGGGAGAAGRDRLVARSLQSAEHCLGDQDFGTAYAHYLLVLSLAPELKDDVKETFQYTL
 FKWAEELHALSRIQDLLGCYEQALELFPDDEVICNSMGEHLFRMGFRDEAAGYFHKAVKLNPDFNDAKEN
 FYRVANWLVERWHFIMLNDTRRNMYNAAIQKAVCLGSRTVLDIGTGTGILSMFAKKAGAQSUYACELSK
 TMYELACDVVAANKMENGIKLLHMKSLDIEIPKHIPERSLVVTETVDAGVFGEGIVESLIHAWHELLLQ
 PKTKEENGNGCGKYGVIPAGAVIFGMAVECAEIRRHRVGAKDIAGIHLPTNVKFSPAYTSVDTEETVE
 PYTTEKMSGIPGGYLPLTECFQIMKVDNFNLQELKSLATKPPHSLNVPAPKEGVLDAIMVWVFLQLDDEY
 SLSTSPSEETCWEQAVYPVQALEDYCIQPGDRVTMEASCHDCYLRIQGISILHLEHEMEMVKGFTKSKDL
 LSLGNEAELCSALANLQTSRPEALEQTCMLEPTEIALLNIPYHEGFKTAMRKVLSLAPELLWQPMETH
 CQYMEMNSGSGQSDAAPSTADPFYVLDVSEGFSLLPILAGTLGHVKPYSSVEKDQHCIALDLIAEANHFP
 KETLEFWLRHIEDEAAVLQRPKSDKLWSIIILDVIEPSGLIQQELMEKAATSRCLLQSGGKIFPQYVLMF
 GMLVESQTLVEESAVQGTHTLGLNIAPFINQFQVPIRVCLDLSLPCVPLSQPVELLRLDLMTPLYNTS
 NKEVKVRVCRSGRVTAVPFWFHLCDDDEVRLDTSGEASHWKQAAVVLDNPIQVQAGEELVLSVEHHKSNV
 SIAVKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9049_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

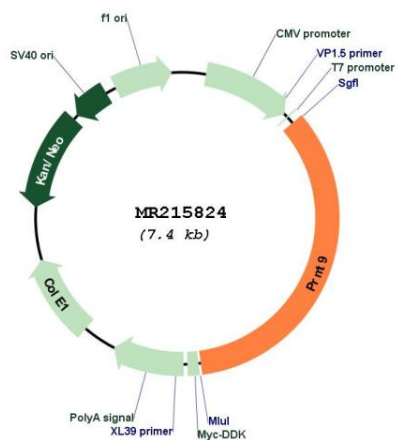
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:	<ol style="list-style-type: none">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
MW:	94.7 kDa
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 MR215824