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Product datasheet for RC209584

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:	Myc-DDK
Symbol:	PRMT10
Synonyms:	PRMT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC209584 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAACTCGCGGCCCAGGTCCCGCCGAGACGCCGGGGGTGGCGCTGGGGCAGCCGGCCGGGACGAGC
TGGTGTCGCGGTCCTTGCAGAGCGCAGAGCACTGTCTGGGCGTCCAGGACTTCGGCACTGCCTATGCCCA
CTACCTCCTCGTGCTCAGCCTGGCGCCGGAGCTGAAACACGACGTGAAGGAAACTTTTCAGTACACACTT
TTCAGATGGGCTGAAGAGCTTGATGCTCTCAGTCGGATACAAGACTTACTTGGTTGCTATGAGCAGGCCT
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GGATGAAGCAGCTGGGTATTTTCATAAAGCAGTGAAGCTAAACCCTGATTTCAGTGATGCAAAGGAGAAT
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AACTGGAATACTAAGCATGTTTGCTAAAAAAGCTGGAGCACATTCCGTGTATGCCTGTGAGTTATCCAAG
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TGTCAGAATGAGATGAGCTCTGGAACTGGACAGAGTAATACTGTACAGAACATCCTTGAACCTTTCTACG
TGTTAGATGTGTCCGAAGGCTTCTCTGTTCTGCCTGTTATTGCTGGCACACTTGGGCAGGTTAAACCATA
CAGTTCTGTGGAGAAAGACCAGCATCGTATTGCTCTGGACCTCATATCTGAAGCCAATCACTTTCCTAAA
GAAACACTTGAGTTTTGGCTGAGACATGTGGAGGATGAATCTGCTATGTTACAAAGGCCAAAATCAGACA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209584 protein sequence
Red=Cloning site Green=Tags(s)

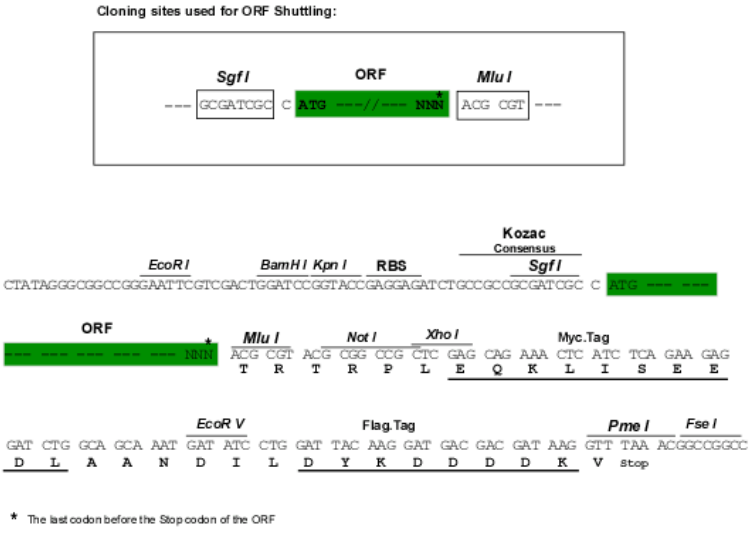
MSNSRPRSRRDAGGGAGAAGRDELVSRSLQSAEHCLGVQDFGTAYAHYLLVLSLAPELKHDVKETFQYTL
FRWAEELDALSRIQDLLGCYEQALELFPDDEVICNSMGEHLFRMGFRDEAAGYFHKAVKLNPDFSDAKEN
FYRVANWLVERWHFIMLNDTKRNTIYNAAIQKAVCLGSKSVLDIGAGTGILSMFAKKAGAHSVYACELSK
TMYELACDVVAANKMEAGIKLLHTKSLDIEIPKHIPERVSLVVTETVDAGLFGEGIVESLIHAWEHLLLQ
PKTKGESANCEKYGKVIPASAVIFGMAVECAEIRRHHRVGIKDIAGIHLPTNVKFQSPAYSSVDTEETIE
PYTTEKMSRVPGGYLALTECFEIMTVDFNNLQELKSLATKKPDKIGIPVIKEGILDAIMVWFVLQLDDEH
SLSTSPSEETCWEQAVYPVQDLADYWIKPGDHVMMEVSCQDCYLRIQSISVLGLECEMDVAKSFTQNKDL
LSLGNEAELCSALANLQTSKPDAVEQTCILESTEIALLNNIPYHEGFKMAMSKVLSSLTPEKLYQTMDTH
CQNEMSSGTGQSNTVQNILEPFYVLDVSEGFSVLPVIAGTLGQVKPYSSVEKDQHRIALDLISEANHFPK
ETLEFWLRHVEDESAMLQRPKSDKLWSIIILDVIEPSGLIQQEIMEKAAISRCLLQSGGKIFPQYVLMFG
LLVESQTLLEENAVQGTERTLGLNIAPFINQFQVPIRVFLDLSSLPCIPLSKPVELLRLDLMTPYLNTSN
REVKVYVCKSGRLTAIPFWYHMYLDEEIRLDTSSEASHWKQAAVVLDNPIQVEMGEELVLSIQHHKSNVS
ITVKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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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
MW:	94.5 kDa
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]

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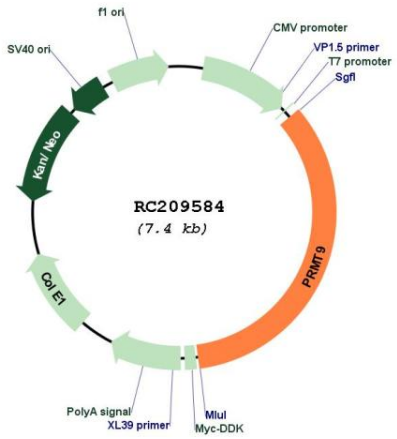
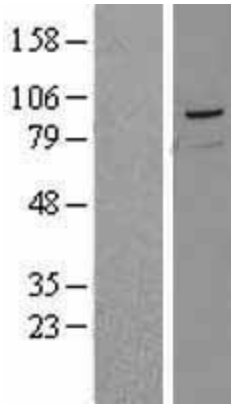
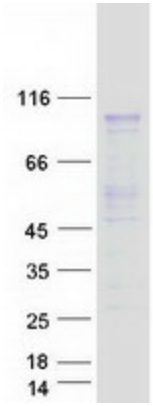
Product images:



Circular map for RC209584



Western blot validation of overexpression lysate (Cat# [LY408635]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209584 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRMT9 protein (Cat# [TP309584]). The protein was produced from HEK293T cells transfected with PRMT9 cDNA clone (Cat# RC209584) using MegaTran 2.0 (Cat# [TT210002]).

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