

Product datasheet for **RC200461**

PRMT2 (NM_206962) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	PRMT2
Synonyms:	HRMT1L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200461 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACATCAGGTGACTGTCCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTGCACTGAGGCGG
GTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTTGTGGCCATCGCGGACTACGCTGCCACCGATGAGAC
CCAGCTCAGTTTTTTGAGAGGAGAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGGT
GAGCGTGCGGGCTGCTGTGGGTACATTCGGCAAACCATGTGGGAAGCACGTGGATGAGTACGACCCCG
AGGACAGTGGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTGAACTCCACTTGGAGATGTTGGC
AGACCAGCCACGAACAATAATACCACAGTGTATCCTGCAGAATAAAGAATCCCTGACGGATAAAGTC
ATCCTGGACGTGGGCTGTGGGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCTAGAGCGG
TGACGCGGTGGAGGCCAGTGAGATGGCACAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGA
CATCATCACCGTGTACCAGCAGAAGGTGGAGGATGTGGTCTGCCGAGAAGGTGGACGTGCTGGTGTCT
GAGTGGATGGGGACCTGCCTGCTGTTTGAGTTCATGATCGAGTCCATCCTGTATGCCCGGGATGCCTGGC
TGAAGGAGGACGGGGTCATTTGGCCACCATGGCTGCGTTGCACCTTGCCCTGCAGTGTCTGATAAGGA
TTATCGTAGCAAGGTGCTCTTCTGGGACAACGCGTACGAGTTCAACCTCAGCGCTCTGAAATCTTTAGCA
GTTAAGGAGTTTTTTTCAAAGCCCAAGTATAACCACATTTTGAAACCAGAAGACTGTCTCTGAACCGT
GCACTATATTGCAGTTGGACATGAGAACCCTGCAAATTTCTGATCTAGAGACCCTGAGGGGCGAGCTGCG
CTTCGACATCAGGAAGGCGGGGACCTGCACGGCTTCACGGCCTGGTTTAGCGTCCACTTCCAGAGCCTG
CAGGAGGGGCAGCCGCCGAGGTGCTCAGCACCGGGCCCTTCCACCCACCACACACTGGAAGCAGACGC
TGTTTCATGATGGACGACCCAGTCCCTGTCCATACAGGAGACGTGGTCACGGGTTCAAGTTGTGTTGCAGAG
AAACCCAGTGTGGATAAGGCACATGTCTGTGGCTCTGAGCTGGGTGTCACTTCCAGACAAGACCCACA
TCTCAAAAAGTTGGAGAAAAAGTCTTCCCATCTGGAGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC200461 protein sequence
 Red=Cloning site Green=Tags(s)

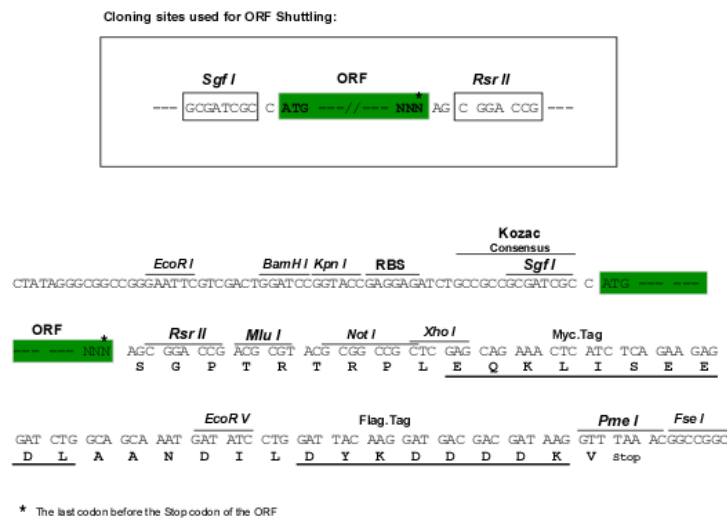
MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWWG
 ERAGCCGYIPANHVGHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQPRTTYHVSILQNKESLTDKV
 ILDVGCGTGIIISLFCAHYARPRAYAVEASEMAQHTGQLVLQNGFADIITVYQQKVEDVVLPEKVDVLS
 EWMGTCLLFEFMIESILYARDAWLKEDGVIWPTMAALHLVPCSAKDYSKVLFWDNAYEFNL SALKSLA
 VKEFFSKPKYNHILKPEDCLSEPCTILQLDMRTVQISDLETLRGELRFDIRKAGTLHGFTAWFSVHFQSL
 QEGQPPQVLSTGPFHPTTHWKQTLFMMDDPVPVHTGDVVTGSVVLQRNPVWIRHMSVALSWAVTSRQDPT
 SQKVGEKVFIWR

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6618_a11.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_206962

ORF Size: 1299 bp

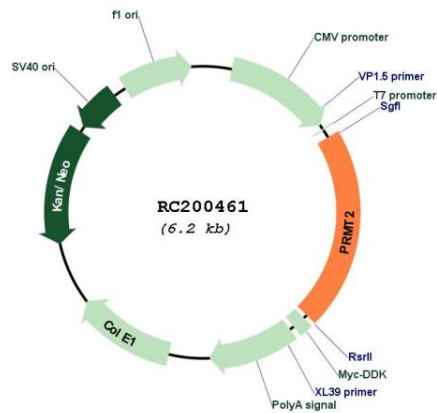
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

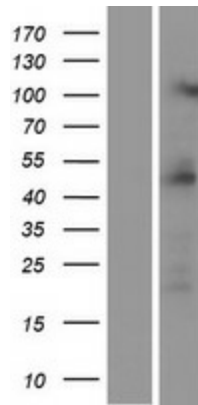
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_206962.4</u>
RefSeq Size:	2446 bp
RefSeq ORF:	1302 bp
Locus ID:	3275
UniProt ID:	<u>P55345</u>
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
MW:	49 kDa
Gene Summary:	Arginine methyltransferase that methylates the guanidino nitrogens of arginyl residues in proteins such as STAT3, FBL, histone H4. Acts as a coactivator (with NCOA2) of the androgen receptor (AR)-mediated transactivation. Acts as a coactivator (with estrogen) of estrogen receptor (ER)-mediated transactivation. Enhances PGR, PPARG, RARA-mediated transactivation. May inhibit NF-kappa-B transcription and promote apoptosis. Represses E2F1 transcriptional activity (in a RB1-dependent manner). May be involved in growth regulation. [UniProtKB/Swiss-Prot Function]

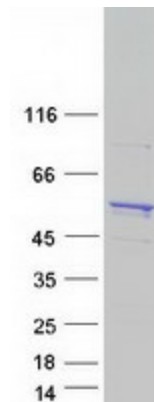
Product images:



Circular map for RC200461



Western blot validation of overexpression lysate (Cat# [LY404196]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200461 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRMT2 protein (Cat# [TP300461]). The protein was produced from HEK293T cells transfected with PRMT2 cDNA clone (Cat# RC200461) using MegaTran 2.0 (Cat# [TT210002]).