

Product datasheet for **RC237221**

PRMT2 (NM_001286677) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRMT2 (NM_001286677) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PRMT2
Synonyms: HRMT1L1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237221 representing NM_001286677
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGCAACATCAGGTGACTGTCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTGCAGTGAGGCCG
GTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTGTGGCCATCGCGGACTACGCTGCCACCGATGAGAC
CCAGCTCAGTTTTTTGAGAGGAGAAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGT
GAGCGTGCGGGCTGCTGTGGGTACATTCGGCAAACCATGTGGGGAAGCACGTGGATGAGTACGACCCCG
AGGACACGTGGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTCTGAACTCCACTTGAGATGTTGGC
AGACCAGCCACGAACAACTAAATACCACAGTGTATCCTGCAGAATAAAGAATCCTGACGGATAAAGTC
ATCCTGGACGTGGGCTGTGGGACTGGGATCATCAGTCTTCTGTGCACACTATGCGCGGCTAGAGCGG
TGTACGCGGTGGAGGCCAGTGAAGTGGCAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGA
CATCATCACCGTGTACCAGCAGAAGGTGGAGGATGTGGTGTGCCCGAGAAGGTGGACGTGCTGGTGTCT
GAGTGGATGGGACCTGCCTGCTGTTTGGAGTTCATGATCGAGTCCATCCTGTATGCCCGGATGCCTGGC
TGAAGGAGGACGGGGTCATTTGGCCACCATGGCTGCGTTGCACCTTGTGCCCTGCAGTGTGATGAGGA
TTATCGTAGCAAGGTGCTTCTTGGGACAACGCGTACGAGTTCAACCTCAGCGCTCTGAAGTTGGAGAAA
AAGTCTTCCCATCTGGAGATGACAGT

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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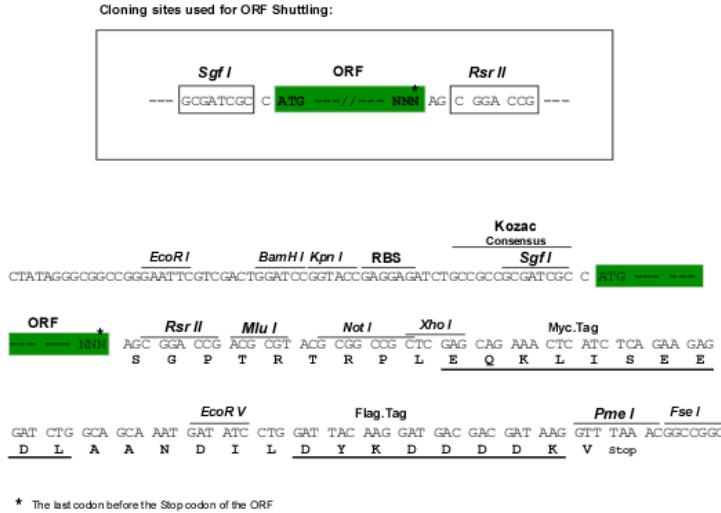
Protein Sequence: >RC237221 representing NM_001286677
Red=Cloning site Green=Tags(s)

MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWWG
 ERAGCCGYIPANHVGKHVDEYPDPTWQDEEYFGSYGLKLHLEMLADQPRTTKYHVSILQNKESLTDKV
 ILDVGCGTGIIISLFCAHYARPRVYAVEASEMAQHTGQLVLQNGFADIIITVYQQKVEDVVLPEKVDVLS
 EWMGTCLLFEFMIESILYARDAWLKEDGVIWPTMAALHLVPCSADKDYRSKVLFDNAYEFNLSALKLEK
 KSSPSGDDS

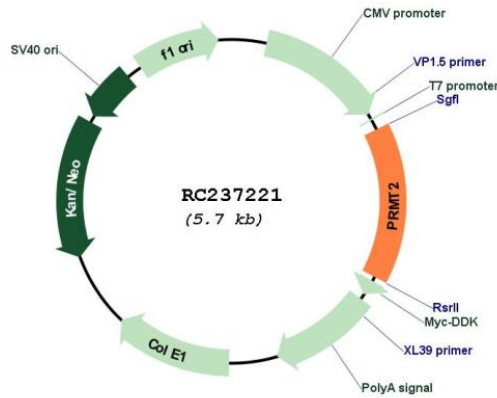
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286677

ORF Size: 867 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_001286677.1 , NP_001273606.1
RefSeq Size:	1898 bp
RefSeq ORF:	870 bp
Locus ID:	3275
UniProt ID:	P55345
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
MW:	32.9 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]