

Product datasheet for **RC233644**

PRMT2 (NM_001242865) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRMT2 (NM_001242865) Human Tagged ORF Clone
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: >RC233644 representing NM_001242865
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAACATCAGGTGACTGTCCCAGAAGTGAATCGCAGGGAGAAGGCCTGCTGAGTGCAGTGAGGCCG
GTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTTGTGGCCATCGCGGACTACGCTGCCACCGATGAGAC
CCAGCTCAGTTTTTTGAGAGGAGAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGT
GAGCGTGCGGCTGCTGTGGGTACATTCGGCAAACCATGTGGGAAGCACGTGGATGAGTACGACCCCG
AGGACACGTGGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTGAAACTCCACTTGGAGATGTTGGC
AGACCAGCCACGAACAATAAATACCACAGTGTACCTGCAGAATAAAGAATCCCTGACGGATAAAGTC
ATCCTGGACGTGGGCTGTGGGACTGGGATCATCAGTCTTCTGTGCACACTATGCGCGGCCCTAGAGCGG
TGTACGCGGTGGAGGCCAGTGAAGTGGCAGCAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGA
CATCATCACCGTGTACCAGCAGAAGGTGGAGGATGTGGTCTGCCGAGAAGGTGGACGTGCTGGTGTCT
GAGTGGATGGGGACCTGCCTGCTGGCTGCGCCTCTCCTGAGCTGCCGATTCTCCCCTGCACCTGTGCGT
CTGGCCCTCTTACGTCCTCCTGGCTGCTGTCTGCTCTCCCTGCACCTGTGCGTCTGCTCCCTTTCA
TGTCTCTTGCCTGCTGTCTGCCTGTTCTCAGAGCCCCCTCAGCCCTCAGGCCTTCATCTCTCTGGCC
ATCTTCTACTC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233644 representing NM_001242865
Red=Cloning site Green=Tags(s)

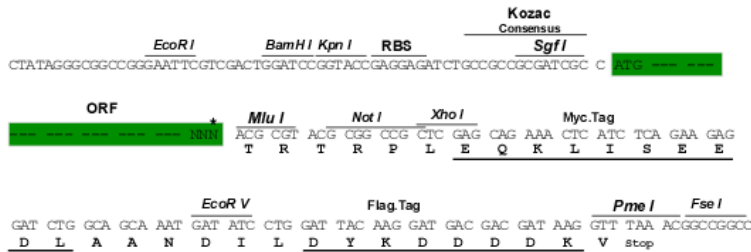
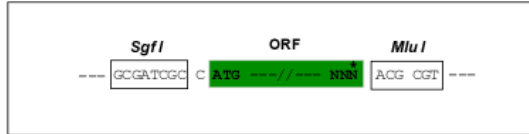
MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWWG
 ERAGCCGYIPANHVGHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQPRTTYHVSILQNKESLTDKV
 ILDVGCGTGIISLFCAHYARPRAYVAEASEMAQHTGQLVLQNGFADIITVYQQKVEDVVLPEKVDVLS
 EWMGTCLLAAPLLSCRILPCTCASGPLHVLLACCLPLPCTCASVPLHVLLACCLPVLRAPQPSGLHLSWP
 IFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001242865

ORF Size: 852 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_001242865.2](#), [NP_001229794.1](#)

RefSeq Size: 4171 bp

RefSeq ORF: 855 bp

Locus ID: 3275

UniProt ID: [P55345](#)

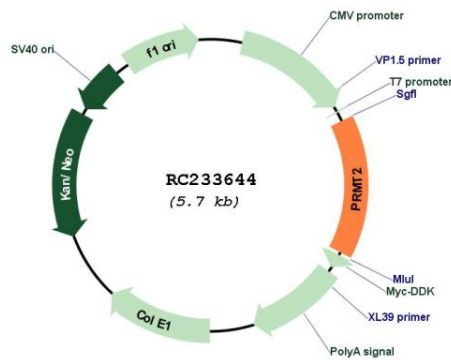
Cytogenetics: 21q22.3

Protein Families: Druggable Genome

MW: 31.6 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 RC233644