

Product datasheet for **RC236728**

PRMT2 (NM_001286678) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRMT2 (NM_001286678) 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: >RC236728 representing NM_001286678
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAACATCAGGTGACTGTCCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTGCAGTGAGGCCG
GTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTTGTGGCCATCGCGGACTACGCTGCCACCGATGAGAC
CCAGCTCAGTTTTTTGAGAGGAGAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGGT
GAGCGTGCGGGCTGCTGTGGGTACATTCGGCAAACCATGTGGGAAGCACGTGGATGAGTACGACCCCG
AGGACACGTGGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTCTGAAACTCCACTGGAGATGTTGGC
AGACCAGCCACGAACAATAAATACCACAGTGTATCCTGCAGAAATAAGAATCCCTGACGGATAAAGTC
ATCCTGGACGTGGGCTGTGGGACTGGGATCATCAGTCTTCTGTGCACACTATGCGCGGCTAGAGCGG
TGTACGCGGTGGAGGCCAGTGAGATGGCACAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGA
CATCATCACCGTGTACCAGCAGAAGGTGGAGGATGTGGTGTGCCCGAGAAGGTGGACGTGCTGGTGTCT
GAGTGGATGGGGACCTGCCTGCTGGTTGGAGAAAAAGTCTTCCCATCTGGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236728 representing NM_001286678
Red=Cloning site Green=Tags(s)

MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWWG
 ERAGCCGYIPANHVGHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQPRTTYHVSILQNKESLTDKV
 ILDVGCGTGIISLFCAHYARPRVYAVEASEMAQHTGQLVLQNGFADIITVYQKVEDVVLPEKVDVVLVS
 EWMGTCLLVGEKVFPIWR

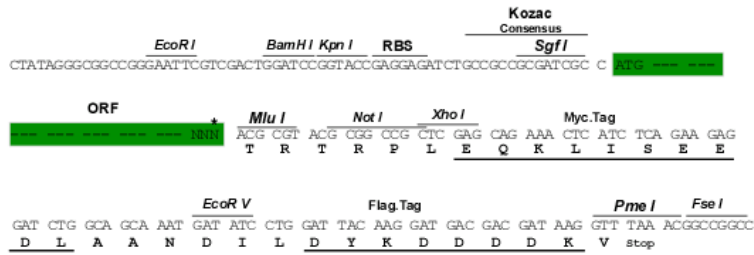
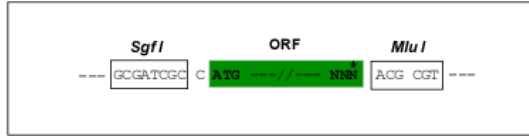
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

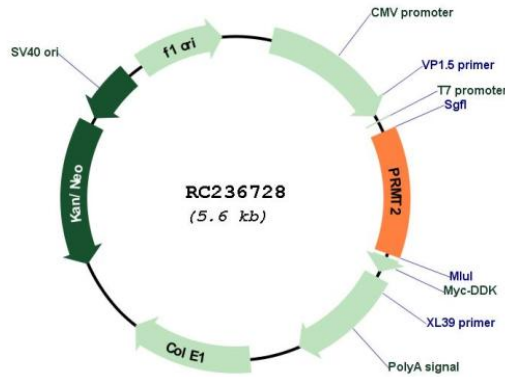
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001286678

ORF Size: 684 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_001286678.1 , NP_001273607.1
RefSeq Size:	1722 bp
RefSeq ORF:	687 bp
Locus ID:	3275
UniProt ID:	P55345
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
MW:	25.9 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]