

Product datasheet for **RG237221**

PRMT2 (NM_001286677) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | PRMT2 (NM_001286677) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PRMT2 |
| Synonyms: | HRMT1L1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG237221 representing NM_001286677. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAACATCAGGTGACTGTCCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTGCAGTGAGGCC
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GATGCCTGGTGAAGGAGGACGGGGTCAATTTGGCCACCATGGCTGCGTTGCACCTTGTGCCCTGCAGT
GCTGATAAGGATTATCGTAGCAAGGTGCTCTTCTGGGACAACGCGTACGAGTTCAACCTCAGCGCTCTG
AAGTTGGAGAAAAAGTCTTCCCATCTGGAGATGACAGT
AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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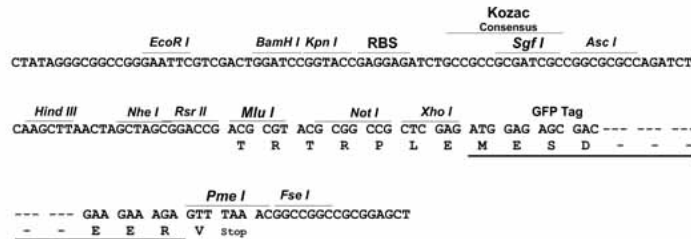
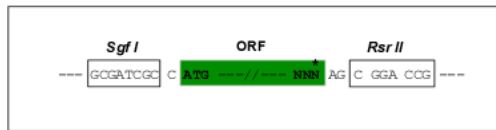
Protein Sequence: >Peptide sequence encoded by RG237221
 Blue=ORF Red=Cloning site Green=Tag(s)

MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWW
 GERAGCCGYIPANHVGHVDEYDPEDTWQDEEYFGSYGLKLHLEMLADQPRTTKYHSVILQNKESLTD
 KVILDVGGGTGIISLFAHYARPRAVYAVEASEMAQHTGQLVLQNGFADIITVYQKQVEDVVLPEKVDV
 LVSEWMTCLLFEFMIESILYARDAWLKEDGVIWPTMAALHLVPCSADKDYRSKVLFDNAYEFNLSAL
 KLEKKSSPSGDDS
 SGPTRRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLL
 SHVMGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGF
 PEDSVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGP
 MFAFRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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).

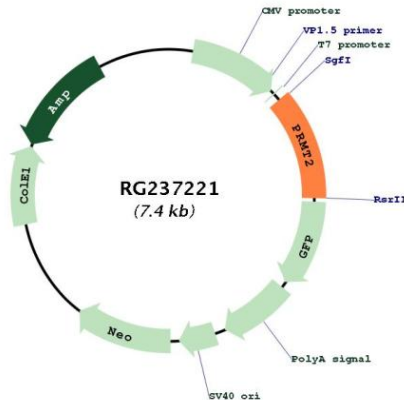
RefSeq: [NM_001286677.1](#), [NP_001273606.1](#)

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]

Product images:



Circular map for RG237221