

## Product datasheet for **RG232497**

### PRMT2 (NM\_001242864) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT2 (NM_001242864) 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:	>RG232497 representing NM_001242864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAACATCAGGTGACTGTCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTGCAGTGAGGCCG  
GTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTTGTGGCCATCGCGGACTACGCTGCCACCGATGAGAC  
CCAGCTCAGTTTTTTGAGAGGAGAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGT  
GAGCGTGCAGGCTGCTGTGGGTACATTCGGCAAACCATGTGGGAAGCACGTGGATGAGTACGACCCCG  
AGGACACGTGGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTGAAACTCCACTTGGAGATGTTGGC  
AGACCAGCCACGAACAATAAATACCACAGTGTCATCCTGCAGAATAAAGAATCCCTGACGGATAAAGTC  
ATCCTGGACGTGGGCTGTGGGACTGGGATCATCAGTCTTCTGTGCACACTATGCGCGGCTAGAGCGG  
TGTACGCGGTGGAGGCCAGTGAGATGGCACAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGA  
CATCATCACCGTGTACCAGCAGAAGGTGGAGGATGTGGTGTGCTGCCGAGAAGGTGGACGTGCTGGTGTCT  
GAGTGGATGGGGACCTGCCTGCTGACCTGAGGGGCGAGCTGCGCTTCGACATCAGGAAGCGGGGACCC  
TGCACGGCTTCACGGCTGGTTTAGCGTCCACTCCAGAGCTGCAGGAGGGGCAGCCGCCGAGGTGCT  
CAGCACCAGGACGTGGTACAGGGTTCAGTTGTGTTGCAGAGAAACCCAGTGTGGAGAAGGCACATGT  
CTGTGGCTCTGAGCTGGGCTGTCACTTCAGACAAGACCCACATCTCAAAAAGTTGGAGAAAAAGTCTT  
CCCCATCTGGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232497 representing NM\_001242864  
Red=Cloning site Green=Tags(s)

MATSGDCPRSESQGEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWWG  
 ERAGCCGYIPANHVGHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQPRRTTKYHSVILQNKESLTDKV  
 ILDVGCGTGIISLFCAHYARPRVYAVEASEMAOHTGQLVLQNGFADIITVYQQKVEDVVLPEKVDVLS  
 EWMGTCLLLTRGELRFDIRKAGTLHGFTA WFSVHFQSLQEQPPQVLSTGPFHPTTHWKQTLFMDDPVP  
 VHTGDVVTGSVVLQRNPVWRRHMSVALSWAVTSRQDPTSQKVGKVFPIWR

TRTRPLE - GFP Tag - V

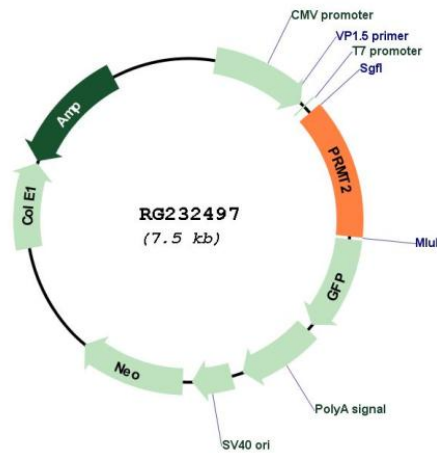
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001242864

**ORF Size:** 993 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242864.2</a> , <a href="#">NP_001229793.1</a>
<b>RefSeq Size:</b>	2031 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	3275
<b>UniProt ID:</b>	<a href="#">P55345</a>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]