

Product datasheet for **RG240065**

EHMT2/G9A (EHMT2) (NM_001289413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHMT2/G9A (EHMT2) (NM_001289413) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EHMT2
Synonyms:	BAT8; C6orf30; G9A; GAT8; KMT1C; NG36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240065 representing NM_001289413. Blue=ORF Red=Cloning site Green=Tag(s)

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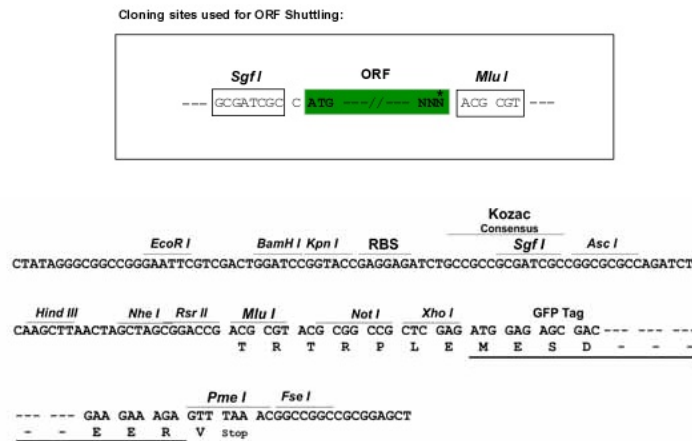
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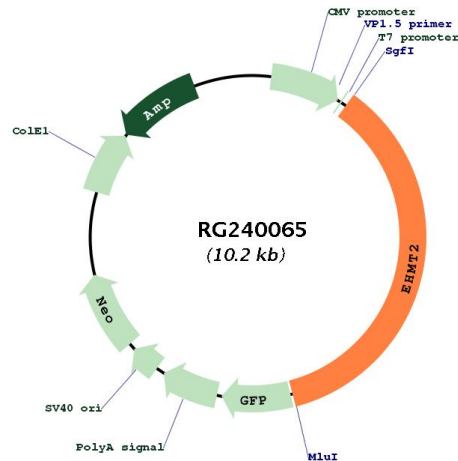
Protein Sequence: >Peptide sequence encoded by RG240065
 Blue=ORF Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001289413

ORF Size: 3699 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_001289413.1](#), [NP_001276342.1](#)

RefSeq Size: 4045 bp

RefSeq ORF: 3702 bp

Locus ID: 10919

UniProt ID: [Q96KQ7](#)

Cytogenetics: 6p21.33

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

MW: 135.9 kDa

Gene Summary:

This gene encodes a methyltransferase that methylates lysine residues of histone H3. Methylation of H3 at lysine 9 by this protein results in recruitment of additional epigenetic regulators and repression of transcription. This gene was initially thought to be two different genes, NG36 and G9a, adjacent to each other in the HLA locus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]