

Product datasheet for **RG214949**

EHMT1/GLP (EHMT1) (NM_024757) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHMT1/GLP (EHMT1) (NM_024757) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EHMT1/GLP
Synonyms:	EHMT1-IT1; Eu-HMTase1; EUHMTASE1; FP13812; GLP; GLP1; KLEFS1; KMT1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214949 representing NM_024757 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGCTGCCGATGAAGGCTCAGCAGAGAAACAGGCAGGAGAGGCCACATGGCTGCGGACGGTGAGACCA
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TGCCGGATGGAACACCCGAAGAGTCGAGAGATCACCACACTGGCCAACAACCAAGTGCATGGCTACAGAGA
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AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

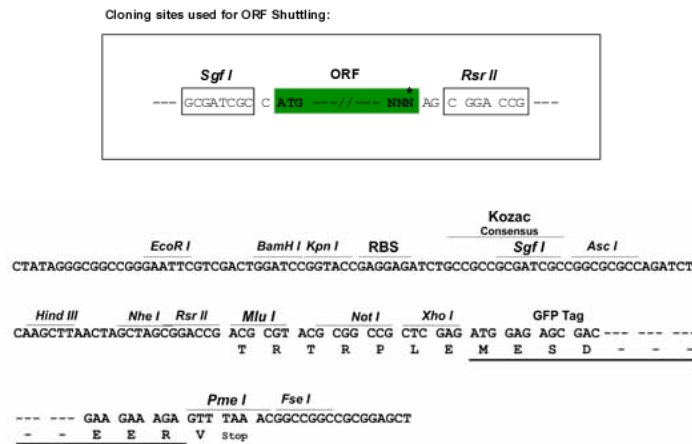
Protein Sequence: >RG214949 representing NM_024757
 Red=Cloning site Green=Tags(s)

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 NHHCEPNLVPVRVMAHQDLRFPRIAFFSTR LIEAGEQLGFDYGERFWDIKGLFSCRCSGSPKCRHSSAA
 LAQRQASAAQEAQEDGLPDTSSAAAADPL

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_024757

ORF Size: 5120 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_024757.3](#), [NP_079033.3](#)

RefSeq Size: 5067 bp

RefSeq ORF: 3897 bp

Locus ID: 79813

UniProt ID: [Q9H9B1](#)

Cytogenetics: 9q34.3

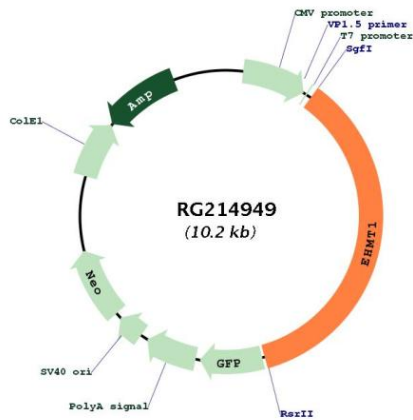
Domains: SET, ANK, PreSET, Pre-SET

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

Gene Summary:

The protein encoded by this gene is a histone methyltransferase that methylates the lysine-9 position of histone H3. This action marks the genomic region packaged with these methylated histones for transcriptional repression. This protein may be involved in the silencing of MYC- and E2F-responsive genes and therefore could play a role in the G0/G1 cell cycle transition. Defects in this gene are a cause of chromosome 9q subtelomeric deletion syndrome (9q-syndrome, also known as Kleefstra syndrome). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2017]

Product images:


Circular map for RG214949