OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG227601

EHMT1/GLP (EHMT1) (NM_001145527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHMT1/GLP (EHMT1) (NM_001145527) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EHMT1
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)

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ORF Nucleotide Sequence:

>RG227601 representing NM_001145527
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCCGCCGATGCCGAGGCAGTTCCGGCGAGGGGGGAGCCTCAGCAGGATTGCTGTGTGAAAACCG
AGCTGCTGGGAGAAGAGACACCTATGGCTGCCGATGAAGGCTCAGCAGAGAAACAGGCAGGAGAGGCCCA
CATGGCTGCGGACGGTGAGACCAATGGGTCTTGTGAAAACAGCGATGCCAGCAGTCATGCAAATGCTGCA
AAGCACACTCAGGACAGCGCAAGGGTCAACCCCCAGGATGGCACCAACACACTAACTCGGATAGCGGAAA
ATGGGGTTTCAGAAAGAGACTCAGAAGCGGCGAAGCAAAACCACGTCACTGCCGACGACTTTGTGCAGAC
TTCTGTCATCGGCAGCAACGGATACATCTTAAATAAGCCGGCCCTACAGGCACAGCCCTTGAGGACTACC
AGCACTCTGGCCTCTTCGCTGCCTGGCCATGCTGCAAAAACCCTTCCTGGAGGGGCTGGCAAAGGCAGGA
CTCCAAGCGCTTTTCCCCAGACGCCAGCCGCCCCACCAGCCACCCTTGGGGAGGGGAGTGCTGACACAGA
GGACAGGAAGCTCCCGGCCCCTGGCGCCGACGTCAAGGTCCACAGGGCACGCAAGACCATGCCGAAGTCC
GTCGTGGGCCTGCATGCAGCCAGTAAAGATCCCAGAGAAGTTCGAGAAGCTAGAGATCATAAGGAACCAA
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GACGACTCAGAGGAGCTCGAGGAGGACGACGGCCATGGTGCAGAGCAGGCGGCCGCGTTCCCCACAGAGG
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GTCAAAGGAATTCTGTCTTCACAAGCAGAAGGGTTGGCCAACGGTCCAGATGTGCTGGAGACAGACGGCC
TCCAGGAAGTGCCTCTCTGCAGCTGCCGGATGGAAACACCGAAGAGTCGAGAGATCACCACACTGGCCAA
CAACCAGTGCATGGCTACAGAGAGCGTGGACCATGAATTGGGCCGGTGCACAGACAGCGTGGTCAAGTAT
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AGCACCAGTGCTGTCCTGGCTGTGGCTACTTCTGCACAGCGGGTAATTTTATGGAGTGTCAGCCCGAGAG
CAGCATCTCTCACCGTTTCCACAAAGACTGTGCCTCTCGAGTCAATAACGCCAGCTATTGTCCCCACTGT
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TCCCCGGGCAGGAGAAGGGCTCGGCCCTGGAGGGCAGGGCCGACACCACAACGGGCAGTGCTGCCGGGCC
ACCACTCTCGGAGGACGACAAGCTGCAGGGTGCAGCCTCCCACGTGCCCGAGGGCTTTGATCCAACGGGA
CCTGCTGGGCTTGGGAGGCCAACTCCCGGCCTTTCCCAGGGACCAGGGAAGGAAACCTTGGAGAGCGCTC
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GCAAGGGGAGCTTCAGAAGGTGCTCCTCATGCTGGTGGACGGAATTGACCCCAACTTCAAAATGGAGCAC
CAGAATAAGCGCTCTCCACTGCACGCCGCGGCAGAGGCTGGACACGTGGACATCTGCCACATGCTGGTTC
AGTTCTGCAGGCTGGGAAGCCCAAGGTCGAGGGGCTGCCTTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>RG227601 representing NM_001145527
Red=Cloning site Green=Tags(s)

MAAADAEAVPARGEPQQDCCVKTELLGEETPMAADEGSAEKQAGEAHMAADGETNGSCENSDASSHANAA
KHTQDSARVNPQDGTNTLTRIAENGVSERDSEAAKQNHVTADDFVQTSVIGSNGYILNKPALQAQPLRTT
STLASSLPGHAAKTLPGGAGKGRTPSAFPQTPAAPPATLGEGSADTEDRKLPAPGADVKVHRARKTMPKS
VVGLHAASKDPREVREARDHKEPKEEINKNISDFGRQQLLPPFPSLHQSLPQNQCYMATTKSQTACLPFV
LAAAVSRKKKRRMGTYSLVPKKKTKVLKQRTVIEMFKSITHSTVGSKGEKDLGASSLHVNGESLEMDSDE
DDSEELEEDDGHGAEQAAAFPTEDSRTSKESMSEADRAQKMDGESEEEQESVDTGEEEEGGDESDLSSES
SIKKKFLKRKGKTDSPWIKPARKRRRRSRKKPSGALGSESYKSSAGSAEQTAPGDSTGYMEVSLDSLDLR
VKGILSSQAEGLANGPDVLETDGLQEVPLCSCRMETPKSREITTLANNQCMATESVDHELGRCTDSVVKY
ELMRPSNKAPLLVLCEDHRGRMVKHQCCPGCGYFCTAGNFMECQPESSISHRFHKDCASRVNNASYCPHC
GEESSKAKEVTIAKADTTSTVTPVPGQEKGSALEGRADTTTGSAAGPPLSEDDKLQGAASHVPEGFDPTG
PAGLGRPTPGLSQGPGKETLESALIALDSEKPKKLRFHPKQLYFSARQGELQKVLLMLVDGIDPNFKMEH
QNKRSPLHAAAEAGHVDICHMLVQFCRLGSPRSRGCLW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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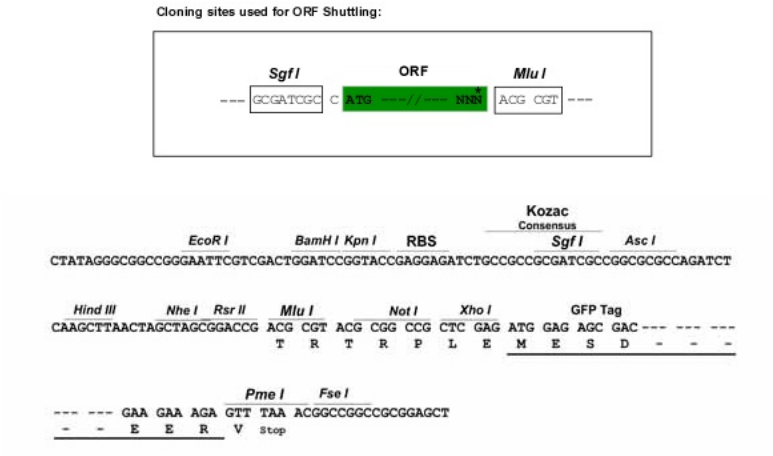
Cloning Scheme:



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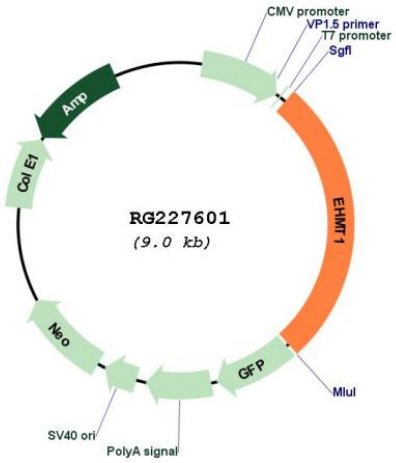
Plasmid Map:



ACCN: NM_001145527

ORF Size: 2424 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_001145527.1, NP_001138999.1

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RefSeq Size:	2724 bp
RefSeq ORF:	2427 bp
Locus ID:	79813
UniProt ID:	Q9H9B1
Cytogenetics:	9q34.3
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]

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