

## Product datasheet for **SC326500**

### **EHMT1/GLP (EHMT1) (NM\_001145527) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EHMT1/GLP (EHMT1) (NM_001145527) Human Untagged Clone
Tag:	Tag Free
Symbol:	EHMT1/GLP
Synonyms:	EHMT1-IT1; Eu-HMTase1; EUHMTASE1; FP13812; GLP; GLP1; KLEFS1; KMT1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC326500 representing NM\_001145527.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCGCCGCCGATGCCGAGGCAGTTCGGCGAGGGGGAGCCTCAGCAGGATTGCTGTGTGAAAACC
GAGCTGCTGGGAGAAGAGACACCTATGGCTGCCGATGAAGGCTCAGCAGAGAAAACAGGCAGGAGAGGCC
CACATGGCTGCGGACGGTGAGACCAATGGGTCTTGTGAAAACAGCGATGCCAGCAGTCATGCAAATGCT
GCAAAGCACACTCAGGACAGCGCAAGGGTCAACCCCCAGGATGGCACCAACACACTAACTCGGATAGCG
GAAAATGGGGTTTCAGAAAGAGACTCAGAAGCGGCGAAGCAAACCACGTCCTGCCGACGACTTTGTG
CAGACTTCTGTATCGGCAGCAACGGATACATCTTAAATAAGCCGGCCCTACAGGCACAGCCCTTGAGG
ACTACCAGCACTTGGCCTTTCGCTGCCTGGCCATGCTGCAAAAACCCCTCCTGGAGGGGCTGGCAAA
GGCAGGACTCCAAGCGCTTTTCCCAGACGCCAGCCGCCACCAGCCACCCTTGGGGAGGGGAGTGCT
GACACAGAGGACAGGAAGCTCCCGGCCCTGGCGCCGACGTCAAGGTCCACAGGGCACGCAAGACCATG
CCGAAGTCCGTCGTGGGCTGCATGCAGCCAGTAAAGATCCAGAGAAGTTCGAGAAGCTAGAGATCAT
AAGGAACCAAAGAGGAGATCAACAAAACATTTCTGACTTTGGACGACAGCAGCTTTTACCCCCCTTC
CCATCCCTTCATCAGTCGCTACCTCAGAACCAGTGCTACATGGCCACCACAAAATCACAGACAGTTGC
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CCTAAGAAAAAGACCAAAGTATTAACAGAGGACGGTGATTGAGATGTTTAAGAGCATAACTCATTCC
ACTGTGGGTTCCAAGGGGGAGAAGGACCTGGGCGCCAGCAGCCTGCACGTGAATGGGGAGAGCCTGGAG
ATGGACTCGGATGAGGACGACTCAGAGGAGCTCGAGGAGGACGACGGCCATGGTGCAGAGCAGGCGGCC
GCGTTCACACAGAGGACAGCAGGACTTCCAAGGAGAGCATGTCGAGGCTGATCGCGCCAGAAGATG
GACGGGAGTCCGAGGAGGAGCAGGAGTCCGTGGACCCGGGGAGGAGGAGGAAGCGGTTGACGACTCT
GACCTGAGTTTCGGAATCCAGCATTAAAGAAGAAATTTCTCAAGAGGAAAGGAAAGACCACAGTCCCTGG
ATCAAGCCAGCCAGGAAAAGGAGGCGGAGAAGTAGAAAGAAAGCCAGCGGTGCCCTCGTTCTGAGTCG
TATAAGTCATCTGCAGGAAGCGCTGAGCAGACGGCACCAGGAGACAGCACAGGTTACATGGAAGTTTCT
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GATGTGCTGGAGACAGACGGCTCCAGGAAGTGCCTCTCTGCAGCTGCCGGATGGAACACCGAAGAGT
CGAGAGATCACCACTGGCCAACAACAGTGCATGGCTACAGAGAGCGTGGACCATGAATTGGGCCGG
TGCACAAAACAGCGTGGTCAAGTATGAGCTGATGCGCCCTCCAACAAGGCCCCGCTCCTCGTGTGTGT
GAAGACCACCGGGCCGATGGTGAAGCACCAGTGTCTCTGGCTGTGGCTACTTCTGCACAGCGGGT
AATTTTATGGAGTGTAGCCCGAGAGCAGCATCTCTACCGTTTTCCACAAGACTGTGCCTCTCGAGTC
AATAACGCCAGCTATTGTCCCACTGTGGGGAGGAGAGCTCCAAGGCCAAAGAGGTGACGATAGCTAAA
GCAGACACCACCTCGACCGTGACACCAGTCCCGGGCAGGAGAAGGGCTCGGCCCTGGAGGGCAGGGCC
GACACCACAACGGGACGTGCTGCCGGGCCACCACTCTCGGAGGACGACAAGTGCAGGGTGCAGCCTCC
CACGTGCCGAGGGCTTTGATCCAACGGGACCTGCTGGGCTTGGGAGGCCAACTCCCGGCCCTTCCCAG
GGACCAGGGAAGGAAACCTTGGAGAGCGCTCTCATCGCCCTCGACTCGGAAAAACCAAGAAGCTTCGC
TTCCACCAAAGCAGCTGTACTTCTCCGCCAGGCAAGGGGAGCTTCAGAAGGTGCTCCTCATGCTGGTG
GACGGAATTGACCCCACTTCAAATGGAGCACCAGAATAAGCGCTCTCCACTGCACGCCGCGCAGAG
GCTGGACAGTGGACATCTGCCACATGCTGGTTCAAGTCTGCAGGCTGGGAGCCCAAGGTGCAGGGGC
TGCCTTTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001145527  
**Insert Size:** 2427 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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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](#)

**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

**MW:** 86.7 kDa

**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]

Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter and has a distinct C-terminus compared to isoform 1.