

## Product datasheet for **SC337959**

### **EHMT2/G9A (EHMT2) (NM\_001289413) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EHMT2/G9A (EHMT2) (NM_001289413) Human Untagged Clone
Tag:	Tag Free
Symbol:	EHMT2
Synonyms:	BAT8; C6orf30; G9A; GAT8; KMT1C; NG36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001289413, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGGTCTACCGAGAGGGAGGGGGTTGATGCGGGCCCGGGGAGGGGTCTGTCGGCCCTCCGGGCA
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 GCCTGGACCCACACCCTGAGCTGCTGCCGAGCTCGGCTCCCTGCCCCCTGTCAACACATGA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001289413
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_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

**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]  
Transcript Variant: This variant (1) lacks an alternate in-frame exon compared to variant 5. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform e.