

Product datasheet for RC224625L3

OriGene Technologies, Inc.

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EHMT2/G9A (EHMT2) (NM_006709) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: EHMT2/G9A (EHMT2) (NM_006709) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: EHMT2/G9A

Synonyms: BAT8; C6orf30; G9A; GAT8; KMT1C; NG36

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC224625).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_006709

ORF Size: 3630 bp





EHMT2/G9A (EHMT2) (NM_006709) Human Tagged Lenti ORF Clone - RC224625L3

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).

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: <u>NM 006709.2</u>

 RefSeq Size:
 3994 bp

 RefSeq ORF:
 3633 bp

 Locus ID:
 10919

 UniProt ID:
 Q96KQ7

Cytogenetics:

Domains: SET, ANK, PreSET, Pre-SET

6p21.33

Protein Families: Druggable Genome
Protein Pathways: Lysine degradation

MW: 132.2 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]