

## Recombinant Human KMT2D Protein, GST-tagged

**Cat. No.** KMT2D-5389H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MLL2 partial ORF ( NP_003473.1, 1487 a.a. - 1586 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | The protein encoded by this gene is a histone methyltransferase that methylates the Lys-4 position of histone H3. The encoded protein is part of a large protein complex called ASCOM, which has been shown to be a transcriptional regulator of the beta-globin and estrogen receptor genes. Mutations in this gene have been shown to be a cause of Kabuki syndrome. [provided by RefSeq, Oct 2010] |
| <b>Molecular Mass</b>   | 36.74 kDa                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | SKLEGMFPAYLQEAFFGKELLDLSRKALFAVGVGPRPSFGLGTPKAKGDGGSERKEL<br>PTSQKGDDGPDIADEESRGLEGKADTPGPEDGGVKASPVPSDPE                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>     | Antibody Production<br>Functional Study<br>Compound Screening                                                                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                              |

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**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** KMT2D lysine methyltransferase 2D [ Homo sapiens (human) ]

**Official Symbol** KMT2D

**Synonyms** KMT2D; lysine methyltransferase 2D; MLL2; myeloid/lymphoid or mixed-lineage leukemia 2; TNRC21, trinucleotide repeat containing 21; histone-lysine N-methyltransferase MLL2; ALR; CAGL114; KMT2D; MLL4; ALL1-related protein; Kabuki make-up syndrome; lysine N-methyltransferase 2B; lysine N-methyltransferase 2D; Kabuki mental retardation syndrome; trinucleotide repeat containing 21; KMS; AAD10; KMT2B; KABUK1; TNRC21;

**Gene ID** 8085

**mRNA Refseq** NM\_003482

**Protein Refseq** NP\_003473

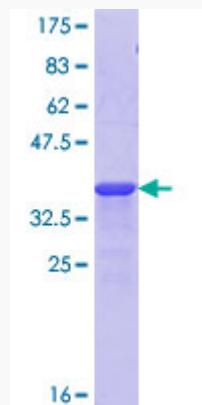
**MIM** 602113

**UniProt ID** O14686

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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