

## Product datasheet for **TP507038**

### Eed (NM\_021876) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse embryonic ectoderm development (Eed), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR207038 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MSEREVSTAPAGTDMPPAAKKQKLSSDENSNPDLSGDENDDAVSIESGTNTERPDTPTNTPNAPGRKSWGK  
GKWKSKKCKYFKCVNSLKEDHNQPLFGVQFNWHSKEGDLVVFATVGSNRVTLYECHSQGEIRLLQSYVD  
ADADENFYTCAWTYDSNTSHPLLAVAGSRGIIRIINPITMQCIKHVYVGHGNAINELKFHPRDPNLLLSVS  
KDHALLRWNIQTDTLVAIFGGVEGHRDEVLSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKESYDY  
NPNKTNRPFISQKIHFPDFSTRDIHRNYVDCVRWLGDLILSKSCENAIVCWKPGKMEDDIDKIKPSESNV  
TILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVQGLYVWDLEVEDPHKAKCTTLTHHKCGAAIRQTSFSR  
DSSILIAVCDDASIWRWDLR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK

**Predicted MW:** 50.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C after receiving vials.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_068676](#)

**Locus ID:** 13626



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UniProt ID:	<u>Q921E6</u>
RefSeq Size:	2060
Cytogenetics:	7
RefSeq ORF:	1326
Synonyms:	ENSMUSG00000039373; I(7)5Rn; I7Rn5; lusk
Summary:	<p>Polycomb group (PcG) protein. Component of the PRC2/EED-EZH2 complex, which methylates 'Lys-9' and 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Also recognizes 'Lys-26' trimethylated histone H1 with the effect of inhibiting PRC2 complex methyltransferase activity on nucleosomal histone H3 'Lys-27', whereas H3 'Lys-27' recognition has the opposite effect, enabling the propagation of this repressive mark (By similarity). The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems (By similarity). Genes repressed by the PRC2/EED-EZH2 complex include HOXA7, HOXB6 and HOXC8. Plays a role in X chromosome inactivation (XCI), in which one of the two X chromosomes in female mammals is transcriptionally silenced to equalize X-linked gene dosage with XY males. Required for stable maintenance of XCI in both embryonic and extraembryonic tissues. May prevent transcriptional activation of facultative heterochromatin during differentiation. Required for development of secondary trophoblast giant cells during placental development. May regulate hippocampal synaptic plasticity in the developing brain.[UniProtKB/Swiss-Prot Function]</p>