

Product datasheet for **MR207038**

Eed (NM_021876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eed (NM_021876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eed
Synonyms:	ENSMUSG00000039373; I(7)5Rn; I7Rn5; lusk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207038 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGAGAGGGAAAGTGTGCGACTGCGCCGGCGGGAACAGACATGCCCGGCCAAGAAGCAGAAGTTGA
 GCAGCGACGAGAACAGCAACCCGGACCTCTCGGGAGACGAAAATGACGATGCTGTGAGTATTGAGAGTGG
 CACAAACACAGAACGCCGGACACCCACAAATACGCCAAATGCACCAGGAAGGAAAAGCTGGGAAAAG
 GGAAAATGGAAAGTCAAAGAAATGCAAAATATTCTTTCAAATGTGTGAACAGCCTCAAGGAAGATCATAACC
 AGCCATTGTTGGAGTTCAGTTAACTGGCACAGTAAAGAAGGAGACCCTCTGGTGTTCGAACTGTGGG
 AAGCAACAGAGTAACCTTATACGAATGCCATTACAGGGGGAGATACGGTTATTGCAGTCCTATGTCGAT
 GCTGATGCAGATGAAAACTTTACACTTGTGCATGGACCTATGATAGCAACACCAGCCACCCTCTATTAG
 CAGTTGCTGGATCTAGAGGCATTATAAGAATAATTAATCTATAACAATGCAGTGTATAAGCACTATGT
 TGGCCATGAAAATGCTATCAATGAGCTGAAATTCACCCACGAGACCCAAACCTTCTCCTGTCAGTAAGT
 AAAGATCATGCTTACGGTTATGGAATATCCAAACAGACACTCTTGTGGCAATATTCGGAGGTGTGGAAG
 GGCACAGAGATGAAGTCTGAGTGTGATTATGATCTTTTGGGTGAAAAATAATGTCCTGTGGTATGGA
 TCACTCTCTAAACTGTGGAGAATCAACTCAAAGAGGATGATGAATGCAATTAAGGAGTCTTATGATTAT
 AACCCAAACAAAATAACAGGCCATTTATTTCCAGAAAATCCACTTTCCTGACTTTTCTACCAGAGACA
 TACATAGGAATTATGTTGATTGTGTGCGATGGTTAGGCGATTTGATACTTTCCAAGTCTTGTGAAAATGC
 CATTGTATGCTGGAAACCTGGCAAAATGGAGGATGATATAGATAAAAATTAACCTAGTGAGTCTAATGTG
 ACTATTCTTGGGCGATTTGATTACGCCAGTGTGACATTTGGTACATGAGGTTTTCTATGGATTTCTGGC
 AAAAGATGCTTGCATTGGCAATCAGTTGGCAAACTGTATGTTTGGGATTTAGAAGTAGAAGATCCTCA
 TAAAGCCAAATGCACAACACTGACCCATCATAAATGTGGCGCGGTATTGACAAAACAGTTTCAGTAGG
 GATAGCAGCATCCTCATAGCTGTCTGCGATGATGCCAGCATTGGCGATGGGATCGACTTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207038 protein sequence
 Red=Cloning site Green=Tags(s)

MSEREVSTAPAGTDMPAAKKQKLSSDENSNPDLSGDENDDAVSIESGTNTERPDTPNTPNAPGRKSWGK
 GKWKSKKCKYSFKCVNSLKEDHNQPLFGVQFNWHSKEGDPLVFATVGSNRVTLYECHSQGEIRLLQSYVD
 ADADENFYTCAWTYDSNTSHPLLAVAGSRGIIRIINPITMQCIKHVYVGHGNAINELKFHPRDPNLLL SVS
 KDHALRLWNIQDTLVAIFGGVEGHRDEVLSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKESYDY
 NPNKTNRPFI SQKIHFPDFSTRDIHRNYVDCVRWLGDLILSKSCENAIVCWKPGKMEDDIDKIKPSES NV
 TILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVGLYVWDLEVEDPHKAKCTTLTHKCGAAIRQTSFSR
 DSSILIAVCDASIWWRDLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

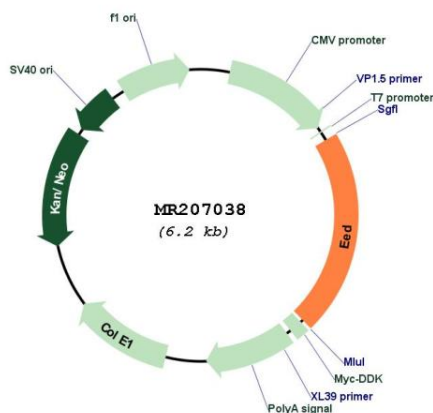
Restriction Sites:

SgfI-MluI

RefSeq Size: 2060 bp
 RefSeq ORF: 1326 bp
 Locus ID: 13626
 UniProt ID: [Q921E6](#)
 Cytogenetics: 7
 MW: 50.2 kDa

Gene Summary: 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]

Product images:



Circular map for MR207038