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Product datasheet for MC203771

Eed (NM_021876) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eed (NM_021876) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eed
Synonyms:	ENSMUSG00000039373; l(7)5Rn; l7Rn5; lusk
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC012966
CCACGCGTCCGCCCACGCGTCCGGCCAATTGCGGATGAAACGTCTTGGCCAGGAAGGGGGTGAGGGAGCA
GCCCTTTGAGTTCCGCCTCGTCTCTAGGCGCTGGTGGGGAAGGGGGACGTAGGAAACCCCTGCCCTCTGA
GCCAGCAGATCCGACGCCTCGGTGCAAAGTGCCGAGAGGGCGGCGGGAAAACCGCCCGCCCGGACCAAGG
GACGGGAAGCAGCCGGGAAGCCGTGCGGGAGGGCGCGCGCGCGCGCCCCTTTTTCAGCAGTGTGGCGG
GGTCGCACGCACGCCCGCCTCGGCGGCTGGGCGCGATTTGCGACAGTGGGGGGAGCGGCGGCGGTGGCGG
CGCCGGCAGCTTTGCGGCAGGCTCGGGCCGGGCGTGCTTGACGGCGGTGTGGCGGAGGCCCCGCCCGAGG
CGGCAAGAACCTGGAGGGAGGCGGAGGAACATGTCCGAGAGGGAAGTGTCGACTGCGCCGGCGGGAACAG
ACATGCCCGCGGCCAAGAAGCAGAAGTTGAGCAGCGACGAGAACAGCAACCCGGACCTCTCGGGAGACGA
AAATGACGATGCTGTCAGTATTGAGAGTGGCACAAACACAGAACGCCCGGACACACCCACAAATACGCCA
AATGCACCAGGAAGGAAAAGCTGGGGAAAGGGAAAATGGAAGTCAAAGAAATGCAAATATTCTTTCAAAT
GTGTGAACAGCCTCAAGGAAGATCATAACCAGCCATTGTTTGGAGTTCAGTTTAACTGGCACAGTAAAGA
AGGAGACCCTCTGGTGTTTGCAACTGTGGGAAGCAACAGAGTAACCTTATACGAATGCCATTCACAGGGG
GAGATACGGTTATTGCAGTCCTATGTCGATGCTGATGCAGATGAAAACTTTTACACTTGTGCATGGACCT
ATGATAGCAACACCAGCCACCCTCTATTAGCAGTTGCTGGATCTAGAGGCATTATAAGAATAATTAATCC
TATAACAATGCAGTGTATAAAGCACTATGTTGGCCATGGAAATGCTATCAATGAGCTGAAATTCCACCCA
CGAGACCCAAACCTTCTCCTGTCAGTAAGTAAAGATCATGCTTTACGGTTATGGAATATCCAAACAGACA
CTCTTGTGGCAATATTCGGAGGTGTGGAAGGGCACAGAGATGAAGTTCTGAGTGCTGATTATGATCTTTT
GGGTGAAAAAATAATGTCCTGTGGTATGGATCACTCTCTTAAACTGTGGAGAATCAACTCAAAGAGGATG
ATGAATGCAATTAAGGAGTCTTATGATTATAACCCAAACAAAACTAACAGGCCATTTATTTCCCAGAAAA
TCCACTTTCCTGACTTTTCTACCAGAGACATACATAGGAATTATGTTGATTGTGTGCGATGGTTAGGCGA
TTTGATACTTTCCAAGTCTTGTGAAAATGCCATTGTATGCTGGAAACCTGGCAAAATGGAGGATGATATA
GATAAAATTAAACCTAGTGAGTCTAATGTGACTATTCTTGGGCGATTTGATTACAGCCAGTGTGACATTT
GGTACATGAGGTTTTCTATGGATTTCTGGCAAAAGATGCTTGCATTGGGCAATCAGGTTGGCAAACTGTA
TGTTTGGGATTTAGAAGTAGAAGATCCTCATAAAGCCAAATGCACAACACTGACCCATCATAAATGTGGC
GCGGCTATTCGACAAACCAGTTTCAGTAGGGATAGCAGCATCCTCATAGCTGTCTGCGATGATGCCAGCA
TTTGGCGATGGGATCGACTTCGATAAACTATTTTTTCCTAGTAAAAATTAGTCTGTTGTCTGTAAAATAG
AAGTAATGTATCTTGCTAGTAAGGGCACATAGAGCATTTAGACTTGTTTTTCAGCATTCGATCAGGCTGA
GCTGAATGTAGTGATGTTCACATTGTTTACATTCTTTGTACTGTCTTCCTGCTCGGACTTTACTGCTTTT
AATAAAAATTTATTTTTGTAAAGCTGTGTTATTTTTATTGTGATGGAAACAAACTGGAAGAAATAAAGTT
GTACCATAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_021876

Insert Size: 1326 bp

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:	BC012966, AAH12966
RefSeq Size:	2054 bp
RefSeq ORF:	1326 bp
Locus ID:	13626
UniProt ID:	Q921E6
Cytogenetics:	7
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]