

Recombinant Full Length Human MPEG1 Protein, C-Flag-tagged

Cat. No. MPEG1-1939HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MPEG1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	78.4 kDa
AA Sequence	MNNFRATILFWAAA WAKSGKPSGEMDEVGVQKCKNALKLPVLEVLPGGGWDNLR NVDMGRVMELTYSNC RTTEDGQYIIPDEIFTIPQKQSNLEMNSEILESWANYQSSTS YSINTELSLFSKVNGKFSTEFQRMKTLQ VKDQAITTRVQVRNLVYTVKINPTLELSSG FRKELLDISDRLENNQTRMATYLAELLVLNYGTHVTTSD AGAALI QEDHLRASFLQ DSQSSRS AVTASAGLAFQNTVNFKFEENYTSQNVLT KSYLSNRTNSRVQSIGG VPF YPGITLQAWQQGITNHLVAIDRSGLPLHFFINPNMLPDLPGPLVKKVSKTVETAVKRY YTFNTYPGC TDLNSPNFNFQANTDDGSCEGKMTNFSFGGVYQECTQLSGNRDVLL CQKLEQKNPLTGDFSCPSGYSPVH LLSQIHEEGYNHLECHRKCTLLVFCKTVCEDV FQVAKAEFRAFWCVASSQVPENSGLLFGGLFSSKSINP MTNAQSCPAGYFPLRLF NLKVCVSQDYELGSRFAVPFGGFFSCTVGNPLVDP AISRDLGALS LKKCPGG FSQH PALISDGCQVSYCVKSGLFTGGSLPPARLPPFTRPPLMSQAATNTVIVTNSENARSW IKDSQTHQW RLGEPIELRRAMNVIHGDGGGLSGGAAAGVTGVTTILAVVITLAIYGT RKFKKKAYQAIEERQSLVPGT AATGDTTYQEQQQSPA TRTRPLEQKLISEEDLAAN DILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane

Full Length
Full L.

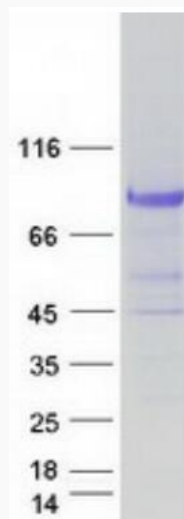
GENE INFORMATION

Gene Name [MPEG1 macrophage expressed 1 \[Homo sapiens \(human\) \]](#)
Official Symbol [MPEG1](#)
Synonyms P-2; MPG1; MPS1; IMD77; Mpg-1

Gene ID [219972](#)
mRNA Refseq [NM_001039396.2](#)
Protein Refseq [NP_001034485.1](#)
MIM [610390](#)
UniProt ID [Q2M385](#)
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Coomassie blue staining of purified MPEG1 protein.

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