

## Product datasheet for **TP324739L**

### **MPEG1 (NM\_001039396) Human Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human macrophage expressed 1 (MPEG1), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA** >RC224739 protein sequence

**Clone or AA** **Red**=Cloning site **Green**=Tags(s)

**Sequence:**

MNNFRATILFWAAA AWAKSGKPSGEMDEVGVQKCKNALKLPVLEVLPGGGWDNLRNVDMGRVMELTYSNC  
RTTEDGQYIIPDEIFTIPQKQSNLEMNSEILES WANYQSSTSYSINTELSLFSKVNKGFSTEFQRMKTLQ  
VKDQAITTRVQVRNLVYTVKINPTLELSSGFRKELLDISDRLENNQTRMATYLAELLVLNYGTHVTTSD  
AGAALI QEDHLRASFLQDSQSSRS AVTASAGLAFQNTVNFKFEENYTSQNVLT KSYLSNRNTRVQSIGG  
VPFYPGITLQAWQQGITNHLVAIDRSLPLHFFINPNMLPDLPGPLVKKVSKTVETAVKRYTYFNTYPGC  
TDLNSPNFNFAQNTDDGSGCEGKMTNFSFGGVYQECTQLSGNRDVLLCQKLEQKNPLTGDFSCPSGYSPVH  
LLSQIHEEGYNHLECHRKCTLLVFCKTVCEDVFQVAKAEFRAFVCVASSQVPENSGLLFGGLFSSKSINP  
MTNAQSCPAGYFPLRLFENLKVCSQDYELGSRFAVPFGGFFSCTVGNPLVDPAISRDLGALSLKKCPGG  
FSQHPALISDGCQVSYCVKSGLFTGGSLPPARLPPFTRPPLMSQAATNTVIVTNSENARSWIKDSQTHQW  
RLGEPIELRRAMNVIHGDGGGLSGGAAAGVTGVTTILAVITLAIYGTRKFKKKAYQAI EERQSLVPGT  
AATGDTTYQEQGQSPA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 78.4 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

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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

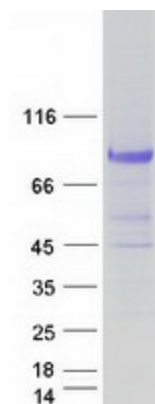
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001034485</a>
<b>Locus ID:</b>	219972
<b>UniProt ID:</b>	<a href="#">Q2M385</a>
<b>RefSeq Size:</b>	4527
<b>Cytogenetics:</b>	11q12.1
<b>RefSeq ORF:</b>	2148
<b>Synonyms:</b>	Mpg-1; MPG1; MPS1; P-2
<b>Summary:</b>	Plays a key role in the innate immune response following bacterial infection by inserting into the bacterial surface to form pores (By similarity). By breaching the surface of phagocytosed bacteria, allows antimicrobial effectors to enter the bacterial periplasmic space and degrade bacterial proteins such as superoxide dismutase sodC which contributes to bacterial virulence (By similarity). Shows antibacterial activity against a wide spectrum of Gram-positive, Gram-negative and acid-fast bacteria (PubMed:23753625, PubMed:26402460, PubMed:30609079). Reduces the viability of the intracytosolic pathogen <i>L.monocytogenes</i> by inhibiting acidification of the phagocytic vacuole of host cells which restricts bacterial translocation from the vacuole to the cytosol (By similarity). Required for the antibacterial activity of reactive oxygen species and nitric oxide (By similarity).[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Transmembrane

### Product images:



Coomassie blue staining of purified MPEG1 protein (Cat# [TP324739]). The protein was produced from HEK293T cells transfected with MPEG1 cDNA clone (Cat# [RC224739]) using MegaTran 2.0 (Cat# [TT210002]).