

## Product datasheet for **RC224739L4V**

### **MPEG1 (NM\_001039396) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

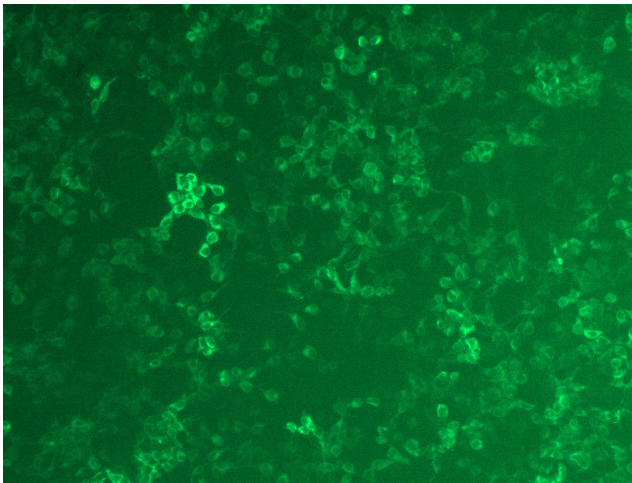
Product Type:	Lentiviral Particles
Product Name:	MPEG1 (NM_001039396) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MPEG1
Synonyms:	Mpg-1; MPG1; MPS1; P-2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001039396
ORF Size:	2148 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224739).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001039396.1</a> , <a href="#">NP_001034485.1</a>
RefSeq Size:	4527 bp
RefSeq ORF:	2151 bp
Locus ID:	219972
UniProt ID:	<a href="#">Q2M385</a>
Cytogenetics:	11q12.1
Protein Families:	Transmembrane
MW:	78.6 kDa



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**Gene Summary:**

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 *L.monocytogenes* 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]

**Product images:**

[RC224739L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC224739L4V particle to overexpress human MPEG1-mGFP fusion protein.