

## Product datasheet for **RN205124**

### Mavs (NM\_001005556) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mavs (NM_001005556) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mavs
Synonyms:	Visa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN205124 representing NM\_001005556  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACATTTGCTGAGGAAAAGACCTATAAGTATATCCGCTACAACCACAGCAAGTTTTGCTGTGTTGATG  
 TTCTGGAGATCCTGCCTTACCTGTCTGCCTCACAAACAGTGACCAGGATCGATTACGGGCTTCCTACAA  
 GCAACTAGGAAAACAGGGCACACTCTGGGAACTCTTCAATACGCTCCAGCGTCGGCCTGGCTGGGTAGAG  
 GTCTTCATCCGGGCACTGAGGATCTGTGAGCTGCCTGGGCTGGCTGAGCAAGTACTCGAGTTTATCAGA  
 GCTACCTGCCTCCTGGGGCCTCACTCCACTCCCTAGACCCATTGCAGTCACCAAGAATTCCTACCACGGT  
 TTCCGAACCTTCTGCATTTGAGCAGGCCACACCATCCCTGACAGTGGCTTCCAAGATAAACCCAGGTTAC  
 CCTAAGCCTGTCCAGGACACCCAGCCACCAAGTCCCCAGTAGAGAATTCGGAGGAACCCCCACAGGCCA  
 ACTTTGGGGCCATTCCAAGGATGTGGGTGACTCTTTGATATCCTCACCTAACCCACCGGCCCTCAGCCC  
 TCAGCCCTCCAGAGAGCATCCCAGCAAGAACCCGAAGTGGGGGGCCCTCCACAGCAAATGTTGACTCT  
 GTTCCCATAGCAACCTATGGACCTGTGTCTCCAAGTGTTCCTCCAGCCCTTCCACGTATTGCCCCGA  
 GGCAAACCTCTCGCCTGGGGTCACAGTATCAGCTCTATCTGCCAAGACCACTTTGCTCCTCTTCTAC  
 TGGATCAGCTTTTCAAAGGGGAGCAGGTGACCAGGCCAAGGCTGCCACCTGTGTCAGCACTAAAGAGGGA  
 GTACCTACCAATTCTGTGACTACCAGCTCAGTGCCTTCCATCAAACCAAGTACCAGTAAATACCATGTCTT  
 CCAAGTTGCCATCAGTACAAAGTCCACTGCTGCAACGCCCTCTACTGTGCCACTAATATAGCGCCATC  
 AAAATTACCCATCAACTCAGTATATACTGGCATAGTGCCATCAAAGTACTGCTAGTGTGGCAAAGCA  
 AGTGCCAGCACAATGCCACCTGAGAGGAACAACAAGCAAGCAAGGAGACCCTGGAGGCTCCAGCAACCG  
 TAGTCACCACTGGAAGCAGCCTGACCAGACCAGATATCAGTTCCAGGAGCTTGCCTCTGGGCCAGAGTT  
 AAGCAAGCCAGGGGTGCTGGTGTCCCAGGTGGACAACGAGCCATTCTCAGCCTGCCTATGGACCTTGCC  
 ATCAGCCCTAGCACCTCCTTGGGCTCAGAACCCAAACATGGTCCAGAGGAGAATGAGTATTCATCCTTTC  
 GAATCCAGGTGGATAAAAAGTCCCAGTGTGATCTGTTAGGAAGCCCTGAGCCACTAGCCACCCAGCAGTC  
 CCCAGAAGAGGAAGACCTTGTGCCAGTTCAGTGTCTGGGCTAAGTGGCTGGGGGCCACCAGTGCACCT  
 TTGGCTGCATTCTGGCAGTGATGCTCTACCGTAGCAGGCACCTGGCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001005556

**Insert Size:** 1524 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:** [NM\\_001005556.1](#), [NP\\_001005556.1](#)

**RefSeq Size:** 2965 bp

**RefSeq ORF:** 1524 bp

**Locus ID:** 311430

**UniProt ID:** [Q66HG9](#)

**Cytogenetics:** 3q36

**Gene Summary:** Required for innate immune defense against viruses. Acts downstream of DHX33, DDX58/RIG-I and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFN-beta and RANTES (CCL5). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state. Upon viral infection, peroxisomal MAVS induces the rapid interferon-independent expression of defense factors that provide short-term protection, whereas mitochondrial MAVS activates an interferon-dependent signaling pathway with delayed kinetics, which amplifies and stabilizes the antiviral response. May activate the same pathways following detection of extracellular dsRNA by TLR3. May protect cells from apoptosis.[UniProtKB/Swiss-Prot Function]