

Product datasheet for **RR205124**

Mavs (NM_001005556) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR205124 representing NM_001005556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACATTTGCTGAGAAAAGACCTATAAGTATATCCGCTACAACCACAGCAAGTTTGGCTGTGTTGATG
 TTCTGGAGATCCTGCCTTACCTGTCCTGCCTCACAAACAGTGACCAGGATCGATTACGGGCTTCTACAA
 GCAACTAGGAAACCAGGGCACACTCTGGGAACCTTCAATACGCTCCAGCGTCGGCTGGCTGGGTAGAG
 GTCTTCATCCGGGCACTGAGGATCTGTGAGCTGCCTGGGCTGGCTGAGCAAGTACTCGAGTTTATCAGA
 GCTACCTGCCTCTGGGGCTCACTCCACTCCCTAGACCCATTGCAGTCACCAAGAATTCCTACCACGGT
 TTCCGAACCTTCTGCATTTGAGCAGGCCACACCATCCCTGACAGTGGCTTCCAAGATAAACAGGTTAC
 CCTAAGCCTGTCCAGGACACCCAGCCACCAAGTCCCCAGTAGAGAATTCGGAGGAACCCCCACAGGCCA
 ACTTTGGGGCCATTCCAAGGATGTCGGGTGACTCTTTGATATCCTCACCTAACCCACGGCCCTCAGCCC
 TCAGCCCTCCAGAGAGCATCCCAGCAAGAACCCGAAGTGGGGGGCCCTCCACAGCAAATGTTGACTCT
 GTTCCCATAGCAACCTATGGACCTGTGTCTCCAAGTGTTCCTTCCAGCCCTTCCACGTATTGCCCCGA
 GGCAAACCTCTCGCTGGGGTACAGTATCAGCTCTATCTGCCAAGACCACTTTGTCCTCTCTCTAC
 TGGATCAGCTTTTCAAAGGGAGCAGGTGACCAGGCCAAGGCTGCCACCTGTGTCAGCACTAAAGAGGGA
 GTACCTACCAATTCTGTGACTACCAGCTCAGTGCCTTCCATCAAACCAAGTACCAGTAAATACCATGTCTT
 CCAAGTTGCCATCAGTACAAAGTCCACTGCTGCAACGCCCTCTACTGTGCCACTAATATAGCGCCATC
 AAAATTACCCATCAACTCAGTATATACTGGCATAGTGCCATCAAAGTACTGCTAGTGTGGCAAAGCA
 AGTGCCAGCACAATGCCACCTGAGAGGAACAACAAGCAAGCAAGGAGACCCTGGAGGCTCCAGCAACCG
 TAGTCACCACTGGAAGCAGCCTGACCAGACAGATATCAGTTCAGGAGCTTGCCTCTGGGCCAGAGTT
 AAGCAAGCCAGGGGTGCTGGTGTCCAGTGGACAACGAGCCATTCTCAGCCTGCCTATGGACCTTGCC
 ATCAGCCCTAGCACCTCCTTGGGCTCAGAACCCAAACATGGTCCAGAGGAGAATGAGTATTCATCCTTTC
 GAATCCAGGTGGATAAAAGTCCCAGTGTGATCTGTTAGGAAGCCCTGAGCCACTAGCCACCCAGCAGTC
 CCCAGAAGAGGAAGACCTTGTGCCAGTTCAGTGTCTGGGCTAAGTGGCTGGGGCCACCAGTGCACCT
 TTGGCTGCATTCTGGCAGTGATGCTCTACCGTAGCAGGCACCTGGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205124 representing NM_001005556
 Red=Cloning site Green=Tags(s)

MTFAEEKTYKYIRYNHSKFCCVDVLEILPYLSCLTTSQDRLRASQKQLGNQGLWELFNTLQRRPGWVE
 VFIRALRICELPGLAEQVTRVYQSYLPPGASLHSLDPLQSPRIPTTVSEPSAFAAGHTIPDSGFQDKPGY
 PKPVQDTQPPKSPVENSEEPPQANFGAIPRMSGDSLISPNPPALSPQPSREHPEQEPELGGPSTANVDS
 VPIATYGPVSPVTFQPLPRIAPRNLSPGVTVSALSATKTLSSSSTGSFAKAGDQAKAATCVSTKEG
 VPTNSVTTSSVPSIKPVPVNTMSSKLPISKSTAATPSTVPTNIAPSKLPINSVYTGIVPSKVTASVAKA
 SASTMPPERNKQAKETLEAPATVVTTGSSLTRPDISSRSLHSGPELSPKGVLVQVDNEPFSACSMDLA
 ISPSTSLGSEPNHGPEENEYSSFRIQVDKSPSVDLLGSPEPLATQQSPEEEEEPCASSVSWAKWLGATSAL
 LAAFLAVMLYRSRHLAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001005556

ORF Size: 1521 bp

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

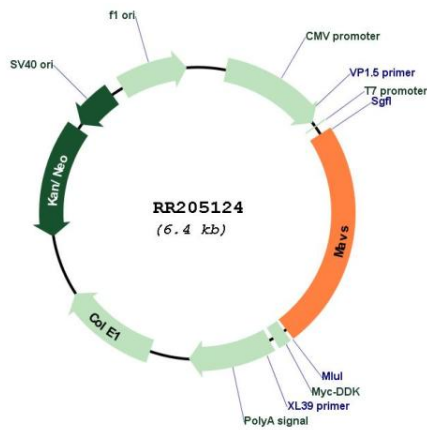
UniProt ID: [Q66HG9](#)

Cytogenetics: 3q36

MW: 53.8 kDa

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]

Product images:



Circular map for RR205124