

Product datasheet for **RR212057**

Mefv (NM_031634) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mefv (NM_031634) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mefv
Synonyms:	pyrin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide
Sequence:**

>RR212057 representing NM_031634
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAATACCGTGTGGACCATCTGCTAAACACCCCTGGAGGAGCTGCTGCCCTATGAACTAGAGAAAT
 TCAAGTTTAAAGTTGCACACCACCAGCCTGGAGAAGGGCCACTCTAGGATCCCCCTGAGCCTCGTGAAGAT
 GGCCAGGCCAATAAAGCTGACCAGACTCCTGCTAACCTACTATGGGGAAGAATATGCTGTAAAGGCTGACC
 CTGCAGATCCTGCGGGCCACCAACCAGCGCCAAGTAGCAGAGGAGCTTACAAGGCCACAGGCCCAGAAC
 ATTTGACTGAAGAAAATGGAGTTGGCGTTCTGTGCACTCTTCTGCAGAGAATAAGGACAAGGGTGTGAA
 GGGATCAGATGTCCTTGGAGAGGATGAGGCACAGCAGAACGATGATGAATCAGACATCCTGCCACCCATC
 CAGGCAGAAGTGGGAAGGGGCCCAGAAGAAATCACTGGCCAAAAGGAAGGATCAGAGGGGCCCTGAGA
 GCCTGGACTCACAGACCAAGCCAGGGGCCAGGAGTGCAGCACCCTCTATAGGAGAACCCTGGTGACCCA
 GTCCCCAGGGGACAAGGAGAACAGAGCGGGTGCTCAGACTCCGCAGAATGCCAGCTCTGCAGGGAGGCT
 GCAAGGAACTCTACAGCAATGTCCAGGGAGGAGAGATCAAGAAGGCTGAAGTGTATTGCTTCAGG
 AAAGAAGCGACCCAGGAGTCTTGAAATACCCTTACTCAAAAAGGAGAAACCCCAAATTCAGAAGCT
 CTTCCGACTCAAGAGGAAACAAGAAATGGCAGTCTCATTCTGACGAGAAACAGCCACCCTGAATGGAAGG
 ACTACGGGGACTCTGAAAAGGGTGTAGGGATTCCAGAACATTCATGATGCTGGATGAAGAAAATCCA
 GAAACATGTCTTCCAAAATATCGTTGACTAGGGAGAAGAGATGCACTGCGTCATGGACAGAAAATGGAAA
 CGGGGGTCCAGAAACCCAGAGACCTTGGGAGAGACAGTCAGCAGCACTCTGTGACTCCTGCAGTCCA
 AAAGTGTGCTGTCTATTAGGTGAAAACTGGCCAGACTCCAGAAGACCCAGCATCTTTAGGACAGGCAG
 CTTCTAAAGGAAGTACGGGACAAGGTTGCATGCCCTTTTCCACACCCAAGGAGAATGCCTGTCTAA
 GGCTGTGTGCAAAGTTCCTGTAGCTGCTCGGTTGCTCCTGGGGACCCCAAGGCCCTCAGGCAGATGCTCC
 ATATGCTTCCAGTGCCAAAGCTCGCGTGCAGGAAAGAGCTGTGAAGCCAGAGCCCCAGTTCTACCAC
 AGTGCCACGTCACATGAAGCAGGTGCAGCTGCTTTTCTGTGAGGACCACAGGGAGCCCCTGCCTCAT
 CTGCAGGCTGAGCCAGGAGCATCAAGGACATCGAGTGCGCCCATAGAGGAGGCTGCACTACAGTACAAG
 GAGCAGATCCGGAAGCAGTTGGAGCGCCTGCGNGAGATGAGGGGATATGTGGAGGAGCACAAGCTCCGG
 CAGACAAGAAAGCAGAGGACTTCTGAAACAAACAGAACTCAGAAACAGAGGATATCATGTCCGCTTGA
 GAAGCTATTCCAATTCTGGAGCAGCAAGAGCAACTCTTTGTGACCTGGCTGCAGGAGCTAGTCCAGACC
 ATCGGCAAGGTCCGAGAGACATACTACACCCAGGTTTCCCTACTGGATAAGCTGATTGGAGAAGTAGAGG
 CCAAGCAAGACCAGCCAGAGTGGGAGCTCATGCAGGACATTGGAGCCACCTTGCACAGGGCTGAGACGAT
 GACTGCCTCTGAGCTGTTGGGCATTCTCCAGGCGTTAAAGAAAACTGCACCTGCTCTACCAGAAATCA
 AAGTCCGCCGAGAAGAATATGCAGCGTTTCTCAGAAATGCTGGGCTCCGAAATGGCATTACAGCGTTTCAG
 ATGTAGCAACACGGGAAGGGTGCAGGCCTAGCACAACCAAGGCCAGGCCCTTGATCCCCACCGTTACCT
 AAAGTGTGATGGTGCACACACAGGATTTTCGATGTAATACTTTGCGCAGAGCTGGAAGCTGGAGGATCA
 GAACCTCAAGATTACCTTCATCCATCGTCAGCTCAAGACACACCTGAGCTACACGAGATCCATTCTCAGA
 ACAACAAAAGAAAATTTAAATCTTCTGAAAGTGGAAACCTTCTTCTCCAGAACCGACAGGTGCTTAAG
 AACATGCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212057 representing NM_031634
 Red=Cloning site Green=Tags(s)

MANTRVDHLLNLTLEELLPYELEKFKFKLHTTSLEKGHSRIPLSLVKMARPIKLTRLLLTYGEEYAVRLT
 LQILRATNQRLAEELHKATGPEHLTEENGVGGSVQSSAENKDKGVKGSVDLGEDEAQQNDDESILPPI
 QAEVKGQPQKSLAKRKDQRPESLDSQTKPGARSAAPLYRRTLVTQSPGDKENRAGAQTTPQNAQLCREA
 ARNSTAMSQGGERSRLKICLQERSDPGVLKPLTQKKENPQIQKLFRLKRRQEMAVSFVRETATLNGR
 TTGTLEKGVGIPEHSMMLDEETS RNMSKISLTREKRCTASWTENGGPETPETLGETVSSILCDSCSP
 KVLLSLGEKLAQTPEDPASLGQAASKGRSRDKVACPLCHTQGELPAKACVQSSCSCSVAPGDPKASGRCS
 ICFQCQSSRAGKSCEAQSPQFLPQCPRHMKQVQLLFCEDHREPICLICRLSQEHQGHRVRPIEEAALQYK
 EQIRKQLERLXEMRGYVEEHKLPADKKAEDFLKQTETQKQRISCPLEKLFQFLEQQEQLFVTWLQELVQT
 IGKVVRETYTQVSLLDKLI GELEAKQDQPEWELMQDIGATLHRAETMTASELLGIPPGVKEKHLHLLYQKS
 KSAEKNMQRFSEMLGSEMAFSASDVATREGCRPSTTKAQUALIPTVHLKCDGAHTQDFDVLCAELEAGGS
 EPQDYLHPSSAQDTPELHEIHSQNNKRKFKSFLKWKPSFSRTDRCLRTCW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

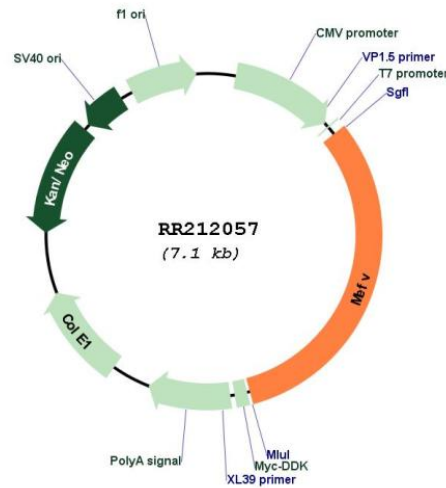
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_031634

ORF Size: 2250 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_031634.1](#), [NP_113822.1](#)

RefSeq Size: 3231 bp

RefSeq ORF: 2253 bp

Locus ID: 58923

UniProt ID: [Q9JJ25](#)

Cytogenetics: 10q12

MW: 84 kDa

Gene Summary: Involved in the regulation of innate immunity and the inflammatory response in response to IFNG/IFN-gamma. Organizes autophagic machinery by serving as a platform for the assembly of ULK1, Beclin 1/BECN1, ATG16L1, and ATG8 family members and recognizes specific autophagy targets, thus coordinating target recognition with assembly of the autophagic apparatus and initiation of autophagy. Acts as an autophagy receptor for the degradation of several inflammasome components, including CASP1, NLRP1 and NLRP3, hence preventing excessive IL1B- and IL18-mediated inflammation. However, it may also have a positive effect in the inflammatory pathway. In different experimental systems, it has been shown to activate IL1B production. It has also been shown to be required for PSTPIP1-induced PYCARD oligomerization and for formation of inflammasomes. Recruits PSTPIP1 to inflammasomes, and is required for PSTPIP1 oligomerization.[UniProtKB/Swiss-Prot Function]