

Product datasheet for **RN212057**

Mefv (NM_031634) Rat Untagged Clone

Product data:

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



[View online »](#)

Fully Sequenced ORF: >RN212057 representing NM_031634
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAATACCGTGTGGACCATCTGCTAAACACCCCTGGAGGAGCTGCTGCCCTATGAACTAGAGAAAT
 TCAAGTTTAAAGTTGCACACCACCAGCCTGGAGAAGGGCCACTCTAGGATCCCCCTGAGCCTCGTGAAGAT
 GGCCAGGCCAATAAAGCTGACCAGACTCCTGCTAACCTACTATGGGGAAGAATATGCTGTAAAGGCTGACC
 CTGCAGATCCTGCGGGCCACCAACCAGCGCCAAGTAGCAGAGGAGCTTCAAGGCCACAGGGCCAGAAC
 ATTTGACTGAAGAAAATGGAGTTGGCGTTCTGTGCACTCTTCTGCAGAGAATAAGGACAAGGGTGTGAA
 GGGATCAGATGTCCTTGGAGAGGATGAGGCACAGCAGAACGATGATGAATCAGACATCCTGCCACCCATC
 CAGGCAGAAGTGGGAAGGGGCCAGAGAATACTGGCCAAAAGGAAGGATCAGAGGGGCCCTGAGA
 GCCTGGACTCACAGACCAAGCCAGGGGCCAGGAGTGCAGCACCCTCTATAGGAGAACCCTGGTGACCCA
 GTCCCCAGGGGACAAGGAGAACAGAGCGGGTGCTCAGACTCCGCAGAATGCCAGCTCTGCAGGGAGGCT
 GCAAGGAACTCTACAGCAATGTCCAGGGAGGAGAGATCAAGAAGGCTGAAGTGTATTGCTTCAGG
 AAAGAAGCGACCCAGGAGTCTTGAAATACCCTTACTCAAAAAGAGGAGAACCCCAAAATTCAGAAGCT
 CTTCCGACTCAAGAGGAAACAAGAAATGGCAGTCTCATTTCGACGAGAAACAGCCACCCTGAATGGAAGG
 ACTACGGGGACTCTGAAAAGGGTGTAGGGATTCCAGAACATTCATGATGCTGGATGAAGAAAATCCCA
 GAAACATGTCTTCCAAAATATCGTTGACTAGGGAGAAGAGATGCACTGCGTCATGGACAGAAAATGGAAA
 CGGGGGTCCAGAAACCCAGAGACCTTGGGAGAGACAGTCAGCAGCATACTCTGTGACTCCTGCAGTCCA
 AAAGTGTGCTGTCTATTAGTGAAAACTGGCCAGACTCCAGAAGACCCAGCATCTTTAGGACAGGCAG
 CTTCTAAAGGAAGTACGGGACAAGTTGCATGCCCTTTTCCACACCCAAGGAGAATGCCTGTCTAA
 GGCTGTGTGCAAAGTTCCTGTAGCTGCTCGGTTGCTCCTGGGGACCCCAAGGCCCTCAGGCAGATGCTCC
 ATATGCTTCCAGTGCCAAAGCTCGCGTGCAGGAAAGAGCTGTGAAGCCAGAGCCCCAGTTCTACCAC
 AGTGCCACGTCACATGAAGCAGGTGCAGCTGCTTTTCTGTGAGGACCACAGGGAGCCCCTGCTCAT
 CTGCAGGCTGAGCCAGGAGCATCAAGGACATCGAGTGCGCCCATAGAGGAGGCTGCACTACAGTACAAG
 GAGCAGATCCGGAAGCAGTTGGAGCGCCTGCGNGAGATGAGGGGATATGTGGAGGAGCACAAGCTCCGG
 CAGACAAGAAAGCAGAGGACTTCTGAAACAAACAGAACTCAGAAACAGAGGATATCATGTCCGCTTGA
 GAAGCTATTCCAATTCCTGGAGCAGCAAGAGCAACTCTTTGTGACCTGGCTGCAGGAGCTAGTCCAGACC
 ATCGGCAAGGTCCGAGAGACATACTACACCCAGGTTTCCCTACTGGATAAGCTGATTGGAGAAGTAGAGG
 CCAAGCAAGACCAGCCAGAGTGGGAGCTCATGCAGGACATTGGAGCCACCTTGCACAGGGCTGAGACGAT
 GACTGCCTCTGAGCTGTTGGGCATTCTCCAGGCGTTAAAGAAAACTGCACCTGCTCTACCAGAAATCA
 AAGTCCGCCGAGAAGAATATGCAGCGTTTCTCAGAAATGCTGGGCTCCGAAATGGCATTACAGCGTTTCA
 ATGTAGCAACACGGGAAGGGTGCAGGCCTAGCACAACCAAGGCCAGGCTTGCATCCCCACCGTTACCT
 AAAGTGTGATGGTGCACACACAGGATTTTCGATGTAATACTTTGCGCAGAGCTGGAAGCTGGAGGATCA
 GAACCTCAAGATTACCTTCATCCATCGTCAGCTCAAGACACACCTGAGCTACACGAGATCCATTCTCAGA
 ACAACAAAAGAAAATTTAAATCTTCTGAAAGTGGAAACCTTCTTCTCCAGAACCGACAGGTGCTTAA
 AACATGCTGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_031634
Insert Size: 2253 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:	<ol style="list-style-type: none">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
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]