

Product datasheet for **MC221444**

Mefv (NM_019453) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Mefv (NM_019453) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mefv |
| Synonyms: | FMF; pyrin; TRIM20 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC221444 representing NM_019453
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAAGACCTTGGTGATCATCTGCTAAACACCCCTGGAGGAGCTGCTGCCCTATGACTTTGAGAAGT
 TCAAGTTTAAAGCTACAGAACACCAGCCTGGAGAAGGGCCACTCTAAGATCCCCCGGGCCATATGCAGAT
 GGCCAGGCCAGTAAAGCTGGCCAGCCTTCTGATAACCTACTACGGGGAGGAGTATGCTGTAAAGGCTGACC
 CTGCAGATCCTGCGGGCCACCAACCAGCGCCAAGTACGAGAGGAGCTTCGCAAAGCCACAGGCACAGAAC
 ATTTAATTGAAGAAAATAGAGTTGGTGGTCTGTCCAGTCTTCTGTAGAGAATAAAGCCAAGAGTGTGAA
 GGTACCAGATGTCCTGAAGGTGATGGGACACAGCAAACAATGATGAATCAGACACCCTTCCATCCAGC
 CAGGCTGAAGTGGGAAGGGACCCAGAAGAAGTCACTGACCAAAGGAAGGATCAGAGGGGCCCGGAGA
 GCCTGGACTCACAGCAAGCCATGGACAAGGAGCACAGCGCCTCTCTATAGGAGAACCCAGGGCACCCA
 GTCCCCAGGGGATAAGGAGAGCACAGCAAGTGCCAGCTCCGAGGAATGTCAGCTCTGCAGGGAGGCTT
 CAAGGACTTTACAACAATGCCCCAGGGAGGAGAGAAAGCAAGAAAGCCGAAGTGTATGTATTTGCCTT
 CAGGAAAGAAGCGACCCAGGAGTCTTGAATTACCACTTATTCAAGAGAAGGAGAACCCCAAAATTCAGA
 AGTTCTTCCAACCTCAAGAGGAAACAAGAAATGGGAGTCTCATTGCGATGAGAACGACTACTCTGAATGGA
 AGGACTACGGGGCTTTAGAAAAGGGCACAGGGATTCCAGAGCATTCCATGGTGTGGATGAAAAACAT
 TCAGAAACATGTCTTCCAAAACATCGTTGATTGGGGAGGAGAGATGCCCTACATCATGGACGGAAAAATGG
 AAATGGGAGTCCAGAAACCACAGAGTCTCGGGAGAGACGGCTGGCAGCATACTCTCTGATCCAGAAGTG
 CCTTTGTCACTATGTGAAAAACAGCTAAAACCTCAGAAGACCCAGCATCCTTAGGACAGGCCGCTTGTG
 AAGGAAGGTCACAGGACAAGGCTGTGTGCCCTTTGCCACCCAGGAAGGAGACCTGCGTGGTGGTATAC
 CTGTGTGCAAAGTTCCTGTAGCTGCTCCATTGCTCCTGGGGATCCCAAGGCCTCCGGCAGATGCTCCATA
 TGCTTTAGTGCCAAGGCTTACTTGCCAGAAAAGCTGCGAAGCCAGAGCCCCAGTCCCTACACAGT
 GCCCTCGTACATGAAGCAGGTGCTGCTGCTTTTCTGTGAGGACCACAGGGAGCCCATCTGCCTCATCTG
 CAGGCTGAGCCTGGAGCATCAAGGACATCGAGTGCGCCCATAGAGGAGGCTGCACTAGAGTACAAGGAG
 CAGATCCGGGAGCAGCTGGAGCGCCTGCGGGAGATGAGGGGATATGTGGAGGAGCACAGGCTACAGGGAG
 ACAAGAAAACAGACGATTTCTGAAACAAACAGAAATCCAGAAGCAGAAGATTTTCATGTCCACTTGAGAA
 GCTATACCAACTCCTGGAGAAGCAAGAACAACCTTTTGTGACCTGGCTACAGGAGCTAAGCCAGACCATC
 AGCAAGGTCAGAGAGACATACTACACCCGGGTTCCCTACTGGATGAGATGATTGAAGAACTAGAGGCCA
 AGCAAGACCAGCCAGAGTGGGACCTCATGCAGGACATTGGAATCACCTTGACAGGGCTAAGATGATGTC
 TGCCCTGAGCTGTTGGACACTCCTCCAGGTGTTAAAGAAAAGCTTCATCTGCTCTACCAGAAGTCAAAG
 TCTGTGGAGAAGAATATGCAGTGTTTCTCAGAAATGCTGAGCTCTGAAATGGCATTACAGCGCTTCAGATG
 TAGCAAAATGGGAAGGGCGCCAGCCTAGCGCCACACAGGTCAGGGCTTGGTTCCACCGTTACCTAAA
 GTGTGATGGTGCACACACAGGACTGTGATGTAGTATTTTACCCAGAACGGGAAGCTGGAGGATCAGAA
 CCTAAAGATTACCTTCATCCTCAGCCAGCTCAAGACACACCTGAGCTACATGAGATCCATTCTCGGAACA
 ACAAAAAGAAAATTTAAATCTTTCCTGAAATGAAAACCTTATTCTCCAGAACTGACTGGCGCTTAAAGAAC
 ATGCTGTTACCGTGATTTGGACCAAGCAGCTGCTCACCCCAACCTCATCTCTCGATGATA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_019453
Insert Size: 2304 bp

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| 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_019453.2 , NP_062326.2 |
| RefSeq Size: | 3126 bp |
| RefSeq ORF: | 2304 bp |
| Locus ID: | 54483 |
| UniProt ID: | Q9JJ26 |
| Cytogenetics: | 16 2.18 cM |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (3) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 3, which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |