

## Product datasheet for **MC221233**

### Mefv (NM\_001161791) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mefv (NM_001161791) 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:** >MC221233 representing NM\_001161791  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAAGACCCCTTGGTGATCATCTGCTAAACACCCCTGGAGGAGCTGCTGCCCTATGACTTTGAGAAGT  
 TCAAGTTTAAGCTACAGAACACCAGCCTGGAGAAGGGCCACTCTAAGATCCCCGGGGCCATATGCAGAT  
 GGCCAGGCCAGTAAAGCTGGCCAGCCTTCTGATAACCTACTACGGGGAGGAGTATGCTGTAAGGCTGACC  
 CTGCAGATCCTGCGGGCCACCAACCAGCGCCAAGTACGAGAGGAGCTTCGCAAAGCCACAGGCACAGAAC  
 ATTTAATTGAAGAAAATAGAGTTGGTGGTCTGTCCAGTCTTCTGTAGAGAATAAAGCCAAGAGTGTGAA  
 GGTACCAGATGTCCTGAAGGTGATGGGACACAGCAAAACAATGATGAATCAGACACCCTTCCATCCAGC  
 CAGGCTGAAGTGGGAAGGGACCCAGAGAAGTCACTGACCAAAAGGAAGGATCAGAGGGGCCCCGAGA  
 GCCTGGACTCACAGCAAGCCATGGACAAGGAGCACAGCGCCTCTATAGGAGAACCCAGGGCACCCA  
 GTCACAGGGGATAAGGAGAGCACAGCAAGTGCCAGCTCCGAGGAATGTCAGCTCTGCAGGGAGGCTT  
 CAAGGACTTTACAACAATGCCCCAGGGAGGAGAGAAAGCAAGAAAGCCGAAGTGTATGTATATTTGCCTT  
 CAGGAAAAGAGCGACCCAGGAGTCTTGAATTACCACTTATTCAAGAGAAGGAGAACCCCAAAATTCAGA  
 AGTTCTTCCAACCTCAAGAGGAAACAAGAAATGGGAGTCTCATTGCGATGAGAACGACTACTCTGAATGGA  
 AGGACTACGGGGCTTTAGAAAAGGGCACAGGGATTCCAGAGCATTCCATGGTGTGGATGAAAAACAT  
 TCAGAAACATGTCTTCCAAAACATCGTTGATTGGGGAGGAGAGATGCCCTACATCATGGACGGAAAAATGG  
 AAATGGGAGTCCAGAAACCACAGAGTCTCGGGAGAGACGGCTGGCAGCATACTCTCTGATCCAGAAGTG  
 CCTTTGTCACTATGTGAAAAACAGCTAAAACCTCAGAGAAGACCCAGCATCCTTAGGACAGGCCGCTTGTG  
 AAGGAAGTCCAGGACAAGGCTGTGTGCCCTTTGCCACACCCAGGAAGGAGACCTCGTGGTGATGATC  
 CTGTGTGCAAAGTTCCTGTAGCTGCTCATTGCTCCTGGGGATCCCAAGGCCTCCGGCAGATGCTCCATA  
 TGCTTTAGTGC AAGGCTTACTTGCCAGAAAAGCTGCGAAGCCAGAGCCCCAGTCCCTACACAGT  
 GCCCTCGTACATGAAGCAGGTGCTGCTGCTTTTCTGTGAGGACCACAGGGAGCCCATCTGCCTCATCTG  
 CAGGCTGAGCCTGGAGCATCAAGGACATCGAGTGCGCCCATAGAGGAGGCTGCACTAGAGTACAAGGAG  
 CAGATCCGGGAGCAGCTGGAGCGCTGCGGGAGATGAGGGGATATGTGGAGGAGCACAGGCTACAGGGAG  
 ACAAGAAAACAGACGATTTCTGAAACAAACAGAAATCCAGAAGCAGAAGATTTTCATGTCCACTTGAGAA  
 GCTATACCAACTCCTGGAGAAGCAAGAACAACCTTTGTGACCTGGCTACAGGAGCTAAGCCAGACCATC  
 AGCAAGGTCAGAGAGACATACTACACCCGGTTTCCCTACTGGATGAGATGATTGAAGAACTAGAGGCCA  
 AGCAAGACCAGCCAGAGTGGGACCTCATGCAGGACATTGGAATCACCTTGCACAGGGCTAAGATGATGTC  
 TGCCCTGAGCTGTTGGACACTCCTCCAGGTGTTAAAGAAAAGCTTCATCTGCTCTACCAGAAGTCAAAG  
 TCTGTGGAGAAGAATATGCAGTGTTTCTCAGAAATGCTGAGCTCTGAAATGGCATTACAGCGCTTCAGATG  
 TAGCAAAATGGGAAGGGCGCCAGCCTAGCGCCACACAGGTCAGGGCTTGGTTCCACCCTTACCTAAA  
 GTGTGATGGTGCACACACAGGACTGTGATGTAGTATTTTACCCAGAACGGGAAGCTGGAGGATCAGAA  
 CCTAAAGATTACCTTCATCCTCAGCCAGCTCAAGACACACCTGAGCTACATGAGATCCATTCTCGGAACA  
 ACAAAGAAAATTTAAATCTTTCCTGAAATGAAAACCTTCATTCTTACCG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001161791  
**Insert Size:** 2223 bp

<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001161791.1</a> , <a href="#">NP_001155263.1</a>
<b>RefSeq Size:</b>	3094 bp
<b>RefSeq ORF:</b>	2223 bp
<b>Locus ID:</b>	54483
<b>Cytogenetics:</b>	16 2.18 cM
<b>Gene Summary:</b>	<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 (2) differs in the 3' UTR and has multiple coding region differences compared to variant 1, one of which results in a frameshift. This results in a shorter isoform (2) with a distinct C-terminus, compared to isoform 1.</p>