

Product datasheet for **MG220046**

Mefv (NM_001161791) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mefv (NM_001161791) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mefv
Synonyms:	FMF; pyrin; TRIM20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220046 representing NM_001161791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAAGACCTTGGTGATCATCTGCTAAACACCCCTGGAGGAGCTGCTGCCCTATGACTTTGAGAAGT
 TCAAGTTTAAGCTACAGAACACCAGCCTGGAGAAGGGCCACTCTAAGATCCCCGGGGCCATATGCAGAT
 GGCCAGGCCAGTAAAGCTGGCCAGCCTTCTGATAACCTACTACGGGGAGGAGTATGCTGTAAAGGCTGACC
 CTGCAGATCCTGCGGGCCACCAACCAGCGCCAAGTACGAGAGGAGCTTCGCAAAGCCACAGGCACAGAAC
 ATTTAATTGAAGAAAATAGAGTTGGTGGTCTGTCCAGTCTTCTGTAGAGAATAAAGCCAAGAGTGTGAA
 GGTACCAGATGTCCTGAAGGTGATGGGACACAGCAAACAATGATGAATCAGACACCCTTCCATCCAGC
 CAGGCTGAAGTGGGAAGGGACCCAGAAGAAGTCACTGACAAAAGGAAGGATCAGAGGGGCCCCGAGA
 GCCTGGACTCACAGCAAGCCATGGACAAGGAGCACAGCGCCTCTCTATAGGAGAACCCAGGGCACCCA
 GTCGCCAGGGGATAAGGAGAGCACAGCAAGTGCCAGCTCCGAGGAATGTCAGCTCTGCAGGGAGGCTT
 CAAGGACTTTACAACAATGCCCCAGGGAGGAGAGAAAAGCAAGAAAGCCGAAGTGTATGTATTTGCCTT
 CAGGAAAGAAGCGACCCAGGAGTCTTGAATTACCACTTATTCAAGAGAAGGAGAACCCCAAAATTCAGA
 AGTTCTTCCAACCTCAAGAGGAAACAAGAAATGGGAGTCTCATTGCGATGAGAACAGCTACTCTGAATGGA
 AGGACTACGGGGCTTTAGAAAAGGGCACAGGGATTCCAGAGCATTCCATGGTGTGGATGAAAAACAT
 TCAGAAACATGTCTTCCAAAACATCGTTGATTGGGGAGGAGAGATGCCCTACATCATGGACGGAAAAATGG
 AAATGGGAGTCCAGAAACCACAGAGTCTCGGGAGAGACGGCTGGCAGCATACTCTCTGATCCAGAAGTG
 CCTTTGCTACTATGTGAAAAACAGCTAAAACCTCAGAAGACCCAGCATCCTTAGGACAGGCCGCTTGTG
 AAGGAAGTCCACAGGACAAGGCTGTGTGCCCTTTGCCACACCCAGGAAGGAGACCTGCGTGGTGATC
 CTGTGTGCAAAGTTCCTGTAGCTGCTCCATTGCTCCTGGGGATCCCAAGGCCTCCGGCAGATGCTCCATA
 TGCTTTAGTGCCAAGGCTTACTTGCCAGAAAGAGCTGCGAAGCCAGAGCCCCAGTCCCTACACAGT
 GCCCTCGTACATGAAGCAGGTGCTGCTGCTTTTCTGTGAGGACCACAGGGAGCCCATCTGCCTCATCTG
 CAGGCTGAGCCTGGAGCATCAAGGACATCGAGTGCGCCCATAGAGGAGGCTGCACTAGAGTACAAGGAG
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 ACAAGAAAACAGACGATTTCTGAAACAAACAGAAATCCAGAAGCAGAAGATTTTCATGTCCACTTGAGAA
 GCTATACCAACTCCTGGAGAAGCAAGAACAACCTTTGTGACCTGGCTACAGGAGCTAAGCCAGACCATC
 AGCAAGGTCAGAGAGACATACTACACCCGGTTTCCCTACTGGATGAGATGATTGAAGAACTAGAGGCCA
 AGCAAGACCAGCCAGAGTGGGACCTCATGCAGGACATTGGAATCACCTTGACAGGGCTAAGATGATGTC
 TGCCCTGAGCTGTTGGACACTCCTCCAGGTGTTAAAGAAAAGCTTCATCTGCTCTACCAGAAGTCAAAG
 TCTGTGGAGAAGAATATGCAGTGTTTCTCAGAAATGCTGAGCTCTGAAATGGCATTACAGCGCTTCAGATG
 TAGCAAAATGGGAAGGGCGCCAGCCTAGCGCCACACAGGTCAGGGCTTGGTTCCACCCTTACCTAAA
 GTGTGATGGTGACACACACAGGACTGTGATGTAGTATTTTACCAGAACGGGAAGCTGGAGGATCAGAA
 CCTAAAGATTACCTTCCTCAGCCAGCTCAAGACACACCTGAGCTACATGAGATCCATTCTCGGAACA
 ACAAAGAAAATTTAAATCTTTCCTGAAATGAAAACCTTATTCTTACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220046 representing NM_001161791
 Red=Cloning site Green=Tags(s)

MAKTLGDHLLNLTLEELLPYDFEKFKFLQNTSLEKGHSKIPRGHMQMARPVKLASLLITYYGEEYAVRLT
 LQILRATNQQLAEELRKATGTEHLIEENRVGGSVQSSVENKAKSVKVPDVPEGDGTQQNDESDTLPS
 QAEVKGKGPQKSLTKRKDQRGPESLDSQTKPWTRSTAPLYRRTQGTQSPGDKESTASAQLRRNVSSAGRL
 QGLYNNAPGRRESKKAEEVYVYLPSTGKRRPRSLIITYSREGEPPNSEVLPTQEETRNGSLIRMRATLNG
 RTTGALEKGTGPIPEHSMVLDEKTFRNMSKSLIGEERCPTSWTENGNNGSPETTESSETAGSILSDPEV
 PLSLCEKPAKTPEDPASLGQAACEGRSQDKAVCPCLCHTQEGDLRGDTCVQSSCSCIAPGDPKASGRCSI
 CFQCQGLLARKSCEAQPQSLPQCPRHMKQVLLLFCEHREPICLICRLSLEHQGHRVRIIEEALEYKE
 QIREQLERLREMRGYVEEHLRQGDKKTDDFLKQTEIQKQKISCPLEKLYLLEKQEQLFVTWLQELSQT
 SKVRETYTRVSLLEDEMIEELEAKQDQPEWDLMDIGITLHRAKMMASSELLDTPPGVKEKLHLLYQKSK
 SVEKNMQCFSEMLSSEMAFSASDVAKWEGRQPSATQVQGLVPTVHLKCDGAHTQDCDVFYPEREAGGSE
 PKDYLHPQPAQDTPELHEIHSRNNKRKFKSFLKWKPSFLP

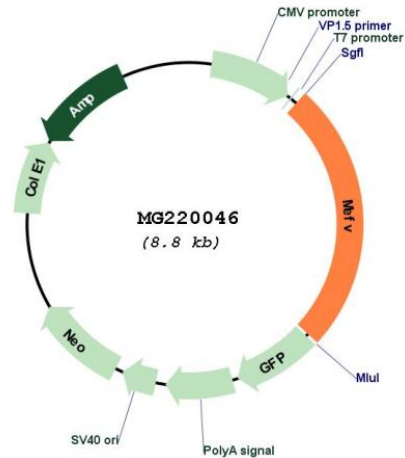
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001161791

ORF Size: 2220 bp

OTI Disclaimer: 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 custsupport@origene.com 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. [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_001161791.1](#), [NP_001155263.1](#)

RefSeq Size: 3094 bp

RefSeq ORF: 2223 bp

Locus ID: 54483

Cytogenetics: 16 2.18 cM

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]