

## Product datasheet for **MR220709**

### Mefv (NM\_019453) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR220709 representing NM\_019453  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAAGACCTTGGTGATCATCTGCTAAACACCCCTGGAGGAGCTGCTGCCCTATGACTTTGAGAAGT  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR220709 representing NM\_019453  
 Red=Cloning site Green=Tags(s)

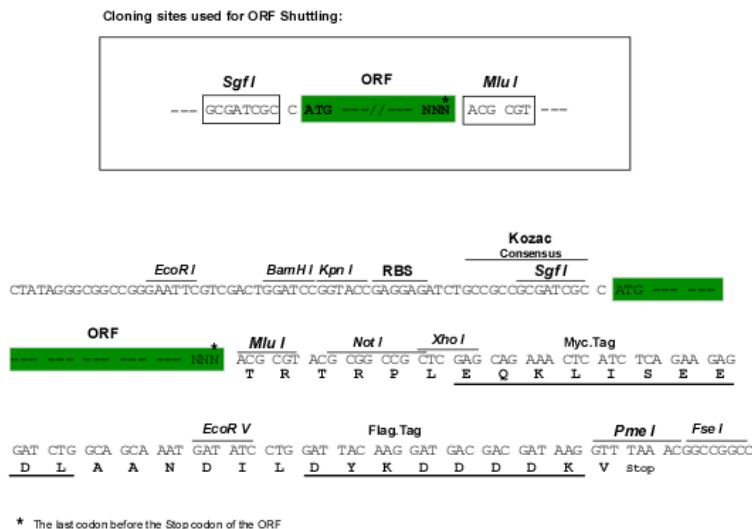
MAKTLGDHLLNLTLEELLPYDFEKFKFLQNTSLEKGHSKIPRGHMQMARPVKLASLLITYYGEEYAVRLT  
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 QIREQLERLREMRGYVEEHLRQGDKKTDDFLKQTEIQKQKISCPLEKLYLLEKQEQLFVTWLQELSQTI  
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 SVEKNMQCFSEMLSSEMAFSASDVAKWEGRQPSATQVQGLVPTVHLKCDGAHTQDCDVFYPEREAGGSE  
 PKDYLHPQPAQDTPELHEIHSRNNKRKFKSFLKWKPSFSRTDWRLRTCCYRDLQAAAHNLIIFSMI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_019453

**ORF Size:** 2301 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\\_019453.2](#), [NP\\_062326.2](#)

**RefSeq Size:** 3126 bp

**RefSeq ORF:** 2304 bp

**Locus ID:** 54483

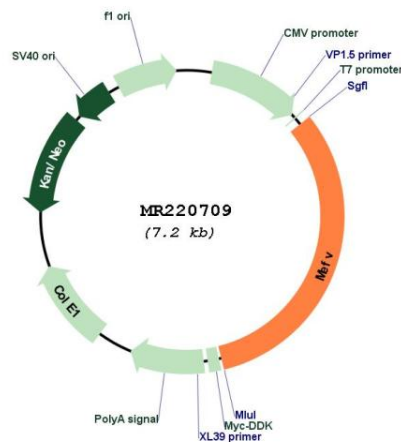
**UniProt ID:** [Q9JJ26](#)

**Cytogenetics:** 16 2.18 cM

**MW:** 86.9 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]

### Product images:



Circular map for MR220709