

## Product datasheet for MR22592

### Irf9 (NM\_008394) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irf9 (NM_008394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irf9
Synonyms:	Irf-9; Isgf3g; p48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR22592 representing NM_008394 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCAGGCAAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCC  
ATTTCCAGGGGTGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCTGGAAGCATGCAGGCAA  
GCAAGACTTCGAGAGGACCAGGATGCTGCCATATCAAGGCTTGGGCACTGTTAAGGAAAAGCACAAA  
GATGGGGACATAGGACACCCCGCTGTCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCGGAAT  
TTGAGGAGGTTCCCGAGAGAGGTCGTATGGATGTTGCTGAACCTACAAAGTATATCGAATACTGCCAGC  
AGGAACCTCCCTAACCAACCACGGAACCAAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTCACCT  
GAGAGGGAAGAAAATATGGAAAATGGGAGGACCAATGGCGTTGTAACCCTCAGACAGTGGCAGCAACA  
TAGGCGGTGGTGGCAATGGCAGCAACAGGAGCGACAGCAACAGCAACTGCAACTCTGAGCTAGAGGAGGG  
AGCTGGCACAACCTGAGGCCACCATAGAGAGGACCCAGTGTTCCTGGAGCATCAACTTCCTCTGAACTCA  
GACTACTCGTGTGCTCACCTTCATCTATGGTGGCCGAGTGGTGGGTAAGACCCAGGTGCACAGCCTAG  
ACTGTCGGCTCGTGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGA  
CCCCTGGAGCCTACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGTCTGGTGGCCAGCAATTCAGA  
GGCCTCTTTGTTGTCAGCGCTTTGCCCATCCCCATCCTGGAATGCACCAGAGGCCCCACCCGGGCTG  
GTCTCATCTGCTGCCAGCAATAAGTGTGGAGCTCTCAAGACCACCTACTTCTGTAGAGATTTGGC  
CCAGTACTTCCAGGGCCAGGGGCCCCACCCAAGTTCCAAGCAACCTACATTTCTGGGAGGAGAGTCTCT  
GGCTCTAGCCATAGCCAAGAGAATCTCATCACAGTGCAGATGGAGCAGGCCTTTGCCGACATTTACTGG  
AGAAGATTCCAGAAGAGGAGAAAGCTGCCTTGTCTGTACAGCACACAGAGCAGTCACCTCTGCTCT  
GGGACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR225592 representing NM\_008394  
Red=Cloning site Green=Tags(s)

MASGKVRCTRKLRSWIVEQVESGHFFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAAIKAWALFKEKHK  
 DGDIGHPAVWKTRLRALNKSSFEFEEVPERGRMDVAEPYKVYRILPAGTLPNQPRNQKSPCKRSISCVSP  
 EREENMENGRTNGVVNHSDSGSNIGGGNGSNRSDSN SNCNSELEEAGTTEATIREDPVFLHQQLPLNS  
 DYSLLLLTFIYGGRRVVGKTQVHSLDCRLVAERSDSESSMEQVEFPKPDPLEPTQHLLNQLDRGVLVASNSR  
 GLFVQRLCPPIISWNAPEAPPGPGPHLLPSNKCVL FKTTFYCRDLAQYFQGGQPPPKFQATLHFWEESP  
 GSSHSQENLITVQMEQAFARHLLLEKIPEEEKAALFLLQHTEQSPSALGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008394

**ORF Size:** 1197 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\\_008394.3](#), [NP\\_032420.1](#)

**RefSeq Size:** 2459 bp

**RefSeq ORF:** 1200 bp

**Locus ID:** 16391

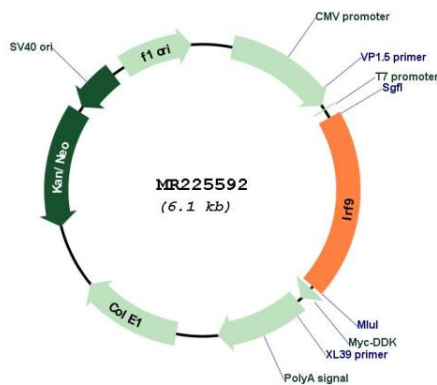
**UniProt ID:** [Q61179](#)

**Cytogenetics:** 14 28.19 cM

**MW:** 44.6 kDa

**Gene Summary:** Transcription factor that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. IRF9/ISGF3G associates with the phosphorylated STAT1:STAT2 dimer to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225592