

## Product datasheet for **MG22592**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irf9 (NM_008394) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irf9
Synonyms:	Irf-9; Isgf3g; p48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG22592 representing NM_008394 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCAGGCAAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCC  
ATTTCCAGGGGTGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCTGGAAGCATGCAGGCAA  
GCAAGACTTCGAGAGGACCAGGATGCTGCCATATCAAGGCTTGGGCACTGTTAAGGAAAAGCACAAA  
GATGGGGACATAGGACACCCCGCTGTCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCGAAT  
TTGAGGAGGTTCCCGAGAGAGGTCGTATGGATGTTGCTGAACCCACAAAGTATATCGAATACTGCCAGC  
AGGAACCTCCCTAACCAACCACGGAACCAAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTCACCT  
GAGAGGGAAGAAAATATGGAAAATGGGAGGACCAATGGCGTTGTAACCCTCAGACAGTGGCAGCAACA  
TAGGCGGTGGTGGCAATGGCAGCAACAGGAGCGACAGCAACAGCAACTGCAACTCTGAGCTAGAGGAGGG  
AGCTGGCACAACCTGAGGCCACCATAGAGAGGACCCAGTGTTCCTGGAGCATCAACTTCCTCTGAACTCA  
GACTACTCGTGTGCTCACCTTCATCTATGGTGGCCGAGTGGTGGGTAAGACCCAGGTGCACAGCCTAG  
ACTGTCGGCTCGTGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGA  
CCCCTGGAGCCTACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGCTCCTGGTGGCCAGCAATTCAGA  
GGCCTCTTTGTTGTCAGCGCCTTTGCCCATCCCCATCCTGGAATGCACCAGAGGCCCCACCCGGGCTG  
GTCTCATCTGCTGCCAGCAATAAGTGTGTGGAGCTCTCAAGACCACCTACTTCTGTAGAGATTTGGC  
CCAGTACTTCCAGGGCCAGGGGCCCCACCCAAGTTCCAAGCAACCCCTACATTTCTGGGAGGAGAGTCTCT  
GGCTCTAGCCATAGCCAAGAGAATCTCATCACAGTGCAGATGGAGCAGGCCTTTGCCGACATTTACTGG  
AGAAGATTCCAGAAGAGGAGAAAGCTGCCTTGTCTGTACAGCACACAGAGCAGTCACCCCTCTGCTCT  
GGGACAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225592 representing NM\_008394  
 Red=Cloning site Green=Tags(s)

MASGKVRCTRKLRSWIVEQVESGHFFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAAIKAWALFKEKHK  
 DGDIGHPAVWKTRLRCALNKSSFEFEVPERGRMDVAEPYKVYRILPAGTLPNQPRNQKSPCKRSISCVSP  
 EREENMENGRTNGVVNHSDSGSNI GGGNGSNRSDSN SNCNSELEEGAGTTEATIREDPVFLEHQ LPLNS  
 DYSLLLFYIYGGRRVVGKTQVHSLDCRLVAERSDSESSMEQVEFPKPDPLEPTQHLLNQLDRGVLVASNSR  
 GLFVQRLCP IPI SWNAPEAPPGP GPHLLPSNKCVELFKTTYFCRDLAQYFQGGPPPKFQATLHFWEESP  
 GSSHSQENLITVQMEQAFARHLLLEKIPEEEKAALFLLQHTEQSPSALGH

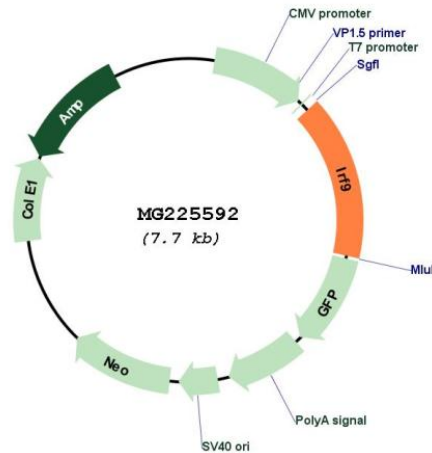
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_008394

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_008394.3</a> , <a href="#">NP_032420.1</a>
<b>RefSeq Size:</b>	2459 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	16391
<b>UniProt ID:</b>	<a href="#">Q61179</a>
<b>Cytogenetics:</b>	14 28.19 cM
<b>Gene Summary:</b>	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]