

## Product datasheet for **MG225594**

### Irf9 (NM\_001159417) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irf9 (NM_001159417) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irf9
Synonyms:	Irf-9; lsgf3g; p48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225594 representing NM\_001159417  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCACCTCCCCGGAGGAGAATTGAAACTTAGGGTGGGACTGTAGAAAGGGGAGGAGAGATCAGAAAAA  
 GCCTAGAACCTGCTAAGCCTGGGACCTTTTCAGCGGCTCAGGCCCTGCCATTTCTCAGCTCCGCCCTT  
 GCCCCAGCTGCTGCCACCTACCCCTCTAGCAAAGAGGGGTATGGTAAGGAGAAGGATGGCCTCAGGC  
 AAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCCATTTCCAGGGG  
 TGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCCTGGAAGCATGCAGGCAAGCAAGACTTCCG  
 AGAGGACCAGGATGCTGCCATATCAAGGCTTGGGCACGTGTTAAGGAAAAGCACAAAGATGGGGACATA  
 GGACACCCGCTGCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCGGAATTTGAGGAGGTTCC  
 CCGAGAGAGGTCGTATGGATGTTGCTGAACCCTACAAAGTATATCGAATACTGCCAGCAGGAACCCCTCCC  
 TAACCAACCACGGAACCAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTACCTGAGAGGGAAGAA  
 AATATGGAATAATGGGAGGACCAATGGCGTTGTAACCCTCAGACAGTGGCAGCAACATAGCGCGTGGTG  
 GCAATGGCAGCAACAGGAGCGACAGCAACGAACTGCAACTCTGAGCTAGAGGAGGGAGCTGGCACAAC  
 TGAGGCCACCATTAGAGAGGACCCAGTGTTCCTGGAGCATCAACTTCTCTGAACTCAGACTACTCGCTG  
 CTGCTCACCTTCTATGGTGGCCGAGTGGTGGGTAAGACCCAGGTGCACAGCCTAGACTGTCCGGCTCG  
 TGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGACCCACTGGAGCC  
 TACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGTCTGGTGGCCAGCAATCCAGAGGCTCTTTGTT  
 CAGCGCCTTTGCCCATCCCATCTCCTGGAATGCACCAGAGGCCCCACCCGGCCTGGTCTCATCTGC  
 TGCCAGCAATAAGTGTGTGGAGCTCTCAAGACCACCTACTTCTGTAGAGATTTGGCCAGTACTTCCA  
 GGGCCAGGGGCCCCACCCAAGTCCAAGCAACCCTACATTTCTGGGAGGAGAGTCTGGCTCTAGCCAT  
 AGCCAAGAGAATCTCATCAGTGCAGATGGAGCAGGCCCTTGGCCGACATTTACTGGAGAAGATCCAG  
 AAGAGGAGAAAGCTGCCTGTTCTGTTACAGCACACAGAGCAGTACCCTCTGCTCTGGGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225594 representing NM\_001159417  
 Red=Cloning site Green=Tags(s)

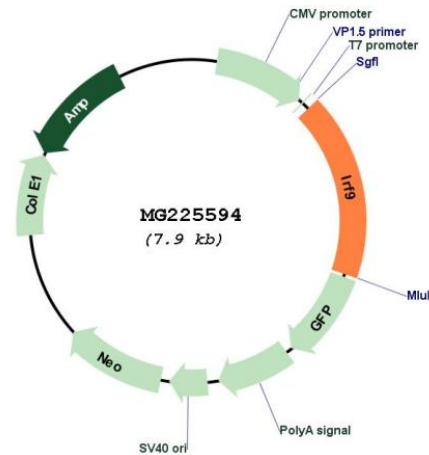
MHLPGGELKLRVGTVERGGEIRKSLEPAKPGTFSAAQALPISSAPPLPPAAAPPTPLAKRGMVRRRMSG  
 KVRCTRKLRSWIVEQVESGHFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAIIFKAWALFKEKHKDGI  
 GHPAVWKTRLRCALNKSSEFEVPERGRMDVAEPYKVYRILPAGTLPNQPRNQKSPCKRSISCVSPEREE  
 NMENGRNTNGVVNHSDSGNSNIGGGNGSNRSDSN SNCNSELEEGAGTTEATIREDPVFLEHQLPLNSDYSL  
 LLTFIYGGRVVGKTQVHSLDCRLVAERSDESSEMEQVEFPKPDLEPTQHLLNQLDRGVLVASNSRGLFV  
 QRLCPIPIISWNAPEAPPGPHELLPSNKCVELFKTTYFCRDLAQYFQGQPPPKFQATLHFWEESPGSSH  
 SQENLITVQMEQAFARHILLEKIPEEKAALFLLQHTEQSPSALGH

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001159417

**ORF Size:** 1395 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.

<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>	<u><a href="#">NM_001159417.1</a></u> , <u><a href="#">NP_001152889.1</a></u>
<b>RefSeq Size:</b>	2545 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	16391
<b>UniProt ID:</b>	<u><a href="#">Q61179</a></u>
<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]