

## Product datasheet for **RG200458**

### IRF5 (NM\_032643) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IRF5 (NM_032643) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRF5
Synonyms:	SLEB10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200458 representing NM\_032643  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCAGTCCATCCCAGTGGCTCCCACCCACCCCGCGCTGCGGCTGAAGCCCTGGCTGGTGCC  
 AGGTGAACAGCTGCCAGTACCCAGGCTTCAATGGGTCAACGGGAAAAGAAATTATTCTGCATCCCTG  
 GAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGATAACACCATCTTCAAGCCTGGGCAAGGAG  
 ACAGGGAAATACACCGAAGGCGTGGATGAAGCCGATCCGGCCAAGTGAAGGCCAACCTGCGCTGTGCC  
 TTAACAAGAGCCGGGACTTCCGCTCATCTACGACGGGCCCGGACATGCCACCTCAGCCCTACAAGAT  
 CTACGAGGTCTGCTCCAATGGCCCTGCTCCACAGACTCCAGCCCTGAGGATTACTCTTTGGTGCA  
 GGAGAGGAGGAGAAGAAGGAAGAGTGCAGAGGATGTTGCCAAGCCTGAGCCTCACAGAGGATGTCA  
 AGTGGCCGCCACTCTGCAGCCGCCACTCTGCGGCCCTACTCTGCAGCCGCCACTCTGCAGCCGCC  
 CGTGGTGTGGTCCCCCTGCTCCAGACCCAGCCCCCTGGCTCCTCCCCTGGCAACCCTGCTGGCTTC  
 AGGGAGCTTCTCTGAGGTCTGGAGCCTGGGCCCTGCCTGCCAGCCTGCCCTGCAGGCGAACAGC  
 TCCTGCCAGACCTGCTGATCAGCCCCACATGCTGCCTCTGACCGACCTGGAGATCAAGTTTCAGTACCG  
 GGGGCGGCCACCCGGGCCCTCACCATCAGCAACCCCATGGCTGCCGGCTTTCTACAGCCAGCTGGAG  
 GCCACCCAGGAGCAGGTGGAACCTTTCGGCCCCATAAGCCTGGAGCAAGTGCCTTCCCCAGCCCTGAGG  
 ACATCCCAGTGACAAGCAGCGCTTCTACACGAACCAGCTGCTGGATGTCTGGACCGGGGCTCATCT  
 CCAGCTACAGGGCCAGGACCTTTATGCCATCCGCTGTGTGAGTGAAGGTGTTCTGGAGCGGCCCTGT  
 GCCTCAGCCATGACTCATGCCCAACCCATCCAGCGGAGGTCAAGACCAAGCTTTTCAGCCTGGAGC  
 ATTTTCTCAATGAGCTCATCTGTTCAAAAGGGCCAGACCAACACCCACCCTTCGAGATCTTCTT  
 CTGCTTTGGGGAAGAATGGCCTGACCGCAAACCCGAGAGAAGAAGCTCATTACTGTACAGGTGGTGCCT  
 GTAGCAGCTCGACTGCTGCTGGAGATGTTCTCAGGGAGCTATCTTGGTCACTGATAGTATCCGGCTAC  
 AGATCTCAAACCCAGACCTCAAAGACCGCATGGTGGAGCAATTCAAGGAGCTCCATCACATCTGGCAGTC  
 CCAGCAGCGGTTGCAGCCTGTGGCCAGGCCCTCCTGGAGCAGGCTTGGTGTGGCCAGGGGCCCTGG  
 CCTATGCACCCAGCTGGCATGCAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200458 representing NM\_032643  
 Red=Cloning site Green=Tags(s)

MNQSI PVAPT PPRRRLK PVLVAQVNSCQYPGLQWVNGEKKLFCIPWRHATRHGPSQDGDNTIFKAWAKE  
 TGKYTEGVDEADPAKWKANLRCALNKSDFRLIYDGPRDMPPQPYKIYEVCSNGPAPTDSDQPPEDYSFGA  
 GEEEEEEELQRMLPSLSLTEDVKWPPTLQPPTLRPPTLQPPTLQPPVVLGPPAPDPSPLAPPPGNPAGF  
 RELLSEVLEPGPLPASLPPAGEQLLPDLLISPHMLPLTDLEIKFYRGRPPRALTISNPHGCRLFYSQL  
 ATQEQVELFGPISLEQVRFPSPEDIPSDKQRFYTNQLLDVLDRLILQLQGDLYAIRLCQCKVFWSGPC  
 ASAHDSNPNIQREVKTFLSLEHFLNELILFQKQNTNTPPPFEIFFCFGEWPDPRKPREKKLITVQVVP  
 VAARLLLEMFSGELSWADSIRLQISNPDLKDRMVEQFKELHHIWQSQRQLQPVAPAPPAGLVGVQGPW  
 PMHPAGMQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_032643

**ORF Size:** 1494 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\\_032643.4](#)

**RefSeq Size:** 2771 bp

**RefSeq ORF:** 1497 bp

**Locus ID:** 3663

**UniProt ID:** [Q13568](#)

**Cytogenetics:** 7q32.1

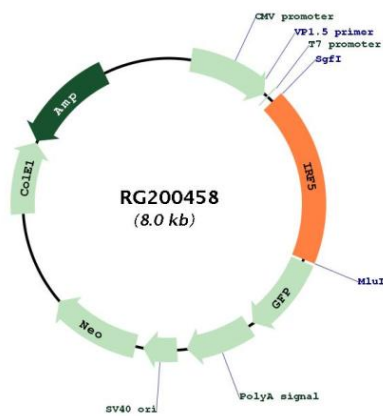
**Domains:** IRF

**Protein Families:** Transcription Factors

**Protein Pathways:** Toll-like receptor signaling pathway

**Gene Summary:** This gene encodes a member of the interferon regulatory factor (IRF) family, a group of transcription factors with diverse roles, including virus-mediated activation of interferon, and modulation of cell growth, differentiation, apoptosis, and immune system activity. Members of the IRF family are characterized by a conserved N-terminal DNA-binding domain containing tryptophan (W) repeats. Alternative promoter use and alternative splicing result in multiple transcript variants, and a 30-nt indel polymorphism (SNP rs60344245) can result in loss of a 10-aa segment. [provided by RefSeq, Dec 2016]

**Product images:**



Circular map for RG200458