

Product datasheet for **RG211941**

IRF5 (NM_001098629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRF5 (NM_001098629) 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:

>RG211941 representing NM_001098629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCAGTCCATCCCAGTGGCTCCCACCCACCCCGCGCTGCGGCTGAAGCCCTGGCTGGTGCC
 AGGTGAACAGCTGCCAGTACCCAGGCTTCAATGGGTCAACGGGAAAAGAAATTATTCTGCATCCCTG
 GAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGATAACACCATCTTCAAGGCCTGGGCCAAGGAG
 ACAGGGAAATACACCGAAGGCGTGGATGAAGCCGATCCGGCCAAGTGAAGGCCAACCTGCGCTGTGCC
 TTAACAAGAGCCGGGACTTCCGCCTCATCTACGACGGGCCCGGACATGCCACCTCAGCCCTACAAGAT
 CTACGAGGTCTGCTCCAATGGCCCTGCTCCACAGACTCCAGCCCTGAGGATTACTCTTTTGGTGCA
 GGAGAGGAGGAGAAGAGGAAGAGCTGCAGAGGATGTTGCCAAGCCTGAGCCTCACAGATGCAGTGC
 AGTCTGGCCCCACATGACACCTATTCTTTACTCAAAGAGGATGCAAGTGGCCGCCACTCTGCAGCC
 GCCACTCTGCGCCGCCTACTCTGCAGCCGCCACTCTGCAGCCGCCGTGGTGTGGTCCCCCTGCT
 CCAGACCCAGCCCTGGCTCCTCCCCCTGGCAACCCTGCTGGCTTCAAGGAGCTTCTCTGAGGTCC
 TGGAGCCTGGGCCCTGCCTGCCAGCCTGCCCCCTGCAGGCGAACAGCTCCTGCCAGACCTGCTGATCAG
 CCCCCACATGCTGCCTCTGACCGACTGGAGATCAAGTTTCAGTACCGGGGGCGGCCACCCCGGGCCCTC
 ACCATCAGCAACCCCATGGCTGCCGGCTCTTCTACAGCCAGCTGGAGGCCACCCAGGAGCAGGTGGAAC
 TCTTCGGCCCCATAAGCCTGGAGCAAGTGCCTTCCCCAGCCCTGAGGACATCCCCAGTGAACAGCAGCG
 CTTCTACACGAACAGCTGCTGGATGCTCTGGACCGGGCTCATCTCCAGCTACAGGGCCAGGACCTT
 TATGCCATCCGCCTGTGTCAGTGAAGGTGTTCTGGAGCGGCCCTGTGCCTCAGCCATGACTCATGCC
 CCAACCCATCCAGCGGGAGGTCAAGACCAAGCTTTTCAGCCTGGAGCATTTTCTCAATGAGCTCATCCT
 GTTCCAAAAGGGCCAGACCAACACCCACCCCTTCGAGATCTTCTTCTGCTTTGGGGAAGAATGGCCT
 GACCGCAAACCCGAGAGAAGAAGCTCATTACTGTACAGGTGGTGCCTGTAGCAGCTCGACTGCTGCTGG
 AGATGTTCTCAGGGAGCTATCTTGGTCAGCTGATAGTATCCGGCTACAGATCTCAAACCCAGACCTCAA
 AGACCGCATGGTGGAGCAATTCAAGGAGCTCCATCACATCTGGCAGTCCCAGCAGCGTTGCAGCCTGTG
 GCCAGGCCCTCTGGAGCAGGCCTTGGTGTGGCCAGGGCCCTGGCCTATGCACCCAGCTGGCATGC
 AA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211941 representing NM_001098629
 Red=Cloning site Green=Tags(s)

MNQSI PVAPTPRRVRLKPWLVAQVNSCQYPLQWVNGEKKLFCIPWRHATRHPSPQDGDNTIFKAWAKE
 TGKYTEGVDEADPAKWKANLRCALNKSDFRLIYDGPRDMPPQPYKIYEVCSNGPAPTDSQPPEDYSFGA
 GEEEEEEELQRMLPSLSLTDVAVQSGPHMTPYSLLKEDVKWPPTLQPPTLRPPTLQPPTLQPPVVLGPPA
 PDPSP LAPPPGNPAGFRELLSEVLEPGPLPASLPPAGEQLLPDLLISPHMLPLTDLEIKFYRGRPPRAL
 TISNPHGCRLFYSQLLEATQEQVELFGPISLEQVRFSPEDIPSDKQRFYTNQLLDVLDRLILQLQGQDL
 YAIRLCQCKVFWSGPCASAHDCPNPIQREVTKLFSLEHFLNELILFQKQNTNPPPFIEFFCGEEWP
 DRKPREKKLITVQVVPVAARLLLEMFSGELSWADSIRLQISNPDLKDRMVEQFKELHHIWQSQRQLQPV
 AQAPPAGLGVGQGPWPMHPAGMQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001098629

ORF Size: 1542 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_001098629.3](#)

RefSeq Size: 2900 bp

RefSeq ORF: 1545 bp

Locus ID: 3663

UniProt ID: [Q13568](#)

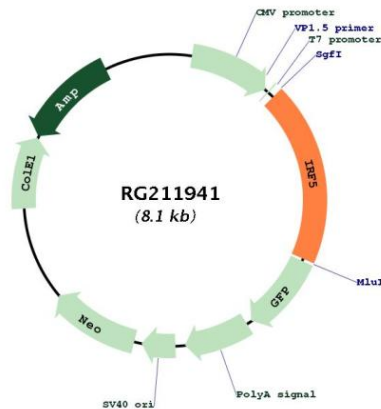
Cytogenetics: 7q32.1

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 RG211941