

## Product datasheet for **RG234024**

### IRF5 (NM\_001242452) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IRF5 (NM_001242452) 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)
ORF Nucleotide Sequence:	>RG234024 representing NM_001242452 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCAAGTCCATCCCAGTGGCTCCCACCCACCCCGCCGCGTGC GGCTGAAGCCCTGGCTGGTGGCCC  
AGGTGAACAGCTGCCAGTACCCAGGGCTCAATGGGTCAACGGGAAAAGAAATTATTCTGCATCCCCTG  
GAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGATAACACCATCTTCAAGCCTGGGCCAAGGAG  
ACAGGGAATACACCGAAGGCGTGGATGAAGCCGATCCGGCCAAGTGAAGGCCAACCTGCGCTGTGCC  
TTAACAAGAGCCGGGACTTCCGCCTCATCTACGACGGGCCCGGGACATGCCACCTCAGCCCTACAAGAT  
CTACGAGGTCTGCTCCAATGGCCCTGCTCCACAGACTCCAGCCCTGAGGATTACTCTTTTGGTGCA  
GGAGAGGAGGAGGAAGAAGAGGAAGAGCTGCAGAGGATGTTGCCAAGCCTGAGCCTCACAGTGACCGACC  
TGGAGATCAAGTTTCAAGTACCGGGGGCGGCCACCCCGGGCCCTCACCATCAGCAACCCCATGGCTGCCG  
GCTCTTCTACAGCCAGCTGGAGGCCACCCAGGAGCAGGTGGAAGTCTTCGGCCCCATAAGCCTGGAGCAA  
GTGCGCTTCCCCAGCCCTGAGGACATCCCAGTGACAAGCAGCGCTTCTACACGAACAGCTGCTGGATG  
TCCTGGACCGGGCTCATCCTCCAGCTACAGGGCCAGGACCTTATGCCATCCGCTGTGTCAGTGCAA  
GGTGTCTGGAGCGGGCTTGTGCCTCAGCCATGACTCATGCCCAACCCATCCAGCGGGAGGTCAAG  
ACCAAGCTTTTTCAGCCTGGAGCATTTTCTCAATGAGCTCATCCTGTTCCAAAAGGGCCAGACCAACCC  
CACCACCTTCGAGATCTTCTTCTGCTTTGGGGAAGAATGGCCTGACCGCAAACCCGAGAGAAGAAGCT  
CATTACTGTACAGGTGGTGCCTGTAGCAGCTCGACTGCTGCTGGAGATGTTCTCAGGGGAGCTATCTTGG  
TCAGCTGATAGTATCCGGCTACAGATCTCAAACCCAGACCTCAAAGACCGCATGGTGGAGCAATTCAAGG  
AGCTCCATCACATCTGGCAGTCCCAGCAGCGGTTGCAGCCTGTGGCCAGGCCCTCCTGGAGCAGGCCCT  
TGGTGTGGCCAGGGCCCTGGCCTATGCACCCAGCTGGCATGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG234024 representing NM\_001242452  
 Red=Cloning site Green=Tags(s)

MNQSIPVAPTPRRVRLKPWLVAQVNSCQYPGLQWVNGEKKLFCIPWRHATHRGPSQDGDNTIFKAWAKE  
 TGKYTEGVDEADPAKWKANLRCALNKSDFRLIYDGPDMPPQPYKIYEVCSNGPAPTDSQPPEDYSFGA  
 GEEEEEEELQRMLPSLSLTVTDLEIKFYRGRPPRALTISNPHGCRLFYSQLEATQEVELFGPISLEQ  
 VRFPSPEDIPSDKQRFYTNQLLDVLDRLILQLQGDLYAIRLCQCKVFWSGPCASAHSDSCNPPIQREVK  
 TKLFSLEHFLNELILFQKGQNTNPPPFEIFFCGEEWPDPRKPREKKLITVQVVPVAARLLEMFSGELSW  
 SADSIRLQISNPDLKDRMVEQFKELHHIWQSQRLQPVAQAPPGAGLGVGQGPWPMHPAGMQ

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001242452

**ORF Size:** 1236 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\\_001242452.3](#)

**RefSeq Size:** 2594 bp

**RefSeq ORF:** 1239 bp

**Locus ID:** 3663

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

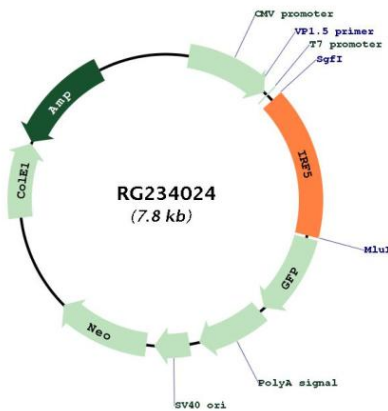
**Cytogenetics:** 7q32.1

**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 RG234024