

## Product datasheet for RC234024

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

#### Product data:

Product Type: Expression Plasmids  
 Product Name: IRF5 (NM\_001242452) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: IRF5  
 Synonyms: SLEB10  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC234024 representing NM\_001242452  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACCAAGTCCATCCCAGTGGCTCCCACCCACCCCGCCGCGTGCAGCTGAAGCCCTGGCTGGTGGCCC  
 AGGTGAACAGCTGCCAGTACCCAGGGCTCAATGGGTCAACGGGAAAAGAAATTATTCTGCATCCCCTG  
 GAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGATAACACCATCTTCAAGCCTGGGCCAAGGAG  
 ACAGGGAAATACACCGAAGGCGTGGATGAAGCCGATCCGGCCAAGTGAAGGCCAACCTGCGCTGTGCC  
 TTAACAAGAGCCGGGACTTCCGCTCATCTACGACGGGCCCGGGACATGCCACCTCAGCCCTACAAGAT  
 CTACGAGGTCTGCTCCAATGGCCCTGCTCCACAGACTCCAGCCCTGAGGATTACTCTTTTGGTGCA  
 GGAGAGGAGGAGGAAGAAGAGGAAGAGCTGCAGAGGATGTTGCCAAGCCTGAGCCTCACAGTGACCGACC  
 TGGAGATCAAGTTTCAGTACCGGGGCGGCCACCCCGGCCCTCACCATCAGCAACCCCATGGCTGCCG  
 GCTCTTCTACAGCCAGCTGGAGGCCACCCAGGAGCAGGTGGAAGTCTTCGGCCCCATAAGCCTGGAGCAA  
 GTGCGCTTCCCAGCCCTGAGGACATCCCAGTGACAAGCAGCGCTTCTACACGAACAGCTGCTGGATG  
 TCCTGGACCGGGCTCATCCTCCAGCTACAGGGCCAGGACCTTATGCCATCCGCTGTGTCAGTGCAA  
 GGTGTTCTGGAGCGGGCTTGTGCCTCAGCCATGACTCATGCCCAACCCATCCAGCGGGAGGTCAAG  
 ACCAAGCTTTTCAGCCTGGAGCATTTTCTCAATGAGCTCATCCTGTTCCAAAAGGGCCAGACCAACCC  
 CACCACCTTCGAGATCTTCTTCTGCTTTGGGGAAGAATGGCCTGACCGCAAACCCGAGAGAAGAAGCT  
 CATTACTGTACAGGTGGTGCCTGTAGCAGCTCGACTGCTGCTGGAGATGTTCTCAGGGGAGCTATCTTGG  
 TCAGCTGATAGTATCCGGCTACAGATCTCAAACCCAGACCTCAAAGACCGCATGGTGGAGCAATTCAAGG  
 AGCTCCATCACATCTGGCAGTCCCAGCAGCGTTGCAGCCTGTGGCCAGGCCCTCCTGGAGCAGGCCCT  
 TGGTGTGGCCAGGGCCCTGGCTATGCACCCAGCTGGCATGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC234024 representing NM\_001242452  
 Red=Cloning site Green=Tags(s)

MNQSIPVAPTPRRVRLKPWLVAQVNSCQYPGLQWVNGEKKLFCIPWRHATRHGPSQDGDNTIFKAWAKE  
 TGKYTEGVDEADPAKWKANLRCALNKSDFRLIYDGPDMPPQPYKIYEVCSNGPAPTDSQPPEDYSFGA  
 GEEEEEEELQRMLPSLSLTVTDLEIKFQYRGRPPRALTISNPHGCRLFYSQLEATQEVELFGPISLEQ  
 VRFPSPEDIPSDKQRFYTNQLLDVLDRLILQLQGDLYAIRLCQCKVFWSGPCASAHSDSCPNPIQREVK  
 TKLFSLEHFLNELILFQKGQNTNPPPFIEFFCFGEEWPDRKPREKKLITVQVVPVAARLLEMFSGELSW  
 SADSIRLQISNPDLKDRMVEQFKELHHIWQSQQRLQPVAQAPPGAGLGVGQGPWMPHPAGMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

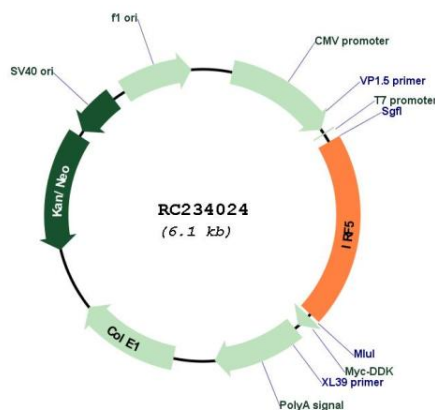
**Protein Families:** Transcription Factors

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

**MW:** 47.5 kDa

**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 RC234024