

Product datasheet for **RC216039**

IRF5 (NM_001098631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRF5 (NM_001098631) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRF5
Synonyms:	interferon regulatory factor 5; SLEB10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216039 representing NM_001098631
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCAGTCCATCCCAGTGGCTCCCACCCACCCCGCGCTGCGGCTGAAGCCCTGGCTGGTGCC
 AGGTGAACAGCTGCCAGTACCCAGGCTTCAATGGGTCAACGGGAAAAGAAATTATTCTGCATCCCTG
 GAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGATAACACCATCTTCAAGGCCTGGGCAAGGAG
 ACAGGGAAATACACCGAAGGCGTGGATGAAGCCGATCCGGCCAAGTGGAAGGCCAACCTGCGCTGTGCC
 TTAACAAGAGCCGGGACTTCCGCCTCATCTACGACGGGCCCGGACATGCCACCTCAGCCCTACAAGAT
 CTACGAGGTCTGCTCCAATGGCCCTGCTCCACAGACTCCAGCCCTGAGGATTACTCTTTTGGTGCA
 GGAGAGGAGGAGAAGAAGGAAGAGCTGCAGAGGATGTTGCCAAGCCTGAGCCTCACAGAGGATGTCA
 AGTGGCCGCCACTCTGCAGCCGCCACTCTGCAGCCGCCGTTGGTGTGGTCCCCTGCTCCAGACCC
 CAGCCCCCTGGCTCCTCCCCTGGCAACCTGCTGGCTTACGGGAGCTTCTCTGAGGTCTGGAGCCT
 GGGCCCCCTGCCTGCCAGCCTGCCCTGCAGGCGAACAGCTCCTGCCAGACCTGTGATCAGCCCCACA
 TGCTGCCTCTGACCGACCTGGAGATCAAGTTTCACTACGGGGGCGGCCACCCCGGGCCCTCACCATCAG
 CAACCCCATGGCTGCCGGCTCTTCTACAGCCAGCTGGAGGCCACCCAGGAGCAGGTGGAACCTTTCGGC
 CCCATAAGCCTGGAGCAAGTGCCTTCCCAGCCCTGAGGACATCCCAGTGACAAGCAGCGCTTCTACA
 CGAACCAGCTGCTGGATGCTTGGACCGCGGGCTCATCTCCAGCTACAGGGCCAGGACCTTATGCCAT
 CCGCTGTGTCAAGTGTCTGGAGCGGGCTCATCTCCAGCTACAGGGCCAGGACCTTATGCCAT
 ATCCAGCGGGAGGTCAAGACCAAGCTTTTACGCTGGAGATCTTCTCTGCTTTGGGGAAGAATGCCCTGACC
 AGCCGAGACCAACACCCACCCCTCGAGATCTTCTGCTTTGGGGAAGAATGCCCTGACC
 ACCCCGAGAGAAGAAGCTCATTACTGTACAGGTGGTGCCTGTAGCAGCTGACTGCTGGAGATGTTT
 TCAGGGGAGCTATCTTGGTCAGCTGATAGTATCCGGCTACAGATCTCAAACCCAGACCTCAAAGACCGCA
 TGGTGGAGCAATTCAAGGAGCTCCATCACATCTGGCAGTCCCAGCAGCGTTGCAGCCTGTGGCCAGGC
 CCTCCTGGAGCAGGCCTTGGTGTGGCCAGGGCCCTGGCTATGCACCCAGCTGGCATGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216039 representing NM_001098631
 Red=Cloning site Green=Tags(s)

MNQSI PVAPT PPRRVR LK PVLVAQVNSCQYPGLQWVNGEKKLFCIPWRHATRHGPSQDGDNTIFKAWAKE
 TGKYTEGVDEADPAKWKANLRALNKSDFRLIYDGRDMPQPYPYKIYEVCSNGPAPTDSQPPEDYSFGA
 GEEEEEEELQRMLPSLSLTEDVKWPPTLQPPTLQPPVVLGPPAPDPSPLAPPPGNPAGFRELLSEVLEP
 GPLPASLPPAGEQLLPDLLISPHMLPLTDLEIKFYRGRPPRALTISNPHGCR LFYSQLEATQEVELFG
 PISLEQVRFPSPEDIPSDKQRFYTNQLLDVLDRLILQLQGQDLYAIRLCQCKVFWSGPCASAHDS CPNP
 IQREVKTKLFSLEHFLNELILFQKQNTNPPPFEIFFCFGEWPD RKPREKKLITVQVVPVAARLLLEMF
 SGELSWSADSI RLQISNPD LKDRMVEQFKELHHIWQSQQRLQPVAQAPPGAGLGVGQGPWPMHPAGMQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6505_c10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001098631

ORF Size: 1464 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_001098631.1](#), [NP_001092101.1](#)

RefSeq Size: 2741 bp

RefSeq ORF: 1466 bp

Locus ID: 3663

Cytogenetics: 7q32.1

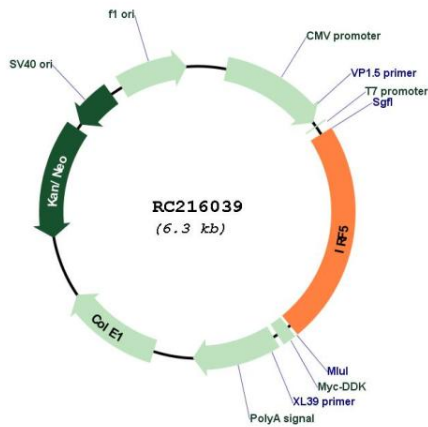
Protein Families: Transcription Factors

Protein Pathways: Toll-like receptor signaling pathway

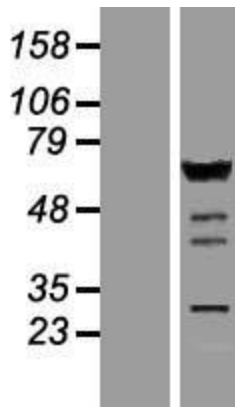
MW: 54.8 kDa

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]

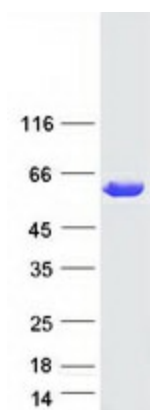
Product images:



Circular map for RC216039



Western blot validation of overexpression lysate (Cat# [LY420651]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216505] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IRF5 protein (Cat# [TP316039]). The protein was produced from HEK293T cells transfected with IRF5 cDNA clone (Cat# RC216039) using MegaTran 2.0 (Cat# [TT210002]).