

Product datasheet for RC207768

Interferon regulatory factor 9 (IRF9) (NM_006084) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Interferon regulatory factor 9 (IRF9) (NM_006084) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Interferon regulatory factor 9
Synonyms:	IRF-9; ISGF3; ISGF3G; p48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207768 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCAGGCAGGGCACGCTGCACCCGAAAACCTCCGAACTGGGTGGTGGAGCAAGTGGAGAGTGGGC
AGTTTCCCGAGTGTGCTGGGATGATACAGCTAAGACCATGTTCCGGATTCCTGGAAACATGCAGGCAA
GCAGGACTTCCGGGAGGACCAGGATGCTGCCTTCTCAAGGCCTGGGCAATATTTAAGGGAAAGTATAAG
GAGGGGGACACAGGAGGTCCAGCTGTCTGAAGACTCGCCTGCGCTGTGCACTCAACAAGAGTTCTGAAT
TTAAGGAGTTCTGAGAGGGCCGCATGGATGTTGCTGAGCCCTACAAGGTGTATCAGTTGCTGCCACC
AGGAATCGTCTTGCCAGCCAGGGACTCAGAAAGTACCATCAAAGCGACAGCACAGTTCTGTGCTCCTCT
GAGAGGAAGGAGGAAGAGGATGCCATGCAGAACTGCACACTCAGTCCCTCTGTGCTCCAGGACTCCCTCA
ATAATGAGGAGGAGGGGCCAGTGGGGGAGCAGTCCATTCAGACATTTGGGAGCAGCAGCAGCAGCAGCAG
CCCTGAGCCACAGGAAGTTACAGACACAACCTGAGGCCCTTTCAAGGGGATCAGAGGTCCTGGAGTTT
CTGCTTCTCCAGAGCCAGACTACTCACTGCTGCTCACCTTCATCTACAACGGGCGCGTGGTGGGCGAGG
CCCAGGTGCAAAGCCTGGATTGCCGCTTGTGGCTGAGCCCTCAGGCTCTGAGAGCAGCATGGAGCAGGT
GCTGTTCCCAAGCCTGGCCACTGGAGCCCACGACGCGCTGCTGAGCCAGCTTGAAGGGGCATCCTA
GTGGCCAGCAACCCCGAGGCCCTTTGTCAGCGCCTTTGCCCATCCCCATCTCTGGAAATGCACCCC
AGGCTCCACCTGGGCCAGGCCCGCATCTGCTGCCAGCAACGAGTGCCTGGAGCTCTTCAGAACCGCTA
CTTCTGCAGAGACTTGGTCAGGACTTTTCAAGGCTGGGCCCCACCGAAGTTCAGGTAACACTGAAT
TTCTGGGAAGAGAGCCATGGCTCCAGCCATACTCCACAGAATCTTATCACAGTGAAGATGGAGCAGGCC
TTGCCGATACTTGTGGAGCAGACTCCAGAGCAGCAGGCCAGCCATTCTGTCCCTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207768 protein sequence
Red=Cloning site Green=Tags(s)

MASGRARCTRKLRNWVVEQVESGQFFPGVCWDDTAKTMFRIPWKHAGKQDFREDQDAAFFKAWAIFKGYK
 EGDGTGGPAVWKTRLRALNKSSEFKEVPERGRMDVAEPYKVYQLLPPGI VSGPGTKVPSKRQHSSVSS
 ERKEEDAMQNTLSPSVLQDSL NNEEEGASGGAVHSDIGSSSSSSSEPQEVTDTEAPFQGDQRSLEF
 LLPPEPDYSLLLTFIYNGRVVGEAQVQSLDCRLVAEPSGSESSMEQVLPKPGPLEPTQRLLSQLERGIL
 VASNPRLGFVQRLCPPIISWNPAPPGPGPHLLPSNECVELFRTAYFCRDLVRYFQGLGPPPKFQVTLN
 FWEEESHGSSHTPQNLITVKMEQAFARYLLEQTPEQQAAILSLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6088_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_006084

ORF Size: 1179 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_006084.5](#)

RefSeq Size: 1699 bp

RefSeq ORF: 1182 bp

Locus ID: 10379

UniProt ID: [Q00978](#)

Cytogenetics: 14q12

Domains: IRF

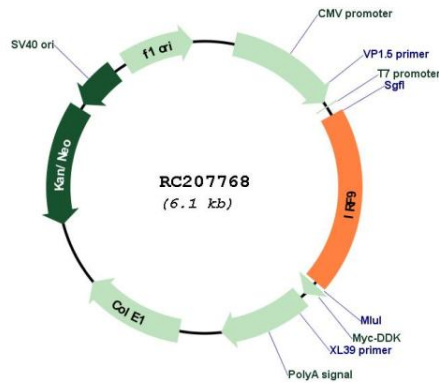
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Jak-STAT signaling pathway

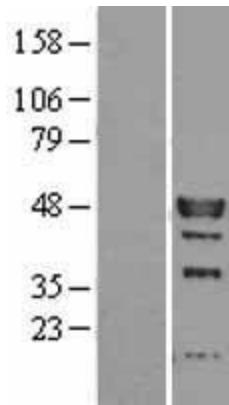
MW: 43.7 kDa

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. Mutations in this gene result in Immunodeficiency 65. [provided by RefSeq, Jul 2020]

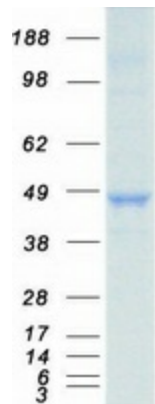
Product images:



Circular map for RC207768



Western blot validation of overexpression lysate (Cat# [LY401832]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207768 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IRF9 protein (Cat# [TP307768]). The protein was produced from HEK293T cells transfected with IRF9 cDNA clone (Cat# RC207768) using MegaTran 2.0 (Cat# [TT210002]).