

Product datasheet for MR206263

Irf9 (NM_001159418) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irf9 (NM_001159418) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irf9
Synonyms:	Irf-9; Isgf3g; p48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206263 representing NM_001159418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCAGGCAAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCC
ATTTCCAGGGGTGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCTGGAAGCATGCAGGCAA
GCAAGACTTCGAGAGGACCAGGATGCTGCCATATCAAGGCTTGGGCACTGTTAAGGAAAAGCACAAA
GATGGGGACATAGGACACCCCGCTGTCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCGGAAT
TTGAGGAGGTTCCCGAGAGAGGTCGTATGGATGTTGCTGAACCTACAAAGTATATCGAATACTGCCAGC
AGGAACCTCCCTAACCAACCACGGAACCAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTCACCT
GAGAGGGAAGAAAATATGGAAAATGGGAGGACCAATGGCGTTGTAACCCTCAGACAGTGGCAGCAACA
TAGGCGGTGGTGGCAATGGCAGCAACAGGAGCGACAGCAACAGCAACTGCAACTCTGAGCTAGAGGAGGG
AGCTGGCACAACCTGAGGCCACCATAGAGAGGACCCAGTGTCTGGAGCATCAACTTCCTCTGAACTCA
GACTACTCGTGTGCTCACCTTCATCTATGGTGGCCGAGTGGTGGGTAAGACCCAGGTGCACAGCCTAG
ACTGTCGGCTCGTGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGA
CCCCTGGAGCCTACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGTCTGGTGGCCAGCAATTCAGA
GGCCTCTTTGTTGTCAGCGCTTTGCCCATCCCCATCCTGGAATGCACCAGAGGCCCCACCCGGGCTG
GTCTCATCTGCTGCCAGCAATAAGTGTGTGGAGCTCTTCAAGACCACCTACTTCTGTAGAGATTTGGC
CCAGTACTTCCAGGGCCAGGGGCCCCACCCAAGTTCCAAGCAACCTACATTTCTGGGAGGAGAGTCTCT
GGCTCTAGCCATAGCCAAGAGAATCTCATCACAGTGCAGATGGAGCAGGCCTTTGCCGACATTTACTGG
AGAAGATTCCAGAAGAGGAGAAAGCTGCCTTGTCTGTACAGCACACAGAGCAGTCACCTCTGCTCT
GGGACAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206263 representing NM_001159418
Red=Cloning site Green=Tags(s)

MASGKVRCTRKLRSWIVEQVESGHFFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAAIKAWALFKEKHK
 DGDIGHPAVWKTRLRALNKSSEFEVPERGRMDVAEPYKVYRILPAGTLPNQPRNQKSPCKRSISCVSP
 EREENMENGRTNGVVNHSDSGSNIGGGNGSNRSDSN SNCNSELEEGAGTTEATIREDPVFLHQPLNS
 DYSLLLLTFIYGGRRVVGKTQVHSLDCRLVAERSDSESSMEQVEFPKPDPLEPTQHLLNQLDRGVLVASNSR
 GLFVQRLCPPIISWNAPEAPPGPGPHLLPSNKCVELFKTTYFCRDLAQYFQGGPPPKFQATLHFWEESP
 GSSHSQENLITVQMEQAFARHLLLEKIPEEEKAALFLLQHTEQSPSALGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159418

ORF Size: 1251 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 Size: 2343 bp

RefSeq ORF: 1254 bp

Locus ID: 16391

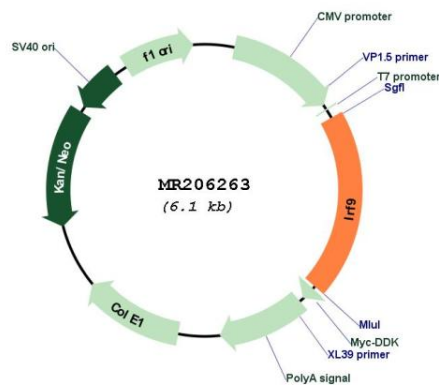
UniProt ID: [Q61179](#)

Cytogenetics: 14 28.19 cM

MW: 47.3 kDa

Gene Summary: Transcription factor that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. IRF9/ISGF3G associates with the phosphorylated STAT1:STAT2 dimer to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206263