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Product datasheet for MR225594

Irf9 (NM_001159417) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irf9 (NM_001159417) 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:

>MR225594 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCTCCCCGGAGGAGAATTGAAACTTAGGGTGGGGACTGTAGAAAGGGGAGGAGAGATCAGAAAAA
GCCTAGAACCTGCTAAGCCTGGGACCTTTTCAGCGGCTCAGGCCCTGCCCATTTCTTCAGCTCCGCCCTT
GCCCCCAGCTGCTGCCCCACCTACCCCTCTAGCAAAGAGGGGTATGGTAAGGAGAAGGATGGCCTCAGGC
AAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCCATTTCCCAGGGG
TGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCCTGGAAGCATGCAGGCAAGCAAGACTTCCG
AGAGGACCAGGATGCTGCCATATTCAAGGCTTGGGCACTGTTTAAGGAAAAGCACAAAGATGGGGACATA
GGACACCCCGCTGTCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCCGAATTTGAGGAGGTTC
CCGAGAGAGGTCGTATGGATGTTGCTGAACCCTACAAAGTATATCGAATACTGCCAGCAGGAACCCTCCC
TAACCAACCACGGAACCAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTCACCTGAGAGGGAAGAA
AATATGGAAAATGGGAGGACCAATGGCGTTGTAAACCACTCAGACAGTGGCAGCAACATAGGCGGTGGTG
GCAATGGCAGCAACAGGAGCGACAGCAACAGCAACTGCAACTCTGAGCTAGAGGAGGGAGCTGGCACAAC
TGAGGCCACCATTAGAGAGGACCCAGTGTTCCTGGAGCATCAACTTCCTCTGAACTCAGACTACTCGCTG
CTGCTCACCTTCATCTATGGTGGCCGAGTGGTGGGTAAGACCCAGGTGCACAGCCTAGACTGTCGGCTCG
TGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGACCCACTGGAGCC
TACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGTCCTGGTGGCCAGCAATTCCAGAGGCCTCTTTGTT
CAGCGCCTTTGCCCCATCCCCATCTCCTGGAATGCACCAGAGGCCCCACCCGGGCCTGGTCCTCATCTGC
TGCCCAGCAATAAGTGTGTGGAGCTCTTCAAGACCACCTACTTCTGTAGAGATTTGGCCCAGTACTTCCA
GGGCCAGGGGCCCCCACCCAAGTTCCAAGCAACCCTACATTTCTGGGAGGAGAGTCCTGGCTCTAGCCAT
AGCCAAGAGAATCTCATCACAGTGCAGATGGAGCAGGCCTTTGCCCGACATTTACTGGAGAAGATTCCAG
AAGAGGAGAAAGCTGCCTTGTTCCTGTTACAGCACACAGAGCAGTCACCCTCTGCTCTGGGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

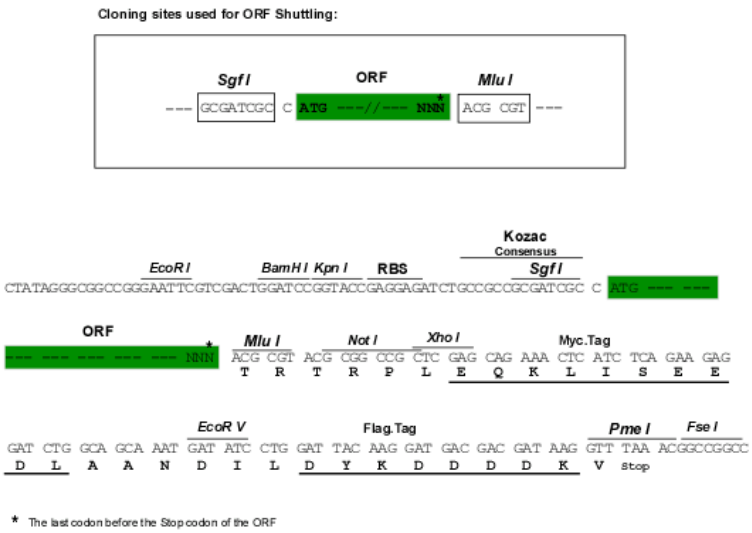
>MR225594 protein sequence
Red=Cloning site Green=Tags(s)

MHLPGGELKLRVGTVERGGEIRKSLEPAKPGTFSAAQALPISSAPPLPPAAAPPTPLAKRGMVRRRMASG
KVRCTRKLRSWIVEQVESGHFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAAIFKAWALFKEKHKDGDI
GHPAVWKTRLRCALNKSSEFEEVPERGRMDVAEPYKVYRILPAGTLPNQPRNQKSPCKRSISCVSPEREE
NMENGRTNGVVNHSDSGSNIGGGGNGSNRSDSNSNCNSELEEGAGTTEATIREDPVFLEHQLPLNSDYSL
LLTFIYGGRVVGKTQVHSLDCRLVAERSDSESSMEQVEFPKPDPLEPTQHLLNQLDRGVLVASNSRGLFV
QRLCPIPISWNAPEAPPGPGPHLLPSNKCVELFKTTYFCRDLAQYFQGQGPPPKFQATLHFWEESPGSSH
SQENLITVQMEQAFARHLLEKIPEEEKAALFLLQHTEQSPSALGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001159417

ORF Size: 1395 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_001159417.1, NP_001152889.1

RefSeq Size: 2545 bp

RefSeq ORF: 1398 bp

Locus ID: 16391

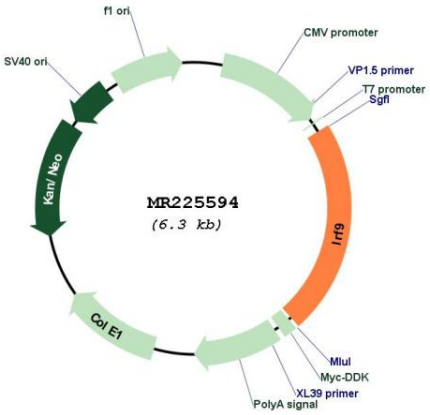
UniProt ID: Q61179

Cytogenetics: 14 28.19 cM

MW: 51.5 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 MR225594