

Product datasheet for MR206259

Isgf3g (BC005435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Isgf3g (BC005435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Isgf3g
Synonyms:	p48, Irf-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206259 representing BC005435 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCAGGCAAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCC
ATTTCCAGGGGTGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCTGGAAGCATGCAGGCAA
GCAAGACTTCGAGAGGACCAGGATGCTGCCATATTCAAGGCTTGGGCACTGTTAAGGAAAAGCACAAA
GATGGGGACATAGGACACCCCGCTGTCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCGGAAT
TTGAGGAGGTTCCCGAGAGAGGTCGTATGGATGTTGCTGAACCTACAAAGTATATCGAATACTGCCAGC
AGGAACCTCCCTAACCAACCACGGAACCAAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTCACCT
GAGAGGGAAGAAAATATGGAAAATGGGAGGACCAATGGCGTTGTAACCCTCAGACAGTGGCAGCAACA
TAGGCGGTGGTGGCAATGGCAGCAACAGGAGCGACAGCAACAGCAACTGCAACTCTGAGCTAGAGGAGGG
AGCTGGCACAACCTGAGGCCACCATAGAGAGGACCCAGTGTTCCTGGAGCATCAACTTCCTCTGAACTCA
GACTACTCGTGTGCTCACCTTCATCTATGGTGGCCGAGTGGTGGTAAGACCCAGGTGCACAGCCTAG
ACTGTCGGCTCGTGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGA
CCCCTGGAGCCTACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGTCTGGTGGCCAGCAATTCAGA
GGCCTCTTTGTTGTCAGCGCTTTGCCCATCCCCATCCTGGAATGCACCAGAGGCCCCACCCGGGCTG
GTCTCATCTGCTGCCAGCAATAAGTGTGTGGAGCTCTCAAGACCACCTACTTCTGTAGAGATTTGGC
CCAGTACTTCCAGGGCCAGGGGCCCCACCCAAGTTCCAAGCAACCTACATTTCTGGGAGGAGAGTCTCT
GGCTCTAGCCATAGCCAAGAGAATCTCATCACAGTGCAGATGGAGCAGGCCTTTGCCGACATTTACTGG
AGAAGATTCCAGAAGAGGAGAAAGCTGCCTTGTCTGTACAGCACACAGAGCAGTCACCTCTGCTCT
GGGACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206259 representing BC005435
Red=Cloning site Green=Tags(s)

MASGKVRCTRKLRSWIVEQVESGHFFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAAIKAWALFKEKHK
 DGDIGHPAVWKTRLRALNKSSEFEVPERGRMDVAEPYKVYRILPAGTLPNQPRNQSPCKRSISCVSP
 EREENMNGRTNGVVNHSDSGSNIGGGGNGSNRSDSN SNCNSELEEGAGTTEATIREDPVFLHQPLNS
 DYSLLLTFIYGGRRVVGKTQVHSLDCRLVAERSDSESSMEQVEFPKPDPLEPTQHLLNQLDRGVLVASNSR
 GLFVQRLCP IPIISWNAPEAPPGPHELLPSNKCVELFKTTYFCRDLAQYFQGQPPPKFQATLHFWEESP
 GSSHSQENLITVQMEQAFARHLLLEKIPEEEKAALFLLQHTEQSPSALGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: BC005435

ORF Size: 1197 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: [BC005435.1](#)

RefSeq Size: 2341 bp

RefSeq ORF: 1199 bp

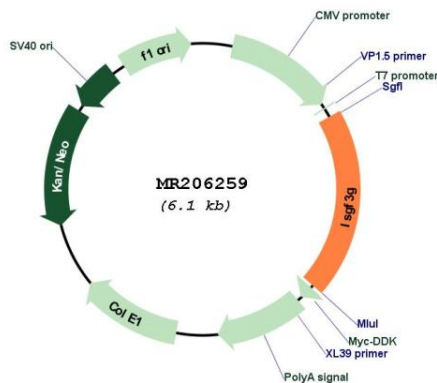
Locus ID: 16391

Cytogenetics: 14 28.19 cM

MW: 85.8 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 MR206259