

Product datasheet for **MG206259**

Isgf3g (BC005435) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Isgf3g (BC005435) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Isgf3g
Synonyms: p48, Irf-9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206259 representing BC005435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCAGGCAAAGTACGCTGCACCCGAAAGCTGCGGAGCTGGATCGTGGAGCAGGTGGAGAGTGGCC
 ATTTCCAGGGGTGTGCTGGGACGATGCAGCCAAGACCATGTTCCGGATTCCTGGAAGCATGCAGGCAA
 GCAAGACTTCGAGAGGACCAGGATGCTGCCATATCAAGGCTTGGGCACTGTTAAGGAAAAGCACAAA
 GATGGGGACATAGGACACCCCGCTGTCTGGAAGACTCGCCTACGCTGTGCCCTCAACAAGAGTTCGAAT
 TTGAGGAGGTTCCCGAGAGAGGTCGTATGGATGTTGCTGAACCCTACAAAGTATATCGAATACTGCCAGC
 AGGAACCTCCCTAACCAACCACGGAACCAAGAAATCACCATGCAAGCGAAGTATCAGTTGTGTGTCACCT
 GAGAGGGAAGAAAATATGGAAAATGGGAGGACCAATGGCGTTGTAACCCTCAGACAGTGGCAGCAACA
 TAGGCGGTGGTGGCAATGGCAGCAACAGGAGCGACAGCAACAGCAACTGCAACTCTGAGCTAGAGGAGGG
 AGCTGGCACAACCTGAGGCCACCATAGAGAGGACCCAGTGTTCCTGGAGCATCAACTTCCTCTGAACTCA
 GACTACTCGTGTGCTCACCTTCATCTATGGTGGCCGAGTGGTGGTAAGACCCAGGTGCACAGCCTAG
 ACTGTCCGCTCGTGGCTGAGCGCTCAGACTCGGAGAGCAGCATGGAGCAGGTGGAGTTTCCCAAACCCGA
 CCCACTGGAGCCTACCCAGCACCTGCTGAATCAGCTTGACAGAGGCGTCTGGTGGCCAGCAATTCAGA
 GGCTCTTTGTTGAGCGCCTTTGCCCATCCCCATCCTGGAATGCACCAGAGGCCCCACCCGGGCTG
 GTCTCATCTGCTGCCAGCAATAAGTGTGTGGAGCTCTCAAGACCACCTACTTCTGTAGAGATTTGGC
 CCAGTACTTCCAGGGCCAGGGGCCCCACCCAAGTTCCAAGCAACCCTACATTTCTGGGAGGAGAGTCTCT
 GGCTCTAGCCATAGCCAAGAGAATCTCATCACAGTGCAGATGGAGCAGGCCTTTGCCGACATTTACTGG
 AGAAGATTCCAGAAGAGGAGAAAGCTGCCTTGTCTGTACAGCACACAGAGCAGTCACCCCTCTGCTCT
 GGGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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:	<ol style="list-style-type: none">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
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]