

Product datasheet for **MG226642**

Irf4 (NM_013674) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irf4 (NM_013674) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irf4
Synonyms:	AI385587; IRF-4; LSIRF; NF-EM5; Spip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226642 representing NM_013674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACTTGGAGACGGGCAGCCGGGCTCAGAGTTCGGCATGAGCGCAGTGAGCTGCGGCAATGGGAAAC
 TCCGACAGTGGTTGATCGACCAGATCGACAGCGCAAGTACCCCGGCTGGTGTGGGAGAACGAGGAGAA
 GAGCGTCTCCGCATCCCGTGGAAACACCGGGCAAGCAGGACTACAATCGTGAGGAGGACGCTGCCCTC
 TTCAAGGCTTGGGCATTGTTAAAGGCAAGTCCGAGAAGGGATCGACAAGCCAGATCCTCCTACTTGGA
 AGACAAGATTACGATGTGCTCTGAACAAGAGCAATGACTTTGAGGAATTGGTCGAGAGGACCCAGCTGGA
 TATCTCTGACCCATACAAGGTGTACAGGATTGTTCCAGAGGGAGCCAAAAAGGAGCAAAGCAGCTCACT
 TTGGATGACACACAGATGGCCATGGGCCACCCCTACCCCATGACAGCACCTTATGGCTCTCTGCCAGCCC
 AGCAGGTTCACTACTGATGCCACCCATGACAGGAGCTGGAGGGATTATGCCCTGACCAGTCACA
 CCCAGAAATCCCATATCAATGTCTGTGACGTTTGGCCACGAGGCCACCACTGGCAAGGCCCATCTTGT
 GAAATGGTTGCCAGGTGACAGGAACCTTTTATGCTTGTGCCACCTGAGTCCCAGGCTCTGGAAATCC
 CCATTGAGCCAAGCATAAGGTCTGCTGAAGCCTTGGCGCTCTCAGACTGCCGGCTGCATATCTGCCTGTA
 TTACCGGGACATCCTCGTAAAGAGCTGACCACGACGAGCCCTGAAGGCTGCCGGATCTCCCACGGACAC
 ACCTATGATGTTAGCAACCTGGACCAGTCTGTTTCCCTACCCGGACGACAATGGACAGAGGAAGAACA
 TTGAGAAGTTGCTGAGCCACCTGGAGAGGGGACTGGTCTCTGGATGGTCCAGATGGGCTTTATGCCAA
 AAGACTCTGCCAGAGTAGGATCTACTGGGATGGGCCCTGGCACTGTGCAGCGATCGGCCAACAAAGCTA
 GAAAGAGACCAGACTTGAAGCTCTTTGACACACAGCAGTTTCTATCAGAGCTGCAAGTGTGTTGCTCACC
 ATGGCCGGCCAGCACCGAGATTCCAGGTGACTGTGCTTTGGTGAGGAGTTTCCAGACCCCTCAGAGACA
 GAGGAAGCTCATCACAGCTCATGTGGAACCTCTGCTAGCCAGACAACCTGTATTACTTTGCTCAACAAAAC
 ACTGGACATTTCTGAGGGGCTACGAGTTACCTGAACACGTTACCACTCCAGATTACCACCGCTCCCTCC
 GTCATTCTCCATCCAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226642 representing NM_013674
 Red=Cloning site Green=Tags(s)

MNLETGSRGSEFGMSAVSCGNGKLRQWLIDQIDSGKYPGLVWENEKSVFRIPWKHAGKQDYNREEDAAL
 FKAWALFKGKFRGIDKDPPTWKTRLRCALNKSNDFEELVERSQLDISDPYKVYRIVPEGAKKGAKQLT
 LDDTQMAMGHPYPMTAPYGSPLAQVHNYMPPHRSWRDYAPDQSHPEIPYQCPVTFGPRGHHWQGPSC
 ENGCVTGTGYACAPPESQAPGPIEPSIRSAEALALSDCRLHICLYYRDILVKELTTTSPEGCRISHGH
 TYDVSNLQVLFYPDDNGQRKNIKLLSHLERGLVWMAPDGLYAKRLCQSRIYWDGPLALCSDRPNKL
 ERDQTCKLFDLSELQVFAHHRPAPRFQVTLCFGEFPDPQRQRKLITAHVEPLLARQLYYFAQQN
 TGHFLRGYELPEHVTPDYHRSRHRSSIQE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_013674

ORF Size: 1350 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_013674.2](#)

RefSeq Size: 4683 bp

RefSeq ORF: 1353 bp

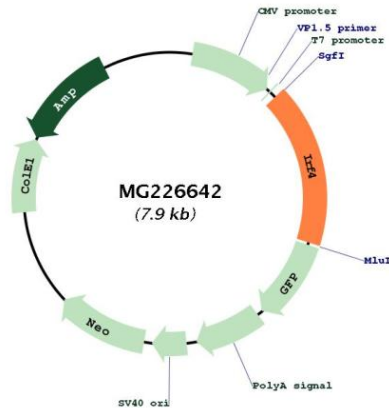
Locus ID: 16364

UniProt ID: [Q64287](#)

Cytogenetics: 13 A3.2

Gene Summary:

Transcriptional activator. Binds to the interferon-stimulated response element (ISRE) of the MHC class I promoter. Binds the immunoglobulin lambda light chain enhancer, together with PU.1. Probably plays a role in ISRE-targeted signal transduction mechanisms specific to lymphoid cells. Involved in CD8(+) dendritic cell differentiation by forming a complex with the BATF-JUNB heterodimer in immune cells, leading to recognition of AICE sequence (5'-TGAnTCA/GAAA-3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF4 and activation of genes.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG226642