

## Product datasheet for **MR226642**

### Irf4 (NM\_013674) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irf4 (NM_013674) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irf4
Synonyms:	AI385587; IRF-4; LSIRF; NF-EM5; Spip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226642 representing NM\_013674  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCTGGAGACGGGACGCCGGGCTCAGAGTTCGGCATGAGCGCAGTGAGCTGCGGCAATGGGAAAC  
 TCCGACAGTGGTTGATCGACCAGATCGACAGCGCAAGTACCCCGGCTGGTGTGGGAGAACGAGGAGAA  
 GAGCGTCTCCGCATCCCGTGGAAACACCGGGCAAGCAGGACTACAATCGTGAGGAGGACGCTGCCCTC  
 TTCAAGGCTTGGGCATTGTTAAAGCAAGTTCGAGAAGGGATCGACAAGCCAGATCCTCCTACTTGGA  
 AGACAAGATTACGATGTGCTCTGAACAAGCAATGACTTTGAGGAATTGGTCGAGAGGACCCAGCTGGA  
 TATCTCTGACCCATACAAGGTGTACAGGATTGTTCCAGAGGGAGCCAAAAAGGAGCAAAGCAGCTCACT  
 TTGGATGACACACAGATGGCCATGGGCCACCCCTACCCCATGACAGCACCTTATGGCTCTCTGCCAGCCC  
 AGCAGGTTCACTACTGATGCCACCCATGACAGGAGCTGGAGGGATTATGCCCTGACCAGTCACA  
 CCCAGAAATCCCATATCAATGTCTGTGACGTTTGGCCACGAGGCCACCACTGGCAAGGCCCATCTTGT  
 GAAATGGTTGCCAGGTGACAGGAACCTTTTATGCTTGTGCCCCACCTGAGTCCCAGGCTCCTGGAATCC  
 CCATTGAGCCAAGCATAAGGTCTGCTGAAGCCTTGGCGCTCTCAGACTGCCGGCTGCATATCTGCCTGTA  
 TTACCGGGACATCCTCGTAAAGAGCTGACCACGACGAGCCCTGAAGGCTGCCGGATCTCCACGGACAC  
 ACCTATGATGTTAGCAACCTGGACCAGTCTGTTTCCCTACCCGGACGACAATGGACAGAGGAAGAACA  
 TTGAGAAGTTGCTGAGCCACCTGGAGAGGGGACTGGTCTCTGGATGGTCCAGATGGGCTTTATGCCAA  
 AAGACTCTGCCAGAGTAGGATCTACTGGATGGGCCCCGGCACTGTGCAGCGATCGGCCAACAAAGCTA  
 GAAAGAGACCAGACTTGAAGCTCTTTGACACACAGCAGTTTCTATCAGAGCTGCAAGTGTGTTGCTCACC  
 ATGGCCGGCCAGCACCCGAGATTCAGGTGACTCTGTGCTTTGGTGAGGAGTTTCCAGACCTCAGAGACA  
 GAGGAAGCTCATCACAGCTCATGTGAACTCTGCTAGCCAGACAAGTATTACTTTGCTCAACAAAAC  
 ACTGGACATTTCTGAGGGGCTACGAGTTACCTGAACACGTTACCACTCCAGATTACCACCGCTCCCTCC  
 GTCATTCTCCATCCAAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226642 representing NM\_013674  
 Red=Cloning site Green=Tags(s)

MNLETGSRGSEFGMSAVSCGNGKLRQWLIDQIDSGKYPGLVWENEKSVFRIPWKHAGKQDYNREEDAAL  
 FKAWALFKGKFRREGIDKDPPTWKTRLRCALNKSNDFEELVERSQLDISDPYKVYRIVPEGAKKGAKQLT  
 LDDTQMAMGHPYPMTAPYGLSLPAQVHNMMPPHRSWRDYAPDQSHPEIPYQCPVTFGPRGHHWQGPSC  
 ENGCVTGTFFYACAPPESQAPGIPIEPSIRSAEALALSDCRLHICLYYRDILVKELTTTSPEGCRISHGH  
 TYDVSNLQVLFYPDDNGQRKNIKLLSHLERGLVLMAPDGLYAKRLCQSRIYWDGPLALCSDRPNKL  
 ERDQTKLFDLQQLSELQVFAHHGRPAAPRFQVTLCFGEEFPDPQRQRKLITAHVEPLLARQLYFAQQN  
 TGHFLRGYELPEHVTPDYHRSRHRHSSIQE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**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

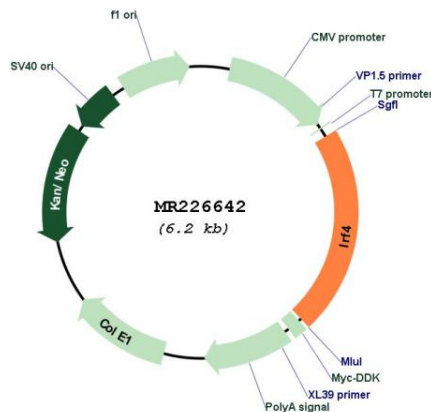
**UniProt ID:** [Q64287](#)

**Cytogenetics:** 13 A3.2

**MW:** 52 kDa

**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 MR226642