

## Product datasheet for **MR206748**

### Irf8 (NM\_008320) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irf8 (NM_008320) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irf8
Synonyms:	AI893568; IC; Ics; ICSBP; Icsbp1; IRF; IRF-8; My; Myls
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206748 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGTGACCGGAACGGCGGGCGGGCTGCGGCAGTGGCTGATCGAACAGATCGACAGCAGCATGTACC  
 CGGGGCTGATCTGGGAAAATGATGAGAAGACCATGTTCCGTATCCCTGGAAGCATGCCGCAAGCAGGA  
 TTACAATCAGGAGGTGGATGCTTCCATCTTCAAGGCCTGGCAGTTTTTAAAGGGAAGTTTAAAGAGGGA  
 GACAAAGCTGAACCAGCCACGTGGAAGACGAGGTTACGCTGTGCTCTGAACAAGAGCCAGATTTTGAAG  
 AAGTGACTGACCGGTCCCAGCTGGACATTTCTGAGCCATATAAAGTTTACCGAATTGTCCCGGAGGAAGA  
 ACAAAAATGCAAGCTGGGCGTGGCACCTGCAGGCTGCATGAGCGAAGTTCCTGAGATGGAGTGTGGCCGC  
 TCAGAGATTGAGGAGCTGATCAAGGAACCTTCTGTGGATGAGTACATGGGTATGACCAAGAGGAGCCCAT  
 CCCCACCAGAGGCTGCAGGAGCCAGATCCTCCCTGACTGGTGGTCCAGCAGCCAGTGCAGGCCCTGCC  
 ACTGGTGACCGGATATGCCGCCTATGACACACACCATTACGCTTCTCCAGATGGTCATCAGCTTCTAC  
 TACGGGGCAAGCTGGTGGGCCAGGCCACCACCCTGCCTTGAAGGCTGCCGTCTCTCCCTGAGCCAGC  
 CGGGGCTGCCTAAGTTGTATGGGCCGGATGGCCTGGAACCCGTGTGCTTCCGACGGCCGACACCATCCC  
 CAGTGAGCGGCAGAGGCAGGTGACCCGGAAGCTGTTTGGGCACCTGGAACGTGGCGTGCTACTGCACAGC  
 AACCGCAAGGGCGTGTTCTGTAAGCGGCTGTGCCAGGGCCGCGTGTCTGCAGCGGCAACGCGGTGGTGT  
 GCAAGGGCAGGCCAACAAAGCTGGAGCGGGACGAGGTGGTGCAGGTCTTTGACACCAACCAGTTCATCCG  
 AGAGCTGCAGCAATTCTACGCCACCCAGAGCCGCTACCTGACAGCAGGTGGTCTGTGCTTCCGGGAG  
 GAGTTTCCGGACTGTGCCCTTGGCTCCAAACTCATTCTGGTGCAGGTAGAGCAGCTGTATGCCAGGC  
 AGCTGGTGGAGGAAGCGGGCAAGAGCTGCGGTGCTGGCTCCCTGATGCCAGCCCTGGAGGAGCCCCAGCC  
 GGACCAGGCTTCCGCATGTTTCCGGATATCTGTACCTCACACCAGAGACCCTTTTTTAGAGAAAATCAA  
 CAGATCACCGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206748 protein sequence  
 Red=Cloning site Green=Tags(s)

MCDRNGGRRLRQWLIEQIDSSMYPGLIWENDEKTMFRIPWKHAGKQDYNQEVDASIFKAWAVFKGKFKEG  
 DKAEPATWKTRLRCALNKSPDFEEVTDRLDISEPYKVYRIVPEEEQKCKLGVAPAGCMSEVPEMECGR  
 SEIEELIKEPSVDEYMGMTKRSPPEACRSQILPDWWWQPSAGLPLVTGYAAYDTHHSAFSQMVISFY  
 YGGKLVGQATTTCLEGRLLSLSQPLPKLYGPDGLEPVCFTADTIPSERQRQVTRKLFHGLERGVLLHS  
 NRKGVFVKRLCQGRVFCSGNAVVCKGRPNKLERDEVVQVFDTNQFIRELQQFYATQSRLPDSRVVLCFGE  
 EFPDTPVPLRSKLLVQVEQLYARQLVEEAGKSCGAGSLMPALEEPQPDQAFRMFPDICTSHQRPFRENQ  
 QITV

**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\_008320

**ORF Size:** 1275 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\\_008320.4](#)
**RefSeq Size:** 2855 bp

**RefSeq ORF:** 1275 bp

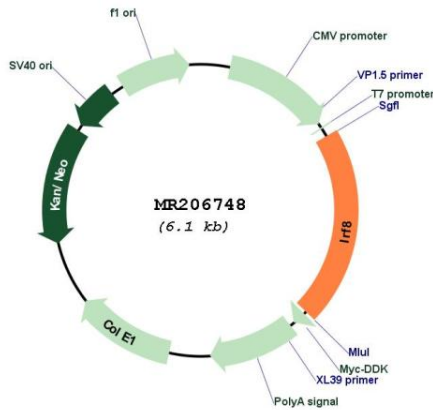
**Locus ID:** 15900

**UniProt ID:** [P23611](#)
**Cytogenetics:** 8 70.05 cM

**MW:** 48.2 kDa

**Gene Summary:** The protein encoded by this gene is a transcription factor that belongs to the interferon regulatory factor family. Proteins belonging to this family have a DNA binding domain at the amino terminus that contains five well-conserved tryptophan-rich repeats. This domain recognizes DNA sequences similar to the interferon-stimulated response element. The protein encoded by this gene promotes or suppresses lineage-specific genes to regulate the differentiation of lymphoid and myeloid lineage cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

**Product images:**



Circular map for MR206748