

Product datasheet for **RC217874**

IRF7 (NM_004029) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRF7 (NM_004029) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRF7
Synonyms:	IMD39; IRF-7; IRF-7H; IRF7A; IRF7B; IRF7C; IRF7H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217874 representing NM_004029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTTGGCTCCTGAGAGGGCAGCCCCACGCTGCTGTTCCGAGAGTGGCTCCTTGGAGAGATCAGCA
 GCGGCTGCTATGAGGGGCTGCAGTGGCTGGACGAGGCCCGCACCTGTTCCGCGTGCCCTGGAAGCACTT
 CGCGCGCAAGGACCTGAGCGAGGCCGACGCGCGCATCTTCAAGGCCTGGGCTGTGGCCCGCGGCAGGTGG
 CCGCTAGCAGCAGGGGAGGTGGCCCGCCCCGAGGCTGAGACTGCGGAGCGCGCCGGCTGAAAAACCA
 ACTTCCGCTGCGCACTGCGCAGCACGCGTTCGTTGATGCTGCGAGATAACTCGGGGACCCGGCCGA
 CCCGCACAAGGTGTACGCGCTCAGCCGGGAGTGTGCTGGCGAGAAGGCCAGGCACGGACCAGACTGAG
 GCAGAGGCCCGCGAGTGTCCACCACCACAGGGTGGGCCCCAGGGCCATTCTGGCACACACATG
 CTGGACTCCAAGCCCAGGCCCTCCCTGCCAGCTGGTGAAGGGGACCTCTGCTCCAGGCAGT
 GCAACAGAGCTGCCTGGCAGACCATCTGCTGACAGCGTCATGGGGGCGAGATCCAGTCCCAACCAAGGCT
 CCTGGAGAGGGACAAGAAGGGCTTCCCCTGACTGGGGCCTGTGCTGGAGGCGAGGCCGCGGCCCCAGAGT
 CCCCACAGGAGAGCCGTACCTGTACCCTCCCAAGCGCCTGCACCGCGGTGCAAGAGCCCAGCCC
 AGGGGCGCTGGACGTGACCATCATGTACAAGGGCCGACGGTGTGCAGAAGGTGGTGGGACACCCGAGC
 TGCACGTTCTATACGGCCCCCAGACCAGCTGTCCGGCCACAGACCCACAGAGGTAGCATTCCCA
 GCCCTGCCGAGCTCCCGGACCAGAAGCAGCTGCGCTACACGGAGGAACTGCTGCGGCACGTGGCCCTGG
 GTTGCACCTGGAGCTTCGGGGCCACAGCTGTGGGCCCGCGCATGGCAAGTGAAGGTGTACTGGGAG
 GTGGGCGGACCCAGGCTCCGCCAGCCCCTCCACCCAGCCTGCCTGCTGCCTCGGAACCTGTGACACCC
 CCATCTCGACTTCAGAGTCTTCTTCAAGAGCTGGTGAATTCGGGACGGCAGCGAGCTGGCTCCCC
 ACGCTATACCATCTACCTGGGCTTCGGGACAGACCTGTGCTGAGTGGAGGCCCAAGGAGAAGAGCTGGTC
 CTGGTGAAGCTGGAACCTGGCTGTGCCAGTGCACCTAGAGGGCACGCAGCGTGAAGGTGTGCTTCCC
 TGGATAGCAGCAGCTCAGCCTCTGCTGTCCAGCGCCAACAGCCTCTATGACGACATCGAGTGTCTCT
 TATGGAGCTGGAGCAGCCCGCC

AG**GACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC217874 representing NM_004029
 Red=Cloning site Green=Tags(s)

MALAPERAAPRVLFGWLLGEISSGCEGLQWLDEARTCFRVPWKHFARKDLSEADARIFKAWAVARGRW
 PPSSRGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALSRELCWREGPTDQTE
 AEAPAAVPPPQGGPPGFLAHTHAGLQAPGPLPAPAGDKDLLLLQAVQQSCLADHLLTASWGADPVPTKA
 PGEQEGPLTGACAGGEEAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRVTLQKVVGHP
 CTFLYGPDPFAVRATDPQVAFPSPAELPDQQLRYTEELLRHVAPGLHLELRGPQLWARRMGKCKVYWE
 VGGPPGSASPSTPAALLPRNCDTPIFDFRVFQELVEFRARQRRGSPRYTIYLFQGDLSAGRPKEKSLV
 LVKLEPWLCRVHLEGTQREGVSSLDSSLSLCLSSANSLYDDIECFLEMEQPA

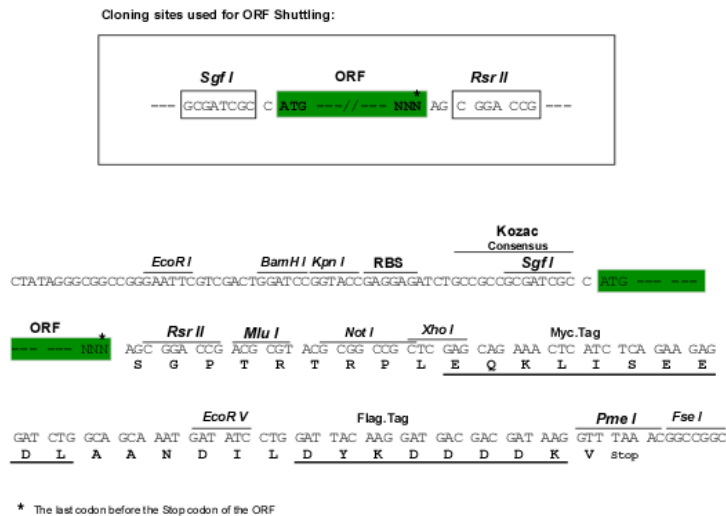
SGPTRRRLEQKLISEEDLAANDILDYKDDDDK

Chromatograms:

https://cdn.origene.com/chromatograms/mk6622_c01.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


- ACCN:** NM_004029
- ORF Size:** 1422 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_004029.4](#)
- RefSeq Size:** 1816 bp
- RefSeq ORF:** 1425 bp
- Locus ID:** 3665
- UniProt ID:** [Q92985](#)
- Cytogenetics:** 11p15.5

Domains: IRF

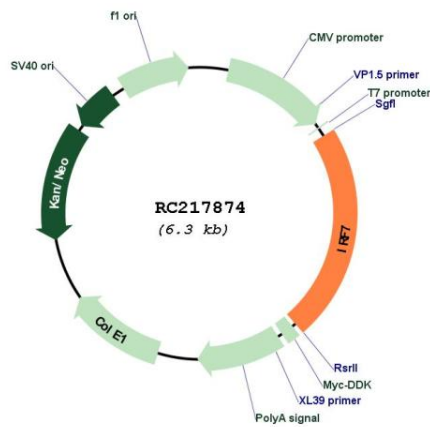
Protein Families: Transcription Factors

Protein Pathways: Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

MW: 51.3 kDa

Gene Summary: IRF7 encodes interferon regulatory factor 7, a member of the interferon regulatory transcription factor (IRF) family. IRF7 has been shown to play a role in the transcriptional activation of virus-inducible cellular genes, including interferon beta chain genes. Inducible expression of IRF7 is largely restricted to lymphoid tissue. Multiple IRF7 transcript variants have been identified, although the functional consequences of these have not yet been established. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217874