

Product datasheet for RC230998

IRF3 (NM_001197127) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IRF3 (NM_001197127) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IRF3
Synonyms: IIAE7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC230998 representing NM_001197127
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGTGGCCCCACTCCAGATCCGGGACCCCAAGCCTGGCTGTAGCCCCTGAGCCCTGCCCTCAGC
CCCTGCGGAGCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCTGGGGCCCTCTGAGAACCCACTGAA
GCGGCTGTGGTCCGGGGGAAGATCTGATTACCTTACGGAAGGAAGCGGACGCTCACCACGCTATGCC
CTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAAGAGGCTCGTGATGGTCAAGG
TTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCCGGTAGGGGTGCCTCCTCCCTGGAGAATAC
TGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGCCTACCTGCAG
GACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230998 representing NM_001197127
Red=Cloning site Green=Tags(s)

MVLAPLPDPGPPSLAVAPEPCPQPLRSPSLDNPTFPNLPSENPLKRLLVPGEDLITFTEGSGRSPRYA
LWFCVGESWPQDQPWKRLVMVKVVPTCLRALVEMARVGGASSENTVDLHISNSHPLSLTSDQYKAYLQ
DLVEGMDFQGPGES

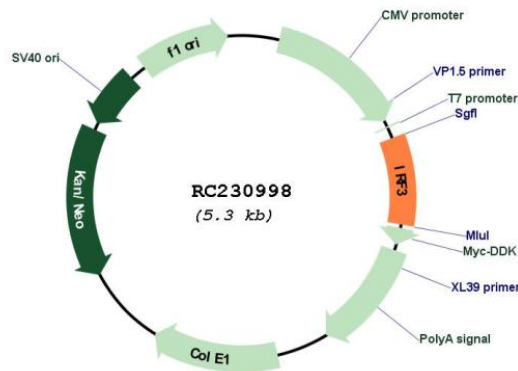
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001197127

ORF Size: 462 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:	<u>NM_001197127.2</u>
RefSeq ORF:	465 bp
Locus ID:	3661
UniProt ID:	<u>Q14653</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
MW:	17.2 kDa
Gene Summary:	This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. The protein plays an important role in the innate immune response against DNA and RNA viruses. Mutations in this gene are associated with Encephalopathy, acute, infection-induced, herpes-specific, 7. [provided by RefSeq, Sep 2020]