

Product datasheet for **SC331195**

IRF3 (NM_001197126) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IRF3 (NM_001197126) Human Untagged Clone
Tag: Tag Free
Symbol: IRF3
Synonyms: IIAE7
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331195 representing NM_001197126.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGTGTGGCCCACTCCAGATCCGGGACCCCAAGCCTGGCTGTAGCCCTGAGCCCTGCCCTCAG
CCCCTGCGGAGCCCACTTGGACAATCCCACTCCCTCCCAAACCTGGGGCCCTCTGAGAACCCACTG
AAGCGCTGTTGGTGCCGGGGAAGAGTGGGAGTTCGAGGTGACAGCCTTCTACCGGGCCGCAAGTC
TTCCAGCAGACCATCTCTGCCCGGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGACAGGACGCTG
CCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTACGTG
AGGCATGTGCTGAGCTGCCTGGTGGGGACTGGCTCTCTGGCGGCGGGCAGTGGCTCTGGGCCAG
CGGCTGGGGCACTGCCACATACTGGGAGTGAGCGAGGAGCTGCTCCCAACAGCGGGCATGGGCCT
GATGGCGAGGTCCCAAGGACAAGGAAGGAGGCGTGTGGACCTGGGGCCCTTATTGTAGATCTGATT
ACCTTCACGGAAGGAAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGAGTCATGGCCC
CAGGACCAGCCGTGGACCAAGAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCCTCAGGGCCTTGTA
GAAATGGCCCGGGTAGGGGTGCCTCCTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCAC
CCACTCTCCCTCACCTCCGACCAGTACAAGGCCTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAG
GGCCCTGGGGAGAGCTGA
```

Restriction Sites: SgfI-MluI
ACCN: NM_001197126
Insert Size: 846 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001197126.1</u>
RefSeq Size:	1281 bp
RefSeq ORF:	846 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:	30.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6, also known as IRF3c) lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (5) is shorter than isoform 1. Both variants 5 and 6 encode the same isoform (5).</p>