

## Product datasheet for **RG233629**

### IRF3 (NM\_001197126) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IRF3 (NM_001197126) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRF3
Synonyms:	IIAE7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233629 representing NM_001197126 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGTGGCCCCACTCCAGATCCGGGACCCCCAAGCCTGGCTGTAGCCCCTGAGCCCTGCCCTCAGC  
CCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCTGGGGCCCTCTGAGAACCCACTGAA  
GCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTCGAGGTGACAGCCTTCTACCGGGCCGCAAGTCTTC  
CAGCAGACCATCTCCTGCCCGGAGGGCCTGCGGCTGGTGGGTCCGAAGTGGGAGACAGGACGCTGCCTG  
GATGGCCAGTCACACTGCCAGACCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTACGTGAGGCA  
TGTGCTGAGCTGCCTGGGTGGGGACTGGCTCTCTGGCGGGCCGGCAGTGGCTCTGGGCCAGCGGCTG  
GGCAGTCCACACATACTGGGAGTGAGCGAGGAGCTGCTCCCAACAGCGGGCATGGGCTGATGGCG  
AGGTCCCCAAGGACAAGGAAGGAGGCGTGTGGACCTGGGGCCCTTATTGTAGATCTGATTACCTTCAC  
GGAAGGAAGCGGACGCTCACCACGCTATGCCCTCTGGTCTGTGTGGGGAGTCATGGCCCCAGGACCAG  
CCGTGGACCAAGAGGCTCGTGATGGTCAAGTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCC  
GGGTAGGGGTGCCTCCTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCT  
CACCTCCGACCAAGGCTACCTGCAGGACTTGGTGGAGGGCATGGATTCCAGGGCCCTGGGGAG  
AGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233629 representing NM\_001197126  
Red=Cloning site Green=Tags(s)

MVLAPLPDPGPPSLAVAPEPCPQPLRSPSLDNPTFPNLPSENPLKRLLVPGEEWEFEVTFYRGRQVF  
 QQTISCPEGLRLVGSEVGDRTLPGWPVTLDPGMSLDRGVMSYVRHVL SCLGGGLALWRAGQWLWAQRL  
 GHCHTYWAVSEELLPNSGHGPDGEVPKDKEGGVFDLGPFI VDLITFTEGSGRSPRYALWFCVGESWPDQ  
 PWTKRLVMVKVPTCLRALVEMARVGGASLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGE  
 S

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001197126

**ORF Size:** 843 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\\_001197126.2](#)

**RefSeq Size:** 1281 bp

**RefSeq ORF:** 846 bp

**Locus ID:** 3661

**UniProt ID:** [Q14653](#)

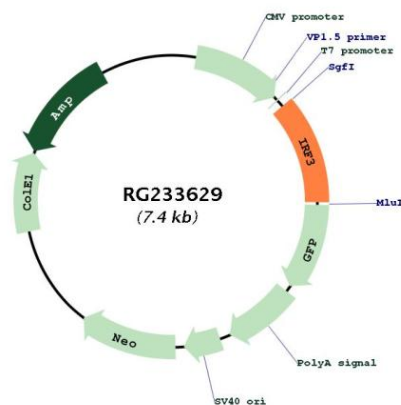
**Cytogenetics:** 19q13.33

**Protein Families:** Druggable Genome, Transcription Factors

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

**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]

### Product images:



Circular map for RG233629