

Product datasheet for **RG231203**

IRF3 (NM_001197123) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IRF3 (NM_001197123) 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: >RG231203 representing NM_001197123
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGGGCGCAAGCAGGGTTGGAGCTGCAGGGTTACGGGAATAAAACCGGAAAGCCGGCCTGGGCCG
AGGCCACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTC
TGCCCTCAACCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAA
ATCTACGAGTTTGTGAACCTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGT
GAGGCAGTACTTCTGATACCCAGGAAGACATTCTGGATGAGTTACTGGTAACATGGTGTGGCCCCACT
CCCAGATCCGGGACCCCAAGCCTGGCTGTAGCCCTGAGCCCTGCCCTCAGCCCTGCGGAGCCCCAGC
TTGGACAATCCCACTCCCTTCCCAAACCTGGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTCCGG
GGGAAGAGTGGGAGTTCGAGGTGACAGCCTTCTACCGGGCCGCAAGTCTTCCAGCAGACCATCTCCTG
CCCGGAGGGCCTGCGGCTGGTGGGTCCGAAGTGGGAGACAGGACGCTGCCTGGATGGCCAGTCACACTG
CCAGACCTGGCATGTCCTGACAGACAGGGGAGTGATGAGCTACGTGAGGCATGTGCTGAGCTGCCTGG
GTGGGGACTGGCTCTCTGGCGGGCCGGCAGTGGCTCTGGGCCAGCGGCTGGGCACTGCCACACATA
CTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGCCATGGCCCTGATGGCGAGGTCCCCAAGGACAAG
GAAGGAGCGGTGTTGACCTGGGGCCCTTCAATTGTAGATCTGATTACCTTACGGAAGGAAGCGGACGCT
CACCACGCTATGCCCTCTGGTTCTGTGTGGGGAGTCATGGCCCCAGGACCGCGTGGACCAAGAGGCT
CGTGATGGTCAAGTTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGTAGGGGGTGCCTCC
TCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACA
AGGCCTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG231203 representing NM_001197123
Red=Cloning site Green=Tags(s)

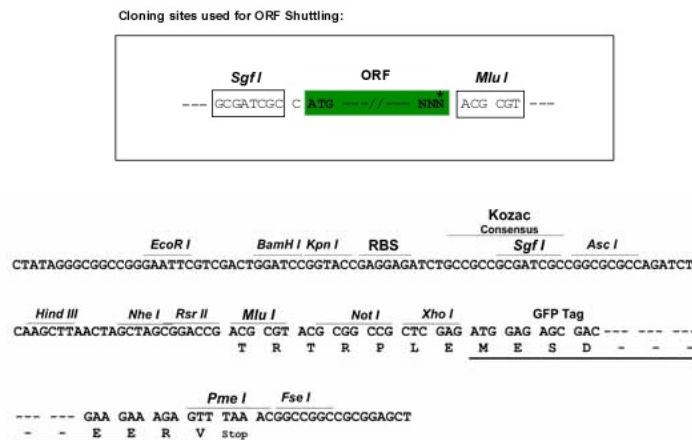
MVGRKQGWSRVGTGIKPGKPAWAEATGAYVPGRDKPDLPWKRNFERSALNRKEGLRLAEDRSKDPHDPHK
 IYEFVNSGVGDFSQPDTSPDTNGGGSTSDTQEDILDELLGNMVLAPLPDPGPPSLAVAPEPCPQLRSPS
 LDNPTFPFNLGSENPLKRLVPGEEWEFEVTA FYRGRQVFQQT I SCPEGLRLVGSEVGDRTLPGWPVTL
 PDPGMSL TDRGVMSYVRHVL SCLGGGLALWRAGQWLWAQRLGHCHTYWAVSEELL PNSSGHGPDPGEVPKDK
 EGGVFDLGPFIVDLITFTEGSGRSPRYALWFCVGESWPDQDPWTKRLVMVKVVP TCLRALVEMARVGGAS
 SLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGGPES

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3494_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001197123

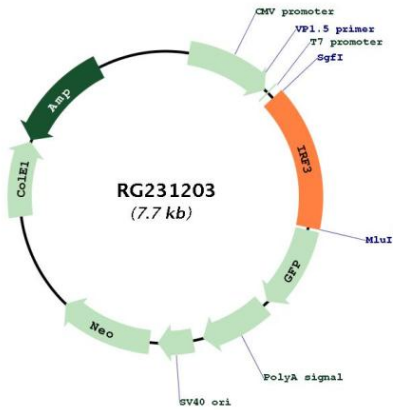
ORF Size: 1176 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001197123.2</u>
RefSeq Size:	1684 bp
RefSeq ORF:	1179 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
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 RG231203