

Product datasheet for **RG203500**

IRF1 (NM_002198) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | IRF1 (NM_002198) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | IRF1 |
| Synonyms: | IRF-1; MAR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG203500 representing NM_002198 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCATCACTCGGATGCGCATGAGACCCTGGCTAGAGATGCAGATTAATTCACCAAAATCCCGGGC
TCATCTGGATTAATAAGAGGAGATGATCTTCCAGATCCCATGGAAGCATGCTGCCAAGCATGGCTGGGA
CATCAACAAGGATGCCTGTTTGTCCGGAGCTGGGCCATTCACACAGGCCGATACAAAGCAGGGGAAAAG
GAGCCAGATCCCAAGACGTGGAAGGCCAACTTTCGCTGTGCCATGAACCTCCGAGATATCGAGGAGG
TGAAAGACCAGAGCAGGAACAAGGCAGCTCAGCTGTGCGAGTGTACCGGATGCTCCACCTCTCACCAA
GAACCAGAGAAAAGAAAAGTGAAGTCCAGCCGAGATGCTAAGAGCAAGGCCAAGAGGAAGTCATGT
GGGGATTCCAGCCCTGATACCTTCTCTGATGGACTCAGCAGCTCCACTCTGCCTGATGACCACAGCAGCT
ACACAGTTCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTGCGCATGTGC
TGTGAGCAGCACTCTCCCGACTGGCAGCATCCAGTGGAGTTGTGCCGGACAGCACCAGTATCTGTAC
AACTTCCAGGTGTCAACCATGCCCTCCACTCTGAAGTACAACAGATGAGGATGAGGAAGGAAATTAC
CTGAGGACATCATGAAGCTTTGGAGCAGTCGGAGTGGCAGCCAACAACGTGGATGGGAAGGGTACCT
ACTCAATGAACCTGGAGTCCAGCCACCTCTGTCTATGGAGACTTAGCTGTAAGGAGGAGCCAGAAATT
GACAGCCAGGGGGGATATTGGCTGAGTCTACAGCTGTCTTACAGATCTGAAGAACATGGATGCCA
CCTGGCTGGACAGCCTGCTGACCCAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203500 representing NM_002198
 Red=Cloning site Green=Tags(s)

MPITRMRMRPWLEMQINSNQIPLIWINKEEMIFQIPWKHAAKHGWDINKDACLFRSWAIHTGRYKAGEK
 EPDPKTWKANFRFCAMNSLPDIEEVKQSRNKGSSAVRVYRMLPPLTKNQKSKSRDAKSKAKRKSC
 GDSSPDTFSDGLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSSTLPDWHIPVEVVPDSTDL
 YNFQVSPMPSTSEATTTDEDEEGKLPEDIMKLLLEQSEWQPTNVDGKGYLLNEPGVQPTSVYGD
 FSCKEEPEIDSPGGDIGLSLQRVFTDLKNMDATWLDLSTLTPVRLPSIQAIPCAP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002198

ORF Size: 975 bp

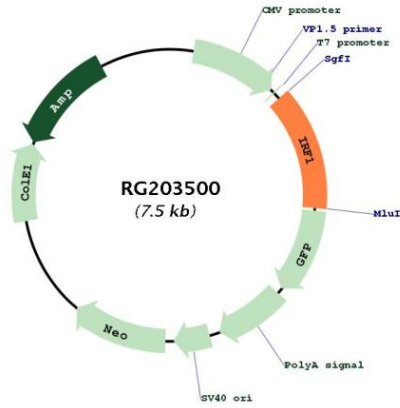
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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| 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_002198.3</u> |
| RefSeq Size: | 2035 bp |
| RefSeq ORF: | 978 bp |
| Locus ID: | 3659 |
| UniProt ID: | <u>P10914</u> |
| Cytogenetics: | 5q31.1 |
| Domains: | IRF |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | The protein encoded by this gene is a transcriptional regulator and tumor suppressor, serving as an activator of genes involved in both innate and acquired immune responses. The encoded protein activates the transcription of genes involved in the body's response to viruses and bacteria, playing a role in cell proliferation, apoptosis, the immune response, and DNA damage response. This protein represses the transcription of several other genes. As a tumor suppressor, it both suppresses tumor cell growth and stimulates an immune response against tumor cells. Defects in this gene have been associated with gastric cancer, myelogenous leukemia, and lung cancer. [provided by RefSeq, Aug 2017] |

Product images:



Circular map for RG203500