

Product datasheet for RC202102

IRF2 (NM_002199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRF2 (NM_002199) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRF2
Synonyms:	IRF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202102 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTGGAAAGGATGCGCATGCGCCCGTGGCTGGAGGAGCAGATAAACTCCAACACGATCCCGGGGC
TCAAGTGGCTTAACAAGGAAAAGAAGATTTTTAGATCCCCTGGATGCATGCGGCTAGACATGGGTGGGA
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TGAGAATCAAGAGATTGTCACCAATCCGCCAGACATTTGCCAAGTTGTAGAGGTGACCACTGAGAGCGAC
GAGCAGCCGGTCAGCATGAGCGAGCTCTACCCTCTGCAGATCTCCCCGTGTCTTCTATGCAGAAAAGCG
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GTCACCTTCAACAAACCGGACCTCCAGGTCACCATCAAAGAGGAGAGCAATCCGGTGCCTTACAACAGCT
CCTGGCCCCCTTTTCAAGACCTCCCCCTTCTTCTCCTCCATGACCCAGCATCCAGCAGCAGTCGGCCAGA
CCGGGAGACCCGGGCCAGCGTCATCAAGAAAACATCGGATATCACCCAGGCCCGCGTCAAGAGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202102 protein sequence
Red=Cloning site Green=Tags(s)

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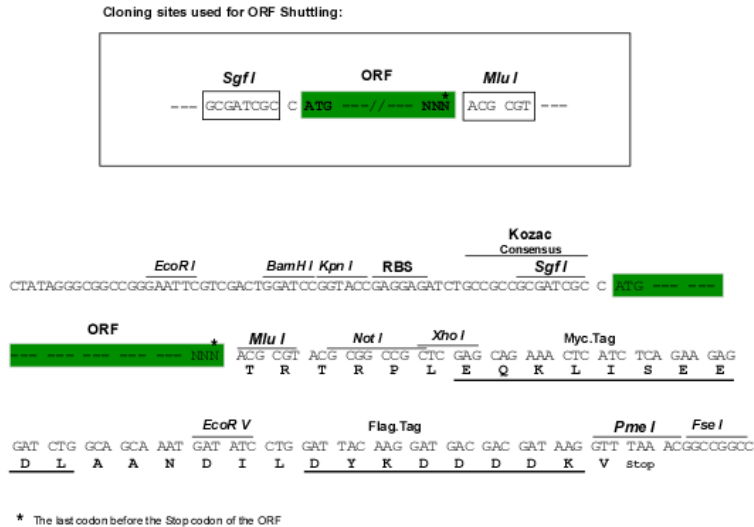
MPVERMRMPWLEEQINSNTIPLKWLNKEKIFQIPWMHAARHGWDVEKDAPLFRNWAIHGTGKHQPGVD
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```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6008_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002199

ORF Size: 1047 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002199.4](#)

RefSeq Size: 2302 bp

RefSeq ORF: 1050 bp

Locus ID: 3660

UniProt ID: [P14316](#)

Cytogenetics: 4q35.1

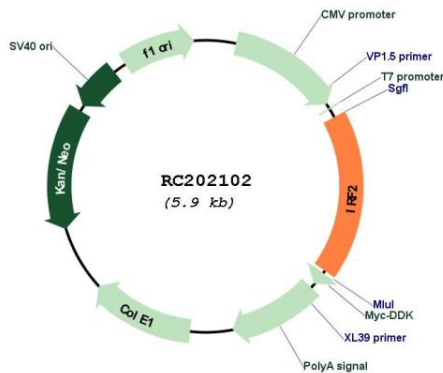
Domains: IRF

Protein Families: Druggable Genome, Transcription Factors

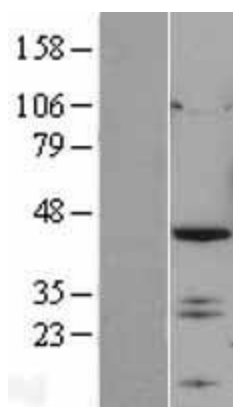
MW: 39.4 kDa

Gene Summary: IRF2 encodes interferon regulatory factor 2, a member of the interferon regulatory transcription factor (IRF) family. IRF2 competitively inhibits the IRF1-mediated transcriptional activation of interferons alpha and beta, and presumably other genes that employ IRF1 for transcription activation. However, IRF2 also functions as a transcriptional activator of histone H4. [provided by RefSeq, Jul 2008]

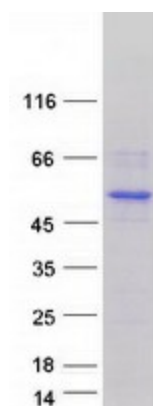
Product images:



Circular map for RC202102



Western blot validation of overexpression lysate (Cat# [LY400800]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202102 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IRF2 protein (Cat# [TP302102]). The protein was produced from HEK293T cells transfected with IRF2 cDNA clone (Cat# RC202102) using MegaTran 2.0 (Cat# [TT210002]).