

Product datasheet for **RG223649**

IFNA4 (NM_021068) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFNA4 (NM_021068) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IFNA4
Synonyms: IFN-alpha4a; INFA4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223649 representing NM_021068
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGTCTTTTCTTTACTGATGGCCGTGCTGGTGCTCAGCTACAAATCCATCTGTTCTCTGGGCT
 GTGATCTGCCTCAGACCCACAGCCTGGGTAATAGGAGGGCCTTGATACTCCTGGCACAAATGGGAAGAAT
 CTCTCATTTCTCCTGCCTGAAGGACAGACATGATTCGGATTCCCGAGGAGGAGTTTGATGGCCACCAG
 TTCCAGAAGACTCAAGCCATCTCTGTCTCCATGAGATGATCCAGCAGACCTTCAATCTCTCAGCACAG
 AGGACTCATCTGTGCTTGGGAACAGAGCCTCCTAGAAAAATTTCCACTGAACCTTACCAGCAACTGAA
 TGACCTGGAAGCATGTGTGATACAGGAGTTGGGGTGGAAAGAGACTCCCTGATGAATGAGGACTCCATC
 CTGGCTGTGAGGAAATACTTCCAAAGAATCACTCTTTATCTAACAGAGAAGAAATACAGCCCTTGTGCCT
 GGGAGGTTGTCAGAGCAGAAATCATGAGATCCCTCTCGTTTTCAACAACTTGCAAAAAAGATTAAGGAG
 GAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223649 representing NM_021068
 Red=Cloning site Green=Tags(s)

MALSFSLLMAVLVLSYKSI CSLGCDLPQTHSLGNRRALILLAQMGRISHFSLKDRHDFGFPEEEFDGHQ
 FQKTQAI SVLHEMIQQT FNLFSTEDSSAAWEQSLLEKFSSTEL YQQLNDLEACVIQEVEETPLMNEDSI
 LAVRKYQRITLYL TEKKYSPCAWEV VRAEIMRSLSFSTNLQKRLRRKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021068

ORF Size: 567 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).

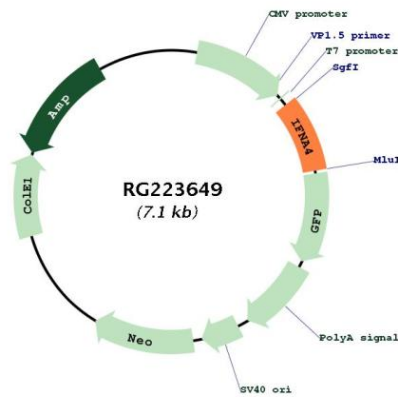
Reconstitution Method:

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_021068.1](#), [NP_066546.1](#)

RefSeq Size:	977 bp
RefSeq ORF:	570 bp
Locus ID:	3441
UniProt ID:	P05014
Cytogenetics:	9p21.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Antigen processing and presentation, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Regulation of autophagy, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	Produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223649