

Product datasheet for RG214713

IFNA16 (NM 002173) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IFNA16 (NM_002173) Human Tagged ORF Clone

Tag: TurboGFP Symbol: IFNA16

Synonyms: IFN-alpha-16; IFN-alphaO

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG214713 representing NM_002173

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214713 representing NM_002173

Red=Cloning site Green=Tags(s)

MALSFSLLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISHFSCLKDRYDFGFPQEVFDGNQFOKAQAISAFHEMIQOTFNLFSTKDSSAAWDETLLDKFYIELFQQLNDLEACVTQEVGVEEIALMNEDSI

LAVRKYFQRITLYLMGKKYSPCAWEVVRAEIMRSFSFSTNLQKGLRRKD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



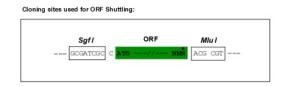
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

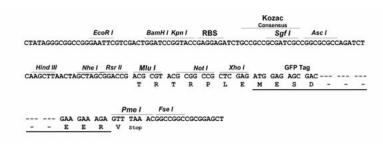
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

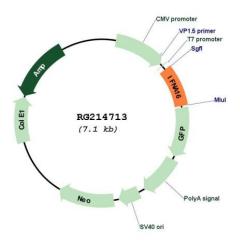


Cloning Scheme:





Plasmid Map:



ACCN: NM_002173

ORF Size: 567 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: <u>NM 002173.3</u>, <u>NP 002164.1</u>

 RefSeq Size:
 941 bp

 RefSeq ORF:
 570 bp

 Locus ID:
 3449

 UniProt ID:
 P05015

 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]