

Product datasheet for **RG211169**

Interferon alpha 8 (IFNA8) (NM_002170) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Interferon alpha 8 (IFNA8) (NM_002170) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Interferon alpha 8
Synonyms: IFN-alphaB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211169 representing NM_002170
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTTGACTTTTTATTTACTGGTGGCCCTAGTGGTGCTCAGCTACAAGTCATTCAGCTCTCTGGGCT
 GTGATCTGCCTCAGACTCACAGCCTGGGTAACAGGAGGGCCTTGATACTCCTGGCACAATGCGAAGAAT
 CTCTCCTTTCTCCTGCCTGAAGGACAGACATGACTTTGAATCCCCCAGGAGGAGTTTGATGATAAACAG
 TTCCAGAAGGCTCAAGCCATCTCTGTCTCCATGAGATGATCCAGCAGACCTTCAACCTCTTCAGCACAA
 AGGACTCATCTGCTGCTTTGGATGAGACCCTTCTAGATGAATTCTACATCGAACTTGACCAGCAGCTGAA
 TGACCTGGAGTCTGTGTGATGCAGGAAGTGGGGTGATAGAGTCTCCCTGATGTACGAGGACTCCATC
 CTGGCTGTGAGGAAATACTTCCAAGAATCACTCTATATCTGACAGAGAAGAAATACAGCTCTTGTGCCT
 GGGAGGTTGTGAGAGCAGAAATCATGAGATCCTTCTTTATCAATCAACTTGCAAAAAAGATTGAAGAG
 TAAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211169 representing NM_002170
 Red=Cloning site Green=Tags(s)

MALTFYLLVALVLSYKSFSSLGCDLPQTHSLGNRRALILLAQMRRISPFSCLKDRHDFEFPQEEFDDKQ
 FQKAQAISVLHEMIQQTFNLFSTKDSSAALDETLLEDEFYIELDQQLNDLESCVMQEVGVIESPLMYEDSI
 LAVRKYQRITLYLTKKYSSCAWEVRAEIMRSFSLINLQKRLKSKE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_002170

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: [NM_002170.4](#)

RefSeq Size: 1039 bp

RefSeq ORF: 570 bp

Locus ID: 3445

UniProt ID: [P32881](#)

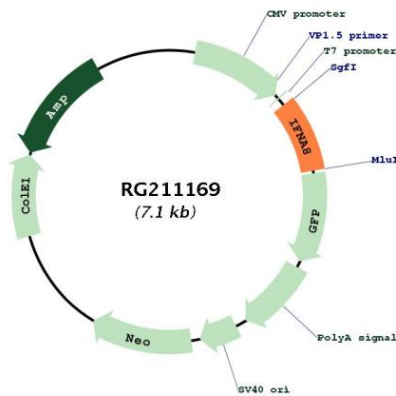
Cytogenetics: 9p21.3

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 RG211169