

Product datasheet for **RG214055**

Interferon alpha10 (IFNA10) (NM_002171) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Interferon alpha10 (IFNA10) (NM_002171) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IFNA10
Synonyms: IFN-alphaC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214055 representing NM_002171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCCCTGTCTTTTCTTTACTTATGGCCGTGCTGGTGCTCAGCTACAAATCCATCTGTTCTCTGGGCT
 GTGATCTGCCTCAGACCCACAGCCTCGGTAATAGGAGGGCCTTGATACTCCTGGGACAAATGGGAAGAAT
 CTCTCCTTTCTCCTGCCTGAAGGACAGACATGATTTCCGAATCCCCCAGGAGGATTTGATGGCAACCAG
 TTCCAGAAGGCTCAAGCCATCTCTGTCTCCATGAGATGATCCAGCAGACCTTCAATCTCTCAGCACAG
 AGGACTCATCTGTGCTTGGGAACAGAGCCTCCTAGAAAAATTTCCACTGAACCTTACCAGCAACTGAA
 TGACCTGGAAGCATGTGTGATACAGGAGTTGGGGTGGAAAGAGACTCCCCGATGAATGAGGACTCCATC
 CTGGCTGTGAGGAAATACTTCCAAGAATCACTCTTTATCTAATAGAGAGGAAATACAGCCCTTGTGCTT
 GGGAGGTTGTGAGAGCAGAAATCATGAGATCCCTCTCGTTTTCAACAACTTGCAAAAAAGATTAAGGAG
 GAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214055 representing NM_002171
 Red=Cloning site Green=Tags(s)

MALSFLLMAVLVLSYKSIICSLGCDLPQTHSLGNRRALILLGQMGRISPFSCLKDRHDFRIPQEEFDGNQ
 FQKAQAISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNDLEACVIQEVGVEETPLMNEDSI
 LAVRKYQRITLYLIERKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

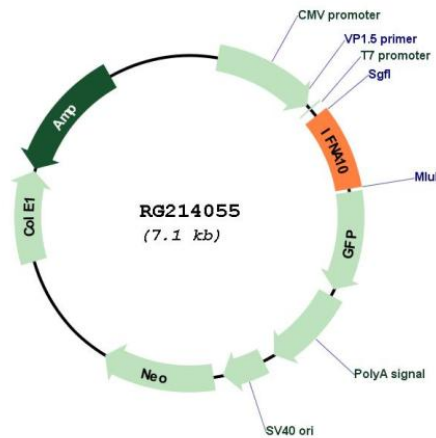


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Cloning Scheme:



Plasmid Map:



ACCN: NM_002171

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:	<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_002171.1, NP_002162.1</u>
RefSeq Size:	963 bp
RefSeq ORF:	570 bp
Locus ID:	3446
UniProt ID:	<u>P01566</u>
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:	This gene encodes a protein that belongs to the type I interferon family of proteins, and is located in a cluster of alpha interferon genes on chromosome 9. Interferons are small regulatory molecules that function in cell signaling in response to viruses and other pathogens or tumor cells. This gene is intronless and the encoded protein is secreted. [provided by RefSeq, Aug 2013]