

## Product datasheet for **SC300106**

### Interferon alpha 2 (IFNA2) (NM\_000605) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Interferon alpha 2 (IFNA2) (NM_000605) Human Untagged Clone
Tag:	Tag Free
Symbol:	Interferon alpha 2
Synonyms:	IFN-alpha-2; IFN-alphaA; IFNA; IFNA2B; IeIF A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000605 edited  
CAGCATCTGCAACATCTACAATGGCCTTGACCTTTGCTTTACTGGTGGCCCTCCTGGTGC  
TCAGCTGCAAGTCAAGCTGCTCTGTGGGCTGTGATCTGCCTCAAACCCACAGCCTGGGTA  
GCAGGAGGACCTTGATGCTCCTGGCACAGATGAGGAGAATCTCTTTTTCTCCTGCTTGA  
AGGACAGACATGACTTTGGATTTCCCCAGGAGGTTTGGCAACCAAGTTCAAAAAGGCTG  
AAACCATCCCTGTCTCCATGAGATGATCCAGCAGATCTCAATCTTTCAGCACAAAGG  
ACTCATCTGCTGCTTGGGATGAGACCCTCCTAGACAAATTCTACACTGAACTCTACCAGC  
AGCTGAATGACCTGGAAGCCTGTGTGATACAGGGGGTGGGGTGACAGAGACTCCCCTGA  
TGAAGGAGGACTCCATTCTGGCTGTGAGGAAATACTTCCAAAGAATCACTCTCTATCTGA  
AAGAGAAGAAATACAGCCCTTGTGCTGGGAGGTTGTCAGAGCAGAAATCATGAGATCTT  
TTCTTTGTCAACAACTTGCAAGAAAGTTTAAGAAGTAAGGAATGAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000605 unedited  
NNNNNNNAACTGGTGGCCCTCCTGGTGCTCAGCTGCAAGTCAAGCTGCTGTGGGCTGT  
GATCTGCCTCAAACCCACAGCCTGGGTAGCAGGAGGACCTTGATGCTCCTGGCACAGATG  
AGGAGAATCTCTTTTTCTCCTGCTTGAAGGACAGACATGACTTTGGATTTCCCCAGGAG  
GAGTTTGGCAACCAAGTTCAAAAAGGCTGAAACCATCCCTGTCCTCCATGAGATGATCCAG  
CAGATCTTCAATCTTTCAGCACAAAGGACTCATCTGCTGCTTGGGATGAGACCCTCCTA  
GACAAATTCTACACTGAACTCTACCAGCAGCTGAATGACCTGGAAGCCTGTGTGATACAG  
GGGTGGGGTGACAGAGACTCCCCTGATGAAGGAGGACTCCATTCTGGCTGTGAGGAAA  
TACTTCCAAAGAATCACTCTCTATCTGAAAGAGAAGAAATACAGCCCTTGTGCTGGGAG  
GTTGTCAGAGCAGAAATCATGAGATCTTTTTCTTTGTCAACAACTTGCAAGAAAGTTTA  
AGAAGTAAGGAATGAAAAGTGGTTCAACATGGAAGGGCGAATTCAGATCTGGTACCGATA  
TCAAGCTTGTGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTTGAACAGATCCCGG  
GTGGCATCCCTGTGACCCTCCCATGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTG  
CCCACCAGCCTTGTCTTA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_000605
<b>Insert Size:</b>	600 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000605.2</a> , <a href="#">NP_000596.2</a>
<b>RefSeq Size:</b>	1142 bp
<b>RefSeq ORF:</b>	567 bp
<b>Locus ID:</b>	3440
<b>UniProt ID:</b>	<a href="#">P01563</a>
<b>Cytogenetics:</b>	9p21.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded cytokine is a member of the type I interferon family that is produced in response to viral infection as a key part of the innate immune response with potent antiviral, antiproliferative and immunomodulatory properties. This cytokine, like other type I interferons, binds a plasma membrane receptor made of IFNAR1 and IFNAR2 that is ubiquitously expressed, and thus is able to act on virtually all body cells. The encoded protein is effective in reducing the symptoms and duration of the common cold and in treating many types of cancer, including some hematological malignancies and solid tumors. A deficiency of type I interferon in the blood is thought to be a hallmark of severe COVID-19 and may provide a rationale for a combined therapeutic approach. [provided by RefSeq, Aug 2020]