

## Product datasheet for **SC300109**

### Interferon gamma (IFNG) (NM\_000619) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Interferon gamma (IFNG) (NM_000619) Human Untagged Clone
Tag:	Tag Free
Symbol:	Interferon gamma
Synonyms:	IFG; IFI; IMD69
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\_000619 edited  
AAACGATGAAATATACAAGTTATCTTGGCTTTTCAGCTCTGCATCGTTTTGGTTCTC  
TTGGCTGTTACTGCCAGGACCCATATGTAAAAGAAGCAGAAAACCTTAAGAAATATTTA  
ATGCAGGTCATTAGATGTAGCGGATAATGGAACCTTTTTCTTAGGCATTTTGAAGAATT  
GGAAAGAGGAGAGTGACAGAAAAATAATGCAGAGCCAAATTGTCTCTTTTACTTCAAAC  
TTTTTAAAACTTTAAAGATGACCAGAGCATCCAAAAGAGTGTGGAGACCATCAAGGAAG  
ACATGAATGTCAAGTTTTTCAATAGCAACAAAAAGAAACGAGATGACTTCGAAAAGCTGA  
CTAATTATTCGGTAACTGACTTGAATGTCCAACGCAAAGCAATACATGAACCTATCCAAG  
TGATGGCTGAACGTCCGACGAGCTAAAACAGGGAAGCGAAAAAGGAGTCAGATGCTGT  
TTCGAGGTCGAAGAGCATCCCAGTAATGGTTGCTCTGCCTGCAATATTTGAATTTAAAT  
CTAAATCTATTTATTAATATTTAACATTATTTATATGGGGAATATATTTTGTAGACTCATC  
AATCAAATAAGTATTTATAATAGCAACTTTTGTGTAATGAAAATGAATATCTATTAATAT  
ATGTATATTTATAAATCCTATATCCTGTGACTGTCTCACTTAATCCTTTGTTTTCTGAC  
TAATTAGGCAAGGCTATGTGATTACAAGGCTTTATCTCAGGGGCAACTAGGCAGCCAAC  
CTAAGCAAGATCCCATGGGTTGTGTGTTATTTCACTTGATGATACAATGAACACTTATA  
AGTGAAGTGATACTATCCAGTACTGCCGGTTTAAAAATATGCCTGCAATYTGAGCCAGT  
GCTTTAATGGCATGTCAGACAGAACTTGAATGTGTCAGGTGACCCGTGATGAAAACATAGC  
ATCTCAGGAGATTTTCATGCCTGGTGCTTCCAAATATTGTTGACAACGTGACTGTACCCA  
AATGAAAAGTAACTCATTTGTTAAAATTATCAATATCTAATATATGAATAAAGTGTA  
GTTCAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000619 unedited GGGAGTTGGATTTGTATACGATCATATAGGCGGCCGCGNAATTCGCTCGGNAACGATG AATATACAAGTTATATCTTGGCTTTTCAGCTCTGCATCGTTTTGGGTTCTCTTGGCTGTT ACTGCCAGGACCCATATGTAAAAGAAGCAGAAAACCTTAAGAAATATTTAATGCAGGTC ATTCAGATGTAGCGGATAATGGAACCTTTTCTTAGGCATTTTGAAGAATTGGAAAGAGG AGAGTGACAGAAAAATAATGCAGAGCCAAATTGTCTCCTTTTACTTCAAACCTTTTAAAA ACTTTAAAGATGACCAGAGCATCCAAAAGAGTGTGGAGACCATCAAGGAAGACATGAATG TCAAGTTTTTCAATAGCAACAAAAAGAAACGAGATGACTTCGAAAAGCTGACTAATTATT CGGTAAGTACTTGAATGTCCAACGCAAAGCAATACATGAACTCATCCAAGTGATGGCTG AACTGTGCGCCAGCAGCTAAAACAGGGAAGCGAAAAAGGAGTCAGATGCTGTTTCGAGGTC GAAGAGCATCCCAGTAATGGTTGCCTGCCTGCAATATTTGAATTTTAAATCTAAATCTA TTTATTAATATTTAACATTATTTATATGGNGAATATATTTTACTCATCAATCANATA AGTATTTATAATAGCAACTTTTGTGNTATGAAAATGAATATCTATTAATATATGTATTAT TTATAATTCCTATATCCTGTGACTGTCTCACTTAATCCTTTGTTTTCTGACTAAATTAGG CAGGCTATGTGATTACAAGGCTTTATCTCAGGGGCCAACTANGCAGCCAACCTAAGCAAG ATCCCATGGGTTNGTGTGTTTATTTCACTTTGATGATACATGAACACTTATNAGTGAAGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000619
<b>Insert Size:</b>	1100 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<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_000619.2</a> , <a href="#">NP_000610.2</a>

RefSeq Size:	1240 bp
RefSeq ORF:	501 bp
Locus ID:	3458
UniProt ID:	<a href="#">P01579</a>
Cytogenetics:	12q15
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Allograft rejection, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Proteasome, Regulation of autophagy, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Type I diabetes mellitus
Gene Summary:	This gene encodes a soluble cytokine that is a member of the type II interferon class. The encoded protein is secreted by cells of both the innate and adaptive immune systems. The active protein is a homodimer that binds to the interferon gamma receptor which triggers a cellular response to viral and microbial infections. Mutations in this gene are associated with an increased susceptibility to viral, bacterial and parasitic infections and to several autoimmune diseases. [provided by RefSeq, Dec 2015]