

Product datasheet for **SC331657**

IFI16 (NM_001206567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFI16 (NM_001206567) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFI16
Synonyms:	IFNGIP1; PYHIN2
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331657 representing NM_001206567.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGATTATCATTTTAGA
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GAAGATATACCAACGCTTGAAGACCTGGCTGAAACTCTTAAAAAAGAAAAGTTAAAAAGTAAAAGGACCA
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ATACTCAATCCTGATTCAAGTATGGAACTTCACCAGACTTTTTCTCTAA
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Restriction Sites: SgfI-MluI

ACCN: NM_001206567

Insert Size: 2190 bp

OTI Disclaimer: 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).

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_001206567.1](#)

RefSeq Size: 2750 bp

RefSeq ORF: 2190 bp

Locus ID: 3428

UniProt ID: [Q16666](#)

Cytogenetics: 1q23.1

Protein Families: Transcription Factors

MW: 82.6 kDa

Gene Summary: This gene encodes a member of the HIN-200 (hematopoietic interferon-inducible nuclear antigens with 200 amino acid repeats) family of cytokines. The encoded protein contains domains involved in DNA binding, transcriptional regulation, and protein-protein interactions. The protein localizes to the nucleoplasm and nucleoli, and interacts with p53 and retinoblastoma-1. It modulates p53 function, and inhibits cell growth in the Ras/Raf signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011]

Transcript Variant: This variant (1) lacks an in-frame exon in the 5' coding region and has an additional in-frame exon in the 3' coding region, compared to variant 2. The additional exon is described as exon 7a in PMID:9718316. The resulting isoform (1) is of the same size but lacks a segment in the N-terminal region and has an additional segment in the C-terminal region, compared to isoform 2. Note the CDS was annotated to initiate translation from an in-frame downstream AUG, as it is flanked by a strong Kozak signal, and is better conserved than the upstream AUG located 4 codons upstream.