

## Product datasheet for **SC104269**

### IRF5 (NM\_032643) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IRF5 (NM_032643) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRF5
Synonyms:	SLEB10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC104269 sequence for NM\_032643 edited (data generated by NextGen Sequencing)

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ATGAACCAAGTCCATCCCAGTGGCTCCCACCCACCCCGCCGCGTGCAGGCTGAAGCCCTGG
CTGGTGGCCAGGTGAACAGCTGCCAGTACCCAGGGCTTCAATGGGTCAACGGGGAAAAG
AAATTATTCTGCATCCCCTGGAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGAT
AACACCATCTTCAAGCCTGGGCCAAGGAGACAGGGAAATACACCGAAGGCGTGGATGAA
CCGCATCCGGCCAAGTGGAAAGGCCAACCTGCGCTGTGCCCTTAAACAAGAGCCGGGACTTC
CGCCTCATCTACGACGGGCCCGGGACATGCCACCTCAGCCCTACAAGATCTACGAGGTC
TGCTCCAATGGCCCTGCTCCCACAGACTCCCAGCCCCCTGAGGATTACTCTTTTGGTGCA
GGAGAGGAGGAGGAAGAAGAGGAAGAGCTGCAGAGGATGTTGCCAAGCCTGAGCCTCACA
GAGGATGTCAAGTGGCCGCTACTCTGCAGCCGCCACTCTGCRGCCGCTACTCTGCAG
CCGCCACTCTGCAGCCGCCGCTGGTGTGGGTCCCCCTGCTCCAGACCCAGCCCCCTG
GCTCTCCCCCTGGCAACCCTGCTGGCTTCAGGGAGCTTCTCTCTGAGGTCTGGAGCCT
GGGCCCTGCCTGCCAGCCTGCCCCCTGCAGGGCAACAGCTCCTGCCAGACCTGCTGATC
AGCCCCACATGTGCTCTGACCGACCTGGAGATCAAGTTTCAGTACCGGGGGCGGCCA
CCCCGGGCCCTCACCATCAGCAACCCCATGGCTGCCGGCTCTTCTACAGCCAGCTGGAG
GCCACCCAGGAGCAGGTGGAACCTTTCGGCCCCATAAGCCTGGAGCAAGTGCCTTCCCC
AGCCCTGAGGACATCCCCAGTGACAAGCAGCGCTTCTACACGAACCAGCTGCTGGATGTC
CTGGACCGCGGGCTCATCCTCCAGCTACAGGGCCAGGACCTTTATGCCATCCGCCTGTGT
CAGTGCAAGGTGTTCTGGAGCGGGCCTTGTGCCTCAGCCCATGACTCATGCCCAACCC
ATCCAGCGGGAGGTCAAGACCAAGCTTTTCAGCCTGGAGCATTTTCTCAATGAGCTCATC
TGTTCCAAAAGGGCCAGACCAACCCACCACCTTCGAGATCTTCTCTGCTTTGGG
GAAGAATGGCCTGACCGCAAACCCCGAGAGAAGAAGCTCATTACTGTACAGGTGGTGCCT
GTAGCAGCTCGACTGCTGCTGGAGATGTTCTCAGGGGAGCTATCTTGGTACAGCTGATAGT
ATCCGGCTACAGATCTCAAACCCAGACCTCAAAGACCGCATGGTGGAGCAATTCAAGGAG
CTCCATCACATCTGGCAGTCCCAGCAGCGTTGCAGCCTGTGGCCAGGCCCTCCTGGA
GCAGGCCCTTGGTGTGGCCAGGGGCCCTGGCCTATGCACCCAGCTGGCATGCAATAA
    
```

Clone variation with respect to NM\_032643.3  
 501 c=>t;524 g=>r

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_032643 unedited
GGATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGGTGCTCCCTG
GCGCAGCCACGCAGGGCCACCGCAGACAGACCCCTCTGCCATGAACCAGTCCATCCCAGT
GGCTCCCACCCACCCCGCCGCTGCGGCTGAAGCCCTGGCTGGTGGCCAGGTGAACAG
CTGCCAGTACCCAGGGCTTCAATGGGTCAACGGGGAAAAGAAATTATTCTGCATCCCCTG
GAGGCATGCCACAAGGCATGGTCCCAGCCAGGACGGAGATAACACCATCTTCAAGGCCTG
GGCCAAGGAGACAGGGAAATACACCGAAGCGTGGATGAAGCCGATCCGGCCAAGTGGAA
GGCCAACCTGCGCTGTGCCCTTAAACAAGAGCCGGACTTCCGCCCTCATCTACGACGGCC
CCGGGACATGCCACCTCAGCCCTACAAGATCTACGAGGTCTGCTCCAATGGCCCTGCTCC
CACAGACTCCCAGCCCCCTGAGGATTACTCTTTTGGTGCAGGAGAGGAGGAGGAAGAAGA
GGAAGAGCTGCAGAGGATGTTGCCAAGCCTGAGCCTCACAGAGGATGTCAAGTGGCCGCC
CACTCTGCAGCCGCCACTCTGCGGCCGCTACTCTGCAGCCGCCACTCTGCAGCCGCC
CCGTGGTGTGGGTCCCCNTGCTCCAGACCCAGCCCCCTGGCTCCTCCCCCTGGCAA
CCCTGCTGGCTTCAAGGAGCTTCTTTCTGAGTCTGGAGCCTGNGCCCCCTGCTGCCAG
CCTGCCCCCTGCANGCGAACAGCTCCTGCCAGACCTGCTGATCAGCCCCCATGCTGNCT
CTGACGANCTGGAGNACAAGNTTCAGTACCGGGGGCGGNACCCCGGGCCTCACATCAGC
ACCCCATGGTGNCGCTCTCTCANCAGCTGGAGCACCAGAACAGGTGGACTCTTCGCCCA
TAGCTGGAGCAGGCN
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_032643 unedited CCCGCATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAATTTATACAGGAAAAGGTTTAT TTGGCTCACAGTTCTGATGGCTGGGCATCAAGATTGGGCATCTGCACCTGGTAAGGGCCT GGGGCAGCTTCCACTCAATGGCTGAAGGCAGAAAGTGGCTGGAGTGTGCAGAGATGACA CAGATGAAGTGAGAGCGGGTAGGTGCCAGGCTCTTAAACAACCAGCTCTGGGGGACTAA GAGAACTCACTCACTGTCCCCACCTCGGGGACAATATAATAAATATATTAATATATCA GGATGATTTACATGCACTGCCCTGATATATTTAATAGCACAGGAATATACACAAGAGAGT GACAGATTTGAATGGTCCCAAATGCAGCTGCAATGCTAGCCACCTTTTATGGGAAAAC TGATTCTGACAGTTTTCCAGACTGTGCACACATTTAAAATTCCACACCCTTGCTTCAGCC AGCTTCTCCTGGAAGGCAAAGCCAGCCAGGTGAGTGTATGAAGGCCAACTGACCCA TCAGCCCAGAAGCCAGGCCCTCCAGTGCCAATGGTCGCAAGCTGAGCGCAAGTGCTTGG GGAGCGGGCCAGTTGGCATCCGAAACAGGGCCTGGTGGAGCAGCATGCGAGCAACTGGTA GTAGTATAAGGGAAAGAACAAGCTGAGCCTGTTCTCTACATTCATTATTCGCAAAAATAC ATAANAATCTATTTCTGCCTCCAGGCTCTTGGACTCTCAGGAAAGGCGGTAGCTGCCAG CCCTCGAGCATCTGATTTGATACCCTAGCGCCTCACTCATTTTATTCTCAGAAGACACGG CAGATGAGGCAGCGGAGTCTCACACCAAGGAATTACGCCATGCCCTGCATAGCGCTCG GGGGGGACTTGGTCACACCACTCTGTCTTTTGTGCACAAGGAATGGGCATTCCAAAAG TCGCCACCTTAGCATTCTCTATCACTAGCCCCAGGTGGAGAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032643
<b>Insert Size:</b>	2770 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>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_032643.3</a> , <a href="#">NP_116032.1</a>
<b>RefSeq Size:</b>	2771 bp
<b>RefSeq ORF:</b>	1497 bp
<b>Locus ID:</b>	3663
<b>UniProt ID:</b>	<a href="#">Q13568</a>
<b>Cytogenetics:</b>	7q32.1
<b>Domains:</b>	IRF

**Protein Families:** Transcription Factors

**Protein Pathways:** Toll-like receptor signaling pathway

**Gene Summary:** This gene encodes a member of the interferon regulatory factor (IRF) family, a group of transcription factors with diverse roles, including virus-mediated activation of interferon, and modulation of cell growth, differentiation, apoptosis, and immune system activity. Members of the IRF family are characterized by a conserved N-terminal DNA-binding domain containing tryptophan (W) repeats. Alternative promoter use and alternative splicing result in multiple transcript variants, and a 30-nt indel polymorphism (SNP rs60344245) can result in loss of a 10-aa segment. [provided by RefSeq, Dec 2016]  
Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice site, compared to variant 9. The encoded isoform (b) is shorter, compared to isoform d. Variants 2, 3, and 6 encode the same isoform.