

Product datasheet for **SC116274**

IRF6 (NM_006147) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRF6 (NM_006147) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRF6
Synonyms:	LPS; OFC6; PIT; PPS; PPS1; VWS; VWS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116274 sequence for NM_006147 edited (data generated by NextGen Sequencing)

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ATGGCCCTCCACCCCGCAGAGTCCGGCTAAAGCCCTGGCTGGTGGCCAGGTGGATAGT
GGCCTCTACCCTGGGCTCATCTGGCTACACAGGGACTCTAAACGCTTCCAGATTCCTGG
AAACATGCCACCCGGCATAGCCCTCAACAAGAAGAGGAAAATACCATTTTAAAGCCTGG
GCTGTAGAGACAGGGAAGTACCAGGAAGGGTGGATGACCCTGACCCAGCTAAATGGAAG
GCCCAGCTGCGTGTGCTCTCAATAAGAGCAGAGAATTCACCTGATGTATGATGGCACC
AAGGAGGTGCCCATGAACCCAGTGAAGATATATCAAGTGTGTGACATCCCTCAGCCCAG
GGCTCGATCATTAAACCCAGGATCCACAGGGTCTGCTCCCTGGGATGAGAAGGATAATGAT
GTGGATGAAGAAGATGAGGAAGATGAGCTGGATCAGTCGCAGCACCATGTTCCCATCCAG
GACACCTTCCCCTTCTGAAATCAATGGTTCTCCCATGGCGCCAGCCAGTGTGGCAAT
TGCAGTGTGGCAACTGCAGCCCGGAGGCAGTGTGGCCAAAACCTGAACCCCTGGAGATG
GAAGTACCCAGGCACCTATACAGCCCTTCTATAGCTCTCCAGAAGTGTGGATCAGCTCT
CTCCCAATGACTGACCTGGACATCAAGTTTCAGTACCGTGGGAAGGAGTACGGGCAGACC
ATGACCGTGAGCAACCCCTCAGGGCTGCCGACTCTTCTATGGGGACCTGGGTCCCATGCC
GACCAGGAGGAGCTCTTTGGTCCCGTCAGCCTGGAGCAGGTCAAATTCACAGTCCCTGAG
CATATTACCAATGAGAAGCAGAAGCTGTTCACTAGCAAGCTGCTGGACGTCATGGACAGA
GGACTGATCCTGGAGGTGAGCGGTGATGCCATTTATGCCATCAGGCTGTGCCAGTGAAG
GTGTACTGGTCTGGGCCATGTGCCCATCACTTGTGGTCCCAACCTGATTGAGAGACAA
AAGAAGTCAAGCTATTTTGTCTGGAACATTCCTTAGCGATCTCATTGCCACCAGAAA
GGACAGATAGAGAAGCAGCCACCGTTTGGAGATCTACTTATGCTTTGGGAAGAATGGCCA
GATGGAAACCATTTGAAAGGAACTCATCTTGGTTGAGTCCAGTCCAGTGTGGCTCGG
ATGATCTACGAGATGTTTTCTGGTATTTCACACGATCCTTTGATAGTGGCAGTGTCCGC
CTGCAGATCTCAACCCAGACATCAAGGATAACATCGTTGCTCAGCTGAAGCAGCTGTAC
CGCATCCTTCAAACCCAGGAGAGCTGGCAGCCATGCAGCCACCCAGCATGCAACTG
CCCCCTGCCCTGCCTCCCCAGTAA
    
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Clone variation with respect to NM_006147.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006147 unedited

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TTCCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGGTACGGTGGGAAGGTCTATATAAGCA
GAGCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGCCGCGAA
TTCCGGCACCAGGCGCACCTGGGCTGGGCAGGTAAGGGCTGGTGCGGGACGGGGAGAGGAA
CCTGCAGTCCCTACTTGGGTAGAGCCAGGCGCCCTTGGCTAAGACGTCGAGGAGCGTGG
TAGCGACGGGTGATCTTCGCTGCCGACTTGGTTCGGAGGGACGTCGCTTCTGGTGGACA
GATTGAGCAAAGAATCTTTGAGCGGTCAAGGGAAGACAAGCCGACTCTTCAGATCCCTG
TGGACACACTGCCTGCTTCCATATCATGGCCCTCCACCCCGCAGAGTCCGGCTAAAG
CCCTGGCTGGTGGCCAGGTGGATAGTGGCCTCTACCCTGGGCTCATCTGGCTACACAGG
GACTCTAAACGCTTCCAGATTCCCTGGAACATGCCACCCGCGATAGCCCTCAACAAGAA
GAGGAAAATACCATTTTTAAGGCCTGGGCTGTAGAGACAGGGAAGTACCAGGAAGGGGTG
GATGACCCTGACCAGCTAAATGGAATGCCAGCTGCGCTGTGCTCTCAATAAGAGCAGA
GAATTCACCTGATGTATGATGGACCAATGATGTGCCATGAACCCAGTGAAGATATAT
CAAGTGTGTGACATCCCTCAGCCCCAGGGCTCGATCATTAAACCCANGATCCACAGNTCT
GCTCCNTGGGATGAGAAAGGATATGATGTGGATGAAGAATNATGAGGAGATGAGCTGGAT
CAGTCGCAGCACCATGGTTCCATTCCAGACACCTNCCCTTNNCTGACAATCATGNNNTCT
CCATGGCCCGCAGCCANTGTGGCAATTGCAGTGTGGGCAACTGCAGCCCCGNAGCAT
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006147 unedited NNGGGGTTTTGACTTTGGACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTT TTCCTAAATTAATCAGCTTTAAATCTAGGCATATTTGGGAAAATCACAACTTCTAACA CTGTTAGAGAAAAGAGAGATTTAAAAGCTGGTTAAATCTAAACAATAAAAAATCCATAT GTACAATATTATAAAAAAGAGAAGGAAGAAGATGGCATTACAATTACTGGGGAGGCAGG GCAGGGGGCAGTTGCATGCTGGGGTGGGCTGCATGGGCTGCCAGCTCTCCTGGGTTTGA AGGATGCGGTACAGCTGCTTCAGCTGAGCAACGATGTTATCCTTGATGTCTGGGGTTGAG ATCTGCAGGCGGACACTGCCACTATCAAAGGATCGTGTGAAATCACCAGAAAACATCTCG TAGATCATCCGAGCCACTACTGGAATGACCTGAACCAAGATGAGTTTCCTTTCCAATGGT TTCCCATCTGGCCATTCTTCCCCAAAGCATAAGTAGATCTCAAACGGTGGCTGCTTCTCT ATCTGTCTTTCTGGTGGGCAATGAGATCGCTAAGGAATGTTTCCAGACAAAATAGCTTG ACCTTCTTTTGTCTCTCAATCAGGTTGGGAGCAACAAGTATGGGGCACATGGCCGACAG CAGTACACCTTGCCTGGCACAGCCTGATGGCATAAATGGCATGACCGCTGACCTCCAGG ATCAGTCTCTGTCCATGACGTCCAGCAGCTTGCTAGTGAACAGCTTCTGCTTCTCATTG GTAATATGCTCAGGACCTGGGAATTTGACCTGCTCCAGGCTGACGGGGACCAAGAGCTC TCCTGGTCAGGCATGGGACCCAGTCCNCATAGAAAGAGTCGCAGCCCTGGAGGGTGCTC ACGTNCATGGTCTGCCCGTACTCTTCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006147
Insert Size:	2100 bp
OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_006147.2 , NP_006138.1
RefSeq Size:	2171 bp

RefSeq ORF: 1404 bp

Locus ID: 3664

UniProt ID: [O14896](#)

Cytogenetics: 1q32.2

Domains: IRF

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: This gene encodes a member of the interferon regulatory transcription factor (IRF) family. Family members share a highly-conserved N-terminal helix-turn-helix DNA-binding domain and a less conserved C-terminal protein-binding domain. The encoded protein may be a transcriptional activator. Mutations in this gene can cause van der Woude syndrome and popliteal pterygium syndrome. Mutations in this gene are also associated with non-syndromic orofacial cleft type 6. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.