

Product datasheet for **RG201579**

IRF6 (NM_006147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRF6 (NM_006147) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRF6
Synonyms:	LPS; OFC6; PIT; PPS; PPS1; VWS; VWS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201579 representing NM_006147
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCTCCACCCCGCAGAGTCCGGCTAAAGCCCTGGCTGGTGGCCAGGTGGATAGTGGCCTCTACC
 CTGGGCTCATCTGGCTACACAGGACTCTAAACGCTTCCAGATTCCTGGAACATGCCACCCGGCATAG
 CCCTCAACAAGAAGAGGAAAATACCATTTTAAAGCCTGGCTGTAGAGACAGGGAAGTACCAGGAAGGG
 GTGGATGACCCTGACCCAGCTAAATGGAAGGCCAGCTGCGCTGTGCTCTCAATAAGAGCAGAGAATTCA
 ACCTGATGTATGATGGCACCAAGGAGGTGCCATGAACCCAGTGAAGATATATCAAGTGTGTGACATCCC
 TCAGCCCCAGGGCTCGATCATTAAACCCAGGATCCACAGGGTCTGCTCCCTGGGATGAGAAGGATAATGAT
 GTGGATGAAGAAGATGAGGAAGATGAGCTGGATCAGTCGCAGCACCATGTTCCCATCCAGGACACCTTCC
 CCTTCTGAACATCAATGGTTCTCCCATGGCGCCAGCCAGTGTGGCAATTGCAGTGTGGCAACTGCAG
 CCCGGAGGCAGTGTGGCCAAAACCTGAACCCCTGGAGATGGAAGTACCCAGGCACCTATACAGCCCTTC
 TATAGCTCTCCAGAACTGTGGATCAGCTCTCTCCAATGACTGACCTGGACATCAAGTTTACGTACCGTG
 GGAAGGAGTACGGGCAGACCATGACCGTGAACCCCTCAGGGCTGCCGACTCTTCTATGGGGACCTGGG
 TCCCATGCCTGACCAGGAGGAGCTTTTGGTCCCGTCAGCCTGGAGCAGGTCAAATTCACAGGTCCTGAG
 CATATTACCAATGAGAAGCAGAAGCTGTTCACTAGCAAGCTGCTGGACGTCATGGACAGAGGACTGATCC
 TGGAGGTGAGCGGTATGCCATTTATGCCATCAGGCTGTGCCAGTGAAGGTGTACTGGTCTGGGCCATG
 TGCCCCATCACTTGTGTCCCAACCTGATTGAGAGACAAAAGAAGGTCAAGCTATTTGTCTGGAACA
 TTCCTTAGCGATCTATTGCCACCAGAAAGGACAGATAGAGAAGCAGCCACCGTTTGAGATCTACTTAT
 GCTTTGGGAAGAATGGCCAGATGGGAAACCTGGAAAGGAACTCATCTTGGTTCAGGTCAATCCAGT
 AGTGGCTCGGATGATCTACGAGATGTTTTCTGGTGATTTACACGATCCTTTGATAGTGGCAGTGTCCGC
 CTGCAGATCTCAACCCAGACATCAAGGATAACATCGTTGCTCAGCTGAAGCAGCTGTACCGCATCCTTC
 AAACCCAGGAGAGCTGGCAGCCCATGCAGCCACCCCCAGCATGCAACTGCCCTGCCCTGCCCTCCCA
 G

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201579 representing NM_006147
 Red=Cloning site Green=Tags(s)

MALHPRRVRLKPWLVAQVDSGLYPGLIWLHRDSKRFQIPWKHATRHSPQQEEENTIFKAWAVETGKYQEG
 VDDPDPKWKALRCALNKSREFNLMYDGTKEVPMNPVKIYQVCDIPQPQGSIIINPGSTGSAPWDEKDND
 VDEEDEEDELQSQHHVPIQDTFPLNINGSMPAPASVGNCSVGNCSPEAVWPKTEPLEMEVPQAPIQPF
 YSPELWISSLPMTDLDIKFQYRGKEYGQTMVSNPQGCRIFYGDLGPMPDQEELFGPVSLEQVKFPGPE
 HITNEKQKLFQSKLLDVMDRGLILEVSGHAIYAIRLCQCKVYWSGPCAPSLVAPNLIERQKVKLFCLET
 FLSDLIAHQKQIEKQPPFEIYLFCGEEWPDGKPLERKLLVQVIPVARMYEMFSGDFTRSFDSGSVR
 LQISTPDIKDNIVAQLKQLYRILQTESWQPMQPTPSMQLPPALPPQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006147

ORF Size: 1401 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

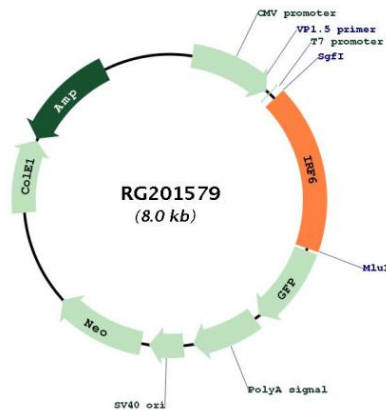
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_006147.4](#)
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]

Product images:



Circular map for RG201579