

Product datasheet for **SC309370**

EIF4G1 (NM_198244) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: EIF4G1 (NM_198244) Human Untagged Clone
Tag: Tag Free
Symbol: EIF4G1
Synonyms: EIF-4G1; EIF4F; EIF4G; EIF4G1; P220; PARK18
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_198244, the custom clone sequence may differ by one or more nucleotides

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ATGATGATCCCTTCCAGATCTCTACCCAGCCTCCCAGGGGGCCTACTACATCCCTGGA
CAGGGGGCTTCCACATACGTTGTCCCGACACAGCAGTACCCTGTGCAGCCAGGAGCCCA
GGCTTCTATCCAGGTGCAAGCCCTACAGAATTTGGGACCTACGCTGGCGCCTACTATCCA
GCCCAAGGGGTGCAGCAGTTTCCCACTGGCGTGGCCCCGCCAGTTTTGATGAACCAG
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GGAGGAAAGGATATCACAGAGGAGATCATGTCTGGGCCCCGCACTGCCTCCACACCCACC
CCTCCCCAGACGGGAGGGGTCTGGAGCCTCAAGCTAATGGGGAGACGCCCCAGGTTGCT
GTCAATTGTCGGCCAGATGACCGGTACAGGGAGCAATCATTGCTGACCGCCAGGGCTG
CCTGGCCCAGAGCATAGCCCTTCCAGAATCCCAGCCTTCGTCGCCTTCTCCGACCCATCA
CCATCCCCAGTCTTGAACCGGGGTCTGAGCCTAATCTCGCAGTCTCTTATTCTGGG
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CAGAAGCCAGAGGGATTGCCACATATCAGTGACGTGGTGTGACAAAGGCCAATAAAACA
CCACTGCGGCCACTGGATCCCCTAGACTACAAGGCATAAATTGTGGCCAGACTTCACT

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CCATCCTTTGCCAACCTTGGCCGACAACCCCTTAGCACCCGTGGGCCCCCAAGGGGTGGG
 CCAGGTGGGGAGCTGCCCGTGGGCCGGCTGGCCTGGGACCCCGCGCTCTCAGCAGGGA
 CCCCAGAAAAGAACACGCAAGATCATTGCCACAGTGTTAATGACCGAAGATATAAACTG
 AACAAAGCAGAGAAAAGCCTGAAACCCAGCAGCAAGCGGACGGCGGCTGATAAGGATCGA
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 GGTCTAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGCTTAGCTGGAAGGAATTTCTA
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 GAGGAGTCGGAAGCCCTGGCCAGAGGGCACTCCCTCCGAGGAGCTGAACAGGCAGCTG
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 TATTCTGCAATTTTGGAGACTCCCCTCCGAGTGGACGTTGACAGTGTGAAAGCGCGA
 GCGAAGCTGCTGCAGAAATACCTGTGTGACGAGCAGAAGGAGCTACAGGCGCTCTACGCC
 CTCCAGGCCCTTGTAGTGACCTTAGAACAGCCTCCCAACCTGCTGCGGATGTTCTTTGAC
 GCACTGTATGACGAGGACGTGGTGAAGGAGGATGCCTTCTACAGTTGGGAGAGTAGCAAG
 GACCCCGCTGAGCAGCAGGGCAAGGGTGTGGCCCTTAAATCTGTCACAGCCTTCTTCAAG
 TGCTCCGTGAAGCAGAGGAGGAGTCTGACCACAACCTGA

Restriction Sites:

Please inquire

ACCN:

NM_198244

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_198244.1</u> , <u>NP_937887.1</u>
RefSeq Size:	5225 bp
RefSeq ORF:	4539 bp
Locus ID:	1981
Cytogenetics:	3q27.1
Protein Pathways:	Viral myocarditis
Gene Summary:	<p>The protein encoded by this gene is a component of the multi-subunit protein complex EIF4F. This complex facilitates the recruitment of mRNA to the ribosome, which is a rate-limiting step during the initiation phase of protein synthesis. The recognition of the mRNA cap and the ATP-dependent unwinding of 5'-terminal secondary structure is catalyzed by factors in this complex. The subunit encoded by this gene is a large scaffolding protein that contains binding sites for other members of the EIF4F complex. A domain at its N-terminus can also interact with the poly(A)-binding protein, which may mediate the circularization of mRNA during translation. Alternative splicing results in multiple transcript variants, some of which are derived from alternative promoter usage. [provided by RefSeq, Aug 2010]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, uses a downstream start codon, and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (2) is shorter at the N-terminus and lacks an internal residue, compared to isoform 1.</p>