

## Product datasheet for **SC321083**

### EIF4A1 (NM\_001416) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EIF4A1 (NM\_001416) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** EIF4A1  
**Synonyms:** DDX2A; EIF-4A; eIF-4A-I; EIF4A; eIF4A-I  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001416.2  
 AGTTTCTAAGGATCATGTCTGCGAGCCAGGATCCCGATCCAGAGACAATGGCCCCGATG  
 GGATGGAGCCCCAAGCGTCATCGAGAGTAACCTGGAATGAGATTGTTGACAGCTTTGATG  
 ACATGAACCTCTCGGAGTCCCTTCTCCGTGGCATCTACGCCTATGGTTTTGAGAAGCCCT  
 CTGCCATCCAGCAGCGAGCCATTCTACCTTGATCAAGGGTTATGATGTGATTGCTCAAG  
 CCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCAATTCTGCAGCAGATTGAAT  
 TAGATCTAAAAGCCACCCAGGCCCTTGGTCTAGCACCCACTCGAGAATTGGCTCAGCAGA  
 TACAGAAGGTGGTCATGGCACTAGGAGACTACATGGGCGCCTCCTGTCACGCCTGTATCG  
 GGGGCACCAACGTGCGTGTGAGGTGCAGAACTGCAGATGGAAGCTCCCCACATCATCG  
 TGGGTACCCTGGCCGTGTTTTGATATGCTTAACCGGAGATACCTGTCCCCAAATACA  
 TCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGA  
 TCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGAGCCACAA  
 TGCCCTTCTGATGTGCTTGAGGTGACCAAGAAGTTCATGAGGGACCCATTTCGATTCTTG  
 TCAAGAAGGAAGAGTTGACCCTGGAGGGTATCCGCCAGTTCTACATCAACGTGGAACGAG  
 AGGAGTGGAAAGCTGGACACACTATGTGACTTGTATGAAACCTGACCATCACCCAGGCAG  
 TCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAG  
 ATTTCACTGTATCCGCCATGCATGGAGATATGGACAAAAGGAACGAGACGTGATTATGA  
 GGGAGTTTCGTTCTGGCTTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCA  
 TTGATGTGCAGCAGGTTTCTTTAGTCATCAACTATGACCTCCCACCAACAGGAAAAACT  
 ATATCCACAGAATCGGTGAGGTGGACGGTTTGGCCGTAAAGGTGTGGCTATTAACATGG  
 TGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCATTG  
 AGGAAATGCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGCTGCCACCCAGCCCCA  
 GCCAGGGCTCAATCTCTGGGGGCTGAGGAGCAGCAGGAGGGGGAGGGAAGGGAGCCAAG  
 GGATGGACATCTGTCAATTTTTTTTCTTTGAATAAATGTCACCTTTTTGAGGCAAAAAGAG  
 GAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_001416
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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.
<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_001416.2</a> , <a href="#">NP_001407.1</a>
<b>RefSeq Size:</b>	1844 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	1973
<b>UniProt ID:</b>	<a href="#">P60842</a>
<b>Cytogenetics:</b>	17p13.1
<b>Domains:</b>	DEAD, helicase_C
<b>Gene Summary:</b>	<p>ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>