

## Product datasheet for **SC329761**

### EIF4A1 (NM\_001204510) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EIF4A1 (NM\_001204510) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** EIF4A1  
**Synonyms:** DDX2A; EIF-4A; eIF-4A-I; EIF4A; eIF4A-I  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329761 representing NM\_001204510.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGTCTGCGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATC
GAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGGC
ATCTACGCGTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGATCAAGGGT
TATGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCGATTCTGCAG
CAGATTGAATTAGATCTAAAAGCCACCCAGGCCTTGGTCTAGCACCCACTCGAGAATTGGCTCAGCAG
ATACAGAAGTGGTCATGGCACTAGGAGACTACATGGGCGCCTCTGTCCAGCCTGTATCGGGGGCACC
AACGTGCGTGCTGAGGTGCAGAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCTGGCCGT
GTGTTTGTATGCTTAACCGGAGATACCTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCT
GACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACATATTCCAAAAGCTCAACAGCAACACC
CAGGTAGTTTTGCTGTCAGCCACAATGCCTTCTGATGTGCTTGAGGTGACCAAGAAGTTCATGAGGGAC
CCCATTTCGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGGTATCCGCCAGTTCTACATCAACGTG
GAACGAGAGGAGTGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCAGGCAGTC
ATCTTCATCAACACCCGGAGGAAGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGTA
TCCGCCATGCATGGAGATATGGACAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTCTGGCTCT
AGCAGAGTTTTGATTACCACTGACCTGCTGGGAAAACATATCCACAGAATCGGTTCGAGGTGGACGGTT
TGGCCGTAA
```

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001204510  
**Insert Size:** 1044 bp  
**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).



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<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>	<u>NM_001204510.1</u>
<b>RefSeq Size:</b>	1832 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	1973
<b>UniProt ID:</b>	<u>P60842</u>
<b>Cytogenetics:</b>	17p13.1
<b>MW:</b>	39.5 kDa
<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 (2) uses an alternate splice site that causes a frameshift in the 3' coding region, compared to variant 1, resulting in an isoform (2) with a distinct and shorter C-terminus, compared to isoform 1.</p>