

Product datasheet for **RC232541**

EIF4A1 (NM_001204510) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EIF4A1 (NM_001204510) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EIF4A1
Synonyms: DDX2A; EIF-4A; eIF-4A-I; EIF4A; eIF4A-I
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232541 representing NM_001204510
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGTCTCGGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATCG
AGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGGCAT
CTACGCGTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTGTATCAAGGGTTAT
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TTGCTGTCAGCCACAATGCCTTCTGATGTGCTTGAGGTGACCAAGAAGTTCATGAGGGACCCCATTCGGA
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GTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCAGGCAGTCATCTTCATCAAC
ACCCGGAGGAAGGTGGACTGGCTCACCCAGAAGATGCATGCTCGAGATTTCACTGTATCCGCCATGCATG
GAGATATGGACAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTCTGGCTTAGCAGAGTTTTGAT
TACCACTGACCTGCTGGGAAAATATATCCACAGAATCGGTCGAGGTGGACGGTTTGCCG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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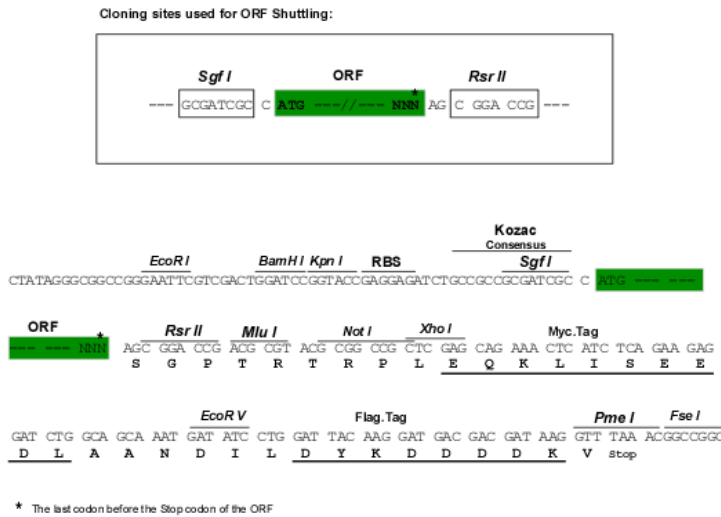
Protein Sequence: >RC232541 representing NM_001204510
 Red=Cloning site Green=Tags(s)

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 DVIAQAQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMLGDYMGASCHACIGGTNV
 RAEVQKLQMEAPHIIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLSNTQVV
 LLSATMPSDVLEVTKKFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDLTLCDLYETLTITQAVIFIN
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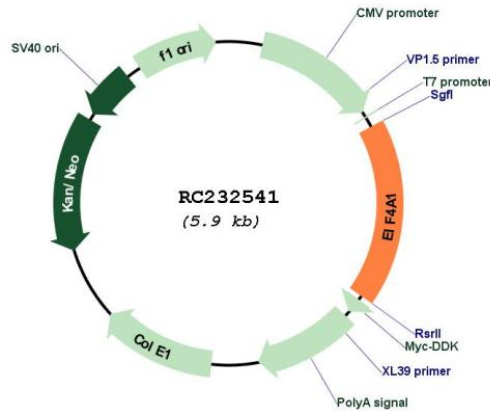
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001204510

ORF Size: 1041 bp

OTI Disclaimer:	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:	<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_001204510.2
RefSeq Size:	1832 bp
RefSeq ORF:	1044 bp
Locus ID:	1973
UniProt ID:	P60842
Cytogenetics:	17p13.1
MW:	40 kDa
Gene Summary:	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]