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Product datasheet for SC319737

EIF4A2 (NM_001967) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4A2 (NM_001967) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4A2
Synonyms:	BM-010; DDX2B; eIF-4A-II; EIF4A; eIF4A-II; EIF4F
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_001967.3
GGGGCTTTTCAGTCGGGCGCTGAGTGGTTTTTCGGATCATGTCTGGTGGCTCCGCGGATT
ATAACAGAGAACATGGCGGCCCAGAGGGAATGGACCCCGATGGTGTCATCGAGAGCAGCT
GGAATGAGATTGTTGATAACTTTGATGATATGAATTTAAAGGAGTCTCTCCTTCGTGGCA
TCTATGCTTACGGTTTTGAGAAGCCTTCCGCTATTCAGCAGAGAGCTATTATTCCCTGTA
TTAAAGGGTATGATGTGATTGCTCAAGCTCAGTCAGGTACTGGCAAGACAGCCACATTTG
CTATTTCCATCCTGCAACAGTTGGAGATTGAGTTCAAGGAGACCCAAGCACTAGTATTGG
CCCCCACCAGAGAACTGGCTCAACAGATCCAAAAGGTAATTCTGGCACTTGGAGACTATA
TGGGAGCCACTTGTCATGCCTGCATTGGTGGAACAAATGTTCGAAATGAAATGCAAAAAC
TGCAGGCTGAAGCACCACATATTGTTGTTGGTACACCCGGGAGAGTGTTTGATATGTTAA
ACAGAAGATACCTTTCTCCAAAATGGATCAAAATGTTTGTTTTGGATGAAGCAGATGAAA
TGTTGAGCCGTGGTTTTAAGGATCAAATCTATGAGATTTTCCAAAAACTAAACACAAGTA
TTCAGGTTGTGTTGCTTTCTGCCACAATGCCAACTGATGTGTTGGAAGTGACCAAAAAAT
TCATGAGAGATCCAATTCGAATTCTGGTGAAAAAGGAAGAATTGACCCTTGAAGGAATCA
AACAGTTTTATATTAATGTTGAGAGAGAGGAATGGAAGTTGGATACACTTTGTGACTTGT
ACGAGACACTGACCATTACACAGGCTGTTATTTTTCTCAATACGAGGCGCAAGGTGGACT
GGCTGACTGAGAAGATGCATGCCAGAGACTTCACAGTTTCTGCTCTGCATGGTGACATGG
ACCAGAAGGAGAGAGATGTTATCATGAGGGAATTCCGGTCAGGGTCAAGTCGTGTTCTGA
TCACTACTGACTTGTTGGCTCGCGGGATTGATGTGCAACAAGTGTCTTTGGTTATAAATT
ATGATCTACCTACCAATCGTGAAAACTATATTCACAGAATTGGCAGAGGGGGTCGATTTG
GGAGGAAAGGTGTGGCTATAAACTTTGTTACTGAAGAAGACAAGAGGATTCTTCGTGACA
TTGAGACTTTCTACAATACTACAGTGGAGGAGATGCCCATGAATGTGGCTGACCTTATTT
AATTCCTGGGATGAGAGTTTTGGATGCAGTGCTCGCTGTTGCTGAATAGGCGATCACAAC
GTGCATTGTGCTTCTTTCTTTGGGAATATTTGAATCTTGTCTCAATGCTCATAACGGATC
AGAAATACAGATTTTGATAGCAAAGCGACGTTAGTCGTGAGCTCTTGTGAGGAAAGTCAT
TGGCTTTATCCTCTTTAGAGTTAGACTGTTGGGGTGGGTATAAAAGATGGGGTCTGTAAA
ATCTTTCTTTCTTAGAAATTTATTTCCTAGTTCTGTAGAAATGGTTGTATTAGATGTTCT
CTATCATTTAATAATATACTTGTGGACTAAAAGATATAAGTGCTGTATAAAATCAGCCAA
TTATGTTAAACTAGCATATCTGCCTTTATTGTGTTTGTCATTAGCCTGAGTAGAAAGGCC
TTTAAAATTTTTTTAGAAAGCATTTGAATGCATTTTGTTTGGTATTGTATTTATTCAATA
AAGTATTTAATTAGTGCTAAGTGTGAACTGGACCCTGTTGCTAAGCCCCAGCAAGCAATC
CTAGGTAGGGTTTAATCCCCAGTAAAATTGCCATATTGCACATGTCTTAATGAAGTTTGA
ATGTTAAATAAATTGTATATTCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_001967

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:	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_001967.3, NP_001958.2
RefSeq Size:	1905 bp
RefSeq ORF:	1224 bp
Locus ID:	1974
UniProt ID:	Q14240
Cytogenetics:	3q27.3
Domains:	DEAD, helicase_C
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]