

Product datasheet for **SC114843**

EIF4A3 (NM_014740) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4A3 (NM_014740) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4A3
Synonyms:	DDX48; eIF-4A-III; eIF4A-III; eIF4AIII; Fal1; MUK34; NMP265; NUK34; RCPS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114843 sequence for NM_014740 edited (data generated by NextGen Sequencing)

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ATGGCGACCACGGCCACGATGGCGACCTCGGGCTCGGCGCGAAAGCGGCTGCTCAAAGAG
GAAGACATGACTAAAGTGGAAATTCGAGACCAGCGAGGAGGTGGATGTGACCCCCACGTTCT
GACACCATGGGCCTGCGGGAGGACCTGCTGCGGGGCATCTACGCTTACGGTTTTGAAAAA
CCATCAGCAATCCAGCAACGAGCAATCAAGCAGATCATCAAAGGGAGAGATGTCATCGCA
CAGTCTCAGTCCGGCACAGGAAAAACAGCCACCTTCAGTATCTCAGTCTCCAGTGTGTTG
GATATTCAGGTTCTGAAACTCAAGCTTTGATCTTGGCTCCCACAAGAGAGTTGGCTGTG
CAGATCCAGAAGGGGCTGCTTGTCTCGGTGACTACATGAATGTCCAGTGCCATGCCTGC
ATTGGAGGCACCAATGTTGGCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGTC
GCGGGCACTCCAGGGCGTGTGTTTATGATGATTTCGTCGAGAAGCCTAAGGACACGTGCT
ATCAAAATGTTGGTTTTGGATGAAGCTGATGAAATGTTGAATAAAGGTTTCAAAGAGCAG
ATTTACGATGTATACAGGTACCTGCCTCCAGCCACACAGGTGGTTCTCATCAGTGCCACG
CTGCCACACGAGATTCTGGAGATGACCAACAAGTTCATGACCGACCCAATCCGCATCTTG
GTGAAACGTGATGAATTGACTCTGGAAGGCATCAAGCAATTTTTCTGTCAGTGGAGAGG
GAAGAGTGAAATTTGACACTCTGTGTGACCTCTACGACACACTGACCATCACTCAGGCG
GTCATCTTCTGCAACACCAAAAAGAAAGGTGGACTGGCTGACGGAGAAAATGAGGGAAGCC
AACTTCACTGTATCCTCAATGCATGGAGACATGCCCCAGAAAGAGCGGGAGTCCATCATG
AAGGAGTTCGGTTCGGGCGCCAGCCGAGTGCTTATTTCTACAGATGTCTGGGCCAGGGGG
TTGGATGTCCTCAGGTGTCCTCATCTAATAACTATGATCTCCCTAATAACAGAGAATTG
TACATACAGAAATTGGGAGATCAGGTCGATACGGCCGGAAGGGTGTGGCCATTAACCTT
GTAAAGAATGACGACATCCGCATCTCAGAGATATCGAGCAGTACTATTCCACTCAGATT
GATGAGATGCCGATGAACGTTGCTGATCTTATCTGA

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Clone variation with respect to NM_014740.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014740 unedited</p> <pre>GTTACCATTTGTATACGACTCACTATAGGCGGCCCGCAATTCGCACGAGGCACAGCGAG GTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCAGCGAGGT CGGCAGCGGCAGCGGCTGTGCTCTTCCGCGGACTCTGAATCATGGCGACCACGGCCACGA TGGCGACTCGGGCTCGGCGCGAAAGCGGCTGCTCAAAGAGGAAGACATGACTAAAGTGG GATTCGAGACCAGCGAGGAGGTGGATGTGACCCCCACGTTGCACACCATGGGCCTGCGGG AGGAACTGCTGCGGGGCATCTACGCTTACGGTTTTGAAAAACCATCAGCAATCCAGCAAC GAGCAATCAAGCAGATCATCAAAGGGAGAGATGTCATCGCACAGTCTCAGTCCGGCACAG GAAAAACAGCCACCTTCAGTATCTCAGTCTCCAGTGTTGGATATTCAGGTTTCGTGAAA CTCAAGCTTTGATCTTGCTCCCACAAGAGAGTTGGCTGTGCAGATCCAGAAGGGGCTGC TTGCTCTCGGTGACTACATGAATGTCCAGTGCCATGCCTGCATTGGAGGCACCAATGTTG GCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGTGCGGGGCACTCCAGGGCGTG TTTTTGATATGATTCGTGCGAGAAGCCTAAGGACACGTGCTATCAAATGTTGGTTTTGG ATGAAGCTGATGAAACGCTGAATAAAGGTTTTCAAAGAGCAGATTTACGATGTATACAGT ACCTGCCTTCAGCCACACAGGTGGTTCTCATCAGTGGCAGCTGGCACACCAGATTCTGG AGATGACCAACAAGTTTCATGACCGACCCCATCCGCATTTTGGTAAAACGGGATGAATTG ACCTCTGGAAGTCTCCAGCCAATTTTTTCG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014740 unedited</p> <pre>GACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGAAAAGTTTTAAA TTTTTAATGAAAAAGACTTAGAACAAATGTATTATTTACATGTAATAAGAAAAGAGAGCA GAATCCCATATCCTCTTCAAAGGAAGGGAGACGGCAGGCCATTTATGAGAAGAAAGTCC ATATAAACCCCATTAAGTAGAATCTGGATCTAAATACTTCAAACAGGAGTACACAGCAG GTGAACAGTCTCCCTCATCCACTGATCTGCTGCTTACAGATAAGATCAGCAACGTTTCATC GGCATCTCATCAATCTGAGTGGAATAGTACTGCTCGATATCTCTGAGGATGCGGATGTGC TCATTCTTTACAAAGTTAATGGCCACACCCTTCCGGCCGTATCGACCTGATCTCCCAATT CTGTGTATGTACAATTCTCTGTTATTAGGGAGATCATAGTTAATGATGAGGGACACCTGA GGGACATCCAACCCCTGGCCCAGACATCTGTAGAAAATAAGCACTCGGCTGGCGCCCGAC CGGAACCTTTCATGATGGACTCCCGCTCTTTCTGGGCGATGTCTCCATGCATTGAGGAT ACAGTGAAGTTGGGCTTCCCTCATTTTCTCCGTCAGCCAGTCCACCTTTCTTTTGGTGTT GCANAAGATGACCGCCTGAGTGATGGGCAGTGTGTCGTACAGGGCACACAGAGTGTCAAA TTTTCACCTCTTCTTTTCACTGCCACGAAAAATTGCTTGATGCCTCCAGAGTCATTCAT CACGTTTCACCCAGAGCCGGATTGGGTGCGCATGACCTTGTTGGTATCTCCAGAATTCGG GGGGACCGTGCCCTGAGAAAACCCTGGGGGGTGGAGCAGGCCTGATACATGAAAACGGT TTTGAACCTTTTCAATTTATCACT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014740
Insert Size:	1740 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).
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_014740.2, NP_055555.1</u>
RefSeq Size:	1702 bp
RefSeq ORF:	1236 bp
Locus ID:	9775
UniProt ID:	<u>P38919</u>
Cytogenetics:	17q25.3
Domains:	DEAD, helicase_C
Protein Families:	Druggable Genome
Protein Pathways:	Spliceosome
Gene Summary:	<p>This gene encodes a member of the DEAD box protein family. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a nuclear matrix protein. Its amino acid sequence is highly similar to the amino acid sequences of the translation initiation factors eIF4AI and eIF4AII, two other members of the DEAD box protein family. [provided by RefSeq, Jul 2008]</p>