

Product datasheet for SC321530

EIF4EL3 (EIF4E2) (NM_004846) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4EL3 (EIF4E2) (NM_004846) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4EL3
Synonyms:	4E-LP; 4EHP; EIF4EL3; h4EHP; IF4e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_004846.2</p> <pre> GGGACCCGGTGGAGCGGAAGTCACTCCCTGAGGCAGTGGCGACAGCGCGCGAGAGGAT GAACAACAAGTTCGACGCTTTGAAAGATGATGACAGTGGGGACCATGATCAGAATGAAGA AAACAGCACACAGAAAGATGGTGAGAAGGAAAAACGGAACGAGACAAGAATCAGAGCAG TAGCAAGAGAAAAGGCTGTTGTCCCTGGACCGGCAGAGCATCCCCTGCAGTACAACTACAC TTTTTGGTACTCCAGGAGAACCCCGGCGTCCCACGAGCTCACAGAGCTATGAACAGAA TATCAAACAGATTGGCACCTTTGCCTCTGTGGAGCAGTTCTGGAGGTTTTATAGCCACAT GGTACGTCCTGGGACCTGACAGGCCACAGTGACTTCCATCTCTTCAAAGAAGGAATTAA ACCCATGTGGGAGGATGATGCAAATAAAATGGTGGCAAGTGGATTATTCGGCTGCGGAA GGGCTTGGCCTCCCGTTGCTGGGAGAATCTCATTTTGGCCATGCTGGGGAAACAGTTCAT GGTTGGGAGGAGATCTGTGGGGCTGTGGTGTCTGTCCGCTTTCAGGAAGACATTATTTTC AATATGGAATAAGACTGCCAGTGACCAAGCAACCACAGCCGAATCCGGGACACACTTCG GCGAGTGCTTAACCTACCTCCCAACACCATTATGGAATACAAAACCTCACACCGACAGCAT CAAAATGCCAGGCAGGCTGGGCCCCCAAAGGCTCCTTTTTCAAACCTCTGGAAGCCGCG GTTGAATGTGCCATGACCCTCTCCCTCTCTGGATGGCACCATCATTGAAGCTGGCGTCAT CGGAGTCTCTTGTCTGTTGGCGTGCTACCTGGAAGATCCTTCTGTCCTGGACAAGAGGA ATTGGAAGAGCATTTTATGTTTTAAGAACAGGCTGACACGCAGCAGCTACAACAACAGCT GAGATCACTTAATAAATGGTGCTAAACTAAAAAAAAAAAAAAAAAAAAA </pre>

Restriction Sites: Please inquire

ACCN: NM_004846

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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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:	<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_004846.2, NP_004837.1</u>
RefSeq Size:	1014 bp
RefSeq ORF:	738 bp
Locus ID:	9470
UniProt ID:	<u>O60573</u>
Cytogenetics:	2q37.1
Domains:	IF4E
Protein Families:	Transcription Factors
Protein Pathways:	Insulin signaling pathway, mTOR signaling pathway
Gene Summary:	<p>Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation (PubMed:9582349, PubMed:17368478, PubMed:25624349). Acts as a repressor of translation initiation (PubMed:22751931). In contrast to EIF4E, it is unable to bind eIF4G (EIF4G1, EIF4G2 or EIF4G3), suggesting that it acts by competing with EIF4E and block assembly of eIF4F at the cap (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (A).</p>