

Product datasheet for **SC334314**

EIF4EL3 (EIF4E2) (NM_001276337) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4EL3 (EIF4E2) (NM_001276337) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4E2
Synonyms:	4E-LP; 4EHP; EIF4EL3; h4EHP; IF4e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001276337, the custom clone sequence may differ by one or more nucleotides

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ATGAACAACAAGTTCGACGCTTTGAAAGATGATGACAGTGGGGACCATGATCAGAATGAAGAAAACAGCA  
CACAGAAAGATGGTGAGAAGGAAAAACGGAACGAGACAAGAATCAGAGCAGTAGCAAGAGAAAGGTGGA  
GCAGTTCTGGAGGTTTTATAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTCCATCTC  
TTCAAAGAAGGAATTAACCCATGTGGGAGGATGATGCAAATAAAAAATGGTGGCAAGTGGATTATTCGGC  
TGCGGAAGGGCTTGGCCTCCCGTTGCTGGGAGAATCTCATTTGGCCATGCTGGGGGAACAGTTCATGGT  
TGGGGAGGAGATCTGTGGGGCTGTGGTGTCTGTCCGCTTTCAGGAAGACATTATTTCAATATGGAATAAG  
ACTGCCAGTGACCAAGCAACCACAGCCGAATCCGGGACACACTCGGGCAGTGCTTAACCTACCTCCCA  
ACACCATTATGGAATACAAAACACACCGACAGCATCAAGGACAATTCAGCTTTCGAAATACAAAAAT  
CACATTGTGA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001276337
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).



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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_001276337.1](#), [NP_001263266.1](#)

RefSeq Size: 3416 bp

RefSeq ORF: 570 bp

Locus ID: 9470

Cytogenetics: 2q37.1

Protein Families: Transcription Factors

Protein Pathways: Insulin signaling pathway, mTOR signaling pathway

Gene Summary: 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]
Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region, and uses an alternate 3' terminal exon and thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (D) has a distinct C-terminus and is shorter than isoform A.