

Product datasheet for SC311136

EFTUD1 (EFL1) (NM_001040610) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFTUD1 (EFL1) (NM_001040610) Human Untagged Clone
Tag:	Tag Free
Symbol:	EFTUD1
Synonyms:	EFTUD1; FAM42A; HsT19294; RIA1; SDS2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001040610, the custom clone sequence may differ by one or more nucleotides

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ATGGTGTCTCAACAGTTTGGATAAGATGATTCAACTCCAGAAAAACACTGCCAACATCAGG
AATATTTGTGTTTTGGCTCATGTTGACCATGGTAATGAGGAGTACCTGATCAATCTGATA
GACTCTCCAGGACACGTGGACTTTTCTCAGAAGTATCAACCGCTGTTTCGCATTTGTGAT
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CGACAAGCTTGGCTTGAAAACATCCGTCGGTTTTAGTGATTAATAAGATTGATCGCTTG
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CAGATTAATGCGCTCACAGGGACTCTTTTACTTCTAAAGTCTAGAAGAAAGAGCAGAG
AGGGAGACTGAATCCCAAGTGAATCCAAATTCTGAACAAGGAGAGCAAGTATATGACTGG
AGCACTGGCTTGAGGACACAGATGATTCTCACCTTTACTTCTCTCCAGAACAGGGAAAT
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GCACGACATTAGACCCCTAAAGTTCAGATCAACGCCATTTGCAGTCAGTGGCTACCCATA
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AAGCTTGACGACACAGGGACAGGCACCCTTGAGGCCACCAAGATGGGAGTGCCATT
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GTCCCCCAGATGGCATACTGTGCTCTGGAACCTGTATCTTCTGATGGGAAGGGAAGT
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TTCGAAGCCACTCCTATTGTGAGAGTTGCTGTTGAACCAAAACATCCAAGTGAATGCCT
  
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CAGCTCGTAAAAGGAATGAACTGTTAAACCAGGCTGATCCCTGTGTCCAGATTTTAATT
 CAGGAAACGGGAGAGCACGTTTTAGTCACAGCAGGAGAAGTCCACCTTCAGCGATGCCTG
 GATGACTTAAAAGAAAGTTTGCAAAGATTCATATCAGTGTATCTGAACCTATTATTCCA
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 CAAGAAGAAATGAAAGAAGGGACAGACATGTTTCATCATCAAGGCTGTGCTGCCTGTTGCT
 GAAAGCTTTGGTTTTGCTGATGAAATCAGGAAGAGGACAAGTGGCCTGGCCAGCCACAA
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 GAGGAATACTTGCACTTTGGGGAGAAGGCTGACTCTGAGAACCAAGCCCGGAAGTACATG
 AACGCAGTACGAAAGCGGAAGGGCTTTATGTGGAAGAAAAGATTGTGGAGCATGCAGAA
 AAGCAGAGGACACTCAGCAAAAATAAGTAG

Restriction Sites:	Please inquire
ACCN:	NM_001040610
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:	<u>NM_001040610.1, NP_001035700.1</u>
RefSeq Size:	3464 bp

RefSeq ORF: 3210 bp

Locus ID: 79631

UniProt ID: [Q7Z2Z2](#)

Cytogenetics: 15q25.2

Gene Summary: Involved in the biogenesis of the 60S ribosomal subunit and translational activation of ribosomes. Together with SBDS, triggers the GTP-dependent release of EIF6 from 60S pre-ribosomes in the cytoplasm, thereby activating ribosomes for translation competence by allowing 80S ribosome assembly and facilitating EIF6 recycling to the nucleus, where it is required for 60S rRNA processing and nuclear export. Has low intrinsic GTPase activity. GTPase activity is increased by contact with 60S ribosome subunits.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks two in-frame exons in the 5' coding region, compared to variant 1, which results in a shorter protein (isoform 2), compared to isoform 1.