

Product datasheet for SC117496

EFTUD2 (NM_004247) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFTUD2 (NM_004247) Human Untagged Clone
Tag:	Tag Free
Symbol:	EFTUD2
Synonyms:	MFDGA; MFDM; SNRNP116; Snrp116; Snu114; U5-116KD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117496 sequence for NM_004247 edited (data generated by NextGen Sequencing)

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ATGGATACCGACTTATATGATGAGTTTGGGAATTATATTGGACCAGAGCTTGATTCTGAT
GAAGATGATGATGAATTGGGTAGAGAGACCAAAGATCTTGATGAGATGGATGATGATGAC
GACGACGATGACGTAGGAGATCATGACGATGACCACCCTGGGATGGAGGTGGTGCTGCAT
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GTTCAAGAGGAAGACTCAGCCTCTCACAGAACCATTATTAAGCCAGTGAAAACCAAG
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Clone variation with respect to NM_004247.3
762 t=>c

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004247 unedited
GGTGCAAATTTTGNATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGCTGGG
AACTCTTAGCTGAGCAGCGAGGAGCTCATGGATACCGACTTATATGATGAGTTTGGGAA
TTATATTGGACCAGAGCTTGATTCTGATGAAGATGATGATGAATTGGGTAGAGAGACCAA
AGATCTTGATGAGATGGATGATGATGACGACGACGATGACGTAGGAGATCATGACGATGA
CCACCCTGGGATGGAGGTGGTGTGATGAGGACAAGAAGTACTACCAACAGCCGAGGA
GGTGTATGGTCTGAGGTGGAGACCATAGTTCAAGAGGAAGACACTCAGCCTCTCACAGA
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TACGGTGTATGAGATGGATTTCTTGGCGGATCTGATGGATAACTCAGAGCTCATCAGAAA
TGTGACCCTTTGTGGACATCTCCACCATGGCAAGACATGTTTTGTGGATTGTTAATTGA
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AGACACCAAGGAAAATCTTATCTTCAATATCATGGACTCCAGGACATGTGAATTT
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GGCAGTACCCTGTGCATCNACAAGATGACCGGCTGATCCTGGAGCTGAAGCTGCCTCCA
CTGATGCTTATTACAGCTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004247 unedited GGGGGGGCAANNCCNCCNNNTTTTTNNNNNNNTTTTTCTTGNACCGCGGCCGCATTCTA NATCGNGTTTTTTTTTTTTTTTTTAGAGGTCAGAATGTTCTGTTCACTTGCAAACCATG GCTAAGGTCAAACCTGTAGAAAAATAAATTCATGTAATCCCAAAGATAGGGCCCCTTG GGGTTTCATCCCCTTCTCTTTCTGTGAGCCCAAGCTCCTCTCTTTTCTTGGAATGGAG CCCGGCAGAGGCCACAGAAGGAAGCAGGAGGCCAAATGCTCCTCTCACTGGGGCTGTG GGTTGGAGTTGGTGAGTTGTTCAAGATGGCAACAGCAGCTTCCAGACACTCTCTGACAA CACGAAGGCCACGTCATATGAGGTCTCAGCTTCAAGTACAGGAGTTGCAGCCCACTGTAG GGAGCAGGAGCTCCAGGAGTCCACGCACTCACATGGGGTAATTGAGCACAACATCCTGT TTGGCAAGTTCAGCAACATAGGATCATCGAAGAATTTGCTGATGCTCACATCTTCACTG AGGCCCTTCTACGGCGGTTTTGATCATGAATCCCGGCCAGGTGAGGAGCTGGCTGT GGCTCAAAGGGCGGATGACAATGCTCTGTCCAGNGGATCACCAGGCACAATCTGCCAG TGGTGGAAAGACAGACAGAAAAAGGCTTGCCCTGNGTGTGAGTCCCAGATCAGTCTCA AAGCCAAAAGAGTCGATGCCCCGGATAAAGCTTTGATGGTGTACCAGAGGGAGCCCTGG ATGGGTGCATCCTGAGCAGTGCCTCCGCGCTGGCCAGAACGGTATAAACTGCAGAGA CGCAATCTGCAGGGCCCTGGACCTCTACAAAGTATTAAGGCTCCATCAGACGAGGAGTA CCCATGAGGAAGGCAGAGTNNACGACTCTCCTGGCTGTNGGGATGGACTTGGCCCCGCC CCGGTGCAGGGGCTCCTGGGCAACACCGAATAT
Restriction Sites:	NotI-NotI
ACCN:	NM_004247
Insert Size:	3370 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_004247.2</u> , <u>NP_004238.2</u>
RefSeq Size:	3332 bp
RefSeq ORF:	2919 bp
Locus ID:	9343
UniProt ID:	<u>Q15029</u>
Cytogenetics:	17q21.31
Domains:	EFG_C, GTP_EFTU, GTP_EFTU_D2, EFG_IV

Protein Pathways: Spliceosome

Gene Summary: This gene encodes a GTPase which is a component of the spliceosome complex which processes precursor mRNAs to produce mature mRNAs. Mutations in this gene are associated with mandibulofacial dysostosis with microcephaly. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
Transcript Variant: This variant (1) encodes the longest isoform (a). Both variants 1 and 3 encode the same protein.