

Product datasheet for **RC227789**

EFTUD2 (NM_001142605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFTUD2 (NM_001142605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EFTUD2
Synonyms:	MFDGA; MFDM; SNRNP116; Snrp116; Snu114; U5-116KD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227789 representing NM_001142605
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGATGATGACGACGACGATGACGTAGGAGATCATGACGATGACCACCCTGGGATGGAGTGGTGC
 TGCATGAGGACAAGAAGTACTACCCAACAGCCGAGGAGGTGTATGGTCTGAGGTGGAGACCATAGTTCA
 AGAGGAAGACACTCAGCCTCTCACAGAACCATTATTAAGCCAGTGAAAACCAAGAAATTA

ACTCTGATGAGCAGACATTACCTGTTACGGTGTATGAGATGGATTTCTTGGCGGATCTGATGGATAACTCAGAGCTCA
 TCAGAAATGTGACCCCTTGTGGACATCTCCACCATGGCAAGACATGTTTTGTGGATTGTTAATTGAACA
 GACTCACCCGAAATCAGAAAGCGCTATGACCAAGATCTGTGCTATACTGACATCCTCTTCACAGAGCAA
 GAGAGAGGTGTAGGCATCAAAGCACTCCTGTGACAGTGGTCTTGCCAGACACCAAAGGAAATCTTATC
 TCTTCAATATCATGGACACTCCAGGACATGTGAATTTCTCTGATGAGGTCACAGCTGGCTTGGCCATCTC
 AGATGGAGTGGTCTTTTCAATTGATGCTGCTGAGGGGTGATGCTGAACACAGAGCGGCTGATCAAGCAT
 GCGGTGACAGGAGGCTGGCAGTCACTGTGTGCATCAACAAGATTGACCCGCTGATCCTGGAGCTGAAGC
 TGCCCTCCAATGATGCTTATTACAAGCTGCGCCACATTGTGGATGAGGTCAATGGATTAATAAGCATGTA
 TTCCACTGATGAGAACCTGATCCTTTCCCACTCCTGGGTAACGTCTGCTTCTCCAGCTCCCACTACAGC
 ATCTGCTTACGCTGGGCTCCTTTGCCAAGATCTATGCCGACACCTTTGGTGACATTAATTACCAAGAAT
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 GGGTCTGATTGAAGGTGTTGATCAACCAATTGTGAAGACAGCAACCATAACCGAACCCCGAGGCAATGA
 GGAGGCTCAGATTTCCGACCCTGAAGTTCAATACCACATCTGTTATCAAGATTGCTGTGGAGCCAGTC
 AACCCCTCAGAGCTGCCAAGATGCTTGTGGCCTGCGCAAGGTCAACAAGAGCTATCCATCCCTACCA
 CCAAGGTGGAGGAGTCTGGCGAGCATGTGATCCTGGGCACTGGGAGCTTACCTGGACTGTGTGATGCA
 TGATTTGCGGAAGATGTA

CTCAGAGATAGACATCAAGGTGGCTGACCCAGTTGTCACGTTTTGTGAGACG
 GTGGTGAAACATCCTCCCTCAAGTGTCTTGTGAAACGCCTAATAAGAAGAACAAGATCACCATGATTG
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 GAAGCTGGGAGAGTCTTCCAGACCAAGTACGATTGGGATCTGCTGGCTGCCCGTTCCATCTGGGCTTTT
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 GGCCAGATCATCCCACAGCCAGGAGAGTCTACTCTGCCCTTCTCATGGCTACTCCTCGTCTGATGG
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 ATTACCCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227789 representing NM_001142605
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MDDDDDDDDVGDHDDHPGMEVVLHEDKKYYPTAEEVYGPEVETIVQEEDTQPLTEPIIKPVKTKKFTLM
 EQTLPVTVYEMDFLADLMDNSELIRNVTLCGHLHHGKTCFVDCLEQTHPEIRKRYDQDLCYTDILFTEQ
 ERGVGIKSTPVTVVLPTDKGKSYLFNIMDTPGHVNFSDDEVTAGLRISDGVVLFIDAAEGVMLNTERLIKH
 AVQERLAVTVCINKIDRLILELKLPTDAYYKLRHIVDEVNGLISMYSTDENLILSPLLGNVCFSSSQYS
 ICFTLGSFAKIYADTFGDINYQEFAKRLWGDIIYFNPKTRKFTKKAPTSSSQRSFVEFIPLEPLYKILAQVV
 GDVDTSLPRTLDELGIHLTKEELKLNIRPLRLVCKKFFGEFTGFVDMCVQHIPSFKVGAAPKIEHTYTG
 GVDSDLGEAMSDCPDGPLMCHTTKMYSTDDGVQFHAFGRVLSGTIHAGQPVKVLGENYTLDEEDSQIC
 TVGRLWISVARYHIEVNRVPAGNWLIEGVDQPIVKTATITEPRGNEEAQIFRPLKFNTTSVIKIAVEPV
 NPSELPKMLDGLRKVNKSYPSTTKVEESGEHVILGTGELYDCVMHDLRKMYSIDIKVADPVVTF CET
 VVETSSLKCF AETPNKKNITMIAEPLKGLAEDIENEVVQITWNRKKGLEFFQTKYDWDLLAARSIWAF
 GPDATGPNILVDDTLPSEVDKALLGSVKDSIVQGFQWGTREGPLCDELIRNVKFKILD AVVAQEPLHRGG
 GQIIPARRVVYSAFLMATPRLMEPYFVEVQAPADCVSAVYTVLARRRGHVTQDAPIGPSPLYTIKAFI
 PAIDSFGFETDLRTHQTQGFSLSVFHHWQIVPGDPLDKSIVIRPLEQPAPHLAREFMIKTRRRKGLSE
 DVSISKFFDDPMLLELAKQDVVLNYPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

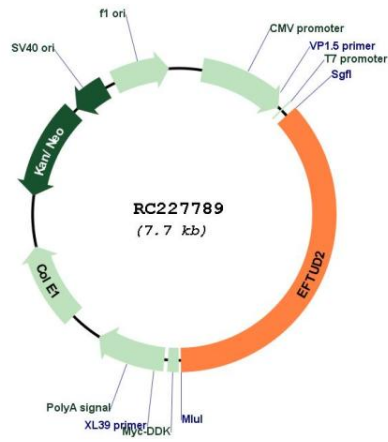


ACCN: NM_001142605

ORF Size: 2811 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001142605.1 , NP_001136077.1
RefSeq Size:	4058 bp
RefSeq ORF:	2814 bp
Locus ID:	9343
UniProt ID:	Q15029
Cytogenetics:	17q21.31
Protein Pathways:	Spliceosome
MW:	105.4 kDa
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]

Product images:



Circular map for RC227789