

## Product datasheet for **RG235093**

### **EFTUD2 (NM\_001258353) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EFTUD2 (NM_001258353) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EFTUD2
Synonyms:	MFDGA; MFDM; SNRNP116; Snrp116; Snu114; U5-116KD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG235093 representing NM\_001258353  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATACCGACTTATATGATGAGTTTGGGAATTATTTGGACCAGAGCTTGATTCTGATGAAGATGATG  
 ATGAATTGGGTAGAGAGACCAAAGATCTTGATGAGATGGATGATGATGACGACGACGATGACGTAGGAGA  
 TCATGACGATGACCACCCTGGGATGGAGGTGGTCTGCATGAGGACAAGAAGTACTACCCAACAGCCGAG  
 GAGGTGTATGGTCTGAGGTGGAGACCATAGTTCAAGAGGAAGACACTCAGCCTCTCACAGAACCATTAA  
 TTAAGCCAGTGAAAACCAAGAAATTCACCTCTGATGGAGCAGACATTACCTGTTACGGTGTATGAGATGGA  
 TTTCTTGGCGGATCTGATGGATAACTCAGAGCTCATCAGAAATGTGACCCCTTTGTGGACATCTCCACCAT  
 GGCAAGACATGTTTTGTGGATTGTTAATTGAACAGACTCACCCGAAATCAGAAAGCGCTATGACCAAG  
 ATCTGTGCTATACTGACATCCTCTTACAGAGCAAGAGAGAGGTGTAGGCATCAAAGCACTCCTGTGAC  
 AGTGGTCTTGCCAGACACCAAAGGAAAACTTATCTCTTCAATATCATGGACACTCCAGGACATGTGAAT  
 TTCTCTGATGAGGTCACAGCTGGCTTGGCATCTCAGATGGAGTGGTCTTTTCATTGATGCTGCTGAGG  
 GGGTATGCTGAACACAGAGCGGCTGATCAAGCATGCGGTGCAGGAGAGGCTGGCAGTCACTGTGTGCAT  
 CAACAAGATTGACCGGCTGATCCTGGAGCTGAAGCTGCCTCCAAGTATGCTTATTACAAGCTGCGCCAC  
 ATTGTGGATGAGGTCAATGGATTAATAAGCATGTATTCCACTGATGAGAACCTGATCCTTTCCCACTCC  
 TGGGTAACGTCTGCTTCTCCAGCTCCAGTACAGCATCTGCTTACGCTGGGCTCCTTTGCCAAGATCTA  
 TGCCGACACCTTTGGTGACATTAATTACCAAGAATTTGCTAAAAGACTCTGGGGTGACATCTACTTCAAC  
 CCTAAGACGCGAAAGTTCAACAAAAAGGCCCACTAGCAGCTCCAGAGAAGTTTCGTGGAGTTTATCT  
 TGGAGCCTTTTATAAGATCCTCGCCAGTTGTAGGTGACGTGGACACCAGCCTCCCAAGGACCTTAGA  
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 CACGCCTTTGGCCGGTGTGAGTGGCACCATTGCTGGGCAGCCTGTGAAGTACTGGGGGAGAACT  
 ACACCCTGGAGGATGAGGAAGACTCCAGATATGCACCGTGGGCCGCTTTGGATCTCTGTGGCCAGGTA  
 CCACATCGAGGTGAACCGTGTCTCTGCTGGCAACTGGGTTCTGATTGAAGGTGTTGATCAACCAATTGTG  
 AAGACAGCAACCATAACCGAACCCGAGGCAATGAGGAGGCTCAGATTTCCGACCTTGAAGTTCAATA  
 CCACATCTGTTATCAAGATTGCTGTGGAGCCAGTCAACCCTCAGAGCTGCCAAGATGCTTGATGGCCT  
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 GCACTGGGGAGCTCTACCTGGACTGTGTGATGCATGATTTGCGGAAGATGTACTCAGAGATAGACATCA  
 AGGTGGCTGACCCAGTTGTACGTTTTGTGAGACGGTGGTGGAAACATCCTCCCTCAAGTCTTTGCTGA  
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 GAGAATGAGGTGGTCCAGATTACGTGGAACAGGAAGAAGCTGGGAGAGTTCTTCCAGACCAAGTACGATT  
 GGGATCTGCTGGCTGCCGTTCCATCTGGGCTTTTGGCCCTGATGCGACTGGCCCAACATTCTGGTGGA  
 TGATACTCTGCCCTCTGAGGTGGACAAGGCTCTTCTGGTTCAGTGAAGGACAGCATCGTTCAAGTTTC  
 CAGTGGGGAACCAAGGAGGGCCCTCTGTGATGAATTGATTGGAATGTCAAGTTAAGATCCTGGATG  
 CGGTGGTTGCCAGGAGCCCTGCACCGGGCGGGGGCCAGATCATCCCCACAGCCAGGAGATCGTCTA  
 CTCTGCCTTCTCATGGCTACTCCTCGTCTGATGGAGCCTTACTACTTTGTAGAGGTCCAGGCCCTGCA  
 GATTGCGTCTCTGCAGTTTATACCGTCTGGCCAGGCGCAGGGGGCAGTACTCAGGATGCACCCATCC  
 CAGGCTCCCTCTGTACACCATCAAAGCTTTTATCCCGGCATCGACTCTTTGGCTTTGAGACTGATCT  
 CCGGACTCACACCCAGGACAAGCCTTTTCTGTCTGTCTTCCACCCTGGCAGATTGTGCTGGTGTGAT  
 CCCCTGGACAAGAGCATTGTATCCGCCCTTGGAGCCACAGCCAGCTCCTCACCTGGCCCGGAATTCA  
 TGATCAAACCCCGCGTAGGAAGGGCTCAGTGAAGATGTGAGCATCAGCAAATCTTCGATGATCCTAT  
 GTTGCTGGAACCTGCCAAACAGGATGTTGTGCTCAATTACCCCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG235093 representing NM\_001258353  
 Red=Cloning site Green=Tags(s)

MDTDLYDEFGNYIGPELDSDEDDDELGRETkdLDEMDDDDDDDDVGDHDDHPGMEVVLHEDKYYPTAE  
 EVYGPEVETIVQEEDTQPLTEPIIKPVKTKKFTLMEQTLPVTVYEMDFLADLMDNSELIRNVTLCGHLHH  
 GKTCFVDCLEIQTHPEIRKRYDQDLCYTDILFTEQERGVGKSTPVTVLPDTKKGKSYLFNIMDTPGHVN  
 FSDEVTAGLRISDGVVLFIDAAEGVMLNTERLIKHAVQERLAVTVCINKIDRLILELKLPTDAYYKLRH  
 IVDEVNGLISMYSTDENLILSPLLGNVCFSSSQYSICFTLGSFAKIYADTFGDINYNQEFKRLWGDYIFN  
 PKTRKFTKKAPTSSQRSFVEFILLEPLKILAQVVGDVDTSLPRTLDELGIHLTKEELKLNIRPLLRVC  
 KKKFFGEFTGFVDMCVQHIPS PKVGAKPKIEHTYTGGVSDLGEAMSDCDPDGPLMCHTTKMYSTDDGVQF  
 HAFGRVLSGTIHAGQPVKVLGENYTLDEEEDSQICTVGRLWISVARYHIEVNRVPAGNWVLEIGVDQPIV  
 KTATITEPRGNEEAQIFRPLKFNTTSVIKIAVEPVNPEL PKMLDGLRKNKSYPSLTTKVEESGEHVIL  
 GTGELYDCVMHDLRKMSEIDIKVADPVVTFCEVTVETSSLKCF AETPNKKNKI TMIAEPLEKGLAEDI  
 ENEVVQITWNRKKGLEFFQTKYDWDLLAARSIWAFGPDATGPNILVDDTL PSEVDKALLGSVKDSIVQGF  
 QWGTREGPLCDELIRNVKFKILD AVVAQEPLHRGGQI IPTARRVVYSAFLMATPRLMEPYFVEVQAPA  
 DCVSAVYTVLARRRHVTQDAPIPGSPLYTIKAFIPAIDSFGFETDLRTHTQGGQAFSLSVFHHWQIVPGD  
 PLDKSIVIRPLEPQPAPHLAREFMIKTRRRKGLSEDVSIKFFDDPMLLELAKQDVVLYNPM

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

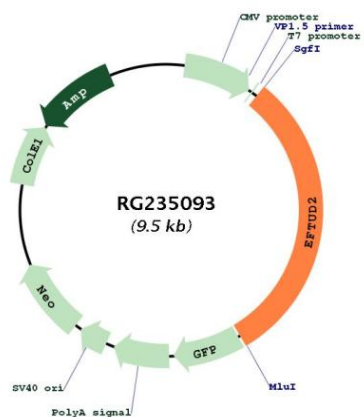


**ACCN:** NM\_001258353

**ORF Size:** 2916 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001258353.1</a> , <a href="#">NP_001245282.1</a>
<b>RefSeq Size:</b>	4304 bp
<b>RefSeq ORF:</b>	2919 bp
<b>Locus ID:</b>	9343
<b>UniProt ID:</b>	<a href="#">Q15029</a>
<b>Cytogenetics:</b>	17q21.31
<b>Protein Pathways:</b>	Spliceosome
<b>Gene Summary:</b>	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 RG235093