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Product datasheet for RG209279

TUBA3E (NM_207312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUBA3E (NM_207312) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBA3E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG209279 representing NM_207312
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGAGTGTATCTCTATCCACGTGGGGCAGGCGGGTGTCCAGATCGGCAATGCCTGCTGGGAACTGT
ACTGCCTTGAACATGGAATTCAGCCCGATGGTCAAATGCCAAGTGATAAAACCATTGGTGGCGGGGACGA
CTCCTTCAACACGTTCTTCAGTGAGACTGGAGCTGGCAAGCACGTGCCCAGAGCAGTGTTTGTGGACCTG
GAGCCCACTGTGGTCGATGAAGTGCGCACAGGGACCTACAGGCAGCTCTTCCACCCAGAGCAGCTGATCA
CCGGGAAGGAAGATGCAGCCAGTAATTACGCCAGGGGCCATTACACCATCGGCAAGGAGATTGTTGACCT
AGTCCTGGACCGGATCCGCAAACTGGCGGATCTGTGCACAGGACTGCAGGGCTTCCTCATCTTCCACAGC
TTTGGGGGCGGCACTGGCTCTGGGTTCGCATCTCTGCTCATGGAGCGGCTCTCAGTGGATTACAGCAAGA
AGTCCAAGCTAGAGTTTGCCATTTACCCAGCCCCCCAGGTCTCCACAGCCGTGGTGGAGCCCTACAACTC
CATCCTAACCACCCACACGACCCTGGAACATTCTGACTGTGCCTTCATGGTCGACAATGAAGCCATCTAT
GACATATGTCGGCGCAACCTGGACATTGAACGTCCCACGTACACCAACCTCAATCGCCTGATTGGGCAGA
TCGTGTCCTCCATCACGGCCTCCCTGCGATTTGATGGGGCCCTGAATGTGGACTTGACGGAATTCCAGAC
CAACCTCGTGCCGTACCCCCGCATCCACTTCCCCCTGGCCACCTACGCCCCAGTCATCTCAGCTGAGAAG
GCCTACCATGAGCAGCTGTCTGTGGCTGAGATCACCAATGCCTGCTTCGAGCCAGCCAATCAGATGGTCA
AGTGTGACCCTCGCCATGGCAAGTACATGGCCTGCTGCATGTTGTACAGGGGGGACGTGGTCCCCAAAGA
CGTCAATGCGGCCATCGCCACCATCAAGACCAAGCGCACTATCCAGTTTGTGGATTGGTGCCCGACTGGA
TTTAAGGTGGGCATTAACTACCAGCCCCCCACAGTGGTCCCCGGGGGAGACCTGGCCAAGGTGCAGCGGG
CCGTGTGCATGCTGAGCAACACCACGGCCATTGCGGAGGCCTGGGCCCGCCTGGTCCATAAGTTCGATCT
CATGTATGCCAAGTGGGCCTTTGTGCACTGGTACGTGGGCGAAGGCATGGAAGAGGGAGAGTTCTCTGAG
GCCCGCGAGGACCTGGCAGCTCTAGAGAAGGATTGTGAAGAGGTGGGCGTGGATTCCGTGGAAGCTGAGG
CTGAAGAAGGCGAAGAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

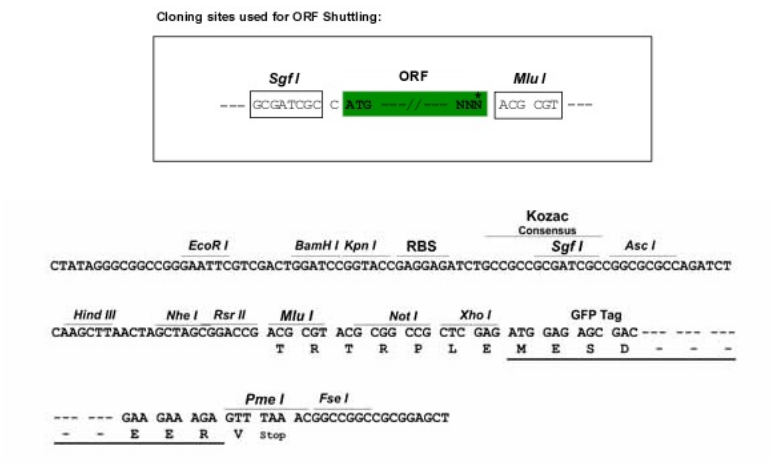
>RG209279 representing NM_207312
Red=Cloning site Green=Tags(s)

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDL
EPTVVDEVRTGTYRQLFHPEQLITGKEDAASNYARGHYTIGKEIVDLVLDRIRKLADLCTGLQGFLIFHS
FGGGTGSGFASLLMERLSVDYSKKSKLEFAIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIY
DICRRNLDIERPTYTNLNRLIGQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEK
AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMACCMLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTG
FKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLVHKFDLMYAKWAFVHWYVGEGMEEGEFSE
AREDLAALEKDCEEVGVDSVEAEAEEGEEY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207312

ORF Size: 1350 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:
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_207312.1, NP_997195.1

RefSeq Size: 1554 bp

RefSeq ORF: 1353 bp

Locus ID: 112714

UniProt ID: Q6PEY2

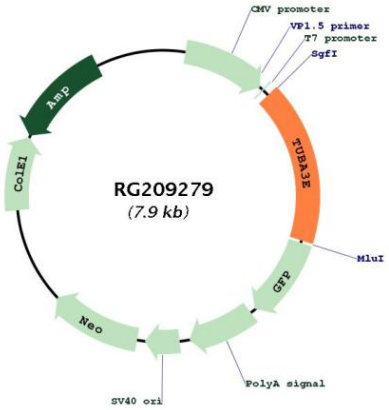
Cytogenetics: 2q21.1

Protein Families: Druggable Genome

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

Gene Summary: Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. This gene encodes an alpha tubulin that highly conserved among species. A missense mutation in this gene has been potentially linked to microlissencephaly and global developmental delay. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG209279