

Product datasheet for SC303718

alpha Tubulin (TUBA3C) (NM_006001) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Tubulin (TUBA3C) (NM_006001) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Tubulin
Synonyms:	bA408E5.3; TUBA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303718 representing NM_006001. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGCGTGAGTGTATCTCTATCCACGTGGGGCAGGCAGGAGTCCAGATCGGCAATGCCTGCTGGAACTG
 TACTGCCTGGAACATGGAATTCAGCCCCGATGGTCAGATGCCAAGTGATAAAACCATTGGTGGTGGGGAC
 GACTCCTTCAACACGTTCTTCAGTGAGACTGGAGCTGGCAAGCACGTGCCAGAGCAGTGTTCGGAC
 CTGGAGCCCACTGTGGTCGATGAAGTGCACAGGAACCTATAGGCAGCTCTCCACCCAGAGCAGCTG
 ATCACCGGAAGGAAGATGCGGCCAATAATTACGCCAGAGGCCATTACACCATCGGAAGGAGATCGTC
 GACCTGGTCCTGGACCGGATCCGAACTGGCGGATCTGTGCACGGGACTGCAGGGCTTCCTCATCTTC
 CACAGTTTTGGGGTGGCACTGGCTCTGGGTTTCGATCTCTGCTCATGGAGCGGCTCTCAGTGGATTAC
 GGCAAGAAGTCCAAGCTAGAATTTGCCATTTACCCAGCCCCCAGGTCTCCACGGCCGTGGTGGAGCCC
 TACAACTCCATCCTGACCACCCACACGACCCTGGAACATTCTGACTGTGCCTTCATGGTCGACAATGAA
 GCCATCTATGACATATGTCGGCGCAACCTGGACATCGAGCGTCCACGTACACCAACCTCAATCGCCTG
 ATTGGGCAGATCGTGTCTCCATCACGGCTCCCTGCGATTTGACGGGGCCCTGAATGTGGACTTGACG
 GAATTCAGACCAACCTAGTGCCGTACCCCGCATCCACTCCCCCTGGCCACCTACGCCCGGTCATC
 TCAGCCGAGAAGGCCTACCACGAGCAGCTGTCCGTGGCTGAGATACCAATGCCTGCTTCGAGCCAGCC
 AATCAGATGGTCAAGTGTGACCCTCGCCACGGCAAGTACATGGCCTGCTGCATGTTGTACAGGGGGAT
 GTGGTCCCGAAAGATGTCAACGCGGCCATCGCCACCATCAAGACCAAGCGCACCATCCAGTTTGTAGAT
 TGGTGCCCAACTGGATTTAAGGTGGGCATTAACCTACCAGCCCCCAGGTGGTCCCTGGGGGAGACCTG
 GCCAAGGTGCAGCGGGCTGTGTGCATGCTGAGCAACACCACGGCCATCGCGGAGGCCTGGGCTCGCCTG
 GACCATAAGTTCGATCTCATGTATGCCAAGCGGGCCTTTGTGCACTGGTACGTGGGAGAAGGCATGGAG
 GAGGGGGAGTTCTCTGAGGCCCGCAGGACCTGGCAGCTCTGGAGAAGGATTATGAAGAGGTGGGCGTG
 GATTCCGTGGAAGCCGAGGCTGAAGAAGGTGAAGAATAC**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_006001
Insert Size:	1353 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).
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:	<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_006001.2
RefSeq Size:	1564 bp
RefSeq ORF:	1353 bp
Locus ID:	7278
UniProt ID:	Q13748
Cytogenetics:	13q12.11
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	50 kDa

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. There are multiple alpha and beta tubulin genes and they are highly conserved among and between species. This gene is an alpha tubulin gene that encodes a protein 99% identical to the mouse testis-specific Tuba3 and Tuba7 gene products. This gene is located in the 13q11 region, which is associated with the genetic diseases Clouston hidrotic ectodermal dysplasia and Kabuki syndrome. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) is the longest transcript and encodes the full-length isoform (1).