

## Product datasheet for SC103336

### alpha Tubulin (TUBA4A) (NM\_006000) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Tubulin (TUBA4A) (NM_006000) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Tubulin
Synonyms:	ALS22; H2-ALPHA; TUBA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC103336 sequence for NM_006000 edited (data generated by NextGen Sequencing)

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ATGCGTGAATGCATCTCAGTCCACGTGGGGCAGGCAGGTGCCAGATGGGCAATGCCTGC
TGGGAGCTCTATTGCTTGAACATGGGATTCAGCCTGATGGGCAGATGCCCAAGTACAAG
ACCATTGGTGGAGGGGACGACTCCTTACCACCTTCTTCTGTGAAACTGGTGCTGGAAAA
CACGTACCCCGGGCAGTTTTTGTGGATCTGGAGCCTACGGTCATTGATGAGATCCGAAAT
GGCCCATACCGACAGCTCTCCACCCAGAGCAGCTCATCACTGGGAAAGAGGATGCTGCC
AACAACTATGCCCGTGGTCACTATACCATTGGCAAGGAGATCATTGACCCAGTGTGGAT
CGGATCCGCAAGCTGTCTGACCAGTGCACAGGACTTCAGGGCTTCTGGTGTCCACAGC
TTTGGTGGGGCAGTGGCTCTGGCTTACCTCACTCCTGATGGAGCGGCTCTCTGTTGAC
TATGGCAAGAAATCCAAGCTGGAATTCTCCATCTACCCAGCCCCCAGGTGTCTACAGCC
GTGGTCGAGCCCTACAACCTATCTGACCACCCACACCACCTGGAGCACTCAGACTGT
GCCTTCATGGTGGACAACGAAGCAATCTATGACATCTGCCCGCGCAACCTAGACATCGAG
CGCCCAACCTACACCAACCTCAATCGCCTCATTAGCCAAATTGTCTCCTCCATCACAGCT
TCTCTGCGCTTTGACGGGGCCCTCAATGTGGACCTGACAGAGTCCAGACCAACCTGGTG
CCCTACCCTCGCATCCACTTCCCCTGGCCACCTATGCACCAGTCATCTCTGCAGAAAAG
GCATACCACGAGCAGCTGTGGTGGCAGAGATCACCAATGCCTGCTTTGAGCCTGCCAAC
CAGATGGTAAAGTGTGATCCCCGGCACGGCAAGTACATGGCCTGCTGCCTGTGTACCGT
GGAGATGTGGTGCCCAAGGATGTCAACGCTGCCATTGCCGCATCAAGACCAAGCCGAGC
ATTCAGTTTGTGACTGGTGCCTCCACAGGCTTCAAGGTTGGTATCAACTACCAGCCTCCC
ACTGTGGTGCCTGGGGGTGACCTGGCCAAGGTGCAGCGTGCCGTGTGCATGCTGAGCAAC
ACGACCGCCATCGCCGAGGCTGGGCCCGCTGGACCACAAGTTCGACCTGATGTATGCC
AAGAGGGCGTTTGTGCACTGGTATGTGGGTGAGGGCATGGAGGAGGGTGTCTCCGAG
GCCCGTGAGGATATGGCTGCCCTGGAGAAGGATTATGAGGAGGTGGGCATCGACTCCTAT
GAGGACGAGGATGAGGGAGAAGAATAA

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Clone variation with respect to NM\_006000.1



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006000 unedited NNGGGGGNNNNNNNNNNNNNCCTTNNCCNNNNNNNGGTTCAATTGTATCGATCCTTAGGC GGCCGGAATCGCCAGACCGTCCCCCGCTCACGTGAGACGCACCGCCGGACTCACCATG CGTGAATGCATCTCAGTCCACGTGGGGCAGGCAGGTGTCCAGATGGGCAATGCCTGCTGG GAGCTCTATTGCTTGAACATGGGATTCAGCCTGATGGGCAGATGCCAGTGACAAGACC ATTGGTGGAGGGGACGACTCCTTCACCACCTTCTTCTGTGAAACTGGTGTGGAAAACAC GTACCCCGGGCAGTTTTTGTGGATCTGGAGCCTACGGTCATTGATGAGATCCGAAATGGC CCATACCGACAGCTCTCCACCCAGAGCAGCTCATCACTGGGAAAGAGGATGCTGCCAAC AACTATGCCCGTGGTCACTATAACCATTGGCAAGGAGATCATTGACCCAGTCTGGATCGG ATCCGCAAGCTGTCTGACCAGTGACAGGACTTCAGGGCTTCTGGTGTCCACAGCTTT GGTGGGGGCACTGGCTCTGGCTTCACTCCTGATGGAGCGGCTCTCTGTTGACTAT GGCAAGAAATCCAAGCTGGAATTCTCCATCTACCCAGCCCCCAGGTGTCTACAGCCGTG GTCGAGCCCTACAACCTATCCTGACCACCCACACCACCTGGAGCACTCAGACTGTGCC TTCATGGTGGACAACGAAGCAATCTATGACATCTGCCCGCAACCTAGACATCGAGCCG CCAACCTACACCAACCTCAATCGCCTCATTAGCCAAATTGTCTCCTCCATCACAGCTTCT CTGCGCTTNTGACGGGCCNTCATGTGGACCTGACAGAGTCCAGACCACCTGGGTGCC TACCCTCGCATNCATTTNCCCTGGNCCACTATGCACCAGTCATCTCTGGCAGAAAGGCA TACACGAGCAGACTGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006000
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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).
<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_006000.1</a> , <a href="#">NP_005991.1</a>
<b>RefSeq Size:</b>	1514 bp
<b>RefSeq ORF:</b>	1347 bp
<b>Locus ID:</b>	7277
<b>UniProt ID:</b>	<a href="#">P68366</a>
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	tubulin

<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Gap junction, Pathogenic Escherichia coli infection
<b>Gene Summary:</b>	<p>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 encodes an alpha tubulin that is a highly conserved homolog of a rat testis-specific alpha tubulin. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2013]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>