

### OriGene Technologies, Inc.

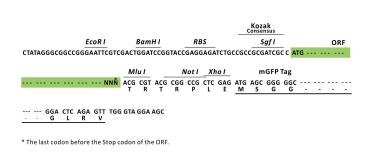
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RC208669L4

# alpha Tubulin (TUBA1A) (NM\_006009) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	alpha Tubulin (TUBA1A) (NM_006009) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	alpha Tubulin
Synonyms:	B-ALPHA-1; LIS3; TUBA3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208669).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I            GCG ATC GC         ATG//         NNN ACG CGT



ACCN: ORF Size: NM\_006009 1353 bp



View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

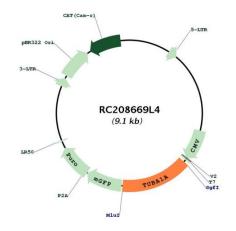
	alpha Tubulin (TUBA1A) (NM_006009) Human Tagged Lenti ORF Clone – RC208669L4
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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. <u>More info</u>
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 M	<ul> <li>ethod: 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> </ul>
RefSeq:	<u>NM 006009.2</u>
RefSeq Size:	1930 bp
RefSeq ORF:	1356 bp
Locus ID:	7846
UniProt ID:	<u>Q71U36</u>
Cytogenetics:	12q13.12
Domains:	tubulin
Protein Families:	Druggable Genome
Protein Pathway	Gap junction, Pathogenic Escherichia coli infection
MW:	50.1 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

### Serigene alpha Tubulin (TUBA1A) (NM\_006009) Human Tagged Lenti ORF Clone – RC208669L4

# Gene Summary:Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are<br/>composed of a heterodimer of alpha and beta tubulins. The genes encoding these<br/>microtubule constituents belong to the tubulin superfamily, which is composed of six distinct<br/>families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes.<br/>The alpha and beta tubulins represent the major components of microtubules, while gamma<br/>tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple<br/>alpha and beta tubulin genes, which are highly conserved among species. This gene encodes<br/>alpha tubulin and is highly similar to the mouse and rat Tuba1 genes. Northern blot studies<br/>have shown that the gene expression is predominantly found in morphologically<br/>differentiated neurologic cells. This gene cause lissencephaly type 3 (LIS3) - a neurological<br/>condition characterized by microcephaly, intellectual disability, and early-onset epilepsy<br/>caused by defective neuronal migration. Alternative splicing results in multiple transcript<br/>variants encoding distinct isoforms. [provided by RefSeq, Jul 2017]

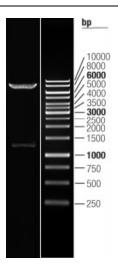
### **Product images:**



Circular map for RC208669L4

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US





Double digestion of RC208669L4 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US