

Product datasheet for RC402306

Tuberin (TSC2) (NM_000548) Human Mutant ORF Clone

Product data:

Product Type: Mutant ORF Clones Product Name: Tuberin (TSC2) (NM_000548) Human Mutant ORF Clone **Mutation Description:** E66X Affected Codon#: 66 Affected NT#: 196 **Nucleotide Mutation:** TSC2 Mutant (E66X), Myc-DDK-tagged ORF clone of Homo sapiens tuberous sclerosis 2 (TSC2), transcript variant 1 as transfection-ready DNA Effect: **Tuberous slerosis** TSC2 Symbol: Synonyms: LAM; PPP1R160; TSC4 E. coli Selection: Kanamycin (25 ug/mL) **Mammalian Cell** Neomycin Selection: pCMV6-Entry (PS100001) Vector: Tag: Myc-DDK ACCN: NM_000548 **ORF Size:** 195 bp **Restriction Sites:** Sgfl-Xhol >RC402306 representing NM_000548 **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ATGGCCAAACCAACAAGCAAAGATTCAGGCTTGAAGGAGAAGTTTAAGATTCTGTTGGGACTGGGAACAC CGAGGCCAAATCCCAGGTCTGCAGAGGGTAAACAGACGGAGTTTATCATCACCGCGGAAATACTGAGAGA ACTGAGCATGGAATGTGGCCTCAACAATCGCATCCGGATGATAGGGCAGATTTGT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGA TAAGGTTTAA



View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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

	erin (TSC2) (NM_000548) Human Mutant ORF Clone – RC402306
Protein Sequence:	<pre>>RC402306 representing NM_000548 Red=Cloning site Green=Tags(s)</pre>
	MAKPTSKDSGLKEKFKILLGLGTPRPNPRSAEGKQTEFIITAEILRELSMECGLNNRIRMIGQIC
	SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Xhol
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgfi ORF Xhoi Gegrege c Arg Inni Crc GAG
	EcoR1 BamH1 Kpn I RBS Consensus Consensus Sgf1 CTATAGGGCGGCGGGGAATTCGTCGGACTGGACTCGGACGGGGGGGG
	L E Q K L I S E E
	EcoR V Flag.Tag Pme I Fse I GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGCC D L A N D I L D Y K D D K V stop
	* The last codon before the Stop codon of the ORF
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).
RefSeq:	<u>NP 000539</u>
RefSeq Size:	195 bp
RefSeq ORF:	5424 bp
Locus ID:	7249
Cytogenetics:	16p13.3
Domains:	Rap_GAP, Tuberin
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway, mTOR signaling pathway, p53 signaling pathway

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	Tuberin (TSC2) (NM_000548) Human Mutant ORF Clone – RC402306
MW:	7.2 kDa
Gene Summary:	Mutations in this gene lead to tuberous sclerosis complex. Its gene product is believed to be a tumor suppressor and is able to stimulate specific GTPases. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US