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 SC207642

LAMTOR1 (NM_017907) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	LAMTOR1 (NM_017907) Human 3' UTR Clone
Symbol:	LAMTOR1
Synonyms:	C11orf59; p18; p27RF-Rho; PDRO; Ragulator1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_017907
Insert Size:	560 bp
Insert Sequence:	>SC207642 3'UTR clone of NM_017907 The sequence shown below is from the reference sequence of NM_017907. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GAGCTGGTTGTACAGTTTGGGATCCCATGAAGAGAGGGGTCCTTGGACAGCTCTTCTCCTCTCTTCATC CCATCTCTACCCCACCCCCTTGGCCCCCAGCCTCACTGCGGCTTATACAGTACCCTAACCTGCTACTAA TCACAGAGAAAAATGTGAAGAAGGAGGAGAAGAGGAAGGCTAGAAGCCTGAGCAAGTGAGGGTAGAACC TTTTGGGACTGGCCTTTGAAGCTCTGGCCAGGGATGGGGTGGGGGCCAAAAGGACAGAGCCTGGTATGT CTTCATAGTCATTGAGAATGTGGAGATACCAGTTTGGGTGGGGGGTGATCACCAGGGGACCTAGGGAGA TCCCCTTCCCACCCTCTCTGTTGGCCTCAGAGTCACTCCTGCCCCCTCTCCCTGACTTGGTGCTCACAT GCACCTCACTAGGGTTTGTGACCAGGGTCTGGATGAGCTTGAATTTGAATGAATTGAGTTTGTATTTCT AGAACCCTGGGTTTTTACATGTTTGGTCTTTTTTTGTTTTGGTTTGTCACCCTCGATAAAGGAAGTATA TTCATCCA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_017907.3
Summary:	As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. LAMTOR1 is directly responsible for anchoring the Ragulator complex to membranes. Also required for late endosomes/lysosomes biogenesis it may regulate both the recycling of receptors through endosomes and the MAPK signaling pathway through recruitment of some of its components to late endosomes. May be involved in cholesterol homeostasis regulating LDL uptake and cholesterol release from late endosomes/lysosomes. May also play a role in RHOA activation. [UniProtKB/Swiss-Prot Function]
Locus ID:	55004
MW:	20.6