

## **Product datasheet for SC325449**

## 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

## robld3 (LAMTOR2) (NM\_001145264) Human Untagged Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: robld3 (LAMTOR2) (NM\_001145264) Human Untagged Clone

Tag: Tag Free
Symbol: LAMTOR2

Synonyms: ENDAP; HSPC003; MAPBPIP; MAPKSP1AP; p14; Ragulator2; ROBLD3

**Vector:** pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM\_001145264, the custom clone sequence may differ by one or

more nucleotides

ATGCTGCGCCCCAAGGCTTTGACCCAGGTGCTAAGCCAAGCCAACACTGGAGGCGTCCAG AGCACCCTGCTGCTGAATAACGAGGGATCACTGCTGGCCTACTCTGGTTACGGGGACACT GACGCCCGGGTCACCGCTGCCATAGCCAGTAACATCTGGGCCGCCTACGACCGGAACGGG AACCAAGCGTTTAATGAAGACAATCTCAAATTCATCCTCATGGACTGCATGGCCCAGGCT

TTGGTGCAGTACCTGGAGGAGCCCCTCACCCAAGTGGCGGCATCT

**Restriction Sites:** Please inquire ACCN: NM\_001145264

**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:** 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.

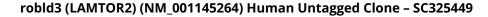
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

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: <u>NM 001145264.1</u>, <u>NP 001138736.1</u>

 RefSeq Size:
 609 bp

 RefSeq ORF:
 288 bp

 Locus ID:
 28956

 UniProt ID:
 Q9Y2Q5

 Cytogenetics:
 1q22

ORIGENE

**Gene Summary:** The product of this gene is highly conserved with a mouse protein associated with the

cytoplasmic face of late endosomes and lysosomes. The mouse protein interacts with MAPK scaffold protein 1, a component of the mitogen-activated protein kinase pathway. In humans, a mutation in this gene has been associated with a primary immunodeficiency syndrome, and

suggests a role for this protein in endosomal biogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.