

Product datasheet for **RG227003**

robld3 (LAMTOR2) (NM_001145264) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	robld3 (LAMTOR2) (NM_001145264) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	robld3
Synonyms:	ENDAP; HSPC003; MAPBPIP; MAPKSP1AP; p14; Ragulator2; ROBLD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227003 representing NM_001145264 Red=Cloning site Blue=ORF Green=Tags(s) TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCTGCGCCCCAAGGCTTTGACCCAGGTGCTAAGCCAAGCCAACACTGGAGGCGTCCAGAGCACCTGCTGCTGAATAACGAGGGATCACTGCTGGCCTACTCTGGTTACGGGGACACTGACGCCCGGGTCACCGCTGCATAGCCAGTAACATCTGGGCCGCCTACGACCGGAACGGGAACCAAGCGTTAATGAAGACAATCTCAAA TTCATCCTCATGGACTGCATGGCCAGGCTTTGGTGCAGTACCTGGAGGAGCCCCTACCCAAGTGGCGGCATCT ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG227003 representing NM_001145264 Red=Cloning site Green=Tags(s) MLRPKALTQVLSQANTGGVQSTLLLLNNEGSLLAYSGYGDTDARVTAASNIWAAYDRNGNQAFNEDNLK FILMDCMAQALVQYLEEPLTQVAAS TRTRPLE - GFP Tag - V
Restriction Sites:	SgfI-MluI



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Cloning Scheme:



ACCN: NM_001145264

ORF Size: 285 bp

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. [More info](#)

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 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: [NM_001145264.2](#)

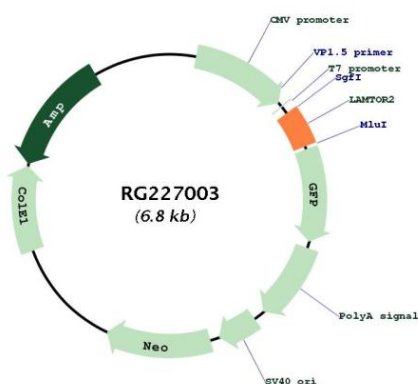
RefSeq Size: 609 bp

RefSeq ORF: 288 bp

Locus ID: 28956
 UniProt ID: [Q9Y2Q5](#)
 Cytogenetics: 1q22
 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]

Product images:



Circular map for RG227003