

Product datasheet for **SC117696**

RAB7L1 (RAB29) (NM_003929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB7L1 (RAB29) (NM_003929) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB7L1
Synonyms:	RAB7L; RAB7L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117696 sequence for NM_003929 edited (data generated by NextGen Sequencing)

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ATGGGCAGCCGCGACCACCTGTTCAAAGTGCTGGTGGTGGGGGACGCCGAGTGGGCAAG
ACGTGCGCTGGTGCAGCGATATCCCAGGACAGCTTCAGCAAACACTACAAGTCCACGGTG
GGAGTGGATTTTCTGCTCTGAAGTTCTCCAGTGGTCTGACTACGAGATAGTGCGGCTTCAG
CTGTGGGATATTGCAGGGCAGGAGCGCTTCACCTCTATGACACGATTGTATTATCGGGAT
GCCTCTGCCTGTGTTATTATGTTTGACGTTACCAATGCCACTACCTTCAGCAACAGCCAG
AGGTGGAAACAGGACCTAGACAGCAAGCTCACACTACCAATGGAGAGCCGGTGCCTGCGC
CTGCTCTGGCCAACAAGTGTGATCTGTCCCCTTGGGCAGTGAGCCGGGACCAGATTGAC
CGGTTTCAGTAAAGAGAACGGTTTTCACAGGTTGGACAGAAACATCAGTCAAGGAGAACAAA
AATATTAATGAGGCTATGAGAGTCCTCATTGAAAAGATGATGAGAAATTCCACAGAAGAT
ATCATGTCTTTGTCCACCAAGGGGACTACATCAATCTACAAACCAAGTCTCCAGCTGG
TCCTGCTGCTAG
```

Clone variation with respect to NM_003929.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003929 unedited
 NGGGGGTGCAATTTTGTAAACGACTACTATAGGGCGGCCCGCGATTCCGGCACCAGNAG
 GGCGTCTAGGGAATCGAGGTGCCGGCTGCTCCTTCTCACAATTTGCCAGACAGGCGGT
 GGGTGGGAATGCCTCACTTCACTTTGAAGAGGGTCCGGATCCAAAGGGTTAAAACGAGC
 GACCCCGATCCCGACCACACTCCCCTCCCTAAAACGCACACCCCGCTAGCCATGG
 GCAGCCGCGACCACCTGTTCAAAGTGTGGTGGTGGGGACGCCGAGTGGGCAAGACGT
 CGCTGGTGCAGCATATCCCAGGACAGCTTCAGCAAACACTACAAGTCCACGGTGGGAG
 TGGATTTTGTCTGAAGTTCTCCAGTGGTCTGACTACGAGATAGTGGCGCTTCAGCTGT
 GGGATATTGCAGGGCAGGAGCGCTTACCTCTATGACACGATTGTATTATCGGGATGCCT
 CTGCCTGTGTTATTATGTTTACGTTACCAATGCCACTACCTTCAGCAACAGCCAGAGGT
 GGAAACAGGACCTAGACAGCAAGCTCACACTACCAATGGAGAGCCGGTGCCTGCCTGC
 TCTTGGCCAACAAGTGTGATCTGTCCCCTTGNCGAGTGAAGCCGGGACCAGATTGACCGGT
 TCAGTAAAGAGAACGGTTTCACAGGTTGGACAGAAACATCAGTCAAGGAGAACAAAATA
 TTAATGAGGCTATGAGAGTCTCATTGAAAAGATGATGAGAAAAATCCACAGAAGATATCA
 TGTCTTTGTCCACCCAGNGACTACATCAATCTACAAACCAAGTCTCCAGCTGGGTCTG
 CTGCTAGNAAGNGTTTGGCTTATTTTCATCCCAGTCTGGGGAGGCCCTTAAAGTCTCTTCC
 TTTTGGTGCCCACTGACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003929 unedited
 NNNNNNTTACTCTGNNACCGCGGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTT
 TTGAGACGGAGTCTTCTGTGACCCAGGCTGAAGTCCGGTGGCATGATCTCGGTTTAC
 TGCAACCTCTGCCTCCCAGTCTCAAGCGATTCTCCACCTCAGTCTCCAGAGTAGCTGGG
 ATTACAGACACGTGCCATCACGCTGGTAATTTTTGTACTTTTAGTAGAAAACGCGGGTT
 TTGCCATGCTGACCAGGTTGGTCTCGAATTCCTGGCCTCATGTGATCCGCCTGCCTTGGC
 CTCCCCAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGGCCAAAAAATTGACTAT
 TCTTGATGCCAAGACAAGAGAACTTAATTATGACGTTAGAAGTTTAAAAATACAGTGA
 CTTCTGGGACACTTCTAGTAGCCAAAAATCCACAGATGCCAGACCCCTCCTTCTGCAT
 TCCAGAATCAGATGTTTACATTCGAAGACAGAAAGAACTGAAACAACGGCCTACAAGAA
 ATTTGGGAAATGACATTTGATCTCATTTTCTCTCAATTGGAAGTCATGATATCAATGAA
 TATCAAATGGAAAAATAAGCTCAGAAGTAGGTGAGAATTATGATCTCTAAAACGCAGGTG
 CTGATTTCTAATCCTTCTATAAAATTCGGATCACAAATTGAGGGCTGATGAGAAGATC
 TTACACCGANAGCACTAACTGGCACTAATGTGAGCCAGCAACATGTGAAAGGCTAATCCN
 AGAGATGCAGAAATGCACATGGGTTCCCAGGTGTCTTTCTAAGTGACAATGGGCCTCCTT
 ACTGGACAGTAGTCAGGAGACAATTCAAATGTAATTAATAAAAAATGCCAGGTGGGCAACC
 AAAAGGGAGNAGACTTAAAAGACCTCCAGAAGTGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_003929

Insert Size:

1690 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_003929.1](#), [NP_003920.1](#)

RefSeq Size: 2443 bp

RefSeq ORF: 612 bp

Locus ID: 8934

UniProt ID: [O14966](#)

Cytogenetics: 1q32.1

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the integrity of the endosome-trans-Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). May play a role in the formation of typhoid toxin transport intermediates during Salmonella enterica serovar Typhi (S.Typhi) epithelial cell infection.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1).