

## Product datasheet for **SC324786**

### **RAB7L1 (RAB29) (NM\_001135662) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB7L1 (RAB29) (NM_001135662) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB7L1
Synonyms:	RAB7L; RAB7L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324786 representing NM_001135662. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCAGCCGCGACCACCTGTTCAAAGTCTGGTGGTGGGGACGCCGAGTGGCAAGACGTCGCTG
GTGCAGCGATATCCCAGGACAGCTTCAGCAAACACTACAAGTCCACGGTGGGAGTGGATTTTGCTCTG
AAGGTTCTCCAGTGGTCTGACTACGAGATAGTGGGCTTCAGCTGTGGGATATTGCAGGGCAGGAGCGC
TTCACCTCTATGACACGATTGTATTATCGGGATGCCTCTGCCTGTGTTATTATGTTTGACGTTACCAAT
GCCACTACCTTCAGCAACAGCCAGAGGTGAAACAGGACCTAGACAGCAAGCTCACACTACCAATGGA
GAGCCGGTGCCCTGCCTGCTCTTGGCCAACAAGTGTGATCTGTCCCTTGGGCAGTGAGCCGGGACCAG
ATTGACCGGTTTCAGTAAAGAGAACGGTTTCACAGGTTGGACAGAAACATCAGTCAAGGAGAACAAAAT
ATTAATGAGGCTATGAGAGTCCATTGAAAAGATGATGAGAAATTCACAGAAGATATCATGTCTTTG
TCCACCAAGGGGACTACATCAATCTACAAACCAAGTCCAGCTGGTCTGCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001135662
Insert Size:	612 bp
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).



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<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001135662.1</a>
<b>RefSeq Size:</b>	3223 bp
<b>RefSeq ORF:</b>	612 bp
<b>Locus ID:</b>	8934
<b>UniProt ID:</b>	<a href="#">O14966</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	23.2 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks a segment in the 5' UTR, as compared to variant 1. Variants 1 and 2 encode the same isoform (1).</p>