

## Product datasheet for **SC108613**

### **RAB1B (NM\_030981) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB1B (NM_030981) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB1B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_030981 edited

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ATGAACCCGAATATGACTACCTGTTTAAAGCTGCTTTTGATTGGCGACTCAGGCGTGGGC
AAGTCATGCCTGCTCCTGCGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGCACC
ATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGGCAAAACTATCAAACCTCAG
ATCTGGGACACAGCGGGCCAGGAACGGTCCGGACCATCACTTCCAGCTACTACCGGGGG
GCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCCTACGCCAACGTGAAG
CAGTGGCTGCAGGAGATTGACCGCTATGCCAGCGAGAACGTCAATAAGCTCCTGGTGGGC
AACAAAGAGCGACCTCACCACCAAGAAGGTGGTGGACAACACCACAGCCAAGGAGTTTGA
GACTCTCTGGGCATCCCCTTCTTGGAGACGAGCGCCAAGAATGCCACCAATGTCGAGCAG
GCGTTCATGACCATGGCTGCTGAAATCAAAAAGCGGATGGGGCCTGGAGCAGCCTCTGGG
GGCGAGCGGCCAATCTCAAGATCGACAGCACCCCTGCAAAGCCGGCTGGCGGTGGCTGT
TGCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_030981 unedited</p> <pre>GCACATTTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGAGAAGAGTTTG CGCCTGCGCGTCGCGGGCGGGCCCTCTGGGGCGGAGCGGCCACCATCTTGGAACGGGAGG CGGAGCAGAGTCGACTGGGAGCGACCGAGCGGGCCGCGCCGCCATGAACCCCGAAT ATGACTACCTGTTAAGCTGCTTTTATTGGCGACTCAGGCGTGGGCAAGTCATGCCTGC TCCTGCGGTTTGTGATGACACGTACACAGAGAGCTACATCAGCACCATCGGGGTGGACT TCAAGATCCGAACCATCGAGCTGGATGGCAAACTATCAAACCTCAGATCTGGGACACAG CGGGCCAGGAACGGTTCCGGACCATCACTTCCAGCTACTACCGGGGGGCTCATGGCATCA TCGTGGTGTATGACGTCCTGACAGGAATCCTACGCCAACGTGAAGCAGTGGCTGCAGG AGATTGACCGCTATGCCAGCGAGAACGTCAATAAGCTCCTGGTGGGCAACAAGAGCGACC TCACCACCAAGAAGTGGTGGACAACACCACAGCCAAGGAGTTTGCAGACTCTCTGGGCA TCCCTTCTTGGAGACGAGCGCCAAGAATGCCACCAATGTCGAGCAGGCGTCCATGACCA TGGGTGCTGAAATCAAAAAGCGATGGGGCCCTGGAGCAGCCCTCTGGGGCGAGCGGCCCC ATCTCAAGATCGACAGCACCCCTGCCAAAACGGTGGCGGTGGCTGTTGCTANGAGGGGC ACATGGAGTGGGACAAGAGGGGACCCCTCTCCANAGATGTTCTGTNAGGGGCAGAAAGGA CCTCCCTCTCTCTCTGGGGCATTGATCTGGGCTTTGGGGGGCTGGGCTCCCATTC CTTTTGCCT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_030981 unedited</p> <pre>GAAACCCTCAGCTCACCCGTGGGGCCAATGGNAAATTTATTAATTTTTTTGTCTTTTC CATCTTTCCCCAGTGGCTTTTCTTGCAAAATGCCTGACATGACACCAGAGGGGAACCTG GGAGCGGGGGGCACCCCAAGGGGGCAGCCAGGGACTTAAATACAAGCTGGAGGGCAGGG CACAGTGGGACAGGCAAGAGACAGCACAGGGACATGGCTTCTCAGGGAGACCAAGAC TTGCTTTCTTGCAGGAAGCAGTGTGCCAGAGGGCAGGGGACTAGGATCCTGGGTGCAGA GTGGGTGAGCAGAGAGGCCCAATCCTGGATGGAACCCACATTCACCAGAGAAGTAGCG GCAGGGGATGAGGGCTTCCCTGGTGGGCTCCAGAGACGAGTGGGGAGTGAAGCAGATG TGCTACCTTGGGAAAGGGAGGAGTGCTAGCAGAGTGAAGGTTAAGGCTGGTGCACG CTCTGGCACGGTGGGCTTCCGCTCCGCTGACATGGGGACAAAGGGGCACGGTGGGCA GGCAGCGCATGGGTCTGTCTCTGGCAGGGCAGAGGGCGGCAGGAGCAGACTCCCTCCAGG CTCAAGACACAGGCCAGCACTGCTACCCGCCACCCGCCCTAGATATACTCAGATCCCA CCGCAGCTGGACGGCTCGAGCTGGGAGTGTACGAATGGACATGACGCATTGNGGAGAGGA AAGGTGGGCTGTGGGCCCTGTGGCCTCCATGCCCTGTCTGAGTCCAGCCCAGGGCCC TGGATCCCAGTTCTGGATCCCCTGGCACATTCCTCGCCCTGGGCACTGACTGCAACCAG GGCAGTAAAAGCGCGGGAGAACCTAATTCTTCGGCAGACAGCAGGATAAGAAGAGAGACC CATGCAGATCATGCGGTGGGAGTACCAGCAAACCCCTTCAAAAAGGTGGAGGGGATT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_030981
<b>Insert Size:</b>	2110 bp
<b>OTI Disclaimer:</b>	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).
<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_030981.1</a> , <a href="#">NP_112243.1</a>
<b>RefSeq Size:</b>	1985 bp
<b>RefSeq ORF:</b>	606 bp
<b>Locus ID:</b>	81876
<b>UniProt ID:</b>	<a href="#">Q9H0U4</a>
<b>Cytogenetics:</b>	11q13.2
<b>Domains:</b>	ras, RAN, RAS, RHO, RAB, ARF
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	Members of the RAB protein family, such as RAB1B, are low molecular mass monomeric GTPases localized on the cytoplasmic surfaces of distinct membrane-bound organelles. RAB1B functions in the early secretory pathway and is essential for vesicle transport between the endoplasmic reticulum (ER) and Golgi (Chen et al., 1997 [PubMed 9030196]; Alvarez et al., 2003 [PubMed 12802079]).[supplied by OMIM, Jan 2009]