

Product datasheet for **SC118356**

RAB13 (NM_002870) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB13 (NM_002870) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB13
Synonyms:	GIG4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118356 sequence for NM_002870 edited (data generated by NextGen Sequencing)

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ATGGCCAAAGCCTACGACCACCTCTTCAAGTTGCTGCTGATCGGGGACTCGGGGGTGGGC
AAGACTTGTCTGATCATTTCGCTTTGCAGAGGACAACCTCAACAACACTTACATCTCCACC
ATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAATACTAA
GTCTGGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGA
GCCATGGGCATTATCCTAGTATACGACATCACGGATGAGAAATCTTTCGAGAATATTCAG
AACTGGATGAAAAGCATCAAGGAGAATGCCTCGGCTGGGGTGGAGCGCCTCTTGCTGGGG
AACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCGATAAGTTGGCT
CGAGAGCATGGAATCCGATTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAG
GCTTTTAGTTCCCTGGCCCGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGGAAAC
GGCAACAAGCCTCCCAGTACTGACCTGAAAACCTTGTGACAAGAAGAACCAACAAGTGC
TCCTGGGCTGA
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Clone variation with respect to NM_002870.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002870 unedited NTTGCGGATATTTGTATACGACTTCACTATAGGGCGGCCGCAATTCGCACCAGGTGCCG CTCTGTTTGCCAACCGTCCAGTCCCGCCTACCAGTGCCGGGCGCTCCCCACCCCTCCCC GGCTCCCCCGGTGTCGCCATGGCCAAAGCCTACGACCACCTCTCAAGTTGCTGCTGAT CGGGGACTCGGGGTGGCAAGACTTGTCTGATCATTGCTTTGCAGAGGACAACCTCAA CAACACTTACATCTCCACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGG GAAGAAGATCAAACCTACAAGTCTGGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAAC TACTGCCACTACCGTGGAGCCATGGGCATTATCCTAGTATACGACATCACGGATGAGAA ATCTTTTCGAGAATATTCAGAAGTGGATGAAAAGCATCAAGGAGAATGCCTCGGCTGGGGT GGAGCGCCTCTTGTGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGA GCAGGCCGATAAGTTGGCTCGAGAGCATGGAATCCGATTTTTCGAAACTAGTGCTAAATC CAGTATGAATGTGGATGAGGCTTTAGTTCCTGGCCCGACATCTTGCTCAAGTCACGA GGCCCGGAGATACAGAAACGGGAACAAGCCCTCCAGTACTGACCTGAAACTTGGGACAA GACAAACACCAACCAAGGGCCCCCTTGGCCTTGGGGACCTTTTCTTGCCCTCCCCACCC CGGAAAGCTTACCCCTGGGGGGGAACAAACCCCAAGGGGGATGGACCCGGGGGAAAAAA AAACCAGAGGGTCTTGGGGGGGCCACCACCTCTCCGGCTCCACGAAATTGGGGGCGCAA ACGGCGCAAACGGGCGATACCCCCAGCGGGAACAGAGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002870 unedited NGCGCTTAATACCATGNNANGNACCTGNACAAGTGACAGNACAGNAGCAAATTCCTAG TGTAGTCCGAGTAGCCTTTTGCAGGACCCTAAAACCTGATCTAGTAACAGAATAAATC AGTGATTTACATTTATGTTTGGCCTGAAAACCCAGGTAAGGTCTGAAGCCTGAGGCATC TCTCCTTCTTTCTCCTCCCTCTTCTTCTACCTCCTTGCCTTTTCTCACTTCTCAGGG GGGGGGCTCTCCCTTCTCCCTTCTCTCTTCTTTTTTCTTCTGCTTTTCCCTTT TCTCCTTTTTCTCCTCATTCTCTTTACCATCTACCTATGTGACCCCTCAAGCCCCCTG TTTTTCTNCCCTGCTCACTCTCTGCGNTGTTCCCTCACGTTACCCTCCGGGGTGG GGACGCCCCCACGTCCTCCCTCCAGGGCGCACTTCTCCGTCTTCCCTCTCCCCCTTTT CCTCCCTTTTCCAGTCCCCTTGCCCTCCCTTTCTTCCGCCCCCTTACTCTCCTCCCTT TCCCCTCATGTTTCTTTTTTTTCCCTCCTTCCCTTTTCCCTCTCCCTCTCCCTTCCC CTCTCCCTCCCCCTTTTCCCTCCCTTCCCTCCCTTCCCTCCCTCCCTTCCCTTCC CCTTTTCCCTTTCCCTTCCCTTCCCTCCCTCCCTCCCTTCCCTTCCCTTCCCTTCC TTTCTCTTTTTCCCTTCCCTCCCTCCCTTTTTCCCTTTTTCCCTTCCCTTCCCTT CATTTCTTTATCCCCCTTTCCCTCCCGCTCCTTTTTCTTTTCCCTTTCCCCCTCCTT ATCCCCCTTCTTTTCCGTTTCCCTTTCCCCCCCCCTTTCTCCTCCTTTCCCT CCTCACCCCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002870
Insert Size:	1140 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).
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:	<ol style="list-style-type: none">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_002870.2 , NP_002861.1
RefSeq Size:	1211 bp
RefSeq ORF:	612 bp
Locus ID:	5872
UniProt ID:	P51153
Cytogenetics:	1q21.3
Domains:	ras, RAN, RAS, RHO, RAB, ARF
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction
Gene Summary:	<p>This gene is a member of the Rab family of small G proteins and plays a role in regulating membrane trafficking between trans-Golgi network (TGN) and recycling endosomes (RE). The encoded protein is involved in the assembly of tight junctions, which are components of the apical junctional complex (AJC) of epithelial cells. The AJC plays a role in forming a barrier between luminal contents and the underlying tissue. Additional functions associated with the protein include endocytic recycling of occludin, regulation of epithelial cell scattering, neuronal regeneration and regulation of neurite outgrowth. Alternately spliced transcript variants have been observed for this gene. A pseudogene associated with this gene is located on chromosome 12. [provided by RefSeq, Jan 2013]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>