

Product datasheet for **SC106979**

RAB7B (NM_177403) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB7B (NM_177403) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB7B
Synonyms:	RAB7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106979 sequence for NM_177403 edited (data generated by NextGen Sequencing) ATGAATCCCCGGAAGAAGGTGGACCTGAAACTCATTATCGTCGGAGCCATTGGTGTGGGA AAGACCTCCCTCCTTCACCAATATGTGCACAAGACGTTTTATGAGGAATACCAGACCACA CTGGGGGCCAGCATCCTCTCCAAGATTATCATATTGGGTGACACAACCTTGAAGTTACAG ATCTGGGACACGGGCGGTGAGGAGCGGTTCCGCTCCATGGTGTCCACGTTCTACAAGGGC TCCGATGGCTGCATCCTAGCTTTTGATGTCAACGACCTGGAGTCTTTGAAGCCCTGGAT ATCTGGCGGGGTGATGTCCTGGCCAAGATTGTCCCATGGAGCAGTCCTACCCCATGGTG TTGTTGGGGAACAAGATCGATCTGGCAGACCGGAAGGTACCCAGGAAGTAGCTCAAGGC TGGTGTAGAGAGAAAGATATTCCTTACTTTGAAGTCAGTGCCAAGAATGACATCAATGTG GTGCAAGCGTTTGAGATGCTGGCCAGTAGGGCTCTGTCGAGGTACCAGAGCATCTTAGAA AATCACCTCACAGAATCCATCAAGCTCTGCCAGACCAGTCAAGGAGCAGATGCTGCTGA Clone variation with respect to NM_177403.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_177403 unedited <pre> NGTTCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGAGCCTCTTCC CTGGCCCTGCTGAGACCCTGCTCTAAGAAGAGACCACCAGACTGAGAGAGGACTCCCAGC TGCCCTCAGAGCGGAGGCCGAGTGCTGCACAGCCACAGCTGCTCTGAAGCCCTTCCATGA ATCCCCGAAGAAGGTGNNGACCTGAACTCATTATCGTCGGAGCCATTGGTGTGGGAAA GACCTCCCTCCTTACCAATATGTGCACAAGACGTTTTATGAGGAATACCAGACCACACT GGGGGCCAGCATCCTCTCCAAGATTATCATATTGGGTGACACAACCTTTGAAGTTACAGAT CTGGGACACGGGCGGTGAGGAGCGGTTCCGCTCCATGGTGTCCAGTTCTACAAGGGCTC CGATGGCTGCATCCTAGCTTTTGTATGTCACCGACCTGGAGTCTTTTGAAGCCCTGGATAT CTGGCGGGGTGATGTCCTGGCCAAGATTGTCCCATGGAGCAGTCTACCCATGGTGTT GTTGGGGAACAAGATCGATCTGGCAGACCGGAAGGTACCCAGGAAGTAGCTCAAGGCTG GTGTAGAGAGAAAGATATTCCTTACTTTGAAGTCAGTGCCAAGAATGACATCAATGGT GCAAGCGTTTGAGATGCTGGCCAGTAGGGCTCTGTGAGGTACCAGAGCATCTTAGAAAA TCACCTCAGAGATCCATCAAGCTCTCGCCAGACCAGTCAGGNAGCAGATGCTGTGACC TCCAGACGCTGCTCTGGAAGCCCANACAGAGCCTGCCCCGAGCCTGGTCACCCCCAGC TTGAGAACAGGTGACCATNCCNCTNCAGCCNACTGNCTGNCCNAGCCAGGNNAGGGG GCCTAAGCTCTGNCGCAGAGCCCTTGNACCTGNTGCTGGCCCANAGTCAGAGG </pre>
Restriction Sites:	ECORI-NOT
ACCN:	NM_177403
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:	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:	<u>NM_177403.3</u> , <u>NP_796377.2</u>
RefSeq Size:	2330 bp
RefSeq ORF:	600 bp
Locus ID:	338382
UniProt ID:	<u>Q96AH8</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome

Gene Summary:

Controls vesicular trafficking from endosomes to the trans-Golgi network (TGN). Acts as a negative regulator of TLR9 signaling and can suppress TLR9-triggered TNFA, IL6, and IFNB production in macrophages by promoting TLR9 lysosomal degradation. Also negatively regulates TLR4 signaling in macrophages by promoting lysosomal degradation of TLR4. Promotes megakaryocytic differentiation by increasing NF-kappa-B-dependent IL6 production and subsequently enhancing the association of STAT3 with GATA1. Not involved in the regulation of the EGF- and EGFR degradation pathway.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.