

Product datasheet for **SC317349**

RAB12 (NM_001025300) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB12 (NM_001025300) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001025300 edited
 GCTGCCGCTACTGCGGAGTAGCTGCTTCCCTTCCTCTCTCCCGCGCGGCGGCGGCAG
 CGGCGGAGGAGGAGGAGGAGGGGACCCGGGCGCAGAGAGCCGGCCGGCGGCAGTTGCA
 GCGCGGAGCCACGGGCCGCCGGGGCCGCTCCAGCGGGCGGAAGCCGAGCCCGGGGCCGA
 CCCCCCGCGCGCGGCGGAGGCGGAGGGGGCGCCGGGGCCCGGGCGCGCAGCCGGGGGGC
 GGGCGGCGGCGGCGGCGGCGGCGGAGCCGCGGAGCCGATGCGTGTATGGATCCGGGCCCGC
 GCTGCAGAGGCGGCGGCGGCGGCGGCGGCTCTGGGCGCGGGCTCCCGCGCTGTGCGG
 CGGCCAGGGCCGCGGAGGAAGCAGCCCCAGCCGGCCGACTTCAAGTTGCAGGTCAT
 CATTATCGGCTCCCGCGGCGTGGCAAGACCAGCCTGATGGAGCGCTTACCGACGACAC
 CTTCTGCGAGGCCTGCAAGTCCACCGTGGGTGTTGACTTCAAAATCAAACTGTAGAGCT
 AAGAGGAAAGAAAATTAGATTACAGATCTGGGACACAGCAGGTCAGGAGAGATTCAACAG
 CATTACCTCAGCTTATTACAGAAGTGCCAAGGGGATCATATTAGTATATGATATCACTAA
 GAAGGAGACATTTGATGATTTGCCGAAATGGATGAAGATGATTGATAAGTATGCTTCAGA
 AGATGCAGAGCTTCTTCTAGTTGAAAATAAGTTGGACTGTGAAACGGACAGAGAAATCAC
 CAGGCAGCAGGGGAAAAGTTTGCACAGCAGATCACTGGGATGCGGTTCTGTGAAGCAAG
 TGCCAAGGATAACTTCAATGTGGACGAGATATTTTTGAAACTTGTGATGACATTCTGAA
 AAAGATGCCTCTGGATATTTAAGGAATGAGTTGTCCAATAGTATCCTGTGCTTACAACC
 AGAGCCTGAGATACCGCCAGAAGTGCCTCCACCAAGACCACATGTCCGATGCTGTTGATT
 TCCTACTTTGGAGACAAAGTGGAAATGATTCTGGAAAGGGGAAAAAACGTTCTATTCTG
 CACTACAATCATTTTGACAATTTCTTTTCGCACTTTGTAATCCAAGTCAGAGCTATACAC
 TAACCTGTAATATGCATATATGCAATCCTGGGTAAGTTTTGGTTATAAGTTACCTATTT
 CCCTCAAATTTATATTTTATTTCATTACCTACCCAGTGTCTAGTGTACATACACTGGGAAA
 CCTAGTACTTCTAATATGAAGAATGGGAGAAATGAAAGTATAATGTTTTCTTGAATAAA
 TAATATAATTGTCTTATTAATTATATTATGAGGACAGAAGATATTCTGATAAGAGAGAA
 CGTGGTGTCTTGTCTTACCGTTTTAAAGAAAATTTGTAATAACTAAAGACTTTTTGAAAAAA
 AGCTATCTTAAGTGTCTTTTTCTTTATTTACAAGACATTTCCCCAGTGGTAGCATCTGAA
 GTATTGGAGTGTCTGCCACGAAGCAAAGCTCCATTATGGCCGTCATGGAAGTTATT
 TATTAATGTTACATAATGGTAGAATATTACTAGTTAGAGGGTTGGATTTGACTTGGTCT
 AAGGCCACAGAATCTCTCTCATGGCTTCCCTAAGGGATGTACCTTTATGCTTTTAAAGAACT
 ACAAGATTCAATAAAGAAAGAAATGTTTTTGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA
 AAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001025300
- Insert Size:** 1800 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001025300.2.
- 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_001025300.2](#), [NP_001020471.2](#)

RefSeq Size: 2138 bp

RefSeq ORF: 735 bp

Locus ID: 201475

UniProt ID: [Q6IQ22](#)

Cytogenetics: 18p11.22

Gene Summary: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab may play a role in protein transport from recycling endosomes to lysosomes regulating, for instance, the degradation of the transferrin receptor. Involved in autophagy (By similarity).[UniProtKB/Swiss-Prot Function]