

Product datasheet for **SC333564**

RAB43 (NM_001204888) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB43 (NM_001204888) Human Untagged Clone
Tag: Tag Free
Symbol: RAB43
Synonyms: RAB11B; RAB41
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC333564 representing NM_001204888.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAGGGCCGGGCCAGGCCCGGGGACCCGGACGAGCAGTACGATTTCTGTTCAGCTGGTGTCTG
GTGGGCGACGCAAGCGTGGGCAAGACGTGCGTGGTGCAGCGCTTCAAGACCGCGCCTTCTCGGAGCGC
CAGGGAAGCACCATCGGCGTCGACTTCACCATGAAGACGCTGGAGATCCAGGCTGCAGATCTGGGACAC
GGCCGGCCAGGAGCGGTTCCGCACCATACCCAGAGCTACTACCGCAGTGCCAATGGGGCCATCCTTGC
CTACGACATACCAAGAGGAGCTCCTTCTGTCGGTGCCTCACTGGATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001204888

Insert Size: 327 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:

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_001204888.1](#)

RefSeq Size: 4484 bp

RefSeq ORF: 327 bp

Locus ID: 339122

Cytogenetics: 3q21.3

Protein Families: Druggable Genome

MW: 11.6 kDa

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. The low intrinsic GTPase activity of RAB43 is activated by USP6NL. Involved in retrograde transport from the endocytic pathway to the Golgi apparatus. Involved in the transport of Shiga toxin from early and recycling endosomes to the trans-Golgi network. Required for the structural integrity of the Golgi complex. Plays a role in the maturation of phagosomes that engulf pathogens, such as *S.aureus* and *M.tuberculosis*. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (7) uses an alternate splice site that causes a frameshift in the central and 3' coding regions, compared to variant 1. The encoded isoform (c) has a distinct and shorter C-terminus, compared to 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.