

Product datasheet for **RG217900**

RAB27A (NM_183234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB27A (NM_183234) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAB27A
Synonyms: GS2; HsT18676; RAB27; RAM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217900 representing NM_183234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGATGGAGATTATGATTACCTCATCAAGTTTTAGCTTTGGGAGACTCTGGTGTAGGAAGACCA
GTGTACTTTACCAATATACAGATGGTAAATTTAACTCAAATTTATCACAAACAGTGGCATTGATTTGAG
GGAAAAAAGAGTGGTGTACAGAGCCAGTGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCCACCTG
CAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTGATCTGACAAATGAGCAAAGTTTCTCAATGTCAGAACTGGATAAGCCAGCT
ACAGATGCATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGAAACAAGAGTGATCTGGAGGACCAG
AGAGTAGTGAAAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAAACTAGTG
CTGCCAATGGGACAAACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACG
GTGTGTGGACAAGTCCTGGATTCTGAAGGAGTGGTGGATCAAATGGTCATGCCTCTACGGATCAGTTA
AGTGAAGAAAAGGAGAAAAGGGCATGTGGCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217900 representing NM_183234
 Red=Cloning site Green=Tags(s)

MSDGDYDYLKFLALGDSGVGKTSVLYQYTDGKFNKSFITTVGIDFREKRVVYRASGPDGATGRGQRIHL
 QLWDTAGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWI SQLQMHAYCENPDIVLCGNKSDLEDQ
 RVVKEEEAIALAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHASTDQL
 SEEKEKGACGC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183234

ORF Size: 663 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_183234.2](#)

RefSeq Size: 2812 bp

RefSeq ORF: 666 bp

Locus ID: 5873

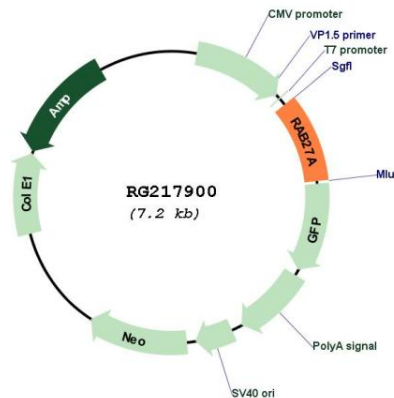
UniProt ID: [P51159](#)

Cytogenetics: 15q21.3

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene belongs to the small GTPase superfamily, Rab family. The protein is membrane-bound and may be involved in protein transport and small GTPase mediated signal transduction. Mutations in this gene are associated with Griscelli syndrome type 2. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217900