

Product datasheet for **RG219810**

RAB27A (NM_183235) Human Tagged ORF Clone

Product data:

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|---------------------------|-----------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | RAB27A (NM_183235) 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: | >RG219810 representing NM_183235 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGATGGAGATTATGATTACCTCATCAAGTTTTAGCTTTGGGAGACTCTGGTGTAGGAAGACCA
GTGTACTTTACCAATATACAGATGGTAAATTTAACTCAAATTTATCACAAAGTGGCATTGATTTTCAG
GGAAAAAAGAGTGGTGTACAGAGCCAGTGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCCACCTG
CAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTGATCTGACAAATGAGCAAAGTTTCTCAATGTCAGAACTGGATAAGCCAGCT
ACAGATGCATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGAAACAAGAGTGATCTGGAGGACCAG
AGAGTAGTGAAAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAAACTAGTG
CTGCCAATGGGACAAACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACG
GTGTGTGGACAAGTCCTGGATTCTGAAGGAGTGGTGGATCAAATGGTCATGCCTCTACGGATCAGTTA
AGTGAAGAAAAGGAGAAAAGGGCATGTGGCTGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219810 representing NM_183235
 Red=Cloning site Green=Tags(s)

MSDGDYDYLKFLALGDSGVGKTSVLYQYTDGKFNKSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHL
 QLWDTAGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWI SQLQMHAYCENPDIVLCGNKSDLEDQ
 RVVKEEEAIALAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRVSNGHASTDQL
 SEEKEKGACGC

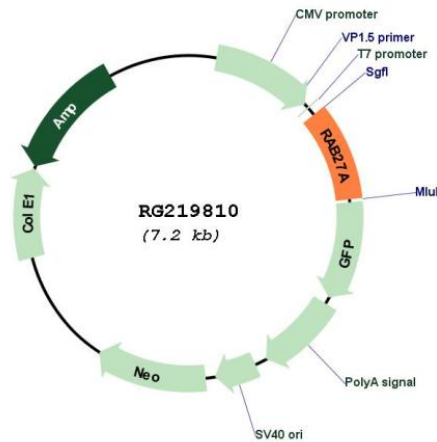
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_183235

ORF Size: 663 bp

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| 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: | <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_183235.3 |
| RefSeq Size: | 2809 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] |