

Product datasheet for **RG223511**

RAB27A (NM_183236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB27A (NM_183236) 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:	>RG223511 representing NM_183236 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGATGGAGATTATGATTACCTCATCAAGTTTTAGCTTTGGGAGACTCTGGTGTAGGAAGACCA
GTGTACTTTACCAATATACAGATGGTAAATTTAACTCAAATTTATCACAAAGTGGCATTGATTTTCAG
GGAAAAAGAGTGGTGTACAGAGCCAGTGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCCACCTG
CAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTCTACTTTTTGATCTGACAAATGAGCAAAGTTTCTCAATGTCAGAACTGGATAAGCCAGCT
ACAGATGCATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGAAACAAGAGTGATCTGGAGGACCAG
AGAGTAGTGAAAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAAACTAGTG
CTGCCAATGGGACAAACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACG
GTGTGTGGACAAGTCCTGGATTCTGAAGGAGTGGTGCGATCAAATGGTCATGCCTCTACGGATCAGTTA
AGTGAAGAAAAGGAGAAAAGGGCATGTGGCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223511 representing NM_183236
 Red=Cloning site Green=Tags(s)

MSDGDYDYLKFLALGDSGVGKTSVLYQYTDGKFNKSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHL
 QLWDTAGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWI SQLQMHAYCENPDIVLCGNKSDLEDQ
 RVVKEEEAIALAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRVSNHGASTDQL
 SEEKEKGACGC

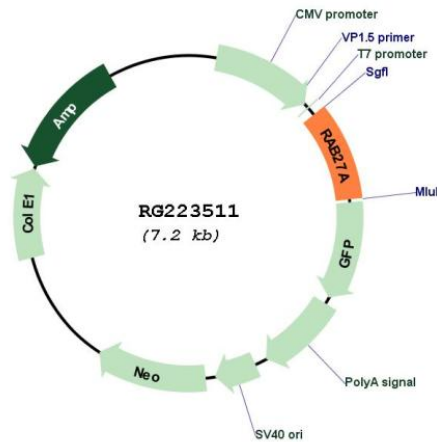
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_183236

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:	<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_183236.3
RefSeq Size:	2772 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]