

Product datasheet for **RG231992**

RAB18 (NM_001256415) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB18 (NM_001256415) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAB18
Synonyms: RAB18LI1; WARBM3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231992 representing NM_001256415
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAGGACGTGCTAACCACCCTGAAGATCCTCATCATCGGCGAGAGTGGGGTGGGCAAGTCCAGCC
TGCTCTTGAGGTTACAGATGATACGTTTGATCCAGAACTGCAGATACTGCTGGTCAAGAGAGGTTTAG
AACATTAACCTCCAGCTATTATAGAGGTGCACAGGGTGTATATTAGTTTATGATGTCACAAGAAGAGAT
ACATTTGTAAACTGGATAATTGGTTAAATGAATTGGAACATACTGTACAAGAAATGACATAGTAAACA
TGCTAGTTGGAATAAAATCGATAAGGAAAATCGTGAAGTCGATAGAAAATGAAGGCTGAAATTTGCACG
AAAGCATTCCATGTTATTTATAGAGGCAAGTGCAAAACCTGTGATGGTGTACAATGTGCCTTTGAAGAA
CTTGTTGAAAAGATCATTAGACCCCTGGACTGTGGGAAAGTGAGAACCAAGAAATAAAGGAGTCAAACCTGT
CACACAGGGAAGAAGGCCAAGGAGGAGGAGCCTGTGGTGGTTATTGCTCTGTGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231992 representing NM_001256415
Red=Cloning site Green=Tags(s)

MDEDVLTTLKILIIIGESGVGKSSLLLRFTDDTFDPELADTAGQERFRTLTPSYRGAQGVILVYDVTRRD
TFVKLDNWLNELETYCTRNDIVNMLVGNKIDKENREVDREGLKFARKHSMLEASAKTCDGVQCAFEE
LVEKIIQTPGLWESENQNKGVKLSHREEGQGGGACGGYCSVL

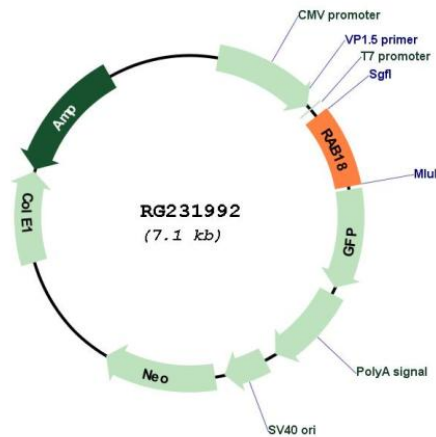
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001256415

ORF Size: 546 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:	<u>NM_001256415.2</u>
RefSeq Size:	4931 bp
RefSeq ORF:	549 bp
Locus ID:	22931
UniProt ID:	<u>Q9NP72</u>
Cytogenetics:	10p12.1
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a member of a family of Ras-related small GTPases that regulate membrane trafficking in organelles and transport vesicles. Knockdown studies in zebrafish suggest that this protein may have a role in eye and brain development. Mutations in this gene are associated with Warburg micro syndrome type 3. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]