

Product datasheet for **RG202832**

RAB14 (NM_016322) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB14 (NM_016322) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAB14
Synonyms:	FBP; RAB-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202832 representing NM_016322 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTGCACCATACAACACTCTTACATCTTTAAATATATTATTATTGGGGACATGGGAGTAGGAA
AATCTTGCTTGCTTCATCAATTTACAGAAAAAATTTATGGCTGATTGCCTCACACAATTGGTGTGA
ATTTGGTACAAGAATAATCGAAGTTAGTGGCCAAAAAATAAACTGCAGATTTGGGATACGGCAGGACAG
GAGCGATTTAGGGCTGTACACGGAGCTACTACAGAGGAGCTGCGGGAGCTCTTATGGTCTATGATATCA
CTAGAAGAAGTACATATAACCACTTAAGCAGCTGGTTGACAGATGCAAGGAATCTACCAATCCAAATAC
TGTAATAATTCTCATAGGAAATAAAGCAGATTTGGAGGCACAGAGAGATGTTACATATGAAGAAGCCAAA
CAGTTTGCTGAAGAAAATGGCTTATTGTTCTCGAAGCGAGTGCAAAAACGGGAGAGAATGTAGAAGATG
CCTTCCTTGAGGCTGCCAAGAAAATCTATCAGAACATTCAGGATGGAAGCTTGGATCTGAATGCTGCTGA
GTCTGGTGTACAACAAACCTTCAGCCCCGAGGGAGGCCGGCTAACCACTGAACCCCAACCCAGAGA
GAAGGCTGTGGCTGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202832 representing NM_016322
 Red=Cloning site Green=Tags(s)

MATAPYNYSYIFKYIIIGDMGVGKSCLLHQFTEKKFMADCPHTIGVEFGTRIIEVSGQKIKLQIWDTAGQ
 ERFRAVTRSYYRGAAGALMVYDITRRSTYNHLSSWLTARNLTNPNTVIIILIGNKADLEAQRDVTYEEAK
 QFAEENGLLFLEASAKTGENVEDAFLEAAKKIYQNIQDGLDLNAAESGVQHKPSAPQGGRLTSEPQPQR
 EGCGC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016322

ORF Size: 645 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.

RefSeq: [NM_016322.4](#)

RefSeq Size: 4106 bp

RefSeq ORF: 648 bp

Locus ID: 51552

UniProt ID: [P61106](#)

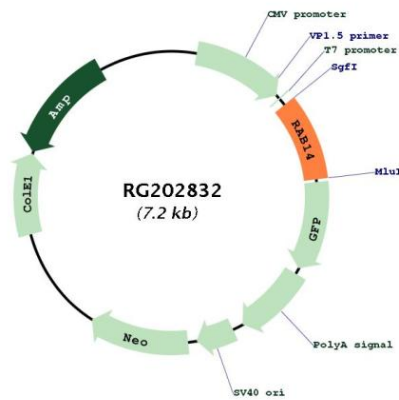
Cytogenetics: 9q33.2

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: RAB14 belongs to the large RAB family of low molecular mass GTPases that are involved in intracellular membrane trafficking. These proteins act as molecular switches that flip between an inactive GDP-bound state and an active GTP-bound state in which they recruit downstream effector proteins onto membranes (Junutula et al., 2004 [PubMed 15004230]). [supplied by OMIM, Mar 2009]

Product images:



Circular map for RG202832