

## **Product datasheet for RG202196**

## RAB38 (NM\_022337) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: TurboGFP

Symbol: RAB38

**Synonyms:** NY-MEL-1; rrGTPbp

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202196 representing NM\_022337

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCAGGCCCCGCACAAGGAGCACCTGTACAAGTTGCTGGTGATTGGCGACCTGGGCGTGGGGAAGACCA
GTATCATCAAGCGCTACGTGCACCAGAACTTCTCCTCGCACTACCGGGCCACAATCGGCGTGGACTTCGC
GCTCAAGGTGCTCCACTGGGACCCGGAGACTGTGGTGCGCCTGCAGCTCTGGGATATCGCAGGTCAAGAA
AGATTTGGAAACATGACGAGGGTCTATTACCGAGAAGCTATGGGTGCATTTATTGTCTTCGATGTCACCA
GGCCAGCCACATTTGAAGCAGTGGCAAAGTGGAAAAATGATTTGGACTCCAAGTTAAGTCTCCCTAATGG
CAAACCGGTTTCAGTGGTTTTTGTTGGCCAACAAATGTGACCAGGGGAAGGATGTGCTCATGAACAATGGC
CTCAAGATGGACCAGTTCTGCAAGGAGCACCGTTTCGTAGGATGGTTTGAAACATCAGCAAAGGAAAATA
TAAACATTGATGAAGCCTCCAGATGCCTGGTGAAACACATACTTGCAAAATGAGTGTGACCTAATGGAGTC
TATTGAGCCGGACGTCGTGAAGCCCCCATCTCACATCAACCAAGGTTGCCCAGCTGCTCTGGCTGTGCCAAA

TCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202196 representing NM\_022337

Red=Cloning site Green=Tags(s)

MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPETVVRLQLWDIAGQE RFGNMTRVYYREAMGAFIVFDVTRPATFEAVAKWKNDLDSKLSLPNGKPVSVVLLANKCDQGKDVLMNNG LKMDQFCKEHGFVGWFETSAKENINIDEASRCLVKHILANECDLMESIEPDVVKPHLTSTKVASCSGCAK

S

TRTRPLE - GFP Tag - V

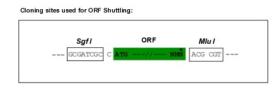


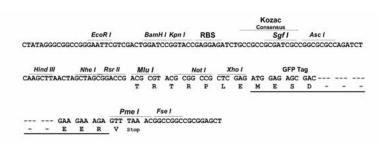
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_022337

ORF Size: 633 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:** <u>NM\_022337.1</u>, <u>NP\_071732.1</u>

## RAB38 (NM\_022337) Human Tagged ORF Clone | RG202196

RefSeq Size: 1412 bp

RefSeq ORF: 636 bp

**Locus ID:** 23682

**UniProt ID:** <u>P57729</u>

Cytogenetics: 11q14.2

**Domains:** ras, RAN, RAS, RHO, RAB

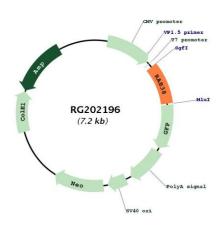
Protein Families: Druggable Genome

Gene Summary: May be involved in melanosomal transport and docking. Involved in the proper sorting of

TYRP1. Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with ANKRD27 and VAMP7 (By similarity). Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis (PubMed:21255211). Plays an important role in the control of melanin production and melanosome biogenesis (PubMed:23084991). In concert with RAB32, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to

melanosomes in melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for RG202196