

Product datasheet for **RG201555**

RAB13 (NM_002870) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB13 (NM_002870) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAB13
Synonyms: GIG4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201555 representing NM_002870
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAAGCCTACGACCACCTCTTCAAGTTGCTGCTGATCGGGGACTCGGGGTGGGCAAGACTTGTC
TGATCATTCGTTTGCAGAGGACAACCTCAACAACACTTACATCTCCACCATCGGAATTGATTTCAAGAT
CCGCACTGTGGATATAGAGGGGAAGAAGATCAAACAAGTCTGGACACGGCTGGCCAAGAGCGGTTCC
AAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAGTATACGACATCACGGATGAGA
AATCTTTTCGAGAATATTCAGAAGTGGATGAAAAGCATCAAGGAGAATGCCTCGGCTGGGGTGGAGCGCCT
CTTGCTGGGGAACAATGTGACATGGAGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCGATAAGTTGGCT
CGAGAGCATGGAATCCGATTTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAGCTTTTAGTT
CCCTGGCCCGGACATCTTGCTCAAGTCAGGAGCCGGAGATCAGGAAACGGCAACAAGCCTCCCAGTAC
TGACCTGAAAACCTGTGACAAGAAGAACCAACAAGTGCTCCCTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201555 representing NM_002870
Red=Cloning site Green=Tags(s)

MAKAYDHLFKLLLIIGDSGVGKTCIIIRFAEDNFNNTYISTIGIDFKIRTVDIEGKKIKLQVWDTAGQERF
KTITTAYYRGAMGIIIVYDITDEKSFENIQNMKSIKENASAGVERLLLGNKCDMEAKRKVQKEQADKLA
REHGIRFFETSAKSSMNVDFAFSSLARDILLKSGRRSGNGNKPSTDLKTCDDKNTNKCSLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_002870

ORF Size: 609 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_002870.5](#)

RefSeq Size: 1211 bp

RefSeq ORF: 612 bp

Locus ID: 5872

UniProt ID: [P51153](#)

Cytogenetics: 1q21.3

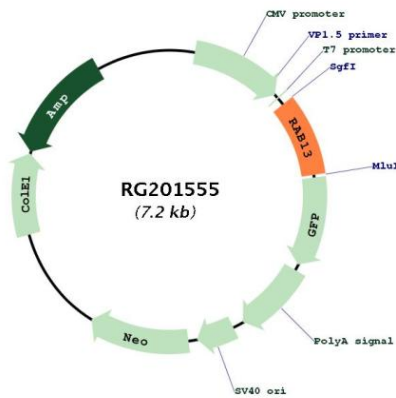
Domains: ras, RAN, RAS, RHO, RAB, ARF

Protein Families: Druggable Genome

Protein Pathways: Tight junction

Gene Summary: This gene is a member of the Rab family of small G proteins and plays a role in regulating membrane trafficking between trans-Golgi network (TGN) and recycling endosomes (RE). The encoded protein is involved in the assembly of tight junctions, which are components of the apical junctional complex (AJC) of epithelial cells. The AJC plays a role in forming a barrier between luminal contents and the underlying tissue. Additional functions associated with the protein include endocytic recycling of occludin, regulation of epithelial cell scattering, neuronal regeneration and regulation of neurite outgrowth. Alternately spliced transcript variants have been observed for this gene. A pseudogene associated with this gene is located on chromosome 12. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG201555