

Product datasheet for **RG221508**

RAB23 (NM_183227) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB23 (NM_183227) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAB23
Synonyms: HSPC137
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221508 representing NM_183227
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGAGGAAGATATGGAAGTCGCCATAAAGATGGTGGTTGTAGGGAATGGAGCAGTTGGAAAATCAA
GTATGATTCAGCGATATTGCAAAGGCATTTTTACAAAAGACTACAAGAAAACCATTGGAGTTGATTTTTT
GGAGCGACAAATTCAAGTTAATGATGAAGATGTCAGACTAATGTTATGGGACACTGCAGGTCAGGAGGAA
TTTGATGCAATTACAAAGCCTACTATCGAGGAGCCCAGGCTTGTGTCTCGTGTCTCTACCACAGATA
GGGAATCTTTGAAGCAGTTCCAGTTGGAGAGAGAAAGTAGTAGCCGAAGTGGGAGATATACCAACTGT
ACTTGTGCAAAAACAGATTGATCTTCTGGATGATTCTTGTATAAAGAATGAGGAAGCTGAGGCACCTGGCA
AAAAGGTTAAAGTTAAGATTCTACAGAACATCAGTGAAAGAAGATCTAAATGTGAATGAAGTTTTTAAAGT
ATTTGGCTGAAAAATACCTTCAGAAACTCAAACAACAAATAGCTGAGGATCCAGAACTAACGCATTCAAG
TAGTAAACAAGATTGGTGTCTTAAATACATCTGGTGAAGTCACTCCGGTCAGAAATCAGGTACCCCTCAAT
GGTGGAGATGTCATCAATCTTAGACCAACAAACAAAGGACCAAGAAAAACAGAAATCCTTTTAGCAGCT
GTAGCATACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221508 representing NM_183227
 Red=Cloning site Green=Tags(s)

MLEEDMEVAIKMVVVNGAVGKSSMIQRYCKGIFTKDYKKTIGVDFLERQIQVNDEDVRLMLWDTAGQEE
 FDAITKAYYRGAQACVLVFSTTDRESFEAVSSWREKVVAVVDIPTVLVQNKIDLLDDSCIKNEEAELA
 KRLKLRFYRTSVKEDLVNEVFKYLAEKYLQKLKQQAEDPELTHSSSNKIGVFNTSGGSHSGQNSGTLN
 GGDVINLRPNKQRTKKNRNPFSKCSIP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_183227

ORF Size: 711 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_183227.2](#)

RefSeq Size: 2623 bp

RefSeq ORF: 714 bp

Locus ID: 51715

UniProt ID: [Q9ULC3](#)

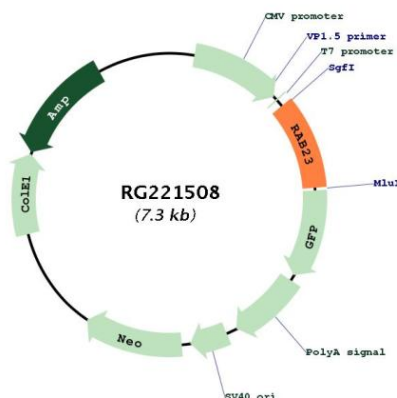
Cytogenetics: 6p12.1-p11.2

Protein Families: Druggable Genome

Protein Pathways: Hedgehog signaling pathway

Gene Summary: This gene encodes a small GTPase of the Ras superfamily. Rab proteins are involved in the regulation of diverse cellular functions associated with intracellular membrane trafficking, including autophagy and immune response to bacterial infection. The encoded protein may play a role in central nervous system development by antagonizing sonic hedgehog signaling. Disruption of this gene has been implicated in Carpenter syndrome as well as cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG221508