

## Product datasheet for **RG201922**

### **RAB23 (NM\_016277) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB23 (NM_016277) 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:	>RG201922 representing NM_016277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGAGGAAGATATGGAAGTCGCCATAAAGATGGTGGTTGTAGGGAATGGAGCAGTTGGAAAATCAA  
GTATGATTCAGCGATATTGCAAAGGCATTTTTACAAAAGACTACAAGAAAACCATTGGAGTTGATTTTTT  
GGAGCGACAAATTCAAGTTAATGATGAAGATGTCAGACTAATGTTATGGGACACTGCAGGTCAGGAGGAA  
TTTGATGCAATTACAAAGCCTACTATCGAGGAGCCCAGGCTTGTGTCTCGTGTCTCTACCACAGATA  
GGGAATCTTTGAAGCAGTTCCAGTTGGAGAGAGAAAGTAGTAGCCGAAGTGGGAGATATACCAACTGT  
ACTTGTGCAAAAACAGATTGATCTTCTGGATGATTCTTGTATAAAGAATGAGGAAGCTGAGGCACCTGGCA  
AAAAGGTTAAAGTTAAGATTCTACAGAACATCAGTGAAAGAAGATCTAAATGTGAATGAAGTTTTAAAGT  
ATTTGGCTGAAAAATACCTTCAGAACTCAAACAACAAATAGCTGAGGATCCAGAACTAACGCATTCAAG  
TAGTAAACAAGATTGGTGTCTTAAATACATCTGGTGAAGTCACTCCGGTCAGAAATCAGGTACCCCTCAAT  
GGTGGAGATGTCATCAATCTTAGACCAACAAACAAAGGACCAAGAAAAACAGAAATCCTTTTAGCAGCT  
GTAGCATACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201922 representing NM\_016277  
Red=Cloning site Green=Tags(s)

MLEEDMEVAIKMVVVNGAVGKSSMIQRYCKGIFTKDYKKTIGVDFLERQIQVNDEDVRLMLWDTAGQEE  
 FDAITKAYYRGAQACVLVFSTTDRESFEAVSSWREKVVAEVDIPTVLVQNKIDLLDDSCIKNEEAELA  
 KRLKLRFYRTSVKEDLVNEVFKYLAEKYLQKLKQQAEDPELTHSSSNKIGVFNTSGGSHSGQNSGLTN  
 GGDVINLRPNKQRTKKNRNPFSKCSIP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016277

**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\\_016277.5](#)

**RefSeq Size:** 3037 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 51715

**UniProt ID:** [Q9ULC3](#)

**Cytogenetics:** 6p12.1-p11.2

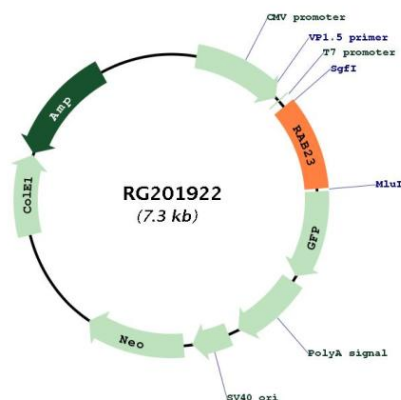
**Domains:** ras, RAN, RAS, RHO, RAB

**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 RG201922