

## Product datasheet for **RG202178**

### **RAB39B (NM\_171998) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB39B (NM_171998) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAB39B
Synonyms:	BGMR; MRX72; WSMN; WSN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202178 representing NM_171998 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCCATCTGGCTGTACCAGTTCGGCTCATTGTCATCGGGGATTCCACAGTGGGCAAGTCTGCC  
TGATCCGCCGCTCACCGAGGGTCGCTTGGCCAGTTTCTGACCCACCGTGGGGTGGATTTTTCTC  
CCGCTTGGTGGAGATCGAGCCAGGAAAACGCATCAAGCTCCAGATCTGGGATACCGGGTCAAGAGAG  
TTCAGATCCATCACTCGCGCTACTACAGAACTCAGTAGGTGGTCTTCTTATTTGACATTACCAACC  
GCAGGTCTTCCAGAATGCCATGAGTGGTTAGAAGAGACCAAAGTACACGTTTCAGCCCTACCAAATTGT  
ATTTGTTCTGGTGGGTCACAAGTGTGACCTGGATACACAGAGGCAAGTACTCGCCACGAGCCGAGAAA  
CTGGCTGCTGCATACGGCATGAAGTACATTGAAACGTCAGCCCGAGATGCCATTAATGTGGAGAAAAGCCT  
TCACAGACCTGACAAGAGACATATAGACTGGTTAAAAGGGGGGAGATTACAATCCAGGAGGGCTGGGA  
AGGGGTGAAGAGTGGATTTGTACCAATGTGGTCACTCTTCAGAAGAGGTTGTCAAATCAGAGAGGAGA  
TGTTTGTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202178 representing NM\_171998  
 Red=Cloning site Green=Tags(s)

MEAIWL YQFRLIVIGDSTVGKSLIRRFTEGRFAQVSDPTVGVDFFSRLVEIEPGKRIKLQIWDTAGQER  
 FRSITRAYRNSVGGLLLFDITNRRSFQNVHEWLEETKVHVQPYQIVFVLVGHKCDLDTQRQVTRHEAEK  
 LAAAYGMKYIETSARDAINVEKAFDLDLTRDIYELVKRGEITIQEGWEGVKSGFVPNVVHSSEEVKSER  
 CLC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_171998

**ORF Size:** 639 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:** [NM\\_171998.4](#)

**RefSeq Size:** 3499 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 116442

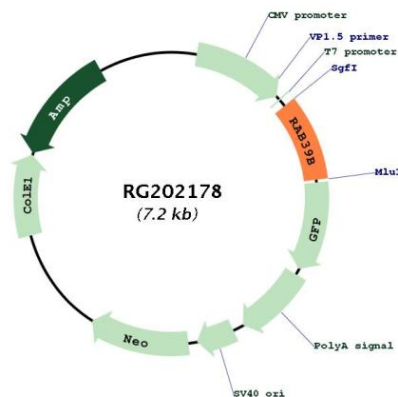
**UniProt ID:** [Q96DA2](#)

**Cytogenetics:** Xq28

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the Rab family of proteins. Rab proteins are small GTPases that are involved in vesicular trafficking. Mutations in this gene are associated with X-linked cognitive disability. [provided by RefSeq, Aug 2013]

## Product images:



Circular map for RG202178