

Product datasheet for **MG202204**

Rab8b (NM_173413) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab8b (NM_173413) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab8b
Synonyms: 5930437D16; D330025I23Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202204 representing NM_173413
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAAGACGTACGATTATCTGTTCAAGCTGCTGCTCATCGGCGACTCCGGCGTTGGCAAGACCTGCC
 TCCTGTTCCGCTTCTCAGAGGACGCCTTCAACACCACCTTTATCTCCACCATCGGAATTGATTTTAAAT
 CAGAACGATAGAACTCGACGGAAGAAAATTAACCTTCAGATATGGGACACGGCGGGCCAGGAAAGATTCC
 CGAACAATTACGACAGCATACTATAGAGGAGCCATGGGAATTATGCTGGTCTATGACATACCAATGAAA
 AATCCTTTGACAATATTAATAATTTGGATAAGAAACATTGAAGAGCACGCCTCTTCAGATGTTGAAAGAAT
 GATCCTGGGTAAACAATGTGATATGAACGACAAAAGACAAGTGTGAAAGAGAGAGGGGAGAAGTTAGCA
 ATTGACTATGGGATTAATTTTGGAGACAAGTCAAAAGTCGAGTACAAATGTAGAAGAGGCATTTTTTA
 CACTTGCACGGGATATAATGACAAAACCTCAACAGGAAAATGAACGACAGCAATTCATCAGGAGCAGGTGG
 GCCAGTGAAGATAACAGAGAGCCGGTCTAAGAAGACCAGTTTCTCCGCTGTTCTCTGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202204 representing NM_173413
 Red=Cloning site Green=Tags(s)

MAKTYDYLFKLLIGDSGVGKTCLLFRFSEDAFNNTTISTIGIDFKIRTIELDGKKIKLQIWDTAGQERF
 RTITTAYYRGAMGIMLVYDITNEKSFDNIKNWIRNIEEHASSDVERMILGNKCDMNDKRQVSKERGEKLA
 IDYGIKFLETSAKSSTNVEEAFFTLARDIMTKLNRKMNDNSNAGGPVKITESRSKKTSSFFRCSLL

TRTRPLE - GFP Tag - V

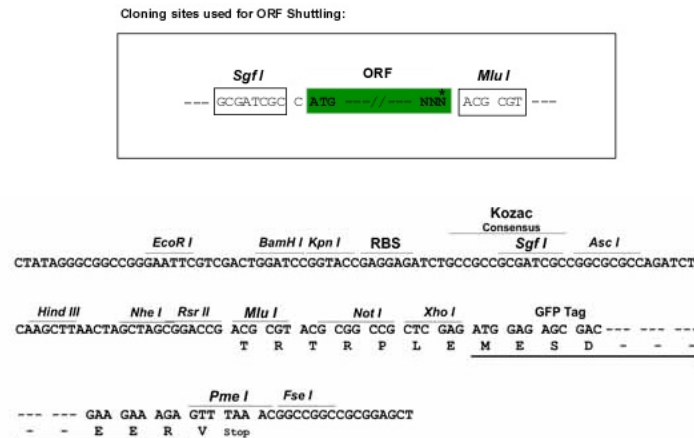
Chromatograms: https://cdn.origene.com/chromatograms/ja3036_a12.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173413

ORF Size: 621 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

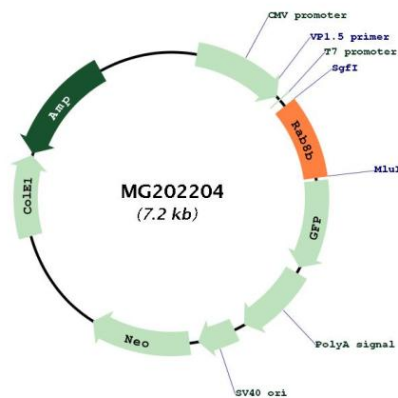
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_173413.3
RefSeq Size:	4751 bp
RefSeq ORF:	624 bp
Locus ID:	235442
UniProt ID:	P61028
Cytogenetics:	9 C
Gene Summary:	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab may be involved in polarized vesicular trafficking and neurotransmitter release. May participate in cell junction dynamics in Sertoli cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202204