

Product datasheet for **MG202439**

Rab11b (BC054753) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab11b (BC054753) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rab11b
Synonyms:	A730055L17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202439 representing BC054753 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACCCGGGACGACGAGTACGATTACCTATTCAAAGTGGTGCTTATTGGGGACTCAGGTGTAGGTA
AGAGCAACCTGCTGTACGCTTCACCAGAAACGAATTC AACCTAGAGAGCAAGAGTACCATCGGAGTGGA
GTTCCGCACTCGCAGCATT CAGGTGGACGGCAAGACCATCAAGGCTCAGATCTGGGACACTGCTGGCCAG
GAGCGCTACCGTGCCATTACCTCTGCGTACTACCGTGGTGCAGTGGTGCAGTCTGCTGGTATATGACATTG
CCAAGCACTTGACATATGAGAACGTGGAGCGCTGGCTGAAGGAGCTGCGGGATCATGCAGATAGCAACAT
TGTTCATCATGCTGGTGGCAACAAGAGTGACCTGCGCCACCTTCGGGCTGTGCCACTGATGAGGCCCGT
GCCTTTGCAGAAAAGAACAACCTTGCTCCTTCATTGAGACCTCAGCCTTGGATTCCACCAATGTAGAGGAAG
CATTCAAGAACATCCTCACAGAAATCTACCGTATTGTGTACAGAAAGCAAATCGCTGACCGTGCAGCCCA
CGATGAGTCCCCTGGCAACAACGTGGTGGACATCAGTGTGCCACCCACCACCGATGGACAGAGACCCAAAC
AAGCTGCAGTCTGCCAGAGCCTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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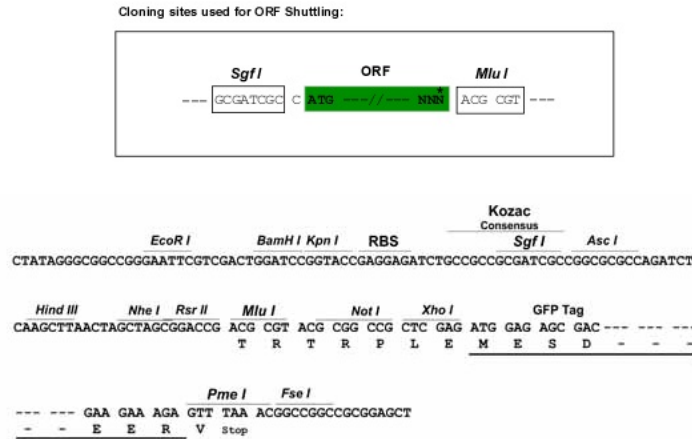
Protein Sequence: >MG202439 representing BC054753
 Red=Cloning site Green=Tags(s)

MGTRDDEYDYLKVVLLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRISIQVDGKTIKAQIWDTAGQ
 ERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVMLVGNKSDLRHLRAVPTDEAR
 AFAEKNNLSFIETSALDSTNVVEEAFKNILTEIYRIVSQKQIADRAAHDESPGNNVVDISVPPTTDGQRPN
 KLQCCQSL

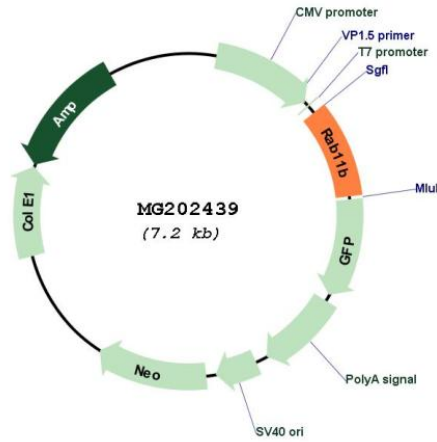
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC054753

ORF Size: 656 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:	<ol style="list-style-type: none">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:	BC054753 , AAH54753
RefSeq Size:	1788 bp
RefSeq ORF:	656 bp
Locus ID:	19326
Cytogenetics:	17 17.98 cM
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 set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. The small Rab GTPase RAB11B plays a role in endocytic recycling, regulating apical recycling of several transmembrane proteins including cystic fibrosis transmembrane conductance regulator/CFTR, epithelial sodium channel/ENaC, potassium voltage-gated channel, and voltage-dependent L-type calcium channel. May also regulate constitutive and regulated secretion, like insulin granule exocytosis. Required for melanosome transport and release from melanocytes. Also regulates V-ATPase intracellular transport in response to extracellular acidosis.[UniProtKB/Swiss-Prot Function]