

Product datasheet for **MG202203**

Rab8a (NM_023126) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab8a (NM_023126) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab8a
Synonyms: AA409338; Mel
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202203 representing NM_023126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGTAGGGAAGACCTGTG
 TCCTGTTCCGCTTCTCCGAGGACGCCTCAACTCCACATTCATCTCTACCATAGGAATTGACTTTAAAT
 TAGGACCATAGAGCTCGATGGCAAGAGGATTAAGTGCAGATATGGGACACGGCCGAGGACGGTTT
 CGAACAAATCACGACAGCCTACTACAGGGGTGCCATGGGTATCATGCTGGTCTACGACATTACCAATGAGA
 AGTCCTTTGACAACATCCGGAATTGGATTCGGAACATTGAAGAGCATGCCTCTGCAGACGTGGAGAAGAT
 GATACTGGGGAATAAGTGTGATGTGAATGACAAGAGACAGGTGTCCAAGGAACGGGGAGAAAAGCTGGCA
 CTCGACTATGGGATCAAGTTCATGGAGACCAGTGCAAAGGCCAACATTAATGTGGAGAATGCATTTTTCA
 CTCTTGCCAGGGATATCAAAGCAAAAATGGACAAAAAATGGAAGGGAACAGCCCGCAGGGGAGCAGCCA
 TGGAGTCAAGATCACAGTGGAGCAGCAGAAGAGGACCAGCTTCTCCGGTGCAGTCTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202203 representing NM_023126
 Red=Cloning site Green=Tags(s)

MAKTYDYLFKLLLIIGDSGVGKTCVLFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERF
 RTITTAYYRGAMGIMLVYDITNEKSFNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLA
 LDYGIKFMETSAKANINVENAFFTLARDIKAKMDKKLEGNPQGSSSHGKIVTVEQQKRTSFFRCSLL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



RefSeq Size: 2012 bp

RefSeq ORF: 624 bp

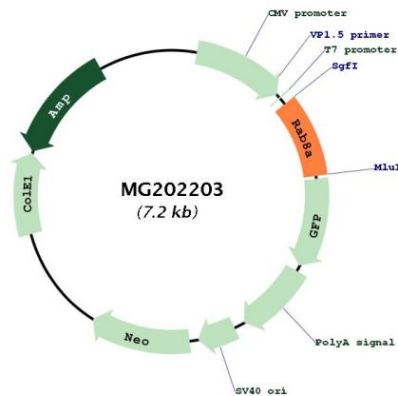
Locus ID: 17274

UniProt ID: [P55258](#)

Cytogenetics: 8 34.84 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 sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is involved in polarized vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B and RAB11A participates in epithelial cell polarization. Plays an important role in ciliogenesis (By similarity). Together with MICALL2, may also regulate adherens junction assembly (PubMed:18094055). May play a role in insulin-induced transport to the plasma membrane of the glucose transporter GLUT4 and therefore play a role in glucose homeostasis (By similarity). Involved in autophagy (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202203