

Product datasheet for MC208958

Rab8a (NM_023126) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab8a (NM_023126) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab8a
Synonyms:	AA409338; Mel
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208958 representing NM_023126 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGTAGGGAAGACCTGTG
 TCCTGTTCCGCTTCTCCGAGGACGCCTTCAACTCCACATTCATCTCTACCATAGGAATTGACTTTAAAT
 TAGGACCATAGAGCTCGATGGCAAGAGGATTAAGTGCAGATATGGGACACGGCCGGCCAGGAGCGGTTT
 CGAACAATCACGACAGCCTACTACAGGGGTGCCATGGGTATCATGCTGGTCTACGACATTACCAATGAGA
 AGTCCTTTGACAACATCCGGAATTGGATTGGAACATTGAAGAGCATGCCTCTGCAGACGTGGAGAAGAT
 GATACTGGGGAATAAGTGTGATGTGAATGACAAGAGACAGGTGTCCAAGGAACGGGGAGAAAAGCTGGCA
 CTCGACTATGGGATCAAGTTCATGGAGACCAGTGCAAAGGCCAACATCAATGTGGAGAATGCATTTTTCA
 CTCTTGCCAGGGATATCAAAGCAAAAATGGACAAAAATTTGAAGGGAACAGCCCGCAGGGGAGCAGCCA
 TGGAGTCAAGATCACAGTGGAGCAGCAGAAGAGGACCAGCTTCTCCGGTGCAGTCTCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_023126
Insert Size:	624 bp


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OTI Disclaimer:	<p>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.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_023126.2 , NP_075615.2
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]