

Product datasheet for MR202075

Rab13 (NM_026677) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

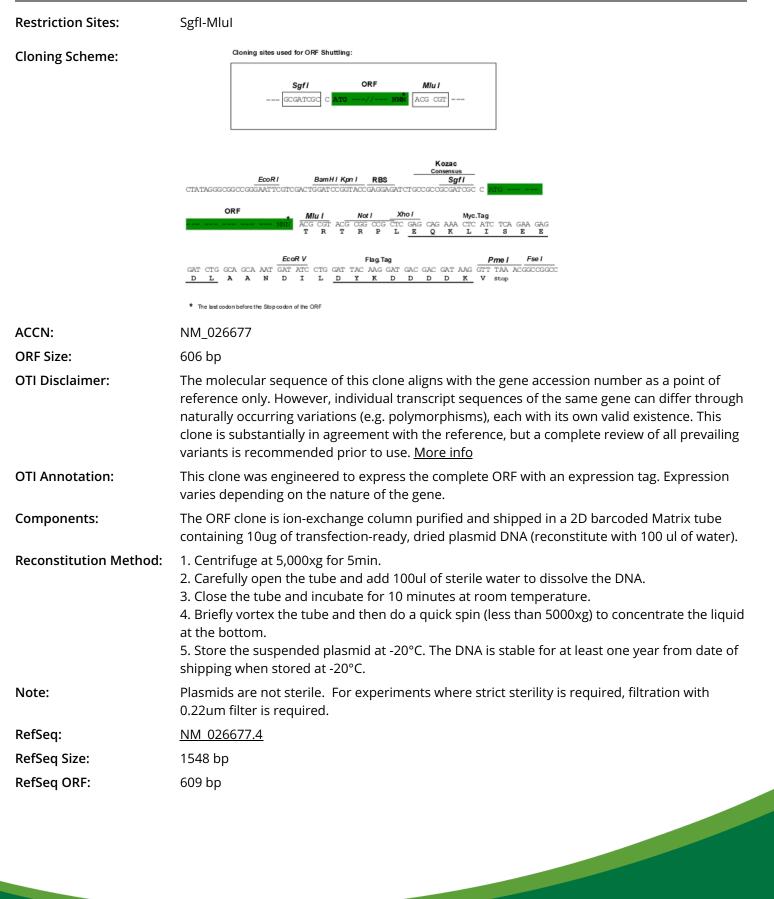
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Product Type:	Expression Plasmids
Product Name:	Rab13 (NM_026677) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab13
Synonyms:	0610007N03Rik; B230212B15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202075 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCCAAAGCCTACGACCACCTCTTCAAGTTGCTGCTCATCGGGGACTCGGGGGTGGGCAAGACTTGTC TGATCATTCGCTTTGCAGAGGACAACTTCAACAGCACTTACATCTCTACCATCGGAATTGATTTCAAGAT CCGAACCGTGGACATAGAGGGGAAGAGGATCAAACTGCAAGTGTGGGACACGGCTGGCCAAGAACGATTC AAGACAATAACTACCGCCTATTACCGTGGAGCCATGGGCATTATCCTCGTATATGACATCACAGATGAGA AATCCTTCGAGAATATTCAGAACTGGATGAAAAGCATCAAAGAGAATGCCTCTGCGGGAGTGGAGCGCCT CCTGCTGGGAAACAAGTGTGACATGGAGGCCAAGCGGCAGGTGCAGAGAGAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR202075 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MAKAYDHLFKLLLIGDSGVGKTCLIIRFAEDNFNSTYISTIGIDFKIRTVDIEGKRIKLQVWDTAGQERF KTITTAYYRGAMGIILVYDITDEKSFENIQNWMKSIKENASAGVERLLLGNKCDMEAKRQVQREQAEKLA REHRIRFFETSAKSSVNVDEAFSSLARDILLKTGGRRSGTNSKPSSTGLKTSDKKKNKCLLG
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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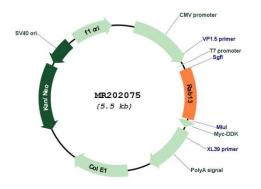
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	Rab13 (NM_026677) Mouse Tagged ORF Clone – MR202075
Locus ID:	68328
UniProt ID:	<u>Q9DD03</u>
Cytogenetics:	3 39.21 cM
MW:	22.8 kDa
Gene Summary:	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of 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 endocytic recycling and regulates the transport to the plasma membrane of transmembrane proteins like the tight junction protein OCLN/occludin. Thereby, it regulates the assembly and the activity of tight junctions. Moreover, it may also regulate tight junction assembly by activating the PKA signaling pathway and by reorganizing the actin cytoskeleton through the activation of the downstream effectors PRKACA and MICALL2 respectively. Through its role in tight junction assembly, may play a role in the establishment of Sertoli cell barrier. Plays also a role in angiogenesis through regulation of endothelial cells chemotaxis. Also involved in neurite outgrowth. Has also been proposed to play a role in post-Golgi membrane trafficking from the TGN to the recycling endosome. Finally, it has been involved in insulin-induced transport to the plasma membrane of the glucose transporter GLUT4 and therefore may play a role in glucose homeostasis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202075

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