Product datasheet for MC211331

Rab38 (NM_028238) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab38 (NM_028238) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab38
Synonyms:	2310011F14Rik; AU043391; cht
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211331 representing NM_028238 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGACACCTCACAAGGAGCACCTGTACAAGCTGCTGGTGATCGGCGACCTGGGTGTGGGCAAGACCA GCATTATCAAGCGCTATGTGCACCAAAACTTCTCCTCGCACTACCGGGCCACCATTGGTGTGGACTTCGC GCTGAAGGTGCTCCACTGGGACCCAGAGACGGTGGTGCGCTTGCAGCTCTGGGACATTGCTGGTCAAGAA AGATTTGGAAACATGACAAGAGTTTATTACCGGGAAGCTATGGGGGCATTTATTGTTTTTGATGTCACCA GACCAGCCACATTTGAAGCCGTGGCAAAGTGGAAAAATGATTTGGACTCAAAGTTAACGCTCCCTAATGG TAAGCCAGTGTCAGTGGTTCTGTTGGCCAACAAATGTGACCAAGGGAAGGATGTGCTTATGAACAATGGA CTCAAGATGGACCAGTTCTGCAAGGAGCATGGCTTCGTAGGATGGTTTGAAACATCAGCCAAGGAAAACA TAAACATTGATGAAGCCTCAAGATGCCTGGTCAAGCACATACTTGCAAATGAGTGTGACCTCCTAGAGTC TATAGAACCGGACATTGTGAAGCCCCATCTCACATCGCCCAAGGTTGTCAGCTGCTCTGGCTGTGCCAAA TCCTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Chromatograms:	https://cdn.origene.com/chromatograms/ja2546_f04.zip
Restriction Sites:	SgfI-MluI
ACCN:	NM_028238
Insert Size:	636 bp

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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
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.
RefSeq:	BC089578, AAH89578
RefSeq Size:	1577 bp
RefSeq ORF:	636 bp
Locus ID:	72433
UniProt ID:	Q8QZZ8
Cytogenetics:	7 49.19 cM
Gene Summary:	Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and Mycobacterium (By similarity). May be involved in melanosomal transport and docking. Involved in the proper sorting of TYRP1. Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with ANKRD27 and VAMP7 (PubMed:21187289). Plays an important role in the control of melanin production and melanosome biogenesis (By similarity). In concert with RAB32, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (PubMed:26620560).[UniProtKB/Swiss-Prot Function]