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Product datasheet for MC205452

Rab3a (NM_009001) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3a (NM_009001) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab3a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC053519 GCTAGGACTGCAGGGGCCTGAGCCTCCTCCGCTGCCGCCTGCAGCCCCCGCCGCCGCCTGCATCCCCCGC ATCCTCTTCTGGGGCCCGGTCGCCAGCGCAGTCGCCACGGTCGCCGTCGCCAGCGTTGTCTCAGCTTAGA GAGGGTAAGATGGCTTCCGCCACAGACTCTCGCTATGGGCAGAAGGAGTCCTCAGACCAGAACTTCGACT ATATGTTCAAGATCCTGATCATTGGGAACAGCAGCGTGGGCAAAACCTCGTTCCTCTTCCGCTACGCAGA TGACTCCTTCACTCCAGCCTTTGTCAGCACCGTTGGCATAGACTTCAAGGTCAAAACCATCTACCGCAAC GACAAGAGGATCAAGCTGCAGATCTGGGACACAGCAGGGCAAGAGCGGTACCGCACCATCACCACAGCCT ATTACCGAGGCGCCATGGGCTTCATCCTAATGTATGACATCACCAATGAGGAGTCATTTAATGCAGTGCA GGACTGGTCCACTCAGATCAAAACTTACTCGTGGGACAATGCCCAGGTGCTGCTGGTGGGAAACAAGTGT GACATGGAAGATGAGCGAGTGGTGTCCTCAGAGCGTGGCCGGCAGCTGGCTGACCACCTGGGCTTTGAGT TCTTTGAGGCCAGCGCCAAGGACAACATTAATGTCAAGCAGACGTTTGAACGTCTGGTGGACGTGATCTG TGAGAAGATGTCAGAGTCCCTGGATACTGCAGACCCTGCGGTCACCGGTGCCAAGCAGGGCCCGCAGCTC ACCGACCAGCAGGCGCCACCTCATCAGGATTGTGCCTGCTGAGCCACTTCCCTTCCCTGCTGCCAGGGGC ACGTCCCCCATCCCCGACTACCCTATTTATTATTGTAGCTATTTATTTATTTATTGAGGATGTGCCCCGA GCGCACCCCCTTCCCACCCTGTACATAGCTCCACCCAGCTCGGCCGTGGTGTATTGTGGTCACTGCTGCT CCCTCTCCTTTACCCCCCACCCCCATTTTGTTTTTGTAAACCATCCCGTCCACAGTTGTCAGTTGTGAAG AGGGGACCAGATGTCACTCTGCAGCAGGCTGATGGAAGATGGCGGGGCCTGCCAACCCCGAGGCTGGGGG ATCGCCATATGGACCACCTGGTTGACAGACGGCTTCTTGCTTGCCTGGGCCTTCTGCCTTATACTTTGGG ATAAATGGGGTGTAGGGGATATATTCACTACTTTGGGATACCCCCAAACCTGTTCTGACGTCGTGAGTGT CAAATGTGTCCCACTCCTCCCTAGAAGTTATGAACACTACACACAGTCAATAAAGCGAATGGACCTTGCT GAGTCTGCTGGCCCAGCCCCTGAACCCACCCACACGCAGTCCTTGACATTAAAGAGAATTTAATGAAAAA AAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_009001
Insert Size:	663 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC053519, AAH53519
RefSeq Size:	1410 bp
RefSeq ORF:	663 bp
Locus ID:	19339
UniProt ID:	P63011
Cytogenetics:	8 34.15 cM
Gene Summary:	Small GTP-binding protein that plays a central role in regulated exocytosis and secretion. Controls the recruitment, tethering and docking of secretory vesicles to the plasma membrane (PubMed:11598194). Upon stimulation, switches to its active GTP-bound form, cycles to vesicles and recruits effectors such as RIMS1, RIMS2, Rabphilin-3A/RPH3A, RPH3AL or SYTL4 to help the docking of vesicules onto the plasma membrane (By similarity). Upon GTP hydrolysis by GTPase-activating protein, dissociates from the vesicle membrane allowing the exocytosis to proceed (By similarity). Stimulates insulin secretion through interaction with RIMS2 isoform RIMS2 and RPH3AL effectors in pancreatic beta cells (PubMed:15159548, PubMed:20674857). Regulates calcium-dependent lysosome exocytosis and plasma membrane repair (PMR) via the interaction with 2 effectors, SYTL4 and myosin-9/MYH9 (By similarity). Acts as a positive regulator of acrosome content secretion in sperm cells by interacting with RIMS1 (By similarity). Plays a role in the regulation of dopamine release by interacting with synaptotagmin I/SYT (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) has an alternate splicing site in the 5' UTR, and is a shorter transcript, as compared to variant 1. Variants 1,2 and 3 encode the same protein.