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Product datasheet for MC228519

Racgap1 (NM_001253808) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Racgap1 (NM_001253808) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Racgap1
Synonyms:	AI227039; AI327394; Band25; gtl11; GTPase; MgcRacGAP; mKIAA1478
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228519 representing NM_001253808
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATACTACAATGGTGAATTTGTGGACTCTGTTTGAGCAGCTTGTGCGCCGGATGGAGATTATCAATG
AAGGAAATGAAAGCATTGAATTCATCCAGGTTGTGAAGGACTTCGAGGACTTCCGAAAGAAGTATCAAAG
AACCAACCAGGAGCTGGAGAAATTCAAAGACCTATTGTTGAAAGCAGAGACTGGGCGGAGCGCCCTGGAC
GTGAAGCTGAAGCATGCCCGTAATCAAGTGGACGTGGAGATCAAGCGGAGGCAGCGCGCTGAGGCAGAGT
GTGCAAAGCTGGAACAACAGATTCAGCTGATTCGAGACATACTCATGTGTGACACATCTGGCAGTATTCA
GCTGAGCGAGGAACAAAAATCAGCTCTCGCTTTCCTCAACCGAGGCCAAGCATCCAGTGGCCACGCCGGC
AACAATAGACTGTCAACGATTGATGAATCTGGTTCCATTTTATCAGATATCAGCTTTGACAAGACTGATG
AATCACTGGACTGGGATTCTTCTTTGGTGAAGAATTTCAAAATGAAGAAACGAGAGAAGAGGCGCTCCAA
CAGTAGACAGTTCATCGACGGCCCTCCTGGGCCTGTGAAGAAAACTTGTTCCATTGGCTCTACAGTAGAC
CAGGCAAATGAATCAATAGTTGCAAAAACTACAGTGACTGTTCCCAGTGATGGGGGACCCATTGAAGCTG
TGTCTACTATTGAGACATTGCCGTCCTGGACCAGGAGTCGCGGGAAGTCAGGACCTTTACAACCTGTGAA
CAGTGACTCCGCTCTGAACAGCAGGCCACTGGAGCCAAGAACTGACACAGACAATTTGGGCACACCTCAG
AATACTGGAGGCATGCGCTTGCACGACTTCGTCTCAAAGACGGTTATTAAGCCTGAATCTTGTGTTCCGT
GTGGAAAGCGGATCAAGTTTGGCAAGCTGTCTCTGAAGTGTCGAGACTGTCGTTTGGTCTCCCATCCAGA
ATGTCGGGACCGATGTCCCCTTCCCTGCATCCCCCCCCTGGTGGGGACACCGGTTAAGATTGGAGAGGGC
ATGCTGGCCGACTTCGTGTCGCAGGCTTCTCCCATGATCCCTGCCATTGTCGTCAGCTGTGTCAATGAGA
TCGAGCAGCGAGGCCTGACTGAGGCAGGCTTGTACAGGATCTCAGGCTGTGACCGCACAGTGAAAGAACT
GAAAGAAAAATTCCTTAAGGTGAAAACTGTGCCCCTCCTCAGCAAAGTGGACGATATCCACGTCATCTGC
AGCCTCCTGAAGGACTTCCTGCGCAACCTCAAAGAGCCCCTCCTGACCTTCTGGCTGAGCAAAGCCTTCA
TGGAGGCAGCAGAGATAACAGATGAAGACAACAGCACAGCCGCCATGTACCAGGCTGTCAGTGAGCTGCC
CCAGGCCAACAGGGACACGCTAGCCTTCCTTATGATCCACCTACAGAGAGTGTCTCAGAGTCCAGACACT
AAGATGGATATTGCCAATCTAGCTAAAGTCTTTGGCCCTACAATAGTTGCCCATACTGTGCCCAATCCAG
ATCCAGTGACAATGTTCCAGGACATCAAACGTCAGCTCAAGGTGGTGGAGCGCCTACTCTCTCTCCCCTT
GGAGTACTGGAATCAGTTCATGATGGTGGACCAAGAGAACATAGACAGCCAGCGAGGCAATGGAAACTCA
ACACCACGCACACCAGACGTTAAAGTGAGCTTACTGGGGCCTGTGACCACTCCTGAATTCCAGCTTGTCA
AGACTCCTTTATCAAGTTCCCTGTCACAGAGGTTGTACAACCTCTCCAAGAGCACACCCAGATTTGGGAA
CAAGAGCAAGTCTGCCACCAACTTAGGTCAACAGGGCAAATTTTTCCCTGCTCCGTACCTCAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001253808

Insert Size: 1887 bp

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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).

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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:	NM_001253808.1, NP_001240737.1
RefSeq Size:	2940 bp
RefSeq ORF:	1887 bp
Locus ID:	26934
UniProt ID:	Q9WVM1
Cytogenetics:	15 F1
Gene Summary:	Component of the centralspindlin complex that serves as a microtubule-dependent and Rho-mediated signaling required for the myosin contractile ring formation during the cell cycle cytokinesis. Required for proper attachment of the midbody to the cell membrane during cytokinesis. Plays key roles in controlling cell growth and differentiation of hematopoietic cells through mechanisms other than regulating Rac GTPase activity. Also involved in the regulation of growth-related processes in adipocytes and myoblasts. May be involved in regulating spermatogenesis and in the RACGAP1 pathway in neuronal proliferation. Shows strong GAP (GTPase activation) activity towards CDC42 and RAC1 and less towards RHOA. Essential for the early stages of embryogenesis. May play a role in regulating cortical activity through RHOA during cytokinesis. May participate in the regulation of sulfate transport in male germ cells.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an exon in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.

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