

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATACTACAATGGTGAATTTGTGGACTCTGTTTGTGAGCAGCTTGTGCGCCGGATGGAGATTATCAATG
 AAGGAAATGAAAGCATTGAATTCATCCAGGTTGTGAAGGACTTCGAGGACTTCGAAAGAAGTATCAAAG
 AACCAACCAGGAGCTGGAGAAATTCAAAGACCTATTGTTGAAAGCAGAGACTGGGCGGAGCGCCCTGGAC
 GTGAAGCTGAAGCATGCCGTAATCAAGTGGACGTGGAGATCAAGCGGAGGCAGCGCGCTGAGGCAGAGT
 GTGCAAAGCTGGAACAACAGATTGAGCTGATTCGAGACATACTCATGTGTGACACATCTGGCAGTATTCA
 GCTGAGCGAGGAACAAAATCAGCTCTCGCTTTCCTCAACCGAGGCCAAGCATCCAGTGGCCACGCCGGC
 AACATAGACTGTCAACGATTGATGAATCTGGTCCATTTTATCAGATATCAGCTTTGACAAGACTGATG
 AATCACTGGACTGGGATTCTTCTTGGTGAAGAATTTCAAATGAAGAAACGAGAGAAGAGGCGCTCCAA
 CAGTAGACAGTTCATCGACGGCCCTCTGGGCTGTGAAGAAAATTGTTCCATTGGCTCTACAGTAGAC
 CAGGCAAATGAATCAATAGTTGCAAAAACCTACAGTACTGTTCCAGTGTGGGGACCCATTGAAGCTG
 TGCTACTATTGAGACATTGCCGTCCTGGACCAGGAGTCCGCGGAAGTCAGGACCTTTACAACCTGTGAA
 CAGTACTCCGCTCTGAACAGCAGGCCACTGGAGCCAAGAAGTACACAGACAATTTGGGCACACCTCAG
 AATACTGGAGGCATGCGCTTGCACGACTTCGTCTCAAAGACGGTTATTAAGCCTGAATCTTGTGTTCCGT
 GTGAAAGCGGATCAAGTTTGGCAAGCTGTCTGAAAGTGTGAGACTGTCGTTTGGTCTCCCATCCAGA
 ATGTCGGGACCGATGTCCTTCCCTGCATCCCCCTGGTGGGACACCGGTTAAGATTGGAGAGGGC
 ATGCTGGCCGACTTCGTGTCGAGGCTTCTCCATGATCCCTGCCATTGTCGTGAGCTGTGTCAATGAGA
 TCGAGCAGCGAGGCTGACTGAGCAGGCTGTACAGGATCTCAGGCTGTGACCGCACAGTGAAGAAGT
 GAAAGAAAATTCCTTAAGGTGAAAACCTGTCCTCCTCAGCAAAGTGGACGATATCCAGTCTCTGTC
 AGCCTCCTGAAGGACTTCTGCGCAACCTCAAAGAGCCCTCCTGACCTTCTGGCTGAGCAAAGCCTTCA
 TGGAGGCAGCAGAGATAACAGATGAAGACAACAGCACAGCCGATGTACCAGGCTGTGAGTGGAGTCC
 CCAGGCCAACAGGGACACGCTAGCCTTCTTATGATCCACCTACAGAGAGTGTCTCAGAGTCCAGACACT
 AAGATGGATATTGCCAATCTAGCTAAAGTCTTGGCCCTACAATAGTTGCCATACTGTGCCAATCCAG
 ATCCAGTGACAATGTTCCAGGACATCAAACGTGAGCTCAAGGTGGTGGAGCGCTACTCTCTCCCTT
 GGAGTACTGGAATCAGTTCATGATGGTGGACCAAGAGAACATAGACAGCCAGCGAGGCAATGAAACTCA
 ACACCACGCACACAGACGTTAAAGTGAAGTACTGGGCTGTGACCACTCCTGAATTCAGCTTGTCA
 AGACTCCTTTATCAAGTTCCTGTACAGAGGTTGTACAACCTCCTCAAGAGCACCCAGATTTGGGAA
 CAAGAGCAAGTCTGCCACCAACTTAGGTCAACAGGGCAAATTTTCCCTGCTCCGTACCTCAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 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).

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.
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:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.</p>