

Product datasheet for **MC200700**

Racgap1 (BC010715) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Racgap1 (BC010715) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Racgap1
Synonyms:	Band25, GTPase, MgcRacGAP, gtl11
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC010715
 GTCGCTGGTAGACAGCAGCCCTCCTGGGGCGCGCGGCCGGAGAGTGAGCGCCGCGGGCCGGACGGGGTT
 GCGTGTGCGCGGGCCGGGAGCCCTGAAAGATGGATACTACAATGGTGAATTTGTGGACTCTGTTTGAGC
 AGCTTGTGCGCCGGATGGAGATTATCAATGAAGGAAATGAAAGCATTGAATTCATCCAGTTGTGAAGGA
 CTTGAGGACTTCGAAAGAAGTATCAAAGAACCAACCAGGAGCTGGAGAAATCAAAGACCTATTGTTG
 AAAGCAGAGACGGGGCGGAGCGCCCTGGACGTGAAGCTGAAGCATGCCCGTAATCAAGTGGACGTGGAGA
 TCAAGCGGAGGCGAGCGCGCTGAGGCAGAGTGTGCAAAAGCTGGAACAACAGATTACGCTGATTTCGAGACAT
 ACTCATGTGTGACACATCTGGCAGTATTACGCTGAGCGAGGAACAAAAATCAGCTCTCGCTTCCTCAAC
 CGAGGCCAAGCATCCAGTGGCCACGCGCAACAATAGACTGTCAACGATTGATGAATCTGGTTCCATTT
 TATCAGATATCAGCTTTGACAAGACTGATGAATCACTGGACTGGGATTCTTCTTTGGTGAAGAATTTCAA
 AATGAAGAAACGAGAGAAGAGGCCCTCCAACAGTAGACAGTTCATCGACGGCCCTCCTGGCCTGTGAAG
 AAAACTTGTCCATTGGCTCTACAGTAGACCAGGCAAATGAATCAATAGTTGCAAAAACACAGTGACTG
 TTCCAGTGATGGGGACCCATTGAAGCTGTGTCTACTATTGAGACATTGCCGCTCCTGGACCAGGAGTCG
 CGGAAGTCAGGACCTTTACAACCTGTGAACAGTGACTCCGCTCTGAACAGCAGGCCACTGGAGCCAAGA
 ACTGACACAGACAATTTGGGCACACCTCAGAATACTGGAGGCATGCGCTTGCACGACTTCGTCTCAAAGA
 CGGTTATTAAGCCTGAATCTTGTGTTCCGTGTGAAAGCGGATCAAGTTTGGCAAGCTGTCTCTGAAGTG
 TCGAGACTGTCGTTTGGTCTCCCATCCAGAATGTCGGGACCGATGTCCTCCTTCCCTGCATCCCCCCTG
 GTGGGACACCGGTTAAGATTGGAGAGGCCATGCTGGCCGACTTCGTGTGCGAGGCTTCTCCCATGATCC
 CTGCCATTGTCGTGAGTGTCAATGAGATCGAGCAGCGAGGCCTGACTGAGGCAGGCTTGTACAGGAT
 CTCAGGCTGTGACCGCACAGTGAAGAAGCTGAAAGAAAAATTCCTTAAGGTGAAAACGTGCCCCCTCCTC
 AGCAAAGTGGACGATATCCACGTCTGTCAGCCCTCCTGAAGGACTTCTGCGCAACCTCAAAGAGCCCC
 TCCTGACCTTCTGGCTGAGCAAAGCCTTCATGGAGGCAGCAGAGATAACAGATGAAGACAACAGCAGCAGC
 CGCCATGTACCAGGCTGTGAGTGTGAGTGTCCAGGCAACAGGGACACGCTAGCCTTCCCTATGATCCAC
 CTACAGAGAGTGTCTCAGAGTCCAGACACTAAGATGGATATTGCCAATCTAGCTAAAAGTCTTTGGCCCTA
 CAATAGTTGCCATACTGTGCCAATCCAGATCCAGTGACAATGTTCCAGGACATCAAACGTGAGCTCAA
 GGTGGTGGAGCGCCTACTCTCTCTCCCCTTGGAGTACTGGAATCAGTTTATGATGGTGGACCAAGAGAAC
 ATAGACAGCCAGCGAGGCAATGGAAGCTCAACACCACGCACACCAGACGTTAAAGTGAGCTTACTGGGGC
 CTGTGACCACTCCTGAATCCAGCTTGTCAAGACTCCTTTATCAAGTTCCCTGTCACAGAGGTTGTACAA
 CCTCTCCAAGAGCACACCAGATTTGGGAACAAGAGCAAGTCTGCCACCAACTTAGGTCACAGGGCAAA
 TTTTTCCCTGCTCCGTACCTCAAGTAAAGCTGTGTCTGCCTGTGTTTACTGCACGAGACACCCTGTCTG
 CTCTTCCAGCTCCTGTGTAATGACTACTTTTAGCATTTCAGACTTTAAATAAAGTTGAACGCGTATGA
 GAGTTTGAAGTGTGATAGCTCCCTCCACCTGGACACTTAGCACCTTACTAGTTGTGCGGAGCTTTAA
 AATAGGAGATCTTACCAGGGCCGAAGGGAAATGGGTATAAGTTGGGGCTCTTAGGGGAGGGGAGAGG
 AGATCCCTTTGGCTTAAAGCCAAATACTGCTCATGAAATGACTTTGCTGTGGTGTCACTTAGACAATGAC
 AGAAACTGTACTCTTAGGTAACGTCTTAGTTATCTCAGGACAGGATAAAGAGCTGCGCAGCGGCCCTT
 CTCAGAACACAGGCCTTCTCCTCTCGGGGACTGACAAGAAGCTTGGAGCCCTCAGCGGATGGGCCGG
 GCCACTGATCTGAGGATGCTTCACTTCTGTCTGGGTTAAGCTGAGAAAGTCCACAGGCTCTGATCTCAC
 ACAGCGTGCTGTTTCTAGCCAGCCTCTGCCTGGATTTTGCAGTCAAAGTCAGGTTGATCTGAAGCCGAAT
 TCGTTCTGATGCCTGACCCCTTGTGTTGTCAGTGGAGCCATTTAAAAAGTCAGCTAGCAGTTCAGAAG
 ACAATTTTCATATAGCAAGAAAGTTAGCTGCTTCTGTCTTTGGTGAAGTTTTTCTGTGAAACAGATCTAT
 ATATGTGAACATTGGCTTTTTGGTTAGCATTTTCCAGTGTCAAATGGCTTCTTCCCTGGGATGTTT
 TCTGACCCATACTAACCCTTACCTGTAACATGTATCTGGAATATTATGTGGAAAAATAAATAGCTTTTT
 CAAAGTGAIAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC010715
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).
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:	BC010715 , AAH10715
RefSeq Size:	2913 bp
RefSeq ORF:	1887 bp
Locus ID:	26934
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]