

Product datasheet for **MC205710**

Rap1gds1 (NM_145544) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap1gds1 (NM_145544) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rap1gds1
Synonyms:	BC011279; GDS1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC011279
 GCCCTGCCGGTCTCACTCTGTGGGAGGAACATGGATAACCTCAGTGACACTTTAAAGAAGCTGAAGATA
 ACAGCTGCTGACAGGACAGAGGGCAGTCTGGAAGGATGCTTGGATTGTCTGCTTCAAGCCTTGGCTCAGA
 ATAATGCAGAAACAAGTGAAAAATACAAGGAAGTGAATTCTTCAGTTGTTTGCAAATCTGTTGACGCC
 ACAGGCCCTCTGCACAGCCAAAGTAGCCAACATCATAGCAGAAGTAGCCAAAAATGAATTTATGCGAATC
 CCATGTGTAGATGCTGGATTGATTTACCACCTGGTACAGCTGTTAAATAGCAAAGACCAGGAAGTCTGC
 TTCAAACGGGCAGGGCATTAGGAAACATATGCTACGATAGCCATCCCTTCAGGCCAGCTTATTAGCAT
 GGGTGTTATCCCGACCTTAGTGAAGCTACTGGCATTCACTGCCACAATGCAGCACTCACCGAGATGTGT
 CTCGTTGCGTTCCGGAATTTAGCAGAAGTGTGAGTCAAGTAAAGAACAGTTTGCTAGCACAAAACATCGCTG
 AAGAGCTGGTAAACTGTTCAAGAAACAGATAGAACACGATAAAAGAGAGATGATTTTTGAAGTCTAGC
 GCCGTTGGCAGAGCATGATGCTATTAAGCTGCAGCTGGTTGAAGCAGGTTTGGTAGAGTGTCTCCTAGAG
 ATCGTCCAACAGAAGGTGGATAGCAACAAAGAGGACGACGTTGCCGAGCTTAAACTGCTTCTGACCTCA
 TGGTTTTATTACTGCTTGGAGATGAGTCCATGCAGAACTTTTTGAAGGAGGAAAAGGCAGTGTGTCCA
 AAGGGTGTCTCCTGGATTCCATCGAATAACCACCAGCTGCAGCTGGCTGGGCATTAGCCATTGCAAAAT
 TTTGCCAGAACGATGGAATTTGATTCATATGGTAGACAATGGGATTGTAGAAAACTCATGGATTTGC
 TGGACAGACACGTAGAAGACGGGAACGTGACGGTGCAGCACGCCCACTAAGTGCCCTCAGGAATCTAGC
 CATCCCAGTTGTAATAAAGCAAAGATGTTATCAGCTGGTGTACGGGAGACGGTTTTGAAATTCCTTAAA
 TCTGAAATGCCCCAGTTCAAGTCAAACCTCTGGGAACGCTAAGAATGTTAATAGATGCACAAGCAGAAG
 CTGCTGAGCAACTGGGAAAGAATGCTAAACTGGTGGAGCGTTTGGTTGAATGGTGTGAAGCCAAAGATCA
 TGCCGCGGTGATGGGCGAATCAAACAGACTGCTCTCTGCCCTCATCCGACACAGTAAATCAAAGATGTA
 ATAAAACCATTTACAGAGTGGTGGCATCAAGCACCTGGTTACCATGGCAACTAGTGAACATGTAATCA
 TGCAGAATGAAGCTTTGTCGCCCTGGCAGTATAGCAGCCTTGGAACTGGTCCCGCTGAGAAGGATCT
 CGCAAGTGTCTCAGCTTGTTCAGATCTTACACCGACTGCTAGCAGATGAGAGAAGTCCCGGAGATCAAG
 TACAATTCATGGTCTGATCTGCGCTCATGGGATCCGAATCTCTATACAAGGAAGTACAGGATTTGG
 CCTTTCTAGATGTTGCTCCAAACTTCAAGTCATGAGAACAAAAGTGTGCCAACAGGCTCGCTTAC
 AGAGCAGAGACTTACAGTGGAAAGCTGAGAAGTGGCCCTGCTGGCACCAGGCTCATCCCAGCTCCGCCCA
 CTCCACTGTTCTCCATCCAGCTGCTTCTCAACTCCATTCTACTACATCACTTGTGCATGCGTGAAT
 GTTCCAGTACCAATGGAAGAAGTCTATAGGTACCTGCCTAATAAGATTTCTAAACCCATAGTAAATGTG
 AACATGACTGTCAGAACAAGTCTCCACCATAACTGTTAAATCTATACTCCTGATGCTTGAAGTACATT
 AAGTAGAATGTGCATGTTGTAGTCTATGATGATGTAACCTGGTACTCCATGCTGACTTGTCTCCTCACA
 TGCAGTAAGCTACATAAATGTACTGGTAAACTAGAAACAAAGAATGCAGCAGGACCTGTCTAGCTTAT
 TTAAGATGAGACTGAATCGTCAAGGTAGCACCACGTATTCTGGTTTTGTTTTGTTTTGGTGTGGGAA
 GCACAGCGATCAAAAAGCCTGTATGGCTGCTCACTCATTAACTTCTGCCAACGTGAGGCCCTGTCCACC
 TAAACTGGAATAGGTCCAATATTCCTTCCCTACGGTCTCTCCTTTTTCTGAACTATATAGGCAGTT
 TGCCAAGTAAACAGCAAACCTTCTGAGGCTCCTGATCCATCTTTAATCGACAGTGGTACAGGGGCTC
 AGTGCTGAAACGTGGATTTAATGTGAGCGGAGCGTAGGAAGGAGTTAAAGAAACCCTGGCATACTGAAC
 CACTTTGGATCTTGCCTGACTTTAGATCCGATTTGTGTGTGGTTACATCTAGAAGTCCATCAGCTAGC
 CAGCATTTGCAACATGTCTCTAAAGCGTCTTGGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
 GGTGGAGAATGGACTTCCCCCCCCCGCCGTTTTTCATCTTTTAGGGTGAAGCAGGGAGTTTCATCTTT
 CATGCTCCCTTTCAATGTGCTAATTCTAATTGGACATAAGAGGAAACCTGAAGTAAAGCTTGTCTAAAGAG
 AGGAAGGCCGTTTTAAAAGCCATAGTAGCCAGTCCAGTACATCTGCAGATGGCCTCATAGCAGTCATT
 GTTAGAGTTCTTACCTCCACTTTCCACTGAGAACCACAATAATCTCCAGGCTGCAAGCCAGGACTCG
 CCGCAAAGACTCTTCTGGCATAATGTAGTGTGCTCGTCACTGCCACTAACCCACCAAGTGAAGTTCTT
 AGAGCTTTGACACACAGTCTTTATAAATTAATCGGGATTCCCTGTGACCCGCTGCCTCCTCACACCCAA
 GGTGAGTCTGCTGATGTCGAGGGAGGCTGAGCTCCGTTACAGGAGTGGAGGGCAGTGAAGGGCTGCT
 GAGAGGGACCAGCTCCTCCCTCCCAGCTCCTCCCTCCCCAACAGGAGATACCTGTATCTGCGCTCT
 CTAAGTCCGACTTTGCTTTTCACTTTTAAATTAAGAAGATTTACTTCATGTAAGTAGAAACCTGAC
 TGACAGTTCCTCTGATGTCAAATAAGGGAAGTGTGGTGAAGCGCTGTGCTTTATTGTCTTCTCCTGG
 GCTGGATAAGTGGACTAATGTTGCATAACTGTCCATATTAATAACTTAATAAATAAATAGTTTATGAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_145544
Insert Size:	1677 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:	BC011279 , AAH11279
RefSeq Size:	3373 bp
RefSeq ORF:	1677 bp
Locus ID:	229877
UniProt ID:	E9Q6Q4
Cytogenetics:	3 H1
Gene Summary:	Stimulates GDP/GTP exchange reaction of a group of small GTP-binding proteins (G proteins) including Rap1a/Rap1b, RhoA, RhoB and KRas, by stimulating the dissociation of GDP from and the subsequent binding of GTP to each small G protein. Able to promote the Ca(2+) release from the endoplasmic reticulum via both inositol trisphosphate (Ins3P) and ryanodine sensitive receptors leading to a enhanced mitochondrial Ca(2+) uptake.[UniProtKB/Swiss-Prot Function]