

Product datasheet for **MR208840**

Rap1gds1 (NM_145544) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap1gds1 (NM_145544) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rap1gds1
Synonyms:	BC011279; GDS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208840 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATAACCTCAGTGACACTTTAAAGAAGCTGAAGATAACAGCTGCTGACAGGACAGAGGGCAGTCTGG
 AAGGATGCTTGGATTGTCTGCTTCAAGCCTTGGCTCAGAATAATGCAGAAACAAGTGAAAAATACAAGG
 AAGTGAATTCTTCAGTTGTTTGCAAACTGTGTGACGCCACAGGCCTCCTGCACAGCCAAAGTAGCCAAC
 ATCATAGCAGAAGTAGCCAAAAATGAATTTATGCGAATCCCATGTGTAGATGCTGGATTGATTTACCAC
 TGGTACAGCTGTTAAATAGCAAAGACCAGGAAGTCTGCTTCAAACGGGCAGGGCATTAGGAAACATATG
 CTACGATAGCCATTCCCTTCAGGCCAGCTTATTAGCATGGGTGTATCCCGACCTTAGTGAAGCTACTG
 GGCATTCCTGCCACAATGCAGCACTACCGAGATGTGTCTCGTTGCGTTCGGGAATTTAGCAGAACTTG
 AGTCAAGTAAAGAACAGTTTGTAGCACAAACATCGTGAAGAGCTGGTAAAAGTGTTCAGAAACAGAT
 AGAACACGATAAAAGAGAGATGATTTTTGAAGTCTAGCGCCGTTGGCAGAGCATGATGCTATTAAGCTG
 CAGCTGGTTGAAGCAGGTTTGGTAGAGTGTCTCTAGAGATCGTCCAACAGAAAGTGGATAGCAACAAAG
 AGGACGACGTTGCCGAGCTTAAAAGTCTGACCTCATGGTTTTATTACTGCTTGGAGATGAGTCCAT
 GCAGAACTTTTTGAAGGAGGAAAAGGCAGTGTGTCCAAAGGGTCTCTCTGGATTCCATCGAATAAC
 CACCAGCTGCAGCTGGCTGGGGCATTAGCCATTGCAAAATTTGCCAGGAACGATGGAATTTGATTCATA
 TGGTAGACAATGGGATTGTAGAAAACTCATGGATTTGCTGGACAGACACGTAGAAGACGGGAACGTGAC
 GGTGCAGCACGCCGCACTAAGTGCCTCAGGAATCTAGCCATCCCAGTTGTAATAAAGCAAAGATGTTA
 TCAGCTGGTGTACGGAGACGGTTTTGAAATTCCTTAAATCTGAAATGCCCCAGTTCAGTTCAAACTCC
 TGGGACGCTAAGAATGTTAATAGATGCACAAGCAGAAGCTGCTGAGCACTGGGAAAGAATGCTAAACT
 GGTGGAGCGTTTTGGTTGAATGGTGTGAAGCCAAAGATCATGCCGGCGTGTGGGCGAATCAAACAGACTG
 CTCTGCCCCATCCGACACAGTAAATCAAAGATGTAATTAACCATTGTACAGAGTGGTGGCATCA
 AGCACCTGGTTACCATGGCAACTAGTGAACATGTAATCATGCAGAATGAAGCTCTGTGCGCCTGGCACT
 GATAGCAGCCTTGGAACTGGTCCCCTGAGAAGGATCTCGCAAGTGTCTAGCTTGTTCAGATCTTACAC
 CGACTGTAGCAGATGAGAGAAGTGCCCGGAGATCAAGTACAATTCCATGGTCTGATCTGCGCTCTCA
 TGGGATCCGAATCTCTATACAAGGAAGTACAGGATTTGGCCTTTCTAGATGTTGTCTCAAACCTCGAAG
 TCATGAGAACAAAAGTGTGCCAACAGGCCTCGCTTACAGAGCAGAGACTTACAGTGGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208840 protein sequence
 Red=Cloning site Green=Tags(s)

MDNLSDTLKKLKITAADRTEGSLEGCLDCLLQALAQNNAETSEKIQSGILQLFANLLTPQASCTAKVAN
 IIAEVAKNEFMRI PCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDSHSLQAQLISMGVIPTLVKLL
 GIHCHNAALTEMCLVAFGNLAELESSKEQFASTNIAEELVKLFKKQIEHDKREMIFEVLAPLAEHDAIKL
 QLVEAGLVECLLEIVQQKVDSNKEDDVAELKTASDLMVLLLLGDESMQKLFEGGKGSVVFQRVLSWIPSN
 HQLQLAGALAIANFARNDGNCIHMVDNGIVEKLMDLLDRHVEDGNVTVQHAALSALRNLAIPVVNKA
 SAGVTETVLKFLKSEMPVQFKLLGTLRMLIDAQAEAAEQLGKNAKLVERLVEWCEAKDHAGVMGESNRL
 LSALIRHSKSKDVIKTI VQSGGIKHLVTMATSEHVIMQNEALVALALIAALELGAEKDLASAQLVQILH
 RLLADERSAPEIKYNSMVLICALMGSESLYKEVQDLAFLDVVSKLRSHENKSVAAQASL TEQRLTVES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

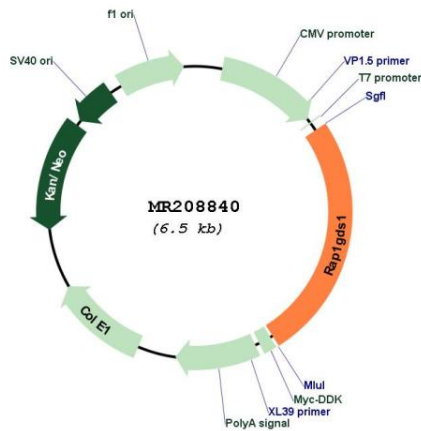
Sgfl-MluI

Cytogenetics: 3 H1

MW: 60.8 kDa

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]

Product images:



Circular map for MR208840