

Product datasheet for **MR208493**

Ric8a (NM_053194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ric8a (NM_053194) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ric8a
Synonyms:	A1114950; RIC-8; Ric8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208493 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCCGGGCAAGTTCGGGATGCCTTGAGACCCGAGAGGAAGATGCGGTGACAGAAGCTCTGCGGT
 CGTTCAACCGGGAGCATTCTCAGAGCTTACCTTCGATGATGCCAGCAGGAGGACAGGAAGAGACTCGC
 AAAGCTACTGGTCTCCGTCCTGGAGCAGGGCTTGTCAACAAAGCACCGTGTACCTGGCTGCAGACTATC
 CGAATCTATCCCAGACCCGAGCTGCCTGGACTCATTGGCCAGCCGAGAGCTTACATGCACTAGCCT
 GCTATGCTGACATTACCGTCTCAGAGGAACCCATCCCACAGTCCCAGACATGGATGTCTCTCGAGTC
 TCTCAAATGCCTGTGTAATCTTGTGCTCAGCAGTCCAACAGCACAGATGCTAGCAGCAGAGGCTCGCCTG
 GTGGTGGGCTAGCGGAGCGTGTGGGACTGTACCGCAAGAGGAGCTATCCCCACGAAGTCCAGTTCTTTG
 ACTTGAGGCTCCTTTTCTGCTAACAGCCCTTCGCACGGATGTGCCAGCAACTGTTTCAGGAGCTGCA
 CGGTGTACGCTGCTGACTGATGCGCTGGAACAACTGGGCGTGGCCCCAAAGAAAACCTCCGGTG
 ATGCTTCCAGCCAAAGAGACGGAGAGGGCCATGGAGATCCTCAAAGTGTCTTTAATATCACCTTTGACT
 CTGTCAAGAGGGAAGTTGATGAGGAAGATGCTGCCCTTACCAGTACCTGGGGACTCTTCTGCGGCACTG
 CGTGATGGTTGAAGTGTCTGGGACCGCACAGAGGAGTCCACGGCCACACGGTGAATCTCTGGGGAAC
 TTGCCCTCAAGTGTGGATGTCTTCTGGCCCTGGAGCTCCACGAAGGATCCTTAGAGTTCATGGGAG
 TTAACATGGATGTGATCAGTGCCTCCTCGCCTTCTAGAAAACGTCTGCACCAGACCCACAGGCTGAA
 GGAATGTGTGGCACCTGTGCTGAACGTGTTGACAGAATGTGCCCGCATGCACCGTCTGCCAGGAAGTTC
 CTGAAGGCCAGGTCTGCCCTCTGAGGGATGTGAGGACTCGCCTGAGGTGGGGACCTGCTTCGAA
 ACAAGCTTGTCCGCTCATGACACACCTGGATACAGATGTGAAGAGAGTAGCTGCCGAGTCTCTTTGT
 CTTATGTTCTGAAAGTGTGCCCGATTCAAGTACACAGGCTACGGGAATGCTGCCGGCTCCTGGCT
 GCCAGGGCCTCATGGCTGGGGCCGACCCGAGGGCCAGTACTCAGAGGACGAGGACACGGACACAGAGG
 AGTACAGGGAAGCCAAGGCCAGCATCAACCCTGTGACTGGAAGGGTGGAGGAGAAGCCGCTAATCTAT
 GGAAGGCATGACAGAGGAGCAGAAGGAACATGAGGCCATGAAGCTAGTGAACATGTTTGACAAGCTCTCC
 AGGCACAGAGTCAACAACCCATGGGGATGAGTCCCAGGGGTACCTCACTTCTCTGCAAGATGCGATGT
 GTGAGACAATGGAGGGACAGCTCTCTCAGACCCTGACTCAGATCCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208493 protein sequence
 Red=Cloning site Green=Tags(s)

MEPRAVADALETGEEDAVTEALRSFNREHSQSFTFDDAQQEDRKRLAKLLVSVLEQGLSPKHRVTWLQTI
 RILSRDRSCLDSFASRQSLHALACYADITVSEEPQPSPDMDVLLLESKLCNLVSSPTAQMLAAEARL
 VVRLAERVGLYRKRSPHEVQFFDLRLLFLLTALRTDVRQQLFQELHGVRLTDALELTLGVAPKENPPV
 MLPAQETERAMEILKVLFNITFDSVKREVDEEDAALYRYLGTLLRHCVMVEAAGDRTEEFHGHTVNLGN
 LPLKCLDVLLALELHEGSLEFMGVNMDVISALLAFLEKRLHQTHRLKECVAPVNLVTECARMHRPARKF
 LKAQVLPPLRDVTRPEVGDLLRNKLVRLMTHLDTDKRVAAEFVLCSESVPRFIKYTYGNAAGLLA
 ARGLMAGGRPEQYSEDEDTDTEEYREAKASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKLVNMFDKLS
 RHRVIQPMGMSPRGHLTSLQDAMCETMEGQLSSDPDSDPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

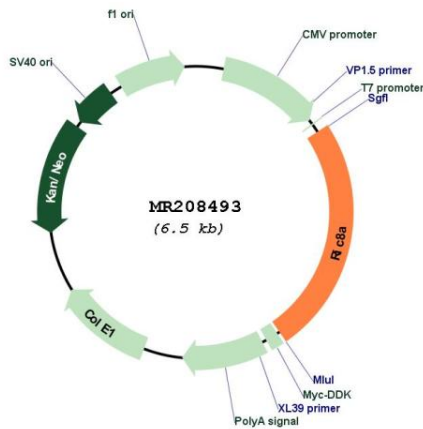
Sgfl-MluI

Cytogenetics: 7 F4

MW: 59.8 kDa

Gene Summary: Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex. Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208493