

## Product datasheet for **MC201674**

### **Ric8a (NM\_053194) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ric8a (NM_053194) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ric8a
Synonyms:	A1114950; RIC-8; Ric8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC022917 sequence for NM\_053194  
 GCCGATTGCGTCTTCCCAGCCCAAGCCTTCCAGCACCCGGTGCCAGGGGCCATGGAGCCCCGGGCAGTTG  
 CCGATGCCTTGGAGACCCGGAGAGGAAGATGCGGTGACAGAAGCTCTGCGGTGCTTCAACCGGAGCATTG  
 TCAGAGCTTACCTTCGATGATGCCAGCAGGAGGACAGGAAGAGACTCGCAAAGCTACTGGTCTCCGTC  
 CTGGAGCAGGGCTTGTACCAAAGCACCCTGTCACCTGGCTGCAGACTATCCGAATCCTATCCCAGAGACC  
 GCAGTGCCTGGACTCATTGGCCAGCCGACAGCTTACATGACTAGCCTGCTATGCTGACATTACCGT  
 CTCAGAGGAACCCATCCCACAGTCCCAGACATGGATGTCTCCTCGAGTCTCTCAAATGCCTGTGTAAT  
 CTTGTGCTCAGCAGTCCAACAGCACAGATGCTAGCAGCAGAGGCTCGCCTGGTGGTGAAGCTAGCGGAGC  
 GTGTGGGACTGTACCGCAAGAGGAGCTATCCCCACGAAGTCCAGTTCTTTGACTTGAGGCTCCTTTTCT  
 GCTAACAGCCCTTCGCACGGATGTGCGCCAGCAACTGTTTCAGGAGTGCACGGTGTACGCCTGCTGACT  
 GATGCGTGGAATAACTGGGCTGGCCCCAAAGAAAACCTCCGGTGATGCTTCCAGCCCAAGAGA  
 CGGAGAGGGCCATGGAGATCCTCAAAGTCTTTAATATCACCTTTGACTCTGTCAAGAGGGAAGTTGA  
 TGAGGAAGATGCTGCCCTTACCAGTACCTGGGACTCTTCTGCGGCACTGCGTGATGGTTGAAGCTGCT  
 GGGGACCCACAGAGGAGTTCCACGGCCACACGGTGAATCTCCTGGGAACTTGGCCCTCAAGTGTGTTGG  
 ATGTGCTTCTGGCCCTGGAGCTCCACGAAGGATCCTTAGAGTTTCAATGGATGTGATCAG  
 TGCCCTCCTCGCCTTCTAGAGAAACGTCTGCACCAGACCACAGGCTGAAGGAATGTGTGGCACCTGTG  
 CTGAACGTGTTGACAGAATGTGCCCGCATGCACCGTCTGCCAGGAAGTTCTGAAGGCCAGGTCTCTGC  
 CCCCTCTGAGGGATGTGAGGACTCGGCCTGAGGTGGGGGACCTGCTTCGAAAACAGCTTGTCCGCCTCAT  
 GACACACCTGGATACAGATGTGAAGAGAGTAGTGCAGGTTCTCTTTGTCTTATGTTCTGAAAGTGTG  
 CCCCATTATCAAGTACACAGGCTACGGGAATGCTGCCGGCCTCCTGGTGCACAGGGCCCTCATGGCTG  
 GGGGCCGACCCGAGGGCCAGTACTCAGAGGACGAGGACACGGACACAGAGGAGTACAGGGAAGCCAAGGC  
 CAGCATCAACCTGTGACTGGAAGGGTGGAGGAGAAGCCGCCTAATCCTATGGAAGGCATGACAGAGGAG  
 CAGAAGGAACATGAGGCCATGAAGCTAGTGAACATGTTTGACAAGCTCTCCAGGCACAGAGTATCCAAC  
 CCATGGGGATGAGTCCCAGGGGTACCTCACTTCTCTGCAAGATGCGATGTGTGAGACAATGGAGGGACA  
 GCTCTCCTCAGACCCTGACTCAGATCCTGACTGAAGATGCCAGCGCCTTGTCCCTTCAAACTGGTG  
 CTGCTTCCAGACATGTCTGGGGTGTGCTCAAGAAGCCACACCCTCTCCAGCTGGGGAGCCCTTCTC  
 TCTCCTCCTCACATTTCTGTCATCTGCCTTTGGTCCAGTTTCTGTGTTTAGGACTGTGGTAGTCTTACC  
 CTCTGTGAAGACGGGAACCCACCTTTTCCACAAGTGAAGTTGTTTCTGGATGTGGCTGCAGCCA  
 CGAGCAGAATTGCCCTGGCACATAAATGAACATGCGTGTATGAGGGTGGTAAATGGAGCAGGGTACACATG  
 GTGTAAGCATGACTGGGCTGGATGCCAGCCAGAGCCCGTATGTGGGCATACGCTGTGTTCAAACATT  
 TTAGAATCTGTTGAAATTGTTTAAAGTATGTCAGAAAACACACCAAGCGTATGGTTCTGCTTCTGGCCC  
 CACTGAGCACAGGGCTAGTGGCCTTTCTTAACTTTTTGGTCTGCGCCTGCCACCCACTGACAGTATCCG  
 CATACCCAAGCCTCACTAGTTGTGACAATACTCAGTCAACAACCACTGGCTTAGTAATTCTGTGAAGGC  
 GAAAGTAAAGCAAAAGTCAAATCTGAGATTCTGAGGCACAGAATACAGGAGAGTTTGGGACAAGACTGTGT  
 ATGTGAAGTAGTCAGGTGAAAGGCTATTAACAGAAAAGTATTTCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_053194

**Insert Size:** 1593 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:**

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:** [BC022917](#), [AAH22917](#)

**RefSeq Size:** 2371 bp

**RefSeq ORF:** 1593 bp

**Locus ID:** 101489

**UniProt ID:** [Q3TIR3](#)

**Cytogenetics:** 7 F4

**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]