

## Product datasheet for **MC219019**

### **Ric8b (NM\_183172) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ric8b (NM_183172) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ric8b
Synonyms:	BC051080; Ric-8; Ric-8b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC219019 representing NM\_183172  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGAAGAGCGGCCCTCTACATCGTCCGGCCGGCGAGCGGGGGCTATCGAGCGGGTCTGAGGG  
 ATTACAGCGACAAGCATAGGGCTACTTTCAAATTTGAATCAGCAGATGAAGATAAAAAGAAAGAACTCTG  
 TGAAGGCATATTTAAGGTCCTTGCAAGGAGGTCCCAACGACATGCCAAGTGTCTGCTGGAAGTACTC  
 CGCATTCTCTCCAGAGACAAAAAGATCTTAGTTCCTGTAACAATAAGGAAAATATGCAAACTACTGCTGA  
 GACTAGCCAAGCTCCACGAGTCAGACGATTCTTTGGAGAAGGTGTGAGAGTTCCAGTTATTGTGGAATC  
 ATTGAAGTGTCTGTAAACATCGTGTTCACACAGTCAGATGGCACAGCAGCTTAGCCTGGAAGTGAATCTC  
 GCTGCAAAGCTCTGTAACCTCCTAAGGAAGTGAAGGACCGAAAATTTATCAATGACATAAAGTGCCTTG  
 ACTTGCCTTCTGCTTCTGCTTCTGCTACTTTTGCACACTGACATCAGGTCACAATTGCGCTATGAGCTCCA  
 GGGACTCCCGCTGCTAACCCAGATCTTGGAAAGTGCCTTTAGCATCAAGTGGACCGATGAGTATGAGTCG  
 GCCATAGACCATAATGGACCTCCTCTCACTCAGGAGACAGACTGTGCCATTGAGGCCCTCAAAGCTC  
 TGTTCAATGTGACGGTAGACAGTTGGAAGTGCATAAAGAGAGCGATTCTCATCAGTTTCGTGTCATGGC  
 AGCTGTCTTCGCCATTGTTACTAATTGTAGGTCCTCAACTGAAGACAAAACCGAAGAGCTGCACAGTAAT  
 GCCGTCAACCTTTAAGCAATGTTCCAGTCTCTTGTGGATGTTCTCATTTGTCCATTAACCCATGAAG  
 AAACAGCCCAAGAGGCAGCAACTCTAGATGAACTGCCAGTGATAAAAACAACGGAGAAAGACACAGCTTT  
 GAAAAACAGTACCATGGTATAACAATGGCATGAATATGGAGGCCATTACGTTTTACTCAATTTTATGGAG  
 AAGAGAATTGATAAGGGAAGCAGCTATAGAGAGGGTCTAACTCCAGTTCTCAGCTTATTAACAGAATGTT  
 CCCGAGCCCATCGGAACATCCGAAAATTTCTCAAAGATCAGTTTTACCGCCTTTGAGAGATGTGACAAA  
 TCGACCAGAAGTCGGCTCAACCGTGAGAAAATAAGCTGGTTCGTCTCATGACACATGTTGACCTCGGAGTC  
 AAGCAGATTGCTGCTGAGTTCCTTTTTGTCTTTGCAAAGAGAGAGTGGATAGCCTGCTGAAATACACTG  
 GCTATGGGAACGCTGCAGGACTCTTGGCGCCAGGGCCCTCTTGGCTGGAGGAAGAGGAGATAATTGGTA  
 CTCAGAGGACGAGGACACGGACTGAAGAATACAAAACGAAAACCAACATTAATCTTACTGCTGGT  
 CATTTAGAGGAACCAATGCCAACCTATAGATGAAATGACAGAAGAACAAAAGAATATGAAGCCATGA  
 AACTTGTAACATGCTTGATAAACTTTCCAGAGAGGAGTTGCTTAAACCAATGGGACTAAAACCTGACGG  
 GACAATAACGCCTTTGGAGGAAGCACTCAGCCAGTATTCTGTATCGAAGAGACCAGCTCGGACACAGAC  
**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1994\\_f01.zip](https://cdn.origene.com/chromatograms/ja1994_f01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_183172

**Insert Size:** 1683 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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:** [NM\\_183172.2](#), [NP\\_898995.1](#)

**RefSeq Size:** 5017 bp

**RefSeq ORF:** 1683 bp

**Locus ID:** 237422

**UniProt ID:** [Q80XE1](#)

**Cytogenetics:** 10 C1

**Gene Summary:** Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins by exchanging bound GDP for free GTP (By similarity). Able to potentiate G(olf)-alpha-dependent cAMP accumulation suggesting that it may be an important component for odorant signal transduction.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (2) contains an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform 2, which is longer than isoform 1.