

## Product datasheet for **MC223343**

### Rasal3 (NM\_178785) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rasal3 (NM\_178785) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rasal3  
**Synonyms:** A430107D22Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223343 representing NM\_178785  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGCCAGAATGTGGGCAGACAATGTTCAGAACCTTTGGTCTCGCAGCAGAGACTCCTCGCCATGG  
ACCCACCGTTGCAGAGTGAAGAAGATCCCAAACGCAGCCCTCGTGCCTCTCCGCTGACATCCTACCG  
CTGGCACACTGGAGGCAGTGGGAAAAGGCTGCTGGAGGGTTCCGCTGGGGCCGCTTTGCAGGCTGGGGA  
AGGGCCCTGAGCCATCAGGAGCCATGGTGAACAGCCAGCCAGCCCCAGATCTCTGTTTCGTCGGGTCC  
TCTCTGCACCCCTAAGGAGTCAAGGTCACGGTCCAATCGCCTCCGGTTTTCCAAGACCCTGTGGGAAAGGCACAA  
GAACGTGGCACCCTGGAACCCAAGCCAATCCGAAGGCCCCAGAGCCAGAGCTGGAGTTGGTAGCAGAC  
CCAGATCTACCCGTTGCACAGATCCCTGAGCCTCCCACCCCGGACATGCCTGTTTGAACATTGATGGCT  
TTACCTTCTCGAAGGAAAGCTGGTGTGCTCGGTGAGGAGGAGGGTCTCGCCAAATCCGAGTGGGAAAG  
CGCCAGTTCAGAGAACAGCATGCAGGCAGCTTTGGGAACTCAAGGATGCAGTTCGGACCCCTGGAAAA  
ACTGAGCCGGAAGCTGCTGGTTCCAACCAAGTCCACAATGTTCCGAAGTTACTCAAGAGGCTGAAGGAGA  
AGAAAAGAGCCAAGTCAAGACTGGGAGCCTACACCCCTCGAGATGGACCTCCCAGTGCCTCGGTTCCAG  
AGAATCGCTGGCCACACTCTGAGCTGGACCTAGGTGCTGAGAGGGACGTGAGAGTCTGGCCACTGCAT  
CCTAGCCTCTTGGGGGAGCCCTACTGCTCCAGGTAACCTGGGCAGGTGGGAGCCTCTGTTTCTCATGTC  
GCTCGAGCGCTGAGAGAGACCGTTGGATTGAGGACCTTCGTCGGCAGTTCAGCCGAGCCAGGACAACGT  
GGAGCGGCAAGAGATGTGGCTGACGGTGTGGGTGCACGAGGCCAAAGGGTACCCCGAGCAACTGTACCC  
GGAGTGCCTGCGGAGCTGTGGTTGGATGGCGCGCTATTGGCGCGCACTGCCCCCGTGGCCGCCCAGGCC  
AACTCTTCTGGGCTGAACGCTTCCACTTCGAGGCGTGGCCACCTGCCCGTCGCTGTCGCTGCGGTGCG  
CAGCGCAGGCCCGCAGGGCAACCGTGGCAGGGTGGTCTGGAGCTGGACGAGGTGAGCATCCCCCGC  
GCGCTGCGCGGGCCTAGAGCGCTGGTCCCGGTGCTTGGGGCGCCGGCAGGTGCGGTGCTACGAGCGC  
GGATCAGGGTGCCTGTCTGCGCGTGTGCCGTGGAGCGCTATAAGGAGCTGGCCGAGTTCCTACCTT  
CCTACTACGCGCGCTGTGCGGGCGCTGGAGCCGCGCTGTCTGCTCAGGCCAAAGAGGAGCTGGCAGCA  
GCCATGGTGCCTGTACGAGCCACTGGCCGAGCGCAGGCATTGGTGACAGACCTAGGAACCGCAGAGC



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TGGCACGCTGTGGAGGCCGTGAAGCACTGCTATTCCGAGAAAATACCTTAGCCACAAAGGCCATTGATGA  
 ATACATGAAACTGGTGGCACAGGAGTACCTCCAGGACACCCTGGGGCAGGTTGTGCGGTGTCTCTGTGCC  
 TCCACTGAGGACTGTGAAGTGGACCCAGCAAGTGCCCAACACCAGAGCTGCCAAAACACCAAGCTAGAC  
 TGCGAGACAGCTGTGAGGAGGTTTTTGA AACATCATCCATTCTTACAACGTGTTCCAGCAGAGCTGGG  
 CTCCGTGTTCTCAAGTTGGCGTGAAGCATGCAAAGCACAGGCTCTGAGGCCCTGGGCCCCGGCTGGT  
 TGTGCTTCCCTCTCTGAGGCTTTTATGCCCTGCCATCTTGGCACCTAGCCTCTTTGGCCTGGCACCAG  
 AGCACCCAGCCCCAGGCCAGCAGA ACTCTTACACTCATCGCCAAGGTATCCAGAACCTCGCCA ACTG  
 TGCCCCGTTTGGTGAGAAGGAAGCCTACATGGCGTTTATGAATAGCTTCCCTGGAAGATCATGGACCAGCC  
 ATGCAACACTTCCCTGGACCAGGTAGCTACGGTGGATGCAGATACCACACCAGTGCTACCAGGGAAGTG  
 GAGACCTGGCCCTTCAGTTAGCAGTTCTTCATGTCCAGCTCTGCACAATCTTTGCCGA ACTTGACCAGAA  
 AACCCAAGATAGCTTGA AACACTACCCACCATCCTTCGAGCCATTGAGGAAGGCCGGCCTGTCCCAGTG  
 TCTGTACCAATGCGTCTTCCCGGATCTCCACTCAGGTCCAATCCAGTCTTTTTCAGGGGAGAAACCCG  
 GCTTCTGGCACCCCGAGACCTCCCAAGCACACTCCCCTCATTCCAAGAGTCAATCTCTGCGCAGCTT  
 TCAAGGGGCAGGAAGCTGGGCCAGTCGGCGCCAGATGAGGAGCGGCCCCAGAGGCGGCCGCGCCAGTG  
 CTGCGCACACAGAGCGTCCCTGCCAGAGCTCCTACCCACCGTCGCCCTTCTGCAGTTCCAAGCCGCGGC  
 CCAAAGGCTCCCTACGCATGGGCCCGCCGCTTGGGACGGGCCTGGACTAGGGCTTCTGCCTCGCTACC  
 TCGGAAGCCATCGGTACCATGGCAGCGCAAATGGACCAGCCGGGGGACCATACCAA ACTACGGGAACG  
 CACCGACCAAGTGGCAAGCTAGCAGAGATA CAATGTGAGGTGGCTATATCCGCGAGGCACAGAAAGCTC  
 TGTCCCTTCTGGTGGAGTCGTTGAGTACCCAAGTCCAAGCCTTGAAGGAGCAGCAGGAGCACTTCCGCTG  
 TCAGCTGCAGGATCTGTACTCCAGACTGGGAGCTGGTATCTCAAAGTTGGATTCTAAGGGTGGTCTCCCA  
 AGCAACGGAAGCCACAGGCTGAAAAGTCTGGAACAGCGCCTGACTGAGATGGAATGTTCTCAGGACCAGC  
 TGAGGGATAGCCTCCAAAGCCTGCAACTCTTTCAAAAACACCAGGATCTCGGAGCCAGCCCCTGCCTCT  
 CAAAGCACCATGTGCAATGGAGCTGATCTGTCAATGGCACTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_178785

**Insert Size:**

3126 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:**

[NM\\_178785.3](#), [NP\\_848900.2](#)

**RefSeq Size:**

3677 bp

**RefSeq ORF:**

3126 bp

Locus ID: 320484

UniProt ID: [Q8C2K5](#)

Cytogenetics: 17 B1

**Gene Summary:** Functions as a Ras GTPase-activating protein. Plays an important role in the expansion and functions of natural killer T (NKT) cells in the liver by negatively regulating RAS activity and the down-stream ERK signaling pathway.[UniProtKB/Swiss-Prot Function]