

## Product datasheet for **MC220363**

### Ripor2 (NM\_001080381) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ripor2 (NM_001080381) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ripor2
Synonyms:	1700108N18Rik; 6330500D04Rik; AI225904; E430013J17Rik; Fam65b; RP23-461O24.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220363 representing NM\_001080381  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCACCCGGTACTAAGCGTCTCCGGGACTAGGAGCGTTCTCGGCAGGACTGCCAACAGACTCCCAG  
 AAATCATGCTGGTGGGATCCCAGTCCTTCTCCTGGCGGGCCAATGGCATCATCCGGAGCCAGTCCTT  
 CGCAGGTTTCAGTGGGCTGCAGGAAAGGCGGTCCAGGTGTAACCTTCATTGAAAATGCCTCGGCTCTC  
 AAGAAGCCTCAGGCCAAGCTGAAGAAAATGCATAATCTTGGACACAAAAAACAACACTCCCAAGGAGC  
 CTCAGCCGAAGAGAGTGGAGGAGGTCTACCGGGCCTTGAAGAACGGGCTTGATGAGTACCTGGAGTTCA  
 CCAGACGGAGCTGGACAAATTGACTGCTCAATTAAGATATGAAGAGAACTCTCGCTGGGTGTGCTG  
 TATGACCTAGACAAGCAAATTAACGATTGAGAGATACATGCGACGCCTGGAGTTTACATTAGTAAGG  
 TAGACGAGCTCTATGAAGCCTATTGTATCCAACGGCGTCTCCAAGATGGTCCAGCAAAAATGAAGCAAGC  
 CTTGCGGACGTCCTGCCAGCAAGGCTGCCCGGAGAGTCTGTCTGAGATCAACCGCAGCTACAAGGAA  
 TACACGGAGAACATGTGTGCCATTGAAGCGGAGTTGGAGAGTCTGCTGGGAGAATTCATCAAGATGA  
 AAGGTCTGGCTGGCTTGGCCGCCTCTGTCTGGAGATCAATATGAAATTTTCATGAAGTATGGTCGGCA  
 GAGGTGAAAATGAAGGGCAAAATAGAAGTGAATGGTAAACAGAGCTGGGATGGAGCAGAAAACCGTCTTC  
 CTGCCCTCATAGTTGGGTTCAATTCATCAAGGTCACAGAACTCAAAGGACTGGCGACTCACATCTG  
 TAGGCAGTGTGACCTGCGAGACCAAGAGCTGTTTGCAGCCCGACCCAGGTGGTGGCTGTTGACATCAA  
 TGACCTTGGTACCATCAAACCTGAACTGGAATCACCTGGTATCCCTTTGACGTGGAGGACACAACCCCA  
 TCGTCGGGCCCTGGGAACAAGACAGCTGCTCTCCAGCGAAGGATGTCCATGTACAGCCAGGGCACCCAG  
 AAACACTACCTCAAAGACCAGTCCTTCTTTAGATGGTTGCGGCTGTCTGTCTTGAGTGCCTTGGGAGA  
 CACTTTCTTTGCCACGTTGCACCACAACCACTCTGTGCGTGACCTGCCTCCCTCAGCCTGAACCCCAAG  
 GCCCTGTAGAATTCTATTCAAATCTGCCAGATGACATCTTTGAGAGTGGAAAGGCTGCAGAGGAGAAAA  
 GGCCACTGTCCCTCAGCTTCAGTGACCTGCAGGATGGAGACTGTGTCTTACCTCCAGCTCAGCCACCTC  
 CCCCTCCAGTTCACACTCAGCCATCCAGAGATTACCATACCCCGCAGAGCTTACCCACAGCAGCCTG  
 TCCTCACAAAATGAGGGCACCGAGGACAGCAGCTCAGCGTCTTCCAGGAATTCCTTGGGTGAGGACCATG  
 AGCCCAAGTCCCACCAAGAGTGATACGGTAGAGCCCGGAAGCCGGGTGTGGCTACAAGTCTGGTAC  
 CGAGAGCCTGTTCTGGAGAGTAGTGTGGCCGAGGCTCTCCTGCAGGAATCGGATGAGGCCTCTGAGCTC  
 AAGCCCGTGGAACTGGACTTTTGAAGGAAACATCACAAGCAACTGGTGAAGAGGCTCACCTCGGCTG  
 AGGGGCCCGTCACTACTGACAAGCTTTTCTTTGAAGGCTCTGTTGGTAGCGAGTCTGAGGCTGGCCGGTC  
 CTTTCTGGATGGCAGCCTGGAAGATGCCTTCAATGGACTCTTCTTGCATTAGACCCACACAAGAAGCAG  
 TACAAAGAGTTCAGGATCTGAACCAAGAAGTCACTCACTTGGATGATGTTCTCAAAGATGCTAAACATC  
 TTGAGGATCAGAGACTCAATGATGCTGCTTCCCGATGGAGATCACAGAGGGTGAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001080381
- Insert Size:** 2019 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\\_001080381.1](#), [NP\\_001073850.1](#)

**RefSeq Size:** 3434 bp

**RefSeq ORF:** 2019 bp

**Locus ID:** 193385

**UniProt ID:** [Q80U16](#)

**Cytogenetics:** 13 A3.1

**Gene Summary:** Acts as an inhibitor of the small GTPase RHOA and plays several roles in the regulation of myoblast and hair cell differentiation, lymphocyte T proliferation and neutrophil polarization (PubMed:25588844, PubMed:27269051). Plays a role in fetal mononuclear myoblast differentiation by promoting filopodia and myotube formation (PubMed:17150207). Maintains naive T lymphocytes in a quiescent state and prevents chemokine-induced T lymphocyte responses, such as cell adhesion, polarization and migration (By similarity). Involved also in the regulation of neutrophil polarization, chemotaxis and adhesion (PubMed:25588844). Required for normal development of inner and outer hair cell stereocilia within the cochlea of the inner ear (PubMed:27269051). Plays a role for maintaining the structural organization of the basal domain of stereocilia (PubMed:27269051). Involved in mechanosensory hair cell function (PubMed:27269051). Required for normal hearing (PubMed:27269051).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks several exons, and uses an alternate 3'-terminal exon, compared to variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.