

## Product datasheet for **MC219937**

### Ripor2 (NM\_178658) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ripor2 (NM_178658) 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:** >MC219937 representing NM\_178658  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAATTCCTTGACCCTGAGGATCTTCTGGATGAAGAGGATGACATTTTGGCGAAGGACTGCCAACCA  
 GACTCCCAGAAATCATGCTGGTGGGATCCCAGTCTTCTCTCCTGGCGGGCCCAATGGCATCATCCGGAG  
 CCAAGTCTTCGCAGGTTTCAGTGGGCTGCAGGAAAGGCGGTCCAGGTGTAACCTTCATTGAAAATGCC  
 TCGGCTCTCAAGAAGCCTCAGGCCAAGCTGAAGAAAATGCATAATCTTGGACACAAAAAACAACACTC  
 CCAAGGAGCCTCAGCCGAAGAGAGTGGAGGAGTCTACCGGCCCTTGAAGAACGGGCTTGATGAGTACCT  
 GGAGTTTCACCAGACGGAGCTGGACAAATTGACTGCTCAATTAAGATATGAAGAGAACTCTCGCCTG  
 GGTGTGCTGTATGACCTAGACAAGCAAATTAACCGATTGAGAGATACATGCGACGCTGGAGTTTCACA  
 TTAGTAAGGTAGACGAGCTCTATGAAGCCTATTGTATCCAACGGCGTCTCCAAGATGGTCCAGCAAAT  
 GAAGCAAGCCTTCGCGACGTCCCCTGCCAGCAAGGCTGCCGGGAGAGTCTGTCTGAGATCAACCGCAGC  
 TACAAGGAATACACGGAGAACATGTGTGCCATTGAAGCGGAGTTGGAGAGTCTGCTGGGAGAATTCTCCA  
 TCAAGATGAAAGGTCTGGCTGGCTTTGCCCGCCTCTGTCTGGAGATCAATATGAAATTTTCATGAAGTA  
 TGGTCGGCAGAGGTGAAACTGAAGGGCAAAATAGAAGTGAATGGTAAACAGAGCTGGGATGGAGCAGAA  
 ACCGTCTTCTGCCCTCATAGTTGGGTTCAATCAAGGTCACAGAACTCAAAGGACTGGCGACTC  
 ACATCCTGGTAGGCAGTGTGACCTGCGAGACCAAGAGCTGTTTGCAGCCGACCCAGGTGGTGGCTGT  
 TGACATCAATGACCTTGGTACCATAAACTGAACCTGGAATCACCTGGTATCCCTTTGACGTGGAGGAC  
 ACAACCCCATCGTCGGGCCCTGGGAACAAGACAGCTGCTCTCCAGCGAAGGATGTCCATGTACAGCCAGG  
 GCACCCAGAAACACCTACCTTCAAAGACCAGTCTTCTTTTCAAATCTGCCAGATGACATCTTTGAGAG  
 TGGAAAGGCTGCAGAGGAGAAAAGGCCACTGTCCCTCAGCTTCAGTGACCTGCAGGATGGAGACTGTGTC  
 TTCACCTCCAGCTCAGCCACCTCCCCTCCAGTTCACACTCAGCCCATCCAGAGATTACCATCACCCCG  
 CAGAGCTTACCCACAGCAGCCTGTCTCACAAAATGAGGGCACCGAGGACAGCAGCTCAGCGTCTCCAG  
 GAATTCCTTGGGTGAGGACCATGAGCCCAAGTCCACCCAAAGAGTGATACGGTAGAGCCGGGAAGCCG  
 GGTGTGGCTACAAGGTCTGGTACCAGAGCCTGTTTCTGGAGAGTAGTGTGGCCGAGGCTCTCTGCAGG  
 AATCGGATGAGGCCTCTGAGCTCAAGCCCGTGAAGTGGACACTTTTGAAGGAAACATCACAAAGCAACT  
 GGTGAAGAGGCTCACCTCGGCTGAGGGCCGTCCTACTGACAAGCTTTTCTTTGAAGGCTCTGTTGGT  
 AGCGAGTCTGAGGCTGGCCGGTCTTTCTGGATGGCAGCCTGGAAGATGCCTTCAATGGACTCTTCCTTG  
 CATTAGACCCACACAAGAAGCAGTACAAAGAGTTCAGGATCTGAACCAAGAAGTCACTCACTTGGATGA  
 TGTCTCAAAGATGCTAAACATCTTGAGGATCAGAGACTCAATGATGCTGCTTCCCGGATGGAGATCACA  
 GAGGGTGAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_178658
- Insert Size:** 1902 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\\_178658.5](#), [NP\\_848773.3](#)

**RefSeq Size:** 3161 bp

**RefSeq ORF:** 1902 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 (3) lacks several exons, and uses alternate 5'- and 3'-terminal exons, compared to variant 1. The encoded isoform (3) is shorter and has distinct N- and C-termini, compared to isoform 1.