

Product datasheet for **MC229316**

Ripor2 (NM_001286100) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ripor2 (NM_001286100) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ripor2
Synonyms: Fam65b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229316 representing NM_001286100
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGGTGGGATCCCAGTCCTTCTCTCCTGGCGGGCCAATGGCATCATCCGGAGCCAGTCCTTCGCAG
GTTTCAGTGGGCTGCAGAAAGGCGGTCCAGGTGTAACCTTCATTGAAAATGCCTCGGCTCTCAAGAA
GCCTCAGGCCAAGCTGAAGAAAATGCATAATCTTGACACAAAAATAACAACACTCCAAGGAGCCTCAG
CCGAAAGAGAGTGGAGGAGTCTACCGGGCCTTGAAGAACGGGCTTGATGAGTACCTGGAGTTTCACCAGA
CGGAGCTGGACAAATTGACTGCTCAATTAAGATATGAAGAGAACTCTCGCCTGGGTGTGCTGTATGA
CCTAGACAAGCAAATTAACGATTGAGAGATACATGCGACGCCTGGAGTTTACATTAGTAAGGTAGAC
GAGCTCTATGAAGCCTATTGTATCCAACGGCGTCTCCAAGATGGTGCCAGCAAAATGAAGCAAGCCTTCG
CGACGTCCCCTGCCAGCAAGGCTGCCCGGGAGAGTCTGTCTGAGATCAACCGCAGCTACAAGGAATACAC
GGAGAACATGTGTGCCATTGAAGCGGAGTTGGAGAGTCTGCTGGGAGAATTCTCCATCAAGATGAAAGGT
CTGGCTGGCTTTGCCCGCCTCTGTCTGGAGATCAATATGAAATTTTCATGAAGTATGGTCGGCAGAGGT
GGAAACTGAAGGGCAAAATAGAAGTGAATGGTAAACAGAGCTGGGATGGAGCAGAAACCTCTTCCTGCC
CCTCATAGTTGGGTTTCAATCAAGGTCACAGAACTCAAAGGACTGGCGACTCACATCCTGGTAGGC
AGTGTGACCTGCGAGACAAAGAGCTGTTTGCAGCCCGACCCAGGTGGTGGCTGTTGACATCAATGACC
TTGGTACCATCAAAGTGAACCTGAAATCACCTGGTATCCCTTTGACGTGGAGGACACAACCCCATCGTC
GGGCCCTGGGAACAAGACAGCTGCTCTCCAGCGAAGGATGTCCATGTACAGCCAGGGCACCCAGAAACA
CCTACCTTCAAAGACCAGTCCTTCTTTAGATGGTTGCGGCTGTCTGTCTTGAGTGCCTTGCAGACACTT
TCTTTGCCAGTTGCACCACAACCACTGTGCGGTGACCTGCCTTCCCTCAGCCTGAACCCCAAGGCCCT
GCTAGAATTCTATTCAAATCTGCCAGATGACATCTTTGAGAGTGGAAAGGCTGCAGAGGAGAAAAGGCCA
CTGTCCCTCAGCTTCAGTGACCTGCAGGATGGAGACTGTGTCTTACCTCCAGCTCAGCCACCTCCCCT
CCAGTTACACTCAGCCATCCAGAGATTACCATCACCCCGCAGAGCTTACCCACAGCAGCCTGTCTC
ACAAAATGAGGGCACCGAGGACAGCAGCTCAGCGTCTTCCAGGAATTCCTTGGGTGAGGACCATGAGCCC
AAGTCCCACCAAGAGTGATACGGTAGAGCCCGGAAGCCGGGTGTGGCTACAAGTCTGGTACCGAGA



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GCCTGTTTCTGGAGAGTAGTGTGGCCGAGGCTCTCCTGCAGGAATCGGATGAGGCCTCTGAGCTCAAGCC
CGTGGAAGTGGACACTTTTGAAGGAAACATCACAAAGCAACTGGTGAAGAGGCTCACCTCGGCTGAGGGG
CCCCTCACTACTGACAAGCTTTTCTTTGAAGGCTCTGTTGGTAGCGAGTCTGAGGCTGGCCGGTCTTTT
TGGATGGCAGCCTGGAAGATGCCTTCAATGGACTCTTCCCTTGATTAGACCCACACAAGAAGCAGTACAA
AGAGTTCAGGATCTGAACCAAGAAGTCACTCACTTGGATGATGTTCTCAAATGCAAGCCGGCTGGCAGC
CGCAGCAGGTCTCCAGCCTAAGTCTGACGGTTGAGAGTGCTTTAGAAAGCTTTGATTTCTCAACACCT
CTGACTTTGACGAAGAGGAAGAGGATGGCGATGACGTCTGCCACGTTGGAGGAGCCGAGACTCCGTGTT
TTCAGATACTGAGACTGAGAAGAGTGGTTACAGGTCAGTTCACCCGGAAGCCAGGGTCACTTAGCGAG
GCTCTGACTGAAGACACAGGTGTAGGCACCAAGTGTGGCAGGAAGCCCGCTCCCACTCACACAGGAAATG
AGAGCCTGGACATCACCATAGTCAAACATCTACAATACTGCACCCAGCTCATCCAGCAAATCGTCTTCTC
TAGCAAAACCCCTTTGTGGCAAGAAGTCTCTGGAGAAGCTGTCGAGGCAGGTCCTTGTGATGCAGAAG
CTGGCAGCCGTGAGTGACGAGAACCTCGGGAACATCACCTCTGTGGTGAAGCCATACCAGAATTCACA
AAAAGCTCTCCTTGTGGCCTTCTGGACCAAATGCTGCAGCCCCAGCGGGTCTACCACAGCTCCGCTGC
CCGCTCATCAAGCAGCTGGAGGCCAGCTTCGCCAGAAGCATCAACAAAGACTATCCAGGACTGGCAGAG
CCAGTGTTTAGAACCCTGGTGTCCCAAATCCTGGACCGAGCTGAACCTCTCTTTCTCCAGCCTCTCGT
CGGAAGTCATCACTGTCTTCCAGTACTACAGTCTTTCACAGCCACGGTGTGAGTGACCTGGAGACTTA
CCTGGGCCAGCTAACCAGGCAAGTTGCCATGGTTCAGACTCTGCAGTCACTGAGAGATGAGAAAAGTCTG
CAGACTATGAGCGACCTTGACCCAGCAACCTCCCGCTCAACAGGAAGTCTCAGGACGCTGGCCCTGC
TGCTCACAGGGATGACAATGAGGTGAGCGAAGCTGTGACACTCTACTTGGCAGCAGCCTCCAAAATGA
GCATTCAGAGAAAAGGCCTTGCTCTATTATTGCGAAGCACTAACGAAGGCCAATCTCCAGCTACAGAAG
GCAGCATGTCTGGCCCTAAAGAGCCTGGAGGCCACCGAAAGCATTAAATGCTAGTGACGTTGTGTGAGT
CTGACACTGAAGAAATCAGAACCCTGGCCTCGGAAACCCTCTCTCTCTTGGAGAAGACGGGCGACTGGC
GTACGAGCAATTAGACAAATCCCTCGAGATTGTGTTAAAGTGGGAGGTCGTCATGGAACCGAAGTTGCC
ACAGCCTTTAA
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001286100

Insert Size:

3162 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).

OTI Annotation:

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001286100.1](#), [NP_001273029.1](#)

RefSeq Size: 5466 bp

RefSeq ORF: 3162 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 (4) uses an alternate 5'-terminal exon and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1.