

Product datasheet for **MC229699**

Myo18a (NM_001291212) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo18a (NM_001291212) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo18a
Synonyms:	MAJN; MyoPDZ; MysPDZ; SP-R210
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229699 representing NM_001291212 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTAACTCATGAAGAAAGATAAGGACAAAGATGGCGGGCGGAAGGAGAAGAAGGAAAAAAGGAGA
AGAAGGAGAGGATGTCTGCGGCAGAAGTCCGGAGCCTGGAAGAGATGAGCATGCGCCGTGGCTTTTTCAA
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GCCAGTGGCTCTGACCTGACCTGACGGACATTGACTCTGACAGCAATCGGGTAGCATCATCTGGACT
CAGGACACCTAAGCACAGCCAGCTCCAGTGATGACCTCAAGGGTGAAGAAGGCAGCTTCCGGGGCTCTGT
GCTGCAGCGGGCAGCCAAGTTCGGTTCCTGCGCAAGCAGAAGTCTCAGATGATTGTCAAACGTTTTTCC
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 GCAGGACACCAAGCTGCACCTGGAGGGCCAGCAGGTCCGAAACACGAGCTGGAGAAGAAGCAGAGGAGG
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GATTGATGACATCGCCAAAGCCAAGACAGCGCTGGAGGAGCAACTGAGTCGACTTCAGCGTGAGAAAAAC
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 AGGGACCTTCTAAGGCACCTTCTGACGATGGCAGCTTGAAGAGTTCAGCCCAACCAGCCACTGGAAGCC
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 AGCTATCTGAGTGACAGCGACACAGAGGCCAAGCTGACAGAGACCAGTGCATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001291212
- Insert Size:** 6144 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_001291212.1](#), [NP_001278141.1](#)
- RefSeq Size:** 7396 bp
- RefSeq ORF:** 6144 bp
- Locus ID:** 360013
- UniProt ID:** [Q9JMH9](#)
- Cytogenetics:** 11 B5

Gene Summary:

May link Golgi membranes to the cytoskeleton and participate in the tensile force required for vesicle budding from the Golgi. Thereby, may play a role in Golgi membrane trafficking and could indirectly give its flattened shape to the Golgi apparatus (PubMed:19837035). Alternatively, in concert with LURAP1 and CDC42BPA/CDC42BPB, has been involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration (By similarity). May be involved in the maintenance of the stromal cell architectures required for cell to cell contact (PubMed:10733906). Regulates trafficking, expression, and activation of innate immune receptors on macrophages. Plays a role to suppress inflammatory responsiveness of macrophages via a mechanism that modulates CD14 trafficking (PubMed:25965346). Acts as a receptor of surfactant-associated protein A (SFTPA1/SP-A) and plays an important role in internalization and clearance of SFTPA1-opsonized S.aureus by alveolar macrophages (PubMed:21123169). Strongly enhances natural killer cell cytotoxicity (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.