

Product datasheet for **RN202564**

Myl12a (NM_001135017) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myl12a (NM_001135017) Rat Untagged Clone
Tag: Tag Free
Symbol: Myl12a
Synonyms: RGD1309537; Rlc-a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN202564 representing NM_001135017
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGCAAAAGAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTCC
CCATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTCAACATGATCGACCAGAACCGGGACGG
CTTCATCGACAAGGAGGACCTGCACGATATGCTGGCTTCAATGGGAAAAATCCAACGTGAATACCTG
GACGCCATGATGAATGAGGCCCGGCCCATCAATTTACCATGTTCTCACCATGTTTGAGAAAAGC
TGAACGGCACCGACCTGAGGACGTCATCAGAAATGCCTTCGCTTGCCTCGATGAGGAAGCAATCGGCAC
CATCCAGGAGGATTACCTGAGGGAGCTGCTCACCACCATGGGCGACCGCTTACAGATGAGGAAGTGGAT
GAGCTGTACAGGGAGGCCCCATCGACAAAAGGGGAATTTCAACTACATCGAGTTCACGCGCATCTCA
AGCACGGAGCGAAAGACAAAGATGACT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001135017
Insert Size: 519 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).



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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:	<ol style="list-style-type: none">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:	<u>NM_001135017.1</u> , <u>NP_001128489.1</u>
RefSeq Size:	992 bp
RefSeq ORF:	519 bp
Locus ID:	501203
UniProt ID:	<u>P13832</u>
Cytogenetics:	9q38
Gene Summary:	Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion (By similarity).[UniProtKB/Swiss-Prot Function]