

## Product datasheet for **RN202859**

### Myog (NM\_017115) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myog (NM\_017115) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Myog  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN202859 representing NM\_017115  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGTATGAAACATCCCCCTATTCTACCAGGAGCCCCACTTCTATGACGGGAAAACCTACCTTC  
CTGTCCACCTTCAGGGCTTCGAGCCCCGGCTATGAGCGGACCGAGCTCAGCTTAAGCCCGGAAGCCCG  
AGGGCCCTAGAAGAGAAGGGACTGGGGACCCCTGAGCATTGTCCAGGCCAGTGCCTGGCGTGT  
AAGGTGTGTAAGAGGAAGTCTGTGTCTGTGGACCGCGGAGGGCAGCCACACTGAGGAGAAAGCGCAGGC  
TCAAGAAAGTGAATGAGGCCTTCGAGGCTCTGAAGAGAAGCACCTGCTCAACCCCAACAGCGGCTGCC  
TAAGGTGGAGATCCTGCGCAGTGCCATCCAGTACATTGAGCGCCTACAGGCCTTGCTCAGCTCCCTCAAC  
CAGGAGGAGCGGATCTCCGCTACCGAGCGGGGGCGGGCCCCAGCCGGTGGTACCCAGTGAATGCAACT  
CCCACAGCGCCTCCTGCAGTCCGAGTGGGCAATGCACTGGAGTTTGGTCCCAACCCAGGAGATCATT  
GCTCGCAGCTGACCCTACAGGTGCCCAACCTGCACTCCCTACGTCCATCGTGGACAGCATCACGGTG  
GAGGATATGTCTGTCACCTTCCAGATGAAACCATGCCCACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_017115  
**Insert Size:** 675 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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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017115.2</a> , <a href="#">NP_058811.2</a>
<b>RefSeq Size:</b>	1448 bp
<b>RefSeq ORF:</b>	675 bp
<b>Locus ID:</b>	29148
<b>UniProt ID:</b>	<a href="#">P20428</a>
<b>Cytogenetics:</b>	13q13
<b>Gene Summary:</b>	This gene belongs to the myogenic factor subfamily of the basic helix-loop-helix (BHLH) family of transcription factors. The protein encoded by this gene is a muscle-specific skeletal myogenin, which acts in concert with other family members to regulate myogenesis. The protein plays an essential role in the conversion of undifferentiated cells to myoblasts and functional skeletal muscle. [provided by RefSeq, Jul 2008]