

## Product datasheet for **RN210003**

### Musk (NM\_031061) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_031061) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Musk
Synonyms:	Nsk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN210003 representing NM\_031061  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAGAGCTCGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACCGAGA  
 AAC TTCCAAAAGCCCTGTCATCACCACGCCTTTGAACTGTAGATGCCTTAGTTGAAGAAGTGGCGACTTT  
 CATGTGCGCCGTGGAATCCTACCCTCAGCCTGAAATTTCTGGACCAGAAATAAAATTTCATCAAGCTG  
 TTTGACACCCGCTACAGCATCCGAGAGAACGGTCAGCTCCTCACCATCCTGAGTGTGGAGGACAGTGATG  
 ATGGCATCTACTGCTGCACAGCCAACAATGGAGTGGGAGGAGCGGTGAAAGTTGTGGCGCCCTGCAAGT  
 GAAGATGAAGCCTAAAATAACTCGTCTCCCATCAATGTAAAAATAATTGAGGGATTGAAAGCAGTCTTA  
 CCGTGCCTACGATGGTAACCCCAAGCCATCCGTGTCTGGATTAAGGGGGACAGTGTCTCAGGGAAA  
 ATTCCAGGATTGCAGTTCTTGAATCTGGGAGTTAAGGATCCATAATGTGCAAAAGGAAGACGCAGGACA  
 GTACCGATGTGTGGCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGTT  
 TTTGCAAGAATCCTGCGTCTCCTGAATCCACAATGTCACCTTTGGTTCCTTTGTAACCCCTACGCTGCA  
 CAGCAATAGGCATGCCTGTCCCCACCATCAGCTGGATTGAAAACGGAAATGCTGTTTCTTCAGGTTCCAT  
 TCAAGAGAATGTGAAAGACCGAGTGATTGACTCAAGACTCCAGCTCTTTATCACAAAGCCAGGACTCTAC  
 ACATGCATAGCTACCAATAAGCATGGAGAGAAAATTCAGTACCGCAAAGGCTGCAGCCACTGTCAGTATAG  
 CAGAAATGGAGCAAATCACAGAAAGAAAGCAAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGTATGC  
 CGTCTGGTGAAGACTCTTTGTCTTCTTCAACACCTCCTATCCCGACCCTGAGGAGGCCAAGAGCTG  
 CTGATCCACACTGCGTGAATGAACTCAAGGCTGTGAGCCACTCTGCCAGCAGCTGCCGAGGCTGTC  
 TGTGTAATCACCTCTTCCAGGAGTGCAGCCCTGGAGTGTACTACTCCTATGCCATTTGCAGAGAGTA  
 CTGCTTGGCAGTAAAGGAGCTCTTCTGTGCAAAAGGAATGGCTGGCAATGGAAGGGAAGACCCACCGCGGA  
 CTCTACAGATCCGGGATGCATTTCTCCCGGTCCCGGAGTGCAGCAAGCTTCCCAGCATGCCAGGAGCC  
 CCACAGCCTGCACAAGACTGCCGATTTAGATTATAAAAAAGAAAACATAACAACATTCCTGCCATAAC  
 GTCCTCAAGCCGAGCGTGGACATTCCAAACCTGCCTGCCTCCACGTCTTCTTCGCCGTCTCGCTGCG  
 TACTCCATGACTGTCATCATCTCCATCATGTCTGCTTTGCGGTGTTGCTCTCCTCACCATCACTACTC  
 TCTATTGCTGCCAAGGAGGAGAGAGTGGAAAAATAAGAAAAGAGAGTCCGCAGCGGTGACCCTCACCAC  
 ATTGCCTCCGAGCTCCTGCTGGACAGGCTGCATCCCAACCCATGTACCAGAGGATGCCACTCCTTCTG  
 AATCCCAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATCGAGTATGTCAGAGACATCGGAGAGGGAG  
 CGTTTGAAGGGTCTTTCAAGCGAGGGCCCCAGGCTTGCTTCTTATGAACCTTCACTATGGTGGCTGT  
 GAAGATGCTGAAGGAGGAGGCTCCGCAGATATGCAGGCAGACTTTCAGAGGGAGGCAGCCCTCATGGCG  
 GAGTTTGACAACCCCAACATTGTGAAGCTCTTAGGTGTGTGTGCTGTTGGGAAGCCAATGTGCCTGCTCT  
 TTGAATATATGGCCTATGGTGACCTCAATGAGTTCCTCCGAAGCATGTCCCTCACACTGTGTGCAGCCT  
 CAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCCAGCCCTGGTCTCCACCCTGTCTTGTGCGGAA  
 CAGCTCTGATTGCCAGGCAAGTGGCAGCTGGCATGGCCTACCTGTCCGAGCGCAAGTTTGTCCATCGGG  
 ACTTAGCTACCAGGAAGTGCCTGGTGGAGAGAACAATGGTGGTGAATGTCAGACTTTGGCCTCTCTAG  
 GAACATCTACTCCGAGACTACTACAAAGCTGATGGAAACGATGCTATACCTATCCGCTGGATGCCACCC  
 GAGTCTATCTTCTACAACCGCTACACCACGGAGTCAGATGTGTGGCTTATGGCGTGGTCTCTGGGAGA  
 TCTTCTCTATGGACTGCAGCCCTACTATGGAATGGCCATGAGGAGGTCAATTTACTATGTGAGAGATGG  
 TAACATCCTTGCCTGCCCTGAGAACTGTCCCTGGAAGTGTACAACCTTATGCGCTATGTTGGAGCAAG  
 CTGCCTGCAGACAGACCCAGCTTCTGCAGTATCCACCGGATCCTGCAGCGCATGTGCGAGAGAGCAGAGG  
 GAACGGTAGGCGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_031061  
**Insert Size:** 2607 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_031061.1</a> , <a href="#">NP_112323.1</a>
<b>RefSeq Size:</b>	2855 bp
<b>RefSeq ORF:</b>	2607 bp
<b>Locus ID:</b>	81725
<b>UniProt ID:</b>	<a href="#">Q62838</a>
<b>Cytogenetics:</b>	5q24
<b>Gene Summary:</b>	receptor tyrosine kinase expressed in myotomes, developing muscle and localized to the neuromuscular junction in the adult; expression is induced in response to injury or immobilization [RGD, Feb 2006]