

## Product datasheet for **MC222146**

### Musk (NM\_001037130) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037130) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Musk
Synonyms:	Mdk4; Mlk; Ns; Nsk1; Nsk2; Nsk3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222146 representing NM\_001037130  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC  
 TTCAAAAAGCCCTGTCATCACCACGCCTTTGAAACTGTAGATGCCTTGTTGAAGAAGTAGCGACTTT  
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG  
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG  
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGGTGCCTGCAAGT  
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAAAAATAAGAGGGATTGAAGGCAGTTCTG  
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTGGATCAAGGGGGACAATGCTCTCAGGGAAA  
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA  
 GTACCGCTGTGTGCCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGTT  
 TTTGCAAGAATCCTGCGTCTCCTGAATCCACAATGTCACCTTTGGTTCCTTTGTAACCCACGCTGCA  
 CAGCAATAGGCATCCCTGTCCCAACCATCAGCTGGATTGAAAACGGAAATGCTGTTTCTTCAGGTTCCAT  
 TCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTCCAGCTTTCATCACAAAGCCAGGACTCTAC  
 ACATGCATAGCTACCAATAAGCACGGAGAAAAGTTCAGTACCGCAAAGGCTGCAGCCACTGTCAGCATAG  
 CAGAATGGAGTAAGTACAGAAAAGACAGCAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGTGATGC  
 AGTCTGGCGAAAGATGCTCTTGTCTTCTCAACACCTCCTACCGGACCCCGAGGACGCCAGGAGCTG  
 CTGATCCACACTGCGTGAATGAGCTGAAGGCTGTGAGTCCACTGTGCCGCCAGCTGTTGAGGCTGTC  
 TGTGTAAACCCTCTTCCAAGAGTGCAGCCCTGGAGTGGTACTACTCCCATGCCATTTGCAGAGAGTA  
 CTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAAAGGAATGGCAGGCAATGGAAGGAAAGGCCACCGGGGC  
 CTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGTGCAGCAAGCTTCCCAGCATGCACCGGACC  
 CCACAGCCTGCACAAGACTGCCATATTTAGCATTCCCCTCAATAACGTCCTCCAGGCCGAGCGGGACAT  
 TCCAAACCTGCCTGCCTCCACCTCTTCTTTGCCGCTCGCCTGCGTACTCCATGACCGTCATCATCTCC  
 ATCGTGTCCAGCTTTGCCCTGTTTGTCTTCTCACCATCGCTACTCTCTATTGCTGCCGAAGGAGGAAAAG  
 AATGAAAAATAAGAAAAGAGAGTCGACCGCGGTGACCCTCACCACGTTGCCCTCCGAGCTCCTGCTGGA  
 TAGGCTCCATCCCAACCCATGTACCAGAGGATGCCACTCCTTCTGAATCCTAAGTTGCTCAGCCTGGAG  
 TATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAGAGGGGCGTTTGAAGAGTCTTCCAAGCAA  
 GGGCCCTGGCTTGTGCCTTATGAACCTTCACTATGGTGGCCGTGAAGATGCTTAAGGAAGAGGCCTC  
 TGCAGACATGCAAGCGGACTTTCAGAGGGAGGGCCCTCATGGCAGAGTTTGACAACCCCAACATTGTG  
 AAACCTTAGGTGTGTGTGCCGTTGGGAAGCCGATGTGTCTGCTTTGAATATATGGCCTATGGTGACC  
 TCAATGAGTTCCTCCGAAGTATGTCCCGCACACTGTTTGACGCTCAGCCACAGTGACCTGTCCACGAG  
 GGCTCGGGTGTCTAGCCCTGGTCTCCACCACTGTCTGTGCAGAACAGCTCTGCATTGCCAGGCAGGTG  
 GCAGCTGGCATGGCCTACCTTTCAGAGCGCAAGTTGTCCACCGGACTTAGCTACCAGGAACTGCCTGG  
 TTGGGGAGACCATGGTGGTAAAATTGCAGACTTTGGCCTCTCCAGGAACATCTATTCCGACAGCTACTA  
 CAAAGCTGATGGAATGACGCCATCCCTATCCGCTGGATGCCGCCGAGTCTATCTTCTACAACCCTACT  
 ACCACTGAGTCGGATGTATGGCCATAGGTGTGGTCTCTGGGAGATCTTCTCTATGGGCTGCAGCCCT  
 ACTATGGAATGGCCACGAGGAGGTCATTTACTATGTGAGAGATGGCAACATCCTCGCCTGCCCTGAGAA  
 CTGCCCTTGGAACTGTACAACCTCATGCGCCTGTGTTGGAGCAAGCTGCCTGCTGATAGACCCAGCTTC  
 TGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAGCAGAGGGAACGGTGGTGT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001037130  
**Insert Size:** 2583 bp

<b>OTI Disclaimer:</b>	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).
<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_001037130.1</a> , <a href="#">NP_001032207.1</a>
<b>RefSeq Size:</b>	3330 bp
<b>RefSeq ORF:</b>	2583 bp
<b>Locus ID:</b>	18198
<b>UniProt ID:</b>	<a href="#">Q61006</a>
<b>Cytogenetics:</b>	4 31.87 cM
<b>Gene Summary:</b>	<p>This gene encodes a member of the protein tyrosine kinase family. The encoded protein is a type 1 receptor-like protein located in muscle membrane that is activated by the heparan sulfate proteoglycan agrin released by nerve cells. The encoded protein activates signaling cascades responsible for multiple aspects of motor neuron and muscle development, including organization of the postsynaptic membrane, synaptic gene transcription, patterning of skeletal muscle, anchoring of acetylcholinesterase, and guidance of motor axons. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (5) lacks three alternate, in-frame segments in the coding region, compared to variant 1. The encoded isoform (5) is shorter than isoform 1.</p>