

## Product datasheet for **MC222315**

### Musk (NM\_001037128) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037128) 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:** >MC222315 representing NM\_001037128  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC  
 TTCAAAAAGCCCTGTCATCACCACGCCTTTGAACTGTAGATGCCTTGGTTGAAGAAGTAGCGACTTT  
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG  
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG  
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGGTGGCCCTGCAAGT  
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAATAAATAGAGGGATTGAAGGCAGTTCTG  
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTGGATCAAGGGGGACAATGCTCTCAGGGAAA  
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA  
 GTACCGCTGTGTGCCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGAA  
 GACAGAGAACCTGAGCAGGACGCTAAAGTTTTGCAAGAATCCTGCGTGCCTGAAATCCCAATGTCA  
 CCTTTGGTTCTTTGTAACCCTACGCTGCACAGCAATAGGCATCCCTGTCCCCACCATCAGCTGGATTGA  
 AAACGGAATGCTGTTTCTTCAGGTTCCATTCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTC  
 CAGCTCTTCATCACAAGCCAGGACTCTACATGCATAGCTACCAATAAGCACGGAGAAAAAGTTTCAGTA  
 CCGCAAAGGCTGCAGCCACTGTCAGCATAGCAGAAATGGAGTAAGTCACAGAAAGACAGCCAAAGGCTACTG  
 TGCCAGTACAGAGGGGAGGTGTGTGATGCAGTCTGGCGAAAGATGCTCTTGTCTTCTCAACACCTCC  
 TACCGGGACCCGAGGACGCCAGGAGCTGTGATCCACTGCGTGAATGAGCTGAAGCTGTGAGTGT  
 CACTGTGCCGGCCAGCTGTGAGGCTGTCTGTGTAACCACTCTTCCAAGAGTGCAGCCCTGGAGTGGT  
 ACCTACTCCCATGCCATTTGCAGAGAGTACTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAAAGGAATGG  
 CAGGCAATGGAAGGAAAGGCCACCGGGCCCTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGT  
 GCAGCAAGCTTCCAGCATGCACCGGGACCCACAGCCTGCACAAGACTGCCATATTTAGATTATAAAAA  
 AGAAAACATAACAACATTTCCCGTCAATAACGTCTCCAGGCCGAGCGGGACATTCCAAACCTGCCTGCC  
 TCCACCTCTTCTTTGCCGTCTCGCTGCGTACTCCATGACCGTCATCATCTCCATCGTGTCCAGCTTTG  
 CCCTGTTTGTCTTCTCACCATCGTACTCTCTATTGCTGCCGAAGGAGGAAAGAATGAAAAATAAGAA  
 AAGAGAGTGCACCGGGTACCCTCACCACGTTGCCTTCCGAGCTCCTGCTGGATAGGCTCCATCCCAAC  
 CCCATGTACCAGAGGATGCCACTCCTTCTGAATCCTAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACA  
 TTGAGTATGTCGAGACATCGGAGAGGGGCGTTTGAAGAGTCTTCCAAGCAAGGGCCCTGGCTTGCT  
 GCCTTATGAACCTTTCACTATGGTGGCCGTGAAGATGCTTAAGGAAGAGGCCCTCTGCAGACATGCAAGCG  
 GACTTTTCAGAGGGAGCGGCCCTCATGGCAGAGTTTGACAACCCCAACATTGTGAAACTCTTAGGTGTGT  
 GTGCCGTTGGGAAGCCGATGTGTCTGCTCTTGAATATATGGCCTATGGTGACCTCAATGAGTTCCTCCG  
 AAGTATGTCCCGCACACTGTTTGCAGCCTCAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCTAGC  
 CCTGGTCTCCACCCTGCTGTGCAGAACAGCTTGCATTGCCAGGCAGGTGGCAGCTGGCATGGCCT  
 ACCTTTCAGAGCGCAAGTTTGTCCACCGGGACTTAGCTACCAGGAAGTGCCTGGTGGGGAGACCATGGT  
 GGTGAAAATTGCAGACTTTGGCCTCTCCAGGAACATCTATTCCGCAGACTACTACAAAGCTGATGGAAAT  
 GACGCCATCCCTATCCGCTGGATGCCGCCGAGTCTATCTTCTACAACCGCTACACCACTGAGTCGGATG  
 TATGGGCCTATGGTGTGGTCTCTGGGAGATCTTCTCCTATGGGCTGCAGCCCTACTATGGAATGGCCCA  
 CGAGGAGGTCAATTAATGTGAGAGATGGCAACATCCTCGCCTGCCCTGAGAACTGCCCTTGGAACTG  
 TACAACCTCATGCGCCTGTGTTGGAGCAAGCTGCCTGCTGATAGACCCAGCTTCTGCAGTATCCACAGGA  
 TCCTGCAGCGCATGTGCGAGAGAGCAGAGGGAACGGTGGGTGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001037128  
**Insert Size:** 2637 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_001037128.1</a> , <a href="#">NP_001032205.1</a>
<b>RefSeq Size:</b>	3384 bp
<b>RefSeq ORF:</b>	2637 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 lacks an alternate, in-frame segment in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>