

Product datasheet for **MC222416**

Musk (NM_001037127) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037127) 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)



[View online »](#)

Fully Sequenced ORF: >MC222416 representing NM_001037127
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAAGCCCTGTCAACACCGCCTTTGAACTGTAGATGCCTTGGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGGTGGCCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAATAAATAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTCCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGAA
 GACAGAGAACCTGAGCAGGACGCTAAAGTTTTTGCAAGAATCCTGCGTGCCTGAAATCCACAATGTCA
 CCTTTGGTTCTTTGTAACCCTACGCTGCACAGCAATAGGCATCCCTGTCCCCACCATCAGCTGGATTGA
 AAACGGAAATGCTGTTTCTTCAGGTTCCATTCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTC
 CAGCTCTTCATCACAAGCCAGGACTCTACATGCATAGCTACCAATAAGCACGGAGAAAAAGTTTCAGTA
 CCGCAAAGGCTGCAGCCACTGTCAGCATAGCAGTCCCTCCTCCGTGGTTTTCTATGGATACTTCTTTCT
 ATGGACAGAATGGAGTAAGTCACAGAAAGACAGCAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGT
 GATGCAGTCTGGCGAAAGATGCTCTTGTCTTCAACACCTCCTACCGGACCCCGAGGACGCCAGG
 AGCTGTGATCCACACTGCGTGGAAATGAGCTGAAGGCTGTGAGTCCACTGTGCCGGCCAGTCTGTGCG
 TCTGCTGTGTAACCACCTTCCAAGAGTGCAGCCCTGGAGTGGTACCTACTCCATGCCATTTGCAGA
 GAGTACTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAGGAATGGCAGGCAATGGAAGGAAAGGCCACC
 GGGGCCTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGTGCAGCAAGCTTCCCAGCATGCACCG
 GGACCCACAGCCTGCACAAGACTGCCATATTTAGATTAAAAAAGAAAAACATAACAACATTCCCGTCA
 ATAACGTCTCCAGGCCGAGCGCGGACATTCCAAACCTGCCTGCCTCCACCTTCTCTTTGCCGTCTCGC
 CTGCGTACTCCATGACCGTCATCATCTCCATCGTGTCCAGCTTTGCCCTGTTTGTCTTCTCACCATCGC
 TACTCTCTATTGCTGCCAAGGAGGAAAGAATGGAAAAAAGAAAAGAGAGTGCACCGCGGTGACCCTC
 ACCACGTTGCCTCCGAGCTCCTGCTGGATAGGCTCCATCCCAACCCCATGTACCAGAGGATGCCACTCC
 TTCTGAATCCTAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAGA
 GGGGGCGTTTGAAGAGTCTTCCAAGCAAGGGCCCTGGCTTGCTGCCTTATGAACCTTTCACTATGGTG
 GCCGTGAAGATGCTTAAGGAAGAGGCCTCTGCAGACATGCAAGCGGACTTTCAGAGGGAGGCGGCCCTCA
 TGGCAGAGTTTGACAACCCCAACATTGTGAAACTCTTAGGTGTGTGTGCCGTTGGGAAGCCGATGTGTCT
 GCTCTTTGAATATATGGCCTATGGTGACCTCAATGAGTTCTCCGAAGTATGTCCCGCACACTGTTTGC
 AGCCTCAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCTAGCCCTGGTCTCCACCACTGTCTGTG
 CAGAACAGCTCTGCATTGCCAGGCAGGTGGCAGCTGGCATGGCCTACCTTTCAGAGCGCAAGTTTGTCCA
 CCGGACTTAGCTACCAGGAAGCTGCTGGTTGGGGAGACCATGGTGGTGAATAATGCAGACTTTGGCCTC
 TCCAGGAACATCTATTCCGAGACTACTACAAAGCTGATGGAAATGACGCCATCCCTATCCGCTGGATGC
 CGCCCGAGTCTATCTTCTACAACCCTACACCACTGAGTCGGATGTATGGGCTATGGTGTGGTCTCTG
 GGAGATCTTCTCCTATGGGCTGCAGCCCTACTATGGAATGGCCACGAGGAGGTCAATTTACTATGTGAGA
 GATGGCAACATCCTCGCCTGCCCTGAGAACTGCCCTTGGAACTGTACAACCTCATGCGCCTGTGTGGGA
 GCAAGCTGCTGCTGATAGACCCAGCTTCTGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAGC
 AGAGGGAACGGTGGGTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001037127

Insert Size:	2682 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	NM_001037127.2 , NP_001032204.2
RefSeq Size:	3422 bp
RefSeq ORF:	2682 bp
Locus ID:	18198
Cytogenetics:	4 31.87 cM
Gene Summary:	<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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>