

Product datasheet for **MC222316**

Musk (NM_001037129) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037129) 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: >MC222316 representing NM_001037129
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAAGCCCCTGTCATCACCACGCCTTTGAACTGTAGATGCCTTGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGGTGCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAATAAATAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGAA
 GACAGAGAACCTGAGCAGGACGCTAAAGTTTTTGCAAGAATCCTGCGTGCCTGAAATCCACAATGTCA
 CCTTTGGTTCTTTGTAACCCTACGCTGCACAGCAATAGGCATCCCTGTCCCCACCATCAGCTGGATTGA
 AAACGGAAATGCTGTTTCTTCAGGTTCCATTCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTC
 CAGCTCTTCATCACAAGCCAGGACTCTACACATGCATAGCTACCAATAAGCACGGAGAAAAAGTTTCAGTA
 CCGCAAAGGCTGCAGCCACTGTCAGCATAGCAGAAATGGAGTAAGTCACAGAAAGACAGCCAAAGGCTACTG
 TGCCCAAGTACAGAGGGGAGGTGTGTGATGCAGTCTGGCGAAAGATGCTCTTGTCTTCTCAACACCTCC
 TACCGGGACCCCGAGGACGCCAGGAGCTGCTGATCCACTGCGTGAATGAGCTGAAGCTGTGAGTC
 CACTGTGCCGGCCAGCTGCTGAGGCTCTGCTGTGTAACCACTCTTCCAAGAGTGCAGCCCTGGATGGT
 ACCTACTCCCATGCCATTTGCAGAGAGTACTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAAAGGAATGG
 CAGGCAATGGAAGGAAAGGCCACCGGGCCTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGT
 GCAGCAAGCTTCCAGCATGCACCGGGACCCACAGCCTGCACAAGACTGCCATATTTAGCATTCCCGTC
 AATAACGTCTCCAGGCCGAGCGCGGACATTCCAAACCTGCCTCCACCTCTTCTTTGCCGTCTCG
 CCTGCGTACTCCATGACCGTCATCATCTCCATCGTGTCCAGCTTTGCCCTGTTTGTCTTCTCACCATCG
 CTACTCTCTATTGCTGCCAAGGAGGAAAGAATGGAAAAATAAGAAAAGAGAGTCGACCGCGGTGACCTC
 CACCACGTTGCCTCCGAGCTCCTGCTGGATAGGCTCCATCCCAACCCATGTACCAGAGGATGCCACTC
 TTTCTGAATCCTAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAG
 AGGGGGCGTTTGAAGAGTCTTCCAAGCAAGGGCCCTGGCTTGCTGCCTTATGAACCTTCACTATGGT
 GGCCGTGAAGATGCTTAAGGAAGAGGCCTCTGCAGACATGCAAGCGGACTTTTCAGAGGGAGGCGGCCCTC
 ATGGCAGAGTTTGACAACCCCAACATTGTGAAACTCTTAGGTGTGTGTGCCGTTGGGAAGCCGATGTGTC
 TGCTCTTTGAATATATGGCCTATGGTGACCTCAATGAGTTCTCCGAAGTATGTCCCGCACACTGTTTG
 CAGCCTCAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCTAGCCCTGGTCTCCACCCTGCTCCTGT
 GCAGAACAGCTCTGCATTGCCAGGAGGTGGCAGCTGGCATGGCCTACCTTTTCAGAGCGCAAGTTTGTC
 ACCGGGACTTAGCTACCAGGAACTGCCTGGTTGGGGAGACCATGGTGGTAAAAATGCAGACTTTGGCCT
 CTCAGGAACATCTATTCGCGAGACTACTACAAAGCTGATGGAATGACGCCATCCCTATCCGCTGGATG
 CCGCCCGAGTCTATCTTCTACAACCGCTACACCACTGAGTCGGATGTATGGGCCTATGGTGTGGTCTCT
 GGGAGATCTTCTCCTATGGGCTGCAGCCCTACTATGGAATGGCCACGAGGAGGTCATTTACTATGTGAG
 AGATGGCAACATCCTCGCTGCCCTGAGAACTGCCCTTGGAACTGTACAACCTCATGCGCTGTGTTGG
 AGCAAGCTGCCTGCTGATAGACCAGCTTCTGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAG
 CAGAGGGAACGGTGGGTGCT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001037129
Insert Size: 2613 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).
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_001037129.1 , NP_001032206.1
RefSeq Size:	3360 bp
RefSeq ORF:	2613 bp
Locus ID:	18198
UniProt ID:	Q61006
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 (3) lacks two alternate, in-frame segments in the coding region, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>