

Product datasheet for **MC216274**

Musk (NM_001165996) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001165996) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Musk
Synonyms:	Mdk4; Mlk; Ns; Nsk1; Nsk2; Nsk3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216274 representing NM_001165996
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCCCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAGCCCTGTCATCACCACGCCTTTGAACTGTAGATGCCTTGGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTGGACCAGAAATAAAATTCTCATTAAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGTGGTCCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGAAAAAATAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGTCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCCAGAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGTT
 TTTGCAAGAATCCTGCGTCTCCTGAATCCACAATGTCACCTTTGGTTCCTTTGTAACCCACCGCTGCA
 CAGCAATAGGCATCCCTGTCCCCACCATCAGCTGGATTGAAAACGGAAATGCTGTTTCTTCAGGTTCCAT
 TCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTCCAGCTTTCATCACAAAGCCAGGACTCTAC
 ACATGCATAGCTACCAATAAGCACGGAGAAAAGTTCAAGTACCGCAAAGGCTGCAGCCACTGTCAGCATAG
 CAGAATGGAGTAAGTACAGAAAAGACAGCAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGTGATGC
 AGTCTGGCGAAAGATGCTCTTGTCTTCTTCAACACCTCCTACCGGGACCCCGAGGACGCCAGGAGCTG
 CTGATCCACACTGCGTGAATGAGCTGAAGGCTGTGAGTCCACTGTGCCGCCAGCTGTGAGGCTCTGC
 TGTGTAACCACCTTTCCAAGAGTGCAGCCCTGGAGTGGTACTACTCCCATGCCATTTGCAGAGAGTA
 CTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAAAGGAATGGCAGGCAATGGAAGGAAAGGCCACCGGGGC
 CTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGTGCAGCAAGCTTCCCAGCATGCACCGGACC
 CCACAGCCTGCACAAGACTGCCATATTTAGGTAACAAAGAAGTTCCTCCAGACTTTGGAAGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001165996

Insert Size: 1395 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:

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_001165996.1](#), [NP_001159468.1](#)

RefSeq Size: 1747 bp

RefSeq ORF: 1395 bp

Locus ID: 18198

Cytogenetics: 4 31.87 cM

Gene Summary: 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]

Transcript Variant: This variant (6) lacks an alternate in-frame exon and uses an alternate in-frame splice site in the central coding region, and differs in the presence and absence of exons in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (6) has a distinct C-terminus and is shorter than 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.