

Product datasheet for **MR226026**

Musk (NM_001037127) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037127) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226026 representing NM_001037127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAAGCCCTGTCAACACGCCTTTGAACTGTAGATGCCTTGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGTGGTCCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAAAAATAAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCAAACCATCTGTGCTCCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGAA
 GACAGAGAACCTGAGCAGGACGCTAAAGTTTTTGCAAGAATCCTGCGTGCCTGAAATCCCAACAATGTCA
 CCTTTGGTTCTTTGTAACCCTACGCTGCACAGCAATAGGCATCCCTGTCCCCACCATCAGCTGGATTGA
 AAACGGAATGCTGTTTCTTTCAGGTTCCATTCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTC
 CAGCTCTTCATCACAAGCCAGGACTCTACATAGCATAGCTACCAATAAGCACGGAGAAAAGTTTCAGTA
 CCGCAAAGGCTGCAGCCACTGTCAGCATAGCAGTCCCTCCTCCGTGGTTTTCTATGGATACTTCTTTCT
 ATGGACAGAATGGAGTAAGTACAGAAAGACAGCAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGT
 GATGCAGTCCCTGGCGAAAGATGCTCTTGTCTTCAACACCTCCTACCGGACCCCGAGGACGCCAGG
 AGCTGTGATCCACACTGCGTGGAAATGAGCTGAAGGCTGTGAGTCCACTGTGCCGGCCAGCTGTGAGG
 TCTGCTGTGTAACCACCTCTTCCAAGAGTGCAGCCCTGGAGTGGTACCTACTCCATGCCCATTTGCAGA
 GAGTACTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAAGGAATGGCAGGCAATGGAAGGAAAGGCCACC
 GGGCCTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGTGCAGCAAGCTTCCCAGCATGCACCG
 GGACCCACAGCCTGCACAAGACTGCCATATTTAGATTAAAAAAGAAAACATAACAACATTCCCGTCA
 ATAACGTCTCCAGGCCGAGCGCGGACATTCCAAACCTGCCTGCCTCCACCTCTTCTTTGCCGTCTCGC
 CTGCGTACTCCATGACCGTCATCATCTCCATCGTGTCCAGCTTTGCCCTGTTTGTCTTCTCACCATCGC
 TACTCTCTATTGCTGCCAAGGAGGAAAGAATGGAAAAAAGAAAAGAGAGTGCACCGCGGTGACCCTC
 ACCACGTTGCCTCCGAGCTCCTGCTGGATAGGCTCCATCCCAACCCCATGTACCAGAGGATGCCACTCC
 TTCTGAATCCTAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAGA
 GGGGGCGTTTGAAGAGTCTTCCAAGCAAGGGCCCTGGCTTGCTGCCTTATGAACCTTTCACTATGGTG
 GCCGTGAAGATGCTTAAGGAAGAGGCCTCTGCAGACATGCAAGCGGACTTTCAGAGGGAGGCGGCCCTCA
 TGGCAGAGTTTGACAACCCCAACATTGTGAAACTCTTAGTGTGTGTGCCGTTGGGAAGCCGATGTGTCT
 GCTCTTTGAATATATGGCCTATGGTGACCTCAATGAGTTCTCCGAAGTATGTCCCCGCACACTGTTTGC
 AGCCTCAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCTAGCCCTGGTCTCCACCACTGTCTGTG
 CAGAACAGCTCTGCATTGCCAGGCAGGTGGCAGCTGGCATGGCCTACCTTTCAGAGCGCAAGTTTGTCCA
 CCGGACTTAGCTACCAGGAAGCTGCTGGTTGGGGAGACCATGGTGGTAAAAATTGCAGACTTTGGCCTC
 TCCAGGAACATCTATTCCGAGACTACTACAAAGCTGATGGAAATGACGCCATCCCTATCCGATGGATGC
 CGCCCGAGTCTATCTTCTACAACCGCTACACCACTGAGTCGATGTATGGGCTATGGTGTGGTCTCTG
 GGAGATCTTCTCCTATGGGCTGCAGCCCTACTATGGAATGGCCACGAGGAGGTCACTTACTATGTGAGA
 GATGGCAACATCCTCGCCTGCCCTGAGAACTGCCCTTGGAACTGTACAACCTCATGCGCCTGTGTGGAA
 GCAAGCTGCTGCTGATAGACCCAGCTTCTGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAGC
 AGAGGGAACGGTGGGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226026 representing NM_001037127
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MRELVNIPLLQMLTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCAVESYPQPEISWTRNKILIKL
 FDTRYSIRENGQLLTILSVEDSDGIYCCIANNGVGGAVESCGALQVKMKPKITRPPINVKIEGLKAVL
 PCTTMGNPKPSVSWIKGDNALRENSRIAVLESGSLRIHNVQKEDAGQYRCVAKNSLGTAYSKLVKLEVEE
 DREPEQDAKVFARILRAPESHNVTFGFSFVTLRCTAIGIPVPTISWIENGNVSSGSIQESVKDRVIDSRL
 QLFITKPLGLYTCIATNKHGEKFKSTAKAAATVSIIVPPPWF SMDTSFLWTEWSKSKQDSQGYCAQYRGEVC
 DAVLAKDALVFFNTSYRDPEDAQELL IHTAWNELKAVSPLCRPAEALLCNHLFQECSPGVVPTPMPICR
 EYCLAVKELFCAKEWQAMEGKAHRGLYRSGMHLLPVPECSKLPMSHRDPTACTRLPYLDYKKENITTFPS
 ITSSRPSADIPNLPASTSSFAVSPAYSMTVIISIVSSFALFALLTIATLYCRRRKEWKNKKREAVTL
 TTLPESELLDRLHPNPMYQRMPLLLNPKLLSLEYPRNNIEYVRDIGEGAFGRVFQARAPGLLPYEPFTMV
 AVKMLKEEASADMQADFQREAAALMAEFDNPNIVKLLGCAVKGPMCLLFEYMAVGDLNEFLRMSPHTV
 SLSHSDLSTRARVSSPGPPPLSCAEQLCIARQVAAGMAYLSERKFVHRDLATRNCLVGETMVVKIADFL
 SRNIYSADYYKADGNDIPIRWMPPESIFYNRYTTESDVWAYGVVLEIFSYGLQPYYGMAHEEVIYVYR
 DGNILACPENCPLLELYNLMRLCWSKLPADRPSFCSIHRILQRMCEAEGTVGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

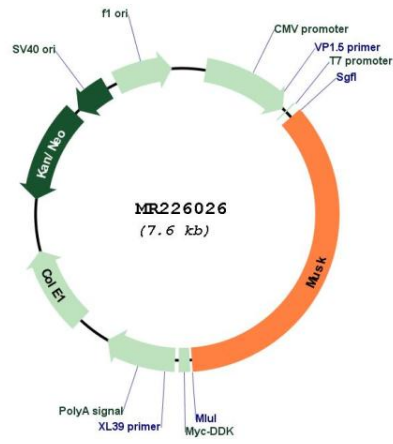


* The last codon before the Stop codon of the ORF

ACCN: NM_001037127

ORF Size:	2679 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>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<u>NM_001037127.2</u> , <u>NP_001032204.2</u>
RefSeq Size:	3422 bp
RefSeq ORF:	2682 bp
Locus ID:	18198
Cytogenetics:	4 31.87 cM
MW:	100.1 kDa
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>

Product images:



Circular map for MR226026