

Product datasheet for **MR226302**

Musk (NM_001037130) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037130) 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:**

>MR226302 representing NM_001037130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCCCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAGCCCTGTCAACACCGCCTTTGAAACTGTAGATGCCTTGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGTGGTCCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAAAAATAATAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTCCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGTT
 TTTGCAAGAATCCTGCGTCTCCTGAATCCACAATGTCACCTTTGGTTCTTTGTAACCCACGCTGCA
 CAGCAATAGGCATCCCTGTCCCAACCATCAGCTGGATTGAAAACGGAAATGCTGTTTCTTCAGGTTCCAT
 TCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTCCAGCTCTTCATCACAAAGCCAGGACTCTAC
 ACATGCATAGCTACCAATAAGCACGGAGAAAAGTTCAGTACCGCAAAGGCTGCAGCCACTGTCAGCATAG
 CAGAATGGAGTAAGTACAGAAAAGACAGCAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGTGATGC
 AGTCTGGCGAAAGATGCTCTTGTCTTCTCAACACCTCCTACCGGACCCCGAGGACGCCAGGAGCTG
 CTGATCCACACTGCGTGAATGAGCTGAAGGCTGTGAGTCCACTGTGCCGCCAGCTGCTGAGGCTGTC
 TGTGTAACCACCTCTTCCAAGAGTGCAGCCCTGGAGTGGTACTACTCCCATGCCATTTGCACAGTGA
 CTGCTGGCGGTAAGGAGCTCTTCTGTGCAAAAGGAATGGCAGGCAATGGAAGGAAAGGCCACCGGGGC
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 CCACAGCCTGCACAAGACTGCCATATTTAGCATTCCCCTCAATAACGTCCTCCAGGCCGAGCGGGACAT
 TCCAAACCTGCCTGCCTCCACCTCTTCTTTGCCGCTCGCCTGCGTACTCCATGACCGTCATCATCTCC
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 AATGGAATAAAGAAAAGAGAGTCGACCGCGGTGACCCTCACCAGTTCCTTCCGAGCTCCTGCTGGA
 TAGGCTCCATCCCAACCCATGTACCAGAGGATGCCACTCCTTCTGAATCCTAAGTTGCTCAGCCTGGAG
 TATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAGAGGGGCGTTTGAAGAGTCTTCCAAGCAA
 GGGCCCTGGCTTGTGCTTATGAACCTTTCACTATGGTGGCCGTGAAGATGCTTAAGGAAGAGGCCTC
 TGACAGATGCAAGCGGACTTTCAGAGGGAGGGCCCTCATGGCAGAGTTTGACAACCCCAACATTGTG
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 TCAATGAGTTCCTCCGAAGTATGTCCCGCACACTGTTTGCAGCCTCAGCCACAGTGACCTGTCCACGAG
 GGCTCGGGTGTCTAGCCCTGGTCTCCACCACTGTCTGTGCAGAACAGCTCTGCATTGCCAGGCAGGTG
 GCAGCTGGCATGGCCTACCTTTCAGAGCGCAAGTTGTCCACCGGGACTTAGCTACCAGGAACTGCCTGG
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 ACTATGGAATGGCCACGAGGAGGTCATTTACTATGTGAGAGATGGCAACATCCTCGCCTGCCCTGAGAA
 CTGCCCTTGGAACTGTACAACCTCATGCGCCTGTGTTGGAGCAAGCTGCCTGCTGATAGACCCAGCTTC
 TGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAGCAGAGGGAACGGTGGGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226302 representing NM_001037130
 Red=Cloning site Green=Tags(s)

MRELVNIPLLQMLTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCAVESYPQPEISWTRNKILIKL
 FDTRYSIRENGQLLTILSVEDSDGIYCCIANNGVGGAVESGALQVKMKPKITRPPINVKIEGLKAVL
 PCTTMGNPKPSVSWIKGDNALRENSRIAVLESGSLRIHNVQKEDAGQYRCVAKNSLGTAYSKLVKLEVEV
 FARILRAPESHNVTFGFSFVTLRCTAIGIPVPTISWIENGNVSSGSIQESVKDRVIDSRLQLFITKPGLY
 TCIATNKHGEKFKSTAKAAATVSIAEWSKSQKDSQGYCAQYRGEVCDAVLAKDALVFFNTSYRDPEDAQEL
 LIHTAWNELKAVSPLCRPAAEALLCNHLFQECSPGVVPTPMPICREYCLAVKELFCAKEWQAMEGKAHRG
 LYRSGMHLLPVPECSKLPMSHRDPTACTRLPYLAFPSITSSRPSADIPNLPASTSSFAVSPAYSMTVIIS
 IVSSFALFALLTIATLYCRRRKEWKNKKRESTAVTLTLPSELLLDRLHPNPMYQRMPLLLNPKLLSLE
 YPRNNIEYVRDIGEGAFGRVFQARAPGLLPYEPFTMVAVKMLKEEASADMQADFQREAALMAEFDNPNIV
 KLLGVCVAVGKPMCLLFEYMAVGDLNEFLRSMSPHTVCSLSHSDLSTRARVSSGPPPLSCAEQLCIARQV
 AAGMAYLSERKFVHRDLATRNLVGETMVVKIADFGLSRNIYSADYYKADGNDAIPIRWMPPEISIFYNRY
 TTESDVWAYGVVLWEIFSYGLQPYYGMAHEEVIYYVRDGNILACPENCLELYNLMRLCWSKLPADRPSF
 CSHRILQRMCEAEGTVGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

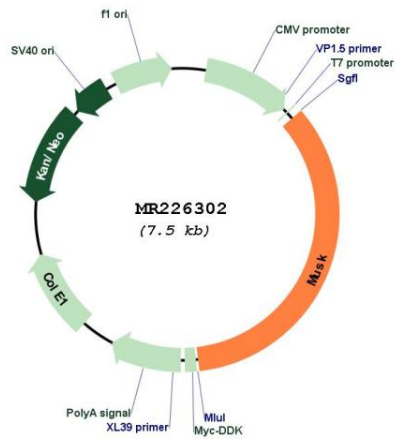
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001037130
ORF Size:	2580 bp
OTI Disclaimer:	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
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:	NM_001037130.1 , NP_001032207.1
RefSeq Size:	3330 bp
RefSeq ORF:	2583 bp
Locus ID:	18198
UniProt ID:	Q61006
Cytogenetics:	4 31.87 cM
MW:	96.1 kDa
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]

Product images:



Circular map for MR226302