

Product datasheet for **MG226300**

Musk (NM_010944) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_010944) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Musk
Synonyms:	Mdk4; Mlk; Ns; Nsk1; Nsk2; Nsk3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226300 representing NM_010944
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAAGCCCCTGTCATCACCACGCCTTTGAAACTGTAGATGCCTTGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGTGGTCCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAAAAATAAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGTT
 TTTGCAAGAATCCTGCGTCTCCTGAATCCACAATGTCACCTTTGGTTCTTTGTAACCCACGCTGCA
 CAGCAATAGGCATCCCTGTCCCAACCATCAGCTGGATTGAAAACGGAAATGCTGTTTCTTCAGGTTCCAT
 TCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTCCAGCTCTTCATCACAAAGCCAGGACTCTAC
 ACATGCATAGCTACCAATAAGCACGGAGAAAAGTTCAAGTACCGCAAAGGCTGCAGCCACTGTCAGCATAG
 CAGAATGGAGTAAGTACAGAAAAGACAGCAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGTGATGC
 AGTCTGGCGAAAGATGCTCTTGTCTTCTCAACACCTCCTACCGGACCCCGAGGACGCCAGGAGCTG
 CTGATCCACACTGCGTGGAAATGAGCTGAAGGCTGTGAGTCCACTGTGCCGGCCAGCTGTGAGGCTGTC
 TGTGTAACCACTCTTCCAAGAGTGCAGCCCTGGAGTGGTACTACTCCCATGCCATTTGCAGAGAGAT
 CTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAAAGGAATGGCAGGCAATGGAAGGAAAGGCCACCGGGC
 CTCTACAGATCTGGGATGCATCTCCTTCCGGTACCAGAGTGCAGCAAGCTTCCCAGCATGCACCGGACC
 CCACAGCCTGCACAAGACTGCCATATTTAGATTATAAAAAAGAAAACATAACAACATTCCCGTCAATAAC
 GTCCTCCAGGCGAGCGCGGACATTCCAACCTGCCTGCCTCCACCTCTTCTTTGCCGTCTCGCTGCG
 TACTCCATGACCGTCATCATCTCCATCGTGTCCAGCTTTGCCCTGTTTGTCTTCTCACCATCGCTACTC
 TCTATTGTGCCGAAGGAGGAAAGAATGGAAAAATAAGAAAAGAGAGTGCACCGCGTGACCCTCACCAC
 GTTGCCTCCGAGCTCCTGCTGGATAGGCTCCATCCCAACCCATGTACCAGAGGATGCCACTCCTTCTG
 AATCCTAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAGAGGGGG
 CGTTTGAAGAGTCTTCCAAGCAAGGGCCCTGGCTTGTGCTTATGAACCTTTCACTATGGTGGCCGT
 GAAGATGCTTAAGGAAGAGGCCTCTGCAGACATGCAAGCGGACTTTCAGAGGGAGGCGGCCCTCATGGCA
 GAGTTTGACAACCCCAACATTGTGAAACTCTTAGGTGTGTGTGCCGTTGGGAAGCCGATGTGTCTGCTCT
 TTGAATATATGGCCTATGGTGACCTCAATGAGTTCCTCCGAAGTATGTCCCCGCACACTGTTTGCAGCCT
 CAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCTAGCCCTGGTCTCCACCACTGTCTGTGCAGAA
 CAGCTCTGCATTGCCAGGAGGTGGCAGCTGGCATGGCCTACCTTTCAGAGCGCAAGTTTGTCCACCGGG
 ACTTAGCTACCAGGAAGTGCCTGGTTGGGAGACCATGGTGGTGAATAATGCAGACTTTGGCCTCTCCAG
 GAACATCTATTCGACAGACTACTACAAAGCTGATGGAAATGACGCCATCCCTATCCGCTGGATGCCGCC
 GAGTCTATCTTACAACCGCTACACCACTGAGTCGGATGTATGGGCCTATGGTGTGGTCTCTGGGAGA
 TCTTCTCTATGGGCTGCAGCCCTACTATGGAATGGCCACGAGGAGGTCAATTTACTATGTGAGAGATGG
 CAACATCTCGCCTGCCCTGAGAACTGCCCTTGGAACTGTACAACCTCATGCGCCTGTGTTGGAGCAAG
 CTGCCTGCTGATAGACCCAGCTTCTGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAGCAGAGG
 GAACGGTGGGTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226300 representing NM_010944
 Red=Cloning site Green=Tags(s)

MRELVNIPLLQMLTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCAVESYPQPEISWTRNKILIKL
 FDTRYSIRENGQLLTILSVEDSDGIYCCIANNGVGGAVESGALQVKMKPKITRPPINVKIEGLKAVL
 PCTTMGNPKPSVSWIKGDNALRENSRIAVLESGSLRIHNVQKEDAGQYRCVAKNSLGTAYSKLVKLEVEV
 FARILRAPESHNVTFGSFVTLRCTAIGIPVPTISWIENGNVSSGSIQESVKDRVIDSRLQLFITKPGLY
 TCIATNKHGEKFKSTAKAAATVSIAEWSKSQKDSQGYCAQYRGEVCDAVLAKDALVFFNTSYRDPEDAQEL
 LIHTAWNELKAVSPLCRPAEALLCNHLFQECSPGVVPTPMPICREYCLAVKELFCAKEWQAMEGKAHRG
 LYRSGMHLLPVPECSKLPMSHRDPTACTRLPYLDYKKNITTFPSITSSRPSADIPNLPASTSSFAVSPA
 YSMTVIIISIVSSFALFALLTIATLYCCRRRKEWKNKKRESTAVLTTLTLPSELLDRLHPNPMYQRMPLLL
 NPKLLSLEYPRNIEYVRDIGEGAFGRVFQARAPGLLPYEPFTMVAVKMLKEEASADMQADFQREAAALMA
 EFDNPNIKLLGCAVKGPMCLLFEYMAYGDLNEFLRSMSPHTVCSLSHSDLSTRARVSSPGPPPLSCAE
 QLCIARQVAAGMAYLSERKFVHRDLATRNCLVGETMVVKIADFGLSRNIYSADYKADGNDAIPIRWMP
 ESIFYNRYTTESDVWAYGVVLWEIFSYGLQPYGMAHEEVIYYVRDGNILACPENCPLELYNLMRLCWSK
 LPADRPSCSIHRILQRMCEAEGTVGV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

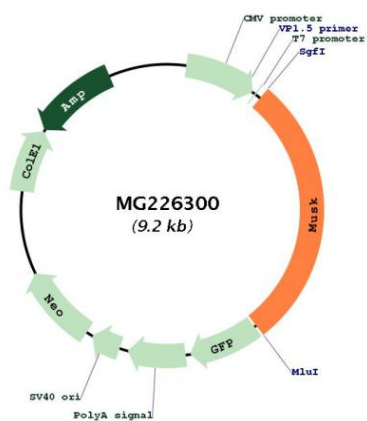
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_010944
ORF Size:	2604 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_010944.2 , NP_035074.2
RefSeq Size:	3354 bp
RefSeq ORF:	2607 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>

Product images:



Circular map for MG226300