

Product datasheet for **MG226298**

Musk (NM_001037129) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037129) 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:**

>MG226298 representing NM_001037129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAGAGCTTGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACTGAGAAAC
 TTCAAAAAGCCCCTGTCATCACCACGCCTCTTGAACTGTAGATGCCTTGTTGAAGAAGTAGCGACTTT
 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
 TTTGACACCCGCTACAGCATCCGGGAGAATGGTCAGCTCCTCACCATTCTGAGCGTGAAGACAGTGATG
 ATGGCATCTACTGCTGCATAGCCAACAATGGAGTGGGAGGAGCCGTGGAGAGTTGGTGCCTGCAAGT
 GAAGATGAAACCTAAAATAACTCGTCTCCATTAATGTAATAAATAGAGGGATTGAAGGCAGTTCTG
 CCGTGCCTACGATGGTAACCCCAAACCATCTGTGCTGGATCAAGGGGGACAATGCTCTCAGGGAAA
 ATTCAGAAATCGAGTTCTTGAATCTGGGAGCTTAAGGATCCATAATGTGCAAAAGGAAGATGCAGGACA
 GTACCGCTGTGTGCCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGAA
 GACAGAGAACCTGAGCAGGACGCTAAAGTTTTTGCAAGAATCCTGCGTGCCTGAAATCCACAATGTCA
 CCTTTGGTTCTTTGTAACCCTACGCTGCACAGCAATAGGCATCCCTGTCCCCACCATCAGCTGGATTGA
 AAACGGAATGCTGTTTCTCAGGTTCCATTCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTC
 CAGCTCTTCATCACAAGCCAGGACTCTACACATGCATAGCTACCAATAAGCACGGAGAAAAGTTTCAGTA
 CCGCAAAGGCTGCAGCCACTGTCAGCATAGCAGAAATGGAGTAAGTACAGAAAGACAGCCAAAGGCTACTG
 TGCCCAAGTACAGAGGGGAGGTGTGTGATGCAGTCTGGCGAAAGATGCTCTTGTCTTCTCAACACCTCC
 TACCGGGACCCCGAGGACGCCAGGAGCTGCTGATCCACTGCGTGAATGAGCTGAAGCTGTGAGTCT
 CACTGTGCCGGCCAGCTGCTGAGGCTCTGCTGTGTAACCACTCTTCCAAGAGTGCAGCCCTGGATGGT
 ACCTACTCCCATGCCATTTGCAGAGAGTACTGCCTGGCGGTAAGGAGCTCTTCTGTGCAAGGAATGG
 CAGGCAATGGAAGGAAAGGCCACCGGGCCTCTACAGATCTGGGATGCATCTCCTTCCGGTACCGAGT
 GCAGCAAGCTTCCAGCATGCACCGGGACCCACAGCCTGCACAAGACTGCCATATTTAGCATTCCCGTC
 AATAACGTCTCCAGGCCGAGCGCGGACATTCAAACCTGCCTGCCTCCACCTCTTCTTTGCCGTCTCG
 CCTGCGTACTCCATGACCGTCATCATCTCCATCGTGTCCAGCTTTGCCCTGTTTGTCTTCTCACCATCG
 CTACTCTATTGCTGCCAAGGAGGAAAGAATGGAAAAATAAGAAAAGAGAGTCGACCGCGGTGACCCCT
 CACCACGTTGCCCTCCGAGCTCCTGCTGGATAGGCTCCATCCCAACCCATGTACCAGAGGATGCCACTC
 TTTCTGAATCCTAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATTGAGTATGTCCGAGACATCGGAG
 AGGGGGCTTTGGAAGAGTCTTCCAAGCAAGGGCCCTGGCTTGTGCCTTATGAACCTTCACTATGGT
 GGCCGTGAAGATGCTTAAGGAAGAGGCCTCTGCAGACATGCAAGCGGACTTTTCAGAGGGAGGCGGCCCTC
 ATGGCAGAGTTTGACAACCCCAACATTGTGAACTCTTAGGTGTGTGTGCCGTTGGGAAGCCGATGTGTC
 TGCTCTTTGAATATATGGCCTATGGTGACCTCAATGAGTTCCTCCGAAGTATGTCCCGCACACTGTTTG
 CAGCCTCAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCTAGCCCTGGTCTCCACCCTGTCTGT
 GCAGAACAGCTCTGCATTGCCAGGAGGTGGCAGCTGGCATGGCCTACCTTTCAGAGCGCAAGTTTGTC
 ACCGGGACTTAGCTACCAGGAAGTGCCTGGTTGGGAGACCATGGTGGTAAAAATTCAGACTTTGGCCT
 CTCAGGAACATCTATTCGAGACTACTACAAAGCTGATGGAATGACGCCATCCCTATCCGCTGGATG
 CCGCCCGAGTCTATCTTCTACAACCGCTACACCCTGAGTCGGATGTATGGGCCTATGGTGTGGTCTCT
 GGGAGATCTTCTCCTATGGGCTGCAGCCCTACTATGGAATGGCCACGAGGAGGTCATTTACTATGTGAG
 AGATGGCAACATCCTCGCTGCCCTGAGAACTGCCCTTGGAACTGTACAACCTCATGCGCTGTGTTGG
 AGCAAGCTGCCTGCTGATAGACCAGCTTCTGCAGTATCCACAGGATCCTGCAGCGCATGTGCGAGAGAG
 CAGAGGGAACGGTGGGTGTC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226298 representing NM_001037129
 Red=Cloning site Green=Tags(s)

MRELVNIPLLQMLTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCAVESYPPQPEISWTRNKILIKL
 FDTRYSIRENGQLLTILSVEDSDGIYCCIANNGVGGAVESGALQVKMKPKITRPPINVKIEGLKAVL
 PCTTMGNPKPSVSWIKGDNALRENSRIAVLESGSLRIHNVQKEDAGQYRCVAKNSLGTAYSKLVKLEVEE
 DREPEQDAKVFARILRAPESHNVTFGSFVTLRCTAIGIPVPTISWIENGNVSSGSIQESVKDRVIDSRL
 QLFITKPLYTCIATNKHGEKFKSTAKAAATVSIAEWSKSQKDSQGYCAQYRGEVCDAVLAKDALVFFNTS
 YRDPEDAQELLIHTAWNELKAVSPLCRPAEALLCNHLFQECSPGVVPTPMPICREYCLAVKELFCAKEW
 QAMEGKAHRLYRSGMHLLPVPECSKLPMSHRDPTACTRLPYLAFPSITSSRPSADIPNLPASTSSFAVS
 PAYSMTVIIISIVSSFALLTIATLYCCRRRKEWKNKKRESTAVTLTTLPELLEDRLHPNPMYQRMP
 LLNPKLLSLEYPRNIEYVRDIGEGAFGRVFQARAPGLLPYEPFTMVAVKMLKEEASADMQADFQREAA
 MAEFDNPNIVKLLGVCVAVGKPMCLLFEYMAYGDLNEFLRSMPHTVCSLSHSDLSTRARVSSPGPPPLSC
 AEQLCIARQVAAGMAYLSERKFVHRDLATRNLVGETMVVKIADFGLSRNIYSADYYKADGNDIAPIRWM
 PPESIFYNRYTTESDVWAYGVVLEIFSYGLQPYYGMAHEEVIYYVRDGNILACPENCLELYNLMRLCW
 SKLPADRPSFCSIHRILQRMCEAEGTVGV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

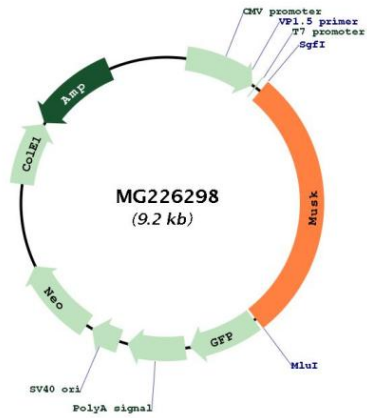
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_001037129
ORF Size:	2610 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_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>

Product images:



Circular map for MG226298