

Product datasheet for **MG226297**

Musk (NM_001037128) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Musk (NM_001037128) 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:**

>MG226297 representing NM_001037128
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

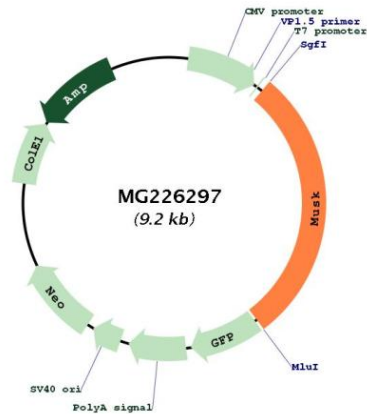
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 CATGTGTGCCGTGGAATCCTACCCTCAGCCGAGATTTCTTGACCAGAAATAAAATTCTCATTAAGCTG
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 GGTGAAAATTGCAGACTTTGGCCTCTCCAGGAACATCTATTCCGACAGTACTACAAAGCTGATGGAAAT
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 TATGGGCTATGGTGTGGTCTCTGGGAGATCTTCTCCTATGGGCTGCAGCCCTACTATGGAATGGCCCA
 CGAGGAGGTCAATTTACTATGTGAGAGATGGCAACATCCTCGCCTGCCCTGAGAACTGCCCTTGGAACTG
 TACAACCTCATGCGCCTGTGTTGGAGCAAGCTGCCTGCTGATAGACCCAGCTTCTGCAGTATCCACAGGA
 TCCTGCAGCGCATGTGCGAGAGAGCAGAGGGAACGGTGGGTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

ACCN:	NM_001037128
ORF Size:	2634 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:	NM_001037128.1 , NP_001032205.1
RefSeq Size:	3384 bp
RefSeq ORF:	2637 bp
Locus ID:	18198
UniProt ID:	Q61006
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]

Product images:


Circular map for MG226297