

Product datasheet for **RR210003**

Musk (NM_031061) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Musk (NM_031061) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Musk |
| Synonyms: | Nsk1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR210003 representing NM_031061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGCTCGTCAACATTCCACTGTTACAGATGCTCACCTGGTTGCCTTCAGCGGGACCGAGA
 AAC TTCCAAAAGCCCTGTCATCACCACGCCTTTGAACTGTAGATGCCTTAGTTGAAGAAGTGGCGACTTT
 CATGTGCGCGTGAATCCTACCCTCAGCCTGAAATTTCTGGACCAGAAATAAAATTCTCATCAAGCTG
 TTTGACACCCGCTACAGCATCCGAGAGAACGGTCAGCTCCTCACCATCCTGAGTGTGGAGGACAGTGATG
 ATGGCATCTACTGCTGCACAGCCAACAATGGAGTGGGAGGAGCGGTGAAAGTTGTGGCGCCCTGCAAGT
 GAAGATGAAGCCTAAAATAACTCGTCTCCCATCAATGTAAAAATAATTGAGGGATTGAAAGCAGTCTTA
 CCGTGCCTACGATGGTAACCCCAAGCCATCCGTGTCTGGATTAAGGGGGACAGTGTCTCAGGGAAA
 ATTCCAGGATTGCAGTTCTTGAATCTGGGAGTTAAGGATCCATAATGTGCAAAAGGAAGACGCAGGACA
 GTACCGATGTGTGCAAAAACAGCCTGGGCACAGCTTACTCAAACCTGGTGAAGCTGGAAGTGGAGGTT
 TTTGCAAGAATCCTGCGTCTCCTGAATCCACAATGTCACCTTTGGTTCTTTGTAACCCACGCTGCA
 CAGCAATAGGCATGCCTGTCCCAACCATCAGCTGGATTGAAAACGAAATGCTGTTTCTTCAGGTTCCAT
 TCAAGAGAATGTGAAAGACCGAGTGATTGACTCAAGACTCCAGCTCTTTATCACAAAGCCAGGACTCTAC
 ACATGCATAGCTACCAATAAGCATGGAGAGAAATTCAGTACCGCAAAGGCTGCAGCCACTGTCAGTATAG
 CAGAAATGGAGCAAATCACAGAAAGAAAGCAAAGGCTACTGTGCCAGTACAGAGGGGAGGTGTGTATGC
 CGTCTGGTGAAGACTCTTTGTCTTCTTCAACCTCCTATCCCGACCTGAGGAGGCCAAGAGCTG
 CTGATCCACACTGCGTGAATGAACTCAAGGCTGTGAGCCACTCTGCCAGCAGCTGCCGAGGCTGTC
 TGTGTAATCACCTCTTCCAGGAGTGCAGCCCTGGAGTGTACTACTCCTATGCCATTTGCAGAGAGTA
 CTGCTTGGCAGTAAAGGAGCTCTTCTGTGCAAAAGGAATGGCTGGCAATGGAAGGGAAGACCCACCGCGGA
 CTCTACAGATCCGGGATGCATTTCTCCCGGTCCCGAGTGCAGCAAGCTTCCCAGCATGCCACGAGACC
 CCACAGCCTGCACAAGACTGCCGATTTAGATTATAAAAAAGAAAACATAACAACATTCCTGCCATAAC
 GTCCTCAAGCCGAGCGTGGACATTCCAAACCTGCCTGCCTCCACGTCTTCTTCGCCGTCTCGCTGCG
 TACTCCATGACTGTCATCATCTCCATCATGTCTGCTTTGCGGTGTTGCTCTCCTCACCATCACTACTC
 TCTATTGCTGCCAAGGAGGAGAGAGTGGAAAAATAAGAAAAGAGAGTCCGCAGCGGTGACCCTCACCAC
 ATTGCCTCCGAGCTCCTGCTGGACAGGCTGCATCCCAACCCATGTACCAGAGGATGCCACTCCTTCTG
 AATCCCAAGTTGCTCAGCCTGGAGTATCCGAGGAATAACATCGAGTATGTCAGAGACATCGGAGAGGGAG
 CGTTTGAAGGGTCTTCAAGCGAGGGCCAGGCTTGCTTCTTATGAACCTTCACTATGGTGGCTGT
 GAAGATGCTGAAGGAGGAGGCTCCGCAGATATGCAGGCAGACTTTCAGAGGGAGGCAGCCCTCATGGCG
 GAGTTTGACAACCCCAACATTGTGAAGCTCTTAGGTGTGTGTGCTGTTGGGAAGCCAATGTGCCTGCTCT
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 CAGCCACAGTGACCTGTCCACGAGGGCTCGGGTGTCCAGCCCTGGTCTCCACCCCTGTCTTGTGCGGAA
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 ACTTAGCTACCAGGAAGTGCCTGGTGGAGAGAACAATGGTGGTGAATTTGCAGACTTTGGCCTCTCTAG
 GAACATCTACTCCGAGACTACTACAAAGCTGATGGAAACGATGCTATACCTATCCGCTGGATGCCACCC
 GAGTCTATCTTCTACAACCGCTACACCACGGAGTCAGATGTGTGGCTTATGGCGTGGTCTCTGGGAGA
 TCTTCTCTATGGACTGCAGCCCTACTATGGAATGGCCATGAGGAGGTCAATTTACTATGTGAGAGATGG
 TAACATCCTTGCCTGCCCTGAGAACTGTCCCTGGAAGTGTACAACCTTATGCGCTATGTTGGAGCAAG
 CTGCTGCAGACAGACCCAGCTTCTGCAGTATCCACCGGATCCTGCAGCGCATGTGCGAGAGAGCAGAGG
 GAACGGTAGGCGTC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210003 representing NM_031061
 Red=Cloning site Green=Tags(s)

MRELVNIPLLQMLTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCAVESYPQPEISWTRNKILIKL
 FDTRYSIRENGQLLTILSVEDSDGIYCCTANNGVGGAVESGALQVKMKPKITRPPINVKIEGLKAVL
 PCTTMGNPKPSVSWIKGDSALRENSRIAVLESGSLRIHNVQKEDAGQYRCVAKNSLGTAYSKLVKLEVEV
 FARILRAPESHNVTFGSFVTLRCTAIGMPVPTISWIENGNVSSGSIQENVKDRVIDSRLQLFITKPGLY
 TCIATNKHGEKFKSTAKAAATVSIAEWSKSQKESKGYCAQYRGEVCDAVLVKDSL VFFNTSYDPDEEAQEL
 LIHTAWNELKAVSPLCRPAAEALLCNHLFQECSPGVLPTPMPICREYCLAVKELFCAKEWLAMEGKTHRG
 LYRSGMHFLPVPECSKLPMSHQDPTACTRLPYLDYKKNITTFPSITSSKPSVDIPNLPASTSSFAVSPA
 YSMTVIIISIMSCFAV FALLTITTL YCCRRRREWKKNKRESAAVLTTLPSSELLDRLHPNPMYQRMPLLL
 NPKLLSLEYPRNIEYVRDIGEGAFGRVFQARAPGLLPYEPFTMVAVKMLKEEASADMQADFQREAAALMA
 EFDNPNIVKLLGCAVGMCLLFEYMAVDLNEFLRSMSPHTVCSLSHSDLSTRARVSSPGPPPLSCAE
 QLCIARQVAAGMAYLSERKFVHRDLATRNCLVGENMVVKIADFGLSRNIYSADYKADGNDAIPIRWMP
 ESIFYNRYTTESDVWAYGVVLWEIFSYGLQPYYGMAHEEVIYYVRDGNILACPENCLELYNLMRLCWSK
 LPADRPSCSIHRILQRMCEAEGTVGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

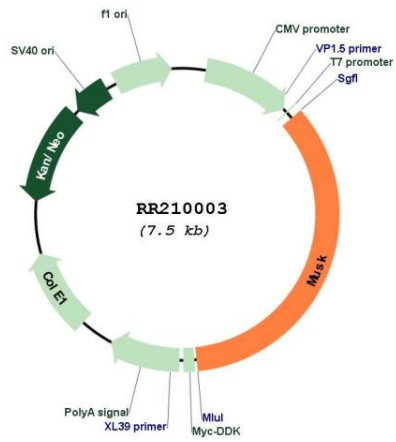
Sgfl-MluI

Cloning Scheme:



| | |
|-------------------------------|--|
| ACCN: | NM_031061 |
| ORF Size: | 2604 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_031061.1 , NP_112323.1 |
| RefSeq Size: | 2855 bp |
| RefSeq ORF: | 2607 bp |
| Locus ID: | 81725 |
| UniProt ID: | Q62838 |
| Cytogenetics: | 5q24 |
| MW: | 96.8 kDa |
| Gene Summary: | receptor tyrosine kinase expressed in myotomes, developing muscle and localized to the neuromuscular junction in the adult; expression is induced in response to injury or immobilization [RGD, Feb 2006] |

Product images:



Circular map for RR210003