

Product datasheet for **MR224232**

Dok7 (NM_172708) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dok7 (NM_172708) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok7
Synonyms:	A930013K19Rik; AW049091; Dok-7; EF-12; Oit5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224232 representing NM_172708
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGTCTACAAGACAAATGTGAACGCTCCAAGGCCCTTCGGGAGCGCAGCAGCCTCACCTGGAGG
 ACATCTGTGGCCTGGAGCCTGCCCTGCCCTATGAGGGCCTGGCCACACTCTGGCCATCATCTGCCTGTC
 TCAGGCTGTTATGCTGGCTTCGATAGCCATGAGGCCATGTGTGCTGGGATACCCGTATCCGCTACGCA
 CTGGGCGAGGTGCACAGTTCCATGTGACAGTAGCTCCTGGTACCAAAGTGGAGAGTGGTCCAGCCACTC
 TTCACCTCTGCAATGACATTCTGGTCTGGCCAGAGACATCCCTCCAACCGTCATGGGGCAGTGGAAAGCT
 GTCTGACCTCCGGCGTTACGGGGCTGTTCCGAATGGATTTCATCTTCAAGGCGGGACCAGGTGTGGGTAC
 TGGGCTGGAGTCTTCTTCTGTGCATCAGCTGAGGGAGAGCAGATGAGCTTCTGTTTACTGCATCGTCC
 GAGGCATCTCCCGACCAAAGGCCGTTGGGCTTCGGCCAGTCTCCAGACCCGAGTCTGGGGGACC
 CTCAGCCTCAGAAGAGCGTGTGCCAGGAAGCACTGGAAGCCCTGCAGCTAGAGAAGAGGCTCAGCCTG
 CTTTCTACTCTGGCCGGCCAGGCACTGGAGGGGATGACAGAAGTCTATCCAGTTCTTCTGAGGCTA
 GCCACTCGGACATCAGCGCCAGCAGCAGGCTCACTGCGTGGCCGGAGCAGTCTCATCTCGGCCGGCAC
 ATCACAAGAAGGACCAGGGCTGGTGGCTGCCAGGGCCAGGAGAAGCCATGCTGGGAGCCTCAAGGCCA
 CCCCTCAAGCCACTGCGGCTCGGCAGTTACAGGAGGTTGGCCGCAGAGCTCCTCTGACAGTGGCATTG
 CCACAGGCAGCCACTCCTTACTCTGGCAGTCTCCTCTTATGCCGGCAGCAACTGGACGTGTGGCG
 GGCCGGTGAAGATTTCGTTCTCTGCTCAGTCTGCCCCCTGGAGCCAGCGCACCTGAGCCAGACTGTGT
 GCCTGCCACCTGGGGCGCCGAGTACCAGGTGCCACGTCAGTACTGAGACACCCTATGACACACCCTGAA
 GCCTGCCACAGGCCCCAGAGACCCAGCCAGTCTCAGGGCAGCTCTGACCACGGTTCAGCCACAGA
 CTTGGGTGGTCAGGCGCCACAGGGTGTCCCTCCAGTTGGCTGGGAGCTCGCCGACGGGGACAGGCAACG
 GAAGGCCAGGCACTGACGCTGCGCTGCGGAGTCCATCCCTGGCGAGTCTGGGAAGCAGGCAGCCCCC
 ATGCAAGGCCGCTCCAGCTTTCTTTTGTGATGTTCAATCTGTGGCGGACTCAAGGTGATGGTACTTTC
 ATCCCCTGGATCACTGTGACGCATCCAGGATCTCCAGGGCGGGTGGTGTGATAGCCCTGGGCTGAG
 CGACCACAGTGAAGTGCACGATGTGAATATCCCCATCAGCCCCATCTCCAGACCCGAGCTGCACT
 ACATGGACTTGGAGCTCCCGGGGCCAGTGTGGTGTTCGAGGGGCCAGCACCTCCCGCTATGCCAGAT
 TGACATTGCACTACCGAGACAGCACATCGCTCGGGTCCGGCATGCGCAGACTCGGGAGGAACGGTTA
 CCAGAGTTGGAGCAGCGAAGAAGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224232 representing NM_172708
 Red=Cloning site Green=Tags(s)

MLVYKDKCERSKGLRERSLTLIEDICGLEPALPYEGLAHTLAIICLSQAVMLGFDSHEAMCAWDTRIRYA
 LGEVHRFHVTVAPGKLESGPATLHLNDILVLARDIPPTVMGQWKLSDLRRYGAVPNGFIFEGGTRCGY
 WAGVFFLSSAEGEQMSFLFDCIVRGISPTKGPFLRPVLPDPSSGGPSASEERVAQEALQLEKRLSL
 LSHSGRPGSGDDRSLSSSSSEASHSDISASSRLTAWPEQSSSSAGTSQEGPGLVAAQGPGEAMLGASRP
 PLKPLRPRQLQEVGRQSSSDSGIATGSHSSYSGFSSYAGSNLDVWRAGEEFGSLLSLPPGASAPEPRLC
 ACPPGAAEYQVPTSLRHHYDTPRSLRQAPRDPSPASQSSDHGSATDLGGQAPTGCPSSWLGARRRGQAT
 EGPGSDAALPSPSPGESWEAGSPHAGPPPAFFLSCSICGLKVMATSSPGFTVTHPGSPGRVAADSPGPE
 RPHSEPTYVNIPISPISRPQLHYMDLELPGASAGVIRGASTSRYAQIDIAATETAHRVGVVRAHQTREERL
 PELEQRKKGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9081_h07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_172708

ORF Size: 1710 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:
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_172708.4](#)

RefSeq Size: 2483 bp

RefSeq ORF: 1713 bp

Locus ID: 231134

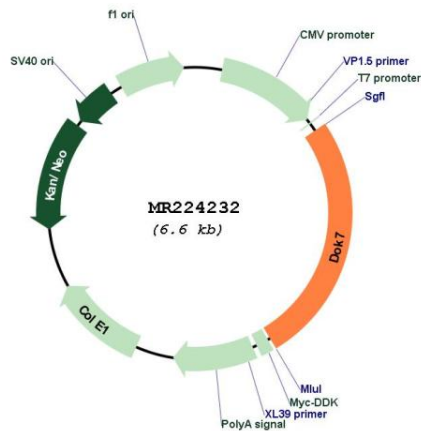
Cytogenetics: 5 B2

MW: 60.1 kDa

Gene Summary:

Probable muscle-intrinsic activator of MUSK that plays an essential role in neuromuscular synaptogenesis. Acts in aneural activation of MUSK and subsequent acetylcholine receptor (AChR) clustering in myotubes. Induces autophosphorylation of MUSK.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224232