

## Product datasheet for **MG224232**

### **Dok7 (NM\_172708) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dok7 (NM_172708) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dok7
Synonyms:	A930013K19Rik; AW049091; Dok-7; EF-12; Oit5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224232 representing NM\_172708  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGGTCTACAAGACAAATGTGAACGCTCCAAGGCCTTCGGGAGCGCAGCAGCCTCACCTGGAGG  
 ACATCTGTGGCCTGGAGCCTGCCCTGCCCTATGAGGGCCTGGCCACACTCTGGCCATCATCTGCCGTGC  
 TCAGGCTGTTATGCTGGCTTCGATAGCCATGAGGCCATGTGTGCTGGGATACCCGTATCCGCTACGCA  
 CTGGGCGAGGTGCACAGTTCCATGTGACAGTAGCTCCTGGTACCAAAGTGGAGAGTGGTCCAGCCACTC  
 TTCACCTCTGCAATGACATTCTGGTCTGGCCAGAGACATCCCTCCAACCGTCATGGGGCAGTGAAGCT  
 GTCTGACCTCCGGCGTTACGGGGCTGTTCCGAATGGATTTCATCTTCAAGGCGGGACCAGGTGTGGGTAC  
 TGGGCTGGAGTCTTCTTGTGCATCAGCTGAGGGAGAGCAGATGAGCTTCTGTTTACTGCATCGTCC  
 GAGGCATCTCCCGACCAAAGGCCGTTGGGCTTCGGCCAGTTCCTCCAGACCCGAGTTCGGGGACC  
 CTCAGCCTCAGAAGAGCGTGTGCCAGGAAGCACTGGAAGCCCTGCAGCTAGAGAAGAGGCTCAGCCTG  
 CTTTCTACTCTGGCCGGCCAGGCACTGGAGGGGATGACAGAAGTCTATCCAGTTCCTTCTGAGGCTA  
 GCCACTCGGACATCAGCGCCAGCAGCAGGCTCACTGCGTGGCCGGAGCAGTCTCATCTCGGCCGGCAC  
 ATCACAAGAAGGACCAGGGCTGGTGGCTGCCAGGGCCAGGAGAAGCCATGCTGGGAGCCTCAAGGCCA  
 CCCCTCAAGCCACTGCGGCTCGGCAGTTACAGGAGGTTGGCCGCAGAGCTCCTCTGACAGTGGCATTG  
 CCACAGGCAGCCACTCCTTACTCTGGCAGTTCCTCTTATGCCGGCAGCAACCTGGACGTGTGGCG  
 GGCCGGTGAAGATTTCGTTCTCTGCTCAGTCTGCCCCCTGGAGCCAGCGCACCTGAGCCAGACTGTGT  
 GCCTGCCACCTGGGGCGGCCGAGTACCAGGTGCCACGTCAGTACAGACACCCTATGACACACCTCGAA  
 GCCTGCCACAGGCCCCAGAGACCAAGCCAGCTTCTCAGGGCAGCTCTGACCAGGTTACAGCCACAGA  
 CTTGGGTGGTCAGGCGCCACAGGGTGTCCCTCCAGTTGGCTGGGAGCTCGCCGACGGGGACAGGCAACG  
 GAAGGCCAGGCACTGACGCTGCGCTGCGGAGTCCATCCCTGGCGAGTCTGGGAAGCAGGACGCCCC  
 ATGCAAGGCCGCTCCAGCTTCTTTTGTGATGTTCAATCTGTGGCGGACTCAAGGTGATGGTACTTTC  
 ATCCCCTGGATCACTGTGACGCATCCAGGATCTCCAGGGCGGGTGGTCTGATAGCCCTGGGCTGAG  
 CGACCACAGTGAAGTGCACGATGTGAATATCCCCATCAGCCCCATCTCCAGACCCGAGCTGCACT  
 ACATGGACTTGGAGCTCCCGGGGCCAGTGTGGTGTTCGAGGGGCCAGCACCTCCCGCTATGCCAGAT  
 TGACATTGCACTACCGAGACAGCACATCGCGTGGGGTCCGGCATGCGCAGACTCGGGAGGAACGGTTA  
 CCAGAGTTGGAGCAGCGAAGAAGGGGCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224232 representing NM\_172708  
 Red=Cloning site Green=Tags(s)

MLVYKDKCERSKGLRERSLTLIEDICGLEPALPYEGLAHTLAIICLSQAVMLGFDSEAMCAWDTRIRYA  
 LGVHRFHVTVPAGTKLESFPATLHLCNDILVLARDIPPTVMGQWKLSDLRRYGAVPNGFIFEGGTRCGY  
 WAGVFFLSSAEGEQMSFLFDCIVRGISPTKGPFLRPVLPDPSSGGPSASEERVAQEALQLEKRLSL  
 LSHSGRPGSGDDRSLSSSSSEASHSDISASSRLTAWPEQSSSSAGTSQEGPGLVAAQGPGEAMLGASRP  
 PLKPLRPRQLQEVGRQSSSDSGIATGSHSSYSGFSYAGSNLDVWRAGEEFGSLLSLPPGASAPEPRLC  
 ACPPGAAEYQVPTSLRHHYDTPRSLRQAPRDPSPASQSSDHGSATDLGGQAPTGCPSSWLGARRRQAT  
 EPGSDAALPSPSPGESWEAGSPHAGPPPAFFLSCSICGGLKVMATSSPGFTVTHPGSPGRVAADSPGPE  
 RPHSEPTYVNIPISPISRPQLHYMDLELPGASAGVRGASTSRYAQIDIAATETAHRVGVVRAHQTREERL  
 PELEQRKKG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**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

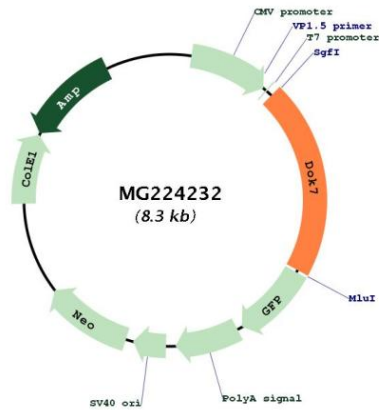
**Locus ID:** 231134

**Cytogenetics:** 5 B2

**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 MG224232