

Product datasheet for **RC239072**

DOK7 (NM_001301071) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOK7 (NM_001301071) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DOK7
Synonyms:	C4orf25; CMS1B; CMS10; FADS3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC239072 representing NM_001301071
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGAGGCGCGCTGGTGGAGGGCCAGGTCAAGCTGCGGGACGGCAAGAAGTGAAGAGTAGGTGGC
 TGGTGCTGCGGAAGCCGTCGCCCGTGGCAGACTGCCTGCTGATGCTGGTCTACAAGGACAAGTCGGAGCG
 TATCAAGGGCCTGCGGGAGCGCAGCAGCCTGACGCTAGAGGACATCTGCGGGCTGGAGCCCGGCCTGCC
 TACGAGGGCCTGGTCCACACGCTGGCCATTGTCTGCCTGTCCCAGGCCATCATGTGGGCTTTGACAGCC
 ACGAGGCCATGTGTGCGTGGGATGCCCGGATCCGCTATGCGCTCGGCGAGGTGCATAGGTTCCATGTGAC
 AGTGGCTCCAGGCACCAAGTTGGAGAGCGGCCCGGCTACCCTGCACCTCTGCAATGATGTCCTCGTCTTG
 GCCAGGGACATCCCCCGGCTGTACGGGGCAGTGAAGCTGTCTGACCTCCGGCGCTACGGGGCCGTGC
 CAAGCGGATTCATCTTTGAAGCGGGACCAGGTGTGGTACTGGGCTGGCGTCTTCTTCTGTCTCGGC
 CGAGGGGAGCAGATCAGCTTCCGTTCGACTGCATCGTCCGAGGCATCTCCCCACCAAGGGCCCTTT
 GGCTGCGGGCCGTTCTACCAGACCCAAGTCCCCCGGGACCCTCGACTGTGGAGGAGCGTGTGGCCAGG
 AAGCCCTGGAAACCCTACAGCTGGAGAAGCGGCTGAGCCTCCTCTCACATGCGGGCAGGCCGGGCAGTGG
 AGGGGATGACCGCAGCCTGTCCAGCTCATCCTCAGAGGCCAGTCACTTGGACGTCAGCGCCAGCAGCCGG
 CTCACCGCATGGCCAGAGCAATCCTCGTCGTCAGCCAGCAGTACAGAGAGGGCCCTAGACCAGCAGCTG
 CCCAGGGCCCGGGGAAGCCATGGTGGGTGCCTCAAGGCCACCCCCAAGCCGCTGCGTCCGCGGCAGCT
 GCAGGAGGTTGGCCGCCAGAGCTCCTCGGACAGCGGCATCGCCACTGGCAGCCACTCCTCTTACTCCAGC
 AGCCTCTCGTCTACGCGGGCAGCAGCCTGGACGTGTGGCGGGCCACAGATGAACTGGGCTCACTGCTCA
 GCCTGCCAGCAGCGGGGGCCCCGAGCCAGCCTGTGCACCTGCCTGCCGGGACAGTCCAGTACCAGT
 GCCACCTCCCTGCGGGCCCACTATGACACACCACGCAGCCTTTGCCTGGCTCCTAGAGACCACAGCCCC
 CCCTCACAGGGCAGCCCCGGCAACAGTGCAGCCAGGGACTCAGGCGGCCAGACGTCGCGGGGTGTCCCT
 CTGGCTGGCTGGGCACGAGACGGCGGGGCTGGTATGGAGGCCCCCCAGGGCAGCGAGGCCACACTGCC
 TGGCCCTGCCCTGGCGAGCCCTGGGAAGCAGGCGGCCCCACGCGGGGCCACCCCCGGCTTTCTTTTCG
 GCATGTCCAGTCTGTGGAGGACTCAAGGGAGCGGCAGCCTCAGCCCCAGGACTGCGACAGCACATTGAG
 GATCCCCAGGACCGTGGCTGTGGACAGCCAGGACCAGAGAGGCCCGCGGGCAGTCCGCCACTTACGT
 GAAATCCCCGTAGCCCATCTCCAGAAAGCAGCTGACTACATGGGCTGGAGCTCCAGGAGGCCAGC
 GAGGGTGTCCGAGGGCTGGCGCCTCCCTACGCCCAGATCGACATCATGGCCACCGAGACGGCGCACA
 GAGTGGGGGTGCGGCACGCACGGGCCCGGGAGGAGCAGCTGTCCGAGCTGGAGCAGAGGAAGGCAGCCCC
 GCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

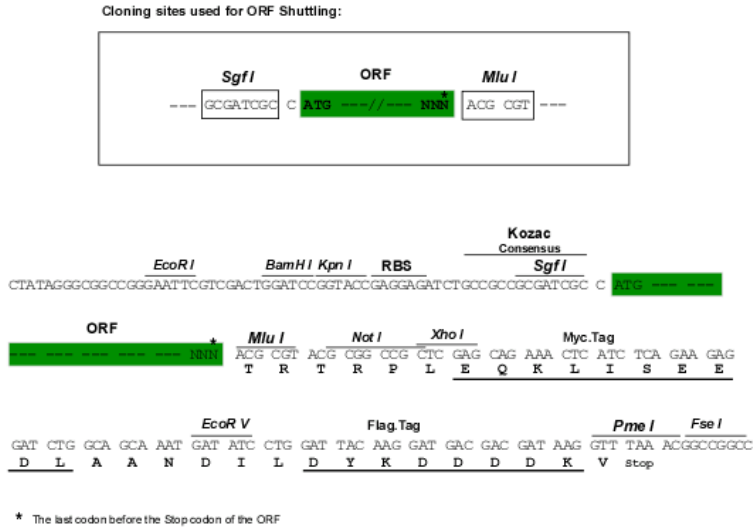
>RC239072 representing NM_001301071
 Red=Cloning site Green=Tags(s)

MTEAALVEGQVKLRDGGKWKSRWLVLRKPSVADCLLMLVYKDKSERIKGLRERSLTLIEDICGLEPGLP
 YEGLVHTLAIIVCLSQAIMLGFDSHEAMCAWDARIRYALGEVHRFHVTVPAGTKLESFPATLHL CNDVLL
 ARDIPPAVTGQWKLSDLRRYGAVPSGFIFEGGTRCGYWAGVFFLSSAEGEQISFLFDCIVRGISPTKGF
 GLRPVLPDPSPPGPSTVEERVAQEALTLQLEKRLSLLSHAGRPGSGGDDRSLSSSSSEASHLDVSASSR
 LTAWPEQSSSSASTSQEGPRPAAAQAAGEAMVGASRPPPKPLRPRQLQEVGRQSSSDSGIATGSHSSYSS
 SLSSYAGSSLDVWRATDELGSLLSLPAAGAPEPSLCTCLPGTVEYQVPTSLRAHYDTPRSLCLAPRDHSP
 PSQSPGN SAARDSGGQT SAGCPSGWL GTRRRGLVMEAPQGSEATLPGPAPGEPWEAGGPHAGPPPAFFS
 ACPVCGGLKGAASAPGPATAHSGSPGPVAVDSPGPERPRGESPTYVNIIPVSPSSRQLHYMGLELQEAS
 EGVRGAGASLYAQIDIMATETAHRVGVHRHARAREEQLESELRKAAPQ

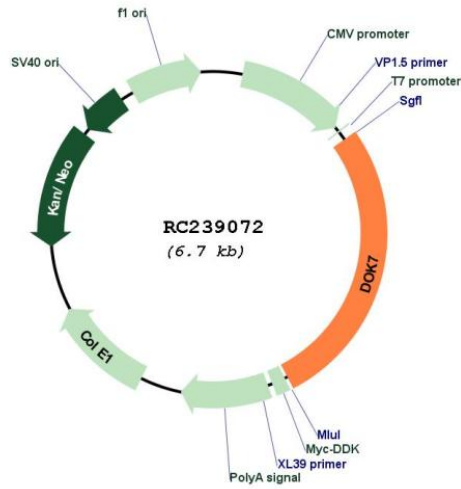
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301071

ORF Size: 1824 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_001301071.2
RefSeq Size:	2545 bp
RefSeq ORF:	1827 bp
Locus ID:	285489
UniProt ID:	Q18PE1
Cytogenetics:	4p16.3
MW:	64.4 kDa
Gene Summary:	The protein encoded by this gene is essential for neuromuscular synaptogenesis. The protein functions in aneural activation of muscle-specific receptor kinase, which is required for postsynaptic differentiation, and in the subsequent clustering of the acetylcholine receptor in myotubes. This protein can also induce autophosphorylation of muscle-specific receptor kinase. Mutations in this gene are a cause of familial limb-girdle myasthenia autosomal recessive, which is also known as congenital myasthenic syndrome type 1B. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]