

Product datasheet for **RG239072**

DOK7 (NM_001301071) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOK7 (NM_001301071) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOK7
Synonyms:	C4orf25; CMS1B; CMS10; FADS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239072 representing NM_001301071.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACCCAGGCGCGCTGGTGGAGGGCCAGGTCAAGCTGCGGGACGGCAAGAAGTGAAGAGTAGGTGG
CTGGTCTGCGGAAGCCGTCGCCCGTGGCAGACTGCCTGCTGATGCTGGTCTACAAGACAAGTCGGAG
CGTATCAAGGGCCTGCGGGAGCGCAGCAGCCTGACGCTAGAGGACATCTGCGGGCTGGAGCCCGCCTG
CCCTACGAGGGCCTGGTCCACACGCTGGCCATTGTCTGCCTGTCCAGGCCATCATGCTGGGCTTTGAC
AGCCACGAGGCCATGTGTGCGTGGGATGCCCGGATCCGCTATGCGCTCGGCGAGGTGCATAGGTTCCAT
GTGACAGTGGCTCCAGGCACCAAGTTGGAGAGCGGCCCGCTACCCTGCACCTCTGCAATGATGTCTC
GTCTTGGCCAGGGACATCCCCCGGCTGTACGGGGCAGTGAAGCTGTCTGACCTCCGGCGCTACGGG
GCCGTGCCAAGCGGATTCATCTTTGAAGCGGGACCAGGTGTGGTACTGGGCTGGCGTCTTCTCTCTG
TCCTCGGCCGAGGGGAGCAGATCAGCTTCTGTTCGACTGCATCGTCCGAGGCATCTCCCCACCAAG
GGCCCCTTTGGGCTGCGGCCGTTCTACCAGACCAAGTCCCCGGGACCCTCGACTGTGGAGGAGCGT
GTGGCCAGGAAGCCCTGGAAACCTACAGCTGGAGAAGCGGCTGAGCCTCTCTACATGCGGGCAGG
CCGGGCAGTGGAGGGGATGACCCGAGCCTGTCCAGCTCATCTCAGAGGCCAGTCACTTGGACGTGACG
GCCAGCAGCCGGCTACCCGATGGCCAGAGCAATCCTCGTCGTCAGCCAGCACGTACAGGAGGGCCCT
AGACCAGCAGCTGCCAGGCCCGCGGGGAAGCCATGGTGGGTGCCTCAAGGCCACCCCCAAGCCGCTG
CGTCCGCGGACGCTGCAGGAGTTGGCCGCCAGAGCTCCTCGACAGCGGCATCGCCACTGGCAGCCAC
TCCTCTTACTCCAGCAGCCTCTCGTCTACGCGGGCAGCAGCCTGGACGTGTGGCGGGCCACAGATGAA
CTGGGCTCACTGCTCAGCTGCCAGCAGCGGGGGCCCCGAGCCAGCCTGTGCACCTGCCTGCCCGGG
ACAGTCGAGTACCAGGTGCCACCTCCCTGCGGGCCACTATGACACACCACGACGCTTTGCCTGGCT
CCTAGAGACCACAGCCCCCTCACAGGGCAGCCCCGGCAACAGTGCGGCCAGGGACTCAGGCGGCCAG
ACGTCCGCGGGTGTCCCTCTGGCTGGCTGGGCACGAGACGCGGGGCTGGTGTGAGGCCCCCCAG
GGCAGCGAGGCCACACTGCCTGGCCCTGCCCTGGCGAGCCCTGGGAAGCAGGCGGCCCCACGCGGGG
CCACCCCCGGCTTTCTTTTGGCATGTCCAGTCTGTGGAGGACTCAAGGGAGCGGCAGCCTCAGCCCCA
GGACCTGCGACAGCACATTCAGGATCCCCAGGACCCGTGGCTGTGGACAGCCAGGACCAGAGAGGCCG
CGCGGCGAGTCGCCACTTACGTGAACATCCCCGTCAGCCATCTCCAGAAAGCAGCTGCACTACATG
GGCCTGGAGTCCAGGAGCCAGCGAGGGTGTCCGAGGGGCTGGCGCCTCCCTTACGCCAGATCGAC
ATCATGGCCACCAGACGCGCACAGAGTGGGGTGCAGCACGCGGGCCGGGAGGAGCAGCTGTCC
GAGCTGGAGCAGAGGAAGGCAGCCCCGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239072
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTEAALVEGQVKLRDGGKWKSRWLVLKRPSPVADCLLMLVYKDKSERIKGLRERSLTLIEDICGLEPGL
PYEGLVHTLAIIVCLSQAIMLGFDSHEAMCAWDARIRYALGEVHRFHVTVPKLESGPATLHLCNDVL
VLARDIPPAVTGQWKLSDLRRYGAVPSGFIFEGGTRCGYWAGVFFLSSAEGEQISFLFDCIVRGISPTK
GPFGLRPVLPDPSPPGPSTVEERVAQEALETQLLEKRLSLLSHAGRPGSGGDDRSLSSSSEASHLDVVS
ASSRLTAWPEQSSSSASTSQEGPRPAAAQAAGEAMVGASRPPPKPLRPRQLQEVGRQSSSDSGIATGSH
SSYSSSLSSYAGSSLDVWRATDELGSLLSLPAAGAPEPSLCTCLPGTVEYQVPTSLRAHYDTPRSLCLA
PRDHSPPSQSPGNSAARDSSGQTSAAGCPGWLGTTRRRGLVMEAPQGSEATLPGPAPGEPWEAGGPHAG
PPPAFFSACPVCGLKGAASAPGPATAHSGSPGPVAVDSPGPERPRGESPTYVNIIPVSPSSRKQLHYM
GLELQEASEGVRGAGASLYAQIDIMATETAHRVGVRRHARAREEQLESELEQRKAAPQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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).

RefSeq: [NM_001301071.2](#)

RefSeq Size: 2545 bp

RefSeq ORF: 1827 bp

Locus ID: 285489

UniProt ID: [Q18PE1](#)

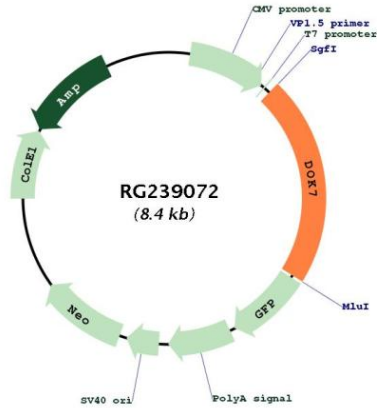
Cytogenetics: 4p16.3

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]

Product images:



Circular map for RG239072