

Product datasheet for **RG219267**

DOK7 (NM_173660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOK7 (NM_173660) 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:

>RG219267 representing NM_173660
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGACCGAGGCGCGCTGGTGGAGGGCCAGGTCAAGCTGCGGGACGGCAAGAAGTGAAGAGTAGGTGGC
 TGGTGCTGCGGAAGCCGTCGCCCGTGGCAGACTGCCTGCTGATGCTGGTCTACAAGGACAAGTCGGAGCG
 TATCAAGGGCCTGCGGGAGCGCAGCAGCCTGACGCTAGAGGACATCTGCGGGCTGGAGCCCGCCTGCC
 TACGAGGGCCTGGTCCACACGCTGGCCATTGTCTGCCTGTCCCAGGCCATCATGTGGGCTTTGACAGCC
 ACGAGGCCATGTGTGCGTGGGATGCCCGGATCCGCTATGCGCTCGGCGAGGTGCATAGGTTCCATGTGAC
 AGTGGCTCCAGGCACCAAGTTGGAGAGCGGCCCGGCTACCCTGCACCTCTGCAATGATGTCCTCGTCTTG
 GCCAGGGACATCCCCCGGCTGTACGGGGCAGTGAAGCTGTCTGACCTCCGGCGCTACGGGGCCGTGC
 CAAGCGGATTCATCTTTGAAGGGCGGACCAGGTGTGGTACTGGGCTGGCGTCTTCTTCTGCTCCTCGGC
 CGAGGGGAGCAGATCAGCTTCTGTTGACTGCATCGTCCGAGGCATCTCCCCACCAAGGGCCCTTT
 GGCTGCGGGCCGTTCTACCAGACCCAAGTCCCCCGGGACCCTCGACTGTGGAGGAGCGTGTGGCCAGG
 AAGCCCTGGAAACCCTACAGCTGGAGAAGCGGCTGAGCCTCCTCTCACATGCGGGCAGGCCGGGCAGTGG
 AGGGGATGACCGCAGCCTGTCCAGCTCATCCTCAGAGGCCAGTCACTTGGACGTCAGCGCCAGCAGCCGG
 CTCACCGCATGGCCAGAGCAATCCTCGTCGTCAGCCAGCAGTACAGAGGGGGCCTAGACCAGCAGCTG
 CCCAGGGCCCGGGGAAGCCATGGTGGGTGCCTCAAGGCCACCCCCAAGCCGCTGCGTCCGCGGCAGCT
 GCAGGAGGTTGGCCGACAGACTCCTCGGACAGCGGCATCGCCACTGGCAGCCACTCCTTACTCCAGC
 AGCCTCTCGTCTACGCGGGCAGCAGCCTGGACGTGTGGCGGGCCACAGATGAAGTGGGCTCACTGCTCA
 GCCTGCCAGCAGCGGGGGCCCCGAGCCAGCCTGTGCACCTGCCTGCCGGGACAGTGCAGTACCAGGT
 GCCCACCTCCCTGCGGGCCCACTATGACACACCACGCAGCCTTTGCTGGCTCCTAGAGACCACAGCCCC
 CCCTCACAGGGCAGCCCCGGCAACAGTGCAGCCAGGGACTCAGGCGGCCAGACGTCGCGGGGTGTCCCT
 CTGGCTGGCTGGGCACGAGACGGCGGGGCTGGTATGGAGGCCCCAGGACAGCGAGGCCACACTGCC
 TGGCCCTGCCCTGGCGAGCCCTGGGAAGCAGGCGGCCCCACGCGGGGCCACCCCGGCTTTCTTTTCG
 GCATGTCCAGTCTGTGGAGGACTCAAGGTAACCCCTCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219267 representing NM_173660
 Red=Cloning site Green=Tags(s)

MTEAALVEGQVKLRDGGKWKSRWLVLRKPSVADCLLMLVYKDKSERIKGLRERSLTLIEDICGLEPLP
 YEGLVHTLAIVCLSQAIMLGFDSHEAMCAWDARIRYALGEVHRFHVTVAPGTKLESFPATLHLCNDVLLV
 ARDIPPAVTGQWKLSDLRRYGAVPSGFIFEGGTRCGYWAGVFFLSAEGEQISFLFDCIVRGISPTKGP
 GLRPVLPDPSPPGPSTVEERVAQEALTLQLEKRLSLLSHAGRPGSGGDDRSLSSSSSEASHLDVSASSR
 LTAWPEQSSSASTSQEGPRPAAAQAAGEAMVGASRPPPKPLRPRQLQEVGRQSSDSGIATGSHSSYSS
 SLSSYAGSSLDVWRATDELGSLLSLPAAGAPEPSLCTCLPGTVEYQVPTSLRAHYDTPRSLCLAPRDHSP
 PSQSGPNSAARDSSGQTSAGCPSGWLGTRRRGLVMEAPQDSEATLPGPAPGEPWEAGGPHAGPPPAFFS
 ACPVCGGLKVNPPP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173660

ORF Size: 1512 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_173660.3](#), [NP_775931.3](#)

RefSeq Size: 2566 bp

RefSeq ORF: 1515 bp

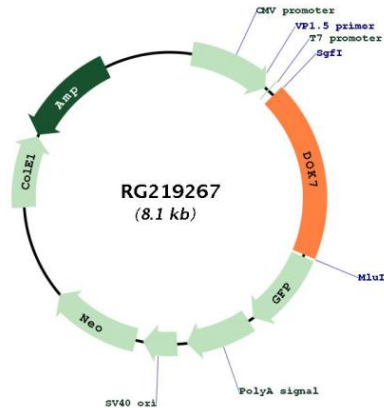
Locus ID: 285489

UniProt ID: [Q18PE1](#)

Cytogenetics: 4p16.3

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 RG219267