

Product datasheet for **RG228191**

DOK7 (NM_001164673) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DOK7 (NM_001164673) 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)
ORF Nucleotide Sequence: >RG228191 representing NM_001164673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAGGCGCGCTGGTGGAGGGCCAGGTCAAGCTGCGGGACGGCAAGAAGTGAAGAGTAGGTGGC
TGGTGCTGCGGAAGCCGTCGCCCGTGGCAGACTGCCTGCTGATGCTGGTCTACAAGGACAAGTCGGAGCG
TATCAAGGGCCTGCGGGAGCGCAGCAGCCTGACGCTAGAGGACATCTGCGGGCTGGAGCCCGCCCTGCC
TACGAGGGCCTGGTCCACACGCTGGCCATTGTCTGCCTGTCCAGGCCATCATGCTGGGCTTTGACAGCC
ACGAGGCCATGTGTGCGTGGGATGCCCGATCCGCTATGCGCTCGCGGAGGTGCATAGGTTCCATGTGAC
AGTGGCTCCAGGCACCAAGTTGGAGAGCGGCCCGCTACCTGCACCTCTGCAATGATGTCTCGTCTTG
GCCAGGGACATCCCCCGGCTGTACGGGGCAGTGAAGCTGTCTGACCTCCGGCGCTACGGGGCCGTGC
CAAGCGGATTCATCTTTGAAGGCGGGACCAAGGGCTGGCGTCTTCTTCTGTCCTCGGCCGAGGGGGAGC
AGATCAGCTTCTGTTCGACTGCATCGTCCGAGGCATCTCCCCACCAAGGGCCCTTTGGGCTGCGGCC
GGTTCTACCAGACCAAGTCCCCCGGACCCTCGACTGTGGAGGAGCGTGTGGCCAGGAAGCCCTGGAA
ACCCTACAGCTGGAGAAGCGGCTGAGCCTCCTCTACATGCGGGCAGGCCGGCAGTGGAGGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228191 representing NM_001164673
 Red=Cloning site Green=Tags(s)

MTEAALVEGQVKLRDGGKWKSRWLVLKPKSPVADCLLMLVYKDKSERIKGLRERSLTLIEDICGLEPLP
 YEGLVHTLAIVCLSQAIMLGFDSHEAMCAWDARIRYALGEVHRFHVTVPATKLESGPATLHLCNDVLLV
 ARDIPPAVTGWKLSDLRRYGAVPSGFIFEGGTRGWLLPVLGRGGADQLPVRLHRPHLPHQGPLWAAA
 GSTRPKSPGTLDCGGACGPGSPGNPTAGEAAEPPLTCGQAGQWRG

TRTRPLE - GFP Tag - V

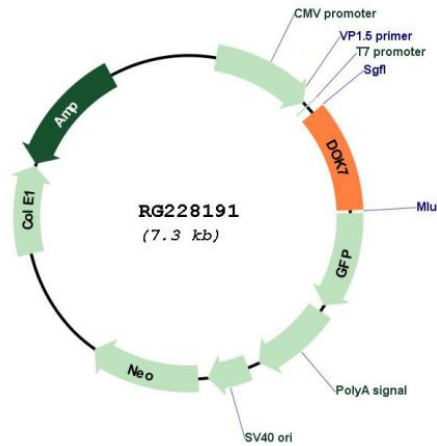
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001164673

ORF Size: 765 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_001164673.2
RefSeq Size:	2572 bp
RefSeq ORF:	768 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]