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Product datasheet for RC233217

DOK7 (NM_001256896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOK7 (NM_001256896) 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
ORF Nucleotide Sequence:	>RC233217 representing NM_001256896 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGGGTGCCTCAAGGCCACCCCCCAAGCCGCTGCGTCCGCGGCAGCTGCAGGAGGTTGGCCGCCAGA GCTCCTCGGACAGCGGCATCGCCACTGGCAGCCACTCCTCTTACTCCAGCAGCCTCTCGTCCTACGCGGG CAGCAGCCTGGACGTGTGGCGGGCCACAGATGAACTGGGCTCACTGCTCAGCCTGCCAGCAGCGGGGGCC CCCGAGCCCAGCCTGTGCACCTGCCTGCCCGGGACAGTCGAGTACCAGGTGCCCACCTCCCTGCGGGCCC ACTATGACACACCACGCAGCCTTTGCCTGGCTCCTAGAGACCACAGCCCCCCCTCACAGGGCAGCCCCGG CAACAGTGCGGCCAGGGACTCAGGCGGCCAGACGTCCGCCGGGTGTCCCTCTGGCTGGCTGGGCACGAGA CGGCGGGGCCTGGTGATGGAGGCCCCCCAGGGCAGCGAGGCCACACTGCCTGGCCCTGCCCCTGGCGAGC CCTGGGAAGCAGGCGGCCCCCACGCGGGGCCACCCCCGGCTTTCTTTTCGGCATGTCCAGTCTGTGGAGG ACTCAAGGTAAACCCCCCTCCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC233217 representing NM_001256896 Red=Cloning site Green=Tags(s) MVGASRPPPKPLRPRQLQEVGRQSSSDSGIATGSHSSYSSSLSSYAGSSLDVWRATDELGSLLSLPAAGA PEPSLCTCLPGTVEYQVPTSLRAHYDTPRSLCLAPRDHSPPSQGSPGNSAARDSGGQTSAGCPSGWLGTR RRGLVMEAPQGSEATLPGPAPGEPWEAGGPHAGPPPAFFSACPVCGGLKVNPPP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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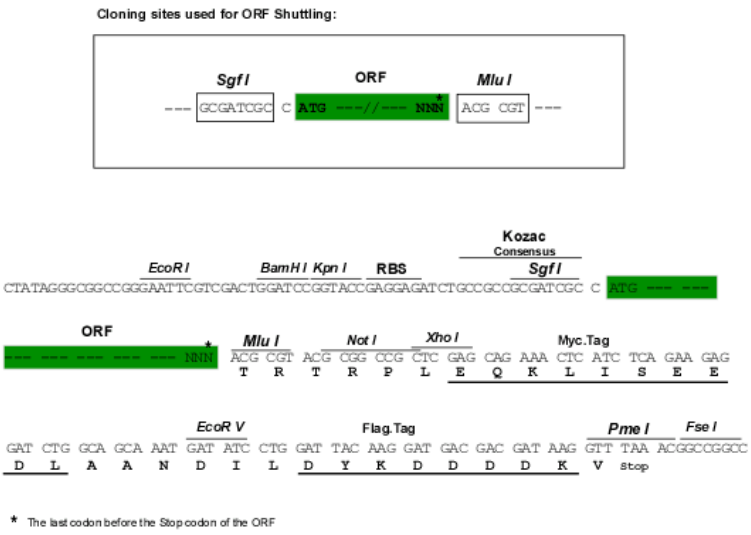
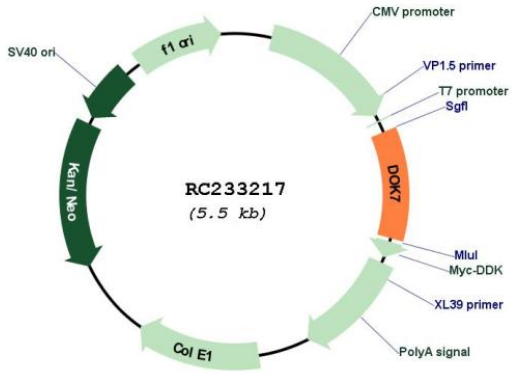
Cloning Scheme:



Plasmid Map:



ACCN:	NM_001256896
ORF Size:	582 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_001256896.1, NP_001243825.1
RefSeq Size:	2281 bp
RefSeq ORF:	585 bp
Locus ID:	285489
UniProt ID:	Q18PE1
Cytogenetics:	4p16.3
MW:	20.2 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]