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Product datasheet for SC317850

DOK7 (NM_173660) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOK7 (NM_173660) Human Untagged Clone
Tag:	Tag Free
Symbol:	DOK7
Synonyms:	C4orf25; CMS1B; CMS10; FADS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC317850 representing NM_173660.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGAGGCGGCGCTGGTGGAGGGCCAGGTCAAGCTGCGGGACGGCAAGAAGTGGAAGAGTAGGTGG
CTGGTGCTGCGGAAGCCGTCGCCCGTGGCAGACTGCCTGCTGATGCTGGTCTACAAGGACAAGTCGGAG
CGTATCAAGGGCCTGCGGGAGCGCAGCAGCCTGACGCTAGAGGACATCTGCGGGCTGGAGCCCGGCCTG
CCCTACGAGGGCCTGGTCCACACGCTGGCCATTGTCTGCCTGTCCCAGGCCATCATGCTGGGCTTTGAC
AGCCACGAGGCCATGTGTGCGTGGGATGCCCGGATCCGCTATGCGCTCGGCGAGGTGCATAGGTTCCAT
GTGACAGTGGCTCCAGGCACCAAGTTGGAGAGCGGCCCGGCTACCCTGCACCTCTGCAATGATGTCCTC
GTCTTGGCCAGGGACATCCCCCCGGCTGTCACGGGGCAGTGGAAGCTGTCTGACCTCCGGCGCTACGGG
GCCGTGCCAAGCGGATTCATCTTTGAAGGCGGGACCAGGTGTGGGTACTGGGCTGGCGTCTTCTTCCTG
TCCTCGGCCGAGGGGGAGCAGATCAGCTTCCTGTTCGACTGCATCGTCCGAGGCATCTCCCCCACCAAG
GGCCCCTTTGGGCTGCGGCCGGTTCTACCAGACCCAAGTCCCCCGGGACCCTCGACTGTGGAGGAGCGT
GTGGCCCAGGAAGCCCTGGAAACCCTACAGCTGGAGAAGCGGCTGAGCCTCCTCTCACATGCGGGCAGG
CCGGGCAGTGGAGGGGATGACCGCAGCCTGTCCAGCTCATCCTCAGAGGCCAGTCACTTGGACGTCAGC
GCCAGCAGCCGGCTCACCGCATGGCCAGAGCAATCCTCGTCGTCAGCCAGCACGTCACAGGAGGGGCCT
AGACCAGCAGCTGCCCAGGCCGCCGGGGAAGCCATGGTGGGTGCCTCAAGGCCACCCCCCAAGCCGCTG
CGTCCGCGGCAGCTGCAGGAGGTTGGCCGCCAGAGCTCCTCGGACAGCGGCATCGCCACTGGCAGCCAC
TCCTCTTACTCCAGCAGCCTCTCGTCCTACGCGGGCAGCAGCCTGGACGTGTGGCGGGCCACAGATGAA
CTGGGCTCACTGCTCAGCCTGCCAGCAGCGGGGGCCCCCGAGCCCAGCCTGTGCACCTGCCTGCCCGGG
ACAGTCGAGTACCAGGTGCCCACCTCCCTGCGGGCCCACTATGACACACCACGCAGCCTTTGCCTGGCT
CCTAGAGACCACAGCCCCCCCTCACAGGGCAGCCCCGGCAACAGTGCGGCCAGGGACTCAGGCGGCCAG
ACGTCCGCCGGGTGTCCCTCTGGCTGGCTGGGCACGAGACGGCGGGGCCTGGTGATGGAGGCCCCCCAG
GGCAGCGAGGCCACACTGCCTGGCCCTGCCCCTGGCGAGCCCTGGGAAGCAGGCGGCCCCCACGCGGGG
CCACCCCCGGCTTTCTTTTCGGCATGTCCAGTCTGTGGAGGACTCAAGGTAAACCCCCCTCCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_173660

Insert Size: 1515 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_173660.4
RefSeq Size:	2583 bp
RefSeq ORF:	1515 bp
Locus ID:	285489
UniProt ID:	Q18PE1
Cytogenetics:	4p16.3
MW:	53.1 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] Transcript Variant: This variant (1) differs in the 3' UTR and coding sequence compared to variant 4. The resulting isoform (1) has a shorter and distinct C-terminus compared to isoform 4.