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# Product datasheet for SC336966

## DOK7 (NM_001301071) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | DOK7 (NM_001301071) 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) |

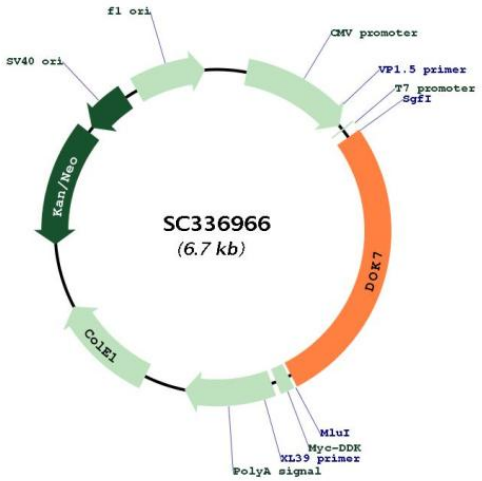
**Fully Sequenced ORF:**

>SC336966 representing NM_001301071.
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
CCACCCCCGGCTTTCTTTTCGGCATGTCCAGTCTGTGGAGGACTCAAGGGAGCGGCAGCCTCAGCCCCA
GGACCTGCGACAGCACATTCAGGATCCCCAGGACCCGTGGCTGTGGACAGCCCAGGACCAGAGAGGCCG
CGCGGCGAGTCGCCCACTTACGTGAACATCCCCGTCAGCCCATCCTCCAGAAAGCAGCTGCACTACATG
GGCCTGGAGCTCCAGGAGGCCAGCGAGGGTGTCCGAGGGGCTGGCGCCTCCCTCTACGCCCAGATCGAC
ATCATGGCCACCGAGACGGCGCACAGAGTGGGGGTGCGGCACGCACGGGCCCGGGAGGAGCAGCTGTCG
GAGCTGGAGCAGAGGAAGGCAGCCCCGCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

Plasmid Map:

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|---|---|
| **ACCN:** | NM_001301071 |
| **Insert Size:** | 1827 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). |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001301071.1 |
| **RefSeq Size:** | 2545 bp |
| **RefSeq ORF:** | 1827 bp |
| **Locus ID:** | 285489 |
| **UniProt ID:** | Q18PE1 |
| **Cytogenetics:** | 4p16.3 |
| **MW:** | 63.9 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 (4) encodes the longest isoform (4). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.