

Product datasheet for **RC207095**

DOLK (NM_014908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOLK (NM_014908) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DOLK
Synonyms:	CDG1M; DK; DK1; SEC59; TMEM15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207095 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCGAGAGTGCCCATCTCCGGCCCCGGGCTGGGGCTCCGCTGAGTGGATCGGTGCTGGCAGAGG
 CGGCAGTAGTGTTCAGTGGTCTGAGCATCCACGCAACCGTATGGGACCGATACTCGTGGTGCGCCGT
 GGCCCTCGCAGTGCAGGCCTTCTACGTCCAATACAAGTGGGACCGCTGTACAGCAGGGAAGCGCCGT
 TTCCAGTTCGAAATGTCCGAAACAGTGGCCTATTGCCCGCTCCATGGTCATGCCTTTGCTGGACTAG
 TCATGAAGGAGCGGTGCCAGACTGCTGGAAACCCGTTCTTTGAGCGTTTTGGCATTGTGGTGGCAGCCAC
 TGGCATGGCAGTGGCCCTCTTCTCATCAGTGTGGCGCTCGGCATCACTCGCCAGTGCCAAACCAACT
 TGTGTCATCTTGGCTTGGCTGGAGGTGTATCATTTATATCATGAAGCACTCGTTGAGCGTGGGGGAGG
 TGATCGAAGTCTGGAAGTCTTCTGATCTTCGTTTATCTCAACATGATCCTGCTGTACCTGCTGCCCG
 CTGCTTACCCCTGGTGAGGCACTGCTGGTATTGGGTGGCATTAGCTTTGCTCCTCAACCAGCTCATCAAG
 CGCTCTCTGACACTGGTGAAAGTCAGGGGACCCAGTGGACTTCTTCTGCTGGTGGTGGTAGTAGGGA
 TGGTACTCATGGGCATTTTCTTACGACTCTGTTTGTCTTCATGGACTCAGGCACCTGGGCCCTCCAT
 CTTCTCCACCTCATGACCTGTGTGCTGAGCCTTGGTGTGGTCTACCCTGGCTGCACCGGCTCATCCGC
 AGGAATCCCTGCTCTGGCTTCTCAGTTTCTTCCAGACAGACACCCGCATCTACCTCTAGCCTATT
 GGTCTCTGCTGGCCACCTTGGCTGCCTGGTGGTGTGTACCAGAATGCCAAGCGGTATCTTCCGAGTC
 CAAGAAGCACCAGGCCCCACCATCGCCGAAAGTATTTCCACCTATTGTGGTAGCCACCTACATCCCA
 GGTATCATCTTTGACCGCCACTGCTCTATGACCCGCACTGTATGCCTGGCGGTTCTCATCTTCTCTGG
 AGTATGTGCGCTACTTCCGCATCAAGCCTTTGGGTACACTCTACGGAGCTTCTGTCCCTTTTCTGGA
 TGAAACGAGACAGTGGACCACTATTCTGACACACATCTACCTGCTCCTGGGCATGTCTCTTCCCATCTGG
 CTGATCCCAGACCTGCACACAGAAGGTAGCCTGGGAGGAGCCAGGGCCCTCGTCCCCTATGCCGGTG
 TCCTGGCTGTGGGTGTGGGTGATACTGTGGCCTCCATCTTCGGTAGCACCATGGGGGAGATCCGCTGGCC
 TGGAAACAAAAAGACTTTTGGGGGACCATGACATCTATTTGCGCAGATCATTCTGTAGCTCTGATC
 TTAATCTTTGACAGTGGAGTGGACCTAACTACAGTTATGCTTGGATTTTGGGTCCATCAGCACTGTGT
 CCCTCCTGGAAGCATACTACACAGATAGACAATCTCCTCTGCCTCTACCTCCTGATATTGCTGAT
 GGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207095 protein sequence
 Red=Cloning site Green=Tags(s)

MTRECPSAPGPGAPLSGSVLAEEAVVFAVVLISHATVWDRYSWCAVALAVQAFYVQYKWRLLQQGSAV
 FQFRMSANSGLLPASMVPLLGLVMKERCQTAGNPFERFGIVVAATGMAVALFSSVLALGITRPVPTNT
 CVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMILLYLLPRCFTPEALLVLGGISFVLNQLIK
 RSLTLVESQGDVDFLLVVVGMVLMGIFSTLFFVMDSGTWASSIFFHLMTCVLSLGVLPWLHRLIR
 RNPLLWLLQFLFQTDTRIYLLAYWSLLATLACLVLVYQNAKRSSSESKKHQAPTIAIKYFHLIVVATYIP
 GIIFDRPLLYVAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW
 LIIPRPCTQKSLGGARALVPYAGVAVGVDTVASIFGSTMGEIRWPGTKKTFEGTMTSIFAQIISVALI
 LIFDSGVDLNYSAWILGSIISTVSLLEAYTTQIDNLLLPLYLLILLMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6334_d02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_014908

ORF Size: 1614 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_014908.4](#)
RefSeq Size: 2267 bp

RefSeq ORF: 1617 bp

Locus ID: 22845

UniProt ID: [Q9UPQ8](#)

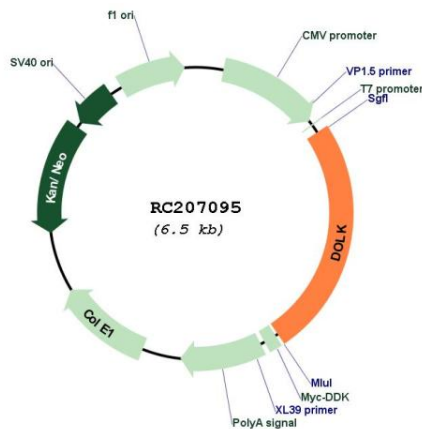
Cytogenetics: 9q34.11

Protein Families: Transmembrane

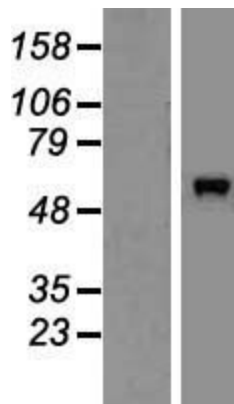
MW: 59.3 kDa

Gene Summary: The protein encoded by this gene catalyzes the CTP-mediated phosphorylation of dolichol, and is involved in the synthesis of Dol-P-Man, which is an essential glycosyl carrier lipid for C- and O-mannosylation, N- and O-linked glycosylation of proteins, and for the biosynthesis of glycosyl phosphatidylinositol anchors in endoplasmic reticulum. Mutations in this gene are associated with dolichol kinase deficiency.[provided by RefSeq, Apr 2010]

Product images:



Circular map for RC207095



Western blot validation of overexpression lysate (Cat# [LY414939]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207095 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).