

Product datasheet for **RG207095**

DOLK (NM_014908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOLK (NM_014908) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOLK
Synonyms:	CDG1M; DK; DK1; SEC59; TMEM15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207095 representing NM_014908
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCGAGAGTGCCCATCTCCGGCCCCGGGCTGGGGCTCCGCTGAGTGGATCGGTGCTGGCAGAGG
 CGGCAGTAGTGTTCAGTGGTCTGAGCATCCACGCAACCGTATGGGACCGATACTCGTGGTGCGCCGT
 GGCCCTCGCAGTGCAGGCCTTCTACGTCCAATACAAGTGGGACCGGCTGTACAGCAGGGAAGCGCCGTC
 TTCCAGTTCGGAATGTCCGCAAACAGTGGCCTATTGCCCGCCTCCATGGTCATGCCTTTGCTGGACTAG
 TCATGAAGGAGCGGTGCCAGACTGCTGGAAACCCGTTCTTTGAGCGTTTTGGCATTGTGGTGGCAGCCAC
 TGGCATGGCAGTGGCCCTCTTCTCATCAGTGTGGCGCTCGGCATCACTCGCCAGTGCCAAACCAACT
 TGTGTCATCTTGGCTTGGCTGGAGGTGTATCATTTATATCATGAAGCACTCGTTGAGCGTGGGGGAGG
 TGATCGAAGTCTGGAAGTCTTCTGATCTTCGTTTATCTCAACATGATCCTGCTGTACCTGCTGCCCG
 CTGCTTACCCCTGGTGAGGCACTGCTGGTATTGGGTGGCATTAGCTTTGCTCCTCAACCAGCTCATCAAG
 CGCTCTCTGACACTGGTGAAAGTCAGGGGGACCCAGTGGACTTCTTCTGCTGGTGGTGGTAGTAGGGA
 TGGTACTCATGGGCATTTTCTTCAGCACTCTGTTTGTCTTCATGGACTCAGGCACCTGGGCCCTCCAT
 CTTCTCCACCTCATGACCTGTGTGCTGAGCCTTGGTGTGGTCTACCCTGGCTGCACCGGCTCATCCGC
 AGGAATCCCTGCTCTGGCTTCTCAGTTTCTCTCCAGACAGACACCCGCATCTACCTCTAGCCTATT
 GGTCTCTGCTGGCCACCTTGGCTGCCTGGTGGTGTGTACCAGAATGCCAAGCGGTATCTTCCGAGTC
 CAAGAAGCACCAGGCCCCACCATCGCCGAAAGTATTTCCACCTCATTGTGGTAGCCACCTACATCCCA
 GGTATCATCTTTGACCGCCACTGCTCTATGAGCCGCACTGTATGCCTGGCGGTCTTCATCTTCTGG
 AGTATGTGCGCTACTTCCGCATCAAGCCTTTGGGTACACTCTACGGAGCTTCTGCTCCCTTTTCTGGA
 TGAAACGAGACAGTGGACCACTATTCTGACACACATCTACCTGCTCCTGGGCATGTCTCTTCCCCTGG
 CTGATCCCAGACCTGCACACAGAAGGTAGCCTGGGAGGAGCCAGGGCCCTCGTCCCCTATGCCGGTG
 TCCTGGCTGTGGGTGTGGGTGATACTGTGGCCTCCATCTTCGGTAGCACCATGGGGGAGATCCGCTGGCC
 TGGAAACAAAAAGACTTTTGGGGGACCATGACATCTATTTGCGCAGATCATTCTGTAGCTCTGATC
 TTAATCTTTGACAGTGGAGTGGACCTAACTACAGTTATGCTTGGATTTTGGGTCCATCAGCACTGTGT
 CCCTCCTGGAAGCATACTACACAGATAGACAATCTCCTCTGCCTCTACCTCCTGATATTGCTGAT
 GGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207095 representing NM_014908
 Red=Cloning site Green=Tags(s)

MTRECPSAPGPGAPLSGSVLAEEAVVFAVLSIHATVWDRYSWCAVALAVQAFYVQYKWRLLQQGSAV
 FQFRMSANSGLLPASVMPLLGLVMKERCQTAGNPFERFIVVAATGMAVALFSSVLALGITRPVPTNT
 CVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMILLYLLPRCFTPEALLVLGGISFVLNQLIK
 RSLTLVESQGDVDFLLVVVGMVLMGIFSTLFFVMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIR
 RNPLLWLLQFLFQTDTRIYLLAYWSLLATLACL VVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIP
 GIIFDRPLLVAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW
 LIPRPCTQKQSLGGARALVPYAGVLA VGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSIFAQIISVALI
 LIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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

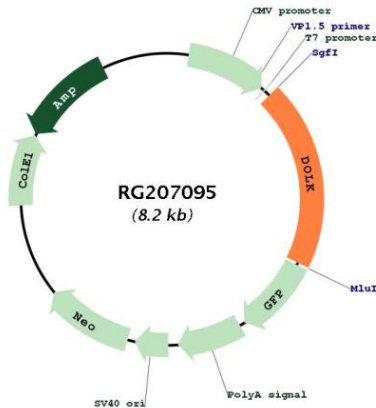
RefSeq ORF: 1617 bp

Locus ID: 22845

UniProt ID: [Q9UPQ8](#)

Cytogenetics:	9q34.11
Protein Families:	Transmembrane
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 RG207095