

Product datasheet for **SC114752**

DOLK (NM_014908) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOLK (NM_014908) Human Untagged Clone
Tag:	Tag Free
Symbol:	DOLK
Synonyms:	CDG1M; DK; DK1; SEC59; TMEM15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC114752 sequence for NM_014908 edited (data generated by NextGen Sequencing)

```

ATGACCCGAGAGTGCCCATCTCCGGCCCCGGGCTGGGGCTCCGCTGAGTGGATCGGTG
CTGGCAGAGGGCGCAGTAGTGTTTGCACTGGTGTGAGCATCCACGCAACCGTATGGGAC
CGATACTCGTGGTGCGCCGTGGCCCTCGCAGTGCAAGCCCTTCTACGTCCAATAACAAGTGG
GACCGGTGCTACAGCAGGAAGCGCCGCTTCCAGTTCGAATGTCCGAAACAGTGGC
CTATTGCCCGCCTCCATGGTCATGCCTTTGCTTGGACTAGTCATGAAGGAGCGGTGCCAG
ACTGCTGGGAACCCGTTCTTTGAGCGTTTTGGCATTGTGGTGGCAGCCACTGGCATGGCA
GTGGCCCTCTTCTCATCAGTGTGGCGCTCGGCATCACTCGCCAGTGCCAAACCAACT
TGTGTCATCTTGGGCTTGGCTGGAGGTGTATCATTTATATCATGAAGCACTCGTTGAGC
GTGGGGGAGGTGATCGAAGTCTGGAAGTCTTCTGATCTTCGTTTATCTCAACATGATC
CTGCTGTACCTGCTGCCCGCTGCTTACCCTGGTGAGGCACTGCTGGTATTGGGTGGC
ATTAGCTTTGCTCAACCAGCTCATCAAGCGCTCTGACACTGGTGGAAAGTCAGGGG
GACCCAGTGGACTTCTTCTGCTGGTGGTGGTAGTAGGATGGTACTCATGGCATTTC
TTCAGCACTCTGTTTGTCTTTCATGGACTCAGGCACCTGGGCCTCTCCATCTTCTCCAC
CTCATGACCTGTGTGCTGAGCCTTGGTGTGGTCTACCCTGGCTGCACCCGCTCATCCGC
AGGAATCCCTGCTCTGGCTTCTCAGTTTCTTCCAGACAGACACCCGCATCTACCTC
CTAGCCTATTGGTCTCTGCTGGCCACCTTGGCCTGCCTGGTGGTGTGTACCCAGATGCC
AAGCGGTATCTTCCGAGTCCAAGAAGCACCAGGCCCCACCATCGCCGAAAAGTATTC
CACCTCATTGGGTAGCCACCTACATCCAGGTATCATCTTTGACCGGCCACTGCTCTAT
GTAGCCGCCACTGTATGCCTGGCGGTCTCATCTTCTGGAGTATGTGCGCTACTCCGC
ATCAAGCCTTTGGGTACACTCTACGGAGCTTCTGCTCCCTTTTTCTGGATGAACGAGAC
AGTGGACCACTATTCTGACACACATCTACCTGCTCCTGGGCATGTCTTCCCATCTGG
CTGATCCCCAGACCTGCACACAGAAGGGTAGCCTGGGAGGAGCCAGGGCCCTCGTCCC
TATGCCGGTGTCTGGCTGTGGGTGTGGGTGATACTGTGGCCTCCATCTTCGGTAGCACC
ATGGGGGAGATCCGCTGGCCTGGAACAAAAAGACTTTTGAGGGGACCATGACATCTATA
TTTGCGCAGATCATTTCTGTAGCTCTGATCTTAATCTTTGACAGTGGAGTGGACATAAC
TACAGTTATGCTTGGATTTTGGGTCCATCAGCACTGTGTCCCTCCTGGAAGCATACACT
ACACAGATAGACAATCTCCTTCTGCCTCTACCTCCTGATATTGCTGATGGCCTAG
    
```

Clone variation with respect to NM_014908.3

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_014908 unedited
CGTCACGATTTGTATACGACTCACTATAGGCGGCCGNATTCGGCACGAGGCAGAGTGG
CGACGTACGCCGTAGGTTGGAGGCTGTGGGGGTGGCCGGGCGCCAGCTCCCAGGCCG
CAGAAGTGACCTGCGGTGGAGTCCCTCCTCGCTGCTGGAGAACGGAGGGAGAAGTTGC
TGGCCGGGTGAAAGTGCCTCCCTCTGCTTGACGGGGCTGAGGGGCCGAAGTCTAGGGCG
TCCGTAGTCGCCCCGGCCTCCGTGAAGCCCCAGTCTAGAGATAGACCCGAGAGTGCC
CATCTCCGGCCCCGGGCTGGGCTCCGCTGAGTGGATCGGTGCTGGCAGAGGCGGCAG
TAGTGTGTTGCACTGGTGTGAGCATCCACGCAACCGTATGGGACCGATACTCGTGGTGG
CCGTGGCCCTCGCAGTGCAGGCCCTTCTACGTCCAATAACAAGTGGGACCGGCTGCTACAGC
AGGGAAGCGCCGTCTTCCAGTTCGAATGTCCGAAACAGTGGCCTATTGCCCGCCTCCA
TGGTCATGCCTTTGCTTGGACTAGTCATGAAGGAGCGGTGCCAGACTGCTGGGAACCCGT
TCTTTGAGCGTTTTGGCATTGTGGTGGCAGCCACTGGCATGGCAGTGGCCCTCTTCTCAT
CAGTGTGGCGCTCGGCATCACTCGCCAGTGCCAACCAACACTTGTGTATCTTGGGCT
TGGCTGGAGGTGTATCATTTATATCATGAAGCACTCGTTGAGCGTGGGGAGGTGATCG
AAGTCCGGAAGTCCCTTCTGATCTTCGNTTATCTCACATGATCCTGCTGTACCTGCTGCC
CCGCTGCTTACCCTGGTGGGCACTGCTGGTATTGGGTGGCATTAGCTTTGCTCCTCAA
CCCGCT
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014908 unedited CCGCGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTAGGAGAGCTTTGCTT TTTATTTTAAATCTGAATCAACTGAAAAATCAAATCTGCTTTTCACACCTTGGCTCTTCA TGCCCAAGTAGCTGTCTGCTGTGGGGACTGTTACCCCTCCCCATGTCTGTTTCTCCGTC ACTGCTGCTGCACTGTAACAGCTAGGCCATCAGCAATATCAGGAGGTAGAGAGGCAGAAG GAGATTGTCTATCTGTGTAGTGTATGCTTCCAGGAGGGACACAGTGTGATGGACCCCAA AATCCAAGCATAACTGTAGTTTAGGTCCACTCCACTGTCAAAGATTAAGATCAGAGCTAC AGAAATGATCTGCGCAAATATAGATGTCATGGTCCCCTCAAAGTCTTTTGGTTCCAGG CCAGCGGATCTCCCCATGGTGCTACCGAAGATGGAGGCCACAGTATACCCACACCCAC AGCCAGGACACCGGCATAGGGGACGAGGGCCCTGGCTCCTCCCAGGCTACCCCTTCTGTGT GCAGGGTCTGGGATCAGCCAGATGGGAAGAGACATGCCAGGAGCAGGTAGATGTGTGT CAGAATGAGTGGTCCACTGTCTCGTTCATCCAGAAAAAGGGACAGGAAGCTCCGTAAGT GTGACCCANAGGCTTGATGCGNAAGTAGCGCACATACTCCAGGAAGATGAAGACCCNCAG GCATACAGTGGCGCTACATAGAGCCATGGCCGGTCAAAGATGATACCTGGGATGTAAGT GGCTACCACCATGANGTGGGAAATACTTTCGGCCGATGTTGGGGCCTGNGGCCTTCTGG ACTCCGAAGTGACCGCTTGGCATTCTGTACAGCACCAAGCAGCCCAAGTGGCCACCN AGACAATTAGGTAGGAGGAAAAGCCGTTGTTCTGTGGAAAAAAGTATACCC
Restriction Sites:	NotI-NotI
ACCN:	NM_014908
Insert Size:	2400 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:	<ol style="list-style-type: none"> 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_014908.3 , NP_055723.1
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]