

Product datasheet for **SC309714**

DGKH (NM_178009) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKH (NM_178009) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGKH
Synonyms:	DGKeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_178009, the custom clone sequence may differ by one or more nucleotides

```

ATGGCAGGGGCCGGAGGCCAGCACCACCCTCCGGGCGCCGCTGGAGGAGCGGCCGCCGGA
GCCGGCGCCGCGGTACCTCCGCGCTGCCTCGGCGGGGCCGGGAGAGGATTTCGTCTGAC
AGCGAAGCGGAGCAAGAGGGACCCAGAACTGATCCGCAAAGTGTCTACCTCGGGCAG
ATCCGGACCAAGACCAGTATTAAGAGGGACAGCTATTGAAGCAAACCAGTTCCTTCCAA
AGGTGGAAAAAGCGATACTTCAAACCTCGAGGCCGACCCTTTACTATGCAAAGGACTCA
AAGTCTCTGATATTTGATGAAGTTGACCTCTCAGATGCTAGTGTAGCTGAAGCAAGCAG
AAAAATGCTAACACAGCTTTCACGATCATCACTCCATTGAGAAGGCTAATGCTGTGTGCT
GAGAACAGAAAGGAGATGGAGATTGGATCAGCTCACTGAAGTCTGTACAGACCAGAGAA
CCCTACGAGGTGGCCAGTTAATGTGGAACATTTCTCAGGGATGCACAACCTGGTACGCC
TGCTCCACGCCCCGACCCACCTTCTGTAACGTGTGCAGAGAGAGTCTTTCTGGAGTCACC
TCCCATGGCCTGTCTGCGAAGTGTGTAATTCAGGCTCACAAAAGATGTGCAGTGAGA
GCAACAAATAACTGTAATGGACTACCCTGGCCTCCATCGGGAAGGACATTATAGAAGAT
GAAGATGGCGTCGCGATGCCTCACCAGTGGCTTGAGGGCAACCTGCCTGTAAGTGCCAAG
TGTGCTGTCTGCGACAAAACATGTGGCAGTGTCTCCGTCTACAGGATTGGAAATGCCTT
TGGTGTAAGACAATGGTACACTGCCTGCAAAGATTTATACCATCCAATATGTCCACTT
GGTCAATGTAAAGTATCTATCATACCTCCAATTGCACTAACAGCACCAGATTCCGATGGT
TTCTGTAGAGCAACATTTTCGTTCTGTGTTAGTCTCTATTGGTTTTTGTCAATTCTAAG
AGTGGAGATAATCAGGGAGTAAAGTTCCCTCCGTCTTTAAACAGTTGCTAAATCCGGCT
CAGGTGTTTTGATTAATGAATGGAGTCTCATTAGGTTTTAAGATTATTTGAGAAGTTT
GACAATTTCCGGATTCTTGTGTTGGAGGCGATGGAAGTGTAGGTTGGGTTTTGTCAGAA
ATCGATAAGCTCAACTTGAATAAACAGTGTGAGCTGGGAGTGTGCTTTGGGTACAGGA
AATGACCTTGCCCGAGTCTTGGCTGGGAGGTTTATATGACGATGACACCCAATTCCT
CAGATCCTAGAGAACTGGAACGAGCCAGTACCAAAATGTTGGACAGGTGGAGTATAATG
ACATATGAACTCAAATGCCACCAAAAGCTTCCCTACTTCCAGGACCTCCAGAAGCATCT
GAAGAATTTTATATGACGATTTATGAAGACTCAGTTGCAACGCATCTTACAAAAATCCTC

```



[View online >](#)

```

AATTCTGATGAACATGCAGTGGTCATATCTTCTGCCAAGACGCTATGTGAACTGTAAAG
GACTTCGTTGCCAAAGTAGAAAAGACGTATGACAAAACCTTGGAAAATGCCGTTGTAGCT
GATGCCGTGGCCAGTAAATGTTTCAGTCCTAAACGAGAAGCTCGAACAACTGCTGCAGGCT
TTGCACACAGATTCCCAGGCTGCGCCTGTTCTCCCTGGCCTCAGCCCTCTCATTGTGGAA
GAAGATGCTGTGGAATCGTCCAGTGAAGAGTCCCTGGGTGAAAGCAAAGAGCAGCTTGGG
GATGACGTTACAAAACCTTCTCCAGAAAAGCCGTCAAACCAAGGGAAAATCATGTTGCGG
GCAAAATAGTTTAAAGAAAAGCAGTGAAGCAAGTCATTGAGGAAGCCGAAAAGTTATGGAT
GACCCGACAGTTTACCCCTGTGAACCAGCTAATCAGTCCTCTGATTATGACAGCACAGAA
ACAGATGAATCTAAGGAGGAAGCTAAAGATGATGGTGCCAAAGAATCAATAACTGTTAAA
ACTGCACCTCGGTCTCCAGATGCCCGGGCAAGTTATGGCCATTCCCAAAGTATTCTGTGTC
CCTGGTCCAGCTGTGGCAGCCAGCAAAGAAAACCTCCCTGTGCTCAATACCAGAATAATC
TGCCAGGTTTAAAGAGCAGGACTGGCTGCCTCAATTGCTGGGAGTTCGATTATCAACAAA
ATGTTACTGGCAAACATTGATCCTTTTGGTGCCACGCCGTTTATTGACCCGGATCTAGAT
TCCGTAGATGGATATTCAGAAAATGTGTCATGAACAATTAATTTGGGATTGGATTAGAT
GCAAAAATTTTATTAGAATTTAATAATAAAAAGAGAGGAGCACCCTGAAAATGCAGAGC
CGAACTAAAACCTTGATGTGGTATGGAGTCCTTGGAAACCCGGGAGTTATTACAGAGATCG
TACAAGAATTTAGAACAAGGGTTCAACTTGAGTGTGATGGGCAGTATATTCCTCTTCCC
AGCTTGCAAGGCATAGCCGTGTTGAACATTCCCAGCTATGCTGGAGGCACTAACTTTTGG
GGTGGAATAAAGAGGATGATATATTTGCTGCACCATCCTTTGATGACAAGATCCTGGAA
GTTGTAGCAATATTTGATAGCATGCAAATGGCAGTTTCAAGGGTCATTAACTGCAGCAT
CATCGAATAGCCAGTGCCGTACAGTGAATACTACTATATTTGGTACGAAGGAGTCCCA
GTGCAAGTGGATGGTGAAGCGTGGTTCAGCCTCCAGGGATTATCAAAAATTGTGCACAAA
AACAGAGCACAAATGCTAACAAGGGACAGAGCCTTTGAGAGCACTCTGAAATCTTGGGAA
GATAAGCAGAAAGTGTGATTCTGGTAAACCAGTTCTCCGAACCCATTTGTACATCCATCAC
GCCATTGACTTGGAACAGAAGAGGTGTGCGAGATGCAGCTATGCTCCCAGGCTGCAGAG
GAGCTCATTACTAGGATATGTGACGCAGCCACAATTAAGTGTCTTTTGGAGCAAGAAGT
GCCCATGCTGTGAATGCCTGCTCCCATGCCCTGAATAAAGCCAACCCAAGGTGCCCGGAG
AGTCTTACAAGAGACTGCCACTGAAATAGCCATCAATGTGAAGGCGCTGTATAATGAA
ACAGAATCTTTGCTAGTTGGCAGGGTTCCTTTGCAGCTGGAATCGCCACATGAAGAGCGA
GTATCCAATGCCTTACACTCTGTGGAGGTGGAATTACAGAAAAGTACAGAGATTCCTTGG
CTTTATTATATCTTACACCCAAATGAGGATGAGGAACCTCCTATGGATTGCACAAAAGG
AACAAACAGAAGCACCGTATTTTCAATAGTGCCAAAGTTTAAAAAGGAAAAGGTTCAAGAG
CAGAAGACAAGTTCACAGCCTGTTTCAAGAAATGGGGCACAGAGGAAGTTGCTGCTTGGCTG
GATCTGCTCAATTTGGGAGAGTACAAAGATATCTTTCATCCGTCATGACATCAGAGGGGCT
GAACCTTTTGCATCTGAAAGGCGAGATCTTAAGGATCTGGGGATACCGAAAGTGGGTCAT
GTGAAGCGAATTTCCAGGGAATTAAGAGCTTGAAGGAGCACTCCACAGTCCGAGGTG
TAA
    
```

- Restriction Sites:** Please inquire
- ACCN:** NM_178009
- 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_178009.2](#), [NP_821077.1](#)

RefSeq Size: 4248 bp

RefSeq ORF: 3663 bp

Locus ID: 160851

UniProt ID: [Q86XP1](#)

Cytogenetics: 13q14.11

Protein Families: Druggable Genome

Protein Pathways: Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary: This gene encodes a member of the diacylglycerol kinase (DGK) enzyme family. Members of this family are involved in regulating intracellular concentrations of diacylglycerol and phosphatidic acid. Variation in this gene has been associated with bipolar disorder. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Jul 2014]
Transcript Variant: This variant (2) contains an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) has a longer and distinct C-terminus, compared to isoform 1. 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.