

Product datasheet for SC310559

DPH5 (NM_015958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPH5 (NM_015958) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPH5
Synonyms:	AD-018; CGI-30; HSPC143; NPD015
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015958, the custom clone sequence may differ by one or more nucleotides

ATGCTTTATCTCATCGGGTTGGGCTGGGAGATGCCAAGGACATCACAGTCAAGGGCCTGGAAGTTGTTA
 GACGCTGCAGTCGAGTGTATCTGGAAGCCTACACCTCAGTCCTAACTGTAGGGAAGGAAGCCTTGAAGA
 GTTTTATGGAAGAAAATTGGTTGTTGCTGATAGAGAAGAAGTGAACAAGAAGCAGATAATATTTAAAG
 GATGCTGATATCAGTGATGTTGCATTCCTTGTGGTTGGTGATCCATTTGGGGCCACAACACACAGTGATC
 TTGTTCTAAGAGCAACAAAGCTGGGAATTCCTTATAGAGTTATTCACAATGCCTCCATAATGAATGCTGT
 AGGCTGCTGTGGTTTACAGTTATATAAGTTTGGAGAGACAGTTTCTATTGTTTTTGGACAGACACTTGG
 AGACCAGAAAGCTTCTTTGACAAAGTGAAGAAGAACAGACAAAATGGCATGCACACATTATGTTTACTAG
 ACATCAAAGTAAAGGAGCAGTCTTTGAAAAATCTAATCAAGGGAAGGAAGATCTATGAACCTCCACGGTA
 TATGAGTGTAACCAAGCAGCCAGCAGCTTCTGGAGATTGTTCAAAATCAAAGAATACGAGGAGAAGAA
 CCAGCAGTTACCGAGGAGACACTTTGTGTTGGCTTAGCCAGGGTTGGAGCCGACGACCAGAAAAATTGCAG
 CAGGCACTTTAAGGCAAATGTGCACTGTGGACTTGGGAGAACCATTGCATTCCTTGATCATCACAGGAGG
 CAGCATACATCCAATGGAGATGGAGATGCTAAGTCTGTTTTCCATACCAGAAAATAGCTCAGAATCTCAA
 AGCATCAATGGACTTTGA


[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015958 unedited
 TGTAATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGCGGAGCCGGCGCTTTT
 GCAGTTGCTTCTGCGGAAAGGTGGTAGTTAAGAATTTGTAAAGGCCAGAGAACTACCTAC
 GATTCTCTCAGCGGTCTCTCTTCTCCTCAAGTTTGAAATGCTTTATCTCATCGGGTTGGG
 CCTGGGAGATGCCAAGGACATCACAGTCAAGGGCCTGGAAGTTGTTAGACGCTGCAGTCG
 AGTGTATCTGGAAGCCTACACCTCAGTCCTAACTGTAGGGAAGGAAGCCTTGAAGAGTT
 TTATGGAAGAAAATTGGTTGTTGCTGATAGAGAAGAAGTGAACAAGAAGCAGATAATAT
 TTAAAGGATGCTGATATCAGTGATGTTGCATTCTTGTGGTTGGTGATCCATTTGGGGC
 CACAACACACAGTGATCTTGTCTAAGAGCAACAAAGCTGGGAATTCCTTATAGAGTTAT
 TCACAATGCCTCCATAATGAATGCTGTAGGCTGCTGTGGTTTACAGTTATATAAGTTTGG
 AGAGACAGTTTCTATTGTTTTTTGGACAGACACTTGGAGACCAGAAAGCTTCTTTGACAA
 AGTGAAGAAGAACAGACAAAATGGCATGCACACATTATGTTTACTAGACATCAAAGTAA
 GGAGCAGTCTTTGAAAATCTAATCAAGGAAGGAAGATCTATGAACCTNCACGGTATAT
 GAGTGTAACCAAGCAGCCAGCAGCTTCTGGGAGATTGTTCAANAATCAAAGAATACGAG
 GAGAAGAACCAGCAGTTACCGAGGGAGACACTTTGTGTTGGNCTANNCCAGGGTGGNAGC
 CCGACGACCAGNANAATGCAGCAGGCACCTTAGGNCANATGTGCACTGGTGACTTGNAG
 AACATTGCATTNCTTGATATCACAGGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015958 unedited
 GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGACATTGTTTATTATATTTTGTCCA
 CAGTTTATAATTGGGAGGGTTTGTACATTACAAGCTATTACACCATTACCAAAACCAGA
 AGTCCTTCATTATATAGTTCTTAAATGTTTAGTTTAAACATATGAGAAGAAAATAATATAC
 AACTGGTATTTAAATGTACTTGGCTCTCTCCCCTTCTGTGTCTAACAGATTGAAAATGAG
 GCCAGGCATAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGAT
 CACTTGAGGTCAAGAGTTCAAGACCAGCCTGGCCAACATGGCGAAACCCCATCTCTACAC
 ACACACACACAAAATAGCCAGGTGTGGTGCCGCCACATGACTGTAATCCCAGCTACTCGG
 GAGGCTGAGGCAGGATAATCGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATT
 GCACCACTACACTCTAGCCTGGGCTACAGAGTGAGACTGTGTCTCANAAATAAATAAATA
 AATAAATAAAAAATAATAAGAAAAAGAGATGTTTCATATATATATAAATATTTCTTAT
 CTCANATGAAGTAAATAAGTCAATAATCTTTAGCTAATTGATGATCCCAGGGAATANG
 GAAATCTGTTCAAATTTCAATGAATTTACTAAGTAAAGAGCTCAGAAAAATTGGTTAGGC
 CATGGAATACTTANAGTTGAACCAACTTGACTANNATATAGATAGCTATTTCTATTCA
 GAACTGAACTCTTTGAAATGAAATATACTAAATGGGAGTGTTATTTAATACTAGTAAGA
 AGAGTGTGACTACTCGCACATATACATGGCCTATTACCTGAATTAAGTATATGGCATAT
 CTTGACTATNCCATGGNTGCCTAAAACTACATTTTAAAAATTTATTTGTAGCAGCAAGT
 TCCATTGCCTGCTGGATGGAAAAGCTTTTAAACCAACAGACTGACAAGCTGCTGG

Restriction Sites:

Please inquire

ACCN:

NM_015958

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_015958.1](#), [NP_057042.1](#)

RefSeq Size: 1457 bp

RefSeq ORF: 894 bp

Locus ID: 51611

UniProt ID: [Q9H2P9](#)

Cytogenetics: 1p21.2

Domains: TP_methylase

Gene Summary:

This gene encodes a component of the diphthamide synthesis pathway. Diphthamide is a post-translationally modified histidine residue found only on translation elongation factor 2. It is conserved from archaeobacteria to humans, and is targeted by diphtheria toxin and Pseudomonas exotoxin A to halt cellular protein synthesis. The yeast and Chinese hamster homologs of this protein catalyze the trimethylation of the histidine residue on elongation factor 2, resulting in a diphthine moiety that is subsequently amidated to yield diphthamide. Multiple transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a).