

Product datasheet for **SC310786**

DPH2 (NM_001039589) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPH2 (NM_001039589) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPH2
Synonyms:	DPH2L2
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001039589 edited
 AGAAACAGTAGTTAGGATGGCTGAAGGGGATACTCACCGGCTGAAGGCCGACTGTGATTC
 CCCCTACCCCAACAAGGCGATTTTGACCCCTGAGGGCTGCTCTAGAGGACTCAGGCCCC
 GAAGCTGTCCCAGGGAGTCCCCGCTGCATCCCACCACCAAGCTGTGCCTCATGGAGTC
 GATGTTTAGCAGCCCTGCCGAGGCGGCTGCAGCGAGAGACCGGGTGCCAGGACTGT
 TACTCCTCTCCGACCTGGACGGAGTGTACGAGCTGGAGCGAGTCGCTGGATTTGTCCG
 CGACCTGGGGTGTGAACGAGTTGCCTTGACGTTCCCTGACCAGCTATTGGGAGATGCTGT
 GGCTGTGGCTGCACGACTGGAGGAGACGACAGGGTCAAAGATGTTTCATTCTGGGTGACAC
 AGCCTACGGCAGCTGCTGCGTGGATGTGCTGGGTGCTGAGCAAGCTGGAGCTCAGGCTCT
 CATAATTTTGGCCCTGCCTGCTTAAGCCCTCCAGCCCGCCACTGCCGTTGCCTTCGT
 GCTTCGCAACGTTCTGTGGCCTTGAGGCTCTGTGTCAAGGCCTTTGAGGCCAGAACCC
 AGACCCAAAGCGCCTGTGGTGTGCTGAGTGAGCCGGCCTGTGCCATGCCCTGGGCTC
 TCCCTCCACGTGGCTCTCCCACCCTGAGTCAGAGCTGTGGGAAACCCAGACGTGTC
 ACTCATTACTGGAGATCTCCGACCCACCTGCCTGGAAGTCATCAAATGATCATGGAAG
 CTTGGCTCTGACCCACGCCCCAGCTGGAGCTGGCTGAGAGCAGTCCTGCAGCCTCATT
 CCTTAGTTCGCGAGCTGGCAAGGGCTGGAGCCCGCCTGGGTGACAGCCAGTGACAGA
 AGCTGTGAGTGGAAAGACGAGGGATTGCCATCGCCTATGAGGATGAGGGAAGCGGGTGATA
 CCATGTGGGGCTGGAGACATAGATGGACTTATGAATGGCTGCTAGGACCTTTAGTGCTCC
 CTGACCAACCTCCCATCCCTGCCAAGATCCTTGAAGGACCCTGGAAGGAGGGAGAGC
 AGGCAGCCCTTACAGGATAGGATCCGCTCTGTCTGCTGCTGGCACTGGCACAAGCTCA
 GCATATGCCAGTAATGCGTGTGTTGGCTGATGGAATAAAGGGCTTAGGGACTTCCCT
 GAGGCCTCTGGACCCATCTGTCTTCTGAGGGCAGCCAGGACCTTTGGCCAATCCCAGT
 TCCCAGGCTGCAGTTGAGGGTCTGTCTTGTCAAAGGCAGGTGCTAGACAGTCTAGACC
 AGGGTTTCTCAAACCTCGTACTTGACATTTGGGGCCAGATAATTCTTTGTTGTGGGGCTGT
 CTGGTGTATGGTAGGGTCTCAGCAGCATCCCTGGCCTCTGCCACTAGACATCAGAAGC
 ACTCCCCAGTTGTGACAACCAAAAATATCTCCAGACCTTGCAAAATGTTATCTGTGGGG
 GAAAATTGCCCTCAATTGAGAACCCTGGTCTAGCTAGACCTGCACTGTCCAGTACAGTA
 GCCACTAAATACATGTGGCTAACTTAAATTTAAGTTAATTAAGATTAAGGCTCAGTTT
 CTCAGTCACATTAGTCATTCAAGTGTTTCAGACAGCCACATGAGGGGACAGTGCAGCTACA
 GGATATGCCATCATGGCAGAAAGTTCTATTGGTTGGACAGTGTGGTCTATACTGACTCT
 TATTTCTCAGGGAGATCACAGCAACCTAAATAAACCCAGATACCTTTTCTTAAAAAAA
 AAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001039589
- Insert Size:** 1800 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001039589.1.
- 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_001039589.1](#), [NP_001034678.1](#)

RefSeq Size: 1829 bp

RefSeq ORF: 786 bp

Locus ID: 1802

UniProt ID: [Q9BQC3](#)

Cytogenetics: 1p34.1

Gene Summary: This gene is one of two human genes similar to the yeast gene dph2. The yeast gene was identified by its ability to complement a diphthamide mutant strain, and thus probably functions in diphthamide biosynthesis. Diphthamide is a post-translationally modified histidine residue present in elongation factor 2 (EF2) that is the target of diphtheria toxin ADP-ribosylation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.