

## Product datasheet for RC220529

### DPH5 (NM 015958) Human Tagged ORF Clone

### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** DPH5 (NM\_015958) Human Tagged ORF Clone

Tag: Myc-DDK DPH5

Synonyms: AD-018; CGI-30; HSPC143; NPD015

**Mammalian Cell** Neomycin

Selection:

Symbol:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

**ORF Nucleotide** >RC220529 representing NM\_015958

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTTTATCTCATCGGGTTGGGCCTGGGAGATGCCAAGGACATCACAGTCAAGGGCCTGGAAGTTGTTA GTTTTATGGAAGAAAATTGGTTGTTGCTGATAGAGAAGAAGTGGAACAAGAAGCAGATAATATTTTAAAG AGACCAGAAAGCTTCTTTGACAAAGTGAAGAAGAACAGACAAAATGGCATGCACACATTATGTTTACTAG TATGAGTGTAAACCAAGCAGCCCAGCAGCTTCTGGAGATTGTTCAAAAATCAAAGAATACGAGGAGAAGAA CCAGCAGTTACCGAGGAGACACTTTGTGTTGGCTTAGCCAGGGTTGGAGCCGACGACCAGAAAATTGCAG CAGGCACTTTAAGGCAAATGTGCACTGTGGACTTGGGAGAACCATTGCATTCCTTGATCATCACAGGAGG CAGCATACATCCAATGGAGATGGAGATGCTAAGTCTGTTTTCCATACCAGAAAATAGCTCAGAATCTCAA AGCATCAATGGACTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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>RC220529 representing NM\_015958 **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MLYLIGLGLGDAKDITVKGLEVVRRCSRVYLEAYTSVLTVGKEALEEFYGRKLVVADREEVEQEADNILK DADISDVAFLVVGDPFGATTHSDLVLRATKLGIPYRVIHNASIMNAVGCCGLQLYKFGETVSIVFWTDTW RPESFFDKVKKNRONGMHTLCLLDIKVKEOSLENLIKGRKIYEPPRYMSVNOAAOOLLEIVONORIRGEE PAVTEETLCVGLARVGADDQKIAAGTLRQMCTVDLGEPLHSLIITGGSIHPMEMEMLSLFSIPENSSESQ SINGL

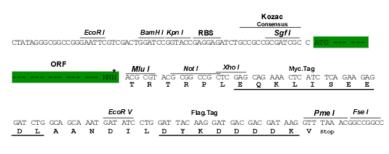
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8041 h03.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stan codon of the ORE

ACCN: NM 015958

**ORF Size:** 855 bp

**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

#### DPH5 (NM\_015958) Human Tagged ORF Clone - RC220529

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:** <u>NM 015958.3</u>

 RefSeq Size:
 1457 bp

 RefSeq ORF:
 858 bp

 Locus ID:
 51611

 UniProt ID:
 Q9H2P9

 Cytogenetics:
 1p21.2

**Domains:** TP\_methylase

**MW:** 31.5 kDa

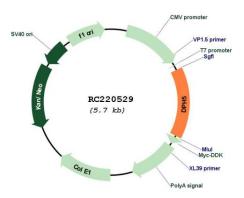
**Gene Summary:** This gene encodes a component of the diphthamide synthesis pathway. Diphthamide is a

post-translationally modified histidine residue found only on translation elongation factor 2. It is conserved from archaebacteria 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.

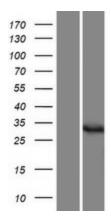
[provided by RefSeq, Jul 2008]



# **Product images:**

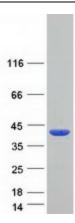


Circular map for RC220529



Western blot validation of overexpression lysate (Cat# [LY414310]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220529 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified DPH5 protein (Cat# [TP320529]). The protein was produced from HEK293T cells transfected with DPH5 cDNA clone (Cat# RC220529) using MegaTran 2.0 (Cat# [TT210002]).