

Product datasheet for **RG220529**

DPH5 (NM_015958) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPH5 (NM_015958) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPH5
Synonyms:	AD-018; CGI-30; HSPC143; NP015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220529 representing NM_015958 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTTATCTCATCGGGTTGGGCTGGGAGATGCCAAGGACATCACAGTCAAGGGCCTGGAAGTTGTTA
 GACGCTGCAGTCGAGTGTATCTGGAAGCCTACACCTCAGTCCTAACTGTAGGGAAGGAAGCCTTGAAGA
 GTTTTATGGAAGAAAATTGGTTGTTGCTGATAGAGAAGAAGTGAACAAGAAGCAGATAATATTTTAAAG
 GATGCTGATATCAGTGATGTTGCATTCTTGTGGTTGGTATCCATTTGGGGCCACAACACACAGTGATC
 TTGTTCTAAGAGCAACAAAGCTGGGAATTCCTTATAGAGTTATTACAATGCCTCCATAATGAATGCTGT
 AGGCTGCTGTGGTTTACAGTTATATAAGTTTGGAGAGACAGTTTCTATTATGCTGATATCAGTGATGTTG
 CATTCTTGTGGTTGGTATCCATTTGGACACTTGGAGACCAGAAAGCTTCTTTGACAAAGTGAAGAAGA
 ACAGACAAAATGGCATGCACACATTATGTTTACTAGACATCAAAGTAAAGGAGCAGTCTTTGGAATCT
 AATCAAGGAAGGAAGATCTATGAACCTCCACGGTATATGAGTGTAAACCAAGCAGCCCAGCAGCTTCTG
 GAGATTGTTCAAATCAAAGAATACGAGGAGAAGAACCAGCAGTTACCGAGGAGACACTTTGTGTTGGCT
 TAGCCAGGGTTGGAGCCGACGACCAGAAAATTGCAGCAGGCACTTAAGGCAAATGTGCACTGTGGACTT
 GGGAGAACCATTGCATTCTTGTATCATCAGGAGGCAGCATACATCCAATGGAGATGGAGATGCTAAGT
 CTGTTTTCCATACCAAGAAATAGCTCAGAATCTCAAAGCATCAATGGACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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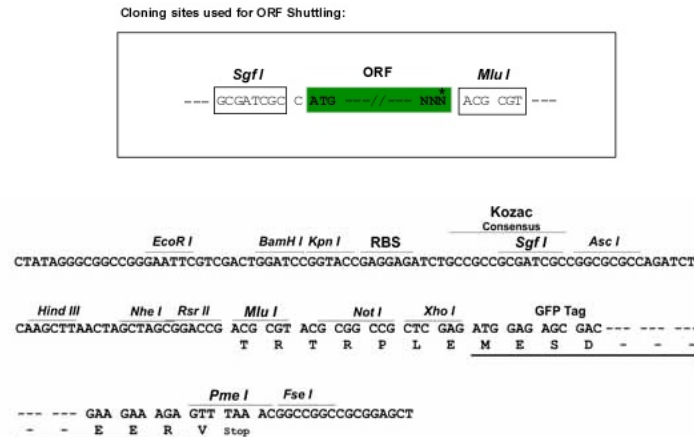
Protein Sequence: >RG220529 representing NM_015958
 Red=Cloning site Green=Tags(s)

MLYLIGLGLDAKDITVKGLEVVRRCSRYYLEAYTSVLTVGKEALEEFYGRKLVVADREEVEQEADNILK
 DADISDVAFLVVGDPFGATTHSDLVLRATKLGIPYRVIHNASIMNAVGCCGLQLYKFGETVSIMLISVML
 HSLWLVIHLDTWRPESFFDKVKKNRQNGMHTLCLLDIKVKEQSLENLIKGRKIYEPPRYMSVNQAAQQLL
 EIVQNQRIRGEPAVTEETLCVGLARVGADDQKIAAGTLRQMCTVDLGEPLHSLIITGGSIHPMEMEMLS
 LFSIPENSSESQSINGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015958

ORF Size: 891 bp

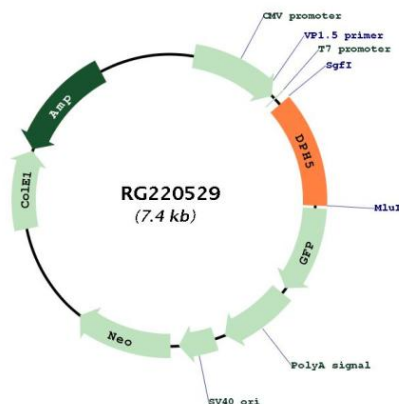
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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_015958.1, NP_057042.1</u>
RefSeq Size:	1457 bp
RefSeq ORF:	858 bp
Locus ID:	51611
UniProt ID:	<u>Q9H2P9</u>
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]

Product images:



Circular map for RG220529