

Product datasheet for **RG212100**

DPH5 (NM_001077394) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DPH5
Synonyms:	AD-018; CGI-30; HSPC143; NPD015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212100 representing NM_001077394
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTTATCTCATCGGGTTGGGCCTGGGAGATGCCAAGGACATCACAGTCAAGGGCCTGGAAGTTGTTA
GACGCTGCAGTCGAGTGTATCTGGAAGCCTACACCTCAGTCCTAACTGTAGGGAAGGAAGCCTTGAAGA
GTTTTATGGAAGAAATGGTTGTTGCTGATAGAGAAGAAGTGAACAAGAAGCAGATAATATTTAAAG
GATGCTGATATCAGTGATGTTGCATTCCTTGTTGGTGGTGATCCATTGGGGCCACAACACACAGTGATC
TTGTTCTAAGAGCAACAAAGCTGGGAATTCCTTATAGAGTTATTCACAATGCCTCCATAATGAATGCTGT
AGGCTGCTGTGTTTACAGTTATATAAGTTTGGAGAGACAGTTTCTATTGTTTTTTGGACAGACACTTGG
AGACCAGAAAGCTTCTTTGACAAAGTGAAGAAGACAGACAAAATGGCATGCACACATTATGTTTACTAG
ACATCAAAGTAAAGGAGCAGTCTTTGAAAATCTAATCAAGGGAAGGAAGATCTATGAACCTCCACGGTA
TATGAGTGTAACCAAGCAGCCAGCAGCTTCTGGAGATTGTTCAAATCAAAGAAACGAGGAGAAGAA
CCAGCAGTTACCGAGGAGACACTTTGTGTTGGCTTAGCCAGGGTTGGAGCCGACGACAGAAAATTCGAG
CAGGCACCTTAAGGCAATGTGCACTGTGGACTTGGGAGAACCATTGCATTCTTGATCATCACAGGAGG
CAGCATACATCCAATGGAGATGGAGATGCTAAGTCTGTTTTCCATACCAGAAAAATAGCTCAGAATCTCAA
AGCATCAATGGACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG212100 representing NM_001077394

Red=Cloning site Green=Tags(s)

MLYLIGLGLDAKDITVKGLEVVRRCSRVLAYTSVLTVGKEALEEFYGRKLVVADREEVEQADNLIK
DADISDVAFLVVGDPFGATTHSDLVLRATKLGIPYRVIHNASIMNAVGCCGLQLYKFGETVSIWFDTW
RPESFFDKVKKNRQNGMHTLCLLDIKVKEQSLNLIKGRKIYEPYRMSVNQAAQQLLEIVQNQRIRGEE
PAVTEETLCVGLARVGADDQKIAAGTLRQMCTVDLGEPLHSLIITGGSIHPPMEMEMLSLFSIPENSESQ
SINGL

TRTRPLE - GFP Tag - V

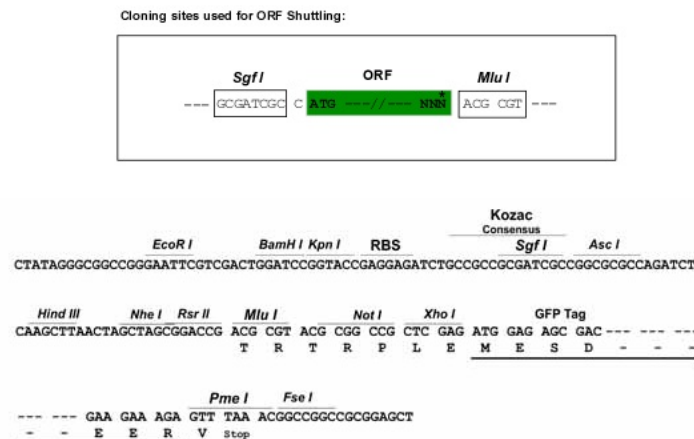
Chromatograms:

https://cdn.origene.com/chromatograms/ja1697_b06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001077394

ORF Size:

855 bp

OTI Disclaimer:

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:

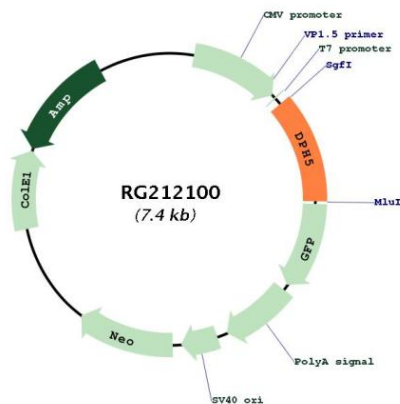
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001077394.1 , NP_001070862.1
RefSeq Size:	1828 bp
RefSeq ORF:	858 bp
Locus ID:	51611
UniProt ID:	Q9H2P9
Cytogenetics:	1p21.2
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 RG212100