

Product datasheet for **RG221230**

DPH2 (NM_001039589) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DPH2 (NM_001039589) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DPH2
Synonyms: DPH2L2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221230 representing NM_001039589
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCGATGTTTAGCAGCCCTGCCGAGGCGGCTGCAGCGAGAGACCGGGTGCCAGGACTGCTTA
 CTCCTCTCCGGACCTGGACGGAGTGTACGAGCTGGAGCGAGTCGCTGGATTTGCCGACCTGGGGTG
 TGAACGAGTTGCCTTGCACTTCCCTGACCAGCTATTGGGAGATGCTGTGGCTGTGGCTGCACGACTGGAG
 GAGACGACAGGGTCAAAGATGTTCACTTCTGGGTGACACAGCCTACGGCAGCTGCTGCGTGGATGTGCTGG
 GTGCTGAGCAAGCTGGAGCTCAGGCTCTACATATTTGGCCCTGCTGCTTAAGCCCTCCAGCCCGCCC
 ACTGCCGTTGCCTTCGTGCTTCAAGCTTCTGTGGCCTTGGAGCTCTGTGTCAAGGCCCTTGGAGGCC
 CAGAACCAGACCCCAAAGCGCCTGTGGTGTGCTGAGTGAGCCGGCCTGTGCCATGCCCTGGGCTCTC
 CCTTCCAGTGGCTCTCCACCACCTGAGTCAGAGCTGTGGAAACCCAGACGTGCACTCATTACTGG
 AGATCTCCGACCCACCTGCCTGGAAGTCATCAATGATCATGGAAGCTTGGCTCTGACCCACGGCCC
 CAGCTGGAGCTGGCTGAGAGCAGTCTGCAGCCTCATTCTTAGTTCCCGGAGCTGGCAAGGGCTGGAGC
 CCCGCTGGGTGAGCGCCAGTGACAGAAGCTGTGAGTGAAGACGAGGGATTGCCATCGCCTATGAGGA
 TGAGGGAAGCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221230 representing NM_001039589
 Red=Cloning site Green=Tags(s)

MESMFSSPAEALQRETGVPGLLTPLPDLGVIYELERVAGFVRDLGCERVALQFPDQLLGDAVAVAAARLE
 ETTGSKMFI LGDTAYGSCCVDLGAEQAGA QAL IHFGPA CLSPPARLPVAFVLRQRSVALELCVKAFEA
 QNPDPKAPVLLSE PACAHALGSPFHVALPPPESELWETPDVSLITGDLRPPPAWKSSNDHGSLALTPRP
 QLELAESSPAASF LSSRSWQGLEPRLGQTPVTEAVSGRRGIAIAYEDEGSG

TRTRPLE - GFP Tag - V

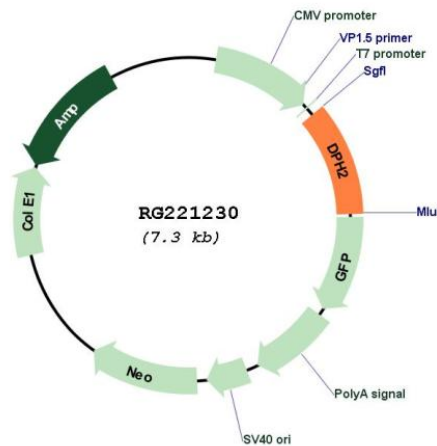
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001039589

ORF Size: 783 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:	<ol style="list-style-type: none">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_001039589.2
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]