

Product datasheet for **RG209088**

DPH4 (DNAJC24) (NM_181706) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DPH4 (DNAJC24) (NM_181706) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DPH4
Synonyms: DPH4; JJJ3; ZCSL3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209088 representing NM_181706
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGGTTGAGCAGATGCCAAAAAGGATTGGTACAGCATCCTGGGAGCAGACCCATCTGCAAATATAT
 CAGACCTAAAACAAAAATATCAAAACTCATATTAATGTATCATCCAGATAAACAAAGTACAGATGTACC
 AGCAGGAACAGTGGAGGAATGTGTACAGAAGTTCATCGAAATTGATCAAGCATGGAAAATCTAGGAAAT
 GAAGAGACAAAAAGAGAGTATGACCTGCAGCGGTGTGAAGATGATCTAAGAAATGTAGGACCAGTAGATG
 CTAAGTATATCTTGAAGAAATGTCTTGAATGAAGGTGATCACTCTTTTATCTGAGTTGCAGATGTGG
 TGGAAAATACAGTGTTTCCAAGGATGAAGCGGAAGAAGTTAGCCTGATTTCTTGATACATGTTCACTA
 ATTATAGAACTCCTTCATTATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209088 representing NM_181706
Red=Cloning site Green=Tags(s)

MAVEQMPKKDWYSILGADPSANISDLKQKYQKLILMYHPDKQSTDVPAGTVEECVQKFIEIDQAWKILGN
 EETKREYDLQRCEDDLNRVGPVDAQVYLEEMSWNEGDSFYLSRCGGKYSVSKDEAEVSLISCDTCSL
 IIELLHYN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


[View online »](#)

Cloning Scheme:


ACCN: NM_181706

ORF Size: 444 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_181706.3](#), [NP_859057.3](#)

RefSeq Size: 3000 bp

RefSeq ORF: 450 bp

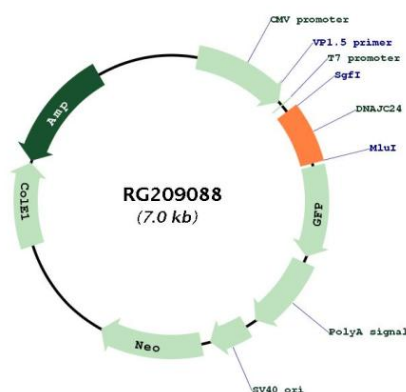
Locus ID: 120526

UniProt ID: [Q6P3W2](#)

Cytogenetics: 11p13

Gene Summary: Diphthamide is a unique posttranslationally modified histidine found only in translation elongation factor-2 (EEF2; MIM 130610). This modification is conserved from archaeobacteria to humans and serves as the target for ADP-ribosylation and inactivation of EEF2 by diphtheria toxin (DT) and Pseudomonas exotoxin A. DPH4 is 1 of several enzymes involved in synthesis of diphthamide in EEF2 (Liu et al., 2004 [PubMed 15485916]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG209088