

## Product datasheet for **RC209088**

### 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:** Myc-DDK  
**Symbol:** DPH4  
**Synonyms:** DPH4; JJJ3; ZCSL3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC209088 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTTGAGCAGATGCCAAAAAGGATTGGTACAGCATCCTGGGAGCAGACCCATCTGCAAATATAT  
CAGACCTAAAACAAAAATATCAAAAACATATTAATGTATCATCCAGATAAACAAAGTACAGATGTACC  
AGCAGGAACAGTGGAGGAATGTGTACAGAAGTTCATCGAAATTGATCAAGCATGGAAAATTCTAGGAAAT  
GAAGAGACAAAAAGAGAGTATGACCTGCAGCGGTGTGAAGATGATCTAAGAAATGTAGGACCAGTAGATG  
CTCAAGTATATCTTGAAGAAATGTCTTGAATGAAGGTGATCACTTTTTATCTGAGTTGCAGATGTGG  
TGGAAAATACAGTGTTCGAAGGATGAAGCGGAAGAAGTTAGCCTGATTTCTTGATACATGTTCACTA  
ATTATAGAACTCCTTCATTATAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209088 protein sequence  
Red=Cloning site Green=Tags(s)  
MAVEQMPKKDWYSILGADPSANISDLKQKYQKILMYHPDKQSTDVPAGTVEECVQKFIEIDQAWKILGN  
EETKREYDLQRCEDDLNRNVPVDAQVYLEEMSWNEGDSFYLSRCRGGKYSVSKDEAAEEVSLISCDTCSL  
IIELLHYN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6358\\_h08.zip](https://cdn.origene.com/chromatograms/mk6358_h08.zip)



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Restriction Sites: SgfI-MluI

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

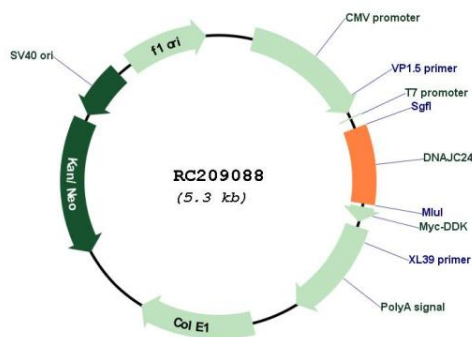
RefSeq ORF: 450 bp

Locus ID: 120526  
 UniProt ID: [Q6P3W2](#)

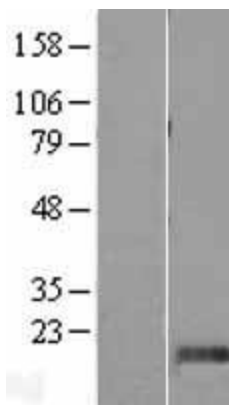
Cytogenetics: 11p13  
 MW: 17 kDa

**Gene Summary:** Diphthamide is a unique posttranslationally modified histidine found only in translation elongation factor-2 (EEF2; MIM 130610). This modification is conserved from archaebacteria 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]

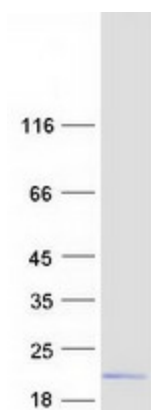
**Product images:**



Circular map for RC209088



Western blot validation of overexpression lysate (Cat# [LY405653]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209088 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNAJC24 protein (Cat# [TP309088]). The protein was produced from HEK293T cells transfected with DNAJC24 cDNA clone (Cat# RC209088) using MegaTran 2.0 (Cat# [TT210002]).