

Product datasheet for **RC204203**

DPH3 (NM_206831) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DPH3 (NM_206831) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DPH3
Synonyms: DELGIP; DELGIP1; DESR1; DPH3A; KTI11; ZCSL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204203 ORF sequence
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGTGTTCATGACGAGGTGAAATCGAGGACTTCCAATATGACGAGGACTCGGAGACGTATTTCT
ATCCCTGCCCATGTGGAGATAACTTCTCCATACCAAGGAAGATTTGGAGAATGGGAAGACGTGGCAAC
GTGTCCTAGCTGCTCTCATTATAAAAGTGATTTATGACAAAGATCAGTTTGTGTGGAGAAACAGTC
CCAGCCCCTTCAGCCAACAAAGAATTAGTTAAATGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204203 protein sequence
Red=Cloning site **Green**=Tags(s)
MAVFHDEVEIEDFYDEDESETYFPCPCGDNFSITKEDLENGEDVATCPSCSLIIKVIYDKDQFVCGETV
PAPSANKELVKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6431_f12.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_206831

ORF Size: 246 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.

RefSeq: [NM_206831.3](#)

RefSeq Size: 4065 bp

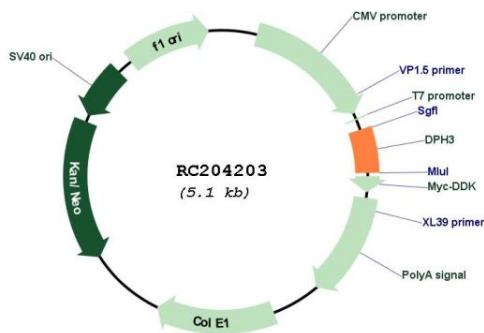
RefSeq ORF: 249 bp

Locus ID: 285381

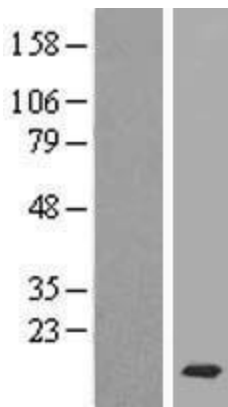
UniProt ID: [Q96FX2](#)
 Cytogenetics: 3p25.1
 MW: 9.2 kDa

Gene Summary: This gene encodes a CSL zinc finger-containing protein that is required for diphthamide biosynthesis. The encoded protein is necessary for the initial step in the modification of a histidine residue in elongation factor-2 to diphthamide. This modified residue is a target for ADP ribosylation by the bacterial toxins diphtheria toxin and Pseudomonas exotoxin A. Alternative splicing results in multiple transcript variants that encode the same isoform. [provided by RefSeq, Feb 2009]

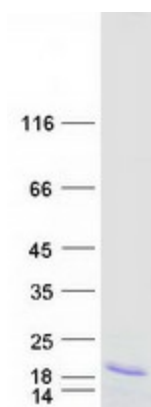
Product images:



Circular map for RC204203



Western blot validation of overexpression lysate (Cat# [LY404231]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204203 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPH3 protein (Cat# [TP304203]). The protein was produced from HEK293T cells transfected with DPH3 cDNA clone (Cat# RC204203) using MegaTran 2.0 (Cat# [TT210002]).