

Product datasheet for SC317246

DPH4 (DNAJC24) (NM_181706) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPH4 (DNAJC24) (NM_181706) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPH4
Synonyms:	DPH4; JJJ3; ZCSL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317246 representing NM_181706. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGATGGCGTTGAGCAGATGCCAAAAAGGATTGGTACAGCATCCTGGGAGCAGACCCATCTGCAAA
 ATATCAGACCTAAACAAAAATATCAAAATCATATTAATGTATCATCCAGATAAACAAAGTACAGAT
 GTACCAGCAGGAACAGTGGAGGAATGTGTACAGAAGTTCATCGAAATTGATCAAGCATGGAAATTTCTA
 GGAAATGAAGAGACAAAAAGAGAGTATGACCTGCAGCGGTGTGAAGATGATCTAAGAAATGTAGGACCA
 GTAGATGCTCAAGTATATCTTGAAGAAATGTCTTGAATGAAGGTGATCACTCTTTTATCTGAGTTGC
 AGATGTGGTGGAAATACAGTGTTCGAAGGATGAAGCGGAAGAAGTTAGCCTGATTTCTGTGATACA
 TGTTCATAATTATAGAACTCCTTCATTATAACTAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_181706
Insert Size:	450 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_181706.4</u>
RefSeq Size:	3000 bp
RefSeq ORF:	450 bp
Locus ID:	120526
UniProt ID:	<u>Q6P3W2</u>
Cytogenetics:	11p13
MW:	17.1 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]