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Product datasheet for RC226708

ATPBD4 (DPH6) (NM_001141972) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATPBD4 (DPH6) (NM_001141972) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATPBD4
Synonyms:	ATPBD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC226708 representing NM_001141972
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGTCGCGGCTCTGATCAGTGGTGGGAAGGACAGCTGCTATAATATGATGCAGTGCATTGCTGCTG
GGCATCAGATCGTTGCTTTAGCAAATCTAAGACCAGCTGAAAACCAAGTGGGGTCTGATGAACTGGATAG
CTACATGTATCAGACAGTGGGGCACCATGCCATTGACTTGTATGCAGAAGCAATGGCTCTTCCCCTCTAT
CGCCGAACCATAAGAGGAAGGAGCTTGGATACAAGACAAGTGTACACCAAATGTGAAGGTGATGAGGTTG
AAGATCTCTATGAGCTTTTGAAACTTGTTAAGGGCATCACTAGAATGACCTTGCTTGCTGAATATGATGC
TCTGAATCTCCAAGATTTTCACATGCATTTGAAAGTGGGCAGCCAGGCGATTGTTTACAGGACTCCAAAT
GAACTGTGCACTCACAGCAAGTTTGATAAACACACATTTCCTCCTTTTATCAGTGAGATTGCAAAATGTG
AAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226708 representing NM_001141972
Red=Cloning site Green=Tags(s)

MRVAALISGGKDSCYNMMQCIAAGHQIVALANLRPAENQVGSDELDSYMYQTVGHHAIDLYAEAMALPLY
RRTIRGRSLDTRQVYTKCEGDEVEDLYELLKLVKGITRMTLLAEYDALNLQDFHMHLKVGSQAIVYRTPN
ELCTHSKFDKHTFPPFISEIAKCEV

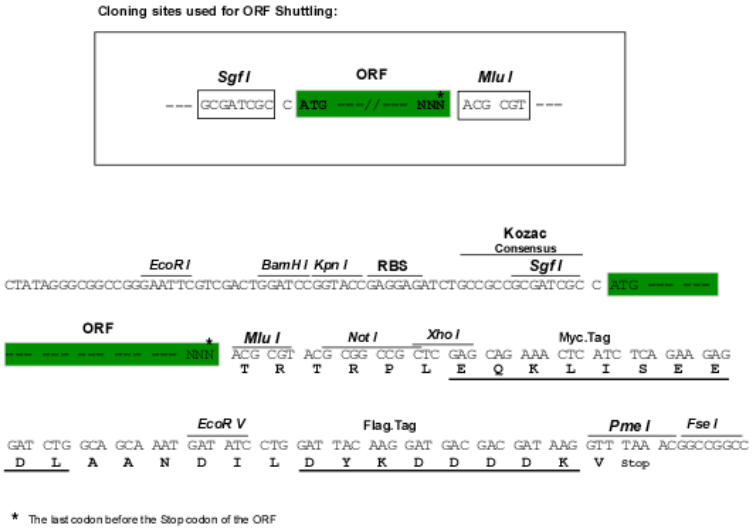
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1448_d11.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001141972

ORF Size: 495 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_001141972.2

RefSeq ORF: 498 bp

Locus ID: 89978

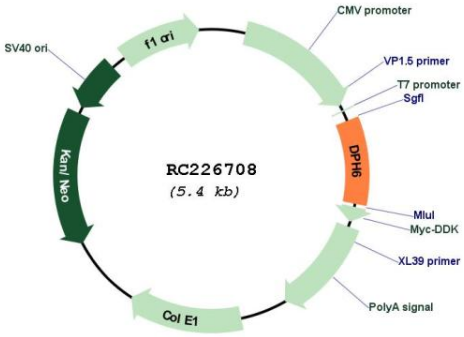
UniProt ID: Q7L8W6

Cytogenetics: 15q14

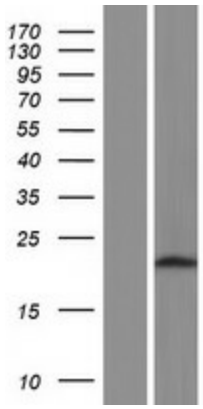
MW: 18.5 kDa

Gene Summary: Amidase that catalyzes the last step of diphthamide biosynthesis using ammonium and ATP. Diphthamide biosynthesis consists in the conversion of an L-histidine residue in the translation elongation factor (EEF2) to diphthamide (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC226708



Western blot validation of overexpression lysate (Cat# [LY427988]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226708 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).