

Product datasheet for **RC209471**

ATPBD4 (DPH6) (NM_080650) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ATPBD4 (DPH6) (NM_080650) 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: | >RC209471 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGTCGCGGCTCTGATCAGTGGTGGGAAGGACAGCTGCTATAATATGATGCAGTGCATTGCTGCTG
GGCATCAGATCGTTGCTTAGCAAATCTAAGACCAGCTGAAAACCAAGTGGGGTCTGATGAACTGGATAG
CTACATGTATCAGACAGTGGGGCACCATGCCATTGACTTGTATGCAGAAGCAATGGCTCTCCCTCTAT
CGCCGAACCATAAGAGGAAGGAGCTTGGATAACAAGACAAGTGTACACCAAATGTGAAGGTGATGAGGTTG
AAGATCTCTATGAGCTTTTGAACCTTGTAAAGGAAAAAGAAGAAGTAGAGGGGATATCAGTAGGTGCTAT
ACTTTCTGACTATCAGCGTATTCGAGTGGAAAATGTGTGTAAAAGGCTTAATCTCCAGCCTTTAGCTTAT
CTTTGGCAGAGAAACCAGGAAGATTTGCTCAGAGAGATGATATCATCTAACATTCAGCAATGATCATCA
AAGTAGCAGCTTTGGGTTTAGATCCTGATAAGCATCTTGGGAAAACCTGGATCAAATGGAGCCTTATCT
CATAGAGCTTTCTAAGAAGTATGGAGTACATGTTTGTGGAGAAGGTGGAGAGTATGAAACTTTCACCTTG
GATTGCCCTCTATTTAAGAAGAAAATAATTGTGGATTCATCAGAAGTAGTCATACATTCAGCTGATGCAT
TTGCACCTGTGGCTTATCTACGCTTTTTAGAATTGCATTGGAGGACAAGGTGTCCTCAGTGCCTGACAA
CTACAGAACATCTAATTATATATATAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209471 protein sequence
 Red=Cloning site Green=Tags(s)

MRVAALISGGKDCSCYNMMQCIAAGHQIVALANLRPAENQVGSDELDSYMYQTVGHHAILDYAEAMALPLY
 RRTIRGRSLDTRQVYTKCEGDEVEDLYELLKLVKEEVEGIVSGAILSDYQIRIRVENVCKRLNLQPLAY
 LWQRNQEDLLREMISSNIQAMIKVAALGLDPDKHLGKTLDQMEPYLIELSKKYGVHVCGEGETFTFL
 DCPLFKKKIIVDSSEVVIHSADAFAPVAYLRFLELHLEDKVVSSVDPNYRTSNYIYNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6356_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080650

ORF Size: 801 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_080650.4](#)

RefSeq Size: 2139 bp

RefSeq ORF: 804 bp

Locus ID: 89978

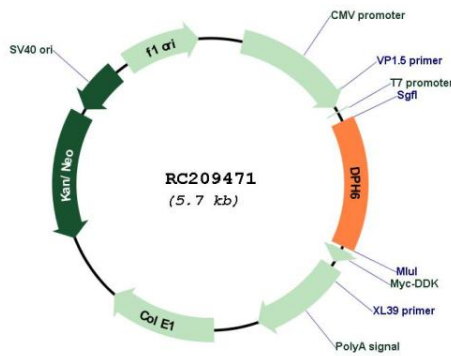
UniProt ID: [Q7L8W6](#)

Cytogenetics: 15q14

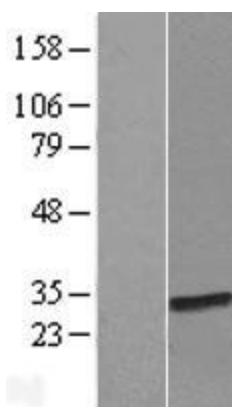
MW: 30.3 kDa

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]

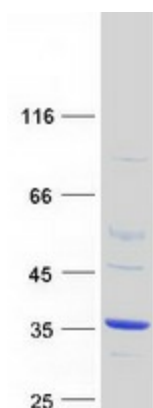
Product images:



Circular map for RC209471



Western blot validation of overexpression lysate (Cat# [LY409120]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209471 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPH6 protein (Cat# [TP309471]). The protein was produced from HEK293T cells transfected with DPH6 cDNA clone (Cat# RC209471) using MegaTran 2.0 (Cat# [TT210002]).