

## Product datasheet for **RG209471**

### 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:	TurboGFP
Symbol:	ATPBD4
Synonyms:	ATPBD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209471 representing NM_080650 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGGTCGCGGCTCTGATCAGTGGTGGGAAGGACAGCTGCTATAATATGATGCAGTGCATTGCTGCTG  
GGCATCAGATCGTTGCTTTAGCAAATCTAAGACCAGCTGAAAACCAAGTGGGGTCTGATGAACTGGATAG  
CTACATGTATCAGACAGTGGGGCACCATGCCATTGACTTGTATGCAGAAGCAATGGCTCTTCCCCTCTAT  
CGCCGAACCATAAGAGGAAGGAGCTTGGATAACAAGACAAGTGTACACCAAATGTGAAGGTGATGAGGTTG  
AAGATCTCTATGAGCTTTTGAACTTGTTAAGGAAAAAGAAGAAGTAGAGGGGATATCAGTAGGTGCTAT  
ACTTTCTGACTATCAGCGTATTCGAGTGGAAAATGTGTGTAAAAGGCTTAATCTCCAGCCTTTAGCTTAT  
CTTTGGCAGAGAAACCAGGAAGATTTGCTCAGAGAGATGATATCATCTAACATTCAGCAATGATCATCA  
AAGTAGCAGCTTTGGGTTTAGATCCTGATAAGCATCTTGGGAAAACCTGGATCAAATGGAGCCTTATCT  
CATAGAGCTTTCTAAGAAGTATGGAGTACATGTTTGTGGAGAAGGTGGAGAGTATGAAACTTTCACCTTG  
GATTGCCCTCTATTTAAGAAGAAAATAATTGTGGATTCATCAGAAGTAGTCATACATTCAGCTGATGCAT  
TTGCACCTGTGGCTTATCTACGCTTTTTAGAATTGCACCTGGAGGACAAGGTGCCTCAGTGCCTGACAA  
CTACAGAACATCTAATTATATATAATTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG209471 representing NM\_080650  
 Red=Cloning site Green=Tags(s)

MRVAALISGGKDCSCYNMMQCIAAGHQIVALANLRPAENQVGSDELDSYMYQTVGHHAILDYAEAMALPLY  
 RRTIRGRSLDTRQVYTKCEGDEVEDLYELLKLVKEEVEGIVSGAILSDYQIRIRVENVCKRLNLQPLAY  
 LWQRNQEDLLREMISSNIQAMIKVAALGLDPDKHLGKTLDQMEPYLIELSKKYGVHVCGEGETFTL  
 DCPLFKKKIIVDSSEVVIHSADAFAPVAYLRFLLEHLLEDKVSSVDPDNYRTSNYIYNF

TRTRPLE - GFP Tag - V

**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:** 2093 bp

**RefSeq ORF:** 804 bp

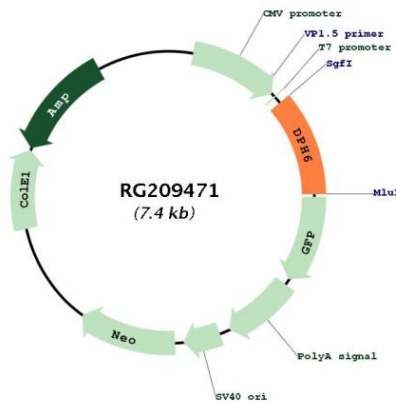
**Locus ID:** 89978

**UniProt ID:** [Q7L8W6](#)

**Cytogenetics:** 15q14

**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 RG209471