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Product datasheet for RG226708

ATPBD4 (DPH6) (NM_001141972) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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:

>RG226708 representing NM_001141972
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGTCGCGGCTCTGATCAGTGGTGGGAAGGACAGCTGCTATAATATGATGCAGTGCATTGCTGCTG
GGCATCAGATCGTTGCTTTAGCAAATCTAAGACCAGCTGAAAACCAAGTGGGGTCTGATGAACTGGATAG
CTACATGTATCAGACAGTGGGGCACCATGCCATTGACTTGTATGCAGAAGCAATGGCTCTTCCCCTCTAT
CGCCGAACCATAAGAGGAAGGAGCTTGGATACAAGACAAGTGTACACCAAATGTGAAGGTGATGAGGTTG
AAGATCTCTATGAGCTTTTGAAACTTGTTAAGGGCATCACTAGAATGACCTTGCTTGCTGAATATGATGC
TCTGAATCTCCAAGATTTTCACATGCATTTGAAAGTGGGCAGCCAGGCGATTGTTTACAGGACTCCAAAT
GAACTGTGCACTCACAGCAAGTTTGATAAACACACATTTCCTCCTTTTATCAGTGAGATTGCAAAATGTG
AAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226708 representing NM_001141972
Red=Cloning site Green=Tags(s)

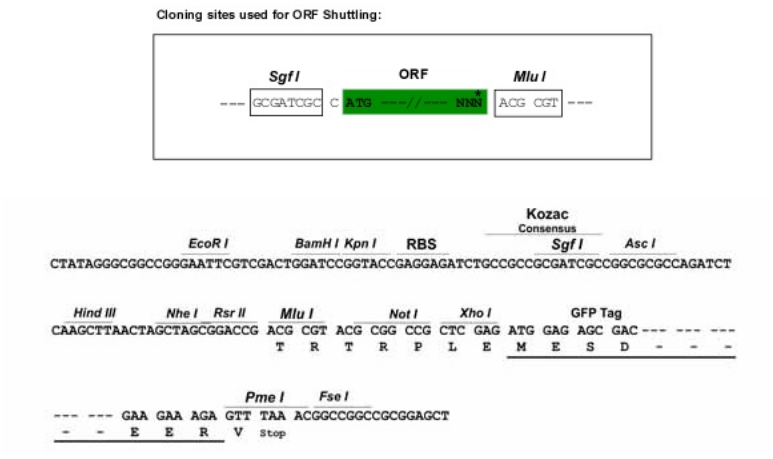
MRVAALISGGKDSCYNMMQCIAAGHQIVALANLRPAENQVGSDELDSYMYQTVGHHAIDLYAEAMALPLY
RRTIRGRSLDTRQVYTKCEGDEVEDLYELLKLVKGITRMTLLAEYDALNLQDFHMHLKVGSQAIVYRTPN
ELCTHSKFDKHTFPPFISEIAKCEV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001141972.2

RefSeq Size: 2380 bp

RefSeq ORF: 498 bp

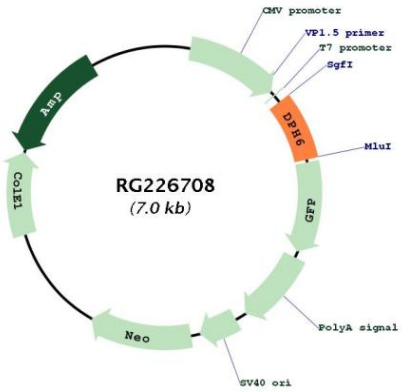
Locus ID: 89978

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 RG226708