

Product datasheet for **MG202634**

Atpbd4 (BC022995) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Atpbd4 (BC022995) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Atpbd4
 Synonyms: 5730421E18Rik; Atpbd4
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG202634 representing BC022995
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGTCGCGGCCCTGATCAGTGGTGGGAAGGACAGCTGTTACAACATGATGCAGTGCATTGCTGAGG
 GGCATCAAATTGTTGCATTAGCAAATCTAAGACCAGATGAAAACCAAGTGGAGTCAGATGAACTGGATAG
 CTATATGTATCAGACAGTGGTCCACATGCCATTGACTTGTATGCTGAAGCAATGGCGTGCCCTGTAT
 CGCAGAGCCATCAGAGGAAGGAGCTTGGAGACAGGAAGAGTTTATACGCAATGTGAAGGTGACGAGGTTG
 AAGATCTCTATGAACTGTTGAACTTGTAAAGGAAAAAGAAGAAATCGAAGGGGTATCAGTAGGTGCTAT
 ACTCTCTGACTATCAACGTGGACGAGTAGAAAATGTATGTAAACGACTCAATCTCCAGCCTTAGCTTAT
 CTTTGGCAAAGAAACCAGGAAGATTTGCTCCGAGAGATGATAGCTTCTAATATCAAGGCCATTATCATCA
 AAGTAGCAGCTTTGGCTTAGATCCTGATAAGCATCTTGGGAAAACCTGGTTGAAATGGAGCCTTATCT
 TTTAGAGGGACTCTTCAGAAGCAGTCATGCACTCAGCGGATGCATTGCGACCTGTGGCTTATCTGCGGCT
 CTCCCGCTGCACTTGAAGAGAAAGTGTGTCAGTACCTGCGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202634 representing BC022995
 Red=Cloning site Green=Tags(s)

MRVAALISGGKDCSCYNMMQCIAEGHQIVALANLRPDENQVESDELDSYMYQTVGHHAILDYAEAMALPLY
 RRAIRGRSLETGRVYTQCEGDEVEDLYELLKLVKEKEEIEGVSVGAILSDYQRGRVENVCKRLNLQPLAY
 LWQRNQEDLLREMIASNIKAI I I KVAALGLDPDKHLGKTLVEMEPYLLLEGLFRSSHALSGCIRTCLGSAAL
 LPAALGRESVVSTCG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC022995

ORF Size: 677 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: [BC022995](#), [AAH22995](#)

RefSeq Size: 2693 bp

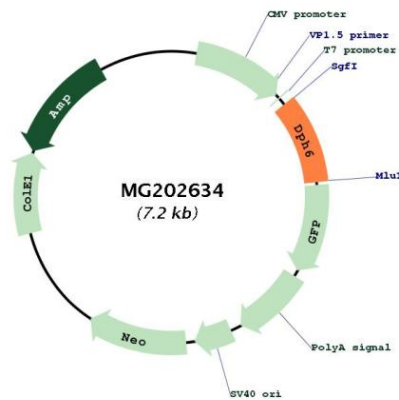
RefSeq ORF: 677 bp

Locus ID: 66632

Cytogenetics: 2 E4

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 2 (EEF2) to diphthamide (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202634