

Product datasheet for **MR202634**

Atpbd4 (BC022995) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atpbd4 (BC022995) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atpbd4
Synonyms:	5730421E18Rik; Atpbd4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202634 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGTCGCGGCCCTGATCAGTGGTGGGAAGGACAGCTGTTACAACATGATGCAGTGCATTGCTGAGG
GGCATCAAATTGTTGCATTAGCAAATCTAAGACCAGATGAAAACCAAGTGGAGTCAGATGAACTGGATAG
CTATATGTATCAGACAGTGGGTCACCATGCCATTGACTTGTATGCTGAAGCAATGGCGTGCCCTGTAT
CGCAGAGCCATCAGAGGAAGGAGCTTGGAGACAGGAAGAGTTTATACGCAATGTGAAGGTGACGAGGTTG
AAGATCTCTATGAACTGTTGAACTTGTAAAGGAAAAAGAAGAAATCGAAGGGGTATCAGTAGGTGCTAT
ACTCTCTGACTATCAACGTGGACGAGTAGAAAATGTATGTAAACGACTCAATCTCCAGCCTTTAGCTTAT
CTTTGGCAAAGAAACCAGGAAGATTTGCTCCGAGAGATGATAGCTTCTAATATCAAGGCCATTATCATCA
AAGTAGCAGCTTTGGGCTTAGATCCTGATAAGCATCTTGGGAAAACCTGGTTGAAATGGAGCCTTATCT
TTTAGAGGGACTTTCAGAAGCAGTCATGCACTCAGCGGATGCATTGCGACCTGTGGCTTATCTGCGGCT
CTCCCGGCTGCACTTGGAAAGAGAAAGTGTGTCAGTACCTGCGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202634 protein sequence
 Red=Cloning site Green=Tags(s)

MRVAALISGGKSDSCYNMMQCIAEGHQIVALANLRPDENQVESDELDSYMYQTVGHHAILDYAEAMALPLY
 RRAIRGRSLETGRVYTQCEGDEVEDLYELLKLVKEEEIEGVSVGAILSDYQRGRVENVCKRLNLQPLAY
 LWQRNQEDLLREMIASNIKAI I I KVAALGLDPDKHLGKTLVEMEPYLLLEGLFRSSHALSGCIRTCLGSAAL
 LPAALGRESVVSTCG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC022995

ORF Size: 675 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

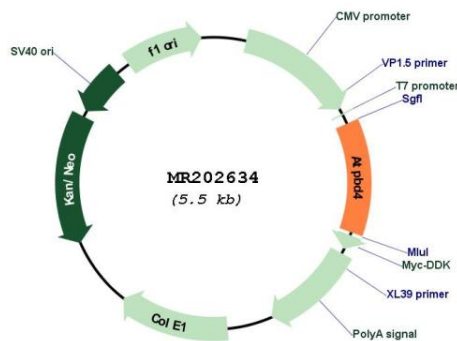
Locus ID: 66632

Cytogenetics: 2 E4

MW: 25 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 2 (EEF2) to diphthamide (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202634