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Product datasheet for MR223683

Atp1b3 (NM_007502) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1b3 (NM_007502) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp1b3
Synonyms:	AA409958; AI664000; AW212096
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR223683 representing NM_007502 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACGAAGACTGAGAAGAAATCCTTCCACCAGAGCCTGGCCGAGTGGAAGCTGTTCATCTACAACCCGA GCAGCGGAGAGTTTCTGGGGCGCACCTCCAAGAGCTGGGGTCTGATCTTGCTCTTCTACCTAGTTTTTTA TGGGTTCTTGGCTGCACTCTTCACATTCACAATGTGGGCCATGCTCCAGACTCTGAATGATGAAGTTCCG AAATATCGAGACCAGATTCCTAGTCCAGGACTTATGGTTTTTCCCAAACCGCAGACTGCCTTGGAATATA CATTCAGCATGTCTGAGCCACAGACTTACAAAAAGTTGGTTGAAGACCTGGAGAGTTTCCTAAAGCCATA TTCTGTGGAAGAACAGAAGAACCTCACAAGTTGTCCTGATGGAGCGCCTTTTATTCAGCATGGTCCTGAC TATAGGGCATGTCAGTTTCCAGTCTCCTTGCTTGAAGAATGTAGTGGTGTGACTGATGCTAATTTTGGCT ATTCCAAAGGACAGCCTTGCATCCTTGTGAAAATGAACAGAATAATCGATTTAATCCCAGACGGATATCC ACAAATATCGTGTTTGCCAAAGGAAGAAAACGCAACTATAGCAACTTATCCTGAATTTGGAGTTTTAGAC TTAAAGTATTTTCCATATTATGGGAAAAAACGGCATGTTGGATATCGACAGCCCCTAGTTGCCGTACAGG TCAAATTTGACTCTGGTCTTAACAAGAAAGAAGTAACAGTTGAGTGCCATATTGCTGGAACCAGGAACCT AAAAAACAAGAATGAGCGTGACAAGTTCTTGGGACGTGTTTCGTTCAAAGTCACAGCACGAGCC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

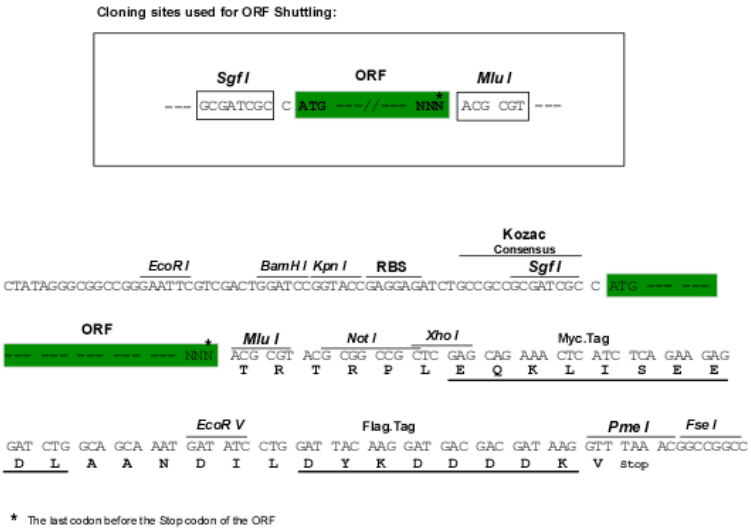
>MR223683 representing NM_007502
Red=Cloning site Green=Tags(s)

MTKTEKKSFHQSLAEWKLFIYNPSSGEFLGRTSKSWGLILLFYLVFYGFLAALFTFTMWAMLQTLNDEVP
KYRDQIPSPGLMVFPKPQTALEYTFSMSEPQTYKKLVEDLESFLKPYSVEEQKNLTSCPDGAPFIQHGPD
YRACQFPVSLLEECSGVTDANFGYSKGQPCILVKMNRIIDLIPDGYPQISCLPKEENATIATYPEFGVLD
LKYFPYYGKKRHVGYRQPLVAVQVKFDSGLNKKEVTVECHIAGTRNLKNKNERDKFLGRVSFKVTARA

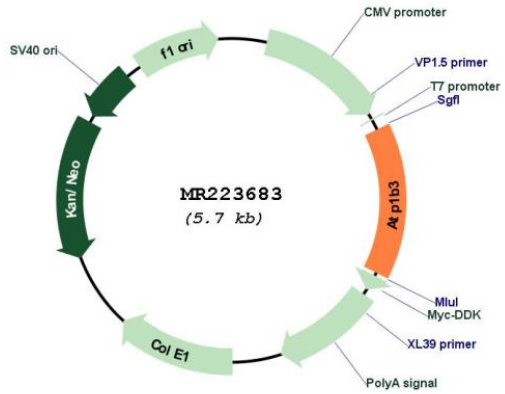
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007502

ORF Size: 834 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_007502.5
RefSeq Size:	1833 bp
RefSeq ORF:	837 bp
Locus ID:	11933
UniProt ID:	P97370
Cytogenetics:	9 50.31 cM
MW:	32.2 kDa
Gene Summary:	This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-3 subunit is not known.[UniProtKB/Swiss-Prot Function]