

Product datasheet for RC223635

ATP7B (NM_000053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP7B (NM_000053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP7B
Synonyms:	PWD; WC1; WD; WND
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223635 representing NM_000053 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC223635 representing NM_000053
 Red=Cloning site Green=Tags(s)

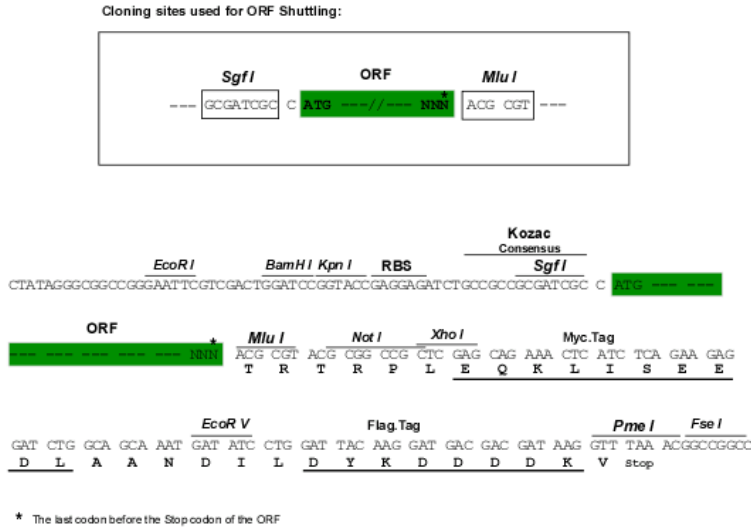
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Chromatograms: https://cdn.origene.com/chromatograms/mk6280_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

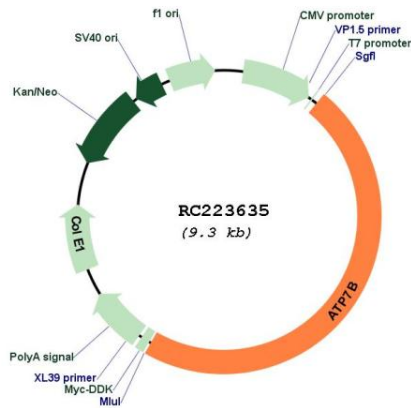


ACCN: NM_000053

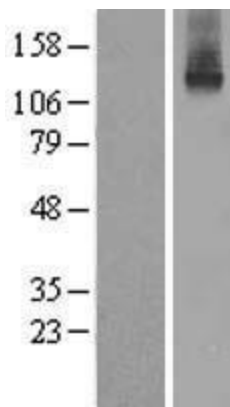
ORF Size: 4395 bp

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:	<ol style="list-style-type: none">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_000053.4
RefSeq Size:	6644 bp
RefSeq ORF:	4398 bp
Locus ID:	540
UniProt ID:	P35670
Cytogenetics:	13q14.3
Domains:	E1-E2_ATPase, Hydrolase, HMA
Protein Families:	Druggable Genome, Transmembrane
MW:	157.1 kDa
Gene Summary:	This gene is a member of the P-type cation transport ATPase family and encodes a protein with several membrane-spanning domains, an ATPase consensus sequence, a hinge domain, a phosphorylation site, and at least 2 putative copper-binding sites. This protein is a monomer, and functions as a copper-transporting ATPase which exports copper out of the cells, such as the efflux of hepatic copper into the bile. Alternate transcriptional splice variants, encoding different isoforms with distinct cellular localizations, have been characterized. Mutations in this gene have been associated with Wilson disease which is characterized by copper accumulation. [provided by RefSeq, Dec 2019]

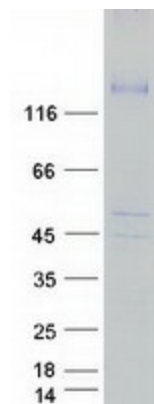
Product images:



Circular map for RC223635



Western blot validation of overexpression lysate (Cat# [LY424958]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223635 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP7B protein (Cat# [TP323635]). The protein was produced from HEK293T cells transfected with ATP7B cDNA clone (Cat# RC223635) using MegaTran 2.0 (Cat# [TT210002]).