

## Product datasheet for MR225904

### Atp7a (NM\_001109757) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp7a (NM_001109757) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp7a
Synonyms:	MNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225904 representing NM_001109757 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGAGCCAAGTGTGGATGCAAATTC AATTACTATCACTGTTGAGGGAATGACATGTATTTCTGTGTCC  
GGACCATTGAACAGCAGATTGGGAAAAGTGAATGGTGTCCATCACATTAAGTTTCACTAGAAGAAAAGAG  
TGCAACCATTATTTATGACCCTAACTTCAGACTCCAAAGACCCTCAAGAAGCTATCGATGACATGGGC  
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CTCCACTGACTCTGCCTGGGACCATATCCAAAGTACATTGCTCAAGACCAAGGGTGTGACTGGTGTAA  
GATTTCCCTCAGCAAAGAAGTGCAGTAGTCACCATAATTCATCTGTGGTGAGTGCCAGTCAGATTGTG  
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GTTGAAAGTACCGCCAGCTCTCCCTCCAGCTCATCTCTCAGAAGATGCCTTTGAACATAGTTAGCCAGC  
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TGTGCTTCTTGTGTAGCAAACATTGAACGCAATTTAAGACGAGAAGAAGGAATATATTCTGTACTTGTTG  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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Protein Sequence: >MR225904 representing NM\_001109757  
 Red=Cloning site Green=Tags(s)

MEPSVDANSITITVEGMCISCVRTIEQQIGKVNQVHHIKVSLEEKSAIIYDPKLTQPKTLQEAIDDMG  
 FDALLHNANPLPVL TNTVFL TVTAPL TLPWDHIQSTLLKTKGVTGVKISPQORSVVVTIIPSVVSASQIV  
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 ATIVFQPHLITAEI IKQIEAVGFPAFIKKQPKY LKLG AIDVERLKNTPVKSSEGSQQKSPSYSDSTTM  
 FTIEGMHCKSCVSNIESALSTLQYVSSIVVLENRS AIVKYNASLVTP EMLRKAIEAISPQYRVSIASE  
 VESTASSPSSSLQK MPLNIVSQPLTQEAVININGMTCNSCVQSIEGVI SKKPGVKSIHVSLANSTG TIE  
 FDPLLTSPETLREAIEDMGFDAALPADMKEPLV VVIAQPSLETPLLPSSNELENVMTSVQNKCYIQVSGMT  
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 NHLDHKREIKQWRGSFLVSLFFCIPVMGLMVYMMVMDHHLATLHNNQNSNEEMINMHSAMFLERQILPG  
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 TFFDTPPMLFVFIALGRWLEHI AKGKTSEALAKLISLQATEATIVTLNSENLLLSEEQVDVELVQRGDII  
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 LVEEAQTSKAPIQQFADKLSGYFVPFIVLVSIVTLLVWIIIGFQNF EIVETYFPGYNRSISRTETIIRFA  
 FQASITVLCIACPCSLGLATPTAVMVGTVGAQNGILIKGGEPL EMAHKV VVVVDKGTGTIHTGTPVNVQ  
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 VDESMIEHERRGRTAVLVTIDDEL CGLIAIADTVKPEAELAVHILKSMGLEVVLMTGDNSKTARSIASQV  
 GITKVFAEVLPSHKVAKVKQLQEEGKRVAMVGDGINDSPALAMANV G IAGTGTDAIEAADVVLIRNDL  
 LDVVASIDL SRKTVKRIRINVFAL IYNLVGIPIAAGVFLPIGLVLQPWMSG AAMAASSVSVLSSLFLK  
 LYRKPTYDNYELHPRSHTGQRSPSEISVHV GIDDTSRNSPRLGLLDRI VNYSRASINLLSDKRSLNSV  
 TSEPKHSLLVGDFREDDDTTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9011\\_d06.zip](https://cdn.origene.com/chromatograms/mm9011_d06.zip)

Restriction Sites: SgfI-MluI

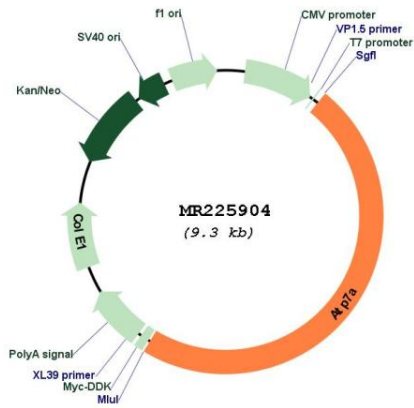
Cloning Scheme:



ACCN: NM\_001109757

<b>ORF Size:</b>	4476 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001109757.2</a> , <a href="#">NP_001103227.1</a>
<b>RefSeq Size:</b>	8146 bp
<b>RefSeq ORF:</b>	4479 bp
<b>Locus ID:</b>	11977
<b>Cytogenetics:</b>	X 47.36 cM
<b>MW:</b>	162.5 kDa
<b>Gene Summary:</b>	May supply copper to copper-requiring proteins within the secretory pathway, when localized in the trans-Golgi network. Under conditions of elevated extracellular copper, it relocalized to the plasma membrane where it functions in the efflux of copper from cells (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225904