

Product datasheet for MR216408

Atp13a1 (NM_133224) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp13a1 (NM_133224) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp13a1
Synonyms:	Atp13a; catp; Cgi152
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216408 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGTGGGCAACGCGTTCCTTGCAGGCGCCGGCTGGCGGGGCCGGGACAACGGGTCTCCTC
AGCCTGGGTGCGGATTGCGGCCGGGCTAGCTGCCGGGCCAGCACTCATAGCGAACGGCGACGAAGTGGT
GGCCGCGTGTGGCCGTACCGGCGGCTGGCGCTTCTGCGGCGCTCACCGTGTGCCGTTTGCCGGGCTG
CTGTACCCAGCCTGGCTGGGCGCCGCCAGCGGTTGCTGGGGATGGGCGAGCAGCTGGACCCAGATAC
CCGAGGCCGCGTGTGCGGCTCGCCACCATCTGCCTCGCGCAGCACTCACTGTCTGTGGGGCATTG
GTCTGTGCAGCGCACTGCGCGCTCACCTGCACCCCGGAGTATGATCCCAACAAAGTAACCTTTGTGAAG
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TCCGGTGGCCTTCCCAGTGGGGAATGCCTTCTTACTATCAAAGCAACAGAGGCTTCCAGGAAGACTCA
GAGATCCGAGCTGCAGAGAAGAAGTTTGAAGCAACAAGGCTGAGATGGTAGTGCCCGACTTCTCTGAGC
TTTTCAAGGAGAGAGCCACAGCCCTTTCTTCTGTTTTCAGGTATTCTGCGTTGGGCTCTGGTGCCTGGA
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CAGATGAGGAACATGTCAGAGATCCGAAAGATGGGCAACAAGCCCATATGATACAGGCTACCCGAGCC
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GGGGAATCTGTGCCACAAATGAAGGAGCCATTGAAGACCTGAGCCAGACCGTGTCTAGACCTGCAGG
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CCCATTGAACTGTCTCTGGCTGTCAACACCTCCCTCATCGCCTTGGCCAAGCTCTACATGTACTGCACAG
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ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216408 protein sequence
 Red=Cloning site Green=Tags(s)

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MAVVGNAVPCGARPGGARDNGSPQPGSRLRPGLAAGPALIANGDELVAAVWPYRRLALLRRLTVLPFAGL
LYPAWLGAASGCWGWSSWTQIPEAALLALATICLAHALTVLSGHWSVHAHCALTCTPEYDPNKVTFVK
VVPPTNNGSTELVALHRDKGEDGLEVLSEFFQKIKYSYDALEKKQFLPVAFVPGNAFSYYQSNRGFQEDS
EIRAAEKKFGSNKAEMVVPDFSELFKERATAPFFVVFQVFCVGLWCLDEYWYYSVFTLSMLVAFEASLVQQ
QMRNMSEIRKMGNKPHMIQVYRSRKWRPVASDDIVPGDIVSIGRSPQENLVPCDVLLLRGCIVDEAMLT
GESVPMKEPIEDLSPDRVLDLQADARLHVIFGGTKVVQHIPPQKATSGLKPDVNGCVAFVLRGTGNTSQ
GRLLRRTILFGVKRVTANNLETIFILFLLVFAIAAAAYVVEGTDKPSRNRYKLFLECTLILTSVPPPEL
PIELSLAVNTSLIALAKLYMYCTEPRIFPAGKVEVCCFDKTGTLTSDSLVVRGVAGLRDGKEVTPVSSI
PIETHRALASCHSLMQLDDGTLVGDPLEKAMLTAVDWTLTKDEKVFPRSIKTQGLKIHQRFFHASALKRM
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IKREALCSLKFVGFIVVSCPLKADSKAVIREIQNASHRVVMITGDNPLTACHVAQELHFIDKAHTLILH
PPSEKGPCEWRSIDSSIVLPLTLGSPKALALEHALCLTGDGLAHLQAVDPQQLCLLIPHVQVFAVAPK
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KQKSALLSPEEPPASHRDRLSQVLRDLEESTPIVKLGDASIAAPFTSKLSSIQCICHVIKQGRCTLVTT
LQMFKILALNALILAYSQSVLYLEGVKFSDFQATLQGLLAGCFLFISRSKPLKTLRERPLPNIFNLTY
ILTVMLQFSVHFLSLVYLYREAQARSPEKQEQFVDLYKEFEPVSNSTVYIMAMQMATAFVINYKPPF
MESLPENKPLVWVSLAVSLLAIIGLLLGSSPDFNSQFGLVDIPVEFKLVIGQVLAALDFCLALLADRVLQFF
LGTPKLRVPS
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



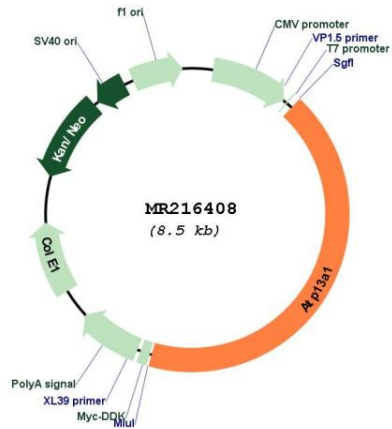
* The last codon before the Stop codon of the ORF

ACCN: NM_133224

ORF Size: 3603 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_133224.1 , NM_133224.2 , NP_573487.2
RefSeq Size:	3915 bp
RefSeq ORF:	3603 bp
Locus ID:	170759
UniProt ID:	Q9EPE9
Cytogenetics:	8 B3.3
MW:	132.4 kDa
Gene Summary:	Mediates manganese transport into the endoplasmic reticulum. The ATPase activity is required for cellular manganese homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216408