

## Product datasheet for MR216438

### Atp13a3 (NM\_001128094) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp13a3 (NM\_001128094) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Atp13a3  
**Synonyms:** AU022875; Gm541; Gm542; Gm1745  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216438 representing NM\_001128094  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGACAAAGAAGAAAGGAAGACTATCAACAAGGGTCAAGAAGATGAAATGGAGATACATGGCTATAACT  
TATGCCGCTGGAAGCTTGCCATGGTTTTGTAGGAGTGATTTGTACTGGTGGTTTTCTCCTCCTCCTCCT  
CTACTGGCTGCCGAGTGCCGAGTGAAAGCCACATGTGTTAGAGCTGCAGTTAAAGACTGTGAAGTGGTG  
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AACCAATTTGAATGCAAAATGTTTAGTTAATGAGTTTTCTAATGGCCATGCTGTTTCATCTGACTGAAGA  
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GTGCATCACTTTATGAAAAGCATAGTGCAGGACTGACACAGGGGATGCATGCCTACAGAAAGTTGATTTA  
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AAGCGGCACACTTTGTTTTGTGGGACGACTGTTATTCAGACCCGTTTCTACACTGGAGAACTTGTGAAAG  
CCATAGTAGTTAGAACAGGATTTAGTACTTCAAAGGACAGCTTGTTCGTTCTATACTGTATCCCAAGCC  
AACTGACTTTAACTCTATAGAGATGCCTACTTGTTCGCTGTGCTTGTGGTGGTGGCTGGAATTGGA  
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ATATCATTACAATTACTGTGCCACCTGCCTTCTCCTGCTGCAATGACTGCTGGGATTGTGTATGCTCAGAG  
AAGACTGAAAAAAGTTGGGATTTCTGTATTAGTCCCCAGAGGATAAACATCTGTGGACAGCTGAACCTT  
GTTTGCTTTGACAAGACTGGAACCTTACCGAAGATGGTTTAGATCTGTGGGGAATTCAGCGAGTGGAAA



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ATACCCGATTTCTTTACCAGAAGACAATGTTTGCAGTGAGATGTTGGTAAAATCTCAATTTGTTGCTTG  
TATGGCTACTTGTCACTCACTTACAAAAATCGAAGGTGTACTTTCTGGTGACCCACTTGATTTGAAAATG  
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TGGAGGCATTGCAGAACGTAGACTACTTTGTTGGGATGTGCGGTGATGGTGCAAATGATTGTGGTGCCTT  
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GTTTCCAGTACCTCACAGTGGCGGTTGCCTTTTCAAAGGAAAACCATTAGGCAGCCTTGTACAAGAA  
TTATTTTTTTGTTATATCTGTGATTATTTTGTATGTTTTTCATATTATTATCATGTTGCATCCAGTTGCC  
TCTGTTGACCAGGTTCTTGAGATTATGTGTGTACCATACCAGTGGCGCATATATGCTTATCATTGTTT  
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GGCCTGAGCTGTAGAAAGAAAACCTCAAAGCAAAGTACATGTACTTAGCACAGGAGCTCCGCTTTGAT  
CCTGAGTGGCCGCTAACCTCAGACAACGACGGAAGCCAAGCTGTAGTAAAGGAGAATGGATCATGTC  
AGATTATCACCATAGCA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216438 representing NM\_001128094  
 Red=Cloning site Green=Tags(s)

MDKEERKTINKGQEDEMEIHGYNLCRWKLAMVFGVICTGGFLLLLLWLPPEWRVKATCVRAAVKDCEV  
 LLRTTDEFVWFCAKIHFLPVENQPNLNAKCLVNEVSNGHAVHLTEENRCEMNKYSQSQQMRYFTHHS  
 IRYFWNDAIHNFDFLKGLEDGVSASLYEKHSAGLTQGMHAYRKLIVGVNEIAVKVPSVFKLLIKEVLNP  
 FYIFQLFSVILWSVDEYYYYALIVIMSVVSIISLYSIRKQYVMLHDMVATHSTVRVSVCRENEEIEEI  
 FSTDLPVGDVMIIPLNQVMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKMGEEQYSPETH  
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 ISRDAIENMDFMGLIIMQNKLQETPAVLEDLHKANIRTMVTGDNMLTAVSVARDCGMILPQDKVIAA  
 EALPPKDGKVAKINWHYDLSLQCSSESAIDSEAPIKLAHDSLEDLEVTRYHFAMNGKSFVILEHFQD  
 LVPKMLHGTVFARMAPDQKTQLVEALQNVDFVGMCGDGANDCGALKRAHGGISLSELEASVASPFTSK  
 TPSISCVPNLIREGRAALMTSFCVFKFALYSIIQYFSVTLTLLYSILSNLGDQFQFLIDLAILVVVFTMS  
 LNPAAKELVAQRPPSGLISGALLFVLSQIVISVGFQSLGFFVWKQYKVCDPNSDVCNTRSACWNSSH  
 YNGTELDCKIQNYENTTVFFISSFQYLVAVAFSKGKPFQPCYKNYFFVISVILVYVILFIMLHPVA  
 SVDQVLEIMCVPYQWRIYMLIIVLINAFAVSITVEESVDRWGKCLSWALSCRKTPKAKYMYLAQELRFD  
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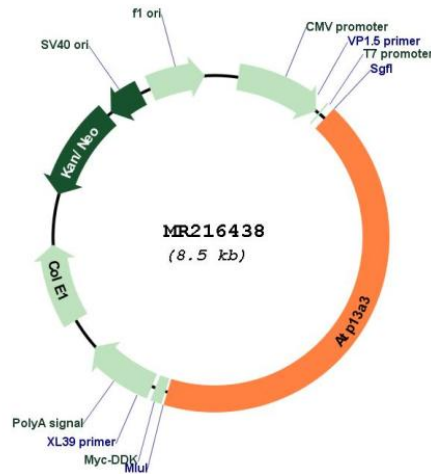
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001128094

**ORF Size:** 3657 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:** [NM\\_001128094.1](#), [NP\\_001121566.1](#)

**RefSeq Size:** 7220 bp

**RefSeq ORF:** 3660 bp

**Locus ID:** 224088

**UniProt ID:** [Q5XF89](#)

**Cytogenetics:** 16 B2

**MW:** 137.9 kDa

**Gene Summary:** ATP-driven pump involved in endocytosis-dependent polyamine transport. Uses ATP as an energy source to transfer polyamine precursor putrescine from the endosomal compartment to the cytosol.[UniProtKB/Swiss-Prot Function]