

Product datasheet for RC229417

ATP13A1 (NM_020410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP13A1 (NM_020410) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP13A1
Synonyms:	ATP13A; CGI-152
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229417 representing NM_020410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

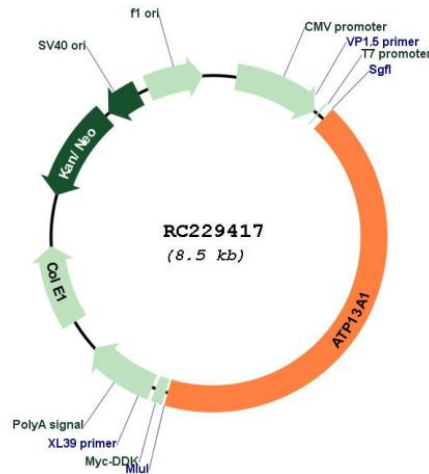
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TGCAGATCCCCGAAGCTGCGCTGCTCGTCTTGCACCATCTGCCTCGCGCACGGCTCACTGTCCTCTC
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ACTGCACAGAGCCCTCCGGATCCCCTTTGCTGGCAAGGTCGAGGTGTGCTGCTTTGACAAGACGGGGAC
GTTGACCAGTGACAGCCTGGTGGTGCGCCGTGGCCGGGCTGAGAGACGGGAAGGAGGTGACCCAGTG
TCCAGCATCCCTGTAGAAACACACCGGGCCCTGGCCTCGTGCCACTCGCTCATGCAGCTGGACGACGGCA
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CCTGGTCAACAGCACCGTCTACATCATGGCCATGGCCATGCAGATGGCCACCTTCGCCATCAATTACAAA
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CTGCAGTTCCTTCTGGGACCCCGAAGCTGAAAGTGCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_020410

ORF Size: 3612 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_020410.3](#)

RefSeq ORF: 3615 bp

Locus ID: 57130

UniProt ID: [Q9HD20](#)

Cytogenetics: 19p13.11

Domains: E1-E2_ATPase, Hydrolase

Protein Families: Transmembrane

MW: 132.8 kDa

Gene Summary: Mediates manganese transport into the endoplasmic reticulum. The ATPase activity is required for cellular manganese homeostasis.[UniProtKB/Swiss-Prot Function]