

## Product datasheet for RC227725

### ATP1B4 (NM\_001142447) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP1B4 (NM_001142447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP1B4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227725 representing NM_001142447 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGAGAAGGCAACTCCGGTCCAGAAGGGCTCCATCCTTTCCTTACAGTTATCGCTACAGACTCGATGATC  
CGGATGAAGCGAACCAGAACTACTTAGCAGATGAAGAGGAGGAAGCAGAAGAAGAGGCTCCGGTGACGGT  
GGTGCCCAAAATCGGAGGAGGAGGAAGAAGAGGAGGAGAAAAGAAGAGGAGGAAGAGGAGGAAAAGGAGGAG  
GAAGAGGGTCAAGGTCAAGCAACAGGCAATGCCTGGTGGCAGAAATTCAGATCATGAGTGAATACCTGT  
GGGATCCAGAGAGAAGGATGTTTCTGGCCGAACAGGTCAGAGTTGGAGCCTGATCTTACTCATTACTT  
CTTCTTCTATGCCTCCTTGGCTGCTGTGATCACCTCTGCATGTACACACTATTTCTGACCATCAGTCCC  
TATATACCAACCTTCACGGAGCGGGTAAAGCCTCCTGGAGTTATGATCAGACCCTTCGCCATAGCCTTA  
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GGGTATAATGACAGTCTTCAAGAGGAAATGAATGTAGATTGTCCCCGGGGCAGTACTTCATCCAAGAT  
GGCAATGAGGATGAGGACAAGAAGGCCTGCCAATTTAAGCGCTCCTTCTAAAGAACTGCTCTGGTCTGG  
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TCGTCTGAGCTTGGAGATCCTGTGAAGGTTTCTGCAAAGTTTCAGAGAGGTGATGAAAATGACATCCGA  
TCCATCAGTTACTACCCAGAGTCGGCTTCTTTGACCTCCGCTACTACCCTTACTACGGCAAAGTACTC  
AGTTAACTACACATCCCCCTTGGTGGCAATGCACTTTACAGACGTGGTGAAGAACAAGCAGTGCCTGT  
GCAGTGCCAAGTGAAGGGCAAAGCGTCATAAATGATGTCATCAATGATCGTTTTGTGGGAGGGTAATC  
TTTACCCTGAACATAGAAACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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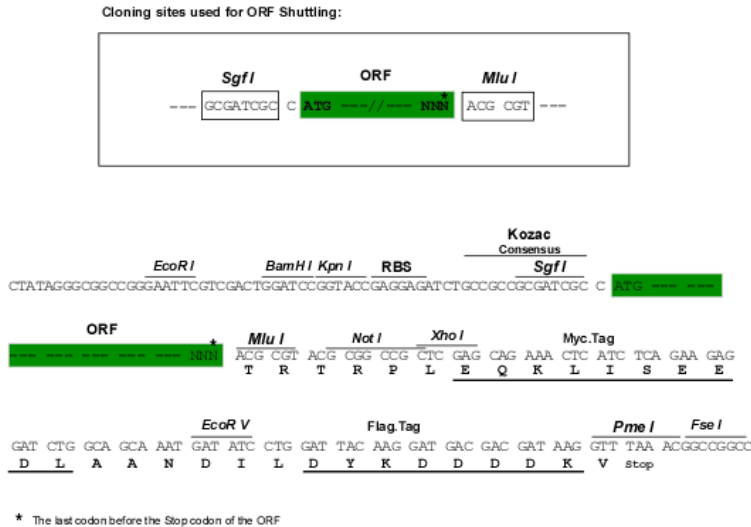
**Protein Sequence:** >RC227725 representing NM\_001142447  
Red=Cloning site Green=Tags(s)

MRRQLRSRRAPSPFPYSYRYRLDDPDEANQNYLADEEEEEEEEEARVTVVPKSEEEEEEEEEEEEEEEEEEE  
 EEGQGQPTGNAWWQKLQIMSEYLWDPERRMFLARTGQSWSLILLIYFFFYASLAAVITLCMYTLFLTISP  
 YIPTFTERVKPPGVMIRPFAHSLNFNFNVSEPDWQHVIISLNGFLQGYNSLQEEMNVDPCPPGQYFIQD  
 GNEDEDKKACQFKRSFLKNCSGLEDPTFGYSTGQPCILLKMNRIVGFPELGDVPKVSCKVQRGDENDIR  
 SISYYPEASFDLRYYPYKGLTHVNYTSPLVAMHFTDVVKNQAVPVQCQLKGGKVINDRVGRVI  
 FTLNIET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001142447

**ORF Size:** 1071 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\\_001142447.3](#)

**RefSeq Size:** 4773 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 23439

**UniProt ID:** [Q9UN42](#)

**Cytogenetics:** Xq24

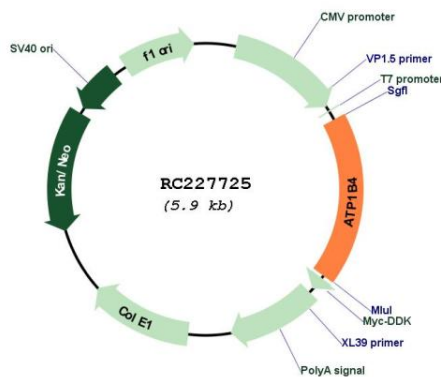
**Protein Families:** Transmembrane

**Protein Pathways:** Cardiac muscle contraction

**MW:** 41.6 kDa

**Gene Summary:** This gene has been found in all vertebrate genomes sequenced to date. However, this gene has undergone a change in function in placental mammals compared to other species. Specifically, in fish, avian, and amphibian species, this gene encodes plasma membrane-bound beta-subunits of Na,K-ATPase. In placental mammals, the encoded protein interacts with the nuclear transcriptional coregulator SKIP and may be involved in the regulation of TGF-beta signaling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

## Product images:



Circular map for RC227725