

Product datasheet for **RG224408**

ATP1B4 (NM_012069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP1B4 (NM_012069) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP1B4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224408 representing NM_012069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAGGCAACTCCGGTCCAGAAGGGCTCCATCCTTTCCTTACAGTTATCGCTACAGACTCGATGATC
CGGATGAAGCGAACCAGAACTACTTAGCAGATGAAGAGGAGGAAGCAGAAGAAGAGGCTCCGGTGACGGT
GGTGCCCAATCGGAGGAGGAGGAAGAAGAGGAGGAGAAAAGAAGAGGAGGAAGAGGAGGAAAAGGAGGAG
GAAGAGGGTCAAGGTCAAGCAACAGGCAATGCCTGGTGGCAGAAATGCAGATCATGAGTGAATACCTGT
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CTCCTTGCTGCTGTGATCACCTCTGCATGTACACACTATTTCTGACCATCAGTCCCTATATACCAACC
TTCACGGAGCGGGTAAAGCCTCCTGGAGTTATGATCAGACCCCTTCGCCCATAGCCTTAACCTCAACTTCA
ACGTTTCTGAACCCGACACTTGGCAGCATTATGTGATTAGCCTAAATGGCTTTCTCCAGGTTATAATGA
CAGTCTTCAAGAGGAAATGAATGTAGATTGTCCCCGGGCAGTACTTCATCCAAGATGGCAATGAGGAT
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TTGGATACTCTACTGGACAGCCCTGCATCCTTCTAAAGATGAACCGATTGTAGGCTTTCGTCCTGAGCT
TGGAGATCCTGTGAAGGTTTCTGCAAAGTTTCAAGAGGTTGATGAAAATGACATCCGATCCATCAGTTAC
TACCCAGAGTCGGCTTCTTTGACCTCCGCTACTACCTTACTACGGCAAAGTACTCACGTTAACTACA
CATCCCCCTTGGTGGCAATGCACCTTACAGACGTGGTGAAGAACCAAGCAGTGCCTGTGCAGTGCCAACT
GAAGGGCAAAGCGTCATAAATGATGTCATCAATGATCGTTTTGTGGCAGGGTAATCTTTACCCCTGAAC
ATAGAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224408 representing NM_012069
 Red=Cloning site Green=Tags(s)

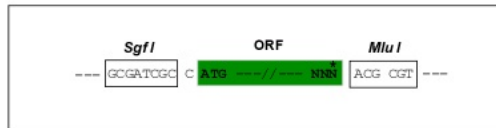
MRRQLRSRRAPSPFPYSYRYRLDDPDEANQNYLADEEEEEEEEEARVTVVPKSEEEEEEEEEEEEEEEEEEE
 EEGQGQPTGNAWQKLQIMSEYLWDPERRMFLARTGLILLIYFFFYASLAAVITLCMYTLFLTISPYIPT
 FTERVKPPGVMIRPFAHSLNFNFNVSEPDTWQHVVYISLNGFLQGYNDLQEMNVDPCPPGQYFIQDGNED
 EDKKACQFKRSFLKNCSGLEDPTFGYSTGQPCILLKMNRIVGFPELGDVPKVSCKVQRGDENDIRISISY
 YPESASFDLRYPPYGGKLTHVNYTSPLVAMHFTDVKVNAQVPVQCQLKGGVINDRVINDRFVGRVIFTLN
 IET

TRTRPLE - GFP Tag - V

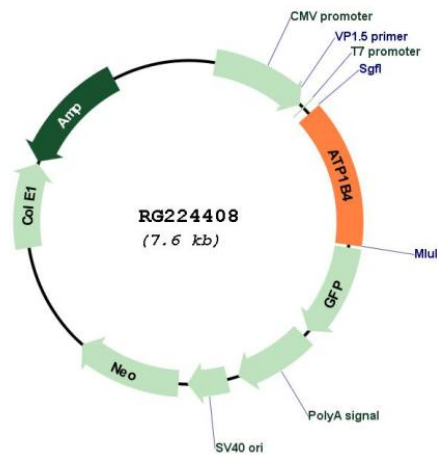
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_012069

ORF Size:	1059 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_012069.5
RefSeq Size:	3857 bp
RefSeq ORF:	1062 bp
Locus ID:	23439
UniProt ID:	Q9UN42
Cytogenetics:	Xq24
Protein Families:	Transmembrane
Protein Pathways:	Cardiac muscle contraction
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]