

## Product datasheet for **RG236579**

### **ATP1B2 (NM\_001303263) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP1B2 (NM_001303263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP1B2
Synonyms:	AMOG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236579 representing NM_001303263. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATTCGCCCAAGACTGAGAACCTTGATGTCATTGTCAATGTCAGTGACACTGAAAGCTGGGACCAG
CATGTTTCAGAAGCTCAACAAGTCTTGGAGCCTTACAACGACTCTATCCAAGCCAAAAGAATGATGTC
TGCCGCCCTGGACGCTATTACGAACAGCCAGATAATGGAGTCCTCAACTACCCCAAACGTGCCTGCCAA
TTCAACCCGGACCCAGCTGGGCAACTGCTCCGGCATTGGGACTCCACCCACTATGGTTACAGCACTGGG
CAGCCCTGTGCTTCATCAAGATGAACCGGTCATCAACTTCTATGCAGGAGCAAACCAGAGCATGAAT
GTTACCTGTGCTGGGAAGCGAGATGAAGATGCTGAGAATCTCGGCAACTTCGTCATGTTCCCGCCAAC
GGCAACATCGACCTCATGTACTTCCCCTACTATGGCAAAAAGTTCCACGTGAACTACACACAGCCCTG
GTGGCTGTGAAGTTCCTGAATGTGACCCCAACGTGGAGGTGAATGTAGAATGTCGCATCAACGCCGCC
AACATCGCCACAGACGATGAGCGAGACAAGTTCGCCGGCCGCGTGGCCTTCAAACCTCCGCATCAACAAA
ACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236579  
 Blue=ORF Red=Cloning site Green=Tag(s)

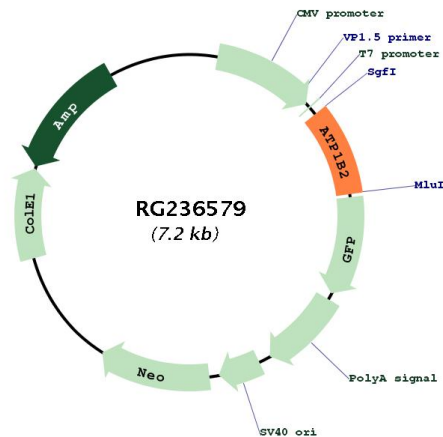
MIRPKTENLDVIVNVS DTESWDQH VQKLNKFL EPYNDSIQA QKNDVCRPGR YYEQPDNGV LNYPKRA CQ  
 FNRTQLGNCSGIGDSTHYGYSTGQPCVFIKMN RVINFYAGANQSMNVT CAGKRDEDAENLGNFVMFPAN  
 GNIDLMYFPYYGKKFHVNYTQPLVAVKFLNVT PNVEVNV ECRINAANIATDDERDKFAGRVAFKLRINK  
 T  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE D  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001303263

<b>ORF Size:</b>	624 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001303263.1</a> , <a href="#">NP_001290192.1</a>
<b>RefSeq Size:</b>	2601 bp
<b>RefSeq ORF:</b>	627 bp
<b>Locus ID:</b>	482
<b>UniProt ID:</b>	<a href="#">P14415</a>
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Cardiac muscle contraction
<b>MW:</b>	24.1 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the family of Na <sup>+</sup> /K <sup>+</sup> and H <sup>+</sup> /K <sup>+</sup> ATPases beta chain proteins, and to the subfamily of Na <sup>+</sup> /K <sup>+</sup> -ATPases. Na <sup>+</sup> /K <sup>+</sup> -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na <sup>+</sup> /K <sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]