

## Product datasheet for **RG223785**

### ATP11A (NM\_032189) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP11A (NM_032189) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP11A
Synonyms:	ATPIH; ATPIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223785 representing NM_032189 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTGCAGCCTCGTGCGGACGCTCGTGCACAGATACTGTGCAGGAGAAGAGAATTGGGTGGACAGCA  
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TGACAAGCGGACTTCCACTCTTCTTTGTCATTACTGTGACGGCTATCAAACAGGGTTATGAAGACTGGCT  
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CAGCCATAAAACGCATTACGCGGTCCAGGACACCAAAAGCTTCCACACAGAGGAGGATATCGGCGGACTT  
CACGCCACCATCGAGTGTGAGCAGCCCCAGCCGACCTTACAAGTTCGTGGTTCGCATCAACGTTTACA  
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GAATTCACCCCTTGCCTCTCTGCAGAGCCAGGCTACCAGAGCACCTGTCCCTCGGCCGCTGGTACA  
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CGGCGTTCCCATCACCCTGCACTCCATCCCAAGTACAGCTGCCCTAGGTCCCGTGTGGGAATGCTC  
GTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223785 representing NM\_032189  
 Red=Cloning site Green=Tags(s)

MDCSLVRTL VHRYCAGEENWVDSRTIYVGHREPPPGAEAYIPQRYPDNRI VSSKYTFWNFIPKNLFEQFR  
 RVANFYFLIIIFLVQLIIDTPTSPVTSGLPLFFVITVTAIKQGYEDWLRHKADNAMNQCPVHFIQHGKLV  
 KQSRKLRVGDIVMVKEDTFPCDLIFLSSNRGDGTCHVTTASLDGESSHKTHYAVQDTKGFHTEEDIGGL  
 HATIECEQPDPDYKFFVGRINVYSDLNDPVVRPLGSENLLLRGATLKNTEKIFGVAIYTGMEKMLNMQ  
 SKSQKRSAVEKSMNAFLIVYLCILISKALINTVLKYVWQSEPFREPWYNQKTESERQRNLFKAFD  
 AFMVLFNFIIPVSMYVTVEMQKFLGYSYFITWDEDMFDEETGEGPLVNTSDLNEELGQVEYIFTDKGT  
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 GVI GKEGRQAARNSDYAIPKFKHLKMLLVHGHFYIRISELVQYFFYKNCVCFIFPQFLYQFFCGFSQQT  
 LYDTAYLTLYNI SFTSLPILLYSLMEQHVGDVLRDPTLYRDAVKNALLRWRVFIYWTLLGLFDALVFF  
 FGAYFVFENTT VTSNGQIFGNWTFGLVFTVMVFTVTLKLALDTHYWTWINHFVIWGSLLFYVVSLLWG  
 GVIWPFNLNYQRMYYVFIQMLSSGPAWLAIVLLVTISLLPDVLRKVLQRQLWPTATERVQNGCAQPRDRS  
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 L

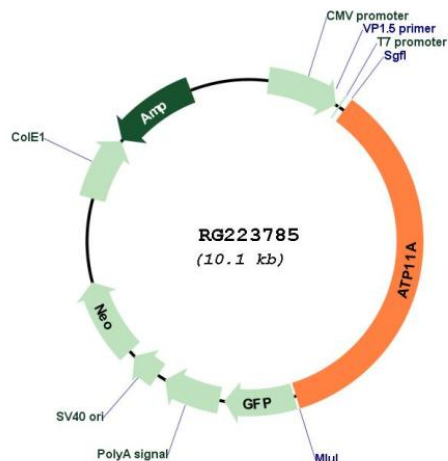
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_032189

**ORF Size:** 3573 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\\_032189.2](#), [NP\\_115565.2](#)

**RefSeq Size:** 8755 bp

**RefSeq ORF:** 3576 bp

**Locus ID:** 23250

**UniProt ID:** [P98196](#)

**Cytogenetics:** 13q34

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene is an integral membrane ATPase. The encoded protein is probably phosphorylated in its intermediate state and likely drives the transport of ions such as calcium across membranes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]