

Product datasheet for **RG214189**

ATP11C (NM_001010986) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP11C (NM_001010986) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP11C
Synonyms:	ATPIG; ATPIQ; HACXL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214189 representing NM_001010986 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGATGGTCCCATCTCTCCCTCCAGCCTCTGAGTGTGCTGGAGAAGAGAAACGAGTTGGCACACGCA
CAGTGTGTTGGCAATCATCCAGTTTCGGAACAGAAGCTTACATTGCACAAAGATTTGTGATAATAG
AATAGTCTCATCTAAGTATACACTTTGGAATTTCTCCAAAGAATCTGTTGAACAGTTTGAAGAATT
GCAATTTTTATTTCTCATAATCTTCCTGTACAGGTACAGTAGACACCACTAGCCAGTTACCA
GTGGACTTCCACTTTTCTTTGTTATAACTGTTACAGCCATCAAGCAGGGATATGAGGATTGGCTGAGACA
CAGAGCTGACAATGAAGTCAACAAAAGCACTGTTTACATTATTGAAAATGCAAAGCGAGTGAGAAAAGAA
AGTGAAAAAATCAAGGTTGGTGATGTAGTAGAAGTACAGGCAGATGAAACCTTTCCTGTGATCTTATTC
TTCTATCATCTTGCACTGATGGAACCTGTTATGTCACAGCCAGTCTTGATGGGGAATCCAATTG
CAAGACACATTATGCAGTACGTGATACCATGCACTGTGTACAGCAGAATCCATCGATACCTCCGAGCA
GCAATTGAATGTGAACAGCCTCAACCTGACCTCTACAAATTTGTTGGCGAATCAATATCTACAGTAATA
GTCTTGAGGCTGTTGCCAGGTCTTTGGGACCTGAAAATCTCTGCTGAAAGGAGCTACGCTAAAAATAC
CGAGAAGATATATGGAGTTGCTGTTTACACTGGAATGGAACCAAAATGGCTTTGAACTACCAAGGGAAA
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TAACCAAAAGACTCAGAAAGAGCGAGAGACCTGAAGGTTTTAAAAATGTTCAACGACTTCTATCATTT
ATGTTTCTATTCACTTTATCATTCCTGTCTCCATGTACGTACAGTAGAAATGCAGAAATCTTGGGCT
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AGACCTTAATGAAGAAGTGGTCAGGTGGATTATGATTTACAGATAAGACTGGAACACTCACTGAAAAC
AGCATGGAATTCATTGAATGCTGCATAGATGGCCACAAATATAAGGTGTAACCTAAGAGGTTGATGGAT
TATCTCAAAGTATGGAACCTTAAACATATTTGACAAAGTAGATAAGAATCGAGAAGAGCTGTTTCTACG
TGCTTGTGTTTATGTCATACTGTAGAAATCAAAACAAACGATGCTGTTGATGGAGCTACAGAATCAGCT



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GAATTAACCTATATCTCCTCTTACCAGATGAAATAGCTTTGGTGAAAGGAGCTAAAAGGTACGGGTTCA
 CATTTTTAGGAAATCGAAATGGATATATGAGAGTAGAGAACCAAGAAAAGAAATAGAAGAATATGAACT
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 TTCTTCTAATATTTATCAGCCTGTTCCCTGAGATTCTTCTGATAGTATTAAGAATGTAAGAAGAAGAAG
 TGCCAGGAATCCGAATCTTGAATGCCTATGTTATTGCTCTACAAGCATACTGACAGTGGTTACAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214189 representing NM_001010986

Red=Cloning site Green=Tags(s)

MQMVPSLPPASECAGEEKRVGTRTVFVGNHPVSETEAYIAQRFCDNRIVSSKYTLWNFLPKNLFEQFRI
 ANFYFLIIFLVQVTDPTSPVTSGLPLFFVITVTAIKQGYEDWLRRHADNEVNKSTVYIENAKVRKE
 SEKIKVGDVVEVQADETFPCDLILLSCTTDGTCYVTTASLDGESNCKTHYAVRDTIALCTAESIDTLRA
 AIECEQPQPDLYKFVGRINIYSNSLEAVARSLGPENLLKGATLKNTEKIYGVAVYTMETKMALNYQK
 SQKRSVEKSINAFILVYLFILLTKAAVCTTLKYVWQSTPYNDEPWYNQKTQKERETLKVLMFTDFLSF
 MVLNFNFIIPVSMYVTVEMQKFLGSFFISWDKDFYDEEINEGALVNTSDLNEELGQVDYVFTDKTGTLTEN
 SMEFIECCIDGHKYKGVTEVDGLSQTGDLTYFDKVDKNREELFLRALCLCHTVEIKTNDVADGATESA
 ELTYISSPDEIALVKGAKRYGFTFLGNRNGYMRVENQRKEIEEYELLHTLNFDVRRRMSVIVKTQEGD
 ILLFCKGADS AVFPRVQNHIEITKVHVERNAMDGYRTLCAVKEIAPDDYERINRQLIEAKMALQDREE
 KMEKVFDIETNMNLIGATAVEDKLQDQAAETIEALHAAGLKVVWLTGDKMETAKSTCYACRLFQNTTEL
 LELTTKTIEESERKEDRLHELLIEYRKLLHEFPKSTRSFKKAWTEHQEYGLIIDGSTLSLILNSSQDSS
 SNNYKSIFLQICMKCTAVLCCRMAPLQKAQIVRMVKNLKGSPITLSIGDGANDVSMILESHVGIGIKGKE
 GRQAARNSDYSPKFKHLKLLLAHGHLYYVRIHLVQYFFYKNLCFILPQFLYQFFCGFSQQPLYDAAY
 LTMYNICFTSLPILAYSLLLEQHINIDTLTSDPRLYMKISGNAMLQLGPFLYWTFLAAFEFTVFFGTYFL
 FQTASLENGKVYGNWTFGTIVFTVLVFTVTLKLALDTRFWTWINHFVIWGSALFYVFFSFFWGIIWPF
 LKQQRMYFVFAQMLSSVSTWLAIIILLIFISLFPEILLIVLKNVRRRSARNPNLELPMLLSYKHTDSGYS

TRTRPLE – GFP Tag – V

Restriction Sites:

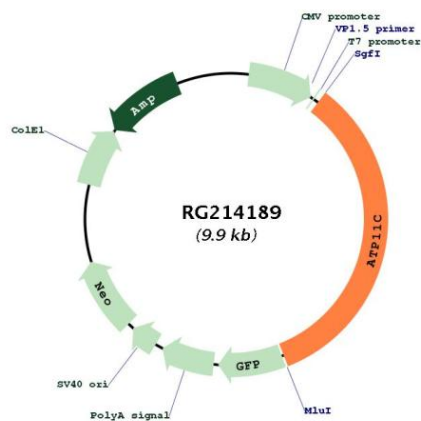
Sgfl-MluI

Cloning Scheme:


ACCN:	NM_001010986
ORF Size:	3357 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_001010986.2 , NP_001010986.1
RefSeq Size:	6023 bp
RefSeq ORF:	3360 bp
Locus ID:	286410
UniProt ID:	Q8NB49

Cytogenetics:	Xq27.1
Protein Families:	Transmembrane
Gene Summary:	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. In the cell membrane of erythrocytes, it is required to maintain phosphatidylserine (PS) in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for splenic macrophages (PubMed:26944472). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules (By similarity). Required for B cell differentiation past the pro-B cell stage (By similarity). Seems to mediate PS flipping in pro-B cells (By similarity). May be involved in the transport of cholestatic bile acids (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214189