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Product datasheet for SC111138

ATP6IP2 (ATP6AP2) (NM_005765) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6IP2 (ATP6AP2) (NM_005765) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6IP2
Synonyms:	APT6M8-9; ATP6IP2; ATP6M8-9; CDG2R; ELDF10; HT028; M8-9; MRXE; MRXSH; MSTP009; PRR; RENR; XMRE; XPDS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC111138 sequence for NM_005765 edited (data generated by NextGen Sequencing)

ATGGCTGTGTTTGTCGTGCTCCTGGCGTTGGTGGCGGGTGTTTTGGGGAACGAGTTTAGT
ATATTAAAATCACCAGGGTCTGTTGTTTTCCGAAATGGAAATTGGCCTATACCAGGAGAG
CGGATCCCAGACGTGGCTGCATTGTCCATGGGCTTCTCTGTGAAAGAAGACCTTTCTTGG
CCAGGACTCGCAGTGGGTAACCTGTTTCATCGTCCTCGGGCTACCGTCATGGTGATGGTG
AAGGGAGTGAACAAACTGGCTCTACCCCCAGGCAGTGTCATTTCGTACCCTTTGGAGAAT
GCAGTTCCTTTTAGTCTTGACAGTGTTGCAAATTCCATTCACTCCTTATTTTCTGAGGAA
ACTCCTGTTGTTTTGCAGTTGGCTCCCAGTGAGGAAAGAGTGTATATGGTAGGGAAGGCA
AACTCAGTGTTTGAAGACCTTTCAGTCACCTTGCGCCAGCTCCGTAATCGCCTGTTTCAA
GAAAACTCTGTTCTCAGTTCACTCCCCCTCAATTCTCTGAGTAGGAACAATGAAGTTGAC
CTGCTCTTTCTTTCTGAACTGCAAGTGCTACATGATATTTCAAGCTTGCTGTCTCGTCAT
AAGCATCTAGCCAAGGATCATTCTCCTGATTTATATTCACTGGAGCTGGCAGGTTTGGAT
GAAATTGGGAAGCGTTATGGGGAAGACTCTGAACAATTCAGAGATGCTTCTAAGATCCTT
GTTGACGCTCTGCAAAAGTTTGCAGATGACATGTACAGTCTTTATGGTGGGAATGCAGTG
GTAGAGTTAGTCACTGTCAAGTCATTTGACACCTCCCTCATTAGGAAGACAAGGACTATC
CTTGAGGCAAAACAAGCGAAGAACCCAGCAAGTCCCTATAACCTTGCATATAAGTATAAT
TTTGAATATTCCGTGGTTTTCAACATGGTACTTTGGATAATGATCGCCTTGGCCTTGGCT
GTGATTATCACCTCTTACAATATTTGGAACATGGATCCTGGATATGATAGCATCATTTAT
AGGATGACAAACCAGAAGATTCGAATGGATTGA

Clone variation with respect to NM_005765.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005765 unedited
GTATATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCGGCCCGTT
CCGTGTCGCCCCGCAGTGCTGCGGCCGCCGCGGCACCATGGCTGTGTTTGTCGTGCTCCT
GGCGTTGGTGGCGGGTGTTTTGGGGAACGAGTTTAGTATATTAAAATCACCAGGGTCTGT
TGTTTTCCGAAATGGAAATTGGCCTATACCAGGAGAGCGGATCCCAGACGTGGCTGCATT
GTCCATGGGCTTCTCTGTGAAAGAAGACCTTTCTTGGCCAGGACTCGCAGTGGGTAACCT
GTTTCATCGTCCTCGGGCTACCGTCATGGTGATGGTGAAGGGAGTGAACAAACTGGCTCT
ACCCCCAGGCAGTGTCATTTCGTACCCTTTGGAGAATGCAGTTCCTTTTAGTCTTGACAG
TGTTGCAAATTCCATTCACTCCTTATTTTCTGAGGAAACTCCTGTTGTTTTGCAGTTGGC
TCCCAGTGAGGAAAGAGTGTATATGGTAGGGAAGGCAAACTCAGTGTTTGAAGACCTTTC
AGTCACCTTGCGCCAGCTCCGTAATCGCCTGTTTCAAGAAAACTCTGTTCTCAGTTCACT
CCCCCTCAATTCTCTGAGTAGGAACAATGAAGTTGACCTGCTCTTTCTTTCTGAACTGCA
AGTGCTACATGATATTTCAAGCTTGCTGTCTCGTCATAAGCATCTNAGCCAAGATCATTC
TCCTGATTTATATTCACTGGAGCTGGCANGTTTGGATGAAATTGGGAAGCGTTATGGGGA
AGACTCTGAACCATTCAGAGATGCTTCTAAGATCCTTGTTGACGCTCTGCAAAGTTTGCA
GATGACATGTACAGTCCTTTATGGTGGGAATGCCATGGTAGAGTTATCACTGTCCAGTCA
TTTGACACTCCCTCATTAGGAGACAGGACATNCTTTGTAGCAACAACGAGGACCCGCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005765 unedited
TATGGACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTGGGAACATCAT
TAACTTTATTTGTCACTCTTGATAGACATTGGTCCACTCCAACATAAAAAGTAGAATTCA
CCCACTTCCACTTAATATTCTATAGAATGAAGTTGTACCACAAACCATAGTAACTTACAC
AGGGGGGAAAAGTTACTGAAATAAAAATGTTTTATATTCATGCCTCAAAATGTCCCTCAG
GGATTTTTGTGTGTATAATGAAAAGCATCTATATACTCCACAAGGCTAGTTTCTTCTTAG
ATCAATGTAGTATTTTTAGTATCCATATTAGCCCATGTAGGTCAACAAACTTGCAGAAGA
GGGTTAAAAAACAGCTGTCCTCTGTTACTCAGATACAGTTCCAAAACTAAGCGATTATAT
AAGCACATCCATATTTTAGGGCTACTCTAAGTTAAAAACCTTTTCTCTTGTTTCAGAGTT
ATTTACATCAAATTAAGACATTTACAAATTGTTCATAGTATACAATAGCCCAAATATGAT
TTTCACCTATGCTGTGTAAAGAAGTTAAGCATTCGTAAGTTTGTCTAATAAATTCAGTGC
ACTTTTTTCCATAACACGAGCTATTCTAAATGTTTTACATTTCTTTCAGTGCATATTTCC
AAATTCATTAAACAGAATGAAATCAATGTTATTAAATGGCTATATCATAATATTCAAGCA
TATTATGGAATCTATACCACAGTGGGATTCACGTCAATACTATAATTCACTCTAGAAAAC
ATCACAGGCACCACAAAATAAAGAACCAAATTTGATTTTTTTTTATNNAATGTAAGTATA
CTATCTACTTTTAAGCACACTANAAGATATATTTTAACANACAGCCAATTTCCAACCCCT
TTTCTAATNCTGCACAGGTACATTCATTCATTCGAATCTCTGGNTTGCATCCTATAATGA
TGCNTNATATCCAGNATCCATGTCCAAATATGTAGAGG

Restriction Sites: NotI-NotI

ACCN: NM_005765

Insert Size: 2100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_005765.2, NP_005756.2

RefSeq Size: 2044 bp

RefSeq ORF: 1053 bp

Locus ID: 10159

UniProt ID: O75787

Cytogenetics: Xp11.4

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a protein that is associated with adenosine triphosphatases (ATPases). Proton-translocating ATPases have fundamental roles in energy conservation, secondary active transport, acidification of intracellular compartments, and cellular pH homeostasis. There are three classes of ATPases- F, P, and V. The vacuolar (V-type) ATPases have a transmembrane proton-conducting sector and an extramembrane catalytic sector. The encoded protein has been found associated with the transmembrane sector of the V-type ATPases. [provided by RefSeq, Jul 2008]