# ATP6AP2 cDNA Clone – Atpase, H+ Transporting, Lysosomal Accessory Protein 2 (Human)

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | ATP6AP2, cDNA Clone |
| **Full Product Name** | ATP6AP2 cDNA Clone |
| **Product Gene Name** | ATP6AP2 cdna clone |
| **Sequence** | ATGGCTGTGT TTGTCGTGCT CCTGGCGTTG GTGGCGGGTG TTTTGGGGAA CGAGTTTAGT ATATTAAAAT CACCAGGGTC TGTTGTTTTC CGAAATGGAA ATTGGCCTAT ACCAGGAGAG CGGATCCCAG ACGTGGCTGC ATTGTCCATG GGCTTCTCTG TGAAAGAAGA CCTTTCTTGG CCAGGACTCG CAGTGGGTAA CCTGTTTCAT CGTCCTCGGG CTACCGTCAT GGTGATGGTG AAGGGAGTGA ACAAACTGGC TCTACCCCCA GGCAGTGTCA TTTCGTACCC TTTGGAGAAT GCAGTTCCTT TTAGTCTTGA CAGTGTTGCA AATTCCATTC ACTCCTTATT TTCTGAGGAA ACTCCTGTTG TTTTGCAGTT GGCTCCCAGT GAGGAAAGAG TGTATATGGT AGGGAAGGCA AACTCAGTGT TTGAAGACCT TTCAGTCACC TTGCGCCAGC TCCGTAATCG CCTGTTTCAA GAAAACTCTG TTCTCAGTTC ACTCCCCCTC AATTCTCTGA GTAGGAACAA TGAAGTTGAC CTGCTCTTTC TTTCTGAACT GCAAGTGCTA CATGATATTT CAAGCTTGCT GTCTCGTCAT AAGCATCTAG CCAAGGATCA TTCTCCTGAT TTATATTCAC TGGAGCTGGC AGGTTTGGAT GAAATTGGGA AGCGTTATGG GGAAGACTCT GAACAATTCA GAGATGCTTC TAAGATCCTT GTTGACGCTC TGCAAAAGTT TGCAGATGAC ATGTACAGTC TTTATGGTGG GAATGCAGTG GTAGAGTTAG TCACTGTCAA GTCATTTGAC ACCTCCCTCA TTAGGAAGAC AAGGACTATC CTTGAGGCAA AACAAGCGAA GAACCCAGCA AGTCCCTATA ACCTTGCATA TAAGTATAAT TTTGAATATT CCGTGGTTTT CAACATGGTA CTTTGGATAA TGATCGCCTT GGCCTTGGCT GTGATTATCA CCTCTTACAA TATTTGGAAC ATGGATCCTG GATATGATAG CATCATTTAT AGGATGACAA ACCAGAAGAT TCGAATGGAT TGA |
| **Molecular Weight** | 35,612 Da |
| **OMIM** | 300423 |
| **Vector** | pENTR223.1 or pUC |
| **Clone Sequence Report** | Provided with product shipment |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for ATP6AP2 cdna clone** | MBS1272504 is a cDNA clone targeting ATP6AP2. |
| **Other Notes** | Small volumes of ATP6AP2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP6AP2. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 54038755 |
| **NCBI GeneID** | 10159 |
| **NCBI Accession #** | BC084541 |
| **UniProt Secondary Accession #** | Q5QTQ7; Q6T7F5; Q8NBP3; Q8NG15; Q96FV6; Q96LB5; Q9H2P8; Q9UG89; B7Z9I3 |
| **UniProt Related Accession #** | O75787 |
| **NCBI Official Full Name** | Homo sapiens ATPase, H+ transporting, lysosomal accessory protein 2, mRNA |
| **NCBI Official Synonym Full Names** | ATPase H+ transporting accessory protein 2 |

| | |
|---|---|
| **NCBI Official Symbol** | ATP6AP2 |
| **NCBI Official Synonym Symbols** | PRR; M8-9; MRXE; RENR; XMRE; XPDS; HT028; MRXSH; ELDF10; ATP6IP2; MSTP009; APT6M8-9; ATP6M8-9 |
| **UniProt Protein Name** | Renin receptor |
| **UniProt Synonym Protein Names** | ATPase H(+)-transporting lysosomal accessory protein 2; ATPase H(+)-transporting lysosomal-interacting protein 2; ER-localized type I transmembrane adaptor; Embryonic liver differentiation factor 10; N14F; Renin/prorenin receptor; Vacuolar ATP synthase membrane sector-associated protein M8-9; ATP6M8-9; V-ATPase M8.9 subunit |
| **Protein Family** | Renin receptor |
| **UniProt Gene Name** | ATP6AP2 |
| **UniProt Synonym Gene Names** | ATP6IP2; CAPER; ELDF10; ATP6M8-9; V-ATPase M8.9 subunit |
| **UniProt Entry Name** | RENR_HUMAN |
| **NCBI Protein Information** | renin receptor |
| **NCBI Summary for ATP6AP2** | 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] |
| **UniProt Comments for ATP6AP2** | ATP6AP2: Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS). Defects in ATP6AP2 are a cause of mental retardation X- linked with epilepsy (MRXE). MRXE is a syndromic mental retardation. Patients manifest mild to moderate mental retardation associated with epilepsy, delays in motor milestones and speech acquisition in infancy.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: Xp11.4<br><br>Disease: Mental Retardation, X-linked, Syndromic, Hedera Type; Parkinsonism With Spasticity, X-linked |
| **Research Articles on ATP6AP2** | **1.** Study identifies a renin-angiotensin system-independent function for the (P)RR in the regulation of LDL metabolism by controlling the levels of SORT1 and LDL receptor. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.