

Product datasheet for **MC224539**

Atp10b (NM_176999) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp10b (NM_176999) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atp10b
Synonyms: 5930426O13Rik; 9030605H24Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224539 representing NM_176999
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTTGCTCTTTGACTTTTTCTGGCTCCGATGAAATGGCGAACCAAGATGGCTTCTCCAATCTC
 CATCAGAAACCACACCACTGCTTTCTCCAGAGACAGACAGACAGGCCACAACACAGCAGAGCAGCGGT
 CGTATACCCCAACAACAGCATGTGTACCAGGACTGGAAGAAGGTCTGCAGGAGTACCCAGGCAACAGC
 ATCTGTACAACCAAGTACTCTCTCCTCACCTTCCGCCCCAGAATCTCTTTGAGCAGTTTCATAGGTGGG
 CCAACCTTACTTCTCTGTTCTGGTGTCTGAACTGGATGCCCTCCATGGAAAGTCTCCACAGGAAAT
 CACCATATTTCCACTGGCCACTGTCTGTGATCATCATGGTCAAAGATGGCATAGAGGACTTCAAGAGA
 TATTGCTTTGACAGGGAGATGAATAGTGCCAGCATTCAAATATATGAAAGAAAAGAACAACGCTACATGC
 TGAAGCGCTGGCAGGATGTGCGTGTGGGAGACTTTGTCCAGATGCAGTGAATGAGATTGCCAGCAGA
 CATTCTCCTTCTCTTCTCCTCAGACCCAGTGGGTCTGCCATCTGAAACTGCCAATTGGATGGAGAG
 ACCAACCTCAAGCAGAGGCGTGTGTAAGGGCTTCTCACAGCCGAGGTGCAGTTCCAACCAGAGCACT
 TCCACAGTACCATCGTGTGTGAAAAGCCCAACAACCATCTCAGCAAGTTTAAGGGTTATATGGAGCATCC
 TGATCAGACCAGGACTGGCTTTGGCAGCGAGAGTCTTCTGCTCCGAGGCTGCACCATCCGAAACCCGAG
 GTGGCGGCTGGCATTGTCTACGCAGGCCATGAAACAAAAGCCATGCTGAACAATAGTGGCCCCCGAT
 ACAAACGCAGCAAAATCGAGCGGCGCATCAACACAGATATCTTCTTCTGCATCGGCCTCCTCTTCTCAT
 GTGCCTCATTGGAGCTGTAGGCCACAGCCTCTGGAACGGTACCTTTAAAGAACATCCTCCCTTTGACGTG
 CCAGATGCCGATGGAACTTCTCTCTTGGCCTTGGAGGCTTCTATATGTTTCTCACAATGATCATCT
 TACTCCAGGTGTGATCCCGATCTCCTGTATGTGTCCATTGAGCTGGTAAAACCTGGGCAAGTGTCTCT
 CCTTACAACGACCTTGACCTATATGATGAAGAACTGATTTGTCTATTCAATGCCGAGCTCAAATATT
 ACAGAGGACCTGGCCAGATCCAGTACATCTTCTGACAAGACAGGGACCTGACGGAAAACAAGATGG
 TGTTCAGGCGTTGATACCATTGTGGGCAGCGAATATTGTACCAAGAAAATGCCAAGAGACTGGAGATGCC
 AAAGGAGCTGGACTCAGATGGTGAAGAGTGGACCCAGTACCAATGTCTGTCTTCCACCTAGATGGGCC
 CAGGGCTCAACAACGATGAGAAGCAAGGAGGTGCCAGCCTCTGAGGAGATGCCATAGTCCCCGGGTTCC



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CAATCCAGAGCCACTGCCGACAAAGATCTGTGGGGAGGTGGGAAACCTCACAGCCTCCTGTGGCCTTCAG
 CAGCTCAATAGAAAAAGATGTGACTCCTGACAAAAACCTCCTGAGCAAAGTGAGAGATGCTGCCCTGTGG
 CTAGAGACCTCAGATACCAGACCTGCCAAGCCTTCGCACTCCACCACTGCCTCCATTGCTGACTTCTTC
 TCGCCCTAACCATCTGCAACTCCGTCAATGGTGTCCACAACCACTGAGCCCAGAAAGAGGGTTACCACTCC
 ACCAGCCAACAAGGCTCTAGGGACATCCTTGGAGAAGATCAACAGCTCTTCAAAGGCTGAAGCTTTTG
 AGTCTCAGTCAATCATTCTCATCCACGGCCCCCTCTGACACAGATCTAGGAGAGAGTCTGGGACCCAAC
 TGCCACCATAGACTCCGATGAGAAAGATGACACGTCCGTGTGACGGGTGACTTCCACTGACGGTGG
 CTACCGGAGCAGCACATGGGAGCAGGGTGACATCCTGGGGTCTGAATCAGGCACCTTCTCTGGAGGAGGG
 CTGGAGGCACCAACTCTCAGCCAAGATGAACCAGAGCTGTGCTACGAGGCTGAAAGCCCTGATGAAGCAG
 CCCTAGTGCATGCTGCCGTGCCTACAGTTTACACTAGTGTCTAGGACACCTGAGCAGGTGACTGTGCG
 TCTGCCCCAGGGCATCTGCCTCACCTTTGACCTCCTTTTACGCTGGGCTTTGACTCTGTCCGGAAGAGA
 ATGTCAGTAGTGGTGAGGCACCACTGACTGATGAAATAATCGTCTACACCAAGGGTGTGACTCAGTCA
 TCATGGACCTGCTGGAAGATCCAGCCTGTGAGAGTAATATTGATGTGAAAAGAAGCTGAAGAGAATCCG
 AGCCAGGACCCAAAAACATCTGGACTTGTATGCAAGAGATGGCCTTCGAACCCTGTGCATCGCTAAGAAG
 GTTGTAGATGAGGAGGACTTCCAGAGGTGGCCAGCTTCCGTCTGAGGCTGAAGCATCCCTTGACAACC
 GAGAGGAGCTTCTGATGGAGACAGCCAGCACCTGGAGAATCACCTCACTTTACTTGGAGCCACTGGGAT
 TGAAGATCGACTCCAAGAAGGGTTCCAGATACCATCGCTGCACTGCGGGAGGCTGGAATCCAGCTCTGG
 GTTTTGACAGGAGATAAACAGGAGACAGCTGTCAATATCGCATATTCCTGCAAATGCTGGATCAGACTG
 ACACAGTGTACTCCATTAACACAGAGAATCAGGAAACCTGCGAGTCCATCCTCAATTGTACATTGGAAGA
 CATAAAGAGGTTTCATGAACCGCAGCAGCCAGCCAGAAAACCTCTGTGGGCACCGCATCCCACCTAAGATG
 CCATCTGTTAACTCGGGAGCTATGGCTCCTGAAATTGGACTGGTCATTGATGGGAAGACTGAATGCAA
 TTTTCCAGGAAAGCTGGAGAATAAGTTCTGGAGTTGACTCAGTACTGTCGGTCTGTCTGTGTGCC
 CTCCACCCACTGCAGAAGAGTATGATTGTCAAGCTGGTGCAGACAAGTTGAGCGTCATGACTCTTCC
 ATAGGGGATGGACCAATGACGTAAGCATGATTCAGGCTGCTGACATCGGCATTGGAATATCTGGGCAGG
 AAGGCATGCAGGCTGTCTGTCCAGTGACTTTGCCATTGCCCGCTTACGCCACCTCAAGAAGCTGTGCT
 TGTGCATGGCCACTGGTGTACTCGCGCCTGGCCAGGATGGTAGTGTATTACTTCTACAAGAATGTGTGC
 TACGTCAACCTGCTGTTTTGGTACCAGTTCTTCTGTGGTTTTCTGGCTCCACCATGATCGATTATTGGC
 AGATGATATTCTCAATCTCTTCTTACGTCCTTGCACCCATCATCTTTGGAGTCTCGATAAAGATGT
 CTCTGCAGAAACACTCCTGGCATTGCCTGAGTTATAACAAGAGTGGCCAGAACTCTGAGTGTACAACCTG
 CCAACTTTCTGGTTTTCCATGGCTGATGCATTCTACCAGAGCCTCATCTGTTTTCTTATCCCTTACCTGA
 CCTACCGAGGTTACAGACATAGATGTCTTACTTTTGGAACTCCAATCAACACCATCTCCCTCACCACCAT
 CCTCTTGCAACCAGGCAATGGAAATGAAGACATGGACTGTCTCCATGGCCTTGTCTCTGGGAAGCTTC
 TTGATGTACTTCGTGGTTTTCCCTAATATACAACGCCACTTGTGTACCTGCAACAGCCCCACCAATCCCT
 ACTGGGTGATGGAAAGGCAGCTCTCAGACCCACGTTCTACCTCATCTGCCTCCTCACTCCGGTTGTGGC
 TCTTCTACCAAGGATTTTTCTCTATCTCTACAAGGTACATATGGGAAGTCTCTAATCTCAAAGCTCAG
 AAAATTGACAAGCTGCCCATAGACAAAAGAAACCTTGAATCCAGAAGCTGGAGAAGCAAACAGAGGCCTG
 CCCCTGCCTCTGCTTCTGCTTCTGCCTCAGCTCCTGCTACTGGCACTGTCCACACTAGACCCCATGCCA
 TCCAGTACCACCTGAAGCACAGCAGAACTTTGGAGCCAGTACCTCAAAGAGCTCTGGCCCTCCAGACAG
 AAGCATGTGGAAGACCGGTTCTCCAGGATCCGAGATGCAGCAGAGAGCATTCCAGGGATGACACATGCA
 CTGTAGATACATTAGCTAACTTTCTTCTGGGAATGCCTTCTGGATCCAAACAGGACAGTGGCTCCTAC
 AGCCTATTCCAGGGTCAAAGGATGTATCTCGACACTCAAGCAAAGGCAGCCATCGCAGATCTCAGAGT
 TCACTGACCATATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_176999
 Insert Size: 4425 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_176999.3</u> , <u>NP_795973.2</u>
RefSeq Size:	6926 bp
RefSeq ORF:	4425 bp
Locus ID:	319767
UniProt ID:	<u>B1AWN4</u>
Cytogenetics:	11 A5
Gene Summary:	Catalytic component of a P4-ATPase flippase complex, which catalyzes the hydrolysis of ATP coupled to the transport of glucosylceramide (GlcCer) from the outer to the inner leaflet of lysosome membranes (By similarity). Plays an important role in the maintenance of lysosome membrane integrity and function in cortical neurons (PubMed:32172343).[UniProtKB/Swiss-Prot Function]