

Product datasheet for **MC206745**

Aqp7 (BC022223) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp7 (BC022223) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aqp7
Synonyms:	AQP7L, AQPap, AQP 7
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC022223
GAGGCAGACTTGAATCTCCTTTCTGTTTGTTAGCTTGGTCTGCTGCTTCAGGTCCACCCACAACCTCCACA
ATGGCCCCCAGGTCTGTGCTGGAGACCATACAATCAGTGCTACAGAAGAATATGGTGCGAGAGTTTCTGG
CAGAGTTTCTGAGTACCTATGTCATGATGGTGTTTGGCCTTGGTCCGTGGCTCACATGGTTTTAGGAGA
AAACTCTGGCAGCTATCTCGGTGTCAACTTGGGTTTTGGATTTCGGAGTGACCATGGGAGTCCATGTAGCA
GGCGGCATCTCTGGGGCCACATGAATGCCGCAGTGACTTTCACCAATTGTGCACTAGGCCGAATGACCT
GGAAGAAGTTCCCTGTATATGTGCTGGGTGAGTTCTCGGCTCCTTCTCAGCTGCAGCTACCACCTACTT
AATTTTCTATGGTGCCATTAACCACTTTGCAGGCGGAGACCTGTTGGTGACAGGTTCCAAGGCCACTGCA
AACATTTTTGCCACCTATCTTCTGAATACATGACACTGTGGCGGGGCTTCTGGATGAGGCATTCTGTGA
CTGGGATGCTGCAGCTGTGTCTCTTCGCCATCACCAGACAAGAAGACAGTCCAGCACTTCAAGGGACCGA
GCCCCTCGTGATAGGCATCCTTGTTACCGTCCTTGGGGTGTCGTAGGCATGAACTCCGGATATGCAATC
AACCCATCCCGTGACCTGCCTCCCGGTTGTTCACTTTTCATTGCTGGCTGGGGCAACAAGTGTTCAGAG
CCGGAACAACAACTGGTGGTGGGTGCCGTTGGTGGCACCACCTTCTGGCGCCTACCTAGGTGGTATTGTATA
CCTGGGTTTTAATCACCCAGCATACCACAGGATCCTCAGAGACTGAGAAATTTTACAGCAAGAGACCAG
AAGGTAAGTGCATCATACAAGAATGCAGCTTCTGCAAAACATAAGTGGCTCTGTGCCTCTAGAGCACTTCT
AAGTAGAGCTTCTCTTTGACCACAACCGTACTGCAATAAAGCACACCACCTATCAGCGGTCCCCACTCC
TTGGGATCTCCTGCAGCTGAACTCCCTCCTAGGTTTTTCTGGGAGCTTCTGAGTTATTCCAGCCTGGTAC
TTGTCGTGGAGAGCAGGCTGGCCTTGAACCTTGATCTTCTTGCCTCTTTCTCCTGAGTGCTGGGGATAC
AGGCATTTACTACCCTGCTTGGCATATTCAGGGTGATTCTGGGCTCTTTCTGAGGACTAGAGCATAGG
GTCAGAAGACTCCAGCTCTTTCAGTTCTAGGAGGTGGGGTGTCAAGGGGGAATGTCTACTTTGGGGCT
CAGGGTGAGTGATATAAAGGGCTTTCGTGCATCAGTATGTGTGTTGGGGGAACAGTGAGAAAAAGACCGG
AGGTAGCTGATGGGAGATCAGATTTGGGGGTCTTTGACGGTTTTCTGGATAGGAGTACAGGATCTCCTGG
CTTCTCCCTTCTCTAGTTTTGAGCCAGAGAAGGTAAGGCTAAGAGTTTACATCAGAAATCCTCAACTTT
TTTTTTTTTTTTTTTTGTTAATGACTTCCTCAGTGGCCTTGAGTTCTCCACCCCTGTTTTTCTTAAAT
TATGTAGCCCAGGCTAGCCTTGACTGGAACCTTATATAACTAAGTTTAGCCATGAACTCTGGATTGTCT
GGCCTCCACCTCCTGAGTTCTGGGATTACAGGTGCGCACCACCATCCAGTTTATATGGGTGCTGGGA
TCAAACCAAGGCCTTGATATGCTAGGTAATATCCATAACTAACTTAAATCCCAGCTCCCCAGTTTTTT
CTTTTCTTGCTTTTCTTTCTTTCTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT
TTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT
TTTTCTTTTTTTGTTTTTCAAGACAGGGTTTTCTCGGTGACGCCCTGGCTGCTGGAACCTAAGTTGT
AGACTAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAGAGCGTGC
GCCACCACTGCCCGGCCCAAAATTTTTCTTAATTAATAATTTAATACCACAAAAAAAAAAAAAAAAAAAAA AAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC022223

Insert Size: 912 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC022223, AAH22223</u>
RefSeq Size:	2176 bp
RefSeq ORF:	912 bp
Locus ID:	11832
Cytogenetics:	4 A5
Gene Summary:	Forms a channel that mediates water and glycerol transport across cell membranes at neutral pH (PubMed:15591341, PubMed:15746100, PubMed:16009937). The channel is also permeable to urea (By similarity). Plays an important role in body energy homeostasis under conditions that promote lipid catabolism, giving rise to glycerol and free fatty acids (PubMed:15591341, PubMed:16009937). Mediates glycerol export from adipocytes (PubMed:15591341, PubMed:15746100, PubMed:16009937). After release into the blood stream, glycerol is used for gluconeogenesis in the liver to maintain normal blood glucose levels and prevent fasting hypoglycemia (PubMed:15591341). Required for normal glycerol reabsorption in the kidney (PubMed:15998844, PubMed:17077387).[UniProtKB/Swiss-Prot Function]