

Product datasheet for **MC200625**

Aqp1 (NM_007472) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp1 (NM_007472) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aqp1
Synonyms:	CHIP28
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC007125 sequence for NM_007472
 GTTGAGCACCAGGCATCCAGCGGTCAAGTCGAGGCCCTGCCAGCATGGCCAGTAAATCAAGAAGAAGC
 TCTTCTGGAGGGCTGTGGTGGCTGAGTTCCTGGCCATGACCCCTCTTCGTCTTCATCAGCATCGGTCTGC
 CCTAGGCTTCAATTACCCACTGGAGAGAAAACCAGACGCTGGTCCAGGACAACGTGAAGGTGTCGCTGGCC
 TTTGGTTTGTAGCATCGCTACTCTGGCCAAAGTGTGGGTACATCAGCGGTGCTCACCTCAACCCCTGCGG
 TCACACTGGGGCTCCTGCTCAGTGTAGATCAGCATCCTCCGGGCTGTATGTACATCATCGCCAGTG
 TGTGGGAGCCATCGTCGCCACGGCCATTCTCTCGGGCATCACCTCCTCCCTAGTCGACAATTCACCTTGGC
 CGCAATGACCTGGCTCACGGTGTGAACTCCGGCCAAGGCCTGGGCATTGAGATCATTGGCACTCTGCAGC
 TGGTACTGTGCGTTCTGGCCACCACTGACCGGAGGCGCCGAGACTTAGGTGGCTCAGCCCGCTTGGCAT
 TGGCTTGTCTGTGGCCCTTGGACACCTGCTGGCGATTGACTACACTGGCTGCAGTATCAACCCTGCCCGG
 TCATTTGGCTCTGCTGTGCTCACCCGAACTTCTCAAACCACTGGATTTTCTGGGTGGGGCGTTTATTG
 GGGGTGCCCTGGCAGTGTCTATATGACTTCATCTGGCCCCACGCAGCAGCGACTTCACAGACCCGAT
 GAAGGTGTGGACCAGTGGCCAGGTGGAGGAGTATGACCTGGATGCTGACGACATCAACTCCAGGGTGGAG
 ATGAAGCCAAAATAGAGGAGGCTTGGCCTGGGCATCTATATGGGGTGGGGCAGGGATGGCCGGAGGGAG
 GGGAGGGCCGAAATCATATTGTAGACACTCTGACAAGCTGACCAAGTCACTCCCAAGACTGCCTGAC
 CCACATGGTCTAGCCTTGTCTGGGGCAGTAATATCACTGTCTTTCTTTCTGTTTCTGTTCTCAGAGCTT
 CCTGGGGACCAAGATTTATCAACTCAGCACCCCACTCCTTTGACATCATGGAGGAGTGAAAGCGAGGGAC
 CCACTTGTAGTTGTCCCTCAGAGTGTCTAGGAAAGTCCCCTCATTCCAAAGCTGCCAGCAAGTCCC
 CCACCTTAGGTGCCTGGGATTCTGCCAATGTGCTTTGTGCTTTGACCCGAGCCTTCTTGGGGTAGGC
 ACCTTATCTCAAAGGCACTTTGAGGGAGAGGAGTCCCCTAACTTTCCCTTTGGTCTGACTTACCTCC
 AGGACCTTCCCCTTGAACCTCACTCTAAGACCTTGAATGTCCCTGTGCTGAGGCCTCAGTGATCAGT
 CTGTAAGTGGCAAGGAAGGACAGCTTTGGGGATTCTGTAAGTGTGGACATGCCACAGTTCTAGAAGG
 GACAGTCTTGACAGCACTGCTTTGTGTACCCGGCCTATACTCTTTCCAGCGTCCACAGCCACGAGCAC
 ACGTGGATGGGCCACGGATCAGAGAATCAGTGTGGGATGCAAGAGTGCCTGTTACACACACAGCCTTC
 CTAGAGGCGGGTTAGCTGTAGCAGAACGAAGGTCAATTTTGGTGAAGAAGAGCTCACACTATCTTACC
 TAGCTCTAGTGGGTCTGCCCGTGAACATGGCACCAGTGGATGTTTATTTGGTCTCCAGTCTCCCTT
 GCAGTATAGATCTGGTGTGTCTGTGTTTAAAGAGCATTGGGCTATGTGCAGTGTATGTCTGAGGAC
 ATGCTGGGCACACAAGGGTTGGATGCCCTTAGTTCATCATGAGCAAGGAGGTCCTCTGGCCCTGGCTT
 GTGAGCTCCTGGCTGGATGAGTGTGACTGGAGCCTGGACAATCTGCAGAGGCTTACTCTGTGCTCCAGG
 CACAGTCTTCTCTGCAATTGGCCCAATGCTACAGCTTATGTTGCAGCCCAAGGACAGCTCAGAGTGCAG
 TCAGCTCAGGGGTTGCATTTAGCTCTAGGTCATTCCATTGGATCCCATCAATCCAGAGTGGCTCTACCAC
 TGTGCCCTTAACCATGTTGTGAACCGAGAGCCACATTCTCAGGTGCTTGAAGCAGCAGAAGAGTCAAG
 AGGCCACTGACCACTGGCATATCACAGTGCACACTCGTCTCCGGTCCCTAGCAGACACTGTACCCACTT
 AACAGATAAGGGCACTGAGGACCATATGCTCAACTGTATCATATTGGATCAAGCTTAGCAGTCAAGGCC
 ATGTTTGGCCACCCCATGGTCAATGACGTGGACTCCTCTCACCTCCAGCTTCTCAGTTTCTGCTGGGCA
 ATGGCTAAGGGCCAGGGGTGAGGGTGGGGTGGAGGTGGTGAAGCTGTGCTGGAGGGGGCAGGGCAGG
 CCCATCCCACCTGGTTCTGGCCATTGTGAACCAGGACCTGTATCTGTCTGCTGTGTATGTTTCTTTG
 CAATTGAATTTTCTTATGGTAAGAAAAATAAAGGACAATGACTTGTAAAGGTCAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_007472
Insert Size: 810 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: [BC007125](#), [AAH07125](#)

RefSeq Size: 2614 bp

RefSeq ORF: 810 bp

Locus ID: 11826

UniProt ID: [Q02013](#)

Cytogenetics: 6 27.38 cM

Gene Summary: Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.[UniProtKB/Swiss-Prot Function]