

Product datasheet for **SC121943**

Aquaporin 1 (AQP1) (NM_198098) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 1 (AQP1) (NM_198098) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aquaporin 1
Synonyms:	AQP-CHIP; CHIP28; CO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121943 sequence for NM_198098 edited (data generated by NextGen Sequencing)

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ATGGCCAGCGAGTTC AAGAAGAAGCTCTTCTGGAGGGCAGTGGTGGCCGAGTTCCTGGCC  
ACGACCCCTCTTTGTCTTCATCAGCATCGGTTCTGCCCTGGGCTTCAAATACCCGGTGGGG  
AACCAACCAGACGGCGGTCCAGGACAACGTGAAGGTGTCGCTGGCCTTCGGGCTGAGCATC  
GCCACGCTGGCGCAGAGTGTGGGCCACATCAGCGGCGCCACCTCAACCCGGCTGT CACA  
CTGGGGCTGCTGCTCAGCTGCCAGATCAGCATCTCCGTGCCCTCATGTACATCATCGCC  
CAGTGCCTGGGGGCCATCGTCGCCACCGCCATCCTCTCAGGCATCACCTCCTCCCTGACT  
GGGAACCTCGCTTGGCCGAATGACCTGGCTGATGGTGTGAACTCGGGCCAGGGCCTGGGC  
ATCGAGATCATCGGGACCCTCCAGCTGGTGTATGCGTGTGGTACTACCGACCGGAGG  
CGCCGTGACCTTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTGTAGCCCTTGGACAC  
CTCCTGGCTATTGACTACACTGGCTGTGGGATTAACCCTGCTCGGTCCTTTGGCTCCGCG  
GTGATCACACACA AACTTCAGCAACCACTGGATTTTCTGGGTGGGGCCATT CATCGGGGA  
GCCCTGGCTGTA CTATCTACGACTT CATCCTGGCCCCACGCAGCAGTGACCTCAGAC  
CGCGTGAAGGTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATC  
AACTCCAGGGTGGAGATGAAGCCCAATAG
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Clone variation with respect to NM_198098.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_198098 unedited TCAAATTTGTATACGACTCCTATAGGCGGCCGNAATTCGCACCAGCTCAGGCCAAGCC CCCTGCCAGCATGGCCAGCGAGTTCAAGAAGAAGCTCTTCTGGAGGGCAGTGGTGGCCGA GTTCTGGCCACGACCCTCTTTGTCTTTCATCAGCATCGGTTCTGCCCTGGGCTTCAAATA CCCCGTGGGGAACAACCAGACGGCGGTCCAGGACAACGTGAAGGTGTCGCTGGCCTTCGG GCTGAGCATCGCCACGCTGGCGCAGAGTGTGGCCACATCAGCGCGCCCACTCAACCC GGCTGTACACTGGGGCTGCTGCTCAGCTGCCAGATCAGCATCTTCCGTGCCCTCATGTA CATCATCGCCAGTGCCTGGGGCCATCGTCGCCACCGCCATCCTCTCAGGCATCACCTC CTCCCTGACTGGGAACCTCGCTTGGCCGCAATGACCTGGCTGATGGTGTGAACTCGGGCCA GGGCTGGGCATCGAGATCATCGGGACCCTCCAGCTGGTGTATGCGTGTGGTACTAC CGACCGGAGGCGCGTGACCTTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTCTGTAGC CCTTGGACACCTCTGGCTATTGACTACACTGGCTGTGGGATTAACCCTGCTCGGTCCTT TGGCTCCGCGGTGATCACACAACTTCAGCAACCACTGGATNNTCTGGTGGNGCCATT CATCGNNGGAGCCCTGGCTGTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGA CCTCACAGAACGCGTGAANGGTGTNGACCANNCGCCAGTGGNAAGGAGTATGACCTGG ATGCCNGACGACATCCACTCCCAGGGTGNAAAATGAAGCCATANAAGAGGGGTCTGGCC CGGCATCCACCTNNGGGGAGGCAGNCCCNCCCCCAGANNNNNNNNNNNNNGGGTTAA ACT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_198098 unedited TTTTTTTTTTTTTTTTTGTACCTTACAAGGGATTTCTTTATTTTCTTAACATATAATGA AATTCCAACCTCAAAAAGACATATTTGCAGAGCAAACAGATGCAGGGCCTTGGGGTGAA CAACCTAAAACCAGGCAGGGGGGGGGGGGACCCCTTTCCCTTCATTACAACCTTTTCCC ACTCCTGGCCCCCTGGCCATTGCCAGGCAAAAACCTGAAAAGCTGAAAATGAAAGGAATCA ACCTCGTGGTCCAGGGAGTAACCAAAAACAGGGCCTTGGTTACTAGGCCTGGCCAAATCA TTGTCTAACTGAAACCGGGGGCCTCAGTTTCTTTATCTGTTAAATGAGCTAAAAGTTCT GCTAGGGAATGAAAAAAGAGTGTGCAAATGTGATG
Restriction Sites:	NotI-NotI
ACCN:	NM_198098
Insert Size:	810 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_198098.1</u> , <u>NP_932766.1</u>
RefSeq Size:	2764 bp

RefSeq ORF:	810 bp
Locus ID:	358
UniProt ID:	P29972
Cytogenetics:	7p14.3
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>