

Product datasheet for **SC328288**

Aquaporin 1 (AQP1) (NM_001185060) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 1 (AQP1) (NM_001185060) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aquaporin 1
Synonyms:	AQP-CHIP; CHIP28; CO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001185060, the custom clone sequence may differ by one or more nucleotides</p> <p>ATGCCTGGGGCTCGCCCCCTTGCCTCTGGTCTTGGTACCCAGAATACCCTGGCCTGGATG CAGCTGGATGCAAAGGCCCCAGCTCACCCAGGCCTCTCCAGCTTCTAGGCAGAGTGGGG CCTGGGTCTAGGCAGCTGGCTGATGGTGTGAACCTCGGGCCAGGGCCTGGGCATCGAGATC ATCGGGACCTCCAGCTGGTGCTATGCGTGCTGGCTACTACCGACCGAGGCGCCGTGAC CTTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTCTGTAGCCCTTGACACCTCCTGGCT ATTGACTACACTGGCTGTGGGATTAACCCTGCTCGGTCTTTGGCTCCGCGGTGATCACA CACAACTTCAGCAACCACTGGATTTTCTGGGTGGGGCCATTATCGGGGAGCCCTGGCT GTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGACCTCACAGACCGCGTGAAG GTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATCAACTCCAGG GTGGAGATGAAGCCCAATAG</p>
Restriction Sites:	Please inquire
ACCN:	NM_001185060
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.


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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_001185060.1, NP_001171989.1</u>
RefSeq Size:	2487 bp
RefSeq ORF:	561 bp
Locus ID:	358
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 (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>