

Product datasheet for **SC300078**

Aquaporin 2 (AQP2) (NM_000486) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 2 (AQP2) (NM_000486) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aquaporin 2
Synonyms:	AQP-CD; NDI2; WCH-CD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000486 edited AGGGCTCTGCAGCATGTGGGAGCTCCGCTCCATAGCCTTCTCCAGGGCTGTGTTCCGAGA GTTCTTGGCCACACTCCTCTTCGTCTTTGGCCTCGGCTCTGCCCTCAACTGGCCACA GGCCCTGGCCTCTGTGCTACAGATTGCCATGGCGTTTGGCTTGGGTATTGGCACCCCTGGT ACAGGCTCTGGGCCACATAAGCGGGGCCACATCAACCCTGCCGTGACTGTGGCCTGCC GGTGGGCTGCCACGTCTCCGTTCTCCGAGCCGCCTTCTACGTGGCTGCCAGCTGCTGGG GGCTGTGGCCGGAGCCGCTCTGCTCCATGAGATCAGCCAGCAGACATCCGCGGGACCT GGCTGTCAATGCTCTCAGCAACAGCAGCAGCGGCTGGCCAGGCGGTGACTGTGGAGCTCT CCTGACACTGCAGCTGGTCTGCTCATCTTCGCCTCCACCGATGAGCGCCGGGAGAGAA CCCGGGCACCCCTGCTCTCCATAGGCTTCTCTGTGGCCCTGGGCCACCTCCTTGGGAT CCATTACACCGGCTGCTCTATGAATCCTGCCCGCTCCCTGGCTCCAGCTGTCGTCCTACTGG CAAATTTGATGACCACTGGGTCTTCTGGATCGGACCCCTGGTGGGCGCCATCCTGGGCTC CCTCCTTACAACACTACGTGCTGTTTCCGCCAGCCAAGAGCCTGTGCGGAGCGCCTGGCAGT GCTGAAGGGCCTGGAGCCGGACACCGATTGGGAGGAGCGCGAGGTGCGACGGCGGCGAGTC GGTGGAGCTGCACTCGCCGAGGCTGCCACGGGGTACCAAGGCCTGA
Restriction Sites:	Please inquire
ACCN:	NM_000486
Insert Size:	1000 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).



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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.
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_000486.3</u> , <u>NP_000477.1</u>
RefSeq Size:	4222 bp
RefSeq ORF:	816 bp
Locus ID:	359
UniProt ID:	<u>P41181</u>
Cytogenetics:	12q13.12
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a water channel protein located in the kidney collecting tubule. It belongs to the MIP/aquaporin family, some members of which are clustered together on chromosome 12q13. Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes insipidus. [provided by RefSeq, Oct 2008]