

## Product datasheet for MC208140

### Aqp2 (NM\_009699) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp2 (NM_009699) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aqp2
Synonyms:	AQP-CD; cph; jpk; WCH-CD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208140 representing NM_009699 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGGAACTCCGGTCCATAGCGTTCTCCGAGCGGTGCTGGCCGAGTTCCTGGCCACGCTCCTTTTCG  
TCTTCTTTGGCCTTGGCTCAGCCCTCCAGTGGCCAGCTCCCCACCCTCTGTGCTCCAGATTGCCGTGGC  
CTTTGGTCTGGGCATTGGCACCCCTGGTTCAGGCTCTGGGCCATGTCAGCGGGGCCACATCAACCCTGCT  
GTGACTGTGGCGTGCCTGGTGGTTGCCATGTCTCCTTCCTTCGAGCTGCCTTCTACGTGGCTGCCCAGC  
TGCTGGGGCCGTGGCCGGGGCCGCATCTCCATGAGATTACCCCTGTAGAAATCCGCGGGGACCTGGC  
TGTC AATGCTCTCCACAACAATGCAACAGCCGGCCAGGCGGTGACTGTGGAGCTTCTCCTGACCATGCAG  
CTGGTGTGTGCATCTTTGCCTCCACTGATGAGCGCCGAGTGACAACCTGGGTAGCCCTGCTCTCTCCA  
TTGGTTTCTCTGTTACCCTGGGCCACCTCCTTGGGATCTATTTACCCGGCTGCTCCATGAATCCAGCCCG  
CTCCCTGGCTCCAGCAGTTGTCACCTGGCAAGTTTATGATCACTGGGTCTTCTGGATCGGACCCCTGGT  
GGCGCCGTCATCGGTTCCCTCCTCTACAACCTACCTGCTGTTCCCTCGACCAAGAGCCTGCAGGAGCGCC  
TGGCGGTGCTCAAGGCCTGGAGCCGGACACTGACTGGGAGGAACGCGAAGTGGCGGCGGCAGTCGGT  
GGAGCTGCACTCTCCGCAGAGCCTGCCGCGGGCAGCAAGGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_009699
Insert Size:	816 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009699.3</a> , <a href="#">NP_033829.3</a>
<b>RefSeq Size:</b>	1416 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	11827
<b>UniProt ID:</b>	<a href="#">P56402</a>
<b>Cytogenetics:</b>	15 56.13 cM
<b>Gene Summary:</b>	Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient (PubMed:10191086). Plays an essential role in renal water homeostasis (PubMed:16641094).[UniProtKB/Swiss-Prot Function]