

## Product datasheet for **MC217687**

### Aqp4 (BC024526) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aqp4 (BC024526) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Aqp4  
**Synonyms:** MIWC, mMIWC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >BC024526  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGGCTTTCAAAGGAGTCTGGACTCAGGCTTTCTGGAAGGCAGTCTCAGCAGAATTTCTGGCCACGC  
TTATCTTTGTTTTGCTCGGTGTGGGATCCACCATAAACTGGGGTGGCTCAGAAAACCCCTTACCTGTGGA  
CATGGTCTCATCTCCCTTTGCTTTGGACTCAGCATTGCTACCATGGTGCAGTGTCTTTGGCCACATCAGT  
GGTGGCCACATCAATCCCGCTGTGACTGTAGCCATGGTGTGCACACGAAAGATCAGCATCGCTAAGTCCG  
TCTTCTACATCATTGCACAGTGCCTGGGGCCATCATTGGAGCCGGCATCCTCTACCTGGTCACACCTCC  
CAGTGTGGTTGGAGGATTGGGAGTCAACCGGTTTCATGGAACCTCACCGCTGGCCATGGGCTCCTGGTG  
GAGTTAATAACTACTTTCCAGTTGGTGTCACTATTTTGGCAGCTGTGATTCCAACGAAGTATGTTA  
CTGTTCAATAGCTTTAGCAATTGGATTTCCGTTGCAATTGGACATTTGTTTGAATCAATTATACTGG  
AGCCAGCATGAATCCAGCTCGATCTTTGGACCCGAGTTATCATGGAAACTGGGCAAACCACTGGATA  
TATTGGTTGGACCAATCATGGGCGCTGTGCTGGCAGGTGCCCTTATGAGTATGTCTTCTGTCTGATG  
TGGAGCTCAAACGTCGCCTTAAGGAAGCCTTCAGCAAAGCCGCGCAGCAGACAAAAGGGAGCTACATGGA  
GGTGGAGGACAACCGGAGCCAAGTGGAGACGGAAGACTTGATCCTGAAGCCCGGAGTGGTGCATGTGATT  
GACATTGACCGTGGAGAAGAGAAGAAGGGAAAGACTTTCGGGAGAGGTATTGTCTTCCGTATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** BC024526  
**Insert Size:** 906 bp



<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>	<u><a href="#">BC024526</a></u> , <u><a href="#">AAH24526</a></u>
<b>RefSeq Size:</b>	1622 bp
<b>RefSeq ORF:</b>	905 bp
<b>Locus ID:</b>	11829
<b>Cytogenetics:</b>	18 8.74 cM
<b>Gene Summary:</b>	This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2015]