

## Product datasheet for **MG204192**

### Aqp4 (BC024526) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp4 (BC024526) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aqp4
Synonyms:	MIWC, mMIWC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204192 representing BC024526 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGCTTTCAAAGGAGTCTGGACTCAGGCTTTCTGGAAGGCAGTCTCAGCAGAATTTCTGGCCACGC  
TTATCTTTGTTTTGCTCGGTGTGGGATCCACCATAAACTGGGGTGGCTCAGAAAACCCCTTACCTGTGGA  
CATGGTCCTCATCTCCCTTTGCTTTGGACTCAGCATTGCTACCATGGTGCAGTCTTTGGCCACATCAGT  
GGTGGCCACATCAATCCCGCTGTGACTGTAGCCATGGTGTGCACACGAAAGATCAGCATCGCTAAGTCCG  
TCTTCTACATCATTGCACAGTGCCTGGGGCCATCATTGGAGCCGCATCCTCTACCTGGTCACACCTCC  
CAGTGTGGTTGGAGGATTGGGAGTCAACACGGTTCATGGAACCTCACCGCTGGCCATGGGCTCCTGGTG  
GAGTTAATAACTACTTTCCAGTTGGTGTCACTATTTTTGCCAGCTGTGATTCCAACGAAGTATGTTA  
CTGGTTCAATAGCTTTAGCAATTGGATTTCCGTTGCAATTGGACATTTGTTTGAATCAATTATACTGG  
AGCCAGCATGAATCCAGCTCGATCTTTTGGACCCGAGTTATCATGGGAAACTGGGCAAACCACTGGATA  
TATTGGTTGGACCAATCATGGGCGTGTGCTGGCAGGTGCCCTTATGAGTATGTCTTCTGTCTGATG  
TGGAGCTCAAACGTCGCCTTAAGGAAGCCTTCAAGCAAGCCGCGCAGCAGACAAAAGGGAGCTACATGGA  
GGTGGAGGACAACCGGAGCCAAGTGGAGACGGAAGACTTGATCCTGAAGCCCGGAGTGGTGCATGTGATT  
GACATTGACCGTGGAGAAGAGAAGAAGGGAAAGACTCTTCGGGAGAGGTATTGTCTTCCGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204192 representing BC024526  
 Red=Cloning site Green=Tags(s)

MVAFKGVWTQAFWKAVSAEFLATLIFVLLGVGSTINWGGSENPLPVMVLISLCFGLSIATMVQCFGHIS  
 GGHINPAVTVAMVCTRKISIAKSVFYIIAQCLGAIIGAGILYLTPPSVVGGLGVTTVHGNLTAGHLLV  
 ELIITFQLVFTIFASCDSKRTDVTGSIALAIGFSVAIGHLFAINYTGASMNPARSFGPAVIMGNWANHWI  
 YWVGPIMGAVLAGALYEYVFCPDVELKRRLKEAFSKAAQQTGKSYMEVEDNRSQVETEDLILKPGVVHVI  
 DIDRGEKKKGDSSGEVLSSV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC024526

**ORF Size:** 905 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [BC024526](#), [AAH24526](#)

**RefSeq Size:** 1622 bp

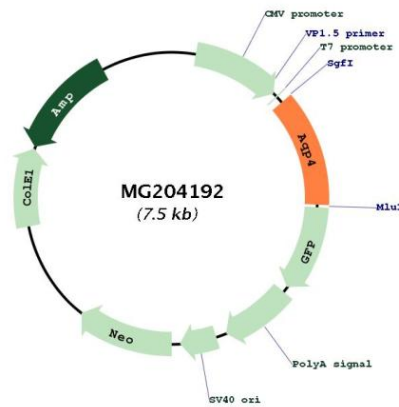
**RefSeq ORF:** 905 bp

**Locus ID:** 11829

**Cytogenetics:** 18 8.74 cM

**Gene Summary:** 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]

### Product images:



Circular map for MG204192