

Product datasheet for MR204192

Aqp4 (BC024526) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp4 (BC024526) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aqp4
Synonyms:	MIWC, mMIWC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204192 representing BC024526 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGGTGGCTTTCAAAGGAGTCTGGACTCAGGCTTTCTGGAAGGCAGTCTCAGCAGAATTTCTGGCCACGC
TTATCTTTGTTTTGCTCGGTGTGGGATCCACCATAAACTGGGGTGGCTCAGAAAACCCCTTACCTGTGGA
CATGGTCCTCATCTCCCTTTGCTTTGGACTCAGCATTGCTACCATGGTGCAGTCTTTGGCCACATCAGT
GGTGGCCACATCAATCCCGCTGTGACTGTAGCCATGGTGTGCACACGAAAGATCAGCATCGCTAAGTCCG
TCTTCTACATCATTGCACAGTGCCTGGGGCCATCATTGGAGCCGCATCCTCTACCTGGTCACACCTCC
CAGTGTGGTTGGAGGATTGGGAGTCAACCGGTTATGAAACCTCACCGCTGGCCATGGGCTCCTGGTG
GAGTTAATAACTACTTTCCAGTTGGTGTCACTATTTTTGCCAGCTGTGATTCCAACGAAGTATGTTA
CTGGTTCAATAGCTTTAGCAATTGGATTTCCGTTGCAATTGGACATTTGTTTGAATCAATTATACTGG
AGCCAGCATGAATCCAGCTCGATCTTTGGACCCGAGTTATCATGGGAAACTGGGCAAACCACTGGATA
TATTGGTTGGACCAATCATGGGCGTGTGCTGGCAGGTGCCCTTATGAGTATGTCTTCTGTCTGATG
TGGAGCTAAACGTCGCCTTAAGGAAGCCTTCAAGCAAGCCGCGCAGCAGACAAAAGGGAGCTACATGGA
GGTGGAGGACAACCGGAGCCAAGTGGAGACGGAAGACTTGATCCTGAAGCCCGGAGTGGTGCATGTGATT
GACATTGACCGTGGAGAAGAGAAGAAGGGAAAGACTCTTCGGGAGAGGTATTGTCTTCCGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204192 representing BC024526
Red=Cloning site Green=Tags(s)

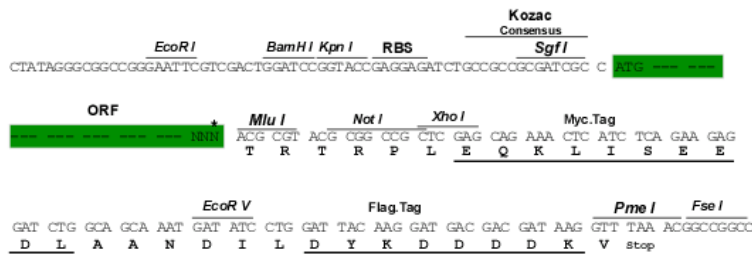
MVAFKGVWTQAFWKAVSAEFLATLIFVLLGVGSTINWGGSENPLPVMVLISLCFGLSIATMVQCFGHIS
 GGHINPAVTVAMVCTRKISIAKSVFYIIAQCLGAIIGAGILYLTPPSVVGGLGVTTVHGNLTAGHLLV
 ELIITFQLVFTIFASCDSKRTDVTGSIALAIGFSVAIGHLFAINYTGASMNPARSFGPAVIMGNWANHWI
 YWVGPIMGAVLAGALYEYVFCPDVELKRRLKEAFSKAAQQTGKGSYMEVEDNRSQVETEDLILKPGVVHVI
 DIDRGEKKKGDSSGEVLSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC024526

ORF Size: 903 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

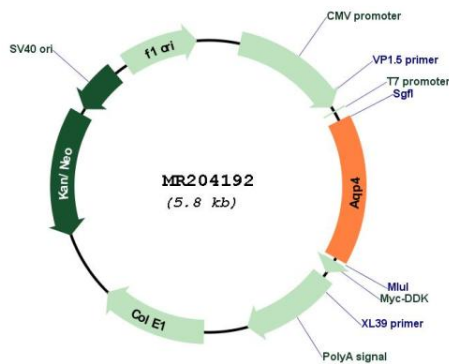
Locus ID: 11829

Cytogenetics: 18 8.74 cM

MW: 59.4 kDa

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 MR204192