

Product datasheet for **MR221673**

Aqp11 (NM_175105) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aqp11 (NM_175105) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aqp11
Synonyms: 1700015P13Rik; AI648923; sjds
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221673 representing NM_175105
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGCGCTACTGGGGCTCCGGCCGAGGTGCAGGACACCTGCATCTCGCTGGGGCTAATGCTGCTGT
TCGTGCTGTTTCGTGGGGCTGGCCCGGTGATCGCCCGCAACAGCTACACAGGCCCGTGGTCCACGCCTT
CGTCCTGGAGTTTCTAGCTACCTCCAGCTCTGCTGCTGCACCCACGAGCTCCAAGTCTGAGCGAGCAG
GACTCTGCGCACCCACCTGGACTCTGACTGATCTACTTCTTTTCTTGGTGCATGGCCTGACCTGG
TGGGCACAGCTAGCAACCCGTGCGGCGTGATGCAGATGATTCTGGGGGTATGTCCCCGAAATGGG
TGCCGTGAGGTTGTTGGCTCAGCTGGTTAGCGCCCTGTGCAGCAGGACTGCATAAGCGCCCTGTGGAGC
CTGAGTCTGACCAAGTACCATTACGACGAAAGGATCTTAGCTTGCAGGAATCCCATCCACACCGACATGT
CCAAAGCGATCATCATAGAGGCCATCTGCTCCTTTATTTTCCACAGCGCTCTACTGCACTTCCAGGAGGT
CCGAACCAAGCTTCGCATCCACCTGCTGGCTGCACTCATCACCTTTTGGCCTATGCAGGAGGGAGCCTC
ACAGGAGCATTGTTTAAACCAGCGCTGGCACTTCTCTGCACTTCCGTGCTTTGACGAACCTTTCTATA
AGTTTTTGTAGTATACTGGCTTGCTCCTTCTGTAGGTGTGCTGATGATGATCCTCATGTTCAAGTTTTT
CCTTCCATGGCTGCATAACAATCAAATGACTAATAAAAAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR221673 representing NM_175105
 Red=Cloning site Green=Tags(s)

MSALLGLRPEVQDTCISLGLMLLFVLFVGLARVIARQQLHRPVVHAFVLEFLATFQLCCCTHELQVLSEQ
 DSAHPTWTLTLIYFFSLVHGLTLVGTASNPCGVMMQIMILGGMSPEMGAVRLLAQLVSA LCSRYCISALWS
 LSLTKYHYDERILACRNP IHTDMSKAIIEAICSFIFHSALLHFQEVRTKLRIHLLAALITFLAYAGGSL
 TGALFNPALALSLHFPCFDEL FYKFFVYWLAPSVGVLMILMF SFFLPWLHNNQMTNKKE

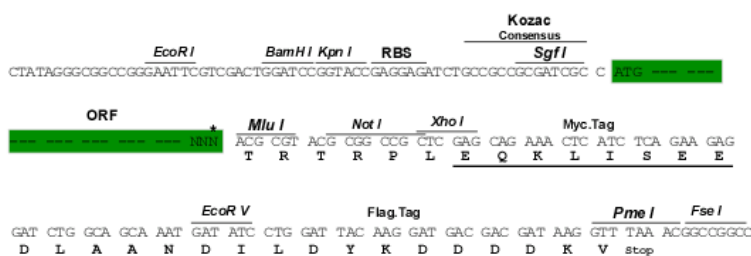
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_175105

ORF Size: 813 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: [NM_175105.3](#), [NP_780314.1](#)

RefSeq Size: 1322 bp

RefSeq ORF: 816 bp

Locus ID: 66333

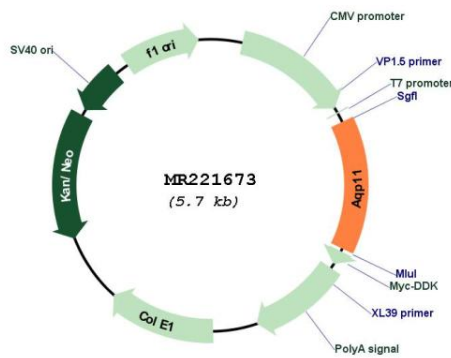
UniProt ID: [Q8BHH1](#)

Cytogenetics: 7 E1

MW: 30.9 kDa

Gene Summary: Aquaporins facilitate the transport of water and small neutral solutes across cell membranes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221673