

Product datasheet for MR226371

Aqp8 (NM_007474) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Aqp8 (NM_007474) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Aqp8
 Synonyms: A1255744; AQP-8
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR226371 representing NM_007474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGGGGAGCAGACACCAATGTGTAGTATGGACCTACCTGAGGTCAAGGTGAAGACCAGCATGGCTG
 GCAGATGCCGTGTCTTGGTATGAGCAATACGTACAACCATGTATAGTGGAACTGTGGGCTCCGCTCT
 CTTTCATCTTCATCGGATGTCTATCGGTCATTGAGAATAGTCCGAATACTGGGCTCCTGCAGCCTGCCTTG
 GCTCATGGGCTGGCCTTGGGGCTCATCATTGCTACCTTGGGGAACATCAGCGGTGGACACTCAACCCTG
 CTGTGTCGCTGGCAGTCACAGTGATCGGAGGCCTCAAGACCATGCTGCTAATCCCTATTGGATCTCCCA
 GCTATTTGGAGGGCTGATTGGGGCTGCCTTGGCTAAAGTGGTGAGTCCAGAGGAAAGATTCTGGAATGCA
 TCTGGGGCAGCCTTTGCCATCGTCCAGGAGCAGGAGCAGGTGGCAGAAGCCCTGGGGATAGAGATCATTC
 TGACAATGCTGTTGGTATTGGCTGTGTGTATGGGTGCTGTCAATGAGAAGACAATGGGCCCTTTAGCCCC
 ATTCTCCATTGGCTTCTCTGTCAATTGTGGACATCCTGGCAGGTGGTAGCATCTCTGGAGCCTGCATGAAC
 CCTGCTCGTGCCTTTGGACCTGCTGTGATGGCTGGCTACTGGGACTTCCATTGGATCTACTGGCTGGGCC
 CCCTCTGGCTGGCCTCTTTGTAGGACTGCTCATTAGGCTCCTCATCGGAGATGAGAAAACCCGCTAAT
 TCTAAAGTCGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR226371 representing NM_007474
Red=Cloning site Green=Tags(s)

```
MSGEQTPMCSMDLPEVKVKTSMAGRCRVFWYEQYVQPCIVELVGSALFIFIGLSVIENSPNTGLLQPAL
AHGLALGLIIATLGNISGGHFNPVAVSLAVTVIGGLKTMLLIPYWISQLFGGLIGAALAKVVSPEERFWNA
SGAAFAIVQEQEVAEALGIEIILTMLLVLAVCMGAVNEKTMGPLAPFSIGFSVIVDILAGGSISGACMN
PARAFGPAVMAGYWDFHWIYWLGPLLAGLFGVLLIRLLIGDEKTRLILKSR
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_h12.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_007474

ORF Size: 783 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_007474.2](#), [NP_031500.1](#)

RefSeq Size: 1486 bp

RefSeq ORF: 786 bp

Locus ID: 11833

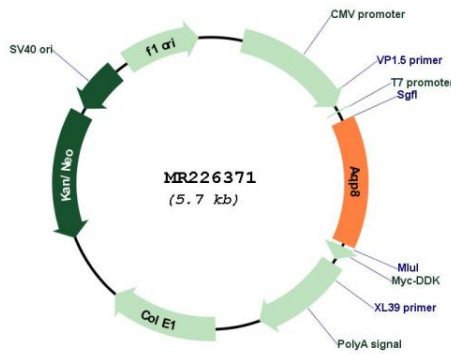
UniProt ID: [P56404](#)

Cytogenetics: 7 F3

MW: 28.2 kDa

Gene Summary: Forms a water-specific channel; mercury-sensitive. Also permeable to urea but not to glycerol.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226371