

Product datasheet for **MG226371**

Aqp8 (NM_007474) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Aqp8 (NM_007474) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Aqp8
 Synonyms: AI255744; AQP-8
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG226371 representing NM_007474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGGGGAGACCAATGTGTAGTATGGACCTACCTGAGGTCAAGGTGAAGACCAGCATGGCTGGCA
 GATGCCGTGTGTTCTGGTATGAGCAATACGTACAACCATGTATAGTGAACTTGTGGCTCCGCTCTCTT
 CATCTTCATCGGATGTCTATCGGTCATTGAGAATAGTCCGAATACTGGGCTCCTGCAGCCTGCCTTGCT
 CATGGCTGGCCTTGGGCTCATCATTGCTACCTTGGGAACATCAGCGTGGACACTTCAACCCTGCTG
 TGTCGCTGGCAGTCACAGTGATCGGAGGCTCAAGACCATGCTGCTAATCCCTATTGGATCTCCAGCT
 ATTTGGAGGGCTGATTGGGCTGCCTTGGCTAAAGTGGTGGTCCAGAGGAAAGATTCTGGAATGCATCT
 GGGCAGCCTTTGCCATCGTCCAGGAGCAGGAGCAGGTGGCAGAAGCCCTGGGGATAGAGATCATTCTGA
 CAATGCTGTTGGTATTGGCTGTGTGTATGGGTGCTGTCAATGAGAAGACAATGGGCCCTTTAGCCCCATT
 CTCCATTGGCTTCTGTGCTATTGTGGACATCCTGGCAGGTGGTAGCATCTCTGGAGCCTGCATGAACCT
 GCTCGTCCTTTGGACCTGCTGTGATGGCTGGCTACTGGACTTCCATTGGATCTACTGGCTGGCCCCC
 TCCTGGCTGGCCTCTTTGTAGGACTGCTCATTAGGCTCCTCATCGGAGATGAGAAAACCCGCTAATTCT
 AAAGTCGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226371 representing NM_007474
 Red=Cloning site Green=Tags(s)

MSGETPMCSMDLPEVKVKTSMAGRCRVFWYEQYVQPCIVELVGSALFIFIGCLSVIENSPNTGLLQPALA
 HGLALGLIATLGNISGGHFNPAVSLAVTVIGGLKTMLLIPYWISQLFGLLIGAALAKVVSPEERFWNAS
 GAAFAIVQEQQVAEALGIEIILTMLLVLAVCMGAVNEKTMGPLAPFSIGF SVIVDILAGGSISGACMNP
 ARAFGPAVMAGYWDFHWIYWLGPLLAGL FVGLLIRLLIGDEKTRLILKSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

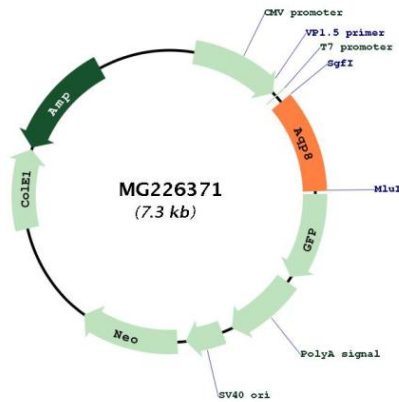
Locus ID: 11833

UniProt ID: [P56404](#)

Cytogenetics: 7 F3

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 MG226371