

Product datasheet for **RG208083**

AQP11 (NM_173039) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AQP11 (NM_173039) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AQP11
Synonyms: AQPX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208083 representing NM_173039
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCCGCTGCTGGGGCTCCGGTCCGAGCTGCAGGACACCTGCACCTCGCTGGGACTGATGCTGTCCG
TGGTGCTGCTCATGGGGCTGGCCCGGTAGTCGCCCGCAGCAGCTGCACAGGCCGGTGGCCACGCCTT
CGTCCTGGAGTTTCTAGCCACCTTCCAGCTCTGCTGCTGCACCCACGAGCTGCAACTGCTGAGCGAACAG
CACCCCGCGCACCCACCTGGACGCTGACGCTCGTCTACTTCTTCTCGTTGTGCATGGCCTGACTCTGG
TGGGCACGTCCAGCAACCCGTGCGGCGTGATGATGCAGATGATGCTGGGGGCATGTCCCCGAGACGGG
TGCGGTGAGGCTATTGGCTCAGCTGGTTAGTGCCCTGTGCAGCAGGTACTGCACAAGCGCCTTGTGGAGC
TTGGGTCTGACCCAGTATCACGTCAGCGAGAGGAGCTTCGCTTGCAAGAATCCCATCCGAGTCGACTTGC
TCAAAGCGGTATCACAGAGGCCGTCTGCTCCTTTCTCTCCACAGCGCTCTGCTGCACTTCCAGGAAGT
CCGAACCAAGCTTCGATCCACCTGCTGGCTGCACTCATCACCTTTTGGTCTATGCAGGAGGAAGTCTA
ACAGGAGCTGTATTTAATCCAGCTTTGGCACTTTCGCTACATTTTCATGTGTTTTGATGAAGCATTCCCTC
AGTTTTTATAGTATACTGGCTGGCTCCTTCTTTAGGTATATTGTTGATGATTTTGTGATGTTTCAGCTTTT
CCTTCCATGGCTGCATAACAACCATAACAATTAATAAAAAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208083 representing NM_173039
 Red=Cloning site Green=Tags(s)

MSPLLGLRSELQDTCTSLGLMLSVVLLMGLARVVARQQLHRPVAHAFVLEFLATFQLCCCTHELQLLSEQ
 HPAHPTWTLTLVYFFSLVHGLTLVGTSSNPCGVMQMMLGGMSPETGAVRLLAQLVSALCSRYCTSALWS
 LGLTQYHVSERSFACKNPIRVDLLKAVITEAVCSFLFHSALLHFQEVRTKLRIHLLAALITFLVYAGGSL
 TGAVFNPALALSLHFMCFDEAFPQFFIVYWLAPSLGILLMILMF SFFLPWLHNNHTINKKE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173039

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_173039.3](#)

RefSeq Size: 1561 bp

RefSeq ORF: 816 bp

Locus ID: 282679

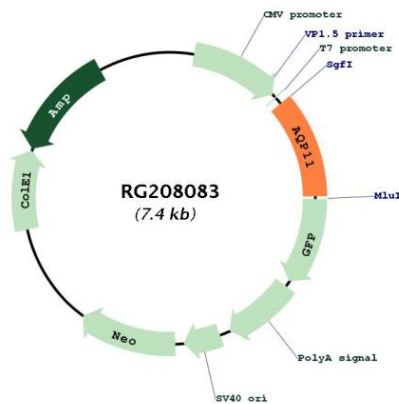
UniProt ID: [Q8NBQ7](#)

Cytogenetics: 11q14.1

Protein Families: Transmembrane

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

Product images:



Circular map for RG208083