

Product datasheet for **RG219668**

Aquaporin 8 (AQP8) (NM_001169) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Aquaporin 8 (AQP8) (NM_001169) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Aquaporin 8 |
| Synonyms: | AQP-8 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG219668 representing NM_001169 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGGAGAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG
GCAGGTGGCGAGTGTCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTGAAGTCTGGGCTCTGCTCT
CTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACTGGGCTGCTGCAGCCGGCCCTG
GCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTG
CGGTGTCCCTGGCAGCCATGCTGATCGGAGGCCCAACCTGGTGTGCTCCTCCCGTACTGGGTCTCACA
GCTGCTCGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCTGAGGAGAGGTTCTGGAATGCA
TCTGGGGCGCCCTTTGTGACAGTCCAGGAGCAGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC
TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCCCTCTGGCCCC
GTTCTCCATCGGCTTTGCCGTACCGTGGATATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAAT
CCC GCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACTGGAATTCCACTGGATCTACTGGCTGGGCC
CACTCTGGCTGGCCTGCTTGTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCAT
CCTGAAGGCTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219668 representing NM_001169
 Red=Cloning site Green=Tags(s)

MSGEIAMCEPEFGNDKAREPSVGGRRVSWYERFVQPCLVELLGSALFIFIGCLSVIENGTDTGLLQPAL
 AHGLALGLVIATLGNISGGHFNPAVSLAAMLIGGLNLVMLLPYWVSQLLGGMLGAALAKAVSPEERFWNA
 SGAAFVTYQEQGVAGALVAEIIITLLALAVCMGAINKTKGPLAPFSIGFAVTVDILAGGPVSGGCMN
 PARAFGPAVVANHWNFWIYWLGPLLAGLLVGLLIRCFIGDGKTRLILKAR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001169

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001169.3](#)

RefSeq Size: 1315 bp

RefSeq ORF: 786 bp

Locus ID: 343

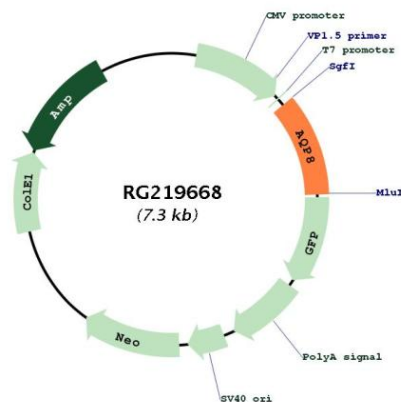
UniProt ID: [O94778](#)

Cytogenetics: 16p12.1

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Aquaporin 8 (AQP8) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 8 mRNA is found in pancreas and colon but not other tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219668