

## Product datasheet for **RG205304**

### Aquaporin 1 (AQP1) (NM\_198098) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aquaporin 1 (AQP1) (NM\_198098) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aquaporin 1  
**Synonyms:** AQP-CHIP; CHIP28; CO  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205304 representing NM\_198098  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCAGCGAGTTCAAGAAGAAGCTCTTCTGGAGGGCAGTGGTGGCCGAGTTCCTGGCCACGACCCTCT  
 TTGTCTTCATCAGCATCGGTTCTGCCCTGGGCTCAAATACCCGGTGGGAACAACCAGACGACGGTCCA  
 GGACAACGTGAAGGTGTCGCTGGCCTTCGGGCTGAGCATCGCCACGCTGGCGCAGAGTGTGGCCACATC  
 AGCGGCGCCACCTCAACCCGGTGTCACTGGGCTGCTGCTCAGCTGCCAGATCAGCATCTTCCGTG  
 CCCTCATGTACATCATCGCCAGTGCCTGGGGCCATCGTCGCCACCGCCATCCTCTCAGGCATCACCTC  
 CTCCTGACTGGGAACCTCGCTTGCCCGCAATGACCTGGCTGATGGTGTGAACTCGGGCCAGGGCCTGGGC  
 ATCGAGATCATCGGGACCTCCAGCTGGTGTATGCGTGTGGTACTACCGACCGAGGCGCCGTGACC  
 TTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTCTGTAGCCCTTGACACCTCCTGGCTATTGACTACAC  
 TGGCTGTGGGATTAACCTGCTCGGTCCTTTGGCTCCGCGGTGATCACACAACTTCAGCAACCACTGG  
 ATTTCTGGGTGGGGCCATTCATCGGGGAGCCCTGGCTGACTCATCTACGACTTCATCTGGCCCCAC  
 GCAGCAGTGACCTCACAGACCGGTGAAGGTGTGGACCAGCGCCAGGTGGAGGAGTATGACCTGGATGC  
 CGACGACATCAACTCCAGGGTGGAGATGAAGCCAAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205304 representing NM\_198098  
 Red=Cloning site Green=Tags(s)

MASEFKKKLFWRAVVAEFLATTLFVVFISIGSALGFKYPVGNQTTVQDNVKVSLAFGLSIATLAQSVGHI  
 SGAHLNPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNLGRNDLADGVNSGQGLG  
 IEIIGTLQLVLCVLATDRRRDLGGSAPLAIGLSVALGHLLAIDYTGCGINPARSFGSAVITHNFSNHW  
 IFWVGPFIGGALAVLIYDFILAPRSSDLTDRVKVWVTSQVVEEYDLDDADDINSRVEMKPK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198098

**ORF Size:** 807 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\\_198098.1](#), [NP\\_932766.1](#)

**RefSeq Size:** 2764 bp

**RefSeq ORF:** 810 bp

**Locus ID:** 358

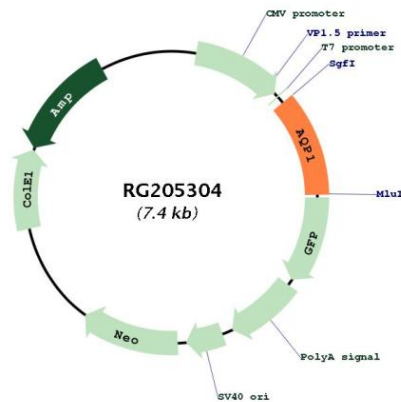
**UniProt ID:** [P29972](#)

**Cytogenetics:** 7p14.3

**Protein Families:** Druggable Genome, Ion Channels: Other, Transmembrane

**Gene Summary:** This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016]

## Product images:



Circular map for RG205304