

Product datasheet for **SC328237**

Aquaporin 1 (AQP1) (NM_001185062) Human Untagged Clone

Product data:

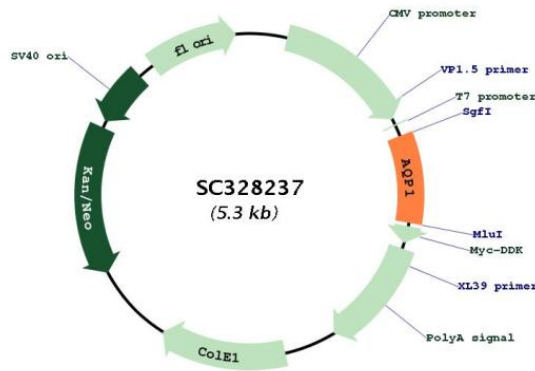
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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Aquaporin 1 (AQP1) (NM_001185062) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | AQP1 |
| Synonyms: | AQP-CHIP; CHIP28; CO |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC328237 representing NM_001185062. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGTCGGGCATGGGGTGAATGTTCTGGACTTTTGGCTGGCTGATGGTGTGAACTCGGGCCAGGGC
CTGGGCATCGAGATCATCGGGACCCTCCAGCTGGTGCTATGCGTGCTGGCTACTACCGACCGGAGGCGC
CGTGACCTTGGTGGCTCAGCCCCCTTGCATCGGCCTCTCTGTAGCCCTGGACACCTCCTGGCTATT
GACTACACTGGCTGTGGGATTAACCTGCTCGGTCTTTGGCTCCGCGGTGATCACACAACTTCAGC
AACCACTGGATTTCTGGGTGGGCCATTATCGGGGAGCCCTGGCTGTACTCATCTACGACTTCATC
CTGGCCCCACGCAGCAGTGACCTCACAGACCGGTGAAGGTGTGGACCAGCGCCAGGTGGAGGAGTAT
GACCTGGATGCCGACGACATCAACTCCAGGGTGGAGATGAAGCCAAATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:


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|------------------------|--|
| ACCN: | NM_001185062 |
| Insert Size: | 465 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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). |

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| Reconstitution Method: | <ol style="list-style-type: none">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: | <u>NM_001185062.1</u> |
| RefSeq Size: | 2434 bp |
| RefSeq ORF: | 465 bp |
| Locus ID: | 358 |
| Cytogenetics: | 7p14.3 |
| Protein Families: | Druggable Genome, Ion Channels: Other, Transmembrane |
| MW: | 16.7 kDa |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (4) has a shorter and distinct N-terminus compared to isoform 1.</p> |