

## Product datasheet for SC316921

### AQP12B (NM\_001102467) Human Untagged Clone

#### Product data:

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                        |
| Product Name:             | AQP12B (NM_001102467) Human Untagged Clone                                                 |
| Tag:                      | Tag Free                                                                                   |
| Symbol:                   | AQP12B                                                                                     |
| Synonyms:                 | INSSA3                                                                                     |
| Mammalian Cell Selection: | Neomycin                                                                                   |
| Vector:                   | pCMV6-Entry (PS100001)                                                                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                       |
| Fully Sequenced ORF:      | >SC316921 representing NM_001102467.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGCAGGTCTTAACGTGTCCCTCTCCTTCTTTGCCACCTTCACCCTCTGTGAGGCAGCCAGGCGG  
 GCCTCCAAGGCCCTGCTCCAGTGGCGCCTATGAAGTCTTCGCCGGGAGGCGGTGGGCGCGGTGCAG  
 CTCGGGGCCTGCTTCTGGAGATGAGGACGCTGGTCGAGCTCGGGCCCTGGGCTGGGACTTTGGGCCT  
 GACCTGCTGCTCACCTGCTCTTCTGCTCTTCTGGCGACGGGGTCACCTTGGACGGGGCCTCGGCC  
 AACCCACCGTGTCCCTGCAGGAGTTCTCATGGCCGAGGAGTCTCTGCCTGGCACGCTGCTGAAGCTG  
 GCGGCACAGGGGCTGGGCATGCAGGCCGCTGCACCCTGACGCGCCTCTGCTGGGCTGGGAGCTCAGT  
 GACCTGCACCTGCTGCAGAGCCTCATGGCCAGAGCTGCAGCTCGGCCCTGCGCACATCCGTGCCCCAC  
 GGGGCGCTTGTGGAGGCCGCTGCGCCTTTTGTTCATCTGACCCTCCTGCACCTGCGGCACAGTCCT  
 CCCGCCTACAGCGGGCCCGCTGTGGCTCTGTTGGTCACCGTCACGGCCTACACGGCCGGGCCCTTACG  
 TCTGCCTTCTTAACCTGCCCTGGCCGCTCTGTGACCTTTGCCTGCTCGGGACACACCTTACTGGAG  
 TACGTGCAGGTGTACTGGCTGGGCCCTCTGACAGGGATGGTCTGGCTGTGCTGCTGCACCAGGGCCGC  
 CTTCCACCTTTTCCAGAGGAACCTGTTCTACGGCCAGAAGAACAAGTACCGAGCACCCGAGGGAAG  
 CCGGCCCCGGCCTCAGGGGACACCCAGACCCCTGCAAAGGGGTCCAGTGTCCGGGAGCCTGGGCGCAGT  
 GGTGTTGAGGGGCCACATTCCAGCTGA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

|                    |              |
|--------------------|--------------|
| Restriction Sites: | SgfI-MluI    |
| ACCN:              | NM_001102467 |
| Insert Size:       | 924 bp       |


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | 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.                                                                                                                                                                                                                                                      |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_001102467.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1138 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 924 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 653437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u><a href="#">A6NM10</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 2q37.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MW:</b>                    | 32.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | Aquaporins facilitate the transport of water and small neutral solutes across cell membranes. [UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                           |