

## Product datasheet for **SC303924**

### Aquaporin 0 (MIP) (NM\_012064) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aquaporin 0 (MIP) (NM\_012064) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Aquaporin 0  
**Synonyms:** AQP0; CTRCT15; LIM1; MIP26; MP26  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL6  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_012064 edited  
 GTAGCAGGGACCCAGGCAGTGTGACCATCCCCCTGCCATGTGGGAACTGCGATCAGCCT  
 CCTTTTGGAGGGCCATATTCGCTGAGTTCTTTGCCACCCTCTTCTATGTCTTCTTTGGC  
 TGGGGTCCCTCACTGCGCTGGGCTCCTGGACCCCTGCATGTTCTGCAGGTGGCTATGGCAT  
 TTGGCTTGGCCCTGGCTACACTGGTGCAGTCTGTGGGCCACATCAGTGGAGCCCACGTCA  
 ATCCTGCAGTCACTTTTGTCTTCTTGTGGGCTCCAGATGTCCCTGCTCCGTGCCTTCT  
 GCTATATGGCAGCCCAGCTCCTGGGAGCTGTGGCTGGGGCCGCTGTGCTGTATAGCGTTA  
 CCCCACCTGCTGTCCGAGGAAACCTAGCACTCAACACGTTGCACCCTGCGGTGAGCGTGG  
 GCCAGGCAACCACAGTGGAGATCTTCTGACGCTCCAGTTCGTGCTCTGCATCTTTGCCA  
 CATAACGACGAGAGCGGAATGGCCAACCTGGGCTCCGTGGCCCTGGCCGTTGGCTTCTCCC  
 TTGCCCTGGGGCACCTCTTTGGGATGTATTATACTGGTGCAGGCATGAATCCTGCCCGCT  
 CCTTTGCTCCTGCCATTCTCACTGGGAACCTCACTAACCCTGGGTGACTGGGTAGGCC  
 CAATCATTGGAGGGGTCTGGGCAGCCTCCTGTACGACTTCTTCTTCCCCCGGCTCA  
 AGAGTATTTCTGAGAGACTGTCTGTCTCAAGGGTGCCAAACCCGATGTCTCCAATGGAC  
 AACCAGAGGTCACAGGGGAACCTGTTGAACTGAACACCCAGGCCCTGTAGAAGCTCCAGC  
 TGAATAGAGGGAGTAGAAAGCTTCTGAGTTTACGTGGAGGGGTTAGCCAGCCCCTAGAT  
 GAAGAAAGAGACTGTGGGGAGGGGCATGTACTTC

**Restriction Sites:** Please inquire

**ACCN:** NM\_012064

**Insert Size:** 900 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).



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<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_012064.2.
<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>	<a href="#">NM_012064.2</a> , <a href="#">NP_036196.1</a>
<b>RefSeq Size:</b>	2004 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	4284
<b>UniProt ID:</b>	<a href="#">P30301</a>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	Major intrinsic protein is a member of the water-transporting aquaporins as well as the original member of the MIP family of channel proteins. The function of the fiber cell membrane protein encoded by this gene is undetermined, yet this protein is speculated to play a role in intracellular communication. The MIP protein is expressed in the ocular lens and is required for correct lens function. This gene has been mapped among aquaporins AQP2, AQP5, and AQP6, in a potential gene cluster at 12q13. [provided by RefSeq, Jul 2008]