

Product datasheet for **RC229711**

Aquaporin 1 (AQP1) (NM_001185061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 1 (AQP1) (NM_001185061) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AQP1
Synonyms:	AQP-CHIP; CHIP28; CO
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229711 representing NM_001185061 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTGGACTTTTGGGTATGAAGCCGTGCCCTGCTGGGCCCTCCACCTTTTGCATCTCTTCTCC
TAGGAGTGCTCCTGACCATCACCTTCATGCCTGGGGCTCGCCCCTGCCTCTGGTCTTGGTACCCAGAA
TACCCTGGCCTGGATGCAGCTGGATGCAAAGGCCCCAGCTCACCCAGGCCTCTCCAGCTTCTAGGCAGA
GTGGGGCCTGGGTCTAGGCAGCTGGCTGATGGTGTGAAGTCCGGCCAGGGCCTGGGCATCGAGATCATCG
GGACCCTCCAGCTGGTGCTATGCGTGCTGGCTACTACCGACCGGAGGCGCCGTGACCTTGGTGGCTCAGC
CCCCCTTGCCATCGGCCTCTCTGTAGCCCTTGACACCTCCTGGCTATTGACTACACTGGCTGTGGGATT
AACCTGCTCGGTCTTTGGCTCCGCGGTGATCACACAACTTCAGCAACCACTGGATTTTCTGGGTGG
GGCCATTCATCGGGGAGCCCTGGCTGTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGACCT
CACAGACCGCGTGAAGGTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATCAAC
TCCAGGGTGGAGATGAAGCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC229711 representing NM_001185061
 Red=Cloning site Green=Tags(s)

MFWTFGYEAVSPAGPSHLFASLLLVLLTITFMPGARPLPLVLPQNTLAWMQLDAKAPAHPRPLQLLGR
 VGPGSRQLADGVNSGQGLGIEIIGTLQLVLCVLATDTRRRDLGGSAPLAIGLSVALGHLLAIDYTGGI
 NPARSFGSAVITHNFSNHWIFWVGPFIGGALAVLIYDFILAPRSSDLTRVKVWTSQGQVEEYDLADDIN
 SRVEMKPK

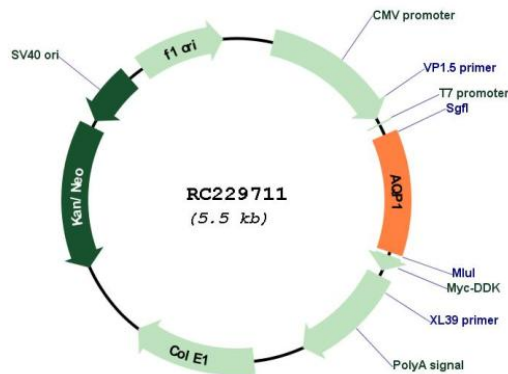
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001185061

ORF Size: 654 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001185061.1, NP_001171990.1</p>
RefSeq ORF:	<p>657 bp</p>
Locus ID:	<p>358</p>
Cytogenetics:	<p>7p14.3</p>
Protein Families:	<p>Druggable Genome, Ion Channels: Other, Transmembrane</p>
MW:	<p>23.9 kDa</p>
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>