

Product datasheet for SC113060

Aquaporin 9 (AQP9) (NM_020980) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 9 (AQP9) (NM_020980) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aquaporin 9
Synonyms:	AQP-9; HsT17287; SSC1; T17287
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113060 sequence for NM_020980 edited (data generated by NextGen Sequencing)

```
ATGCAGCCTGAGGGAGCAGAAAAGGAAAAAGCTTCAAGCAGAGACTGGTCTTGAAGAGC
AGCTTAGCGAAAAGAAACCCTCTCTGAGTCTTGGGCACGTTTCATCTTGATTGTCCTTGG
TGTGGCTGTGTTGCCAAGCTATTCTCAGTCGAGGACGTTTTGGAGGGGTGATCACTATC
AATGTTGGATTTTCAATGGCAGTTGCAATGGCCATTTATGTGGCTGGCGGTGTCTCTGGT
GGTCACATCAACCCAGCTGTGTCTTTAGCAATGTGTCTTTGGACGGATGAAATGGTTC
AAATTGCCATTTTATGTGGGAGCCAGTCTTGGGAGCCTTTGTGGGGGCTGCAACCGTC
TTTGGCATTACTATGATGGACTTATGCCTTTGCTGGTGGAAAAGTCTGATCGTGGGA
GAAAATGCAACAGCACACATTTTGAACATACCCAGCTCCGTATCTATCTCTGGCGAAC
GCATTTGCAGATCAAGTGGTGGCCACCATGATACTCCTCATAATCGTCTTTGCCATTTT
GACTCCAGAAACTTGGGAGCCCCAGAGCCCTAGAGCCATTGCCATCGGCCTCCTGATT
ATTGTCATTGCTTCTCCCTGGGACTGAACAGTGGCTGTGCCATGAACCCAGCTCGAGAC
CTGAGTCCCAGACTTTTCACTGCCTTGGCAGGCTGGGGGTTTGAAGTCTTCAAGAGCTGGA
AACAACTTCTGGTGGATTCTGTAGTGGGCCCTTTGGTTGGTGTGTCATTGGAGGCCTC
ATCTATGTTCTTGTGATTGAAATCCACCATCCAGAGCCTGACTCAGTCTTTAAGGCAGAA
CAATCTGAGGACAAACCAGAGAAATATGAACTCAGTGTGCATCATGTAG
```

Clone variation with respect to NM_020980.3
537 c=>t;835 a=>g



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020980 unedited
 GTCGGAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACCANAAAGCAGCGAA
 CAGGGAATGACAGTTCCACCAGAAGACGATTAAGCCACAGCCTCTAATTGGAACGGCATT
 TGTACAGTCAGAGACTCTTACCAGACATCTCCAGGAATCTGTGAGCCATTGTCAAACGT
 CCATTTTCATCTGGCTGTGAAAGTGAGGACCACAACAGGTAGGTATTGGTAGAAACAGGA
 GTCCTCAGAGAAGCCCCAAGATGCAGCCTGAGGGAGCAGAAAAGGAAAAAGCTTCAAGC
 AGAGACTGGTCTTGAAGAGCAGCTTAGCGAAAGAAACCCCTCTGAGTTCTTGGGCACGT
 TCATCTTGATTGCCTTGGATGTGGCTGTGTTGCCAAGCTATTCTCAGTCGAGGACGTT
 TTGGAGGGGTCACTACTCAATGTTGGATTTTCAATGGCAGTTGCAATGGCCATTTATG
 TGGCTGGCGGTGTCTCTGGTGGTCACATCAACCCAGCTGTGTCTTTAGCAATGTGTCTCT
 TTGGACGGATGAAATGGTTCAAATTGCCATTTTATGTGGGAGCCAGTCTTGGGAGCCT
 TTGTGGGGGTGCAACCGTCTTTGGCATTACTATGATGGACTTATGTCCTTTGCTGGTG
 GAAAACCTGCTGATCGTGGGAGAAAATGCAACAGCACACATTTTGAACATACCCAGCTC
 CGTATCTATCTCTGGCGAACGCATTTGCAGATCAAGTGGTGGCCACCATGATACTCTCA
 TAATCGTCTTTGCCATTTTGTACTCCAGAACTGGGAGCCCCCAGAGGCTAGAGCCCA
 TTGNNCATCGCCTNNCTGATATTGNCATTGCTTNCCTCCCTGGNGACTGACAGTGGNCTGT
 GCCATGAACCCAGCTCGAGAAGTGAAGTCCAGACTTTTCACTGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020980 unedited
 NNTTTGACTCTGGACCGCGNCCGCATNCNANGATCGNGTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTCCAACAATGACCGACACTTTTTTTTTTCAAATAGGAAATATCCAGG
 TAGCTTCAAACCAAAAAAAAAAACCCGTTTGCCTTAAATGGTAAAACATAAGTCATC
 AAAACATTTACATTTAATTTCTGCTGTCTGATATCAGCCAAAGCAGTGGGGAAACC
 TAATGCCTTGGGAATTCTGGGCTTTTTGACAGTTTGACTGAAGGGGCATCCCTTGATGT
 AAAGCATCCCCTGGGGCTTGTAACCTCATAGCGATCTTTTGTCAAAGTAACATTTTTTA
 AAAAECTTCAGGGGAAAAAACTGACCCAAAGGAAATCCCTGAATGTAATGTTGGGGGC
 TGGCAGGAACCAAGATCAAGACTTACCAAGACCAGAGGGGGCTTAGGAAGGGAGGCCTTC
 TCATAATGTTTTTTCAGCAAAATGAAAGTTATGATTAATGGCTACCACTTTCTTCATCGT
 GCCTCAGAAAGGGGGGAATAAACCCAAACAATGAGGGTCTTTGTATCTTAAAATTGAGG
 AACATTTTGTCCAGAGGGGTACATATTCTAAAAGCTGCCAATTCACCTTCTGGCTAGCAA
 GGAAAAATTTGGCAAAGATTCTCAGCCAGCTACTGATCTTCTGAAAGGTAGAGGAATGCAT
 TAAATAACATTTCAACTTTCAGTGTGCTCTTGGACAACCTCACTTATCTTCCCTAAGAATT
 TGNTTCTTTATCTGAAAATGGGGCATGGGGCATTGGCCCTCACATGGCCTTATGAGGAT
 TAAATANATAATGGGTGGGGAAAGGGCCTGGGGAATTNGTTAGCCATAAGTTATTATCT
 TTTGAAACCTCCACTTTGGAAATCAGCTAAACCAGGATCCAGGGNTTTTACATTTTGGC
 TCTAG

Restriction Sites:

NotI-NotI

ACCN:

NM_020980

Insert Size:

2880 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).

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:	<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:	NM_020980.2 , NP_066190.1
RefSeq Size:	2948 bp
RefSeq ORF:	888 bp
Locus ID:	366
UniProt ID:	O43315
Cytogenetics:	15q21.3
Domains:	MIP
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>The aquaporins are a family of water-selective membrane channels. This gene encodes a member of a subset of aquaporins called the aquaglyceroporins. This protein allows passage of a broad range of noncharged solutes and also stimulates urea transport and osmotic water permeability. This protein may also facilitate the uptake of glycerol in hepatic tissue . The encoded protein may also play a role in specialized leukocyte functions such as immunological response and bactericidal activity. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>