

Product datasheet for SC117030

Aquaporin 3 (AQP3) (NM_004925) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 3 (AQP3) (NM_004925) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aquaporin 3
Synonyms:	AQP-3; GIL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117030 sequence for NM_004925 edited (data generated by NextGen Sequencing)

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ATGGGTCGACAGAAGGAGCTGGTGTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGG
CTGCTCCGACAGGCGCTGGCCGAGTGCCTGGGGACCCTCATCCTGGTGATGTTTGCTGT
GGCTCCGTGGCCAGGTTGTGCTCAGCCGGGGACCCACGGTGGTTTCCTCACCATCAAC
CTGGCCTTTGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGGGGCC
CACCTGAACCCTGCCGTGACCTTTGCCATGTGCTTCTGGCTCGTGAGCCCTGGATCAAG
CTGCCCCATCTACACCCTGGCACAGACGCTGGGAGCCTTCTGGGTGCTGGAATAGTTTTT
GGGCTGTATTATGATGCAATCTGGCACTTCGCCGACAACCAGCTTTTTGTTTCGGGCCCC
AATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGCACTTGGATATGATCAATGGC
TTCTTTGACCAGTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGTTGAC
CCCTACAACAACCCCGTCCCCCGAGGCCTGGAGGCCTTACCCTGGGCCTGGTGGTCCTG
GTCATTGGCACCTCCATGGGCTTCAACTCCGGCTATGCCGTCAACCCTGCCCGGGACTTT
GGCCCCCGCCTTTTTACAGCCCTTGC GGCTGGGGCTCTGCAGTCTTACGACCGGCCAG
CATTGGTGGTGGGTGCCCATCGTGTCCCACTCCTGGGCTCCATTGCGGGTGTCTTCGTG
TACCAGCTGATGATCGGCTGCCACCTGGAGCAGCCCCACCCTCCAACGAGGAAGAGAAT
GTGAAGCTGGCCATGTGAAGCACAAGGAGCAGATCTGA

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Clone variation with respect to NM_004925.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004925 unedited
 GCAGCATATTTGTAATACGACTTACGTATAGGGCGGCCGGAATTCGCACCAGCCTCCCG
 CCACCCCTGCCCGCCCGACAGCGCCGCGCTGCCCGCCATGGGTGACAGAAGGAGCT
 GGTGTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGC
 CGAGTGCCTGGGACCCATCCTGCTGATGTTTGGCTGTGGCTCCGTGGCCAGTTGT
 GCTCAGCCGGGGACCCACGGTGGTTTCTCACCATCAACCTGGCCTTTGGCTTTGCTGT
 CACTCTGGGCATCCTCATCGCTGGCCAGTCTCTGGGGCCACCTGAACCTGCCGTGAC
 CTTTGCCATGTGCTTCTGGCTCGTGAGCCCTGGATCAAGCTGCCATCTACACCTGGC
 ACAGACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAAT
 CTGGCACTTCGCCGACAACCAGCTTTTTGTTTCGGGCCCAATGGCACAGCCGGCATCTT
 TGCTACCTACCCCTCTGGCACTTGATATGATCAATGGCTTCTTTGACCAGTTCATAGG
 CACAGCCTCCCTATCGTGTGTGTGCTGGCCATTGTTGACCCCTACAACAACCCGTCCT
 CCGAGGCTGGAGCCTTACCGTGGGCTGGTGGTCTGGTATTGGCACCTCCATGGG
 CTTCAACTCCGGCTATGCCGTCAACCTGCCCGGACTTTGGCCCCGCCTTTTACAGC
 CCTTGGGGCTGGGGCTCTGAGTCTTACGACCGGCCAGCATTGGTGGTGGGTGCCAT
 CGTGNTCCCATCCTGGGCTCATTGCGGNTGTCCTCGTGTCCAACCTGATGATCGGCTGCCA
 CCTGNAGCAGCCCCACCTCCACGAGAAGAAATGTGAGCTGGCCATGTGAGCCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004925 unedited
 NCGTCTTTATGNACCGCGCCGATTCTANGATCGATTTTTTTTTTTTTTTTTTATGGCACA
 TATTTATTTATTTTTTAAATAAAAAGTAAAAGAGTACATTGGTTGAGTAGAGGATTA
 AAGGAGTGACGACCTTTCTAAAGTGGGTCTCCATCCCGATCCCTAAGACTGTAACA
 TCTGCTACATACATTAATAAACAACAAAACAAAAGCAAACATGAACTTATGACCTGAC
 TTAACCTCCACCTTCATGCCTGCATTATGACAGAAACAGTCCCACTGCTCCTACTTATG
 TATGTACATCCAGAGCTCCAAACCTAAGCTGTGGCCCCCTCCTCCAGCCCTACCCACAT
 CCACCCTACTTCCAAAAGCCTGTAGAAGCCCCCACTTAGAAAAAAGGCAGACATACAC
 ATACACAGAAACATATCTATCTGCAGCTCCTCCATGTGAAGCCCTGAAACATACACA
 CCCTGGAATTTCTCTCTTATGCACAGATGGACAGGCTGCCTTCCCCTGTCTCTGGGC
 TCCCCAATAGCCAGAATCCCTCCGACTGGTCCCTTGCCTGAATATCTGGGAACCCCC
 CCCCCAACACACACCCCTGCACACACATGCACACACATGCACACACATGCACACACAC
 ATACCTGTGCCATTCTTTCCCTTGGGAGACAAAGGATGTATTGACCCAAATTCCTGT
 TCCACCCAGCTTAGGGCAGTGGCCTAAGGTGCTATTTGGGCAAAGTCCAGTGAAATCCT
 GAAGGGGCTGTCTCGTGGGTGAGGGTAGATAGGGAGCTCCTTACCCGAAAAGGTGGATC
 GTGAAGGGCCTCTTGGNAGTGGCCCTG

Restriction Sites:

NotI-NotI

ACCN:

NM_004925

Insert Size:

2000 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_004925.3 , NP_004916.1
RefSeq Size:	1835 bp
RefSeq ORF:	879 bp
Locus ID:	360
UniProt ID:	Q92482
Cytogenetics:	9p13.3
Domains:	MIP
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>