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Product datasheet for SC322406

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for SC322406
CCCCTGCCCGCCCGACAGCGCCGCCGCCTGCCCCGCCATGGGTCGACAGAAGGAGCTGGT
GTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGA
GTGCCTGGGGACCCTCATCCTGGTGATGTTTGGCTGTGGCTCCGTGGCCCAGGTTGTGCT
CAGCCGGGGCACCCACGGTGGTTTCCTCACCATCAACCTGGCCTTTGGCTTTGCTGTCAC
TCTGGGCATCCTCATCGCTGGCCAGGTCTCTGGGGCCCACCTGAACCCTGCCGTGACCTT
TGCCATGTGCTTCCTGGCTCGTGAGCCCTGGATCAAGCTGCCCATCTACACCCTGGCACA
GACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTG
GCACTTCGCCGACAACCAGCTTTTTGTTTCGGGCCCCAATGGCACAGCCGGCATCTTTGC
TACCTACCCCTCTGGACACTTGGATATGATCAATGGCTTCTTTGACCAGTTCATAGGCAC
AGCCTCCCTTATCGTGTGTGTGCTGGCCATTGTTGACCCCTACAACAACCCCGTCCCCCG
AGGCCTGGAGGCCTTCACCGTGGGCCTGGTGGTCCTGGTCATTGGCACCTCCATGGGCTT
CAACTCCGGCTATGCCGTCAACCCTGCCCGGGACTTTGGCCCCCGCCTTTTTACAGCCCT
TGCGGGCTGGGGCTCTGCAGTCTTCACGACCGGCCAGCATTGGTGGTGGGTGCCCATCGT
GTCCCCACTCCTGGGCTCCATTGCGGGTGTCTTCGTGTACCAGCTGATGATCGGCTGCCA
CCTGGAGCAGCCCCCACCCTCCAACGAGGAAGAGAATGTGAAGCTGGCCCATGTGAAGCA
CAAGGAGCAGATCTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCCCTGGCCTTGAGC
ATCCACTGACTGTCCAAGGGCCACTCCCAAGAAGCCCCCTTCACGATCCACCCTTTCAGG
CTAAGGAGCTCCCTATCTACCCTCACCCCACGAGACAGCCCCTTCAGGATTTCCACTGGA
CCTTGCCCAAATAGCACCTTAGGCCACTGCCCCTAAGCTGGGGTGGAACCGGAATTTGGG
TCAATACATCCTTTTGTCTCCCAAGGGAAGAGAATGGGCAGCAGGTATGTGTGTGTGTGC
ATGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGGGGGGGGTTCCCA
GATATTCAGGGCAAGGGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCCAGAGACA
GGGGAAGGCAGCCTGTCCATCTGTGCATAAGGAGAGGAAAGTTCCAGGGTGTGTATGTTT
CAGGGGCTTCACATGGAGGAGCTGCAGATAGATATGTGTTTCTGTGTATGTGTATGTCTG
CCTTTTTTTTCTAAGTGGGGGCTTCTACAGGCTTTTGGGAAGTAGGGTGGATGTGGGTAGG
GCTGGGAGGAGGGGGCCACAGCTTAGGTTTGGAGCTCTGGATGTACATACATAAGTAGGA
GCAGTGGGACGTGTTTCTGTCATAATGCAGGCATGAAGGGTGGAGTGAAGTCAGGTCATA
AGTTTCATGTTTGCTTTTGTTTTGTTTTGTTTTTAATGTATGTAGCAGATGTTACAGTCT
TAGGGATCCGGGATGGGAGACCCCACTTTAGAAAGGGTCGTCACTCCTTTAATCCTCTAC
TCAACAATGTACTCTTTTACTTTTATATTAAAAAAAATAAAATAAATATGTGCCTAAAAA
AAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_004925

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).

OTI Annotation: 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.

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:	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:	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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).