

Product datasheet for MR203566

Aqp1 (NM_007472) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp1 (NM_007472) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aqp1
Synonyms:	CHIP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203566 representing NM_007472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGTCAAATCAAGAAGAAGCTCTTCTGGAGGGCTGTGGTGGCTGAGTTCCTGGCCATGACCCCTCT
TCGTCTTCATCAGCATTGGTTCTGCCCTAGGCTTCAATTACCCACTGGAGAGAAACCAGACGCTGGTCCA
GGACAACGTGAAGGTGTCGCTGGCCTTTGGTTTGAGCATCGCTACTCTGGCCAAAGTGTGGGTACATC
AGCGGTGCTCACCTCAACCCTGCGGTCACTGGGCTCCTGCTCAGCTGTCAGATCAGCATCCTCCGGG
CTGTCATGTACATCATCGCCAGTGTGTGGGAGCCATCGTCGCCACGGCCATTCTCTCGGGCATCACCTC
CTCCCTAGTCGACAATCACTTGGCCGCAATGACCTGGCTCACGGTGTGAACTCTGGCCAGGGCCTGGGC
ATTGAGATCATTGGCACTCTGCAGCTGGTACTGTGCGTTCCTGGCCACCACTGACCGGAGGCGCCGAGACT
TAGGTGGCTCAGCCCCGCTTGCCATTGGCTTGTCTGTGGCCCTTGACACCTGCTGGCGATTGACTACAC
TGGCTGCGGATCAACCCTGCCCGGTCAATTTGGCTCTGCTGTGCTCACCCGCAACTTCTCAAACCACTGG
ATTTTCTGGGTGGGGCCGTTTATTGGGGTGGCCCTGGCAGTGCTCATCTATGACTTATCCTGGCCCCAC
GCAGCAGCGACTTCACAGACCGCATGAAGGTGTGGACCACTGGCCAGGTGGAGGAGTATGACCTGGATGC
TGACGACATCAACTCCAGGGTGGAGATGAAGCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203566 representing NM_007472
Red=Cloning site Green=Tags(s)

MASEIKKKLFWRAVVAEFLAMTLFVVISIGSALGFNYPLERNQTLVQDNVKSLSLAFGLSIATLAQSVGHI
 SGAHLNPAVTLGLLLSCQISILRAVMIYIAQCVAIVATAILSGITSSLVDNSLGRNDLAHGVNSGQGLG
 IEIIGTLQLVLCVLATDRRRDLGGSAPLAIGLSVALGHLLAIDYTGCCINPARSFGSAVLTRNFSNHW
 IFWVGPFIGGALAVLIYDFILAPRSSDFDRMKVWTSGQVEEYDLDDADDINSRVEMKPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9026_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007472

ORF Size: 807 bp

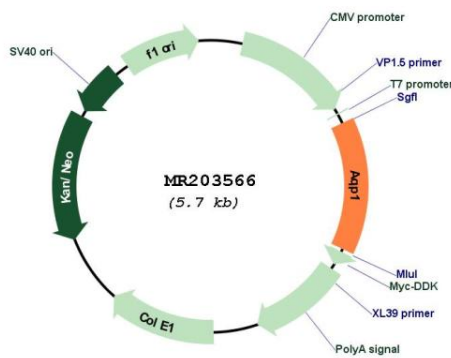
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_007472.2</u> , <u>NP_031498.1</u>
RefSeq Size:	2760 bp
RefSeq ORF:	810 bp
Locus ID:	11826
UniProt ID:	<u>Q02013</u>
Cytogenetics:	6 27.38 cM
MW:	29.2 kDa
Gene Summary:	Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203566