

Product datasheet for **RR203590**

Aqp1 (NM_012778) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp1 (NM_012778) Rat 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:	>RR203590 representing NM_012778 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCGAAATCAAGAAGAAGCTCTTCTGGAGGGCTGTGGTGGCTGAGTTCCTGGCCATGACCCCTCT
TCGTCTTCATCAGCATCGGTTCTGCCCTAGGCTTCAATTACCCACTGGAGAGAAACCAGACGCTGGTCCA
GGACAAATGTGAAGGTGTCACCTGGCCTTTGGTCTGAGCATCGCTACTCTGGCCAAAGTGTGGGTACATC
AGTGGTGTCTCACCTCAACCCAGCGGTCACTGGGGCTTCTGCTCAGCTGTCAGATCAGCATCCTCCGGG
CTGTCATGTATATCATCGCCAGTGTGTGGGAGCCATCGTTGCCCTCCGCCATCCTCTCCGGCATCACCTC
CTCCCTGCTCGAGAACTCACTTGCCGAAATGACCTGGCTCGAGGTGTAACCTCCGGCCAGGGCCTGGGC
ATTGAGATCATTGGCACCTGCAGCTGGTGTGTGCGTTCTGGCTACCACTGACCGGAGGCGCCGAGACT
TAGGTGGCTCAGCCCCACTTGCCATTGGCTTGTCTGTGGCTCTTGGACACCTGCTGGCCATTGACTACAC
TGGCTGTGGGATCAACCTGCCCGGTCAATTTGGCTCTGCTGTGCTCACCCGCAACTTCTCAAACCACTGG
ATTTTCTGGGTGGGACCATTCATTGGGAGTGCCCTGGCAGTGTGATCTATGACTTATCCTGGCCCCAC
GCAGCAGCGACTTACAGACCGCATGAAGGTGTGGACCAAGTGGCAAGTGGAGGAGTATGACCTGGATGC
TGATGATATCAACTCCAGGGTGGAGATGAAGCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203590 representing NM_012778
Red=Cloning site Green=Tags(s)

MASEIKKKLFWRAVVAEFLAMTLFVFFISIGSALGFNYPLERNQTLVQDNVKVSLAFGLSIATLAQSVGHI
 SGAHLNPVTLGLLLSCQISILRAVMIYIAQCVGAIVASAILSGITSSLLENSLGRNDLARGVNSGQGLG
 IEIIGTLQLVLCVLATDRRRDLGGSAPLAIGLSVALGHLLAIDYTGCGINPARSFGSAVLTRNF SNHW
 IFWVGPFIGSALAVLIYDFILAPRSSDFDRMKVWVTSQVVEEYDLADDDINSRVEMKPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_012778

ORF Size: 807 bp

OTI Disclaimer: 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:

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_012778.1](#), [NP_036910.1](#)

RefSeq Size: 2623 bp

RefSeq ORF: 810 bp

Locus ID: 25240

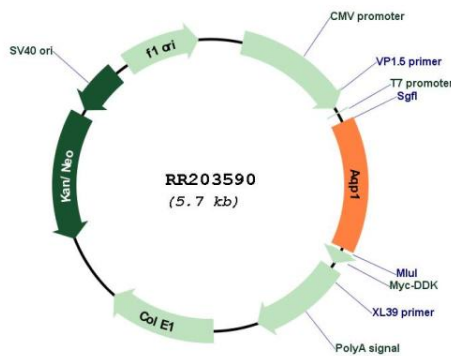
UniProt ID: [P29975](#)

Cytogenetics: 4q24

MW: 28.9 kDa

Gene Summary: integral membrane protein that is a major water transport molecule in the kidney proximal tubule and red blood cells [RGD, Feb 2006]

Product images:



Circular map for RR203590