

Product datasheet for **RR204601**

Aqp3 (NM_031703) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aqp3 (NM_031703) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aqp3
Synonyms: MGC156623
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204601 representing NM_031703
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGTCGACAGAAGGAGTTGATGAACCGTTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTTCGCC
AGGCTCTGGCGGAGTGCCTGGGACCCTCATCCTTGATGTTTCGGCTGTGGTCCGTGGCTCAAGTGGT
GCTCAGCCGAGGGACCCATGGTGGCTTCCTCACCATCAACTTGGCTTTTGGCTTCGCTGTCACCCTTGCC
ATCTTGGTGGCTGGCCAAGTGTCTGGAGCCCACTTGAACCCTGCTGTGACCTTTGCAATGTGCTTCTCGG
CAGGAGGCCCTGGATCAAGCTGCCCATCTACACACTGGCACAGACCCTCGGGGCCCTTCTGGGTGCTGG
GATTGTTTTGGGCTCTACTATGATGCAATCTGGGCTTTGCTGGCAATGAGCTTGTGTCTCCGGCCCC
AATGGCACAGCTGGTATCTTTGCCACCTATCCCTCTGGACACTTGGATATGGTCAATGGCTTCTTTGATC
AGTTCATAGGCACAGCAGCCCTTATTGTGTGTGTGCTGGCCATTGTTGACCCTTATAACAACCCTGTGCC
CCGGGGCCTGGAGGCCTTCACTGTGGCCCTTGTGGTCTGGTCAATGGGACCTCCATGGGCTTCAATTCT
GGCTATGCCGTCACCCAGCTCGTGACTTGGACCTCGCCTTTTCACTGCCCTGGCTGGCTGGGGTTCAG
AAGTCTTTACGACTGGCAGAAGTGGTGGTACCCATCGTCTCTCCACTCTGGGTTCCATTGGTGG
TGTCTTCGTGTACCAGCTCATGATTGGCTGCCACCTGGAGCAGCCCCGCCTTCCACTGAGGCAGAGAAT
GTGAAGCTGGCCACATGAAGCACAAGGAGCAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204601 representing NM_031703
 Red=Cloning site Green=Tags(s)

MGRQKELMNRCGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVVL SRGTHGGFLTINLAFGFAVTLA
 ILVAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLAGFLGAGIVFGLYYDAIWAFAGNELVVSGP
 NGTAGIFATYPSGHLDMVNGFFDQFIGTAALIVCVLAI VDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNS
 GYAVNPARDFGPRLFTALAGWGSEVFTTGQNWVVPIVSPLLGSIGGVFVYQLMIGCHLEQPPPSTEAE
 N VKLAHMKHKEQI

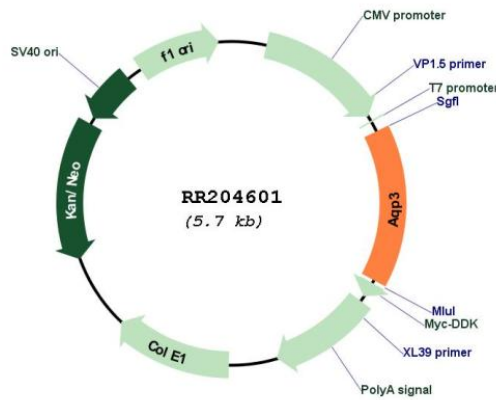
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031703

ORF Size: 876 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:	<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_031703.1 , NP_113891.1
RefSeq Size:	1806 bp
RefSeq ORF:	879 bp
Locus ID:	65133
UniProt ID:	P47862
Cytogenetics:	5q22
MW:	31.4 kDa
Gene Summary:	acts as a water transport channel in the collecting duct of the renal medulla [RGD, Feb 2006]