

Product datasheet for **MG201851**

Aqp9 (BC024105) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aqp9 (BC024105) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Aqp9
Synonyms: 1700020I22Rik; A1266899; AQP-9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201851 representing BC024105
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTTCTGAGAAGGACCGAGCCAAGAAGAACCTCGTGCAGAGGCTGGCCCTGAAGAGCTGTCTGGCTA
AGGAGACACTCTCTGAGTTCCTGGGCACCTTTATAATGATTGTCCTTGGATGTGGCTCTATTGCTCAAGC
AGTCCCTCAGTCGAGAAAAGGCTGGTGGGATCATCACTATCAATATTGGATTTGCAACGGCAGTTGTGATG
GCTCTTTATCGACTTTTGGTGTCTCTGGGGCCACATCAACCCAGCGGTCTTTTGAATGTGCACCT
TTGGAAGGATGGAGTGGTTCAAGTCCCCTTTTATGTGGGAGCTCAGCTTTTGGGAGCCTTTGTCTGGGGC
TGCAACTGTCTTTGGCATTACTATGACGGACTCATGGCCTTTGCTGATGGAAAGCTGCTCATCACGGGA
GAAAATGGAACGGCGTTCATTTTCGCGACATACCCAAAACCATTTGTATCCGTGCCAGGTGCCTTTGTAG
ACCAAAGCCCATGGCCTAGGCGCATCACACATAAAAAGGGAGCTCCAGAATTTTGTCTGCAATACGAGG
GGTTGAGAACAGGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201851 representing BC024105
Red=Cloning site Green=Tags(s)

MPSEKDRAKKNLVQRLALKSCLAKETLSEFLGTFIMIVLGCGSIAQAVLSREKAGGIITINIGFATAVVM
ALYATFGVSGGHINPAVSFAMCTFGRMEWFKFPFYVGAQLLGAFVGAATVFGIYYDGLMAFADGKLLITG
ENGTAFIFATYPKPFVSPGAFVDQSPWPRRITHIKGSSRILSAIRGVENRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

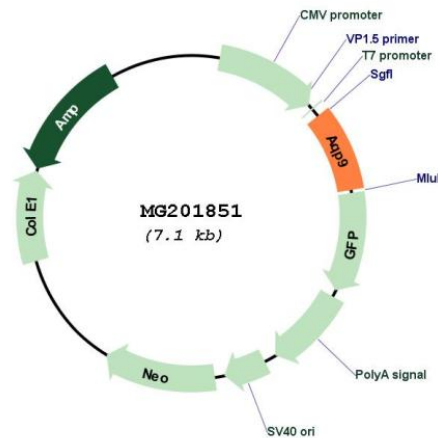


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Cloning Scheme:



Plasmid Map:



ACCN: BC024105

ORF Size: 578 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: [BC024105](#), [AAH24105](#)

RefSeq Size: 2782 bp

RefSeq ORF: 578 bp

Locus ID: 64008

Cytogenetics: 9 D

Gene Summary: This gene encodes a member of the aquaglyceroporin subfamily of aquaporins. This protein transports water, glycerol, urea, purines and pyrimidines and plays a role in glycerol metabolism and osteoclast differentiation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]