

Product datasheet for **MR229230**

Aqp9 (NM_001271843) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aqp9 (NM_001271843) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aqp9
Synonyms: 1700020I22Rik; A1266899; AQP-9
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229230 representing NM_001271843
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCTGGCAGTTTTATTTATTTGTTTGTGGTTTGTGGTTATTTATTTATTTATTTATGTGTGACCAATGC
ACACAAGTGCATCTGAAAATGGCCTGCTGGAGTCAGCTCTCCTCCACCATCCTCCACCATGTGGACTC
TAGGGATGGAGCTCAGGTCATCAGGCCCGCAACAGGGACTTTTATCTCGTCCTGGATGTGGCTCTATT
GCTCAAGCAGTCCTCAGTCGAGAAAAGGCTGGTGGATCATCACTATCAATATTGGATTTGCAACGGCAG
TTGTGATGGCTCTTTATGCGACTTTTGGTGTCTCTGGGGCCACATCAACCCAGCGGTGTCTTTTGAAT
GTGCACCTTTGGAAGGATGGAGTGGTTCAAGTCCCTTTTATGTGGGAGCTCAGCTTTTGGGAGCCTTT
GTCGGGGCTGCAACTGTCTTTGGCATTACTATGACGGACTCATGGCCTTTGCTGATGGAAGCTGCTCA
TCACGGGAGAAAATGGAACGGCGTTTATTTTCGCGACATACCCAAAACATTTGTATCCGTGCCAGGTGC
CTTTGTAGACCAAGTGGTGTCTACCATGTTCTCCTTCTGATTGTCTTTGCCATCTTTGACTCCAGAAAC
CTGGGGGTCCCCAGAGGCCTGGAGCCCATTGTCATTGGCCTCCTAATCATTGTCAATTTCTGTCTCTCG
GACTCAACTCTGGTTGTGCCATGAACCTGCTCGAGACCTCAGCCCAGGCTCTTCACTGCTCTGGCAGG
ATGGGGATTTGAGGTCTTACATTTGAAATAACTTCTGGTGGATACCTGTCGTGGGCCCTATGATTGGA
GCTGTCTCTGGGAGTCTCATCTATGTTCTTTTATCCAAATGCATCACTCGAACCCCGACCCAGAAGTGA
AGGCAGAACCAGCCGAGAACAATCTAGAAAAACACGAACTCAGCGTCATCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229230 representing NM_001271843
Red=Cloning site Green=Tags(s)

MAWQFYLFVCLFYVLFYIYVCAPMHTSASENGLLESALLPPSFHHVDSRDGAQVIRPGNRDFYLVLGCGSI
 AQAVLSREKAGGIITINIGFATAVVMALYATFGVSGGHINPAVSFAMCTFGRMEWFKFPFYVGAQLLGAF
 VGAAATVFGIYYDGLMAFADGKLLITGENTAFIFATYKPFVSVPGAFVDQVYSTMFLLLIVFAIFDSRN
 LGVPRGLEPIVIGLLIIVISCSLGLNSGCAMNPARDLSPRLFTALAGWGFVFTFGNNFWWIPVVGPMIG
 AVLGGLIYVLFIQMHHSNPDPEVKAEP AENNLEKHEL SVIM

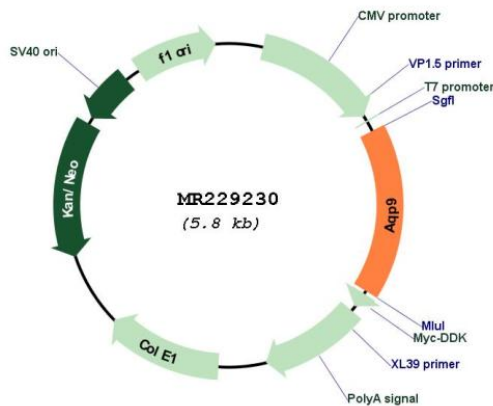
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271843

ORF Size: 963 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_001271843.1 , NP_001258772.1
RefSeq Size:	2646 bp
RefSeq ORF:	966 bp
Locus ID:	64008
Cytogenetics:	9 D
MW:	35.3 kDa
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]