

Product datasheet for RC224567

Aquaporin 9 (AQP9) (NM_020980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 9 (AQP9) (NM_020980) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aquaporin 9
Synonyms:	AQP-9; HsT17287; SSC1; T17287
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224567 representing NM_020980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCTGAGGGAGCAGAAAAGGAAAAAGCTTCAAGCAGAGACTGGTCTTGAAGAGCAGCTTAGCGA
AAGAAACCCTCTCTGAGTTCTTGGGCACGTTTCATCTTGATTGTCCTTGGATGTGGCTGTGTTGCCAAGC
TATTCTCAGTCGAGGACGTTTTGGAGGGGTCATCACTATCAATGTTGGATTTTCAATGGCAGTTGCAATG
GCCATTTATGTGGCTGGCGGTGTCTCTGGTGGTCACATCAACCCAGCTGTGTCTTGAAGCAGTTGTCTCT
TTGGACGGATGAAATGGTTCAAATTGCCATTTTATGTGGGAGCCAGTTCTTGGGAGCCTTGTGGGGGC
TGCAACCGTCTTTGGCATTACTATGATGGACTTATGTCCTTGTGGTGGAAAAGTCTGATCGTGGGA
GAAAATGCAACAGCACACATTTTGAACATACCCAGCTCCGATCTATCTCTGGCGAACGATTTGCAG
ATCAAGTGGTGGCCACCATGATACTCCTCATAATCGTCTTTGCCATTTTGGACTCCAGAAACTTGGGAGC
CCCCAGAGGCCTAGAGCCCATGGCCATCGGCCTCCTGATTATTGTCTTCTCCCTGGGACTGAAC
AGTGGCTGTGCCATGAACCCAGCTCGAGACCTGAGTCCAGACTTTTCACTGCCTTGGCAGGCTGGGGGT
TTGAAGTCTTCAAGCTGGAAACAATTCTGGTGGATTCTGTAGTGGGCCCTTGGTTGGTGTCTCAT
TGGAGGCCCTCATCTATGTTCTTGTCTTGAATCCACCATCCAGAGCCTGACTCAGTCTTAAAGCGAGAA
CAATCTGAGGACAAACCAGAGAAATATGAACTCAGTGTCTCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_020980.2](#), [NP_066190.1](#)

RefSeq Size: 2948 bp

RefSeq ORF: 888 bp

Locus ID: 366

UniProt ID: [O43315](#)

Cytogenetics: 15q21.3

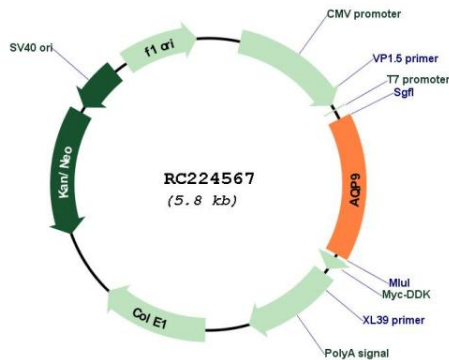
Domains: MIP

Protein Families: Druggable Genome, Transmembrane

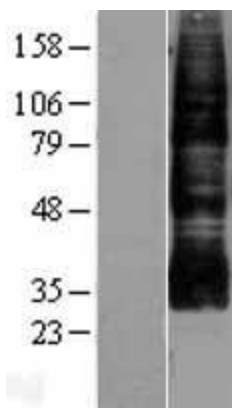
MW: 31.3 kDa

Gene Summary: The aquaporins are a family of water-selective membrane channels. This gene encodes a member of a subset of aquaporins called the aquaglyceroporins. This protein allows passage of a broad range of noncharged solutes and also stimulates urea transport and osmotic water permeability. This protein may also facilitate the uptake of glycerol in hepatic tissue . The encoded protein may also play a role in specialized leukocyte functions such as immunological response and bactericidal activity. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

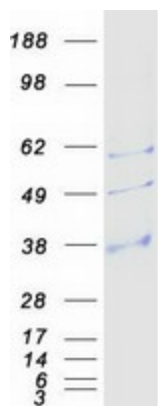
Product images:



Circular map for RC224567



Western blot validation of overexpression lysate (Cat# [LY402816]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224567 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AQP9 protein (Cat# [TP324567]). The protein was produced from HEK293T cells transfected with AQP9 cDNA clone (Cat# RC224567) using MegaTran 2.0 (Cat# [TT210002]).