

Specifications:

Gene:	<i>h</i> AQP1
Accession:	AAH22486
Insert size:	823bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

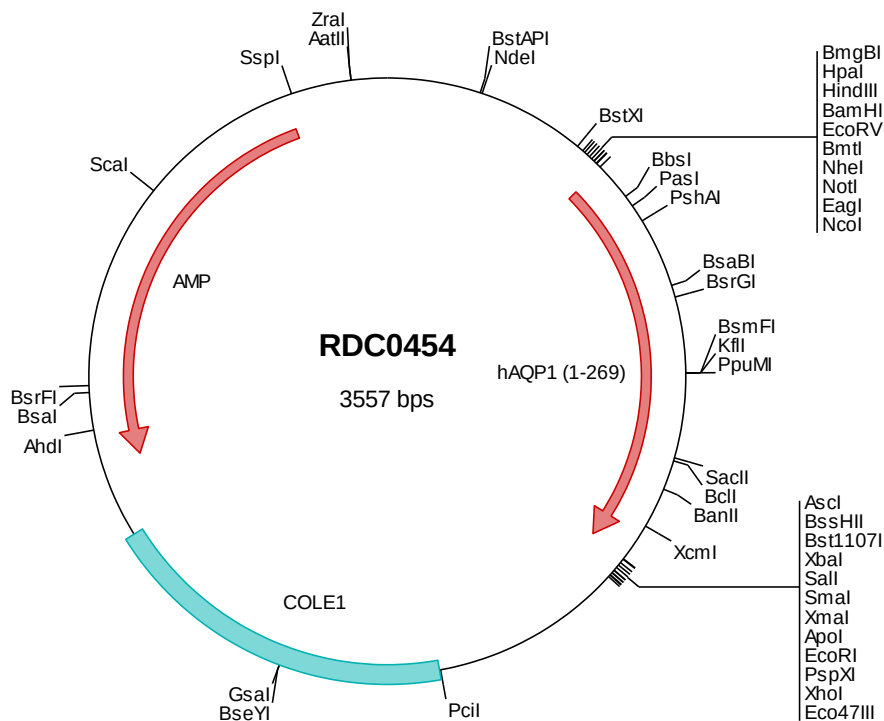
*h*AQP1 cDNA Plasmid

AQP1 aquaporin 1 (Colton blood group) [*Homo sapiens*]

Also known as: CO; CHIP28; AQP-CHIP

Summary:

Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein. AQP1 is an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. AQP1 is a possible candidate for disorders involving imbalance in ocular fluid movement. Several transcript variants encoding different isoforms have been found for this gene.





> RDC0454 Plasmid DNA Sequence

```
1   tcgcgcggttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaagggt ggatgtgctg caaggcgatt aagtgggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgattt
401  ggagacgtgt taacaagcct ggatccgata tcgctagcgc ggccgccacc atggccagcg agttcaagaa gaagctcttc tggaggcgag tggtagccga
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601  aagggtgtcgc tggccttcgg gctgagcacc gccacgctgg cgcagagtgt ggccacatc agcggcgccc acctcaacc ggctgtcaca ctggggctgc
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> RDC0454 Translated Insert Sequence

```
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201  vithnfsnhw ifwvvpfigg alavliydfl laprssdltd rvkvwtsgqv eeydladdi nsrvemkpk
```