

Supplementary Table S1. Detailed information of sequences used in phylogenetic tree construction

Classification	Species	Accession number
AQP0	<i>Homo sapiens</i>	ENSP00000257979
AQP0	<i>Mus musculus</i>	ENSMUSP00000026455
AQP0	<i>Xenopus laevis</i>	JN0557
Aqp0a	<i>Danio rerio</i>	ENSDARP00000054237
Aqp0b	<i>Danio rerio</i>	ENSDARP00000005361
AQP1	<i>Homo sapiens</i>	ENSP00000311165
AQP1	<i>Mus musculus</i>	ENSMUSP00000004774
AQP1	<i>Xenopus laevis</i>	NP_001085391.1
Aqp1aa	<i>Danio rerio</i>	ENSDARP00000036702
Aqp1ab	<i>Danio rerio</i>	ENSDARP00000110131
AQP2	<i>Homo sapiens</i>	ENSP00000199280
AQP2	<i>Mus musculus</i>	ENSMUSP00000023752
AQP3	<i>Homo sapiens</i>	ENSP00000297991
AQP3	<i>Mus musculus</i>	ENSMUST00000055327
AQP3	<i>Xenopus laevis</i>	NP_001081876.1
Aqp3a	<i>Danio rerio</i>	ENSDARP00000018463
Aqp3b	<i>Danio rerio</i>	ENSDARP00000092015
AQP4	<i>Homo sapiens</i>	ENSP00000372654
AQP4	<i>Mus musculus</i>	ENSMUSP00000078088
AQP4	<i>Xenopus laevis</i>	NP_001124421.1
Aqp4	<i>Danio rerio</i>	ENSDARP00000021578
AQP5	<i>Homo sapiens</i>	ENSP00000293599
AQP5	<i>Mus musculus</i>	ENSMUSP00000048739
AQP5	<i>Xenopus laevis</i>	NP_001079331.1
AQP6	<i>Homo sapiens</i>	ENSP00000320247
AQP6	<i>Mus musculus</i>	ENSMUSP00000023754
AQP6ub	<i>Xenopus laevis</i>	NP_001137369.1
AQP7	<i>Homo sapiens</i>	ENSP00000456868
AQP7	<i>Mus musculus</i>	ENSMUSP00000030136
AQP8	<i>Homo sapiens</i>	ENSP00000219660
AQP8	<i>Mus musculus</i>	ENSMUSP00000033023
Aqp8aa	<i>Danio rerio</i>	ENSDARP00000066381
Aqp8ab	<i>Danio rerio</i>	ENSDARP00000096730
Aqp8bb-1	<i>Danio rerio</i>	ENSDARP00000005510
Aqp8bb-2	<i>Danio rerio</i>	ENSDARP00000109513
AQP9	<i>Homo sapiens</i>	ENSP00000219919
AQP9	<i>Mus musculus</i>	ENSMUSP00000109200
Aqp9a	<i>Danio rerio</i>	NP_001028268.1
Aqp9b	<i>Danio rerio</i>	ENSDARP00000069995
AQP10	<i>Homo sapiens</i>	ENSP00000318355
Aqp10a	<i>Danio rerio</i>	ENSDARP00000012559
Aqp10b	<i>Danio rerio</i>	ENSDARP00000121815

AQP11	<i>Homo sapiens</i>	ENSP00000318770
AQP11	<i>Mus musculus</i>	ENSMUSP00000082054
Aqp11b	<i>Danio rerio</i>	ENSDARP00000062519
AQP11	<i>Xenopus laevis</i>	AAI33223.1
AQP12A	<i>Homo sapiens</i>	ENSP00000337144
AQP12B	<i>Homo sapiens</i>	ENSP00000384894
AQP12	<i>Mus musculus</i>	ENSMUSP00000060622
AQP12	<i>Xenopus laevis</i>	AAH82904.1
Aqp12	<i>Danio rerio</i>	ENSDARP00000063532
AQP13	<i>Xenopus laevis</i>	NP_001082310.1
Aqp14	<i>Danio rerio</i>	MK883754.1
Aqp15	<i>Danio rerio</i>	ENSDARP00000055694
AQP16	<i>Xenopus laevis</i>	AAH99368.1