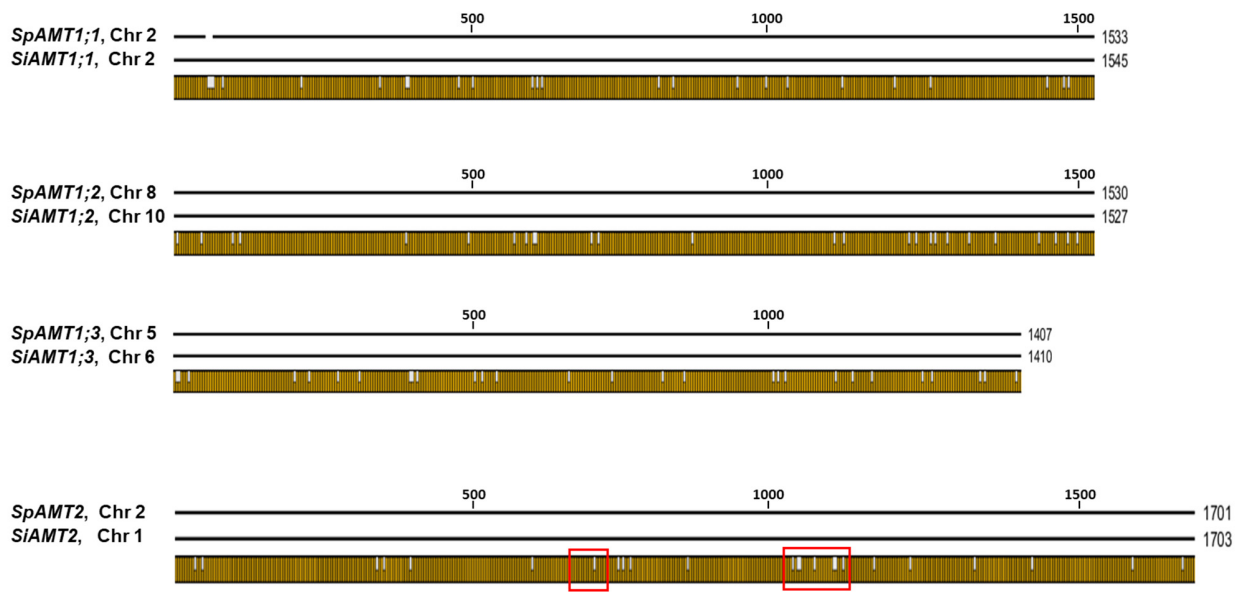


**Table S1.** List of RT-qPCR primers used for evaluating expression of *AMTs aquaporin* genes in *S. polyrhiza* line NB5548.

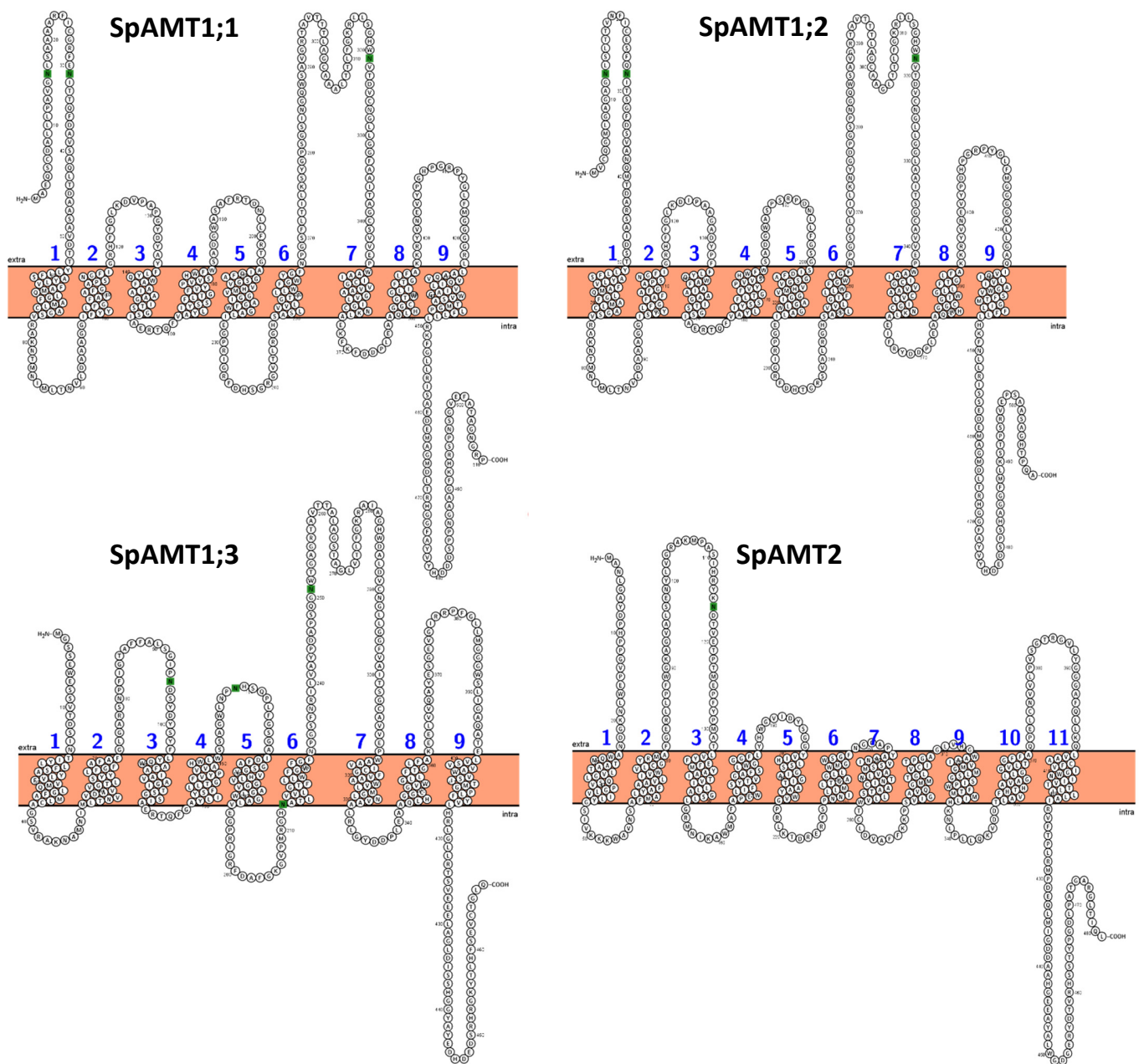
Gene	Forward primer	Reverse primer	PCR product length, bp
<i>SpAMT1;1</i>	GTTCGTCGCTTATCTCATCT	GGAAAAGGAGGTTGTCGGT	122
<i>SpAMT1;2</i>	TATCTCCTCTTCTCCGCGT	TTCATGGTGTTCTTGGCCC	92
<i>SpAMT1;3</i>	ACCCTCTCTTACTACCTTTT	GAATGCCCCACTGGTACAGAA	147
<i>SpAMT2</i>	TCCTGAACACCAACATCTGC	AGTCCCGTCATCATTCCCT	115
<i>SpTIP2;1</i>	TCCATGAACCCTGCTCGCT	GGTAGGCGTAGGTGTAGACAAG	127
<i>SpPIP1;2/SpPIP1;3</i>	TCGGCTTCGCAGTGTTCTT	GGACCTGGACTTGAATGGGA	218
<i>SpPIP2;2</i>	TCGCCACCATCCCTATCA	CACCAATGAAAGGCCCTA	126
<i>SpHiston3</i>	CGCAAGTACCAGAAGAGCAC	CGAAGAGACCCACGAGGTAG	160
<i>SpActin</i>	TGTTTTCCCAAGTATCGTC	TCCCAGTTGGTGACGATT	153

**Table S2.** List of primer used for cloning *AMT* genes of *S. polyrhiza* ecotype NB5548.

Gene	Forward primer	Reverse primer	PCR product length, bp
<i>SpAMT1;1</i>	AGAGAAGGGAGATGGCGGA	GAGAGAGAAGGTGGGAAGG	1579
<i>SpAMT1;2</i>	GGAGAGATGGGGGACATGG	AAGATATCGATCGGGCCAC	1689
<i>SpAMT1;3</i>	TCTCTCTGCACCTGTCTT	ACAGTCCCAGTTGTTCC	1453
<i>SpAMT2</i>	GTTGGGGTGAAGAGGATGG	AGGGAGAGAGAGAGACTAGA	1476



**Figure S1.** Schematic structure of AMT coding regions in genomes of *Spirodela polyrhiza* (*Sp*) and *Spirodela intermedia* (*Si*). Positions of introns in the *SpAMT2* (643-722 and 1010-1185bp) and *SiAMT2* (643-723 and 1011-1187bp) genes are marked by red boxes.



**Figure S2.** Schematic structure of AMTs of *S. polyrhiza*. Images generated by tool *Protter - visualize proteoforms* [45]

