

Supplementary Materials

Supplementary Table S1. Identity between the *Chlamydomonas* NRT2 proteins. Values are obtained using Clustal-Omega program. **(A)** In blue, percent of identity obtained after comparing N-terminal domain (TM1-6) from NRT2.1, NRT2.2, NRT2.3 and NRT2.5. In orange, percent of identity obtained after comparing C-terminal domain (TM7-12) from NRT2.1, NRT2.2, NRT2.3 and NRT2.4. **(B)** Percent of identity between NRT2.1-5 proteins in its whole length.

A		C-terminal domain % identity			
		NRT2.1	NRT2.2	NRT2.3	NRT2.4
N-terminal domain % identity	NRT2.1	-	94.61	86.27	37.25
	NRT2.2	86.26	-	85.29	36.27
	NRT2.3	85.88	80.15	-	34.80
	NRT2.5	37.18	35.47	35.47	-

B		Full protein % identity			
		NRT2.1	NRT2.2	NRT2.3	NRT2.4
Full protein % identity	NRT2.1	-	85.96	78.91	31.17
	NRT2.2	-	-	77.58	29.87
	NRT2.3	-	-	-	30.45
	NRT2.5	28.48	27.82	25.96	19.31

Supplementary Table S2. List of primers used. Position of the primers is referred to the corresponding cDNA considering ATG as position +1.

Primer	Sequence (5'-3')	Position*	Use
<i>5'UTR_Nrt2;5</i>	CCGGCATAACCTCTCCCAGT	-122 → -100	cDNA amplification and cloning
<i>5'ATG_Nrt2;5</i>	TACCACCGCTGCTTCGATGG	-16 → 4	
<i>iQ2.5_Nrt2;5</i>	GGTATTCCGGCCCCCTGAGTGTT	1068 → 1089	
<i>5'UTRNRT2.4</i>	CCGCAACTGCTGTGGTAGGTGC	-158 → -137	
<i>5'ATGNRT2.4</i>	ATGGGTGCTGCTGGCGT	1→17	
<i>NRT2.4ATG1-Sall</i>	gtcgacATGGGTGCTGCTGGCGT	1→17	
<i>LoSpe_Nrt2;4</i>	actagtCTACCTGCCTTCCTC	1267 → 1281	
<i>Q₀</i>	CCAGTGAGCAGCTGACG	-	
<i>Q_i</i>	GAGGACTCGAGCTCAAGC	-	
<i>Q_t</i>	CCAGTGAGCAGAGTGACGAGGACT CGAGCTCAAGCTTTTTTTTTTTTTTTT	-	
<i>NRT2.4amiFor</i> <i>NRT2.4amiRev</i>	ctagtAAGCCTAACATTACCAAATTAAtct cgctgatcggcacatgggggtggtggtgatcagcgcta TAATATGGTAATGT TAGGCTTg	+323 → +344	Artificial micro iRNA
	ctagcAAGCCTAACATTACCATATTAta gcgctgatcaccaccaccccatggtgccgatcagcgag aTAATTTGGTAATGTTAGGCTTa		
<i>iQNrt2.4Up</i>	GCTCCTGGCCATAAGCAACGGTTTC	456 → 480	Real Time-PCR
<i>iQNrt2.4Lo</i>	CCTCGCCGCCGCCTCACTGG	623 → 642	
<i>iQNrt2.5Up</i>	CTGGAGCCCGTGATGAAGGATTC	1171 → 1193	
<i>iQNrt2.5Lo</i>	ACAACCCCGACAGCACGAAGAAG	1644 → 1666	