

Table S6. Structural features and subcellular localization of the identified metal transporters in *C. reinhardtii*. Columns 1 to 6 contain protein name, JGI identification number (transcript), number of transmembrane (TM) domains as predicted by TMHMM software, subcellular localization predicted by either iPSORT or TargetP, along with TargetP reliability class (RC ; from 1 to 5 ; 1 being the highest reliability). CrMRP1 (AAL35383), CrCds1 (AAQ19847) and CrFTR1 (AAM45938) have been named previously (Im et al., 2002; Hanikenne et al., in press; Lafontaine et al., 2002).

protein name	JGI id	No of TM domains	iPSORT prediction	TargetP prediction	TargetP RC
CDF family					
CrMTP1	168519	6	vacuole	vacuole	3
CrMTP2	153887	5	vacuole	vacuole	5
CrMTP3	153892	3	mitochondrion	mitochondrion	3
CrMTP4	154037	4	vacuole	vacuole	3
CrMTP5	162326	3	chloroplast	vacuole	5
ZIP family					
CrZIP1	153077	5	mitochondrion	mitochondrion	4
CrZIP2	157106	9	vacuole	vacuole	1
CrZIP3	160009	6	secretory pathway	secretory pathway	3
CrZIP4	171817	5	secretory pathway	vacuole	5
CrZIP5	171818	8	vacuole	vacuole	1
CrZIP6	158835	8	vacuole	vacuole	4
CrZIP7	167842	14	chloroplast	secretory pathway	5
CrZIP8	164608	6	vacuole	secretory pathway	4
CrZIP9	153825	6	secretory pathway	secretory pathway	1
CrZIP10	164248	3	vacuole	vacuole	4
CrZIP11	164249	8	secretory pathway	secretory pathway	2
CrZIP12	171130	5	secretory pathway	secretory pathway	2
CrZIP13 putative	159981	7	mitochondrion	chloroplast	4
CrZIP14 putative	164406	0	chloroplast	chloroplast	4
CAX family					
CrCAX1	157233	11	vacuole	vacuole	4
CrCAX2	166617	5	mitochondrion	mitochondrion	5
CrCAX3	158919	7	vacuole	vacuole	3
CrCAX4	163085	10	chloroplast	vacuole	3
COPT family					
CrCOPT1	163944	2	mitochondrion	secretory pathway	3
P-Type ATPases					
<i>HMA subfamily</i>					
CrHMA1	159065	5	mitochondrion	mitochondrion	3
CrHMA2	168288	8	mitochondrion	vacuole	5
CrHMA3	161566	6	vacuole	vacuole	1
ABC transporter family					
<i>MRP subfamily</i>					
CrMRP1	–	8	secretory pathway	secretory pathway	4
CrMRP2	153344	11	vacuole	vacuole	4
CrMRP3	166481	11	vacuole	mitochondrion	3
CrMRP4	165660	11	mitochondrion	chloroplast	3
CrMRP5	162457	4	chloroplast	vacuole	4
CrMRP6	–	7	secretory pathway	mitochondrion	4
CrMRP7	160938	3	vacuole	vacuole	2
<i>ATM/HMT subfamily</i>					
CrCds1	–	11	chloroplast	vacuole	3
CrATM/HMT-2	158975	5	mitochondrion	mitochondrion	3
CrATM/HMT-3	156620	4	secretory pathway	mitochondrion	4
FTR family					
CrFTR1	164771	7	secretory pathway	secretory pathway	1
NRAMP family					
CrNRAMP1	157858	11	vacuole	vacuole	5
CrNRAMP2	167153	6	chloroplast	vacuole	3
CrNRAMP3	165437	12	secretory pathway	secretory pathway	3