

Table S4. EST clones corresponding to the identified metal transporters in *C. reinhardtii*. Columns 1 to 5 contain protein name, JGI identification number (transcript), number of EST clones found, distribution of the EST clones among the various cDNA libraries (described in Asamizu et al., 1999; Asamizu et al., 2000; Shrager et al., 2003) and EST clone identification or accession numbers. 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 EST clones	clone library associations	clone ids
CDF family				
CrMTP1	168519	3	CGP stress II (3)	1031014E07 1031024E10 1031043H12
CrMTP2	153887	4	CGP deflagellation (2) CGP stress II (2)	1030108D02 1030116G02 1031058A01 1031095G10
CrMTP3	153892	–	–	–
CrMTP4	154037	–	–	–
CrMTP5	162326	1	Kazusa phototrophic growth (1)	AV394737
ZIP family				
CrZIP1	153077	–	–	–
CrZIP2	157106	1	Kazusa 5% CO ₂ (1)	AV643607
CrZIP3	160009	–	–	–
CrZIP4	171817	–	–	–
CrZIP5	171818	4	Kazusa 5% to 0.04% CO ₂ (3) Kazusa various conditions (1)	AV626863 AV630346 AV630909 BP094353
CrZIP6	158835	3	CGP stress II (1) CGP core (1) CGP stress I (1)	1031047D02 894089H08 963048F03
CrZIP7	167842	1	CGP gamete-zygote (1)	1112107H03
CrZIP8	164608	2	CGP stress II (1) Kazusa various conditions (1)	1031063G09 BP091787
CrZIP9	153825	5	CGP stress I (2) CGP gamete-zygote (1) Kazusa 5% CO ₂ (1) Kazusa phototrophic growth (1)	1112014A05 963092G11 963097F02 AV389034 AV635915
CrZIP10	164248	1	CGP gamete-zygote (1)	1112001F12
CrZIP11	164249	1	CGP stress II (1)	1031112C12
CrZIP12	171130	–	–	–
CrZIP13 putative	159981	2	CGP stress II (1) Kazusa 5% to 0.04% CO ₂ (1)	1031014C12 AV625751
CrZIP14 putative	164406	–	–	–
CAX family				
CrCAX1	157233	11	Kazusa various conditions (3) CGP stress III (2) Kazusa 5% CO ₂ (2) CGP core (2) CGP core subtracted (1) CGP stress II (1)	1024053A12 1031095E12 1115056E06 1115059D08 894082C07 894093E03 AV641018 AV641025 BP091238 BP093743 BP095263
CrCAX2	166617	3	CGP core subtracted (1) CGP gamete-zygote (1) CGP core (1)	1024007G07 1112024E07 894064A11
CrCAX3	158919	–	–	–
CrCAX1	157233	11	Kazusa various conditions (3) CGP stress III (2) Kazusa 5% CO ₂ (2) CGP core (2) CGP core subtracted (1) CGP stress II (1)	1024053A12 1031095E12 1115056E06 1115059D08 894082C07 894093E03 AV641018 AV641025 BP091238 BP093743 BP095263
COPT family				
CrCOPT1	163944	–	–	–
P-Type ATPases				
<i>HMA subfamily</i>				
CrHMA1	159065	1	Kazusa various conditions (1)	BP098615
CrHMA2	168288	1	CGP core subtracted (1)	1024007C06
CrHMA3	161566	–	–	–

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protein name	JGI id	No of EST clones	clone library associations	clone ids
ABC transporter family				
<i>MRP subfamily</i>				
CrMRP1	–	21	CGP gamete-zygote (5) Kazusa various conditions (5) CGP core (3) CGP deflagellation (2) CGP stress II (2) CGP stress III (1) Kazusa 5% CO ₂ (1) Kazusa 5% to 0.04% CO ₂ (1) CGP stress I (1)	1030067C05 1030067C06 1031002H06 1031026A10 1112032C03 1112050E06 1112100B10 1112118A04 1112118H12 1115043D12 894007C07 894011A09 894100E10 963043G03 BP086819 BP093055 BP093289 BP093659 BP094501 BP383735 BP383829
CrMRP2	153344	16	Kazusa various conditions (8) CGP stress II (2) CGP gamete-zygote (2) CGP core subtracted (1) CGP deflagellation (1) Kazusa 5% to 0.04% CO ₂ (1) CGP stress I (1)	1024120H11 1030043E07 1031023G08 1031094D07 1112097H07 1112132E11 963087H06 BP093919 BP094156 BP095351 BP095767 BP096456 BP096863 BP098472 BP098571 BP383837
CrMRP3	166481	2	Kazusa 5% to 0.04% CO ₂ (1) Kazusa phototrophic growth (1)	AV395734 AV629725
CrMRP4	165660	–	–	–
CrMRP5	162457	–	–	–
CrMRP6	–	2	CGP stress II (1) CGP gamete-zygote (1)	1031023E03 1112084E06
CrMRP7	160938	–	–	–
<i>ATM/HMT subfamily</i>				
CrCds1	–	7	CGP stress II (3) CGP gamete-zygote (2) Kazusa various conditions (2)	1031005C04 1031017D06 1031027E09 1112054E05 1112145F05 BP090666 BP096922
CrATM/HMT-2	158975	–	–	–
CrATM/HMT-3	156620	–	–	–
FTR family				
CrFTR1	164771	9	Kazusa various conditions (4) Kazusa phototrophic growth (2) CGP deflagellation (1) CGP stress II (1) Kazusa 5% to 0.04% CO ₂ (1)	1030071F12 1031107C11 AV386548 AV395492 AV631148 BP094313 BP095313 BP095713 BP098790
NRAMP family				
CrNRAMP1	157858	13	CGP gamete-zygote (3) CGP stress II (2) CGP core (2) CGP stress I (2) CGP core subtracted (1) Kazusa 5% to 0.04% CO ₂ (1) Kazusa phototrophic growth (1) Kazusa various conditions (1)	1024064D08 1031008E03 1031104C12 1112076C02 1112097C06 1112125E05 894062H08 894067D09 963082B12 963095H05 AV389837 AV625564 BP091649
CrNRAMP2	167153	–	–	–
CrNRAMP3	165437	–	–	–