

**Table S1** Number of Cys residues in chloroplast proteins in *Arabidopsis*.

Protein	Number of Cys residues
PSI	
PSA-A	4
PSA-B	2
PSA-K	2
PSA-C	9
PSA-D	1
PSA-F	3
PSA-N	5
LHCA1	3
LHCA2	2
LHCA3	0
LHCA4	1
PSII	
D1	2
D2	4
CP47	3
CP43	4
LHCB1	1
LHCB2	1
LHCB3	1
Rubisco	
RBC-L	9
RBC-S	5
CCEs	
NYC1	8
NOL	5
HCAR	10
SGR1	8
SGR2	9
SGRL	6
PPH	6
PAO	10
RCCR	4