

Table S2. Identified proteins in all three cell wall protein-enriched fractions (CaCl₂, EGTA, LiCl). The given spot numbers correspond to those detected on gel, which changed significantly in response to Cd exposure. The table only contains those spots in which a single protein was identified and were, therefore, considered for biological interpretation. The given gi- numbers correspond to NCBI protein database. Statistics were automatically done by the SameSpots software. The predicted subcellular localization was determined by TargetP online tool (<http://www.cbs.dtu.dk/services/TargetP/>). S: secretory pathway; C: chloroplast; M: mitochondrion; /: any other location. Information about the biological function were obtained with the Blast2Go software and literature. FC: Fold change; ^a: as a result of the prediction by DeepLoc, ^b: Type of protein, soluble or membrane, respectively indicated with Sol and Memb

# spot	Identification	Assigned protein	p-value	FC	Functional class	TargetP	Localisation ^a	Type ^{a,b}
<u>CaCl₂ fraction</u>								
<i>Proteins of lower abundance in Cd-exposed plants</i>								
2175	gi 357504821	pectinesterase/pectinesterase inhibitor (<i>Medicago truncatula</i>)	2.50E–02	1.8	cell wall modification	S	Lysosome/Vacuole	Sol
1771	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	1.80E–02	1.9	cell wall modification	S	Extracellular	Sol
3105	gi 357446161	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	1.70E–02	1.9	defence	S	Lysosome/Vacuole	Sol
239	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	1.30E–02	1.3	nutrient reserve	S	Extracellular	Sol
2689	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	6.00E–03	1.3	nutrient reserve	S	Extracellular	Sol
2690	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	1.00E–03	1.5	nutrient reserve	S	Extracellular	Sol
2692	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	2.77E–04	1.4	nutrient reserve	S	Extracellular	Sol
2783	gi 922390231	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	3.30E–02	1.6	nutrient reserve	S	Extracellular	Sol
2790	gi 922390231	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	3.00E–03	1.3	nutrient reserve	S	Extracellular	Sol
2786	gi 11133884	Oxygen-evolving enhancer protein 2	5.00E–03	1.7	photosynthesis	C	Plastid	Memb
2863	gi 922378759	oxygen-evolving enhancer protein 2-1 (<i>Medicago truncatula</i>)	1.20E–02	1.8	photosynthesis	C	Plastid	Memb

3645	gi 922378761	oxygen-evolving enhancer protein 2-1 (<i>Medicago truncatula</i>)	4.70E-02	1.7	photosynthesis	C	Plastid	Memb
3213	gi 3914601	Ribulose biphosphate carboxylase small chain,	1.00E-02	2.2	photosynthesis	C	Plastid	Memb
3214	gi 3914601	Ribulose biphosphate carboxylase small chain,	5.79E-04	1.7	photosynthesis	C	Plastid	Memb
3219	gi 3914601	Ribulose biphosphate carboxylase small chain,	2.00E-02	1.5	photosynthesis	C	Plastid	Memb
3231	gi 3914601	Ribulose biphosphate carboxylase small chain,	2.10E-02	2.2	photosynthesis	C	Plastid	Memb
3211	gi 3914601	ribulose-1,5-bisphosphate carboxylase small subunit (<i>Medicago sativa</i>)	2.40E-02	1.7	photosynthesis	C	Plastid	Memb
3561	gi 3914601	ribulose-1,5-bisphosphate carboxylase small subunit (<i>Medicago sativa</i>)	1.00E-03	1.7	photosynthesis	C	Plastid	Memb
2395	gi 922336891	photosystem II oxygen-evolving enhancer protein (<i>Medicago truncatula</i>)	4.00E-02	3.6	photosynthesis	C	Plastid	Memb
3558	gi 922395263	plant/F18G18-200 protein (<i>Medicago truncatula</i>)	4.00E-02	1.3	unknown function	S	Extracellular	Sol
3611	gi 922395263	plant/F18G18-200 protein (<i>Medicago truncatula</i>)	6.00E-03	1.8	unknown function	S	Extracellular	Sol
3672	gi 922395263	plant/F18G18-200 protein (<i>Medicago truncatula</i>)	2.00E-03	1.6	unknown function	S	Extracellular	Sol
Proteins of higher abundance in Cd-exposed plants								
3620	gi 87240471	Glycoside hydrolase, family 17 (<i>Medicago truncatula</i>)	4.00E-03	1.8	carbohydrate metabolic process	/	Lysosome/Vacuole	Sol
2280	gi 357474069	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	6.66E-04	3.2	carbohydrate metabolic process	S	Extracellular	Sol
2420	gi 357454031	glycoside hydrolase family 18 protein (<i>Medicago truncatula</i>)	1.80E-02	1.9	carbohydrate metabolic process	S	Lysosome/Vacuole	Sol
3547	gi 922383650	glycoside hydrolase family 18 protein (<i>Medicago truncatula</i>)	7.04E-04	2.4	carbohydrate metabolic process	S	Lysosome/Vacuole	Sol

3124	gi 357449105	disease-resistance response protein (<i>Medicago truncatula</i>)	1.58E-04	3.9	defence	/	Cytoplasm	Sol
2402	gi 821595433	stromal 70 kDa heat shock-related protein, chloroplastic (<i>Cucumis sativus</i>)	3.00E-02	1.6	defence	C	Plastid	Sol
2236	gi 922401927	allergen Pru protein, putative (<i>Medicago truncatula</i>)	1.00E-03	3.3	defence	S	Extracellular	Sol
2915	gi 922347233	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	2.00E-03	1.8	Defence	S	Extracellular	Sol
3218	gi 922403681	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	5.00E-03	3	Defence	S	Extracellular	Sol
2508	gi 357443753	chitinase (<i>Medicago truncatula</i>)	5.00E-03	3.9	Defence	S	Extracellular	Sol
2525	gi 228204925	chitinase class III-1 (<i>Medicago sativa</i>)	3.20E-02	1.4	Defence	S	Extracellular	Sol
3489	gi 548592	Pathogenesis-related protein 1;	6.51E-05	2.4	defence	S	Lysosome/Vacuole	Sol
3028	gi 357446161	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	3.61E-04	3.1	defence	S	Lysosome/Vacuole	Sol
3030	XP003593358	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	5.75E-05	3.1	defence	S	Lysosome/Vacuole	Sol
3031	gi 357446161	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	2.96E-04	2.6	defence	S	Lysosome/Vacuole	Sol
3034	gi 357446351	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	1.50E-02	1.4	defence	S	Lysosome/Vacuole	Sol
3037	gi 357446161	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	2.20E-02	1.7	defence	S	Lysosome/Vacuole	Sol
3081	gi 357446161	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	4.70E-04	2	defence	S	Lysosome/Vacuole	Sol
3095	gi 357446161	CAP, cysteine-rich secretory protein, antigen 5 (<i>Medicago truncatula</i>)	4.60E-02	1.4	defence	S	Lysosome/Vacuole	Sol
2339	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	2.39E-04	2	oxidation-reduction process	S	Extracellular	Sol

2349	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	3.00E-03	1.9	oxidation-reduction process	S	Extracellular	Sol
2357	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	3.21E-04	2	oxidation-reduction process	S	Extracellular	Sol
2359	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	6.35E-04	1.9	oxidation-reduction process	S	Extracellular	Sol
2371	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	1.20E-02	1.5	oxidation-reduction process	S	Extracellular	Sol
3519	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	7.62E-06	2	oxidation-reduction process	S	Extracellular	Sol
3663	gi 357476371	class III peroxidase (<i>Medicago truncatula</i>)	1.20E-04	1.9	oxidation-reduction process	S	Extracellular	Sol
2342	gi 971564	peroxidase2 (<i>Medicago sativa</i>)	2.00E-03	1.8	oxidation-reduction process	S	Extracellular	Sol
2356	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	1.27E-04	2.1	oxidation-reduction process	S	Extracellular	Sol
2372	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	7.41E-04	1.8	oxidation-reduction process	S	Extracellular	Sol
3535	gi 971564	peroxidase2 (<i>Medicago sativa</i>)	2.61E-04	1.9	oxidation-reduction process	S	Extracellular	Sol
3536	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	2.49E-04	1.8	oxidation-reduction process	S	Extracellular	Sol
3617	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	7.00E-03	2	oxidation-reduction process	S	Extracellular	Sol
3636	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	1.11E-05	2	oxidation-reduction process	S	Extracellular	Sol
3637	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	2.30E-02	1.7	oxidation-reduction process	S	Extracellular	Sol
3664	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	9.39E-06	2.1	oxidation-reduction process	S	Extracellular	Sol
3158	gi 922335020	plastocyanin-like domain protein (<i>Medicago truncatula</i>)	3.80E-02	1.4	oxidation-reduction process	S	Cell Memb	Mem
3075	gi 357480841	photosystem I reaction center subunit II (<i>Medicago truncatula</i>)	2.00E-03	2.4	photosynthesis	C	Plastid	Sol

1922	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.00E-03	2.8	proteolysis	C	Extracellular	Sol
1938	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	3.00E-03	3.3	proteolysis	C	Extracellular	Sol
3541	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.40E-02	2.1	proteolysis	C	Extracellular	Sol
3595	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.00E-02	1.9	proteolysis	C	Extracellular	Sol
2699	gi 922336331	carboxyl-terminal peptidase (<i>Medicago truncatula</i>)	9.00E-03	1.6	proteolysis	S	Extracellular	Sol
2374	gi 357437715	papain family cysteine protease (<i>Medicago truncatula</i>)	1.90E-02	1.4	proteolysis	S	Lysosome/Vacuole	Sol

# spot	Identification	Assigned protein	p-value	FC	Functional class	TargetP	Localisation ^a	Type ^{a,b}
EGTA fraction								
Proteins of lower abundance in Cd-exposed plants								
1003	gi 357461143	sedoheptulosE-1,7-bisphosphatase (<i>Medicago truncatula</i>)	1.90E-02	2.1	carbohydrate metabolic process	C	Plastid	Sol
892	gi 374634428	polygalacturonasE-inhibiting protein 1, partial (<i>Medicago sativa</i> subsp. x varia)	3.89E-04	1.6	cell wall modification	/	Extracellular	Sol
989	gi 357504799	pectinesterase/pectinesterase inhibitor (<i>Medicago truncatula</i>)	2.00E-03	3.2	cell wall modification	S	Lysosome/Vacuole	Sol
1007	gi 357504799	pectinesterase/pectinesterase inhibitor (<i>Medicago truncatula</i>)	2.00E-03	3.5	cell wall modification	S	Lysosome/Vacuole	Sol
2096	gi 74058377	cystatin (<i>Medicago sativa</i>)	1.00E-03	1.9	defence	/	Cytoplasm	Sol
1439	gi 922367846	pathogenesis-related thaumatin family protein (<i>Medicago truncatula</i>)	3.00E-03	1.9	defence	S	Extracellular	Sol
759	gi 357508587	Nod factor-binding lectin-nucleotide phosphohydrolase (<i>Medicago truncatula</i>)	4.70E-02	1.8	Defence	S	Extracellular	Sol
762	gi 922345135	Nod factor-binding lectin-nucleotide phosphohydrolase (<i>Medicago truncatula</i>)	2.40E-02	1.7	Defence	S	Extracellular	Sol

835	gi 922339971	Nod factor-binding lectin-nucleotide phosphohydrolase (<i>Medicago truncatula</i>)	4.00E-02	1.5	Defence	S	Extracellular	Sol
2293	gi 922345135	Nod factor-binding lectin-nucleotide phosphohydrolase (<i>Medicago truncatula</i>)	5.00E-03	1.9	Defence	S	Extracellular	Sol
1454	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	2.00E-03	2	nutrient reserve	S	Extracellular	Sol
1455	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	1.00E-03	2.5	nutrient reserve	S	Extracellular	Sol
1456	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	4.00E-03	2.3	nutrient reserve	S	Extracellular	Sol
2254	gi 922390231	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	3.00E-03	1.4	nutrient reserve	S	Extracellular	Sol
1464	gi 502156424	germin-like protein subfamily 3 member 1 (<i>Cicer arietinum</i>)	8.36E-05	2.8	nutrient reserve	S	Extracellular	Sol
1383	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	1.60E-02	2.1	nutrient reserve	S	Extracellular	Sol
1386	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	2.30E-02	1.8	nutrient reserve	S	Extracellular	Sol
1726	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	5.00E-03	2	nutrient reserve	S	Extracellular	Sol
1641	gi 922395795	1-cys peroxiredoxin PER1 (<i>Medicago truncatula</i>)	2.00E-03	2.3	oxidation-reduction process	C	Plastid	Sol
1496	gi 3293555	Chlorophyll a-b binding protein 2, (<i>Populus euphratica</i>)	8.00E-03	1.7	photosynthesis	C	Plastid	Memb
2048	gi 922331371	oxygen-evolving enhancer protein (<i>Medicago truncatula</i>)	1.00E-03	2.4	photosynthesis	C	Plastid	Memb
1610	gi 502127023	oxygen-evolving enhancer protein 2, (<i>Cicer arietinum</i>)	3.50E-02	3.7	photosynthesis	C	Plastid	Memb
1603	gi 922378761	oxygen-evolving enhancer protein 2-1 (<i>Medicago truncatula</i>)	2.60E-02	5.9	photosynthesis	C	Plastid	Memb
1522	gi 357512271	ribosE-5-phosphate isomerase A (<i>Medicago truncatula</i>)	1.00E-03	2.5	photosynthesis	C	Plastid	Sol
1530	gi 357512271	ribosE-5-phosphate isomerase A (<i>Medicago truncatula</i>)	2.31E-05	3.1	photosynthesis	C	Plastid	Sol
1532	gi 357512271	ribosE-5-phosphate isomerase A (<i>Medicago truncatula</i>)	5.27E-04	4	photosynthesis	C	Plastid	Sol

1534	gi 357512271	ribosE-5-phosphate isomerase A (<i>Medicago truncatula</i>)	1.46E-04	5.3	photosynthesis	C	Plastid	Sol
2267	gi 922402507	photosystem I reaction center subunit IV A (<i>Medicago truncatula</i>)	2.10E-02	2.9	photosynthesis	C	Plastid	Memb
956	gi 922379288	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.30E-02	1.5	proteolysis	S	Extracellular	Sol
961	gi 922379284	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	2.00E-03	1.9	proteolysis	S	Extracellular	Sol
962	gi 922379288	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	5.00E-03	1.8	proteolysis	S	Extracellular	Sol
964	gi 922379288	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	7.63E-04	2	proteolysis	S	Extracellular	Sol
978	gi 357448247	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	4.00E-03	1.5	proteolysis	S	Extracellular	Sol
983	gi 357448247	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	7.00E-03	1.7	proteolysis	S	Extracellular	Sol
1258	gi 922388614	lactoylglutathione lyase-like protein (<i>Medicago truncatula</i>)	6.00E-03	2.3	secondary metabolite metabolism	/	Cytoplasm	Sol
2242	gi 922395263	plant/F18G18-200 protein (<i>Medicago truncatula</i>)	2.00E-03	2	unknown function	S	Extracellular	Sol
2295	gi 922395263	plant/F18G18-200 protein (<i>Medicago truncatula</i>)	1.00E-03	2.3	unknown function	S	Extracellular	Sol
2296	gi 922395263	plant/F18G18-200 protein (<i>Medicago truncatula</i>)	1.00E-03	2.5	unknown function	S	Extracellular	Sol
Proteins of higher abundance in Cd-exposed plants								
1996	gi 7381205	prE-hevein-like protein (<i>Pisum sativum</i>)	5.26E-05	2.3	defence	/	Extracellular	Sol
2216	gi 695063425	polyubiquitin (<i>Musa acuminata</i> subsp. <i>malaccensis</i>)	1.80E-02	1.5	proteolysis	/	Cytoplasm	Sol
2134	gi 33327284	polyubiquitin 1 (<i>Phaseolus vulgaris</i>)	3.30E-02	1.5	proteolysis	/	Nucleus	Sol
1900	gi 695062350	polyubiquitin-like, partial (<i>Musa acuminata</i> subsp. <i>malaccensis</i>)	1.10E-02	1.6	proteolysis	/	Nucleus	Sol
904	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	7.00E-03	2.2	proteolysis	C	Extracellular	Sol
911	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.50E-02	2.2	proteolysis	C	Extracellular	Sol

917	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	2.90E-02	2.1	proteolysis	C	Extracellular	Sol
948	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.80E-02	1.5	proteolysis	C	Extracellular	Sol
955	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	5.00E-03	2.5	proteolysis	C	Extracellular	Sol
2239	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	2.40E-02	2.2	proteolysis	C	Extracellular	Sol
2240	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.60E-02	2.2	proteolysis	C	Extracellular	Sol
1174	gi 357474061	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	2.00E-03	2.5	carbohydrate metabolic process	S	Extracellular	Sol
1177	gi 922389309	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	1.00E-03	2.1	carbohydrate metabolic process	/	Cytoplasm	Sol
1184	gi 922389309	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	3.00E-03	2	carbohydrate metabolic process	/	Cytoplasm	Sol
1214	gi 357474069	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	3.10E-02	1.9	carbohydrate metabolic process	S	Extracellular	Sol
1223	gi 357474069	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	4.00E-03	2	carbohydrate metabolic process	S	Extracellular	Sol
2237	gi 922389309	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	1.00E-03	2.4	carbohydrate metabolic process	/	Cytoplasm	Sol
2238	gi 357474069	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	1.00E-03	2.4	carbohydrate metabolic process	S	Extracellular	Sol
1165	gi 922401927	allergen Pru protein, putative (<i>Medicago truncatula</i>)	1.00E-03	3.6	defence	S	Extracellular	Sol
1229	gi 922401937	allergen Pru protein, putative (<i>Medicago truncatula</i>)	5.91E-04	3.9	defence	S	Extracellular	Sol
1283	gi 922401937	allergen Pru protein, putative (<i>Medicago truncatula</i>)	2.00E-03	3	defence	S	Extracellular	Sol
1125	gi 922329699	Chitinase (Class Ib) / Hevein (<i>Medicago truncatula</i>)	8.12E-04	2.3	Defence	S	Lysosome/Vacuole	Sol
2263	gi 922329699	Chitinase (Class Ib) / Hevein (<i>Medicago truncatula</i>)	2.30E-02	1.8	Defence	S	Lysosome/Vacuole	Sol
2264	gi 922329699	Chitinase (Class Ib) / Hevein (<i>Medicago truncatula</i>)	8.00E-03	1.8	Defence	S	Lysosome/Vacuole	Sol

2294	gi 922329699	Chitinase (Class Ib) / Hevein (<i>Medicago truncatula</i>)	9.00E-03	1.7	Defence	S	Lysosome/Vacuole	Sol
1676	gi 922347233	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	3.50E-02	1.5	Defence	S	Extracellular	Sol
2000	gi 922403681	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	2.34E-04	3.3	Defence	S	Extracellular	Sol
2224	gi 922403683	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	1.00E-03	2.3	Defence	S	Extracellular	Sol
1399	gi 357443753	chitinase (<i>Medicago truncatula</i>)	4.25E-04	3	Defence	S	Extracellular	Sol
1416	gi 357443753	chitinase (<i>Medicago truncatula</i>)	2.00E-03	3.1	Defence	S	Extracellular	Sol
1419	gi 357443753	chitinase (<i>Medicago truncatula</i>)	3.20E-04	3.6	Defence	S	Extracellular	Sol
1360	gi 228204925	chitinase class III-1 (<i>Medicago sativa</i>)	7.63E-04	1.9	Defence	S	Extracellular	Sol
1372	gi 228204925	chitinase class III-1 (<i>Medicago sativa</i>)	2.00E-03	2.4	Defence	S	Extracellular	Sol
2253	gi 228204925	chitinase class III-1 (<i>Medicago sativa</i>)	6.27E-04	2	Defence	S	Extracellular	Sol
1225	gi 1800141	class I chitinase (<i>Medicago sativa</i>)	3.00E-03	1.9	Defence	S	Lysosome/Vacuole	Sol
1279	gi 1800141	class I chitinase (<i>Medicago sativa</i>)	1.00E-03	2.2	Defence	S	Lysosome/Vacuole	Sol
2249	gi 1800141	class I chitinase (<i>Medicago sativa</i>)	6.00E-03	1.8	Defence	S	Lysosome/Vacuole	Sol
2259	gi 1800141	class I chitinase (<i>Medicago sativa</i>)	3.00E-03	1.9	Defence	S	Lysosome/Vacuole	Sol
2266	gi 1800141	class I chitinase (<i>Medicago sativa</i>)	1.10E-02	1.8	Defence	S	Lysosome/Vacuole	Sol
912	gi 922325015	disease resistance response protein (<i>Medicago truncatula</i>)	4.09E-04	2	defence	S	Lysosome/Vacuole	Sol
1531	gi 922338021	pathogenesis-related thaumatin family protein (<i>Medicago truncatula</i>)	7.61E-04	1.7	defence	S	Extracellular	Sol
1540	gi 922338021	pathogenesis-related thaumatin family protein (<i>Medicago truncatula</i>)	2.00E-03	2.4	defence	S	Extracellular	Sol
2246	gi 922338023	pathogenesis-related thaumatin family protein (<i>Medicago truncatula</i>)	2.00E-03	4.9	defence	S	Extracellular	Sol
1549	gi 922407517	plant basic secretory protein (BSP) family protein (<i>Medicago truncatula</i>)	4.00E-03	1.8	defence	S	Extracellular	Sol
1550	gi 922407517	plant basic secretory protein (BSP) family protein (<i>Medicago truncatula</i>)	4.00E-03	2	defence	S	Extracellular	Sol
1332	gi 357511665	rhicadhesin receptor (<i>Medicago truncatula</i>)	2.00E-03	2.3	nutrient reserve	S	Extracellular	Sol

926	gi 922380311	anionic peroxidase swpb3 protein (<i>Medicago truncatula</i>)	2.90E-02	1.8	oxidation-reduction process	S	Extracellular	Sol
1109	gi 357491415	class III peroxidase (<i>Medicago truncatula</i>)	1.20E-02	1.6	oxidation-reduction process	S	Extracellular	Sol
1186	gi 357491415	class III peroxidase (<i>Medicago truncatula</i>)	2.50E-02	1.8	oxidation-reduction process	S	Extracellular	Sol
2256	gi 357491415	class III peroxidase (<i>Medicago truncatula</i>)	1.20E-02	1.8	oxidation-reduction process	S	Extracellular	Sol
1150	gi 13992528	peroxidase2 (<i>Medicago sativa</i>)	1.10E-02	2	oxidation-reduction process	S	Extracellular	Sol
2232	gi 922335020	plastocyanin-like domain protein (<i>Medicago truncatula</i>)	3.60E-02	1.4	oxidation-reduction process	S	Cell Memb	Memb
1445	gi 922336321	carboxyl-terminal peptidase (<i>Medicago truncatula</i>)	4.00E-03	1.7	proteolysis	S	Cell Memb	Memb
1971	gi 357437719	papain family cysteine protease (<i>Medicago truncatula</i>)	7.00E-03	1.9	proteolysis	S	Lysosome/Vacuole	Sol
2273	gi 922333118	subtilisin-like serine protease (<i>Medicago truncatula</i>)	3.20E-02	1.4	proteolysis	S	Extracellular	Sol

# spot	Identification	Assigned protein	p-value	FC	Functional class	TargetP	Localisation ^a	Type ^{a,b}
<u>LiCl fraction</u>								
<i>Proteins of lower abundance in Cd-exposed plants</i>								
717	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	2.60E-02	1.5	cell wall modification	S	Extracellular	Sol
718	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	1.80E-02	1.6	cell wall modification	S	Extracellular	Sol
788	gi 922335981	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	2.10E-02	1.8	cell wall modification	S	Extracellular	Sol
794	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	2.20E-02	1.6	cell wall modification	S	Extracellular	Sol
819	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	8.00E-03	1.6	cell wall modification	S	Extracellular	Sol
827	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	5.00E-03	1.9	cell wall modification	S	Extracellular	Sol

832	gi 922335979	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	6.00E-03	2.1	cell wall modification	S	Extracellular	Sol
870	gi 922335981	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	4.25E-05	4.3	cell wall modification	S	Extracellular	Sol
878	gi 922335981	polygalacturonase non-catalytic protein (<i>Medicago truncatula</i>)	2.50E-06	4.7	cell wall modification	S	Extracellular	Sol
181	gi 357513969	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	1.70E-02	1.3	nutrient reserve	S	Extracellular	Sol
1338	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	4.30E-02	1.5	nutrient reserve	S	Extracellular	Sol
1342	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	1.60E-02	1.7	nutrient reserve	S	Extracellular	Sol
1350	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	4.00E-03	1.7	nutrient reserve	S	Extracellular	Sol
1355	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	1.40E-02	1.7	nutrient reserve	S	Extracellular	Sol
1359	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	2.19E-04	1.5	nutrient reserve	S	Extracellular	Sol
1361	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	7.00E-03	2.1	nutrient reserve	S	Extracellular	Sol
1369	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	3.00E-03	2.3	nutrient reserve	S	Extracellular	Sol
1628	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	1.10E-02	1.4	nutrient reserve	S	Extracellular	Sol
2254	gi 357513539	stem 28 kDa glycoprotein (<i>Medicago truncatula</i>)	7.00E-03	2.1	nutrient reserve	S	Extracellular	Sol
Proteins of higher abundance in Cd-exposed plants								
2012	gi 922395829	pentameric polyubiquitin (<i>Medicago truncatula</i>)	3.90E-02	1.9	proteolysis	/	Cytoplasm	Sol
2026	gi 732558989	polyubiquitin 11, partial (<i>Pinus massoniana</i>)	3.00E-02	1.9	proteolysis	/	Nucleus	Sol
2057	gi 695062350	polyubiquitin-like, partial (<i>Musa acuminata</i> subsp. <i>malaccensis</i>)	7.00E-03	1.9	proteolysis	/	Nucleus	Sol
928	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	8.00E-03	2	proteolysis	C	Extracellular	Sol
933	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	2.00E-03	2	proteolysis	C	Extracellular	Sol

952	gi 922327497	eukaryotic aspartyl protease family protein (<i>Medicago truncatula</i>)	1.70E-02	2.4	proteolysis	C	Extracellular	Sol
1194	gi 357474069	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	1.20E-02	2.6	carbohydrate metabolic process	S	Extracellular	Sol
1195	XP_003607319	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	2.00E-03	2.5	carbohydrate metabolic process	S	Extracellular	Sol
1201	gi 357474069	glucan endo-1,3-beta-glucosidase (<i>Medicago truncatula</i>)	1.00E-03	3.4	carbohydrate metabolic process	S	Extracellular	Sol
1292	gi 357454031	glycoside hydrolase family 18 protein (<i>Medicago truncatula</i>)	3.00E-03	2.8	carbohydrate metabolic process	S	Lysosome/Vacuole	Sol
1097	gi 922401927	allergen Pru protein, putative (<i>Medicago truncatula</i>)	7.09E-06	4.5	defence	S	Extracellular	Sol
1166	gi 922401937	allergen Pru protein, putative (<i>Medicago truncatula</i>)	8.18E-06	4.8	defence	S	Extracellular	Sol
1236	gi 922401927	allergen Pru protein, putative (<i>Medicago truncatula</i>)	1.00E-03	4	defence	S	Extracellular	Sol
1088	gi 922329699	Chitinase (Class Ib) / Hevein (<i>Medicago truncatula</i>)	1.90E-02	2.2	Defence	S	Lysosome/Vacuole	Sol
1112	gi 922329699	Chitinase (Class Ib) / Hevein (<i>Medicago truncatula</i>)	7.00E-03	2.7	Defence	S	Lysosome/Vacuole	Sol
1571	gi 922347233	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	7.00E-03	2.4	Defence	S	Extracellular	Sol
1807	gi 922403683	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	8.00E-03	1.6	Defence	S	Extracellular	Sol
1844	gi 922403681	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	2.20E-02	2	Defence	S	Extracellular	Sol
2242	gi 922403685	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	5.10E-05	3	Defence	S	Extracellular	Sol
2252	gi 922403685	Chitinase / Hevein / PR-4 / Wheatwin2 (<i>Medicago truncatula</i>)	2.02E-04	3.3	Defence	S	Extracellular	Sol
1666	gi 922338023	pathogenesis-related thaumatin family protein (<i>Medicago truncatula</i>)	4.00E-03	5	defence	S	Extracellular	Sol
1516	gi 922390231	auxin-binding protein ABP19a (<i>Medicago truncatula</i>)	3.00E-02	1.5	nutrient reserve	S	Extracellular	Sol
1306	gi 357511665	rhicadhesin receptor (<i>Medicago truncatula</i>)	8.53E-04	2.2	nutrient reserve	S	Extracellular	Sol

843	gi 537317	peroxidase (<i>Medicago sativa</i>)	4.10E-02	1.5	oxidation-reduction process	S	Extracellular	Sol
848	gi 537317	peroxidase (<i>Medicago sativa</i>)	9.25E-04	1.8	oxidation-reduction process	S	Extracellular	Sol
849	gi 537317	peroxidase (<i>Medicago sativa</i>)	1.94E-04	2.6	oxidation-reduction process	S	Extracellular	Sol
854	gi 537317	peroxidase (<i>Medicago sativa</i>)	2.00E-03	2.1	oxidation-reduction process	S	Extracellular	Sol
2240	gi 537317	peroxidase (<i>Medicago sativa</i>)	5.93E-04	1.9	oxidation-reduction process	S	Extracellular	Sol
2241	gi 537317	peroxidase (<i>Medicago sativa</i>)	6.05E-04	1.9	oxidation-reduction process	S	Extracellular	Sol
2244	gi 537317	peroxidase (<i>Medicago sativa</i>)	8.00E-03	3.2	oxidation-reduction process	S	Extracellular	Sol
959	gi 357448431	peroxidase family protein (<i>Medicago truncatula</i>)	2.80E-02	1.2	oxidation-reduction process	S	Extracellular	Sol
900	gi 971560	peroxidase1B (<i>Medicago sativa</i>)	3.60E-02	1.4	oxidation-reduction process	S	Extracellular	Sol
958	gi 971560	peroxidase1B (<i>Medicago sativa</i>)	2.10E-02	1.6	oxidation-reduction process	S	Extracellular	Sol
2261	gi 971560	peroxidase1B (<i>Medicago sativa</i>)	4.00E-03	1.9	oxidation-reduction process	S	Extracellular	Sol
1250	gi 357437715	papain family cysteine protease (<i>Medicago truncatula</i>)	8.00E-03	1.7	proteolysis	S	Lysosome/Vacuole	Sol