

Figure S1. VLNs were present in *Allium* vegetables. (A) NTA analysis showed the sizes of VLNs from *Allium* vegetables using a NanoSight NS300. (B) Yields of VLNs from six *Allium* vegetables. (C) Flow cytometry analysis of BMDMs using F4/80-APC and CD11b-PE antibodies. Isotype-APC and isotype-PE antibodies were used as antibody controls. (D) Immunoblot analysis of Casp1 p10 in cell lysates of BMDMs preincubated with *Allium*-derived VLNs for 16 h, followed by LPS priming and ATP treatment to activate the NLRP3 inflammasome. Tubulin was included to show equivalent loading in immunoblot analysis.

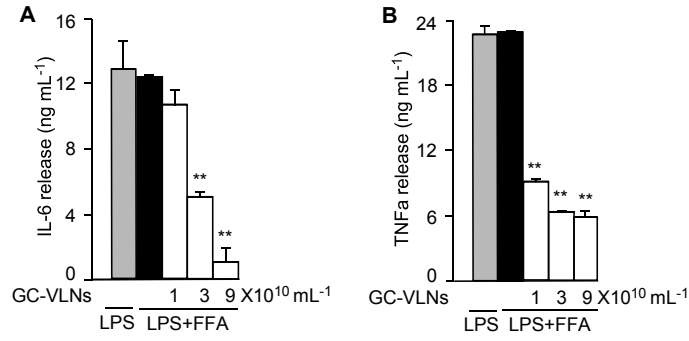


Figure S2. GC-VLNs inhibited release of IL-6 and TNF α . The cell-free culture media from Figure 2 were used to measure the levels of IL-6 (A) and TNF α (B) using ELISA kits. Results were expressed as mean \pm SEM from three independent experiments. * ($p<0.05$) and ** ($p<0.01$) compared with LPS+FFA group (black bar).

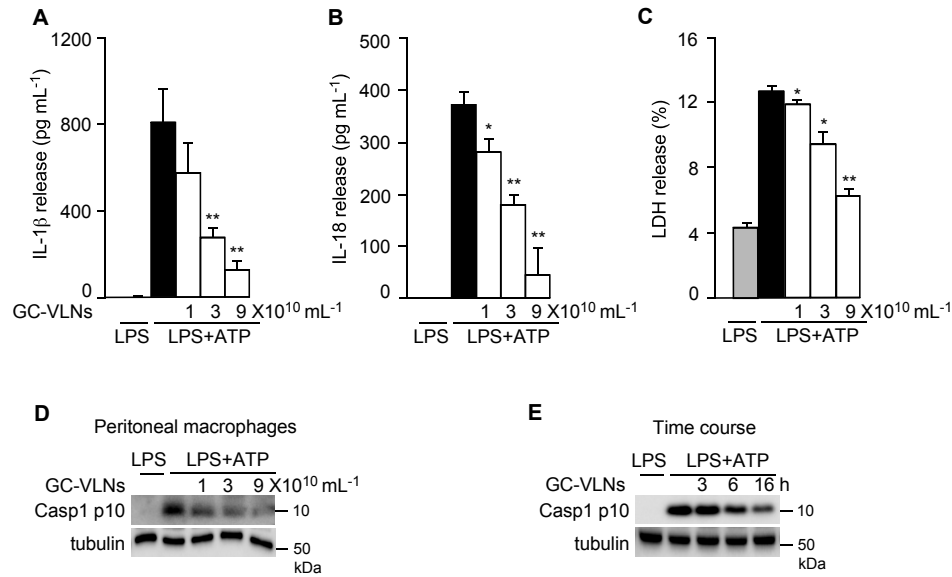


Figure S3. GC-VLNs inhibited NLRP3 inflammasome activated by ATP. (A-C) BMDMs were preincubated with GC-VLNs for 16 h, primed with LPS for 3 h, and stimulated with ATP for 30 min to activate the NLRP3 inflammasome. The levels of IL-1 β (A) and IL-18 (B) in the media were measured. (C) Pyroptotic cell death. (D) Immunoblot analysis of Casp1 p10 in lysates of peritoneal macrophages preincubated with GC-VLNs, followed by NLRP3 inflammasome activation. (E) Immunoblot analysis of Casp1 p10 in lysates of BMDMs preincubated with GC-VLNs for 3, 6, or 16 h, followed by NLRP3 inflammasome activation. Results were expressed as mean \pm SEM from three independent experiments. * ($p < 0.05$) and ** ($p < 0.01$) compared with LPS+ATP group (black bar).

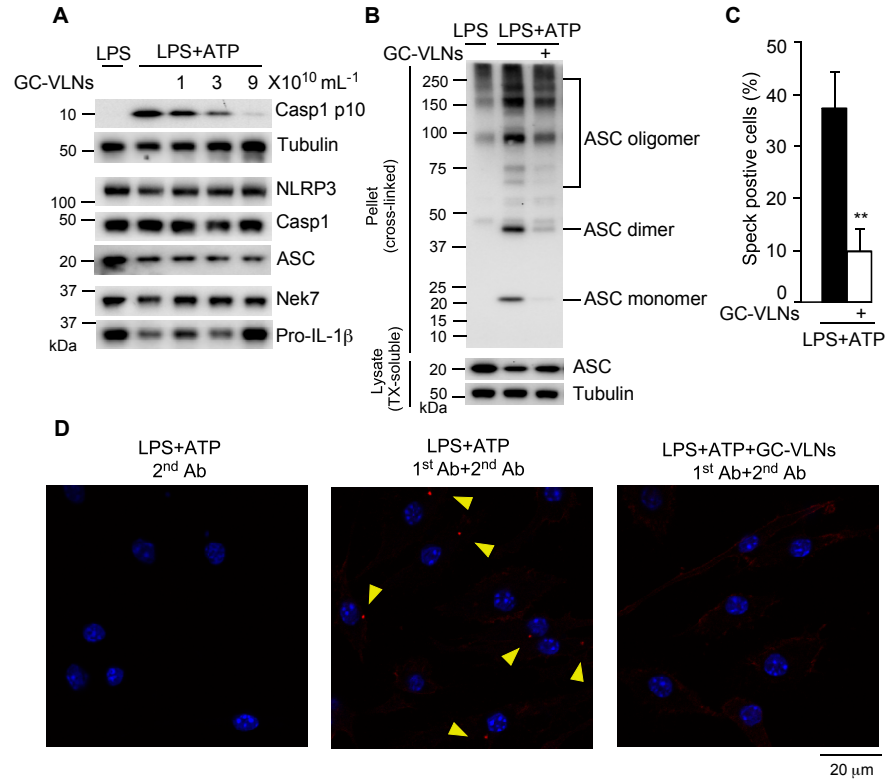


Figure S4. GC-VLNs impeded formation of NLRP3 inflammasome complex. (A)

Immunoblot analysis of cell lysates of BMDMs preincubated with GC-VLNs, followed by LPS+ATP treatment to activate the NLRP3 inflammasome. **(B)** Immunoblot analysis of Triton X-100 (TX)-soluble fraction and Triton X-100 insoluble fraction (pellet) in the ASC oligomerization assay. The pellet was cross-linked using disuccinimidyl suberate to retain ASC dimers and oligomers. $3 \times 10^{10} \text{ mL}^{-1}$ of GC-VLNs were used. **(C)** Quantification and **(D)** Representative images of the speck positive BMDMs in ASC immunofluorescence staining. Casp1 inhibitor VX765 ($10 \mu\text{M}$) was added to cells 30 min before ATP treatment to stabilize the inflammasome complex, which was then stained as a single speck (yellow arrows) with an anti-ASC antibody. $1 \times 10^{10} \text{ mL}^{-1}$ of GC-VLNs were used. 1st Ab: anti-ASC primary antibody; 2nd Ab: Alexa Fluor-594 conjugated secondary antibody. The cell nuclei were stained with

4',6-diamidino-2-phenylindole (DAPI). Results were expressed as mean±SEM from three independent experiments. ** (p<0.01) compared with LPS+ATP group (black bar).

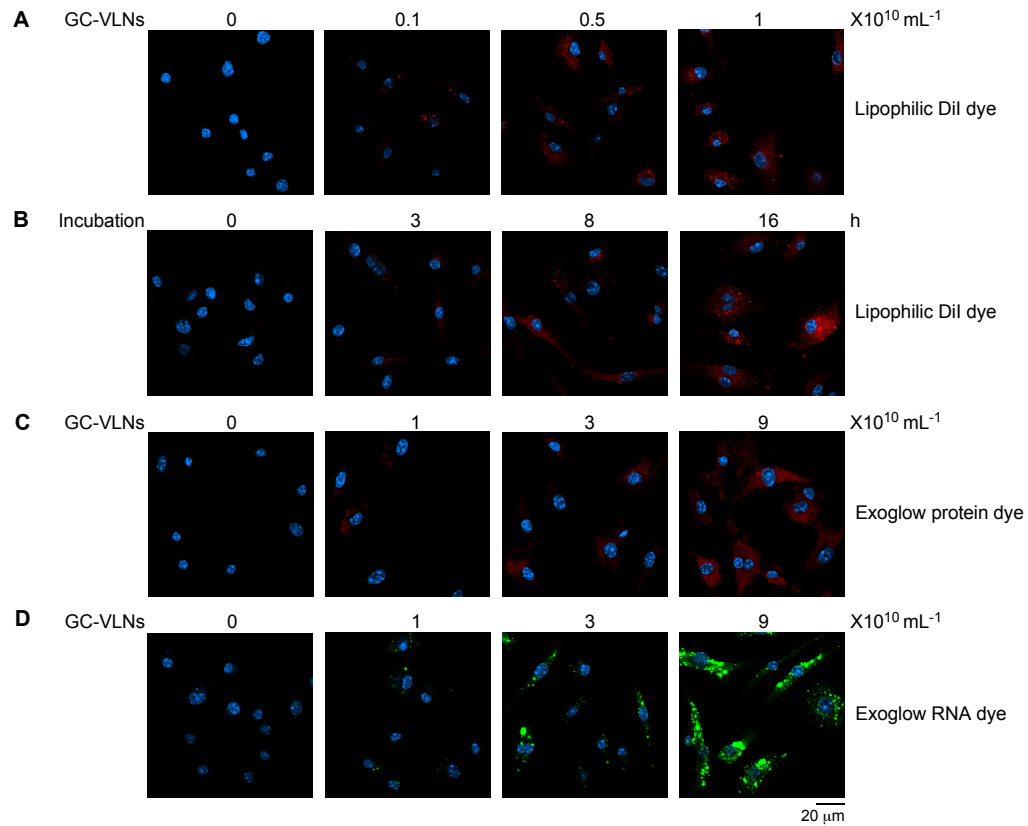


Figure S5. GC-VLNs were taken up by BMDMs. (A) Lipophilic dye DiI-labeled GC-VLNs were incubated with BMDMs for 16 h. (B) 1×10^{10} mL $^{-1}$ of DiI-labeled GC-VLNs were incubated with BMDMs for different time. (C) Exoglow protein dye-labeled GC-VLNs were incubated with BMDMs for 16 h. (D) Exoglow RNA dye-labeled GC-VLNs were incubated with BMDMs for 16 h. After nanoparticle incubation, cells were washed with PBS extensively and fixed with formaldehyde. Images were acquired with an A1R-Ti2 confocal system (Nikon). DAPI was included to stain nuclei.

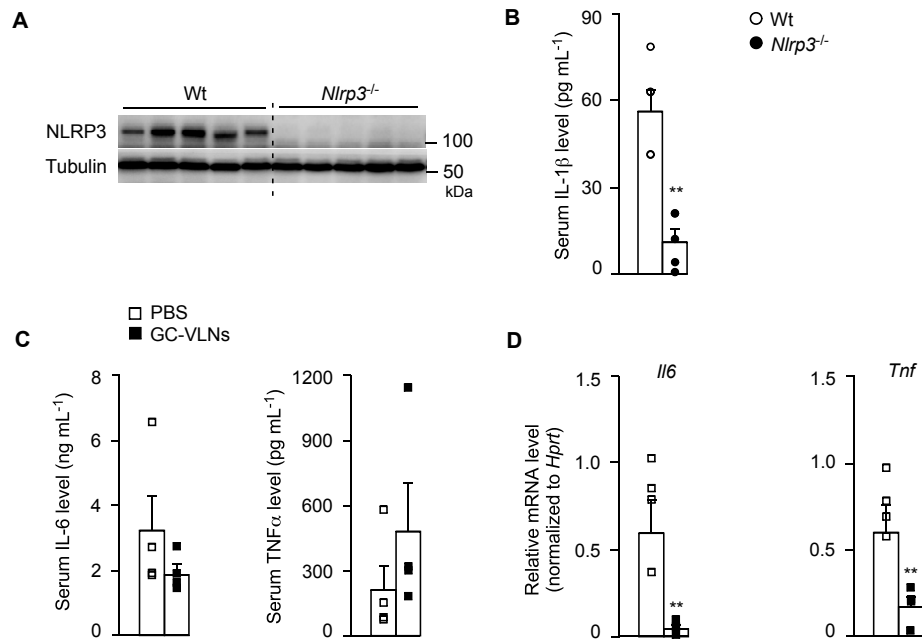


Figure S6. Chemical-induced acute liver injury in wt and *Nlrp3*-deficient mice and effects of GC-VLNs on IL-6 and TNF α in this disease model. 8-week-old female wt and *Nlrp3*-deficient littermates were intraperitoneally injected with a mixture of LPS and GalN and sacrificed after 6 h. N=5/group. **(A)** Immunoblot analysis of liver lysates of wt and *Nlrp3*-deficient littermates. **(B)** Levels of IL-1 β in serum of wt and *Nlrp3*-deficient littermates. **(C-D)** The serum and liver samples from Figure 3 were subjected to cytokine measurement and gene expression analysis, respectively. **(C)** Levels of IL-6 and TNF α in serum. **(D)** Relative mRNA levels of *Il6* and *Tnf* genes in the livers. The housekeeping gene *Hprt* was used to normalize mRNA levels. Data were presented as mean \pm SEM. * ($p < 0.05$) and ** ($p < 0.01$) compared with the control group (bar with white squares or circles).

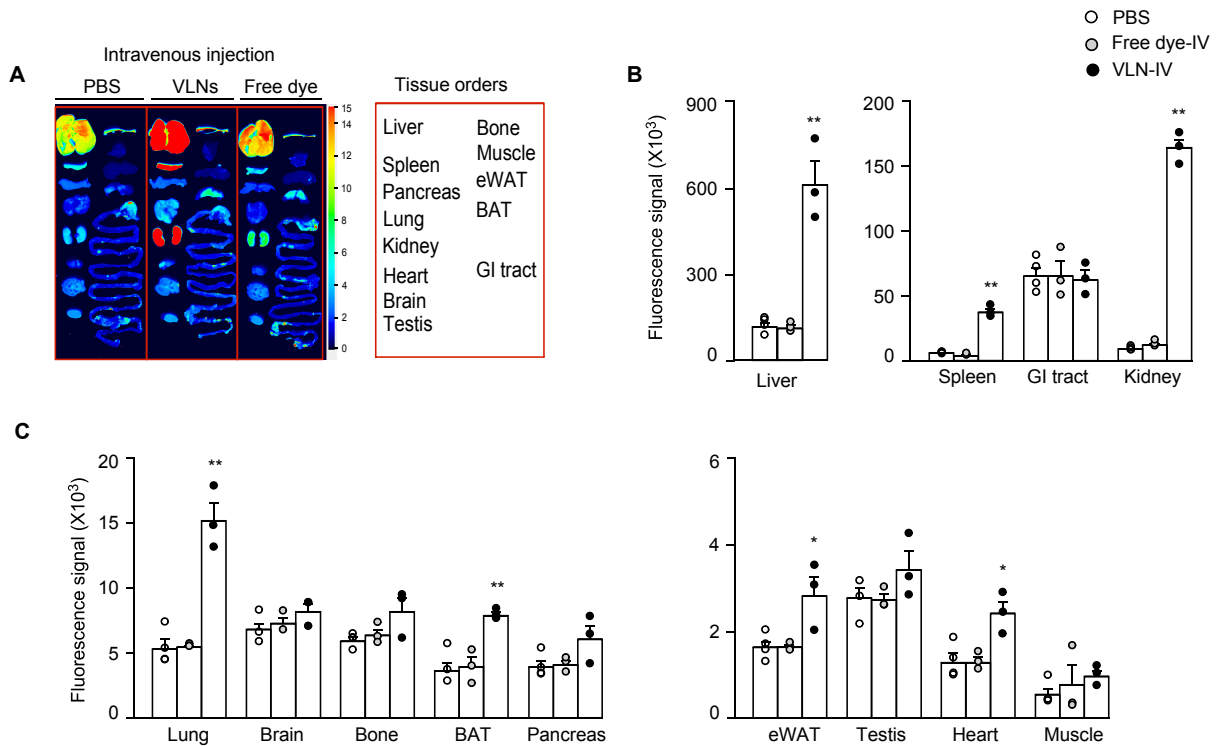


Figure S7. Distribution of intravenously injected GC-VLNs in lean mice. GC-VLNs were covalently labeled with a fluorescence dye in near infrared ranges. The labeled GC-VLNs or free dye were intravenously administered at $3,500 \text{ FI g}^{-1}$ to 8-week-old male C57BL/6J mice. The solvent PBS was intravenously administered to the control group. 6 h later, the mice were sacrificed to collect tissues to measure the fluorescence signals in each type of tissue. $N=3-4/\text{group}$. **(A)** Representative images of mouse tissues under Licor Odyssey Clx image system. **(B-C)** Fluorescence signal intensity of mouse tissues collected from mice. VLN-IV: mice intravenously injected with GC-VLNs. Data were presented as $\text{mean} \pm \text{SEM}$. * ($p < 0.05$) and ** ($p < 0.01$) compared with the control PBS group (bar with white circles).

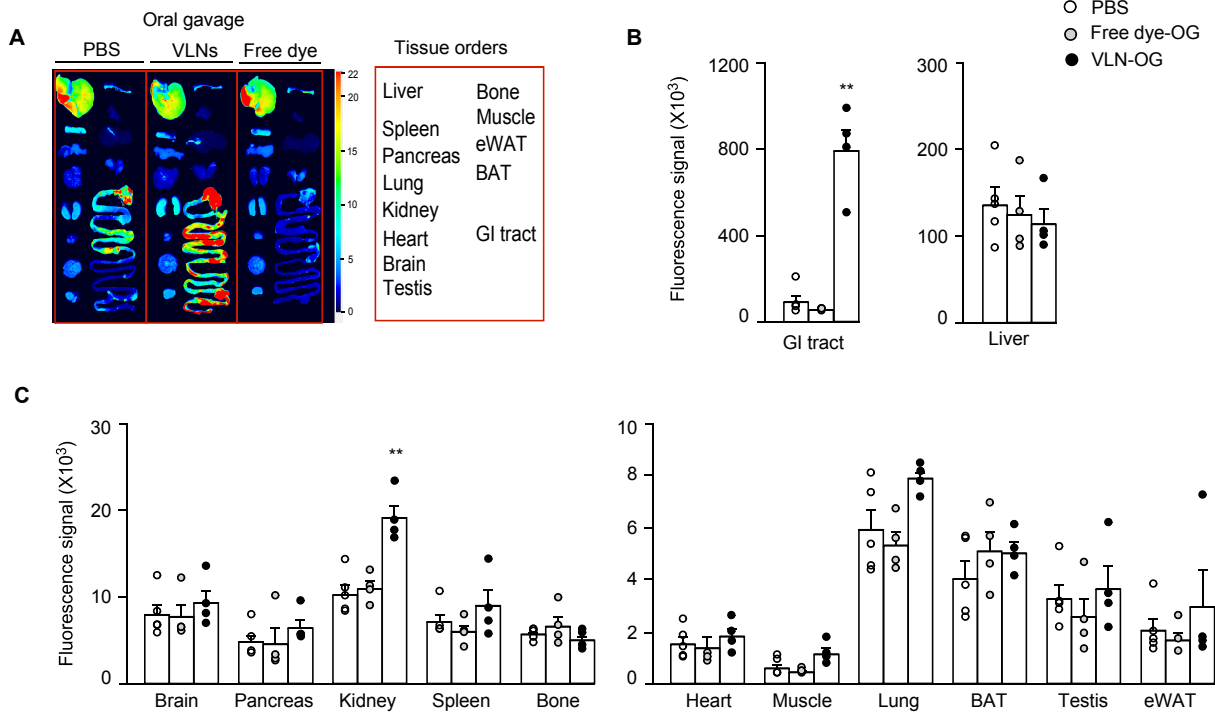


Figure S8. Distribution of orally administered GC-VLNs in lean mice. GC-VLNs were covalently labeled with a fluorescence dye in near infrared ranges. The labeled GC-VLNs were orally administered at $60,000 \text{ FI g}^{-1}$ to 8-week-old male C57BL/6J mice. The free dye at $7,000 \text{ FI g}^{-1}$ was orally given to the free dye group, and the solvent PBS was orally given to the control group. 6 h later, the mice were sacrificed to collect tissues to measure the fluorescence signals in each type of tissue. $N=4-5/\text{group}$. **(A)** Representative images of mouse tissues under Licor Odyssey Clx image system. **(B-C)** Fluorescence signal intensity of mouse tissues collected from mice. VLN-OG: mice orally gavaged with GC-VLNs. Data were presented as $\text{mean} \pm \text{SEM}$. * ($p < 0.05$) and ** ($p < 0.01$) compared with the control PBS group (bar with white circles).

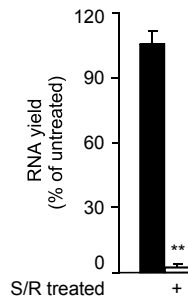


Figure S9. Majority of RNAs in GC-VLNs were depleted after sonication plus RNase treatment. GC-VLNs were added with $10 \mu\text{g mL}^{-1}$ of RNase, subjected to bath sonication at room temperature for 1.5 h, and incubated at 37°C for an additional 1 h to degrade RNAs inside the nanoparticles (S/R-treated). The resulting GC-VLNs were subjected to RNA extraction, followed by RNA yield measurement. The untreated same amount of GC-VLNs was subjected to RNA extraction and served as controls. Data were presented as mean \pm SEM from three independent experiments. ** ($p < 0.01$) compared with the control samples (black bar).

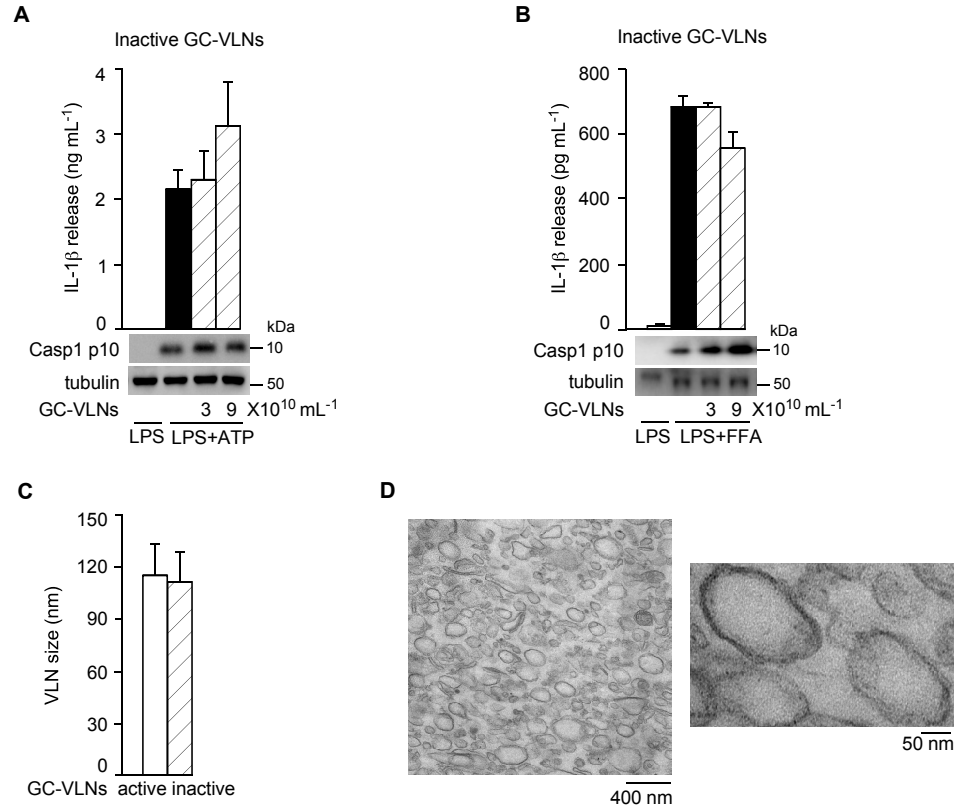


Figure S10. Identification of inactive GC-VLNs. (A-B) Inactive GC-VLNs had no inhibitory effects on IL-1 β release and Casp1 autocleavage when the NLRP3 inflammasome was activated by LPS+ATP (A) or LPS+FFA (B). (C) NTA analysis showed comparable sizes of active and inactive GC-VLNs. N=11-13/group. (D) Ultrastructure TEM images of inactive GC-VLNs. Data were presented as mean \pm SEM.

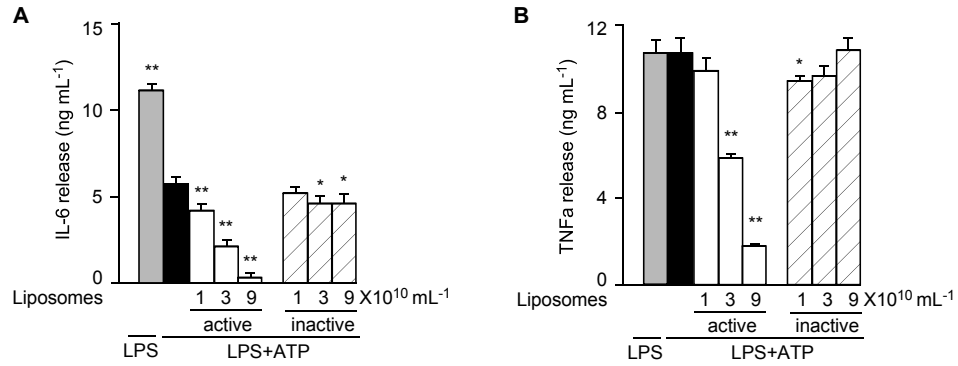


Figure S11. Effects of lipids from active and inactive GC-VLNs on release of IL-6 and TNF α . Liposomes prepared from lipids of active GC-VLNs, but not liposomes from inactive GC-VLN lipids, inhibited release of IL-6 (A) and TNF α (B). Results were expressed as mean \pm SEM from three or four independent experiments. * (p<0.05) and ** (p<0.01) compared with LPS+ATP group (black bar).

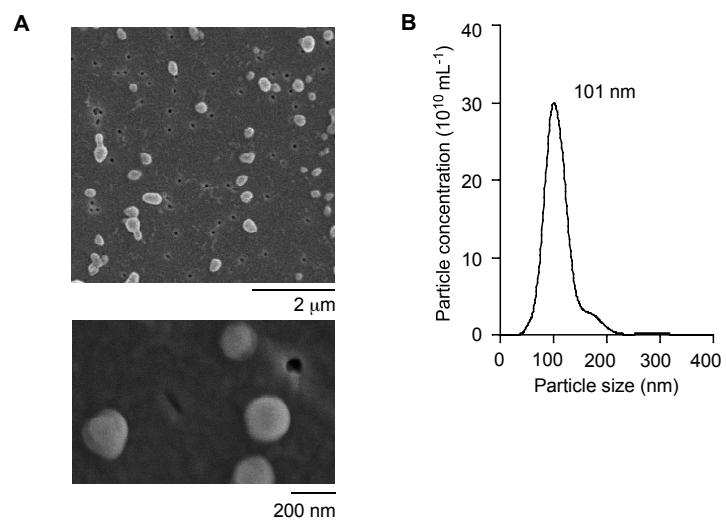


Figure S12. DLPC were verified to form nanoparticles. (A) Representative SEM images of liposomes prepared from DLPC. (B) NTA analysis showed the size of DLPC-derived liposomes using a NanoSight NS300.

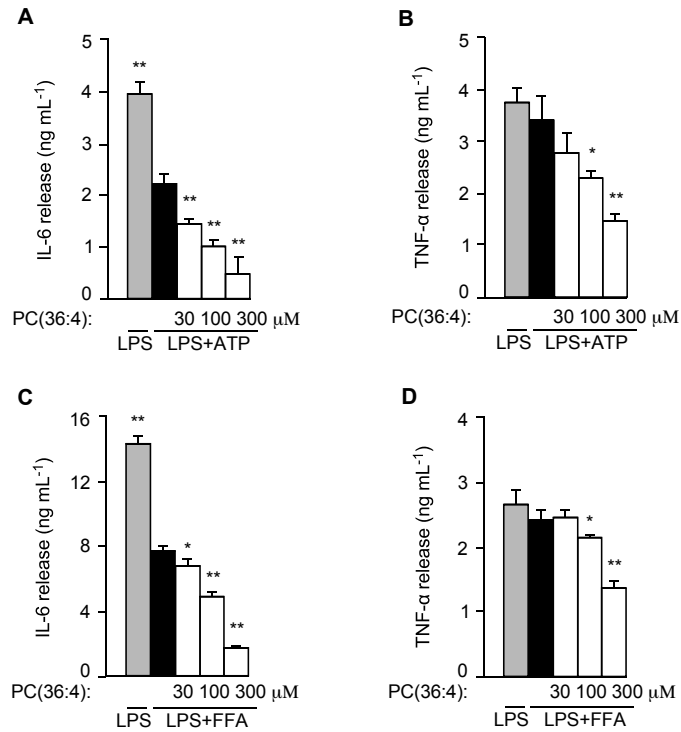


Figure S13. DLPC liposomes suppressed release of IL-6 and TNF α in BMDMs. BMDMs

were preincubated with DLPC liposomes (PC(36:4)) for 16 h, followed by treatment of LPS+ATP (A-B) or LPS+FFA (C-D) to activate the NLRP3 inflammasome. Cell-free media were used to measure the levels of IL-6 and TNF α . Results were expressed as mean \pm SEM from three independent experiments. * (p<0.05) and ** (p<0.01) compared with LPS+ATP or LPS+FFA group (black bar).

Table S1 Protein profiles of GC-VLNs

List of Proteins identified using Mascot v2.6.1 and summarized in Scaffold v4.8.9. The databases searched were the cRAP_20150130.fasta and uniprot-viri
Proteins with shared peptides are grouped together into clusters and indicated with the same #

#	Identified Proteins (922)	Accession Number	Total Unique Peptide Count		
			replicate1	replicate2	replicate3
1.1	Ribulose biphosphate carboxylase large chain (Fragment) OS=Tabebuia heterophylla OX=39 RBL_TABHE		23	24	25
1.2	Ribulose biphosphate carboxylase large chain (Fragment) OS=Lobelia sp. OX=4383 GN=rbcL RBL_LOBSP		14	13	16
1.3	Ribulose biphosphate carboxylase large chain (Fragment) OS=Ephedra sinica OX=33152 GN RBL_EPHSI		18	18	20
1.4	Ribulose biphosphate carboxylase large chain (Fragment) OS=Fleroya rubrostipulata OX=43 RBL_FLERU		19	17	17
1.5	Ribulose biphosphate carboxylase large chain (Fragment) OS=Kigelia africana OX=70070 GN RBL_KIGAF		20	21	22
1.6	Ribulose biphosphate carboxylase large chain (Fragment) OS=Hedera helix OX=4052 GN=rb RBL_HEDHE		18	17	19
1.7	Ribulose biphosphate carboxylase large chain (Fragment) OS=Callicarpa dichotoma OX=28 RBL_CALDI		13	13	14
1.8	Ribulose biphosphate carboxylase large chain OS=Acorus americanus OX=263995 GN=rbcL RBL_ACOAM (+1)		25	24	26
1.9	Ribulose biphosphate carboxylase large chain (Fragment) OS=Bauera rubioides OX=23051 GN RBL_BAURU		17	17	18
1.10	Ribulose biphosphate carboxylase large chain (Fragment) OS=Serenoa repens OX=4722 GN= RBL_SERRE		25	27	27
1.11	Ribulose biphosphate carboxylase large chain OS=Physcomitrella patens subsp. patens OX= RBL_PHYPA		21	21	22
1.12	Ribulose biphosphate carboxylase large chain OS=Jasminum nudiflorum OX=126431 GN=r RBL_JASNU				17
1.13	Ribulose biphosphate carboxylase large chain OS=Lolium perenne OX=4522 GN=rbcL PE=3 RBL_LOLPR		20	22	22
1.14	Ribulose biphosphate carboxylase large chain (Fragment) OS=Convolvulus tricolor OX=412 RBL_CONTR		16	17	18
1.15	Ribulose biphosphate carboxylase large chain OS=Phytolacca americana OX=3527 GN=rbcL RBL_PHYAM			13	
1.16	Ribulose biphosphate carboxylase large chain (Fragment) OS=Cornus kousa OX=28501 GN= RBL_CORKO			11	11
1.17	Ribulose biphosphate carboxylase large chain (Fragment) OS=Symphoricarpos albus OX=13 RBL_SYMAL		16	16	
1.18	Ribulose biphosphate carboxylase large chain (Fragment) OS=Eriodictyon californicum OX= RBL_ERICA			14	
1.19	Ribulose biphosphate carboxylase large chain (Fragment) OS=Chiococca alba OX=28527 GN RBL_CHIAL		16	17	18
1.20	Ribulose biphosphate carboxylase large chain OS=Cuscuta sandwichiana OX=197374 GN=r RBL_CUSSA		10	10	
1.21	Ribulose biphosphate carboxylase large chain OS=Stigeoclonium helveticum OX=55999 GN RBL_STIHE			10	
1.22	Ribulose biphosphate carboxylase large chain (Fragment) OS=Pelargonium grandiflorum OX= RBL_PELGR		16	16	18
1.23	Ribulose biphosphate carboxylase large chain OS=Bryopsis maxima OX=3129 GN=rbcL PE=3 RBL_BRYMA		14	13	15
1.24	Ribulose biphosphate carboxylase large chain OS=Viburnum acerifolium OX=4205 GN=rbcL RBL_VIBAC			19	
1.25	Ribulose biphosphate carboxylase large chain OS=Barbarea verna OX=50458 GN=rbcL PE=3 RBL_BARVE			15	
1.26	Ribulose biphosphate carboxylase large chain (Fragment) OS=Nicandra physalodes OX=331 RBL_NICPH		13		
1.27	Ribulose biphosphate carboxylase large chain OS=Cuscuta exaltata OX=476139 GN=rbcL PE RBL_CUSEX				14
2.1	ATP synthase subunit beta, mitochondrial OS=Nicotiana glauca OX=4092 GN=ATP B RBL_ATPB		25	23	24

2.2	ATP synthase subunit beta, mitochondrial OS=Zea mays OX=4577 GN=ATPB PE=2 SV=1	ATPBM_MAIZE	24	24	25
2.3	ATP synthase subunit beta, mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=A ATPBM_ORYSJ		24	24	25
2.4	ATP synthase subunit beta, mitochondrial OS=Daucus carota OX=4039 GN=ATPB PE=3 SV=1	ATPBM_DAUCA		10	
3.1	ATP synthase subunit alpha, mitochondrial OS=Marchantia polymorpha OX=3197 GN=ATPA ATPAM_MARPO		15	15	14
3.2	ATP synthase subunit alpha, chloroplastic OS=Oenothera argillicola OX=3940 GN=atpA PE=3 ATPA_OENAR (+1)		13	12	12
3.3	ATP synthase subunit alpha, chloroplastic OS=Spinacia oleracea OX=3562 GN=atpA PE=1 SV=	ATPA_SPIOL	10	11	11
3.4	ATP synthase subunit alpha, chloroplastic OS=Stigeoclonium helveticum OX=55999 GN=atp ATPA_STIHE		5	5	
3.5	ATP synthase subunit alpha, mitochondrial OS=Nicotiana plumbaginifolia OX=4092 GN=ATF ATPAM_NICPL		19	18	18
4.1	V-type proton ATPase catalytic subunit A OS=Daucus carota OX=4039 PE=2 SV=1	VATA_DAUCA	33	31	34
4.2	V-type proton ATPase catalytic subunit A (Fragment) OS=Zea mays OX=4577 PE=2 SV=1	VATA_MAIZE	25	24	24
4.3	V-type proton ATPase catalytic subunit A OS=Beta vulgaris OX=161934 PE=2 SV=1	VATA_BETVU	20	21	21
4.4	V-type proton ATPase catalytic subunit A OS=Arabidopsis thaliana OX=3702 GN=VHA-A PE=1	VATA_ARATH	26	24	26
4.5	V-type proton ATPase catalytic subunit A OS=Citrus unshiu OX=55188 PE=2 SV=1	VATA_CITUN	29		29
4.6	V-type proton ATPase catalytic subunit A OS=Gossypium hirsutum OX=3635 GN=CVA69.24	VATA_GOSHI	28	26	27
4.7	V-type proton ATPase catalytic subunit A (Fragment) OS=Hordeum vulgare OX=4513 PE=2 SV=	VATA_HORVU		20	
5.1	V-type proton ATPase subunit B2 OS=Arabidopsis thaliana OX=3702 GN=VHA-B2 PE=1 SV=1	VATB2_ARATH	33	31	33
5.2	V-type proton ATPase subunit B 2 (Fragment) OS=Gossypium hirsutum OX=3635 PE=2 SV=1	VATB2_GOSHI	17	16	17
5.3	V-type proton ATPase subunit B3 OS=Arabidopsis thaliana OX=3702 GN=VHA-B3 PE=2 SV=1	VATB3_ARATH	28	27	28
6.1	Pyrophosphate-energized vacuolar membrane proton pump OS=Vigna radiata var. radiata O	AVP_VIGRR	17	16	17
6.2	Pyrophosphate-energized vacuolar membrane proton pump OS=Hordeum vulgare OX=4513	AVP_HORVU	15	14	15
6.3	Pyrophosphate-energized vacuolar membrane proton pump 1 OS=Arabidopsis thaliana OX=	AVP1_ARATH	15	13	15
7.1	Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic OS=Spinacia oleracea	RCA_SPIOL	6	7	7
7.2	Ribulose biphosphate carboxylase/oxygenase activase 2, chloroplastic OS=Larrea tridentat	RCA2_LARTR	8	10	8
7.3	Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic OS=Vigna radiata var.	RCA_VIGRR	9	9	9
7.4	Ribulose biphosphate carboxylase/oxygenase activase 1, chloroplastic OS=Nicotiana tabac	RCA1_TOBAC	12	12	11
7.5	Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic OS=Zea mays OX=4577	RCA_MAIZE	6	6	5
7.6	Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic OS=Chlamydomonas r	RCA_CHLRE	3	2	2
8.1	Plasma membrane ATPase 2 (Fragment) OS=Solanum lycopersicum OX=4081 GN=LHA2 PE=3	PMA2_SOLLC	18	17	17
8.2	Plasma membrane ATPase 4 OS=Nicotiana plumbaginifolia OX=4092 GN=PMA4 PE=2 SV=1	PMA4_NICPL	19	19	21
8.3	ATPase 10, plasma membrane-type OS=Arabidopsis thaliana OX=3702 GN=AHA10 PE=2 SV=2	PMA10_ARATH	6	7	6
8.4	ATPase 4, plasma membrane-type OS=Arabidopsis thaliana OX=3702 GN=AHA4 PE=2 SV=2	PMA4_ARATH	21	20	21
8.5	ATPase 1, plasma membrane-type OS=Arabidopsis thaliana OX=3702 GN=AHA1 PE=1 SV=3	PMA1_ARATH	17	16	19
8.6	ATPase 9, plasma membrane-type OS=Arabidopsis thaliana OX=3702 GN=AHA9 PE=2 SV=2	PMA9_ARATH	12	11	11
8.7	Plasma membrane ATPase 3 OS=Nicotiana plumbaginifolia OX=4092 GN=PMA3 PE=1 SV=1	PMA3_NICPL	21	20	22
8.8	Plasma membrane ATPase OS=Triticum aestivum OX=4565 GN=ha1 PE=2 SV=1	PMA1_WHEAT	16	13	15

8.9	Plasma membrane ATPase 1 OS=Nicotiana plumbaginifolia OX=4092 GN=PMA1 PE=2 SV=1	PMA1_NICPL	19	20	
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9.1	ADP,ATP carrier protein, mitochondrial OS=Solanum tuberosum OX=4113 GN=ANT PE=2 SV	ADT1_SOLTU	17	17	16
9.2	ADP,ATP carrier protein 1, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=AAC1 PE=1 ADT1_ARATH		19	19	18
9.3	ADP,ATP carrier protein 1, mitochondrial OS=Gossypium hirsutum OX=3635 GN=ANT1 PE=2 ADT1_GOSHI		18	18	18
9.4	ADP,ATP carrier protein 1, mitochondrial OS=Triticum aestivum OX=4565 GN=ANT-G1 PE=3 ADT1_WHEAT		19	19	19
10.1	ATP synthase subunit beta, chloroplastic OS=Gossypium hirsutum OX=3635 GN=atpB PE=3	ATPB_GOSHI	18	18	18
10.2	ATP synthase subunit beta, chloroplastic OS=Schisandra sphenanthera OX=13674 GN=atpB	ATPB_SCHSP	16	15	16
10.3	ATP synthase subunit beta, chloroplastic OS=Daucus carota OX=4039 GN=atpB PE=3 SV=1	ATPB_DAUCA	19	19	19
10.4	ATP synthase subunit beta, chloroplastic OS=Cycas taitungensis OX=54799 GN=atpB PE=3	ATPB_CYCTA	10	10	10
10.5	ATP synthase subunit beta, chloroplastic OS=Asarum canadense OX=28498 GN=atpB PE=3	ATPB_ASACA	15	15	15
10.6	ATP synthase subunit beta, chloroplastic OS=Coffea arabica OX=13443 GN=atpB PE=3 SV=1	ATPB_COFAR	16		16
10.7	ATP synthase subunit beta, chloroplastic OS=Manihot esculenta OX=3983 GN=atpB PE=3 SV	ATPB_MANES		15	
11.1	Glyceraldehyde-3-phosphate dehydrogenase B, chloroplastic (Fragment) OS=Nicotiana taba	G3PB_TOBAC	17	16	15
11.2	Glyceraldehyde-3-phosphate dehydrogenase GAP1, chloroplastic OS=Arabidopsis thaliana	G3PA1_ARATH	13	12	11
11.3	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic (Fragment) OS=Nicotiana taba	G3PA_TOBAC	10	10	10
11.4	Glyceraldehyde-3-phosphate dehydrogenase B, chloroplastic OS=Pisum sativum OX=3888	G3PB_PEA	14	13	13
11.5	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic OS=Chlamydomonas reinhard	G3PA_CHLRE	10	10	9
11.6	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic (Fragment) OS=Coelastrella va	G3PA_COEVA	6	6	5
11.7	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic OS=Zea mays OX=4577 GN=GA	G3PA_MAIZE	8		8
12.1	Polyubiquitin (Fragment) OS=Acetabularia peniculus OX=35862 PE=3 SV=2	UBIQP_ACEPE		6	
12.2	Ubiquitin-40S ribosomal protein S27a OS=Solanum lycopersicum OX=4081 GN=UBI3 PE=1	RS27A_SOLLC (+1)	9	10	11
12.3	Ubiquitin-40S ribosomal protein S27a-2 OS=Arabidopsis thaliana OX=3702 GN=RPS27AB PE	R27AB_ARATH (+1)	9	9	11
13.1	Actin-7 OS=Arabidopsis thaliana OX=3702 GN=ACT7 PE=1 SV=1	ACT7_ARATH	21	20	19
13.2	Actin-41 (Fragment) OS=Solanum lycopersicum OX=4081 PE=3 SV=1	ACT1_SOLLC	15	15	14
13.3	Actin-1 OS=Glycine max OX=3847 GN=SAC1 PE=3 SV=2	ACT1_SOYBN	8	8	8
13.4	Actin-3 OS=Pisum sativum OX=3888 PE=2 SV=1	ACT3_PEA	17	17	17
13.5	Actin-3 OS=Glycine max OX=3847 GN=SAC3 PE=3 SV=2	ACT3_SOYBN	15	14	14
13.6	Actin-104 (Fragment) OS=Nicotiana tabacum OX=4097 PE=3 SV=1	ACT7_TOBAC	16	16	
13.7	Actin-1 OS=Daucus carota OX=4039 PE=2 SV=1	ACT1_DAUCA			17
14.1	Heat shock 70 kDa protein 18 OS=Arabidopsis thaliana OX=3702 GN=HSP70-18 PE=2 SV=1	HSP7N_ARATH	18	19	19
14.2	Heat shock 70 kDa protein 3 OS=Arabidopsis thaliana OX=3702 GN=HSP70-3 PE=1 SV=1	HSP7C_ARATH	18	18	18
14.3	Chloroplast envelope membrane 70 kDa heat shock-related protein OS=Spinacia oleracea O	HSP7E_SPIOL	17	19	17
14.4	Heat shock cognate 70 kDa protein 2 OS=Solanum lycopersicum OX=4081 GN=HSC-2 PE=2	HSP72_SOLLC	21	22	20
14.5	Heat shock 70 kDa protein OS=Zea mays OX=4577 GN=HSP70 PE=3 SV=2	HSP70_MAIZE	21	20	22

14.6	Heat shock cognate 70 kDa protein	OS=Petunia hybrida OX=4102 GN=HSP70 PE=2 SV=1	HSP7C_PETHY			22
15.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2	OS=Arabidopsis thaliana OX=3702	NDUS2_ARATH	19	19	16
15.2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2	OS=Nicotiana glauca OX=4096 GN=NDUS2_NICSY		9	8	7
16.1	V-type proton ATPase subunit E	OS=Spinacia oleracea OX=3562 GN=VATE PE=2 SV=1	VATE_SPIOL	9	8	7
16.2	V-type proton ATPase subunit E2	OS=Arabidopsis thaliana OX=3702 GN=VHA-E2 PE=2 SV=1	VATE2_ARATH	4	3	4
16.3	V-type proton ATPase subunit E	OS=Mesembryanthemum crystallinum OX=3544 GN=VATE P	VATE_MESCR	10	10	9
16.4	V-type proton ATPase subunit E	OS=Citrus limon OX=2708 GN=VATE PE=2 SV=1	VATE_CITLI	14	12	13
16.5	V-type proton ATPase subunit E	OS=Gossypium hirsutum OX=3635 GN=VATE PE=2 SV=1	VATE_GOSHI	10	9	
17.1	Chaperone protein ClpC1, chloroplastic	OS=Oryza sativa subsp. japonica OX=39947 GN=CLP CLPC1_ORYSJ		29	27	31
17.2	ATP-dependent Clp protease ATP-binding subunit ClpA homolog, chloroplastic (Fragment) C	CLPA_BRANA		20	19	22
17.3	Chaperone protein ClpC2, chloroplastic	OS=Oryza sativa subsp. japonica OX=39947 GN=CLP CLPC2_ORYSJ		23	23	25
17.4	ATP-dependent Clp protease ATP-binding subunit ClpA homolog CD4A, chloroplastic	OS=So CLPAA_SOLLC		26	24	28
18.1	Clathrin heavy chain 1	OS=Oryza sativa subsp. japonica OX=39947 GN=Os11g0104900 PE=3	CLH1_ORYSJ (+1)	26	27	29
18.2	Clathrin heavy chain 1	OS=Arabidopsis thaliana OX=3702 GN=CHC1 PE=1 SV=1	CLAH1_ARATH	22	23	26
19.1	Pleiotropic drug resistance protein 1	OS=Nicotiana tabacum OX=4097 GN=PDR1 PE=2 SV=1	PDR1_TOBAC	7	5	8
19.2	Pleiotropic drug resistance protein TUR2	OS=Spirodela polyrhiza OX=29656 GN=TUR2 PE=1	TUR2_SPIPO	8	8	8
19.3	ABC transporter G family member 42	OS=Oryza sativa subsp. japonica OX=39947 GN=ABCG4 AB42G_ORYSJ		9	7	7
19.4	ABC transporter G family member 52	OS=Oryza sativa subsp. japonica OX=39947 GN=ABCG5 AB52G_ORYSJ		2	2	2
19.5	ABC transporter G family member 43	OS=Oryza sativa subsp. japonica OX=39947 GN=ABCG4 AB43G_ORYSJ			6	7
19.6	ABC transporter G family member 36	OS=Arabidopsis thaliana OX=3702 GN=ABCG36 PE=1 S	AB36G_ARATH	8	7	6
19.7	ABC transporter G family member 40	OS=Arabidopsis thaliana OX=3702 GN=ABCG40 PE=1 S	AB40G_ARATH	5	4	4
19.8	ABC transporter G family member 37	OS=Oryza sativa subsp. japonica OX=39947 GN=ABCG3 AB37G_ORYSJ		10		10
19.9	ABC transporter G family member 39	OS=Oryza sativa subsp. japonica OX=39947 GN=ABCG3 AB39G_ORYSJ		10	12	10
19.10	ABC transporter G family member 29	OS=Arabidopsis thaliana OX=3702 GN=ABCG29 PE=2 S	AB29G_ARATH	8	5	6
19.11	ABC transporter G family member 44	OS=Oryza sativa subsp. japonica OX=39947 GN=ABCG4 AB44G_ORYSJ		9		
20.1	Tubulin beta-1 chain (Fragment)	OS=Daucus carota OX=4039 GN=TUBB1 PE=1 SV=2	TBB1_DAUCA	9	10	10
20.2	Tubulin beta-8 chain	OS=Oryza sativa subsp. japonica OX=39947 GN=TUBB8 PE=2 SV=1	TBB8_ORYSJ	14	15	13
20.3	Tubulin beta chain	OS=Volvox carteri OX=3067 GN=TUBB1 PE=3 SV=1	TBB1_VOLCA (+3)		7	7
20.4	Tubulin beta-5 chain	OS=Gossypium hirsutum OX=3635 PE=2 SV=1	TBB5_GOSHI	14	15	14
20.5	Tubulin beta-2 chain	OS=Oryza sativa subsp. japonica OX=39947 GN=TUBB2 PE=2 SV=1	TBB2_ORYSJ	14	15	14
20.6	Tubulin beta-1 chain	OS=Glycine max OX=3847 GN=TUBB1 PE=3 SV=1	TBB1_SOYBN	10	10	9
20.7	Tubulin beta-1 chain	OS=Pisum sativum OX=3888 GN=TUBB1 PE=3 SV=1	TBB1_PEA	15	16	
20.8	Tubulin beta-2 chain	OS=Daucus carota OX=4039 GN=TUBB2 PE=2 SV=1	TBB2_DAUCA		10	
20.9	Tubulin beta-4 chain	OS=Oryza sativa subsp. japonica OX=39947 GN=TUBB4 PE=2 SV=1	TBB4_ORYSJ (+1)			14
20.10	Tubulin beta-9 chain	OS=Gossypium hirsutum OX=3635 PE=2 SV=1	TBB9_GOSHI		14	

21	Alliin lyase (Fragment) OS= <i>Allium cepa</i> var. <i>aggregatum</i> OX=28911 PE=2 SV=1	ALLN_ALLCG	7	9	9
22.1	Elongation factor 1-alpha OS= <i>Nicotiana tabacum</i> OX=4097 PE=2 SV=1	EF1A_TOBAC	17	14	18
22.2	Elongation factor 1-alpha OS= <i>Zea mays</i> OX=4577 GN=EF1A PE=3 SV=1	EF1A_MAIZE	13	10	14
22.3	Elongation factor 1-alpha OS= <i>Triticum aestivum</i> OX=4565 GN=TEF1 PE=2 SV=1	EF1A_WHEAT	16	12	17
23	Probable aquaporin TIP-type RB7-5A OS= <i>Nicotiana tabacum</i> OX=4097 PE=2 SV=1	TIP1_TOBAC (+5)	2	2	2
24.1	Eukaryotic initiation factor 4A-3 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=TIF4A-3 PE=1 SV=1	IF4A3_ARATH	15	13	12
24.2	Eukaryotic initiation factor 4A-15 OS= <i>Nicotiana tabacum</i> OX=4097 PE=2 SV=1	IF415_TOBAC	17	15	14
24.3	Eukaryotic initiation factor 4A-2 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=TIF4A-2 PE=1 SV=1	IF4A2_ARATH	16	14	13
24.4	Eukaryotic initiation factor 4A-1 OS= <i>Oryza sativa</i> subsp. <i>japonica</i> OX=39947 GN=Os06g0701	IF4A1_ORYSJ	15	13	12
24.5	Eukaryotic initiation factor 4A-11 OS= <i>Nicotiana tabacum</i> OX=4097 PE=2 SV=1	IF411_TOBAC	17	13	
25.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3 OS= <i>Beta trigyna</i> OX=19769 GN=NA NDUS3_BETTR (+2)	NDUS3_BETTR (+2)	14	13	13
25.2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3 OS= <i>Solanum tuberosum</i> OX=4113	NDUS3_SOLTU	11	11	10
26.1	Hypersensitive-induced response protein 1 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=HIR1 PE=1 SV=1	HIR1_ARATH	8	8	8
26.2	Hypersensitive-induced response protein-like protein 2 OS= <i>Oryza sativa</i> subsp. <i>japonica</i> OX=39947 GN=HIRL2	HIRL2_ORYSJ	5	6	6
26.3	Hypersensitive-induced reaction 1 protein OS= <i>Capsicum annuum</i> OX=4072 GN=HIR1 PE=1 SV=1	HIR1_CAPAN	9	9	9
26.4	Hypersensitive-induced response protein-like protein 1 OS= <i>Oryza sativa</i> subsp. <i>japonica</i> OX=39947 GN=HIRL1	HIRL1_ORYSJ	8	8	8
26.5	Hypersensitive-induced response protein 1 OS= <i>Oryza sativa</i> subsp. <i>japonica</i> OX=39947 GN=HIR1	HIR1_ORYSJ	6		
27.1	Phosphoenolpyruvate carboxylase OS= <i>Pisum sativum</i> OX=3888 PE=2 SV=1	CAPP_PEA	10	6	10
27.2	Phosphoenolpyruvate carboxylase 2 OS= <i>Sorghum bicolor</i> OX=4558 PE=3 SV=1	CAPP2_SORBI	10	8	12
27.3	Phosphoenolpyruvate carboxylase 1 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=PPC1 PE=1 SV=1	CAPP1_ARATH	13	11	14
27.4	Phosphoenolpyruvate carboxylase OS= <i>Phaseolus vulgaris</i> OX=3885 PE=2 SV=1	CAPP_PHAVU	10	8	9
27.5	Phosphoenolpyruvate carboxylase 1 OS= <i>Mesembryanthemum crystallinum</i> OX=3544 GN=P	CAPP1_MESCR	9		10
27.6	Phosphoenolpyruvate carboxylase, housekeeping isozyme OS= <i>Saccharum hybrid</i> OX=15819	CAPP1_SACHY	10		
27.7	Phosphoenolpyruvate carboxylase OS= <i>Flaveria pringlei</i> OX=4226 GN=PPCA1 PE=1 SV=1	CAPP1_FLAPR	11		
28	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial OS= <i>Arabidopsis thaliana</i> OX=3702 GN=NDUV1	NDUV1_ARATH	12	14	12
29.1	Probable aquaporin PIP1-5 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=PIP1-5 PE=1 SV=2	PIP15_ARATH	4	4	4
29.2	Probable aquaporin PIP-type pTOM75 OS= <i>Solanum lycopersicum</i> OX=4081 PE=2 SV=1	PIP1_SOLLC	2	2	2
29.3	Probable aquaporin PIP1-4 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=PIP1.4 PE=1 SV=1	PIP14_ARATH	3	3	3
30.1	Photosystem I P700 chlorophyll a apoprotein A2 OS= <i>Zea mays</i> OX=4577 GN=psaB PE=3 SV=2	PSAB_MAIZE	10	9	10
30.2	Photosystem I P700 chlorophyll a apoprotein A2 OS= <i>Vitis vinifera</i> OX=29760 GN=psaB PE=3	PSAB_VITVI	11	10	11
31.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 1, mitochondrial OS= <i>Arabidopsis thaliana</i> OX=3702 GN=NDUS1	NDUS1_ARATH	11	10	11
31.2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 1, mitochondrial OS= <i>Solanum tuberosum</i> OX=4113	NDUS1_SOLTU	10	9	11
32.1	Probable V-type proton ATPase subunit d OS= <i>Oryza sativa</i> subsp. <i>japonica</i> OX=39947 GN=VAOD	VAOD_ORYSJ	9	9	9
32.2	V-type proton ATPase subunit d2 OS= <i>Arabidopsis thaliana</i> OX=3702 GN=VHA-d2 PE=2 SV=1	VAOD2_ARATH	6	5	6
33.1	Photosystem I reaction center subunit II, chloroplastic OS= <i>Cucumis sativus</i> OX=3659 GN=ps	PSAD_CUCSA	7	8	7

33.2	Photosystem I reaction center subunit II, chloroplastic OS=Hordeum vulgare OX=4513 GN=PSAD_HORVU		4	4	3
33.3	Photosystem I reaction center subunit II-2, chloroplastic OS=Arabidopsis thaliana OX=3702 PSAD2_ARATH		6	5	
34.1	Ras-related protein RABB1c OS=Arabidopsis thaliana OX=3702 GN=RABB1C PE=1 SV=1	RAB1C_ARATH	14	14	14
34.2	Ras-related protein RABB1a OS=Arabidopsis thaliana OX=3702 GN=RABB1A PE=2 SV=1	RAB1A_ARATH	4		
35.1	14-3-3-like protein C OS=Glycine max OX=3847 GN=GF14C PE=2 SV=1	1433C_SOYBN	4	4	3
35.2	14-3-3-like protein GF14 kappa OS=Arabidopsis thaliana OX=3702 GN=GRF8 PE=1 SV=2	14338_ARATH	3	3	4
35.3	14-3-3-like protein 16R OS=Solanum tuberosum OX=4113 PE=2 SV=1	14335_SOLTU (+1)	4	7	6
35.4	14-3-3-like protein GF14 nu OS=Arabidopsis thaliana OX=3702 GN=GRF7 PE=1 SV=1	14337_ARATH	4	6	6
35.5	14-3-3-like protein GF14 omicron OS=Arabidopsis thaliana OX=3702 GN=GRF11 PE=2 SV=2	14311_ARATH	2	2	2
35.6	14-3-3-like protein B OS=Nicotiana tabacum OX=4097 PE=2 SV=1	1433B_TOBAC		5	4
35.7	14-3-3-like protein (Fragment) OS=Spinacia oleracea OX=3562 PE=2 SV=1	1433_SPIOL	3		5
35.8	14-3-3-like protein OS=Lilium longiflorum OX=4690 PE=2 SV=1	1433_LILLO	5	7	7
35.9	14-3-3-like protein OS=Helianthus annuus OX=4232 PE=2 SV=1	1433_HELAN	5	8	6
35.10	14-3-3-like protein OS=Pisum sativum OX=3888 PE=2 SV=1	1433_PEA	4		6
35.11	14-3-3 protein 4 OS=Solanum lycopersicum OX=4081 GN=TFT4 PE=2 SV=1	14334_SOLLC		4	
36.1	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic OS=Petunia hybrida OX=4102 GN=G3PC_PETHY		10	10	11
36.2	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic OS=Antirrhinum majus OX=4151 GN=G3PC_ANTMA				11
36.3	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic OS=Craterostigma plantagineum OX=	G3PC_CRAPL			8
37.1	Probably inactive leucine-rich repeat receptor-like protein kinase At5g48380 OS=Arabidopsis Y5838_ARATH		2	2	2
37.2	L-type lectin-domain containing receptor kinase IV.1 OS=Arabidopsis thaliana OX=3702 GN=LRK41_ARATH		2	2	2
37.3	Mitogen-activated protein kinase homolog NTF4 OS=Nicotiana tabacum OX=4097 GN=NTF4 NTF4_TOBAC		3	2	3
37.4	Probable LRR receptor-like serine/threonine-protein kinase At1g07650 OS=Arabidopsis thaliana Y1765_ARATH		4	3	2
37.5	Probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840 OS=Arabidopsis Y3148_ARATH		3	2	2
37.6	Receptor-like cytoplasmic kinase 185 OS=Oryza sativa subsp. japonica OX=39947 GN=RLCK1 RK185_ORYSJ		2		
37.7	Probable receptor-like protein kinase At2g42960 OS=Arabidopsis thaliana OX=3702 GN=At2Y2296_ARATH		3		
37.8	L-type lectin-domain containing receptor kinase IX.1 OS=Arabidopsis thaliana OX=3702 GN=LRK91_ARATH		2	2	2
38.1	Pyruvate decarboxylase 2 OS=Nicotiana tabacum OX=4097 GN=PDC2 PE=2 SV=1	PDC2_TOBAC	3	3	2
38.2	Pyruvate decarboxylase 3 OS=Arabidopsis thaliana OX=3702 GN=PDC3 PE=2 SV=1	PDC3_ARATH	4	4	4
38.3	Pyruvate decarboxylase 1 OS=Oryza sativa subsp. indica OX=39946 GN=PDC1 PE=2 SV=1	PDC1_ORYSI (+1)	5	5	4
39.1	40S ribosomal protein S5 (Fragment) OS=Cicer arietinum OX=3827 GN=RPS5 PE=2 SV=1	RS5_CICAR	8	8	8
39.2	40S ribosomal protein S5 (Fragment) OS=Nicotiana glauca OX=4092 GN=RPS5 PE=2 SV=1	RS5_NICPL	7	7	7
40.1	60S ribosomal protein L10 OS=Vitis riparia OX=96939 GN=RPL10 PE=2 SV=1	RL10_VITRI	10	10	11
40.2	60S ribosomal protein L10 (Fragment) OS=Nicotiana tabacum OX=4097 GN=RPL10 PE=2 SV=1	RL10_TOBAC	4	4	4
41.1	Alliin lyase 2 OS>Allium sativum OX=4682 PE=1 SV=1	ALLN2_ALLSA	4	5	4
41.2	Alliin lyase 1 OS>Allium sativum OX=4682 PE=1 SV=1	ALLN1_ALLSA	5		6

42.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial OS=Solanum tuber	NDUS8_SOLTU	7	9	6
42.2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial OS=Nicotiana tabacum	NDUS8_TOBAC		6	
43.1	Photosystem I P700 chlorophyll a apoprotein A1 OS=Agrostis stolonifera OX=63632 GN=psaI	PSAA_AGRST (+6)	10	11	11
43.2	Photosystem I P700 chlorophyll a apoprotein A1 OS=Calycanthus floridus var. glaucus OX=2	PSAA_CALFG	7	8	9
44.1	60S ribosomal protein L18a-2 OS=Arabidopsis thaliana OX=3702 GN=RPL18AB PE=1 SV=2	R18A2_ARATH	6	6	7
44.2	60S ribosomal protein L18a-3 OS=Arabidopsis thaliana OX=3702 GN=RPL18AC PE=2 SV=1	R18A3_ARATH	4	4	5
45.1	Ras-related protein RABA1f OS=Arabidopsis thaliana OX=3702 GN=RABA1F PE=2 SV=1	RAA1F_ARATH	9	9	7
45.2	Ras-related protein YPT3 OS=Nicotiana plumbaginifolia OX=4092 GN=YPT3 PE=2 SV=1	YPT3_NICPL	7	6	7
45.3	Ras-related protein Rab11C OS=Nicotiana tabacum OX=4097 GN=RAB11C PE=2 SV=1	RB11C_TOBAC	4	3	3
45.4	Ras-related protein RABA2c OS=Arabidopsis thaliana OX=3702 GN=RABA2C PE=2 SV=4	RAA2C_ARATH		5	5
45.5	Ras-related protein Rab11B OS=Nicotiana tabacum OX=4097 GN=RAB11B PE=2 SV=1	RB11B_TOBAC			5
46.1	Heat shock protein 81-1 OS=Oryza sativa subsp. indica OX=39946 GN=HSP81-1 PE=2 SV=1	HSP81_ORYSI (+1)	14	12	13
46.2	Heat shock protein 90-2 OS=Arabidopsis thaliana OX=3702 GN=HSP90-2 PE=1 SV=1	HS902_ARATH	9	9	8
46.3	Heat shock cognate protein 80 OS=Solanum lycopersicum OX=4081 GN=HSC80 PE=2 SV=1	HSP80_SOLLC	12	12	12
47.1	40S ribosomal protein S4 OS=Gossypium hirsutum OX=3635 GN=RPS4 PE=2 SV=1	RS4_GOSHI	8	10	9
47.2	40S ribosomal protein S4 OS=Oryza sativa subsp. japonica OX=39947 GN=RPS4 PE=2 SV=3	RS4_ORYSJ	7	8	9
48.1	Heat shock 70 kDa protein BIP1 OS=Oryza sativa subsp. japonica OX=39947 GN=BIP1 PE=1 SV=1	BIP1_ORYSJ	13	12	13
48.2	Luminal-binding protein 5 OS=Nicotiana tabacum OX=4097 GN=BIP5 PE=2 SV=1	BIP5_TOBAC	9	10	8
49.1	Tubulin alpha-1 chain OS=Hordeum vulgare OX=4513 GN=TUBA1 PE=2 SV=1	TBA1_HORVU (+4)	7	8	7
49.2	Tubulin alpha-6 chain OS=Arabidopsis thaliana OX=3702 GN=TUBA6 PE=1 SV=1	TBA6_ARATH	9	9	9
50.1	60S ribosomal protein L8 OS=Solanum lycopersicum OX=4081 GN=RPL8 PE=2 SV=1	RL8_SOLLC	4	4	4
50.2	60S ribosomal protein L8-1 OS=Arabidopsis thaliana OX=3702 GN=RPL8A PE=1 SV=2	RL81_ARATH	4	4	4
51.1	ADP-ribosylation factor 2-A OS=Arabidopsis thaliana OX=3702 GN=ARF2-A PE=2 SV=2	ARF2A_ARATH (+2)	8	8	8
52.1	30S ribosomal protein S4, chloroplastic (Fragment) OS=Hymenocallis littoralis OX=59040 GN=RR4	RR4_HYMLI	7	7	6
52.2	30S ribosomal protein S4, chloroplastic OS=Canalohypopterygium tamariscinum OX=98731 GN=RR4	RR4_CANTA	3	3	3
53	60S ribosomal protein L11 OS=Medicago sativa OX=3879 GN=RPL11 PE=2 SV=1	RL11_MEDSA	8	9	8
54.1	60S ribosomal protein L3 OS=Oryza sativa subsp. japonica OX=39947 GN=RPL3 PE=2 SV=2	RL3_ORYSJ	9	10	11
54.2	60S ribosomal protein L3-1 OS=Arabidopsis thaliana OX=3702 GN=ARP1 PE=1 SV=5	RL31_ARATH	9	9	10
54.3	60S ribosomal protein L3-2 OS=Arabidopsis thaliana OX=3702 GN=ARP2 PE=2 SV=4	RL32_ARATH	7	8	
55.1	RuBisCO large subunit-binding protein subunit beta, chloroplastic (Fragment) OS=Secale cereale	RUBB_SECCE	8	8	9
55.2	RuBisCO large subunit-binding protein subunit beta, chloroplastic OS=Brassica napus OX=3702 GN=RUBB	RUBB_BRANA	7	10	11
55.3	Chaperonin 60 subunit beta 3, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=CPN60E	CPNB3_ARATH	9	9	13
55.4	RuBisCO large subunit-binding protein subunit beta, chloroplastic OS=Pisum sativum OX=3702 GN=RUBB	RUBB_PEA	8	10	12
56	40S ribosomal protein S15 OS=Oryza sativa subsp. japonica OX=39947 GN=RPS15 PE=2 SV=2	RS15_ORYSJ	4	4	4
57	Mitochondrial-processing peptidase subunit alpha OS=Solanum tuberosum OX=4113 GN=MPPA	MPPA_SOLTU	4	4	4

58	V-type proton ATPase subunit c1 OS=Arabidopsis thaliana OX=3702 GN=VHA-c1 PE=2 SV=1	VATL1_ARATH (+11)	2	2	
59.1	Phosphoglycerate kinase, chloroplastic OS=Nicotiana tabacum OX=4097 PE=2 SV=1	PGKH_TOBAC	9	8	8
59.2	Phosphoglycerate kinase, cytosolic OS=Nicotiana tabacum OX=4097 PE=2 SV=1	PGKY_TOBAC	7	6	6
59.3	Phosphoglycerate kinase 1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=PGK1 PE=1	PGKH1_ARATH	9	7	
60	60S ribosomal protein L7a-1 OS=Arabidopsis thaliana OX=3702 GN=RPL7AA PE=2 SV=2	RL7A1_ARATH (+1)	5	4	5
61.1	Elongation factor 2 OS=Arabidopsis thaliana OX=3702 GN=LOS1 PE=1 SV=1	EF2_ARATH	8	8	8
61.2	Elongation factor 2 OS=Beta vulgaris OX=161934 PE=2 SV=1	EF2_BETVU	9	7	10
62.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase OS=Plectranthus	METE_PLESU	11	8	9
62.2	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase 1 OS=Oryza sativa	METE1_ORYSJ	8	3	5
62.3	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase OS=Mesembryan	METE_MESCR	9	6	6
62.4	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase OS=Catharanthu	METE_CATRO	8	4	5
63.1	Catalase OS=Avicennia marina OX=82927 PE=2 SV=1	CATA_AVIMR		3	2
63.2	Catalase isozyme 2 OS=Ricinus communis OX=3988 GN=CAT2 PE=2 SV=1	CATA2_RICCO		4	3
63.3	Catalase isozyme 1 (Fragment) OS=Nicotiana plumbaginifolia OX=4092 GN=CAT1 PE=2 SV=1	CATA1_NICPL	3	6	5
63.4	Catalase isozyme 1 OS=Hordeum vulgare OX=4513 GN=CAT1 PE=2 SV=1	CATA1_HORVU (+4)	3	5	4
63.5	Catalase isozyme 1 OS=Ricinus communis OX=3988 GN=CAT1 PE=2 SV=2	CATA1_RICCO	3	6	
64.1	40S ribosomal protein S3a OS=Brassica campestris OX=3711 GN=RPS3A PE=2 SV=2	RS3A_BRACM	4	3	3
64.2	40S ribosomal protein S3a OS=Catharanthus roseus OX=4058 GN=RPS3A PE=2 SV=4	RS3A_CATRO	4	3	4
64.3	40S ribosomal protein S3a-1 OS>Vitis vinifera OX=29760 GN=GSVIVT00020038001 PE=3 SV	RS3A1_VITVI	2	2	2
65	40S ribosomal protein S6 OS=Asparagus officinalis OX=4686 GN=rps6 PE=2 SV=1	RS6_ASPOF	10	11	10
66.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial OS=Brassica oleraci	NDUS7_BRAOL	7	7	7
66.2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial OS=Arabidopsis thi	NDUS7_ARATH	6	6	7
67	60S ribosomal protein L23A OS=Fritillaria agrestis OX=64177 GN=RPL23A PE=2 SV=1	RL23A_FRIAG	9	8	8
68	Adenylate kinase 4 OS=Oryza sativa subsp. japonica OX=39947 GN=ADK-B PE=2 SV=1	KAD4_ORYSJ	8	8	9
69	Mitochondrial phosphate carrier protein 3, mitochondrial OS=Arabidopsis thaliana OX=370	MPCP3_ARATH	9	9	9
70	ATP-dependent zinc metalloprotease FTSH 1, chloroplastic OS=Arabidopsis thaliana OX=370	FTSH1_ARATH	15	13	14
71.1	40S ribosomal protein S8 OS=Zea mays OX=4577 GN=RPS8 PE=2 SV=2	RS8_MAIZE	8	8	7
71.2	40S ribosomal protein S8-2 OS=Arabidopsis thaliana OX=3702 GN=RPS8B PE=2 SV=1	RS82_ARATH	8	7	8
72.1	Ferredoxin--NADP reductase, chloroplastic OS=Vicia faba OX=3906 GN=PETH PE=2 SV=1	FENR_VICFA	3	3	3
72.2	Ferredoxin--NADP reductase, leaf isozyme 1, chloroplastic OS=Oryza sativa subsp. indica OX	FENR1_ORYSI	5	5	5
72.3	Ferredoxin--NADP reductase, leaf isozyme 2, chloroplastic OS=Oryza sativa subsp. japonica C	FENR2_ORYSJ	4	4	4
73.1	Cytochrome c oxidase subunit 2 OS=Zea mays OX=4577 GN=COX2 PE=2 SV=4	COX2_MAIZE	4	3	3
73.2	Cytochrome c oxidase subunit 2 OS=Arabidopsis thaliana OX=3702 GN=COX2 PE=1 SV=2	COX2_ARATH	4	3	3
73.3	Cytochrome c oxidase subunit 2 OS=Beta vulgaris OX=161934 GN=COX2 PE=2 SV=1	COX2_BETVU			3
74.1	Photosystem II CP43 reaction center protein OS=Agrostis stolonifera OX=63632 GN=psbC Pf	PSBC_AGRST (+20)	7	6	8

74.2	Photosystem II CP43 reaction center protein	OS=Lemna minor OX=4472 GN=psbC PE=3 SV=	PSBC_LEMMI	7	6	8
75.1	40S ribosomal protein S3-3	OS=Arabidopsis thaliana OX=3702 GN=RPS3C PE=1 SV=1	RS33_ARATH	6	6	7
75.2	40S ribosomal protein S3-2	OS=Arabidopsis thaliana OX=3702 GN=RPS3B PE=1 SV=1	RS32_ARATH		7	7
76	60S ribosomal protein L13a-1	OS=Arabidopsis thaliana OX=3702 GN=RPL13AA PE=2 SV=1	R13A1_ARATH	4	3	
77.1	60S ribosomal protein L10a-2	OS=Arabidopsis thaliana OX=3702 GN=RPL10AB PE=1 SV=1	R10A2_ARATH	4	3	4
77.2	60S ribosomal protein L10a-3	OS=Arabidopsis thaliana OX=3702 GN=RPL10AC PE=1 SV=1	R10A3_ARATH	2		2
78.1	40S ribosomal protein S14	OS=Zea mays OX=4577 PE=3 SV=1	RS141_MAIZE	5	5	5
78.2	40S ribosomal protein S14	OS=Chlamydomonas reinhardtii OX=3055 GN=RPS14 PE=3 SV=1	RS14_CHLRE		7	7
79	ATP synthase subunit gamma, mitochondrial	OS=Ipomoea batatas OX=4120 GN=ATPC PE=1	ATPG3_IPOBA	5	5	5
80.1	Ras-related protein RABE1c	OS=Arabidopsis thaliana OX=3702 GN=RABE1C PE=1 SV=1	RAE1C_ARATH (+1)	9	8	10
80.2	GTP-binding protein YPTC1	OS=Chlamydomonas reinhardtii OX=3055 GN=YPTC1 PE=3 SV=1	YPTC1_CHLRE			4
80.3	GTP-binding protein YPTM2	OS=Zea mays OX=4577 GN=YPTM2 PE=2 SV=1	YPTM2_MAIZE	6	6	4
80.4	Ras-related protein RABD2a	OS=Arabidopsis thaliana OX=3702 GN=RABD2A PE=1 SV=3	RAD2A_ARATH	5	5	4
81.1	Photosystem II CP47 reaction center protein	OS=Acorus americanus OX=263995 GN=psbB P	PSBB_ACOAM (+5)	7	6	7
81.2	Photosystem II CP47 reaction center protein	OS=Lemna minor OX=4472 GN=psbB PE=3 SV=	PSBB_LEMMI	7		7
82	40S ribosomal protein S13	OS=Glycine max OX=3847 GN=RPS13 PE=2 SV=1	RS13_SOYBN	8	8	8
83	Chlorophyll a-b binding protein 4, chloroplastic	OS=Arabidopsis thaliana OX=3702 GN=LHC CA4	CA4_ARATH	6	6	6
84	Cytochrome c1-2, heme protein, mitochondrial (Fragment)	OS=Solanum tuberosum OX=41	CY12_SOLTU	5	5	5
85.1	Photosystem I iron-sulfur center	OS=Liriodendron tulipifera OX=3415 GN=psaC PE=3 SV=1	PSAC_LIRTU	7	6	5
85.2	Photosystem I iron-sulfur center	OS=Dioscorea elephantipes OX=145284 GN=psaC PE=3 SV=	PSAC_DIOEL	7	6	5
86	V-type proton ATPase subunit D	OS=Arabidopsis thaliana OX=3702 GN=VHA-D PE=1 SV=2	VATD_ARATH	4	5	4
87.1	ATP-dependent zinc metalloprotease FTSH 8, chloroplastic	OS=Arabidopsis thaliana OX=370 FTSH8	FTSH8_ARATH	7	7	7
87.2	ATP-dependent zinc metalloprotease FTSH 2, chloroplastic	OS=Arabidopsis thaliana OX=370 FTSH2	FTSH2_ARATH	6	6	6
87.3	ATP-dependent zinc metalloprotease FTSH 2, chloroplastic	OS=Oryza sativa subsp. japonica FTSH2	FTSH2_ORYSJ	6	6	6
88	V-type proton ATPase subunit a3	OS=Arabidopsis thaliana OX=3702 GN=VHA-a3 PE=1 SV=1	VHAA3_ARATH	6	6	6
89	Hexokinase-1	OS=Arabidopsis thaliana OX=3702 GN=HXK1 PE=1 SV=2	HXK1_ARATH	5	5	5
90	50S ribosomal protein L2, chloroplastic	OS=Triticum aestivum OX=4565 GN=rpl2-A PE=3 SV	RK2_WHEAT	7	6	7
91.1	60S ribosomal protein L13-1	OS=Brassica napus OX=3708 PE=2 SV=1	RL131_BRANA	5	5	4
91.2	60S ribosomal protein L13	OS=Nicotiana tabacum OX=4097 GN=RPL13 PE=2 SV=1	RL13_TOBAC		4	3
92	40S ribosomal protein S2-1	OS=Arabidopsis thaliana OX=3702 GN=RPS2A PE=2 SV=2	RS21_ARATH (+2)	5	5	5
93	40S ribosomal protein S15a-1	OS=Arabidopsis thaliana OX=3702 GN=RPS15AA PE=2 SV=2	R15A1_ARATH (+1)	5	5	5
94.1	60S ribosomal protein L7-2	OS=Arabidopsis thaliana OX=3702 GN=RPL7B PE=1 SV=1	RL72_ARATH	5	5	3
94.2	60S ribosomal protein L7-4	OS=Arabidopsis thaliana OX=3702 GN=RPL7D PE=2 SV=1	RL74_ARATH	6	6	4
95.1	40S ribosomal protein S16	OS=Fritillaria agrestis OX=64177 GN=RPS16 PE=2 SV=1	RS16_FRIAG	4	4	5
95.2	40S ribosomal protein S16	OS=Lupinus polyphyllus OX=3874 GN=RPS16 PE=2 SV=1	RS16_LUPPO	4	4	5

96.1	Adenosylhomocysteinase OS=Nicotiana glauca OX=4096 GN=SAHH PE=2 SV=1	SAHH_NICSY (+1)	10	7	9
96.2	Adenosylhomocysteinase OS=Medicago sativa OX=3879 GN=SAHH PE=2 SV=1	SAHH_MEDSA	10	7	8
97.1	Cell division cycle protein 48 homolog OS=Glycine max OX=3847 GN=CDC48 PE=2 SV=1	CDC48_SOYBN	8	9	9
97.2	Cell division control protein 48 homolog D OS=Arabidopsis thaliana OX=3702 GN=CDC48D	CD48D_ARATH	6	8	7
98	Probable mitochondrial-processing peptidase subunit beta, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=MPPB	MPPB_ARATH	5	4	4
99.1	Prohibitin-3, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=PHB3 PE=1 SV=1	PHB3_ARATH	4	4	4
99.2	Prohibitin-5, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=PHB5 PE=1 SV=1	PHB5_ARATH		3	3
100	60S ribosomal protein L14-1 OS=Arabidopsis thaliana OX=3702 GN=RPL14A PE=2 SV=1	RL141_ARATH	2	2	2
101.1	Elongation factor Tu, chloroplast OS=Tetrademus obliquus OX=3088 GN=tufA PE=3 SV=1	EFTU_TETOB	3	3	2
101.2	Elongation factor Tu, chloroplast OS=Glycine max OX=3847 GN=TUFA PE=3 SV=1	EFTU1_SOYBN	8	7	6
102	Ribulose biphosphate carboxylase large chain (Fragments) OS=Vitis sp. OX=3604 GN=rbcL P	RBL_VITSX	5	4	5
103	Photosystem II protein D1 OS=Acorus calamus OX=4465 GN=psbA PE=3 SV=1	PSBA_ACOCL (+25)	6	6	6
104.1	Succinate dehydrogenase [ubiquinone] flavoprotein subunit 1, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=SDHA1	SDHA1_ARATH	7	7	7
104.2	Succinate dehydrogenase [ubiquinone] flavoprotein subunit 2, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=SDHA2	SDHA2_ARATH	7		
105.1	Chlorophyll a-b binding protein, chloroplast OS=Oryza sativa subsp. indica OX=39946 GN=CB23	CB23_ORYSI (+1)	2	2	2
105.2	Chlorophyll a-b binding protein 91R, chloroplast OS=Petunia sp. OX=4104 GN=CAB91R PE	CB25_PETSP	5	5	5
106	Ras-related protein Rab7 OS=Gossypium hirsutum OX=3635 GN=RAB7 PE=2 SV=1	RAB7_GOSHI	7	6	6
107.1	Enolase OS=Oryza sativa subsp. japonica OX=39947 GN=ENO1 PE=1 SV=2	ENO_ORYSJ	4	4	4
107.2	Enolase OS=Ricinus communis OX=3988 PE=2 SV=1	ENO_RICCO	4	4	4
107.3	Enolase 1 OS=Zea mays OX=4577 GN=ENO1 PE=2 SV=1	ENO1_MAIZE	5	4	5
108	40S ribosomal protein S11 OS=Zea mays OX=4577 GN=RPS11 PE=2 SV=1	RS11_MAIZE	6	5	7
109.1	40S ribosomal protein S9-2 OS=Arabidopsis thaliana OX=3702 GN=RPS9C PE=1 SV=1	RS92_ARATH	5	5	5
109.2	40S ribosomal protein S9-1 OS=Arabidopsis thaliana OX=3702 GN=RPS9B PE=1 SV=1	RS91_ARATH			4
110	Histone H4 variant TH011 OS=Triticum aestivum OX=4565 PE=3 SV=2	H41_WHEAT (+14)	6	7	7
111	30S ribosomal protein S7, chloroplast OS=Allium textile OX=207935 GN=rps7 PE=3 SV=1	RR7_ALLTE	9	7	8
112.1	GTP-binding protein SAR1A OS=Arabidopsis thaliana OX=3702 GN=SAR1A PE=2 SV=1	SAR1A_ARATH	4	4	5
112.2	GTP-binding protein SAR1 OS=Nicotiana glauca OX=4097 GN=SAR1 PE=2 SV=1	SAR1_TOBAC	4	4	5
113.1	Protein TIC 55, chloroplast OS=Arabidopsis thaliana OX=3702 GN=TIC55 PE=1 SV=1	TIC55_ARATH	4	4	4
113.2	Protein TIC 55, chloroplast OS=Pisum sativum OX=3888 GN=TIC55 PE=1 SV=1	TIC55_PEA	4	4	
114.1	Linoleate 9S-lipoxygenase A OS=Solanum lycopersicum OX=4081 GN=LOX1.1 PE=2 SV=1	LOXA_SOLLC	4	4	4
114.2	Linoleate 9S-lipoxygenase 1 OS=Arabidopsis thaliana OX=3702 GN=LOX1 PE=1 SV=1	LOX1_ARATH	2	2	2
114.3	Probable linoleate 9S-lipoxygenase 4 OS=Oryza sativa subsp. japonica OX=39947 GN=Os03g1	LOX4_ORYSJ	3	3	4
115	Nucleoside diphosphate kinase IV, chloroplast/mitochondrial OS=Arabidopsis thaliana OX=3702 GN=NDK4	NDK4_ARATH	5	5	6
116.1	Oxygen-evolving enhancer protein 1-2, chloroplast OS=Arabidopsis thaliana OX=3702 GN=PSBO2	PSBO2_ARATH	2		
116.2	Oxygen-evolving enhancer protein 1, chloroplast OS=Solanum tuberosum OX=4113 GN=PSBO	PSBO_SOLTU	4	5	5

116.3	Oxygen-evolving enhancer protein 1, chloroplastic OS=Pisum sativum OX=3888 GN=PSBO P PSBO_PEA	4	4	4
117	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=NDUV2 ARATH	3	3	3
118	Histone H2B OS=Capsicum annuum OX=4072 GN=HIS2B PE=2 SV=3 H2B_CAPAN	4	2	3
119	Chlorophyll a-b binding protein 8, chloroplastic OS=Solanum lycopersicum OX=4081 GN=C CB13_SOLLC	4	4	3
120.1	Chaperonin CPN60-like 1, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=At2g33210 CH60B_ARATH	6	5	6
120.2	Chaperonin CPN60-2, mitochondrial OS=Zea mays OX=4577 GN=CPN60II PE=2 SV=1 CH62_MAIZE	6	6	7
120.3	Chaperonin CPN60, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=CPN60 PE=1 SV=2 CH60A_ARATH		5	6
121.1	RuBisCO large subunit-binding protein subunit alpha, chloroplastic OS=Pisum sativum OX=3702 GN=RUBA_PEA	7	7	7
121.2	RuBisCO large subunit-binding protein subunit alpha (Fragment) OS=Ricinus communis OX=3702 GN=RUBA_RICCO	7	5	6
122	Ribulose biphosphate carboxylase small chain, chloroplastic OS=Musa acuminata OX=4641 RBS_MUSAC	3	2	2
123.1	Calcium-dependent protein kinase 20 OS=Oryza sativa subsp. japonica OX=39947 GN=CPK21 CDPKK_ORYSJ	7	5	6
123.2	Calcium-dependent protein kinase 32 OS=Arabidopsis thaliana OX=3702 GN=CPK32 PE=1 SV=1 CDPKW_ARATH	2	4	2
123.3	Calcium-dependent protein kinase 8 OS=Arabidopsis thaliana OX=3702 GN=CPK8 PE=1 SV=1 CDPK8_ARATH	3		
124.1	Pto-interacting protein 1 OS=Solanum lycopersicum OX=4081 GN=PTI1 PE=1 SV=2 PTI1_SOLLC	2	3	3
124.2	PTI1-like tyrosine-protein kinase 3 OS=Arabidopsis thaliana OX=3702 GN=PTI13 PE=1 SV=1 PTI13_ARATH			4
124.3	PTI1-like tyrosine-protein kinase 1 OS=Arabidopsis thaliana OX=3702 GN=PTI11 PE=1 SV=1 PTI11_ARATH		5	
125	Ras-related protein RABH1e OS=Arabidopsis thaliana OX=3702 GN=RABH1E PE=2 SV=1 RAH1E_ARATH	6	7	7
126	Probable V-type proton ATPase subunit H OS=Oryza sativa subsp. japonica OX=39947 GN=OVATH_ORYSJ	3	3	3
127	2-methyl-6-phytyl-1,4-hydroquinone methyltransferase 2, chloroplastic OS=Oryza sativa subsp. japonica OX=39947 GN=BQMT2_ORYSJ			4
128	Calcineurin B-like protein 3 OS=Oryza sativa subsp. japonica OX=39947 GN=CBL3 PE=1 SV=1 CNBL3_ORYSJ	7	9	7
129.1	Sucrose synthase 1 OS=Oryza sativa subsp. japonica OX=39947 GN=SUS1 PE=1 SV=1 SUS1_ORYSJ	3	2	2
129.2	Sucrose synthase 1 OS=Tulipa gesneriana OX=13306 PE=2 SV=1 SUS1_TULGE	3		3
129.3	Sucrose synthase isoform 1 OS=Daucus carota OX=4039 PE=2 SV=1 SUS1_DAUCA	2	2	
129.4	Sucrose synthase OS=Vicia faba OX=3906 GN=SUCS PE=2 SV=1 SUS_VICFA		3	4
130	Calmodulin-3 OS=Oryza sativa subsp. indica OX=39946 GN=CAM3 PE=3 SV=2 CALM3_ORYSI (+3)	5	6	5
131	Glutamine synthetase root isozyme 4 OS=Zea mays OX=4577 GN=GLN5 PE=2 SV=1 GLNA4_MAIZE	3	4	4
132.1	Phototropin-2 OS=Arabidopsis thaliana OX=3702 GN=PHOT2 PE=1 SV=2 PHOT2_ARATH	4	4	3
132.2	Phototropin-1 OS=Arabidopsis thaliana OX=3702 GN=PHOT1 PE=1 SV=1 PHOT1_ARATH	5	4	4
133.1	26S proteasome regulatory subunit 7 homolog A OS=Arabidopsis thaliana OX=3702 GN=RPT1 PRS7A_ARATH	5	6	7
133.2	26S proteasome regulatory subunit 7 OS=Spinacia oleracea OX=3562 GN=RPT1 PE=2 SV=1 PRS7_SPIOL	5		7
134	26S proteasome regulatory subunit 8 homolog A OS=Arabidopsis thaliana OX=3702 GN=RPT1 PRS8A_ARATH (+1)	6	11	7
135	Putative 60S ribosomal protein L18-1 OS=Arabidopsis thaliana OX=3702 GN=RPL18A PE=3 SV=1 RL181_ARATH	4	3	4
136.1	60S acidic ribosomal protein P0-3 OS=Arabidopsis thaliana OX=3702 GN=RPP0C PE=1 SV=1 RLA03_ARATH	6	5	6
136.2	60S acidic ribosomal protein P0-1 OS=Arabidopsis thaliana OX=3702 GN=RPP0A PE=1 SV=1 RLA01_ARATH	6	5	6
137.1	Cytochrome b-c1 complex subunit Rieske-2, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=UCRI2_ARATH	5	4	5

137.2	Cytochrome b-c1 complex subunit Rieske-3, mitochondrial OS=Nicotiana tabacum OX=409	UCRI3_TOBAC	3	3	3
138	Prohibitin-2, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=PHB2 PE=1 SV=1	PHB2_ARATH	3	3	2
139	Aquaporin PIP2-1 OS=Arabidopsis thaliana OX=3702 GN=PIP2-1 PE=1 SV=1	PIP21_ARATH	2	2	2
140.1	Ferredoxin-dependent glutamate synthase, chloroplastic OS=Spinacia oleracea OX=3562 GN=GLTB_SPIOL	GLTB_SPIOL	4		3
140.2	Ferredoxin-dependent glutamate synthase 1, chloroplastic/mitochondrial OS=Arabidopsis thaliana OX=3702 GN=GLTB1_ARATH	GLTB1_ARATH	3	3	
141	Peptidyl-prolyl cis-trans isomerase OS=Allium cepa OX=4679 GN=CYP PE=2 SV=1	CYPH_ALLCE	3	3	3
142	Glycine dehydrogenase (decarboxylating) A, mitochondrial OS=Flaveria pringlei OX=4226 GN=GCSPA_FLAPR (+2)	GCSPA_FLAPR (+2)	3	3	4
143	Mitochondrial phosphate carrier protein 2, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=MPCP2_ARATH	MPCP2_ARATH	7	6	7
144	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=NDUA9_ARATH	NDUA9_ARATH	4	4	4
145.1	60S ribosomal protein L12-1 OS=Arabidopsis thaliana OX=3702 GN=RPL12A PE=2 SV=2	RL121_ARATH (+2)	2	2	2
145.2	60S ribosomal protein L12 OS=Prunus armeniaca OX=36596 GN=RPL12 PE=2 SV=1	RL12_PRUAR	2	2	2
146	60S ribosomal protein L23 OS=Arabidopsis thaliana OX=3702 GN=RPL23A PE=2 SV=3	RL23_ARATH	4	4	3
147	Cytochrome c1 2, heme protein, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=CYC: CYC1B_ARATH	CYC1B_ARATH	4	4	4
148.1	30S ribosomal protein S3, chloroplastic OS=Dioscorea elephantipes OX=145284 GN=rps3 PI RR3_DIOEL (+1)	RR3_DIOEL (+1)	3	4	3
148.2	30S ribosomal protein S3, chloroplastic OS=Calycanthus floridus var. glaucus OX=212734 GN=RR3_CALFG	RR3_CALFG	4	5	3
149	40S ribosomal protein S18 OS=Arabidopsis thaliana OX=3702 GN=RPS18A PE=1 SV=1	RS18_ARATH	3	4	5
150	60S ribosomal protein L17-1 OS=Hordeum vulgare OX=4513 PE=2 SV=1	RL171_HORVU	3	3	4
151	30S ribosomal protein S5, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=rps5 PE=2 SV=1	RR5_ARATH	3	4	3
152	RuBisCO large subunit-binding protein subunit alpha, chloroplastic (Fragment) OS=Triticum aestivum OX=3702 GN=RUBA_WHEAT	RUBA_WHEAT	6	5	6
153.1	Protein Ycf2 OS=Dioscorea elephantipes OX=145284 GN=ycf2-A PE=3 SV=1	YCF2_DIOEL	4	4	
153.2	Protein Ycf2 OS=Drimys granadensis OX=224735 GN=ycf2-A PE=3 SV=1	YCF2_DRIGR	3		
154.1	Coatomer subunit alpha-3 OS=Oryza sativa subsp. japonica OX=39947 GN=Os09g0127800 P COPA3_ORYSJ	COPA3_ORYSJ	5	7	9
154.2	Coatomer subunit alpha-2 OS=Oryza sativa subsp. japonica OX=39947 GN=Os03g0711500 P COPA2_ORYSJ	COPA2_ORYSJ	5	7	9
155.1	Phospholipase D alpha 2 OS=Oryza sativa subsp. japonica OX=39947 GN=PLD2 PE=2 SV=2	PLDA2_ORYSJ	2	3	4
155.2	Phospholipase D alpha 1 OS=Carica papaya OX=3649 GN=PLD1 PE=1 SV=1	PLDA1_CARPA		2	
156	26S proteasome regulatory subunit 6B homolog OS=Helianthus annuus OX=4232 PE=1 SV=1	PRS6B_HELAN	8	8	6
157	Protein TIC110, chloroplastic OS=Pisum sativum OX=3888 GN=TIC110 PE=1 SV=1	TI110_PEA	4	3	3
158	60S ribosomal protein L38 OS=Arabidopsis thaliana OX=3702 GN=RPL38A PE=3 SV=1	RL38_ARATH (+1)	2	3	2
159	Probable L-ascorbate peroxidase 4, peroxisomal OS=Oryza sativa subsp. japonica OX=39947 GN=APX4_ORYSJ	APX4_ORYSJ	4	4	4
160	NADP-dependent glyceraldehyde-3-phosphate dehydrogenase OS=Apium graveolens OX=4000 GN=GAPN_APIGR	GAPN_APIGR	5	4	5
161	Malate dehydrogenase, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=At3g47520 PE=1 SV=1	MDHP_ARATH	5	4	4
162	60S ribosomal protein L19-2 OS=Arabidopsis thaliana OX=3702 GN=RPL19B PE=2 SV=1	RL192_ARATH	5	4	5
163.1	Rac-like GTP-binding protein RHO1 OS=Pisum sativum OX=3888 GN=RHO1 PE=2 SV=1	RHO1_PEA	3		3
163.2	Rac-like GTP-binding protein ARAC7 OS=Arabidopsis thaliana OX=3702 GN=ARAC7 PE=1 SV=1	RAC7_ARATH	2		3
163.3	Rac-like GTP-binding protein RAC2 OS=Lotus japonicus OX=34305 GN=RAC2 PE=2 SV=1	RAC2_LOTJA	3		

164.1	Cellulose synthase A catalytic subunit 1 [UDP-forming] OS=Arabidopsis thaliana OX=3702 GI CESA1_ARATH		2	3
164.2	Cellulose synthase A catalytic subunit 3 [UDP-forming] OS=Arabidopsis thaliana OX=3702 GI CESA3_ARATH	2	2	
165	Glutamate-glyoxylate aminotransferase 1 OS=Arabidopsis thaliana OX=3702 GN=GGAT1 PE: GGT1_ARATH	6	6	5
166.1	Membrane steroid-binding protein 2 OS=Arabidopsis thaliana OX=3702 GN=MSBP2 PE=1 SV MSBP2_ARATH	2	3	3
166.2	Membrane steroid-binding protein 1 OS=Oryza sativa subsp. japonica OX=39947 GN=MSBP1 MSBP1_ORYSJ	2	3	3
167	60S ribosomal protein L26-2 OS=Arabidopsis thaliana OX=3702 GN=RPL26B PE=2 SV=1 RL262_ARATH	5	5	6
168	Peroxisomal (S)-2-hydroxy-acid oxidase OS=Spinacia oleracea OX=3562 PE=1 SV=1 GOX_SPIOL	4	3	3
169.1	Acetyl-coenzyme A carboxylase carboxyl transferase subunit beta, chloroplastic OS=Illicium ACCD_ILLOL	3	4	4
169.2	Acetyl-coenzyme A carboxylase carboxyl transferase subunit beta, chloroplastic OS=Phalaen ACCD_PHAEO			2
170.1	Chaperone protein ClpB1 OS=Arabidopsis thaliana OX=3702 GN=CLPB1 PE=1 SV=2 CLPB1_ARATH	8	5	4
170.2	Chaperone protein ClpB1 OS=Oryza sativa subsp. japonica OX=39947 GN=CLPB1 PE=2 SV=1 CLPB1_ORYSJ		5	5
171	NADH-ubiquinone oxidoreductase chain 1 OS=Arabidopsis thaliana OX=3702 GN=ND1 PE=1 NU1M_ARATH	6	6	4
172	26S proteasome regulatory subunit 6A homolog B OS=Arabidopsis thaliana OX=3702 GN=RF PS6AB_ARATH	8	6	7
173	Somatic embryogenesis receptor kinase 1 OS=Arabidopsis thaliana OX=3702 GN=SERK1 PE=: SERK1_ARATH (+1)	5	5	5
174	NADH-ubiquinone oxidoreductase 49 kDa subunit OS=Prototheca wickerhamii OX=3111 GN NDUS2_PROWI	2	2	2
175.1	Membrane-associated 30 kDa protein, chloroplastic OS=Pisum sativum OX=3888 GN=IM30 IM30_PEA	4	4	5
175.2	Probable membrane-associated 30 kDa protein, chloroplastic OS=Oryza sativa subsp. japoni IM30_ORYSJ	2	2	3
176.1	60S ribosomal protein L4-1 OS=Arabidopsis thaliana OX=3702 GN=RPL4A PE=1 SV=1 RL4A_ARATH	3	3	3
176.2	60S ribosomal protein L4 OS=Prunus armeniaca OX=36596 GN=RPL4 PE=2 SV=1 RL4_PRUAR	3	3	3
177.1	DNA-directed RNA polymerase subunit beta OS=Ipomoea purpurea OX=4121 GN=rpoB PE=3 RPOB_IPOPU	4	2	4
177.2	DNA-directed RNA polymerase subunit beta OS=Acorus americanus OX=263995 GN=rpoB PE RPOB_ACOAM (+2)	4	3	5
177.3	DNA-directed RNA polymerase subunit beta OS=Lolium perenne OX=4522 GN=rpoB PE=3 SV RPOB_LOLPR			2
178	40S ribosomal protein S17 OS=Solanum lycopersicum OX=4081 GN=RPS17 PE=2 SV=3 RS17_SOLLC	4	4	4
179.1	Phosphoinositide phosphatase SAC2 OS=Arabidopsis thaliana OX=3702 GN=SAC2 PE=2 SV=1 SAC2_ARATH	4	4	4
179.2	Phosphoinositide phosphatase SAC6 OS=Arabidopsis thaliana OX=3702 GN=SAC6 PE=2 SV=1 SAC6_ARATH			2
179.3	Phosphoinositide phosphatase SAC3 OS=Arabidopsis thaliana OX=3702 GN=SAC3 PE=2 SV=1 SAC3_ARATH	3		3
180	60S ribosomal protein L37a OS=Gossypium hirsutum OX=3635 GN=RPL37A PE=3 SV=1 RL37A_GOSHI	2	3	4
181.1	Calcium-dependent protein kinase 19 OS=Oryza sativa subsp. japonica OX=39947 GN=CPK1! CDPKJ_ORYSJ	4	5	4
181.2	Calcium-dependent protein kinase 9 OS=Arabidopsis thaliana OX=3702 GN=CPK9 PE=1 SV=1 CDPK9_ARATH	4	4	4
182	Dynamin-2B OS=Arabidopsis thaliana OX=3702 GN=DRP2B PE=1 SV=2 DRP2B_ARATH	7	6	6
183.1	Photosystem II D2 protein OS=Agrostis stolonifera OX=63632 GN=psbD PE=3 SV=1 PSBD_AGRST (+1)	6	6	6
183.2	Photosystem II D2 protein OS=Pisum sativum OX=3888 GN=psbD PE=1 SV=5 PSBD_PEA	6	6	6
184	26S proteasome non-ATPase regulatory subunit 1 homolog A OS=Arabidopsis thaliana OX=3 PSD1A_ARATH	5	4	6
185	26S proteasome non-ATPase regulatory subunit 2 homolog A OS=Arabidopsis thaliana OX=3 PSD2A_ARATH	4	4	5
186	Ras-related protein RABG3a OS=Arabidopsis thaliana OX=3702 GN=RABG3A PE=2 SV=1 RAG3A_ARATH	4	4	3

187.1	Transketolase, chloroplastic OS=Solanum tuberosum OX=4113 PE=2 SV=1	TKTC_SOLTU	5	4	3
187.2	Transketolase-2, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=TKL-2 PE=1 SV=1	TKTC2_ARATH	2	2	2
187.3	Transketolase, chloroplastic OS=Zea mays OX=4577 PE=1 SV=1	TKTC_MAIZE		2	2
188	Probable receptor-like protein kinase At5g59700 OS=Arabidopsis thaliana OX=3702 GN=At5g59700 Y5597_ARATH		2	2	2
189	30S ribosomal protein S11, chloroplastic OS=Nicotiana tomentosiformis OX=4098 GN=rps1 RR11_NICTO				3
190.1	Endoplasmin homolog OS=Hordeum vulgare OX=4513 PE=2 SV=1	ENPL_HORVU	5	4	6
190.2	Endoplasmin homolog OS=Catharanthus roseus OX=4058 GN=HSP90 PE=2 SV=1	ENPL_CATRO	6	5	6
190.3	Endoplasmin homolog OS=Arabidopsis thaliana OX=3702 GN=HSP90-7 PE=1 SV=1	ENPL_ARATH			6
191	Tripeptidyl-peptidase 2 OS=Oryza sativa subsp. japonica OX=39947 GN=TPP2 PE=2 SV=1	TPPII_ORYSJ	3	4	5
192	Mitochondrial dicarboxylate/tricarboxylate transporter DTC OS=Arabidopsis thaliana OX=3702 GN=DTC DTC_ARATH		3	3	2
193	ADP-ribosylation factor-like protein 8a OS=Arabidopsis thaliana OX=3702 GN=ARL8A PE=2 SV=1 ARL8A_ARATH (+1)		4	4	4
194	Bifunctional 6(G)-fructosyltransferase/2,1-fructan:2,1-fructan 1-fructosyltransferase OS=All GFT_ALLCE		5	4	3
195	Malate dehydrogenase, cytoplasmic OS=Zea mays OX=4577 PE=1 SV=2	MDHC_MAIZE	4	4	3
196	60S ribosomal protein L34-3 OS=Arabidopsis thaliana OX=3702 GN=RPL34C PE=2 SV=1	RL343_ARATH	3	3	3
197.1	Glutamine synthetase leaf isozyme, chloroplastic OS=Phaseolus vulgaris OX=3885 PE=2 SV=1 GLNA4_PHAVU		2	2	2
197.2	Glutamine synthetase cytosolic isozyme 1-2 OS=Arabidopsis thaliana OX=3702 GN=GLN1-2 GLN12_ARATH		3	3	
197.3	Glutamine synthetase, chloroplastic/mitochondrial OS=Arabidopsis thaliana OX=3702 GN=GLNA2_ARATH				2
198	Phosphoribulokinase, chloroplastic OS=Mesembryanthemum crystallinum OX=3544 PE=2 SV=1 KPPR_MESCR		5	5	4
199.1	26S proteasome regulatory subunit 4 homolog OS=Oryza sativa subsp. japonica OX=39947 GN=PRS4_ORYSJ		4	6	5
199.2	26S proteasome regulatory subunit 4 homolog B OS=Arabidopsis thaliana OX=3702 GN=PR4B PRS4B_ARATH		4	6	5
200	GTP-binding nuclear protein Ran-1 OS=Arabidopsis thaliana OX=3702 GN=RAN1 PE=1 SV=1 RAN1_ARATH (+6)		5	4	5
201	50S ribosomal protein L28, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=RPL28 PE=1 SV=1 RK28_ARATH		4	2	3
202	Elongation factor 1-gamma 1 OS=Oryza sativa subsp. japonica OX=39947 GN=Os02g022060 EF1G1_ORYSJ		2	3	2
203	Calnexin homolog OS=Helianthus tuberosus OX=4233 PE=2 SV=1	CALX_HELTU	4	4	4
204	Cytochrome c oxidase subunit 6b-1 OS=Arabidopsis thaliana OX=3702 GN=COX6B-1 PE=1 SV=1 CX6B1_ARATH		2	2	2
205.1	60S ribosomal protein L9-1 OS=Arabidopsis thaliana OX=3702 GN=RPL9B PE=1 SV=3	RL91_ARATH		2	2
205.2	60S ribosomal protein L9 OS=Pisum sativum OX=3888 GN=RPL9 PE=2 SV=1	RL9_PEA		2	2
206	Cytochrome b-c1 complex subunit 7 OS=Solanum tuberosum OX=4113 PE=1 SV=1	QCR7_SOLTU	2	2	2
207.1	Aminomethyltransferase, mitochondrial OS=Flaveria pringlei OX=4226 GN=GDCST PE=2 SV=1 GCST_FLAPR		3	3	3
207.2	Aminomethyltransferase, mitochondrial OS=Solanum tuberosum OX=4113 GN=GDCST PE=2 SV=1 GCST_SOLTU		2		
208	Nascent polypeptide-associated complex subunit alpha-like protein 3 OS=Arabidopsis thaliana OX=3702 GN=NACA3 NACA3_ARATH		4	4	4
209	26S proteasome regulatory subunit 10B homolog A OS=Arabidopsis thaliana OX=3702 GN=PS10A PS10A_ARATH		5	5	5
210	Protein RETICULATA-RELATED 4, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=RER4 RER4_ARATH		3	3	3
211.1	DEAD-box ATP-dependent RNA helicase 52C OS=Oryza sativa subsp. japonica OX=39947 GN=RH52C_ORYSJ		2	3	4
211.2	DEAD-box ATP-dependent RNA helicase 52B OS=Oryza sativa subsp. japonica OX=39947 GN=RH52B_ORYSJ			2	2

211.3	DEAD-box ATP-dependent RNA helicase 37	OS=Arabidopsis thaliana OX=3702 GN=RH37 PE=1 SV=1	RH37_ARATH	2	3	
212.1	60S ribosomal protein L24	OS=Prunus avium OX=42229 GN=RPL24 PE=2 SV=1	RL24_PRUAV	2	2	2
212.2	60S ribosomal protein L24	OS=Cicer arietinum OX=3827 GN=RPL24 PE=2 SV=1	RL24_CICAR	2	2	2
213	40S ribosomal protein S23	OS=Frangia ananassa OX=3747 GN=RPS23 PE=2 SV=1	RS23_FRAAN	4	4	3
214.1	Protein TOC75-3, chloroplastic	OS=Arabidopsis thaliana OX=3702 GN=TOC75-3 PE=1 SV=1	TC753_ARATH	3	4	4
214.2	Protein TOC75, chloroplastic	OS=Oryza sativa subsp. japonica OX=39947 GN=TOC75 PE=2 SV=1	TOC75_ORYSJ	3	4	3
215.1	50S ribosomal protein L14, chloroplastic	OS=Vitis vinifera OX=29760 GN=rpl14 PE=3 SV=1	RK14_VITVI	2	2	
215.2	50S ribosomal protein L14, chloroplastic	OS=Ipomoea purpurea OX=4121 GN=rpl14 PE=3 SV=1	RK14_IPOPU	2		
216	Thioredoxin-like protein CDSF32, chloroplastic	OS=Arabidopsis thaliana OX=3702 GN=CDSF32	CDSF_ARATH	2	2	2
217	50S ribosomal protein L16, chloroplastic	OS=Calycanthus floridus var. glaucus OX=212734	RK16_CALFG	3	2	2
218	60S ribosomal protein L35-1	OS=Arabidopsis thaliana OX=3702 GN=RPL35A PE=2 SV=1	RL351_ARATH	3	2	2
219	60S ribosomal protein L18-2	OS=Arabidopsis thaliana OX=3702 GN=RPL18B PE=1 SV=2	RL182_ARATH	2	2	2
220	3-deoxy-manno-octulosonate cytidyltransferase	OS=Zea mays OX=4577 GN=KDSB PE=1 SV=1	KDSB_MAIZE		2	
221.1	Stromal 70 kDa heat shock-related protein, chloroplastic (Fragment)	OS=Spinacia oleracea OX=3562 GN=HSP7S	HSP7S_SPIOL	5		4
221.2	Heat shock 70 kDa protein 6, chloroplastic	OS=Arabidopsis thaliana OX=3702 GN=HSP70-6	HSP7F_ARATH	5	4	4
222.1	Triosephosphate isomerase, cytosolic	OS=Oryza sativa subsp. japonica OX=39947 GN=TPI PE=1 SV=1	TPIS_ORYSJ	2	2	2
222.2	Triosephosphate isomerase, cytosolic	OS=Zea mays OX=4577 PE=1 SV=3	TPIS_MAIZE	2	2	2
222.3	Triosephosphate isomerase, cytosolic	OS=Secale cereale OX=4550 PE=2 SV=3	TPIS_SECCE		2	
223	Probable serine/threonine-protein kinase BSK3	OS=Oryza sativa subsp. japonica OX=39947 GN=BSK3	BSK3_ORYSJ	3	2	4
224.1	ABC transporter C family member 9	OS=Arabidopsis thaliana OX=3702 GN=ABCC9 PE=2 SV=2	AB9C_ARATH	2	2	2
224.2	ABC transporter C family member 5	OS=Arabidopsis thaliana OX=3702 GN=ABCC5 PE=2 SV=2	AB5C_ARATH		3	3
225	Probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	OS=Arabidopsis thaliana OX=3702 GN=NDUAC	NDUAC_ARATH	2	2	2
226	G-type lectin S-receptor-like serine/threonine-protein kinase	At1g34300 OS=Arabidopsis thaliana OX=3702 GN=At1g34300	Y1343_ARATH	4	2	
227	ATP synthase subunit d, mitochondrial	OS=Arabidopsis thaliana OX=3702 GN=At3g52300	ATP5H_ARATH	4	4	5
228.1	Formate-tetrahydrofolate ligase	OS=Arabidopsis thaliana OX=3702 GN=THFS PE=2 SV=1	FTHS_ARATH	3	2	2
228.2	Formate-tetrahydrofolate ligase	OS=Spinacia oleracea OX=3562 PE=1 SV=3	FTHS_SPIOL	4	2	2
229.1	Malate dehydrogenase, glyoxysomal	OS=Oryza sativa subsp. japonica OX=39947 GN=Os12g0000000	MDHG_ORYSJ	4	5	3
229.2	Malate dehydrogenase 2, glyoxysomal	OS=Brassica napus OX=3708 GN=MDH2 PE=3 SV=1	MDHG2_BRANA (+1)	4	4	3
230	S-adenosylmethionine synthase 1	OS=Populus trichocarpa OX=3694 GN=METK1 PE=2 SV=1	METK1_POPTR	3	4	4
231	NADH-ubiquinone oxidoreductase chain 2	OS=Arabidopsis thaliana OX=3702 GN=ND2 PE=2 SV=1	NU2M_ARATH (+1)	3	2	4
232.1	Photosystem II 22 kDa protein, chloroplastic	OS=Spinacia oleracea OX=3562 GN=PSBS PE=1 SV=1	PSBS_SPIOL	4	4	3
232.2	Photosystem II 22 kDa protein 2, chloroplastic	OS=Oryza sativa subsp. indica OX=39946 GN=PSBS2	PSBS2_ORYSI (+1)	2	2	2
233	40S ribosomal protein SA	OS=Vitis vinifera OX=29760 GN=GSVIVT00034021001 PE=3 SV=1	RSSA_VITVI	3	5	4
234	Cluster of NADH-ubiquinone oxidoreductase chain 4	OS=Arabidopsis thaliana OX=3702 GN=ND4	NU4M_ARATH	3	3	3
234.1	NADH-ubiquinone oxidoreductase chain 4	OS=Arabidopsis thaliana OX=3702 GN=ND4 PE=2 SV=1	NU4M_ARATH	3	3	3

235	60S ribosomal protein L31 OS=Perilla frutescens OX=48386 GN=RPL31 PE=2 SV=1	RL31_PERFR	3	3	3
236	50S ribosomal protein L15, chloroplastic (Fragment) OS=Pisum sativum OX=3888 GN=RPL1 RK15_PEA		3	4	3
237	Ras-related protein RABC1 OS=Arabidopsis thaliana OX=3702 GN=RABC1 PE=1 SV=1	RABC1_ARATH	5	4	5
238.1	ABC transporter C family member 12 OS=Arabidopsis thaliana OX=3702 GN=ABCC12 PE=2 SV=1	AB12C_ARATH	3	2	2
238.2	ABC transporter C family member 1 OS=Arabidopsis thaliana OX=3702 GN=ABCC1 PE=1 SV=1	AB1C_ARATH			4
239	Acetyl-coenzyme A carboxylase carboxyl transferase subunit alpha, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=ACCA	ACCA_ARATH	3	2	
240	Serine hydroxymethyltransferase 1, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=SLY1	GLYM1_ARATH	3	2	3
241	30S ribosomal protein S2, chloroplastic OS=Spinacia oleracea OX=3562 GN=rps2 PE=1 SV=1	RR2_SPIOL	2		2
242	Trans-cinnamate 4-monooxygenase OS=Petroselinum crispum OX=4043 GN=CYP73A10 PE=1 SV=1	TCMO_PETCR	2		
243	ABC transporter B family member 25 OS=Oryza sativa subsp. japonica OX=39947 GN=ABCB2	AB25B_ORYSJ	4	4	4
244.1	ATP-dependent zinc metalloprotease FTSH 3, mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=FTSH3	FTSH3_ORYSJ	3	4	4
244.2	ATP-dependent zinc metalloprotease FTSH 8, mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=FTSH8	FTSH8_ORYSJ	4	3	3
245	NADP-dependent malic enzyme OS=Vitis vinifera OX=29760 PE=2 SV=1	MAOX_VITVI	3	3	3
246	26S proteasome non-ATPase regulatory subunit 11 homolog OS=Arabidopsis thaliana OX=3702 GN=PSD11	PSD11_ARATH	3	5	3
247	Probable calcium-transporting ATPase 9, plasma membrane-type 9A OS=Oryza sativa subsp. japonica OX=39947 GN=ACA9	ACA9_ORYSJ	4		3
248	Syntaxin-23 OS=Arabidopsis thaliana OX=3702 GN=SYP23 PE=1 SV=1	SYP23_ARATH	3	4	3
249.1	Gamma carbonic anhydrase 3, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=GAMV	GCA3_ARATH	2	2	2
249.2	Gamma carbonic anhydrase 2, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=GAMV	GCA2_ARATH	2		2
250	V-type proton ATPase subunit H OS=Arabidopsis thaliana OX=3702 GN=VHA-H PE=1 SV=1	VATH_ARATH	3	3	2
251.1	UTP--glucose-1-phosphate uridylyltransferase 1 OS=Arabidopsis thaliana OX=3702 GN=UGP1	UGPA1_ARATH	3		2
251.2	UTP--glucose-1-phosphate uridylyltransferase OS=Hordeum vulgare OX=4513 PE=2 SV=1	UGPA_HORVU		3	
252	ATP synthase gamma chain 1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=ATPC1	ATPG1_ARATH	3		
253	ATP synthase epsilon chain, chloroplastic OS=Phalaenopsis aphrodite subsp. formosana OX=39947 GN=ATPE	PHAAO	3	4	2
254	Sodium/calcium exchanger NCL1 OS=Oryza sativa subsp. japonica OX=39947 GN=NCL1 PE=2 SV=1	NCL1_ORYSJ (+1)	2	2	2
255	Photosystem I reaction center subunit N, chloroplastic (Fragment) OS=Zea mays OX=4577 GN=PSAN	MAIZE	5	5	4
256	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial OS=Oryza sativa OX=39947 GN=SDHA	ORYSJ	5	7	6
257	ADP,ATP carrier protein 1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=AATP1 PE=1 SV=1	TLC1_ARATH	3	2	3
258	Fructose-1,6-bisphosphatase 1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=CFBP1	F16P1_ARATH	4	3	5
259	Proline-rich receptor-like protein kinase PERK2 OS=Arabidopsis thaliana OX=3702 GN=PERK	PERK2_ARATH	3	3	3
260	Mitochondrial uncoupling protein 1 OS=Arabidopsis thaliana OX=3702 GN=PUMP1 PE=1 SV=1	PUMP1_ARATH	2	2	3
261	Triose phosphate/phosphate translocator, chloroplastic OS=Pisum sativum OX=3888 GN=TPT	PEA	4	3	2
262	Fructose-1,6-bisphosphatase, cytosolic OS=Brassica napus OX=3708 PE=2 SV=1	F16P2_BRANA	4	4	4
263	Obg-like ATPase 1 OS=Arabidopsis thaliana OX=3702 GN=YchF1 PE=1 SV=1	OLA1_ARATH	5	4	5
264	Ethanolamine-phosphate cytidylyltransferase OS=Arabidopsis thaliana OX=3702 GN=PECT1	PECT1_ARATH	3	4	3
265.1	Proteasome subunit alpha type-5 OS=Oryza sativa subsp. japonica OX=39947 GN=PAE1 PE=2	PSA5_ORYSJ	4	4	5

265.2	Proteasome subunit alpha type-5-A	OS=Arabidopsis thaliana OX=3702 GN=PAE1 PE=1 SV=1	PSA5A_ARATH (+1)	4		
266	Vesicle-associated membrane protein 721	OS=Arabidopsis thaliana OX=3702 GN=VAMP721	VA721_ARATH (+1)	3	3	3
267	V-type proton ATPase subunit C	OS=Hordeum vulgare OX=4513 GN=VATC PE=1 SV=1	VATC_HORVU	4	4	2
268	Cytochrome P450 97B1, chloroplastic	OS=Pisum sativum OX=3888 GN=CYP97B1 PE=2 SV=1	C97B1_PEA	3	3	3
269.1	Isocitrate dehydrogenase [NAD] catalytic subunit 6, mitochondrial	OS=Arabidopsis thaliana	IDH6_ARATH		2	2
269.2	3-isopropylmalate dehydrogenase, chloroplastic	OS=Solanum tuberosum OX=4113 PE=2 SV=1	LEU3_SOLTU	2	3	3
270	Succinate dehydrogenase [ubiquinone] iron-sulfur subunit 1, mitochondrial	OS=Oryza sativa	SDHB1_ORYSJ	2	2	
271	Delta(24)-sterol reductase	OS=Arabidopsis thaliana OX=3702 GN=DIM PE=1 SV=2	DIM_ARATH	2	2	2
272	60S ribosomal protein L36	OS=Daucus carota OX=4039 GN=RPL36 PE=3 SV=2	RL36_DAUCA	2	2	2
273	Chlorophyll a-b binding protein, chloroplastic	OS=Petunia hybrida OX=4102 PE=2 SV=1	CB12_PETHY	2		
274.1	Ras-related protein Rab5A	OS=Oryza sativa subsp. japonica OX=39947 GN=RAB5A PE=1 SV=1	RAB5A_ORYSJ	2	2	2
274.2	Ras-related protein RHN1	OS=Nicotiana glauca OX=4092 GN=RHN1 PE=2 SV=1	RHN1_NICPL	2		
275	Serine/threonine-protein kinase BSK6	OS=Arabidopsis thaliana OX=3702 GN=BSK6 PE=1 SV=1	BSK6_ARATH	3	3	3
276	Chlorophyll a-b binding protein CP29.1, chloroplastic	OS=Arabidopsis thaliana OX=3702 GN=CB4A	CB4A_ARATH	2	2	
277	Phosphoinositide phospholipase C 7	OS=Arabidopsis thaliana OX=3702 GN=PLC7 PE=1 SV=1	PLC7_ARATH			2
278	Phosphoinositide phospholipase C 3	OS=Arabidopsis thaliana OX=3702 GN=PLC3 PE=2 SV=1	PLC3_ARATH	2	2	
279	Callose synthase 5	OS=Arabidopsis thaliana OX=3702 GN=CALS5 PE=1 SV=1	CALS5_ARATH			2
280	30S ribosomal protein S12, chloroplastic	OS=Arabidopsis thaliana OX=78191 GN=rps12-A PE=3 SV=1	RR12_ARAHI	2		2
281	Serine/threonine-protein kinase BSK1	OS=Arabidopsis thaliana OX=3702 GN=BSK1 PE=1 SV=1	BSK1_ARATH	2	3	4
282	Chlorophyll a-b binding protein CP26, chloroplastic	OS=Arabidopsis thaliana OX=3702 GN=CB5	CB5_ARATH	3	3	4
283	Casein kinase II subunit alpha-1	OS=Arabidopsis thaliana OX=3702 GN=CKA1 PE=1 SV=3	CKA1_ARATH	3	3	3
284.1	Glucose-6-phosphate 1-dehydrogenase, chloroplastic	OS=Nicotiana glauca OX=4097 PE=2 SV=1	G6PDC_TOBAC		4	3
284.2	Glucose-6-phosphate 1-dehydrogenase, chloroplastic	OS=Solanum tuberosum OX=4113 PE=1 SV=1	G6PDC_SOLTU	3		3
285	Photosystem II stability/assembly factor HCF136, chloroplastic	OS=Oryza sativa subsp. japonica OX=39947 GN=P2SAF	P2SAF_ORYSJ	4	5	2
286	50S ribosomal protein L17, chloroplastic	OS=Spinacia oleracea OX=3562 GN=RPL17 PE=1 SV=1	RPL17_SPIOL	3	4	4
287	Protein translocase subunit SecA, chloroplastic	OS=Pisum sativum OX=3888 GN=SecA PE=1 SV=1	SECA_PEA	5	4	4
288.1	Fructose-bisphosphate aldolase, cytoplasmic isozyme 2	OS=Pisum sativum OX=3888 PE=3 SV=1	ALF2_PEA	4	4	
288.2	Fructose-bisphosphate aldolase 8, cytosolic	OS=Arabidopsis thaliana OX=3702 GN=FBA8 PE=1 SV=1	FBA8_ARATH			6
289	Cysteine synthase	OS=Brassica juncea OX=3707 PE=2 SV=1	CYSK2_BRAJU	3	2	3
290	Callose synthase 10	OS=Arabidopsis thaliana OX=3702 GN=CALS10 PE=2 SV=5	CALS10_ARATH	5	3	3
291	Carotenoid 9,10(9',10')-cleavage dioxygenase 1	OS=Phaseolus vulgaris OX=3885 GN=CCD1	CCD1_PHAVU	2	2	3
292	Probable methyltransferase PMT8	OS=Arabidopsis thaliana OX=3702 GN=At1g04430 PE=2 SV=1	PMT8_ARATH	3	4	2
293	Protein TOC75, chloroplastic	OS=Pisum sativum OX=3888 GN=TOC75 PE=1 SV=1	TOC75_PEA	3	5	5
294	ATP synthase delta chain, chloroplastic	OS=Spinacia oleracea OX=3562 GN=ATPD PE=1 SV=2	ATPD_SPIOL	2	2	2
295	Cytochrome f	OS=Citrus sinensis OX=2711 GN=petA PE=3 SV=1	CYF_CITSI	2	2	2

296	Cytochrome b559 subunit alpha OS=Amborella trichopoda OX=13333 GN=psbE PE=3 SV=3 PSBE_AMBTC (+15)	2	2	2
297	Guanosine nucleotide diphosphate dissociation inhibitor 1 OS=Arabidopsis thaliana OX=37 GDI1_ARATH	2	2	
298	NADH-cytochrome b5 reductase-like protein OS=Arabidopsis thaliana OX=3702 GN=CBR2 PI NB5R2_ARATH	2	2	
299	Protochlorophyllide reductase, chloroplastic OS=Pisum sativum OX=3888 GN=3PCR PE=1 S POR_PEA	2		3
300	60S ribosomal protein L39-1 OS=Arabidopsis thaliana OX=3702 GN=RPL39A PE=3 SV=2 RL391_ARATH	2	2	2
301	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A gamma isoform OS=A 2AAG_ARATH	2	3	2
302	60S ribosomal protein L32-1 OS=Arabidopsis thaliana OX=3702 GN=RPL32A PE=2 SV=2 RL321_ARATH	2		2
303	Cyclin-dependent kinase A-2 OS=Oryza sativa subsp. japonica OX=39947 GN=CDKA-2 PE=2 SV=1 CDKA2_ORYSJ	3	4	
304	Biotin carboxylase 2, chloroplastic OS=Populus trichocarpa OX=3694 GN=POPTR_0018514 ACDC2_POPTR	4	4	3
305.1	Alcohol dehydrogenase OS=Fragaria ananassa OX=3747 GN=ADH PE=3 SV=2 ADH_FRAAN	3	4	3
305.2	Alcohol dehydrogenase OS=Malus domestica OX=3750 GN=ADH PE=2 SV=1 ADH_MALDO	2	3	2
305.3	Alcohol dehydrogenase 1 OS=Petunia hybrida OX=4102 GN=ADH1 PE=1 SV=1 ADH1_PETHY		3	2
306	Fructose-bisphosphate aldolase 5, cytosolic OS=Arabidopsis thaliana OX=3702 GN=FBA5 PE=1 ALFC5_ARATH	4	3	5
307	Fructose-bisphosphate aldolase 1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=FBA: ALFP1_ARATH	3	3	3
308	Probable inactive ATP-dependent zinc metalloprotease FTSH1 4, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=FTSH1 FTSH1_ARATH	3	3	4
309	DnaJ homolog subfamily C GRV2 OS=Arabidopsis thaliana OX=3702 GN=GRV2 PE=1 SV=1 GRV2_ARATH		4	
310	DEAD-box ATP-dependent RNA helicase 15 OS=Oryza sativa subsp. japonica OX=39947 GN=A RH15_ORYSJ (+1)	3	3	2
311	Receptor-like kinase TMK2 OS=Arabidopsis thaliana OX=3702 GN=TMK2 PE=1 SV=1 TMK2_ARATH	3	4	3
312.1	Serine/threonine-protein phosphatase BSL1 homolog OS=Oryza sativa subsp. japonica OX=3 BSL1_ORYSJ	2	2	3
312.2	Serine/threonine-protein phosphatase BSL2 OS=Arabidopsis thaliana OX=3702 GN=BSL2 PE=1 BSL2_ARATH	2		
313	Ubiquitin-conjugating enzyme E2 36 OS=Arabidopsis thaliana OX=3702 GN=UBC36 PE=1 SV=1 UBC36_ARATH	3	3	
314	Vesicle-fusing ATPase OS=Arabidopsis thaliana OX=3702 GN=NSF PE=2 SV=2 NSF_ARATH	3	4	2
315	Phytophycin OS=Hordeum vulgare OX=4513 PE=1 SV=1 ASPR_HORVU	3	3	3
316	30S ribosomal protein S10, chloroplastic OS=Mesembryanthemum crystallinum OX=3544 GN=RR10_MESCR	2	2	2
317	Vacuolar protein sorting-associated protein 26A OS=Arabidopsis thaliana OX=3702 GN=VPS VP26A_ARATH	2	3	3
318	Mitochondrial pyruvate carrier 2 OS=Arabidopsis thaliana OX=3702 GN=MPC2 PE=3 SV=1 MPC2_ARATH (+2)	2	2	2
319	60S ribosomal protein L23 OS=Syntrichia ruralis OX=38588 GN=RPL23 PE=2 SV=1 RL23_SYNRU	3	3	3
320	Galactolipid galactosyltransferase SFR2, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=SFR2_ARATH	3	2	
321	Tripeptidyl-peptidase 2 OS=Arabidopsis thaliana OX=3702 GN=TPP2 PE=1 SV=1 TPPII_ARATH	2	2	2
322.1	Calcium-transporting ATPase 10, plasma membrane-type OS=Arabidopsis thaliana OX=3702 ACA10_ARATH	2		
322.2	Calcium-transporting ATPase 8, plasma membrane-type OS=Arabidopsis thaliana OX=3702 GN=ACA8_ARATH	3		
323	40S ribosomal protein S10-2 OS=Arabidopsis thaliana OX=3702 GN=RPS10B PE=2 SV=1 RS102_ARATH	2	2	2
324	Heat shock protein 83 OS=Ipomoea nil OX=35883 GN=HSP83A PE=2 SV=1 HSP83_IPONI	4	3	6
325	Outer plastidial membrane protein porin OS=Pisum sativum OX=3888 GN=POR1 PE=1 SV=2 VDAC_PEA		2	
326	L-galactono-1,4-lactone dehydrogenase 2, mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=GLDH2_ORYSJ	2	2	2

327	Heat shock 70 kDa protein 9, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=HSP70-9 HSP7I_ARATH			4
328	2-Cys peroxiredoxin BAS1, chloroplastic OS=Oryza sativa subsp. japonica OX=39947 GN=BAS1_ORYSJ	2	3	2
329	Calcium-dependent protein kinase 29 OS=Arabidopsis thaliana OX=3702 GN=CPK29 PE=2 SV=1 CDPKT_ARATH	3	3	3
330	Hexokinase-7 OS=Oryza sativa subsp. japonica OX=39947 GN=HXK7 PE=2 SV=2 HXK7_ORYSJ	2	2	2
331	Succinate dehydrogenase subunit 5, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=SDH5_ARATH	2	2	2
332	ABC transporter B family member 1 OS=Arabidopsis thaliana OX=3702 GN=ABCB1 PE=1 SV=1 AB1B_ARATH	2	4	3
333	Vacuolar protein sorting-associated protein 41 homolog OS=Solanum lycopersicum OX=4081 VPS41_SOLLC	3	2	2
334	Aconitate hydratase 3, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=ACO3 PE=1 SV=1 ACO3M_ARATH		3	
335	L-ascorbate peroxidase 2, cytosolic OS=Oryza sativa subsp. japonica OX=39947 GN=APX2 PE=1 SV=1 APX2_ORYSJ	2	2	2
336	ATP synthase protein MI25 OS=Triticum timopheevii OX=4570 PE=3 SV=1 MI25_TRITI (+1)	2	2	2
337	Carotenoid 9,10(9',10')-cleavage dioxygenase OS=Crocus sativus OX=82528 GN=CCD PE=1 SV=1 CCD_CROSA	3		3
338	ADP-ribosylation factor-like protein 8c OS=Arabidopsis thaliana OX=3702 GN=ARL8C PE=2 SV=1 ARL8C_ARATH	2	2	2
339	Peroxisomal membrane protein 11-5 OS=Oryza sativa subsp. japonica OX=39947 GN=PEX11 PX115_ORYSJ	2	2	2
340	Casein kinase 1-like protein 1 OS=Arabidopsis thaliana OX=3702 GN=CKL1 PE=2 SV=2 CKL1_ARATH	3	3	
341	Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase, chloroplastic OS=Gos: CRD1_GOSHI		4	
342	Histone H2A OS=Zea mays OX=4577 PE=2 SV=1 H2A_MAIZE	3		3
343	50S ribosomal protein L20, chloroplastic OS=Phalaenopsis aphrodite subsp. formosana OX=10000 RK20_PHAEO			2
344	Coatomer subunit alpha-2 OS=Arabidopsis thaliana OX=3702 GN=At2g21390 PE=2 SV=1 COPA2_ARATH	5	3	5
345	Coatomer subunit beta-1 OS=Arabidopsis thaliana OX=3702 GN=At4g31480 PE=3 SV=2 COPB1_ARATH (+1)	3	4	4
346	Peroxiredoxin Q, chloroplastic (Fragment) OS=Sedum lineare OX=114260 GN=PRXQ PE=1 SV=1 PERQ_SEDLI	4	3	4
347	Proteasome subunit beta type-6 OS=Arabidopsis thaliana OX=3702 GN=PBA1 PE=1 SV=2 PSB6_ARATH	3	3	2
348	Transmembrane 9 superfamily member 1 OS=Arabidopsis thaliana OX=3702 GN=TMN1 PE=1 SV=1 TMN1_ARATH	3	2	3
349.1	30S ribosomal protein S1, chloroplastic OS=Spinacia oleracea OX=3562 GN=RPS1 PE=1 SV=1 RR1_SPIOL	3	2	3
349.2	30S ribosomal protein S1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=RPS1 PE=1 SV=1 RPS1_ARATH		2	
350	Vacuolar protein sorting-associated protein 32 homolog 1 OS=Arabidopsis thaliana OX=3702 VP321_ARATH	3	2	3
351	Glycerate dehydrogenase HPR, peroxisomal OS=Arabidopsis thaliana OX=3702 GN=HPR PE=1 SV=1 HPR1_ARATH	3	3	2
352	LysM domain receptor-like kinase 3 OS=Medicago truncatula OX=3880 GN=LYK3 PE=1 SV=1 LYK3_MEDTR	3	3	2
353	Photosystem I chlorophyll a/b-binding protein 2, chloroplastic OS=Arabidopsis thaliana OX=3702 LHCA2_ARATH	2	2	2
354	30S ribosomal protein S11, chloroplastic OS=Adiantum capillus-veneris OX=13818 GN=rps11 RR11_ADICA	2	2	2
355.1	Probable UDP-arabinopyranose mutase 1 (Fragments) OS=Phoenix dactylifera OX=42345 PE=1 SV=1 RGP1_PHODC		2	
355.2	Probable UDP-arabinopyranose mutase 1 OS=Solanum tuberosum OX=4113 GN=UPTG1 PE=1 SV=1 RGP1_SOLTU	2		2
356	Beta-glucosidase 1 OS=Oryza sativa subsp. japonica OX=39947 GN=BGLU1 PE=2 SV=1 BGL01_ORYSJ	3	3	4
357	Chlorophyll a-b binding protein 6A, chloroplastic OS=Solanum lycopersicum OX=4081 GN=CB11_SOLLC	2	2	2
358	Cytochrome c OS=Allium porrum OX=4681 PE=1 SV=1 CYC_ALLPO	3	3	
359	30S ribosomal protein S19, chloroplastic OS=Picea abies OX=3329 GN=rps19 PE=3 SV=1 RR19_PICAB (+1)	2	2	2

360	RHOMBOID-like protein 6, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=RBL6 PE=2	RBL6_ARATH	2	2	
361	Proteasome subunit beta type-5-B OS=Arabidopsis thaliana OX=3702 GN=PBE2 PE=1 SV=1	PSB5B_ARATH		2	2
362	Chloride channel protein CLC-a OS=Arabidopsis thaliana OX=3702 GN=CLC-A PE=1 SV=2	CLCA_ARATH		2	2
363	Non-structural maintenance of chromosomes element 4 homolog A OS=Arabidopsis thaliana OX=3702 GN=NSE4A PE=1 SV=1	NSE4A_ARATH	2	2	2
364	Allene oxide synthase 2, chloroplastic OS=Solanum lycopersicum OX=4081 GN=AOS2 PE=1 SV=1	AOS2_SOLLC	2	2	
365	PLAT domain-containing protein 1 OS=Arabidopsis thaliana OX=3702 GN=PLAT1 PE=1 SV=1	PLAT1_ARATH		2	
366	Probable inactive ATP-dependent zinc metalloprotease FTSI5, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=FTSI5 PE=1 SV=1	FTSI5_ARATH		2	
367	Pyrophosphate-energized membrane proton pump 2 OS=Arabidopsis thaliana OX=3702 GN=AVP2 PE=1 SV=1	AVP2_ARATH	2	3	2
368	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9 OS=Arabidopsis thaliana OX=3702 GN=NDUB9 PE=1 SV=1	NDUB9_ARATH	3	2	3
369	Dihydroorotate dehydrogenase (quinone), mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=PYRD PE=1 SV=1	PYRD_ORYSJ	2	3	4
370	Ribonuclease J OS=Arabidopsis thaliana OX=3702 GN=RNJ PE=1 SV=1	RNJ_ARATH	2	4	2
371	Beta-adaptin-like protein C OS=Arabidopsis thaliana OX=3702 GN=BETAC-AD PE=1 SV=2	APBLC_ARATH	4	3	2
372	Serine/threonine-protein kinase BSK2 OS=Arabidopsis thaliana OX=3702 GN=BSK2 PE=1 SV=1	BSK2_ARATH	3	4	
373	D-3-phosphoglycerate dehydrogenase 2, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=SERA2 PE=1 SV=1	SERA2_ARATH	3	3	2
374	Phosphoglucomutase, cytoplasmic OS=Pisum sativum OX=3888 GN=PGM1 PE=2 SV=1	PGMC_PEA	3	6	4
375.1	Serine/threonine-protein phosphatase PP2A catalytic subunit OS=Hevea brasiliensis OX=3989 GN=PP2A PE=1 SV=1	PP2A_HEVBR		2	3
375.2	Serine/threonine-protein phosphatase PP2A-3 catalytic subunit OS=Arabidopsis thaliana OX=3702 GN=PP2A3 PE=1 SV=1	PP2A3_ARATH (+2)			3
376	Protein CURVATURE THYLAKOID 1A, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=CU CUT1A PE=1 SV=1	CUT1A_ARATH		3	3
377	Glucose-6-phosphate 1-dehydrogenase, cytoplasmic isoform OS=Solanum tuberosum OX=4081 GN=G6PD PE=1 SV=1	G6PD_SOLTU	3	2	2
378.1	Malate dehydrogenase [NADP], chloroplastic OS=Zea mays OX=4577 GN=MDHP PE=1 SV=1	MDHP_MAIZE	2	2	2
378.2	Malate dehydrogenase [NADP], chloroplastic OS=Flaveria bidentis OX=4224 GN=MDHP PE=1 SV=1	MDHP_FLABI			2
379	Probable protein phosphatase 2C 33 OS=Oryza sativa subsp. japonica OX=39947 GN=Os03g0155601 GN=Os03g0155601 PE=1 SV=1	P2C33_ORYSJ	3	3	3
380	Importin subunit alpha-1b OS=Oryza sativa subsp. japonica OX=39947 GN=Os05g0155601 GN=Os05g0155601 PE=1 SV=1	IMA1B_ORYSJ	2	2	2
381	Protein TIC 214 OS=Lemna minor OX=4472 GN=TIC214 PE=3 SV=1	TI214_LEMMI	3	2	3
382	Protein TIC 22, chloroplastic OS=Pisum sativum OX=3888 GN=TIC22 PE=1 SV=1	TIC22_PEA	3	2	2
383	Isocitrate dehydrogenase [NADP], chloroplastic (Fragment) OS=Medicago sativa OX=3879 GN=IDHP PE=1 SV=1	IDHP_MEDSA	3		3
384	Probable protein phosphatase 2C 9 OS=Arabidopsis thaliana OX=3702 GN=At1g22280 GN=At1g22280 PE=1 SV=1	P2C09_ARATH	3	3	2
385	Aspartic proteinase oryzasin-1 OS=Oryza sativa subsp. japonica OX=39947 GN=Os05g056711 GN=Os05g056711 PE=1 SV=1	ASPR1_ORYSJ	3	3	3
386	Cluster of Probable mediator of RNA polymerase II transcription subunit 36b OS=Arabidopsis thaliana OX=3702 GN=MD36B PE=1 SV=1	MD36B_ARATH [2]	3		
386.1	Probable mediator of RNA polymerase II transcription subunit 36b OS=Arabidopsis thaliana OX=3702 GN=MD36B PE=1 SV=1	MD36B_ARATH	2		
386.2	Mediator of RNA polymerase II transcription subunit 36a OS=Arabidopsis thaliana OX=3702 GN=MD36A PE=1 SV=1	MD36A_ARATH	2		
387	Metal transporter Nramp2 OS=Oryza sativa subsp. japonica OX=39947 GN=NRAMP2 PE=2 SV=1	NRAMP2_ORYSJ	2	2	
388	Proteasome subunit alpha type-7 OS=Cicer arietinum OX=3827 GN=PAD1 PE=2 SV=1	PSA7_CICAR	2	3	2
389	Brefeldin A-inhibited guanine nucleotide-exchange protein 3 OS=Arabidopsis thaliana OX=3702 GN=BIG3 PE=1 SV=1	BIG3_ARATH	2		
390	Pyruvate dehydrogenase E1 component subunit beta-1, mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=ODPB1 PE=1 SV=1	ODPB1_ORYSJ	2	2	2

391	3-deoxy-manno-octulosonate cytidyltransferase, mitochondrial OS=Arabidopsis thaliana	KDSB_ARATH	2	2	2
392	40S ribosomal protein S7 OS=Hordeum vulgare OX=4513 GN=RPS7 PE=2 SV=1	RS7_HORVU	2	2	
393	Oligopeptide transporter 3 OS=Arabidopsis thaliana OX=3702 GN=OPT3 PE=2 SV=3	OPT3_ARATH	2	2	2
394	60S ribosomal protein L27a-3 OS=Arabidopsis thaliana OX=3702 GN=RPL27AC PE=2 SV=2	R27A3_ARATH	2		
395	26S proteasome non-ATPase regulatory subunit 6 homolog OS=Arabidopsis thaliana OX=3702 GN=PSMD6 PE=2 SV=1	PSMD6_ARATH	3	3	2
396	Protein ROOT HAIR DEFECTIVE 3 OS=Oryza sativa subsp. japonica OX=39947 GN=RHD3 PE=2 SV=1	RHD3_ORYSJ	3		2
397	Ras-related protein RABG2 OS=Arabidopsis thaliana OX=3702 GN=RABG2 PE=2 SV=2	RABG2_ARATH	2	2	2
398	Calnexin homolog OS=Glycine max OX=3847 PE=2 SV=1	CALX_SOYBN	4		4
399	Long chain acyl-CoA synthetase 9, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=LACS9 PE=2 SV=1	LACS9_ARATH	2	3	
400	26S proteasome non-ATPase regulatory subunit 6 OS=Oryza sativa subsp. japonica OX=39947 GN=PSMD6 PE=2 SV=1	PSMD6_ORYSJ	4	3	2
401	Dihydroorotate dehydrogenase (quinone), mitochondrial OS=Arabidopsis thaliana OX=3702 GN=PYRD PE=2 SV=1	PYRD_ARATH	3	3	3
402	Sterol 3-beta-glucosyltransferase UGT80A2 OS=Arabidopsis thaliana OX=3702 GN=UGT80A2 PE=2 SV=1	U80A2_ARATH	3		2
403	Alcohol dehydrogenase class-3 OS=Pisum sativum OX=3888 PE=1 SV=1	ADHX_PEA	3	3	
404	40S ribosomal protein S27-1 OS=Arabidopsis thaliana OX=3702 GN=RPS27A PE=3 SV=1	RS271_ARATH (+3)	3	2	3
405	Bifunctional enolase 2/transcriptional activator OS=Arabidopsis thaliana OX=3702 GN=ENO2 PE=2 SV=1	ENO2_ARATH	5	5	3
406	Glycerol-3-phosphate dehydrogenase SDP6, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=SDP6 PE=2 SV=1	SDP6_ARATH	2	3	3
407	Coatomer subunit gamma-2 OS=Oryza sativa subsp. japonica OX=39947 GN=Os07g0201100 COPG2 PE=2 SV=1	COPG2_ORYSJ	3	3	3
408	ATP synthase subunit epsilon, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=At1g51240 ATP5E PE=2 SV=1	ATP5E_ARATH		2	
409	Monodehydroascorbate reductase, seedling isozyme OS=Cucumis sativus OX=3659 PE=2 SV=1	MDARS_CUCSA	2	2	2
410	60S acidic ribosomal protein P2 OS=Parthenium argentatum OX=35935 PE=3 SV=1	RLA2_PARAR	2	2	2
411	Protein ACTIVITY OF BC1 COMPLEX KINASE 8, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=AB1K8 PE=2 SV=1	AB1K8_ARATH	2	3	3
412	Bifunctional nitrilase/nitrile hydratase NIT4A OS=Nicotiana tabacum OX=4097 GN=NIT4A PE=1 SV=1	NRL4A_TOBAC (+1)	2	2	2
413	External alternative NAD(P)H-ubiquinone oxidoreductase B4, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=NDB4 PE=2 SV=1	NDB4_ARATH	2	2	2
414	Probable solanesyl-diphosphate synthase 3, chloroplastic OS=Oryza sativa subsp. japonica OX=39947 GN=SPS3 PE=2 SV=1	SPS3_ORYSJ	2	3	3
415	40S ribosomal protein Sa-1 OS=Arabidopsis thaliana OX=3702 GN=RPSaA PE=1 SV=3	RSSA1_ARATH (+1)	3	4	2
416.1	DNA-directed RNA polymerase subunit alpha OS=Ceratophyllum demersum OX=4428 GN=rpoA PE=2 SV=1	RPOA_CERDE		2	2
416.2	DNA-directed RNA polymerase subunit alpha OS=Drumstick tree OX=224735 GN=rpoA PE=2 SV=1	RPOA_DRIGR		2	
417	50S ribosomal protein L13, chloroplastic OS=Spinacia oleracea OX=3562 GN=RPL13 PE=1 SV=1	RK13_SPIOL	2	2	2
418	Proteasome subunit alpha type-4 OS=Petunia hybrida OX=4102 GN=PAC1 PE=2 SV=1	PSA4_PETHY			2
419	Long chain base biosynthesis protein 2a OS=Oryza sativa subsp. japonica OX=39947 GN=Os11g0524000 LCB2A PE=2 SV=1	LCB2A_ORYSJ		2	3
420	DNA-directed RNA polymerase subunit beta OS=Glycine max OX=3847 GN=rpoC2 PE=3 SV=1	RPOC2_SOYBN		2	
421	Calcium-dependent protein kinase 1 OS=Oryza sativa subsp. japonica OX=39947 GN=CPK1 PE=2 SV=1	CDPK1_ORYSJ	3	3	3
422	Fe-S cluster assembly factor HCF101, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=HCF101 PE=2 SV=1	HF101_ARATH	2		
423	Long chain acyl-CoA synthetase 4 OS=Arabidopsis thaliana OX=3702 GN=LACS4 PE=2 SV=1	LACS4_ARATH			2
424	Histone H2A.2.1 OS=Triticum aestivum OX=4565 PE=1 SV=1	H2A2_WHEAT	2	2	2

425	Glutamine synthetase cytosolic isozyme 1-5 OS=Arabidopsis thaliana OX=3702 GN=GLN1-5 GLN15_ARATH			2
426	30S ribosomal protein S14, chloroplastic OS=Cucumis sativus OX=3659 GN=rps14 PE=3 SV= RR14_CUCSA			2
427	6-phosphogluconate dehydrogenase, decarboxylating 2 OS=Arabidopsis thaliana OX=3702 (6PGD2_ARATH		3	
428	Serine hydroxymethyltransferase 4 OS=Arabidopsis thaliana OX=3702 GN=SHM4 PE=1 SV=1 GLYC4_ARATH	3	2	2
429	GDP-mannose 3,5-epimerase OS=Arabidopsis thaliana OX=3702 GN=At5g28840 PE=1 SV=1 GME_ARATH	2	3	
430	Xylose isomerase OS=Hordeum vulgare OX=4513 GN=XYLA PE=1 SV=1 XYLA_HORVU	3	4	3
431	Putative coatomer subunit beta ¹ -3 OS=Oryza sativa subsp. japonica OX=39947 GN=Os02g02 COB23_ORYSJ	3	2	5
432	Transmembrane 9 superfamily member 6 OS=Arabidopsis thaliana OX=3702 GN=TMN6 PE=2 TMN6_ARATH	3		3
433.1	Pantothenate kinase 2 OS=Arabidopsis thaliana OX=3702 GN=PANK2 PE=1 SV=2 PANK2_ARATH	2	2	2
433.2	Pantothenate kinase 2 OS=Oryza sativa subsp. japonica OX=39947 GN=Os09g0533100 PE=2 PANK2_ORYSJ	2	2	
434	Callose synthase 12 OS=Arabidopsis thaliana OX=3702 GN=CALS12 PE=2 SV=1 CALSC_ARATH	2	4	
435	UPF0603 protein Osl_019212, chloroplastic OS=Oryza sativa subsp. indica OX=39946 GN=C U603_ORYSI (+1)	2	2	2
436	Ketol-acid reductoisomerase, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=At3g586 ILV5_ARATH	3	3	3
437	Coatomer subunit beta-2 OS=Oryza sativa subsp. japonica OX=39947 GN=Os01g0281400 PE COPB2_ORYSJ		4	2
438	ATP-dependent zinc metalloprotease FTSH 4, mitochondrial OS=Arabidopsis thaliana OX=37 FTSH4_ARATH	3	2	
439	DnaJ protein homolog 1 (Fragment) OS=Allium porrum OX=4681 GN=DNAJ1 PE=2 SV=1 DNJH1_ALLPO			2
440	Histone H1-I OS=Volvox carteri OX=3067 GN=H1-I PE=2 SV=3 H11_VOLCA			2
441	ABC transporter G family member 22 OS=Arabidopsis thaliana OX=3702 GN=ABCG22 PE=1 S AB22G_ARATH	2		2
442	Dihydrolipoyllsine-residue acetyltransferase component 2 of pyruvate dehydrogenase com ODP22_ARATH	2	2	
443	SPX domain-containing membrane protein Osl_21475 OS=Oryza sativa subsp. indica OX=39 SPXM3_ORYSI (+1)	3		2
444	26S proteasome non-ATPase regulatory subunit 12 homolog B OS=Arabidopsis thaliana OX= PS12B_ARATH	2		
445	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Oryza s: OST48_ORYSJ	2	2	2
446	Proteasome subunit alpha type-6 OS=Nicotiana tabacum OX=4097 GN=PAA1 PE=2 SV=1 PSA6_TOBAC		2	2
447	Elongation factor G, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=CPEFG PE=1 SV=1 EFGC_ARATH	2	3	
448	ATP-dependent 6-phosphofructokinase 7 OS=Arabidopsis thaliana OX=3702 GN=PFK7 PE=1 PFKA7_ARATH	2		
449	Protein CHUP1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=CHUP1 PE=1 SV=1 CHUP1_ARATH		2	2
450	Pyruvate kinase 1, cytosolic OS=Oryza sativa subsp. indica OX=39946 GN=Osl_35105 PE=3 S' KPYC1_ORYSI (+1)		2	
451	Ubiquinol oxidase 1a, mitochondrial OS=Oryza sativa subsp. japonica OX=39947 GN=AOX1A/ AOX1A_ORYSJ	2	2	
452	NADH-ubiquinone oxidoreductase chain 5 OS=Marchantia polymorpha OX=3197 GN=ND5 F NU5M_MARPO	2		
453	Flotillin-like protein 1 OS=Arabidopsis thaliana OX=3702 GN=FLOT1 PE=2 SV=1 FLOT1_ARATH		2	2
454	ABC transporter C family member 14 OS=Arabidopsis thaliana OX=3702 GN=ABCC14 PE=1 S' AB14C_ARATH	2		3
455	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase OS=Arabidopsis thaliana OX=3702 (F26_ARATH	3	2	2
456	ABC transporter G family member 7 OS=Arabidopsis thaliana OX=3702 GN=ABCG7 PE=2 SV=: AB7G_ARATH	3	3	3
457	Cyprosin (Fragment) OS=Cynara cardunculus OX=4265 GN=CYPRO1 PE=1 SV=2 CYPR1_CYNCA	2		2
458	Probable calcium-binding protein CML13 OS=Arabidopsis thaliana OX=3702 GN=CML13 PE: CML13_ARATH	2	2	2

459	Heat shock 70 kDa protein 15 OS=Arabidopsis thaliana OX=3702 GN=HSP70-15 PE=1 SV=1	HSP7P_ARATH			2	2
460	Nucleoside diphosphate kinase B OS=Flaveria bidentis OX=4224 PE=2 SV=1	NDKB_FLABI	2		2	2
461	Prohibitin-7, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=PHB7 PE=1 SV=1	PHB7_ARATH	2		2	2
462	Photosystem I reaction center subunit VI-2, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=PSAH2_ARATH	PSAH2_ARATH	2		2	2
463	40S ribosomal protein S30 OS=Arabidopsis thaliana OX=3702 GN=RPS30A PE=3 SV=3	RS30_ARATH	2		2	2
464	Cytochrome b6-f complex iron-sulfur subunit, chloroplastic OS=Fritillaria agrestis OX=6417 UCR1A_FRIAG	UCR1A_FRIAG	2		2	2
465	Eukaryotic peptide chain release factor subunit 1-1 OS=Arabidopsis thaliana OX=3702 GN=E ERF1X_ARATH	ERF1X_ARATH	2		2	
466	Vacuolar protein-sorting-associated protein 11 homolog OS=Arabidopsis thaliana OX=3702 VPS11_ARATH	VPS11_ARATH	2			2
467	Dynamin-related protein 1A OS=Arabidopsis thaliana OX=3702 GN=DRP1A PE=1 SV=3	DRP1A_ARATH	2		3	2
468	HMG1/2-like protein OS=Ipomoea nil OX=35883 PE=2 SV=1	HMGL_IPONI	2		2	
469	Vacuolar-sorting receptor 2 OS=Arabidopsis thaliana OX=3702 GN=VSR2 PE=2 SV=1	VSR2_ARATH	3		3	2
470	Thioredoxin H4-1 OS=Oryza sativa subsp. japonica OX=39947 GN=Os01g0168200 PE=2 SV=1	TRH41_ORYSJ (+1)	2		2	
471	Cytochrome c1-1, heme protein, mitochondrial OS=Solanum tuberosum OX=4113 GN=CY11 SOLTU	CY11_SOLTU	4		4	5
472	Glucan endo-1,3-beta-glucosidase 5 OS=Arabidopsis thaliana OX=3702 GN=At4g31140 PE=2 SV=1	E135_ARATH	2			2
473	Fructose-1,6-bisphosphatase, cytosolic OS=Oryza coarctata OX=77588 PE=2 SV=1	F16P2_ORYCO	2		3	2
474	Calcium-transporting ATPase 1, endoplasmic reticulum-type OS=Arabidopsis thaliana OX=3702 GN=ECA1_ARATH (+1)	ECA1_ARATH (+1)	2		2	2
475	Phytochrome-associated serine/threonine-protein phosphatase 1 OS=Arabidopsis thaliana OX=3702 GN=FYPP1_ARATH (+1)	FYPP1_ARATH (+1)	2		2	
476	ABC transporter B family member 25, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=AB25B_ARATH	AB25B_ARATH	2		2	2
477	Spermidine synthase 1 OS=Pisum sativum OX=3888 GN=SPDSYN1 PE=2 SV=1	SPD1_PEA	2			
478	Peroxisomal isocitrate dehydrogenase [NADP] OS=Arabidopsis thaliana OX=3702 GN=ICDH F ICDHX_ARATH	ICDH F ICDHX_ARATH			2	3
479	Heat shock protein 90-5, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=HSP90-5 PE=1 SV=1	HS905_ARATH	2			
480	8-hydroxygeraniol oxidoreductase OS=Catharanthus roseus OX=4058 GN=8HGO PE=1 SV=1	8HGO_CATRO	2			
481	Proline--tRNA ligase, cytoplasmic OS=Arabidopsis thaliana OX=3702 GN=At3g62120 PE=1 SV=1	SYPC_ARATH				2
482	Magnesium-chelatase subunit Chl1-1, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=C CHL11_ARATH	CHL11_ARATH	2		2	2
483	Dynamin-related protein 12A OS=Glycine max OX=3847 PE=1 SV=1	SDLCA_SOYBN			3	5
484	Protein NRT1/ PTR FAMILY 8.5 OS=Arabidopsis thaliana OX=3702 GN=NPF8.5 PE=2 SV=1	PTR17_ARATH	2			
485	60S ribosomal protein L15 OS=Quercus suber OX=58331 GN=RPL15 PE=2 SV=1	RL15_QUESU			2	
486	Isocitrate dehydrogenase [NAD] regulatory subunit 3, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=IDH3_ARATH	IDH3_ARATH	2			3
487	Ubiquinol oxidase 1a, mitochondrial OS=Arabidopsis thaliana OX=3702 GN=AOX1A PE=1 SV=1	AOX1A_ARATH	2		2	2
488	Lectin (Fragment) OS=Allium cepa OX=4679 PE=1 SV=2	LEC_ALLCE	2		2	2
489	NADH-ubiquinone oxidoreductase chain 5 OS=Arabidopsis thaliana OX=3702 GN=ND5 PE=2 SV=1	NU5M_ARATH (+1)	2			
490	Serine/threonine-protein phosphatase PP1 isozyme 5 OS=Arabidopsis thaliana OX=3702 GN=PP15_ARATH	PP15_ARATH			2	2
491	Ras-related protein RABG1 OS=Arabidopsis thaliana OX=3702 GN=RABG1 PE=2 SV=1	RABG1_ARATH	2		2	2
492	Probable methyltransferase PMT21 OS=Arabidopsis thaliana OX=3702 GN=ERD3 PE=2 SV=1	PMTL_ARATH	3		3	
493	Vesicle-associated membrane protein 713 OS=Arabidopsis thaliana OX=3702 GN=VAMP713 VA713_ARATH	VA713_ARATH	2			

494	Hypersensitive-induced response protein 4 OS=Arabidopsis thaliana OX=3702 GN=HIR4 PE=: HIR4_ARATH			2
495	D-3-phosphoglycerate dehydrogenase 3, chloroplastic OS=Arabidopsis thaliana OX=3702 GI SERA3_ARATH		2	2
496	50S ribosomal protein L3, chloroplastic OS=Spinacia oleracea OX=3562 GN=RPL3 PE=1 SV=2 RK3_SPIOL	2		
497	40S ribosomal protein S19 OS=Oryza sativa subsp. japonica OX=39947 GN=RPS19A PE=2 SV: RS19_ORYSJ			2
498	Chaperone protein dnaJ A7A, chloroplastic OS=Oryza sativa subsp. japonica OX=39947 GN=I DJA7A_ORYSJ (+2)	3	2	
499	Serine/threonine-protein kinase SAPK1 OS=Oryza sativa subsp. japonica OX=39947 GN=SAPI SAPK1_ORYSJ	4	4	3
500	60S ribosomal protein L7a-1 OS=Oryza sativa subsp. japonica OX=39947 GN=RPL7A-1 PE=2 ; RL7A1_ORYSJ (+1)		2	
501	Probable inactive receptor kinase At3g08680 OS=Arabidopsis thaliana OX=3702 GN=At3g08680 Y3868_ARATH	3	3	
502	Probable pyridoxal 5'-phosphate synthase subunit PDX1.1 OS=Oryza sativa subsp. japonica (PDX11_ORYSJ	3	4	4
503	Vacuolar protein sorting-associated protein 20 homolog 2 OS=Arabidopsis thaliana OX=370 VP202_ARATH	2	2	
504	UDP-glucuronic acid decarboxylase 1 OS=Arabidopsis thaliana OX=3702 GN=UXS1 PE=1 SV= UXS1_ARATH		2	
505	Peroxiredoxin-2C OS=Oryza sativa subsp. japonica OX=39947 GN=PRXIIC PE=1 SV=1 PRX2C_ORYSJ	2	2	2
506	Probable sucrose-phosphate synthase 3 OS=Arabidopsis thaliana OX=3702 GN=SPS3 PE=2 S\ SPSA3_ARATH	2		2
507	Protein TIC 40, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=TIC40 PE=1 SV=1 TIC40_ARATH	2	2	2
508	Zeta-carotene desaturase, chloroplastic/chromoplastic OS=Narcissus pseudonarcissus OX=3 ZDS_NARPS	2	2	2
509	Magnesium transporter MRS2-11, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=MRS MRS2B_ARATH	2		
510	Ureidoglycolate hydrolase OS=Oryza sativa subsp. japonica OX=39947 GN=UAH PE=1 SV=2 UAH_ORYSJ		2	
511	Eukaryotic translation initiation factor 3 subunit A OS=Arabidopsis thaliana OX=3702 GN=TI EIF3A_ARATH		3	
512	25.3 kDa vesicle transport protein OS=Arabidopsis thaliana OX=3702 GN=SEC22 PE=2 SV=1 SEC22_ARATH	2	2	2
513	Protein ILITYHIA OS=Arabidopsis thaliana OX=3702 GN=ILA PE=1 SV=1 ILA_ARATH	2		
514	NADH dehydrogenase [ubiquinone] iron-sulfur protein 5-A OS=Arabidopsis thaliana OX=370 NDS5A_ARATH (+1)	2	2	2
515	Ketol-acid reductoisomerase, chloroplastic OS=Spinacia oleracea OX=3562 GN=AHRI PE=1 S ILV5_SPIOL	3	2	3
516	Probable phospholipid-transporting ATPase 5 OS=Arabidopsis thaliana OX=3702 GN=ALA5 F ALA5_ARATH		2	
517	Pyridoxal 5'-phosphate synthase subunit PDX1.3 OS=Arabidopsis thaliana OX=3702 GN=PD\ PDX13_ARATH	4	2	4
518	Ribulose biphosphate carboxylase small chain, chloroplastic OS=Flaveria trinervia OX=422\ RBS_FLATR	2	2	
519	Protein TIC 214 OS=Calycanthus floridus var. glaucus OX=212734 GN=TIC214 PE=3 SV=1 TI214_CALFG	2		2
520	ATP-dependent zinc metalloprotease FTSH 11, chloroplastic/mitochondrial OS=Arabidopsis FTSHB_ARATH	2		2
521	Thioredoxin reductase 2 OS=Arabidopsis thaliana OX=3702 GN=NTR2 PE=2 SV=2 TRXB2_ARATH		2	
522	Vacuolar-sorting receptor 1 OS=Arabidopsis thaliana OX=3702 GN=VSR1 PE=1 SV=2 VSR1_ARATH	3	2	2
523	Calcium-dependent protein kinase 18 OS=Oryza sativa subsp. japonica OX=39947 GN=CPK1\ CDPKI_ORYSJ	3	4	3
524	Receptor-like cytoplasmic kinase 1 OS=Arabidopsis thaliana OX=3702 GN=CARK1 PE=1 SV=1 CARK1_ARATH		2	2
525	Protein EXPORTIN 1A OS=Arabidopsis thaliana OX=3702 GN=XPO1 PE=1 SV=1 XPO1A_ARATH	2	2	
526	Nucleoside diphosphate kinase 2, chloroplastic OS=Nicotiana tabacum OX=4097 GN=NDPK\ NDK2_TOBAC			2
527	Photosystem I reaction center subunit psaK, chloroplastic OS=Arabidopsis thaliana OX=370 PSAK_ARATH	2	2	
528	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta OS=Solanum tuberosum PFPB_SOLTU			2

529	ATP synthase subunit a, chloroplastic OS=Cicer arietinum OX=3827 GN=atpl PE=3 SV=1	ATPI_CICAR (+2)		2	
530	Delta-aminolevulinic acid dehydratase, chloroplastic OS=Oryza sativa subsp. japonica OX=39947 GN=HEM2 PE=1 SV=2	HEM2_ORYSJ	2		2
531	Calreticulin OS=Oryza sativa subsp. japonica OX=39947 GN=Os07g0246200 PE=1 SV=2	CALR_ORYSJ	2		
532	ATP-citrate synthase beta chain protein 1 OS=Oryza sativa subsp. japonica OX=39947 GN=AC ACLB1 PE=1 SV=2	ACLB1_ORYSJ		4	
533	ABC transporter B family member 26, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=AB26B PE=1 SV=2	AB26B_ARATH	3		
534	Coatomer subunit gamma OS=Arabidopsis thaliana OX=3702 GN=At4g34450 PE=1 SV=2	COPG_ARATH	3	2	3
535	Proteasome subunit alpha type-1 OS=Oryza sativa subsp. japonica OX=39947 GN=PAF1 PE=2 SV=2	PAF1_ORYSJ	2		
536	Clathrin light chain 2 OS=Oryza sativa subsp. japonica OX=39947 GN=Os06g0731800 PE=2 SV=2	CLC2_ORYSJ	2		
537	Thioredoxin M-type, chloroplastic OS=Pisum sativum OX=3888 PE=2 SV=1	TRXM_PEA			2
538	Serine-glyoxylate aminotransferase OS=Arabidopsis thaliana OX=3702 GN=AGT1 PE=1 SV=2	SGAT_ARATH	2		2
539	Probable inactive ATP-dependent zinc metalloprotease FTSI2, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=FTSI2 PE=1 SV=2	FTSI2_ARATH			2
540	Histidine-tRNA ligase, cytoplasmic OS=Oryza sativa subsp. japonica OX=39947 GN=Os05g0159500 PE=1 SV=2	SYHC_ORYSJ		2	
541	T-complex protein 1 subunit zeta 2 OS=Arabidopsis thaliana OX=3702 GN=CCT6B PE=1 SV=1	TCPZB_ARATH		2	2
542	(S)-2-hydroxy-acid oxidase GLO1 OS=Arabidopsis thaliana OX=3702 GN=GLO1 PE=1 SV=1	GLO1_ARATH	3	3	3
543	Phosphoenolpyruvate carboxykinase (ATP) OS=Cucumis sativus OX=3659 GN=PCK PE=2 SV=2	PCKA_CUCSA	2		
544	Elongation factor 1-delta OS=Pimpinella brachycarpa OX=45043 PE=2 SV=3	EF1D_PIMBR	2	2	
545	Sedoheptulose-1,7-bisphosphatase, chloroplastic OS=Triticum aestivum OX=4565 PE=2 SV=2	S17P_WHEAT		2	
546	DNA-directed RNA polymerase II subunit RPB2 OS=Solanum lycopersicum OX=4081 GN=RPE RPB2 PE=1 SV=2	RPB2_SOLLC			2
547	Transmembrane 9 superfamily member 4 OS=Arabidopsis thaliana OX=3702 GN=TMN4 PE=2 SV=2	TMN4_ARATH			2
548	Dynamamin-related protein 1B OS=Arabidopsis thaliana OX=3702 GN=DRP1B PE=1 SV=1	DRP1B_ARATH	2		3
549	UDP-glucuronic acid decarboxylase 6 OS=Arabidopsis thaliana OX=3702 GN=UXS6 PE=2 SV=2	UXS6_ARATH (+1)	2	2	
550	Probable receptor-like protein kinase At2g47060 OS=Arabidopsis thaliana OX=3702 GN=At2g47060 PE=1 SV=2	Y2706_ARATH		2	2
551	Pheophorbide a oxygenase, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=PAO PE=1 SV=2	PAO_ARATH	2		
552	Long chain acyl-CoA synthetase 7, peroxisomal OS=Arabidopsis thaliana OX=3702 GN=LACS7 PE=1 SV=2	LACS7_ARATH		2	
553	ABC transporter B family member 28 OS=Arabidopsis thaliana OX=3702 GN=ABC28 PE=2 SV=2	AB28B_ARATH	2		
554	DEAD-box ATP-dependent RNA helicase 12 OS=Arabidopsis thaliana OX=3702 GN=RH12 PE=1 SV=2	RH12_ARATH	2		2
555	Probable histone H2A.7 OS=Arabidopsis thaliana OX=3702 GN=At5g59870 PE=1 SV=1	H2A7_ARATH	2		2
556	ABC transporter B family member 18 OS=Arabidopsis thaliana OX=3702 GN=ABC18 PE=3 SV=2	AB18B_ARATH	2		
557	Guanine nucleotide-binding protein subunit beta-like protein OS=Medicago sativa OX=3879 GN=GBLP PE=1 SV=2	GBLP_MEDSA			3
558	Thiamine thiazole synthase 1, chloroplastic OS=Vitis vinifera OX=29760 GN=THI1-1 PE=3 SV=2	THI41_VITVI		2	2
559	UDP-glucose 6-dehydrogenase 4 OS=Arabidopsis thaliana OX=3702 GN=UGD4 PE=1 SV=1	UGDH4_ARATH	2	3	
560	CDPK-related kinase 5 OS=Arabidopsis thaliana OX=3702 GN=CRK5 PE=2 SV=1	CAMK5_ARATH	2		
561	Probable methyltransferase PMT2 OS=Arabidopsis thaliana OX=3702 GN=At1g26850 PE=2 SV=2	PMT2_ARATH	2	2	
562	L-ascorbate peroxidase T, chloroplastic OS=Arabidopsis thaliana OX=3702 GN=APXT PE=2 SV=2	APXT_ARATH	2		
563	Exocyst complex component SEC8 OS=Arabidopsis thaliana OX=3702 GN=SEC8 PE=1 SV=1	SEC8_ARATH	2	2	

564	Eukaryotic translation initiation factor 3 subunit A	OS=Zea mays OX=4577 GN=TIF3A1 PE=2	!	EIF3A_MAIZE				2
565	Phospholipid-transporting ATPase 1	OS=Arabidopsis thaliana OX=3702 GN=ALA1 PE=2 SV=1		ALA1_ARATH			2	
566	Histone H3-like 5	OS=Arabidopsis thaliana OX=3702 GN=At5g65350 PE=2 SV=3		H3L5_ARATH			3	
567	DNA damage-binding protein 1a	OS=Arabidopsis thaliana OX=3702 GN=DDB1A PE=1 SV=1		DDB1A_ARATH				2
568	NAD(P)H-quinone oxidoreductase subunit H, chloroplastic	OS=Dioscorea elephantipes OX=:		NDHH_DIOEL				2
569	Triosephosphate isomerase, chloroplastic	OS=Frangaria ananassa OX=3747 GN=TPI PE=2 SV=1		TPIC_FRAAN				2
570	Serine/threonine-protein kinase VPS15	OS=Arabidopsis thaliana OX=3702 GN=VPS15 PE=1	!	VPS15_ARATH				2
571	Serine/threonine-protein kinase STY13	OS=Arabidopsis thaliana OX=3702 GN=STY13 PE=1 SV=1		STY13_ARATH			2	2
572	ABC transporter B family member 11	OS=Arabidopsis thaliana OX=3702 GN=ABCB11 PE=2 SV=1		AB11B_ARATH			2	
573	Histone H3.3b	OS=Lilium longiflorum OX=4690 GN=soH3-1 PE=2 SV=3		H33B_LILLO				2
574	Calcium-dependent protein kinase 13	OS=Oryza sativa subsp. japonica OX=39947 GN=CPK1	:	CDPKD_ORYSJ				2
575	Proteasome subunit alpha type-6	OS=Oryza sativa subsp. japonica OX=39947 GN=PAA1 PE=2	:	PSA6_ORYSJ				2
576	Mannosyl-oligosaccharide 1,2-alpha-mannosidase MNS3	OS=Arabidopsis thaliana OX=3702 GN=MNS3		MNS3_ARATH				2
577	DEAD-box ATP-dependent RNA helicase 30	OS=Arabidopsis thaliana OX=3702 GN=RH30 PE=:		RH30_ARATH				2
578	40S ribosomal protein S29	OS=Triticum aestivum OX=4565 GN=RPS29 PE=1 SV=1		RS29_WHEAT				2
579	Hypersensitive-induced response protein 2	OS=Arabidopsis thaliana OX=3702 GN=HIR2 PE=:		HIR2_ARATH				3
580	Dynein-1-alpha heavy chain, flagellar inner arm I1 complex	OS=Chlamydomonas reinhardtii OX=:		DYH1A_CHLRE				2
581	Importin subunit alpha-1a	OS=Oryza sativa subsp. japonica OX=39947 GN=Os01g0253300	F	IMA1A_ORYSJ				2
582	Phosphoglucosyltransferase, cytoplasmic	OS=Bromus inermis OX=15371 GN=PGM1 PE=2 SV=1		PGMC_BROIN			2	6
583	Probable aldo-keto reductase 1	OS=Glycine max OX=3847 GN=AKR1 PE=2 SV=1		AKR1_SOYBN				2
584	Acetyl-coenzyme A synthetase, chloroplastic/glyoxysomal	OS=Arabidopsis thaliana OX=3702 GN=ACS	:	ACS_ARATH				2
585	Lysine--tRNA ligase	OS=Solanum lycopersicum OX=4081 GN=LYSRS PE=2 SV=1		SYK_SOLLC				2
586	ARF guanine-nucleotide exchange factor GNOM	OS=Arabidopsis thaliana OX=3702 GN=GN P		GNOM_ARATH				2
587	Preprotein translocase subunit SECY, chloroplastic	OS=Zea mays OX=4577 GN=SECY PE=2 SV=1		SECY_MAIZE				2
588	Proteasome subunit alpha type-3	OS=Spinacia oleracea OX=3562 GN=PAG1 PE=2 SV=1		PSA3_SPIOL			3	3
589	50S ribosomal protein L22, chloroplastic	OS=Platanus occidentalis OX=4403 GN=rpL22 PE=:		RK22_PLAOC			2	2
590	T-complex protein 1 subunit gamma	OS=Arabidopsis thaliana OX=3702 GN=CCT3 PE=1 SV=1		TCPG_ARATH				2
591	Alcohol dehydrogenase 2	OS=Solanum lycopersicum OX=4081 GN=ADH2 PE=2 SV=2		ADH2_SOLLC				2
592	Carotenoid 9,10(9',10')-cleavage dioxygenase 1	OS=Arabidopsis thaliana OX=3702 GN=CCD1		CCD1_ARATH				2
593	Ras-related protein RABC2a	OS=Arabidopsis thaliana OX=3702 GN=RABC2A PE=1 SV=1		RAC2A_ARATH			3	3
594	Xylose isomerase	OS=Arabidopsis thaliana OX=3702 GN=XYLA PE=2 SV=2		XYLA_ARATH				2
595	Probable methyltransferase PMT14	OS=Arabidopsis thaliana OX=3702 GN=At4g18030 PE=2		PMTE_ARATH				2
596	60S ribosomal protein L6	OS=Mesembryanthemum crystallinum OX=3544 GN=RPL6 PE=2	S	RL6_MESCR				2
597	Probable methyltransferase PMT9	OS=Arabidopsis thaliana OX=3702 GN=At5g14430 PE=2	S	PMT9_ARATH				2
598	Probable protein disulfide-isomerase A6	OS=Medicago sativa OX=3879 PE=2 SV=1		PDIA6_MEDSA				2

599	Ubiquitin-activating enzyme E1 3 OS=Triticum aestivum OX=4565 GN=UBA3 PE=1 SV=1	UBE13_WHEAT			3
600	Uncharacterized aarF domain-containing protein kinase At5g05200, chloroplastic OS=Arabi Y5520_ARATH			2	
601	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha OS=Ricinus com PFFA_RICCO		2		
602	Photosystem II D2 protein OS=Nephroselmis olivacea OX=31312 GN=psbD PE=3 SV=1	PSBD_NEPOL		5	
603	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Arabidopsis thaliana OST48_ARATH		2		2
604	Probable leucine-rich repeat receptor-like protein kinase At1g68400 OS=Arabidopsis thaliana Y1680_ARATH		2	2	
605	Vacuolar-sorting receptor 1 OS=Pisum sativum OX=3888 GN=BP80 PE=1 SV=1	VSR1_PEA		2	
606	Cytochrome b-c1 complex subunit Rieske, mitochondrial OS=Zea mays OX=4577 PE=2 SV=1	UCRI_MAIZE	2	2	
607	SPX domain-containing membrane protein At4g11810 OS=Arabidopsis thaliana OX=3702 GN=SPXM2_ARATH		2		2
608	Probable protein phosphatase 2C 41 OS=Oryza sativa subsp. japonica OX=39947 GN=Os04g0312000 P2C41_ORYSJ		2		
609	DnaJ protein homolog 2 OS=Allium porrum OX=4681 GN=LDJ2 PE=2 SV=1	DNJH2_ALLPO	2		
610	Proteasome subunit alpha type-3 OS=Arabidopsis thaliana OX=3702 GN=PAG1 PE=1 SV=2	PSA3_ARATH	3		
611	Mannose-specific lectin OS=Allium sativum OX=4682 GN=LECASAL PE=1 SV=3	ASAL_ALLSA			2
612	Disease resistance protein LAZ5 OS=Arabidopsis thaliana OX=3702 GN=LAZ5 PE=1 SV=1	LAZ5_ARATH	2		

diplanta_20190430 database (7108828 entries)

Table S2 Lipid profiles of active and inactive GC-VLNs

Mass	Compound F _r	Compound N _r	% total signal					% total signal	
			active1	active2	active3	active4	active5	average of active GC-ELNs	
			sample01	sample02	sample03	sample04	sample05	ave	stdev
926.6	C49H80O15	DGDG(34:6)	0	0	0.00169946	0.00136989	0	0.00061387	0.00084861
928.6	C49H82O15	DGDG(34:5)	0.00150404	0	0.00509838	0.00136989	0.00148997	0.001892456	0.00190035
930.6	C49H84O15	DGDG(34:4)	0.01102962	0.01532016	0.01487029	0.0242014	0.02036286	0.017156867	0.005149
932.6	C49H86O15	DGDG(34:3)	1.76975288	1.96528941	2.16086548	2.14479214	1.75170258	1.958480498	0.19627359
934.6	C49H88O15	DGDG(34:2)	0.13486219	0.18288442	0.20520999	0.17443274	0.1162173	0.162721329	0.03635846
936.6	C49H90O15	DGDG(34:1)	0.04762791	0.03638538	0.0565071	0.05662215	0.02930265	0.045289038	0.01219215
954.6	C51H84O15	DGDG(36:6)	2.6062494	2.55583374	2.74654244	2.66283913	2.30274143	2.574841227	0.16778781
956.6	C51H86O15	DGDG(36:5)	0.29328766	0.30831824	0.34796477	0.28722041	0.27266366	0.301890947	0.0287558
958.6	C51H88O15	DGDG(36:4)	0.1759726	0.17283057	0.1928889	0.17488937	0.14502329	0.172320945	0.01723654
960.6	C51H90O15	DGDG(36:3)	0.27824727	0.25852772	0.36156046	0.29680964	0.25031418	0.289091853	0.04434733
962.6	C51H92O15	DGDG(36:2)	0.02005386	0.01675643	0.03526383	0.02968096	0.01390634	0.023132284	0.00901812
964.7	C51H94O15	DGDG(36:1)	0	0.00909635	0.0012746	0.00593619	0.00297993	0.003857413	0.00367724
982.6	C53H88O15	DGDG(38:6)	0.00451212	0	0	0	0	0.000902424	0.00201788
984.6	C53H90O15	DGDG(38:5)	0	0	0.00679785	0	0	0.001359569	0.00304009
986.6	C53H92O15	DGDG(38:4)	0.00350942	0	0	0.00410967	0	0.001523819	0.00209734
988.7	C53H94O15	DGDG(38:3)	0.00501346	0.00861759	0.00169946	0	0.00198662	0.003463427	0.00340058
Total DGDG		Total DGDG	5.35162242	5.52986	6.13824301	5.8642736	4.9086908	5.558537967	0.47314639
764.5	C43H70O10	MGDG(34:6)	0.0140377	0.00622382	0.00339892	0.00228315	0.00595986	0.00638069	0.00459653
766.5	C43H72O10	MGDG(34:5)	0.01203231	0.0043088	0.00509838	0.00365304	0.00794648	0.006607804	0.00344644
768.5	C43H74O10	MGDG(34:4)	0.04512118	0.05697185	0.04588546	0.04246661	0.05910196	0.049909412	0.00756465
770.5	C43H76O10	MGDG(34:3)	0.43366466	0.35140619	0.38365347	0.3867658	0.4613926	0.403376543	0.04372947
772.6	C43H78O10	MGDG(34:2)	0.0355956	0.02633153	0.01784435	0.04292324	0.0387391	0.032286762	0.01012131
774.6	C43H80O10	MGDG(34:1)	0.00451212	0.00239378	0.00084973	0	0.01142307	0.003835738	0.0045753
792.5	C45H74O10	MGDG(36:6)	8.3529328	7.65242043	6.66401396	6.95310836	8.40290784	7.60507668	0.791948
794.5	C45H76O10	MGDG(36:5)	0.96333716	0.84236948	0.74755069	0.80937706	1.03428427	0.879383732	0.11693299
796.6	C45H78O10	MGDG(36:4)	0.44569697	0.34039483	0.29868038	0.3520619	0.39136423	0.365639662	0.05562402
798.6	C45H80O10	MGDG(36:3)	0.09525582	0.09766603	0.07265199	0.07123431	0.12267381	0.091896392	0.02114883
800.6	C45H82O10	MGDG(36:2)	0.00601616	0.00191502	0.00424865	0.01643869	0.00496655	0.006717014	0.00563955
802.6	C45H84O10	MGDG(36:1)	0.01654443	0.00766008	0.01274596	0.0091326	0.01887289	0.012991195	0.00475893
820.6	C47H78O10	MGDG(38:6)	0.03960637	0.02393775	0.02251787	0.03242075	0.04022906	0.031742359	0.00837153
822.6	C47H80O10	MGDG(38:5)	0.02707271	0.02154398	0.01402056	0.01461217	0.0198662	0.019423123	0.00537456
824.6	C47H82O10	MGDG(38:4)	0.00350942	0.00813884	0.00594812	0.00593619	0.00645652	0.005997817	0.00165776

826.6	C47H84O10	MGDG(38:3)	0	0.00574506	0.00042487	0	0	0.001233985	0.00252847
Total MGDG		Total MGDG	10.4949354	9.44942745	8.29953335	8.74241387	10.6261845	9.522498908	1.03359462
738.5	C38H73O10F	PG(32:1)	0.18108633	0.09785753	0.17249536	0.21224173	0.17382929	0.167502046	0.04213519
740.5	C38H75O10F	PG(32:0)	0.19933534	0.20107711	0.24625199	0.28256278	0.15575104	0.216995653	0.04865997
760.5	C40H71O10F	PG(34:4)	0.61063995	0.44773171	0.50440021	0.65078939	0.4700344	0.536719131	0.08928387
762.5	C40H73O10F	PG(34:3)	0.70469254	0.5040333	0.55793326	0.75691025	0.63273861	0.631261591	0.10337547
764.5	C40H75O10F	PG(34:2)	1.35323427	0.951765	1.39185908	1.76953343	1.14727331	1.32273302	0.30567251
766.5	C40H77O10F	PG(34:1)	0.16564486	0.11796524	0.15584063	0.21352029	0.14323533	0.159241271	0.03520896
768.5	C40H79O10F	PG(34:0)	0.02667163	0.00804308	0.02260284	0.03324268	0.03615649	0.025343345	0.0110442
784.5	C42H71O10F	PG(36:6)	0.00421131	0.00402154	0.00237925	0.00767139	0.0041719	0.004491078	0.00193486
786.5	C42H73O10F	PG(36:5)	0.01684524	0.00268103	0.01427548	0.0217356	0.01946888	0.015001245	0.00743347
788.5	C42H75O10F	PG(36:4)	0.03228671	0.01608617	0.03330945	0.03452124	0.01807825	0.026856364	0.00898518
790.5	C42H77O10F	PG(36:3)	0.00842262	0.00134051	0	0.00127856	0.01529698	0.005267735	0.006512
792.5	C42H79O10F	PG(36:2)	0.0280754	0.00268103	0.02260284	0.01278565	0.01668761	0.016566505	0.00969546
794.6	C42H81O10F	PG(36:1)	0.01263393	0.00268103	0.00832736	0.0178999	0.00139063	0.008586572	0.00688918
Total PG		Total PG	3.34378012	2.35796428	3.13227775	4.01469289	2.83411273	3.136565556	0.61476856
500.3	C22H43O9P	LPG(16:1)	0	0.0093836	0.00356887	0	0.00278127	0.003146747	0.00384103
502.3	C22H45O9P	LPG(16:0)	0	0	0	0.00894995	0	0.00178999	0.00400254
524.3	C24H43O9P	LPG(18:3)	0.02526786	0	0	0	0	0.005053572	0.01130013
526.3	C24H45O9P	LPG(18:2)	0	0	0	0	0	0	0
528.3	C24H47O9P	LPG(18:1)	0.00701885	0.00670257	0	0	0.00834381	0.004413045	0.00407532
Total LysoPG		Total LysoPG	0.03228671	0.01608617	0.00356887	0.00894995	0.01112507	0.014403355	0.01096037
494.3	C24H48O7P	LPC(16:1)	0	0	0.00122463	0	0	0.000244926	0.00054767
496.3	C24H50O7P	LPC(16:0)	0.00650284	0.01310961	0.03122802	0.01250377	0.00787355	0.014243558	0.00991565
518.3	C26H48O7P	LPC(18:3)	0.0057803	0.01793947	0.02449256	0.01052949	0.00143155	0.012034676	0.00927193
520.3	C26H50O7P	LPC(18:2)	0.03179168	0.03449897	0.07225305	0.03553704	0.02863108	0.040542365	0.01792761
522.3	C26H52O7P	LPC(18:1)	0	0.00068998	0.00673545	0.00460665	0	0.002406417	0.00308664
524.4	C26H54O7P	LPC(18:0)	0.00722538	0.00275992	0	0	0.00143155	0.002283371	0.00299181
Total LysoPC		Total LysoPC	0.05130021	0.06899795	0.13593371	0.06317696	0.03936774	0.071755312	0.03764115
452.3	C21H42O7P	LPE(16:1)	0	0	0	0	0	0	0
454.3	C21H44O7P	LPE(16:0)	0.08185006	0.10333252	0.14225444	0.14404513	0.07696123	0.109688676	0.0321223
476.3	C23H42O7P	LPE(18:3)	0.00832374	0.01059821	0.01528353	0.03032529	0	0.012906153	0.01120237
478.3	C23H44O7P	LPE(18:2)	0.10959585	0.0331194	0.20691554	0.14530868	0.09895016	0.118777925	0.06381018
480.3	C23H46O7P	LPE(18:1)	0	0.00927343	0	0	0	0.001854686	0.0041472
Total LysoPE		Total LysoPE	0.19976964	0.15632356	0.36445352	0.3196791	0.17591139	0.243227441	0.09288828
734.6	C40H80O8P	PC(32:0)	0.080755	0.08642318	0.08141492	0.08496557	0.09517163	0.085746061	0.00577881
754.5	C42H76O8P	PC(34:4)	0.10442457	0.09971905	0.09203425	0.08877	0.09793023	0.096575622	0.00622242
756.5	C42H78O8P	PC(34:3)	5.44260877	5.37951042	4.7834214	5.25518392	4.89099439	5.150343779	0.29615104

758.6	C42H80O8P1	PC(34:2)	17.6909151	17.8523694	16.0292994	16.8637634	16.3474522	16.95675989	0.8033037
760.6	C42H82O8P1	PC(34:1)	0.80267689	0.92605759	0.84187745	0.98090848	0.90688912	0.891681905	0.07031484
778.5	C44H76O8P1	PC(36:6)	1.03589177	0.99719051	0.89910387	0.9739337	0.88964788	0.959153547	0.0632278
780.5	C44H78O8P1	PC(36:5)	4.23058755	4.16493238	3.6701609	3.85959272	3.88065784	3.961186278	0.23215909
782.6	C44H80O8P1	PC(36:4)	10.0769713	9.73856256	8.82407917	9.65627363	9.57854217	9.574885771	0.46076781
784.6	C44H82O8P1	PC(36:3)	1.47029799	1.44792063	1.29791898	1.39242083	1.52826333	1.427364353	0.08721183
786.6	C44H84O8P1	PC(36:2)	1.63598498	1.681928	1.52446484	1.6460494	1.47309137	1.592303719	0.0889422
788.6	C44H86O8P1	PC(36:1)	0.41282515	0.32907287	0.37698647	0.33542378	0.34413511	0.359688675	0.03496686
806.6	C46H80O8P1	PC(38:6)	0.05569311	0.04919473	0.05427661	0.05960271	0.05379266	0.054511965	0.00374688
808.6	C46H82O8P1	PC(38:5)	0.19492587	0.19411975	0.21710645	0.18261257	0.18344677	0.194442282	0.01391802
810.6	C46H84O8P1	PC(38:4)	0.32998165	0.38026198	0.28436225	0.31830385	0.30482509	0.323546965	0.03595636
812.6	C46H86O8P1	PC(38:3)	0.40516734	0.30314592	0.32447974	0.37410214	0.34206616	0.349792261	0.04041555
814.6	C46H88O8P1	PC(38:2)	0.33972795	0.3257489	0.34099871	0.31069499	0.32275597	0.327985306	0.01263468
836.6	C48H86O8P1	PC(40:5)	0.04733914	0.04520597	0.03539779	0.053262	0.02482738	0.041206456	0.01119103
838.6	C48H88O8P1	PC(40:4)	0.02923888	0.01595505	0.01533904	0.01902214	0.01931019	0.01977306	0.00558161
840.6	C48H90O8P1	PC(40:3)	0.05847776	0.06514978	0.05191676	0.06974786	0.05517196	0.060092824	0.00728807
842.7	C48H92O8P1	PC(40:2)	0.14897906	0.16088007	0.16400976	0.14964085	0.1379299	0.15228793	0.01043234
Total PC	Total PC		44.5934698	44.2433487	39.9086488	42.6742746	41.4769014	42.57932865	1.94824403
686.5	C37H68O8P1	PE(32:3)	0.01095097	0.012549	0.01299254	0.01396392	0.01518789	0.013128865	0.0015839
688.5	C37H70O8P1	PE(32:2)	0.06789601	0.10039203	0.10579639	0.06981959	0.10848496	0.090477796	0.01996189
690.5	C37H72O8P1	PE(32:1)	0.05475485	0.06692802	0.06310662	0.0658299	0.06509098	0.063142072	0.00489139
692.5	C37H74O8P1	PE(32:0)	0.02847252	0.02091501	0.02969723	0.0219433	0.03688489	0.027582589	0.0064818
712.5	C39H70O8P1	PE(34:4)	0.05694504	0.06901952	0.05753839	0.06383506	0.07376977	0.064221555	0.00727926
714.5	C39H72O8P1	PE(34:3)	3.12869187	3.53149864	3.54232305	3.32640495	3.58976739	3.42373718	0.19349836
716.5	C39H74O8P1	PE(34:2)	17.8927884	20.3722609	20.3008427	19.9434684	21.1599918	19.93387044	1.2243709
718.5	C39H76O8P1	PE(34:1)	0.08541756	0.0104575	0.05753839	0	0.06726068	0.044134825	0.03708359
736.5	C41H70O8P1	PE(36:6)	0.21901938	0.22797356	0.23200963	0.20945878	0.20612143	0.218916556	0.01125426
738.5	C41H72O8P1	PE(36:5)	1.2046066	1.34901784	1.2936857	1.30263414	1.44718939	1.319426736	0.08849744
740.5	C41H74O8P1	PE(36:4)	3.67624033	4.23842581	4.2179351	4.07447203	4.58999874	4.159414401	0.33005406
742.5	C41H76O8P1	PE(36:3)	0.4248976	0.61699265	0.54011842	0.5605516	0.60317639	0.549147333	0.07611127
744.5	C41H78O8P1	PE(36:2)	0.84103443	0.90143673	0.90390952	0.84182482	0.94815857	0.887272813	0.04579296
746.6	C41H80O8P1	PE(36:1)	0.15659886	0.14535929	0.16797497	0.17255414	0.17466079	0.163429609	0.0122806
764.5	C43H74O8P1	PE(38:6)	0.00657058	0.0146405	0.03155331	0.01196907	0.02386669	0.017720032	0.00994998
766.5	C43H76O8P1	PE(38:5)	0.0350431	0.05647051	0.05011408	0.05585568	0.05858188	0.05121305	0.00956778
768.5	C43H78O8P1	PE(38:4)	0.18507138	0.1809148	0.17725536	0.14861599	0.18984868	0.176341242	0.01619497
770.6	C43H80O8P1	PE(38:3)	0.10293911	0.11503253	0.12806932	0.12368042	0.10631526	0.115207328	0.01080316
798.6	C45H84O8P1	PE(40:3)	0.05037446	0.06274502	0.06867485	0.06184021	0.07810917	0.064348742	0.01015148
800.6	C45H86O8P1	PE(40:2)	0.55521413	0.6075809	0.73036632	0.61939954	0.75830988	0.654174156	0.08634638

824.6	C47H86O8PI PE(42:4)	0	0.0062745	0.00185608	0.00598454	0	0.002823023	0.00311375
826.6	C47H88O8PI PE(42:3)	0.04380388	0.07111102	0.06867485	0.05585568	0.05641218	0.05917152	0.01104127
828.6	C47H90O8PI PE(42:2)	0.73371493	0.85333221	0.81481783	0.762031	0.8592009	0.804619373	0.0554466
Total PE	Total PE	29.561046	33.6313284	33.5968507	32.5119927	35.2163883	32.90352124	2.10268866
822.5	C41H73O13F PI(32:3)	0.00268065	0.00426642	0.00151447	0.00651081	0.00531113	0.004056698	0.00199979
824.5	C41H75O13F PI(32:2)	0	0.00170657	0.00151447	0.00325541	0.00088519	0.001472328	0.0011988
826.5	C41H77O13F PI(32:1)	0	0	0.00454342	0	0.00177038	0.00126276	0.00198772
828.5	C41H79O13F PI(32:0)	0.00134032	0.00127993	0.02461021	0.00366233	0.00398335	0.006975228	0.00993866
848.5	C43H75O13F PI(34:4)	0.00089355	0	0.00530066	0	0	0.001238842	0.00230336
850.5	C43H77O13F PI(34:3)	0.0352952	0.01066606	0.65614612	0.08830291	0.02611305	0.163304666	0.27704894
852.5	C43H79O13F PI(34:2)	0.10097108	0.04266424	1.95140051	0.28077883	0.09648549	0.49446003	0.81940099
854.5	C43H81O13F PI(34:1)	0.00089355	0	0.01287303	0.00895237	0.00265556	0.005074903	0.00558876
872.5	C45H75O13F PI(36:6)	0.00268065	0.00170657	0.00757237	0.00081385	0.00088519	0.002731726	0.00280951
874.5	C45H77O13F PI(36:5)	0	0.00085328	0.01968817	0.00244156	0	0.004596602	0.00849514
876.5	C45H79O13F PI(36:4)	0.00446775	0.00085328	0.03559015	0.00732467	0.00354075	0.01035532	0.01429486
878.5	C45H81O13F PI(36:3)	0	0.00085328	0.01287303	0.00244156	0.00088519	0.003410612	0.00536252
880.6	C45H83O13F PI(36:2)	0.00446775	0	0.03104673	0.00488311	0.00354075	0.008787668	0.01259093
882.6	C45H85O13F PI(36:1)	0.0017871	0	0.00984408	0.0016277	0.00088519	0.002828815	0.00398503
Total PI	Total PI	0.15547759	0.06484964	2.77451745	0.4109951	0.14694121	0.710556198	1.16107536
756.5	C40H70O10F PS(34:4)	0	0	0	0.00357328	0	0.000714657	0.00159802
758.5	C40H72O10F PS(34:3)	0.04413603	0.02903474	0.05070188	0.05806586	0.03012031	0.042411762	0.01271588
760.5	C40H74O10F PS(34:2)	0.31483701	0.1938771	0.23688582	0.22958346	0.17586374	0.230209428	0.05357305
762.5	C40H76O10F PS(34:1)	0	0	0.00498707	0.00893321	0.00582974	0.003950003	0.00389379
780.5	C42H70O10F PS(36:6)	0.0019616	0	0.00166236	0.00178664	0	0.00108212	0.00099354
782.5	C42H72O10F PS(36:5)	0.02157761	0.00936604	0.01329885	0.01071985	0.00971623	0.012935718	0.00507031
784.5	C42H74O10F PS(36:4)	0.04904003	0.03371776	0.03324713	0.03751948	0.04080816	0.038866512	0.00646475
786.5	C42H76O10F PS(36:3)	0.01765441	0.00749283	0.00831178	0.00893321	0.00388649	0.009255746	0.005086
788.5	C42H78O10F PS(36:2)	0.03530882	0.0206053	0.03324713	0.03573283	0.0213757	0.029253958	0.00760672
790.6	C42H80O10F PS(36:1)	0.0019616	0.00187321	0	0.00178664	0.00388649	0.001901589	0.001376
808.5	C44H74O10F PS(38:6)	0.0019616	0	0	0	0.00194325	0.000780969	0.00106941
810.5	C44H76O10F PS(38:5)	0	0	0	0	0	0	0
812.5	C44H78O10F PS(38:4)	0.00784641	0	0.00332471	0	0	0.002234224	0.00345185
814.6	C44H80O10F PS(38:3)	0.0058848	0	0.00332471	0.00893321	0.00194325	0.004017194	0.00348475
816.6	C44H82O10F PS(38:2)	0.06375204	0.02341511	0.04239009	0.04019944	0.0340068	0.040752697	0.01481601
818.6	C44H84O10F PS(38:1)	0	0	0	0	0.00194325	0.000388649	0.00086905
840.6	C46H82O10F PS(40:4)	0	0	0.00166236	0	0	0.000332471	0.00074343
842.6	C46H84O10F PS(40:3)	0.08434886	0.05432305	0.0881049	0.10005194	0.05635413	0.076636575	0.02030118
844.6	C46H86O10F PS(40:2)	0.85035417	0.4299014	0.71398217	0.68875038	0.46735061	0.630067748	0.17716858

		% total signal					% total signal			
Compound F	Compound N	inactive1 sample06	inactive2 sample07	inactive3 sample08	inactive4 sample09	inactive5 sample10	average of inactive ave	GC-EL stdev	active/inactive	
C49H80O15	DGDG(34:6)	0.00548318	0.00277711	0.00403365	0.01099896	0.00155766	0.00497011	0.00367224	0.12351241	
C49H82O15	DGDG(34:5)	0	0.00971987	0.00230495	0.00289446	0.00207687	0.00339923	0.00369818	0.55673072	
C49H84O15	DGDG(34:4)	0.0274159	0.01527408	0.02938805	0.02605018	0.01557655	0.02274095	0.00678367	0.75444806	
C49H86O15	DGDG(34:3)	4.43150532	3.56858063	3.40670908	3.51503707	3.70670048	3.72570652	0.40906684	0.52566687	
C49H88O15	DGDG(34:2)	0.15791556	0.22077989	0.21666485	0.21766369	0.22014862	0.20663452	0.02728786	0.78748375	
C49H90O15	DGDG(34:1)	0.08553759	0.05693066	0.04379396	0.05383703	0.06645996	0.06131184	0.01577446	0.73866707	
C51H84O15	DGDG(36:6)	6.1669315	5.69202496	4.74847533	5.06097029	4.99410262	5.33250094	0.58199229	0.48285809	
C51H86O15	DGDG(36:5)	0.19191127	0.1763462	0.25757763	0.20550694	0.26687828	0.21964407	0.04035374	1.37445529	
C51H88O15	DGDG(36:4)	0.29280176	0.22008561	0.1809382	0.21997926	0.15940006	0.21464098	0.05087899	0.80283338	
C51H90O15	DGDG(36:3)	0.2785455	0.27215634	0.22415593	0.29812979	0.22482159	0.25956183	0.03341763	1.11376875	
C51H92O15	DGDG(36:2)	0.01425627	0.05901349	0.02881182	0	0.02388405	0.02519312	0.02186855	0.91819829	
C51H94O15	DGDG(36:1)	0.00328991	0	0	0.00405225	0.01038437	0.00354531	0.00424951	1.08803414	
C53H88O15	DGDG(38:6)	0	0	0	0.02084014	0	0.00416803	0.00931999	0.21651091	
C53H90O15	DGDG(38:5)	0.02193272	0	0	0.01215675	0	0.00681789	0.00995505	0.19941195	
C53H92O15	DGDG(38:4)	0.00328991	0.00347138	0.00460989	0.00521004	0	0.00331624	0.00201756	0.45950173	
C53H94O15	DGDG(38:3)	0	0.00694276	0.00864354	0.00231557	0	0.00358038	0.0040056	0.96733623	
	Total DGDG	11.6808164	10.304103	9.15610688	9.65564243	9.69199112	10.097732	0.97409853	0.55047391	
C43H70O10	MGDG(34:6)	0.0153529	0.00208283	0.01555838	0.01215675	0.01038437	0.01110705	0.00549778	0.57447231	
C43H72O10	MGDG(34:5)	0.0274159	0.00833132	0.01440591	0.01042007	0.0083075	0.01377614	0.00801958	0.47965577	
C43H74O10	MGDG(34:4)	0.05373515	0.0263825	0.04091278	0.03878582	0.03530685	0.03902462	0.00992052	1.2789211	
C43H76O10	MGDG(34:3)	0.85866584	0.67067099	0.65979058	0.54473812	0.50779564	0.64833223	0.13725234	0.62217567	
C43H78O10	MGDG(34:2)	0.03399571	0.02429967	0.03054052	0.0405225	0.03011467	0.03189461	0.00594853	1.01229509	
C43H80O10	MGDG(34:1)	0.00438654	0.00485993	0.00403365	0	0.01038437	0.0047329	0.0037069	0.8104414	
C45H74O10	MGDG(36:6)	19.6144282	16.9771405	15.6419347	13.6659223	13.0095374	15.7817926	2.65987868	0.48188928	
C45H76O10	MGDG(36:5)	0.58615184	0.43149277	0.41460203	0.31694381	0.28686819	0.40721173	0.11757403	2.15952457	
C45H78O10	MGDG(36:4)	0.3706629	0.32839273	0.28350827	0.26108065	0.21547565	0.29182404	0.05999212	1.25294565	
C45H80O10	MGDG(36:3)	0.05483179	0.06248487	0.08355427	0.05152146	0.03426842	0.05733216	0.01793113	1.60287681	
C45H82O10	MGDG(36:2)	0	0.00138855	0	0.00926228	0.00674984	0.00348014	0.00426385	1.93010132	
C45H84O10	MGDG(36:1)	0.01425627	0.0145798	0.02362569	0	0.00882671	0.01225769	0.00866949	1.05983999	
C47H78O10	MGDG(38:6)	0.06470151	0.05137645	0.06741965	0.0480481	0.045172	0.05534354	0.01007255	0.57355125	
C47H80O10	MGDG(38:5)	0.00328991	0.02152257	0.03515042	0.01157786	0.01557655	0.01742346	0.01192043	1.11476841	
C47H82O10	MGDG(38:4)	0	0.01110842	0.00749107	0.00115779	0.0057114	0.00509374	0.00457556	1.17748868	

C47H84O10 MGDG(38:3)	0	0.00069428	0.00172871	0	0.00311531	0.00110766	0.00132675	1.11404768
Total MGDG	21.7018744	18.6368082	17.3242566	15.0121375	14.2335949	17.3817343	2.99031336	0.54784515
C38H73O10F PG(32:1)	0.10747031	0.21383713	0.17586732	0.30310827	0.23987892	0.20803239	0.07286056	0.80517291
C38H75O10F PG(32:0)	0.24564642	0.21772508	0.24201925	0.35335616	0.30675426	0.27310023	0.05558722	0.79456414
C40H71O10F PG(34:4)	0.6847394	0.92727554	0.86804238	1.12004179	1.2110251	0.96222484	0.20850523	0.55778973
C40H73O10F PG(34:3)	0.76764507	0.90589183	0.91483277	1.29834077	1.19067174	1.01547644	0.22037692	0.62164081
C40H75O10F PG(34:2)	1.78093656	2.19669049	1.95712901	2.89168531	2.83638652	2.33256558	0.5074839	0.56707217
C40H77O10F PG(34:1)	0.02149406	0	0.020975	0.06969869	0.03925291	0.03028413	0.02605283	5.25824084
C40H79O10F PG(34:0)	0	0.01555179	0.04356347	0.048627	0.01599193	0.02474684	0.02060298	1.02410447
C42H71O10F PG(36:6)	0	0.00388795	0	0	0	0.00077759	0.00173874	5.77564065
C42H73O10F PG(36:5)	0.01228232	0.02138371	0.01129423	0.016209	0.0130843	0.01485071	0.00408933	1.01013629
C42H75O10F PG(36:4)	0.0307058	0.05637524	0.04517693	0.05348969	0.02035336	0.04122021	0.01534478	0.65153395
C42H77O10F PG(36:3)	0.00307058	0	0.01129423	0.0097254	0.00145381	0.0051088	0.00507902	1.03110917
C42H79O10F PG(36:2)	0	0.00388795	0.01774808	0.0129672	0.01453812	0.00982827	0.0075273	1.68559757
C42H81O10F PG(36:1)	0.00921174	0	0.00322692	0.0048627	0.00581525	0.00462332	0.00338588	1.85722987
Total PG	3.66320227	4.56250671	4.31116959	6.18211197	5.89520623	4.92283936	1.07493372	0.63714562
C22H43O9P LPG(16:1)	0	0	0	0.0194508	0.00290762	0.00447168	0.0084677	0.70370517
C22H45O9P LPG(16:0)	0	0	0.00322692	0	0	0.00064538	0.00144312	2.77352492
C24H43O9P LPG(18:3)	0	0	0	0	0	0	0	#DIV/0!
C24H45O9P LPG(18:2)	0	0	0	0	0	0	0	#DIV/0!
C24H47O9P LPG(18:1)	0.03684696	0	0	0	0	0.00736939	0.01647846	0.59883432
Total LysoPG	0.03684696	0	0.00322692	0.0194508	0.00290762	0.01248646	0.01561522	1.15351775
C24H48O7P† LPC(16:1)	0	0	0	0	0	0	0	#DIV/0!
C24H50O7P† LPC(16:0)	0.0142242	0.00300176	0.00249141	0.01585165	0.01122443	0.00935869	0.00626264	1.52196065
C26H48O7P† LPC(18:3)	0.00632187	0.0080047	0.00332188	0.00834298	0.00748295	0.00669487	0.00203526	1.79759548
C26H50O7P† LPC(18:2)	0.01580466	0.00400235	0.0132875	0.02669752	0.06734657	0.02542772	0.02478829	1.59441596
C26H52O7P† LPC(18:1)	0	0	0	0	0	0	0	#DIV/0!
C26H54O7P† LPC(18:0)	0.01580466	0.01000588	0	0.00500579	0	0.00616327	0.00680135	0.37048065
Total LysoPC	0.05215539	0.0250147	0.01910079	0.05589794	0.08605395	0.04764455	0.02688217	1.50605495
C21H42O7P† LPE(16:1)	0	0	0	0	0	0	0	#DIV/0!
C21H44O7P† LPE(16:0)	0.05462155	0.06724028	0.07175335	0.08169536	0.13074364	0.08121084	0.02934853	1.3506655
C23H42O7P† LPE(18:3)	0.00910359	0	0	0.00800935	0.01293069	0.00600873	0.00578152	2.14790178
C23H44O7P† LPE(18:2)	0.10317404	0.06147683	0.11002181	0.10251967	0.21263801	0.11796607	0.05629014	1.0068821
C23H46O7P† LPE(18:1)	0	0	0.00318904	0	0	0.00063781	0.00142618	2.90790875
Total LysoPE	0.16689917	0.12871711	0.1849642	0.19222438	0.35631234	0.20582344	0.08764622	1.18172857
C40H80O8P† PC(32:0)	0.03350107	0.03277818	0.03680713	0.03376144	0.01730354	0.03083027	0.0077171	2.78122952
C42H76O8P† PC(34:4)	0.05786548	0.04049069	0.04640899	0.05466138	0.05335257	0.05055582	0.00701091	1.91027692
C42H78O8P† PC(34:3)	2.75317856	2.73794212	2.72212747	2.93885299	2.75558824	2.78153788	0.08896048	1.85161735

C42H80O8P† PC(34:2)	9.73662815	9.87780104	10.238784	10.1316474	9.82985088	9.9629423	0.21256206	1.70198315
C42H82O8P† PC(34:1)	0.02284164	0	0	0	0.01658256	0.00788484	0.01102121	113.088164
C44H76O8P† PC(36:6)	0.52992596	0.53601965	0.53450357	0.55304454	0.52199003	0.53509675	0.01142202	1.79248621
C44H78O8P† PC(36:5)	2.6937903	2.74469057	2.88295864	2.74030356	2.68276919	2.74890245	0.07980241	1.44100649
C44H80O8P† PC(36:4)	7.44789619	7.9197868	7.68868986	7.59391252	7.21629584	7.57331624	0.26314011	1.26429235
C44H82O8P† PC(36:3)	0.2954185	0.29114737	0.35366853	0.3633374	0.36049035	0.33281243	0.0362874	4.28879521
C44H84O8P† PC(36:2)	0.61215585	0.55530094	0.56170884	0.63182124	0.54650337	0.58149805	0.03799623	2.7382787
C44H86O8P† PC(36:1)	0.14770925	0.16099871	0.13842682	0.09083435	0.15789477	0.13917278	0.02844695	2.58447573
C46H80O8P† PC(38:6)	0.03959217	0.01928128	0.0320062	0.02250763	0.04902669	0.03248279	0.01222962	1.6781797
C46H82O8P† PC(38:5)	0.17359644	0.13496898	0.14082729	0.14790726	0.13987026	0.14743404	0.01533731	1.31884249
C46H84O8P† PC(38:4)	0.25582633	0.20630972	0.22084279	0.23633008	0.20331656	0.2245251	0.02187628	1.44102806
C46H86O8P† PC(38:3)	0.27105408	0.19859721	0.19683814	0.19131483	0.20331656	0.21222416	0.03316598	1.6482207
C46H88O8P† PC(38:2)	0.22232526	0.16967529	0.16323163	0.16398414	0.18457106	0.18075747	0.02476762	1.8145048
C48H86O8P† PC(40:5)	0.03045552	0.02313754	0.01440279	0.01125381	0.01297765	0.01844546	0.00812738	2.23396172
C48H88O8P† PC(40:4)	0.01827331	0.01156877	0	0.00643075	0.01009373	0.00927331	0.00672712	2.13225443
C48H90O8P† PC(40:3)	0.02740996	0.03663444	0.04160806	0.02250763	0.02451334	0.03053469	0.00822011	1.96801835
C48H92O8P† PC(40:2)	0.11268541	0.09062203	0.0800155	0.08359976	0.07209807	0.08780415	0.01542756	1.73440463
Total PC	25.4821294	25.7877513	26.0938563	26.0180128	25.0584053	25.688031	0.42495597	1.65755517
C37H68O8P† PE(32:3)	0	0.01819819	0.00755208	0.01011586	0.01360962	0.00989515	0.00682258	1.32679797
C37H70O8P† PE(32:2)	0.07665263	0.08795793	0.11076382	0.06828205	0.08619426	0.08597014	0.01595629	1.05243285
C37H72O8P† PE(32:1)	0.00958158	0.02123123	0.02265624	0.02528965	0.03175578	0.02210289	0.00808058	2.85673336
C37H74O8P† PE(32:0)	0.00958158	0.01213213	0.00503472	0.01011586	0.01814616	0.01100209	0.00476255	2.50703202
C39H70O8P† PE(34:4)	0.04790789	0.06369368	0.05789927	0.05816619	0.05897502	0.05732841	0.00576632	1.12023963
C39H72O8P† PE(34:3)	2.5894215	2.43400834	2.46323631	2.34055686	2.44632914	2.45471043	0.08909212	1.39476214
C39H74O8P† PE(34:2)	15.6395309	15.6125333	15.6818913	15.1421763	15.6090996	15.5370463	0.22265187	1.28298971
C39H76O8P† PE(34:1)	0	0	0	0	0	0	0	#DIV/0!
C41H70O8P† PE(36:6)	0.14851446	0.16378374	0.16362837	0.13150617	0.14516928	0.1505204	0.01361924	1.45439789
C41H72O8P† PE(36:5)	1.17853411	1.14042011	1.25867977	1.10009966	1.17950037	1.1714468	0.05868933	1.12632236
C41H74O8P† PE(36:4)	4.33326872	4.34481863	4.5174017	4.19681697	4.44013842	4.36648889	0.12099656	0.95257643
C41H76O8P† PE(36:3)	0.28744734	0.26993987	0.21901028	0.214962	0.18372987	0.23501787	0.042595	2.33661946
C41H78O8P† PE(36:2)	0.32577366	0.31240232	0.32725674	0.31864956	0.32209433	0.32123532	0.00596448	2.76206493
C41H80O8P† PE(36:1)	0.15570065	0.11070568	0.12712666	0.15553133	0.15310822	0.14043451	0.02050911	1.16374254
C43H74O8P† PE(38:6)	0.02874473	0.02426426	0.02013888	0.02023172	0.0226827	0.02321246	0.003547	0.76338459
C43H76O8P† PE(38:5)	0.04790789	0.04246245	0.06796871	0.05816619	0.05897502	0.05509605	0.01001817	0.92952306
C43H78O8P† PE(38:4)	0.19881775	0.18956451	0.15230025	0.16564719	0.19393708	0.18005336	0.02008167	0.97938325
C43H80O8P† PE(38:3)	0.06228026	0.05156155	0.07048607	0.09610066	0.07031637	0.07014898	0.01643959	1.64232364
C45H84O8P† PE(40:3)	0.01437237	0.04549548	0.05538191	0.07081101	0.07031637	0.05127543	0.02321801	1.25496254
C45H86O8P† PE(40:2)	0.67789665	0.58689173	0.640668	0.57028155	0.57046989	0.60924157	0.04801506	1.07375168

C47H86O8P PE(42:4)	0	0.01819819	0.00251736	0.00758689	0.00453654	0.0065678	0.00707058	0.42982798
C47H88O8P PE(42:3)	0.02874473	0.04549548	0.05286455	0.05816619	0.05217021	0.04748823	0.01140323	1.24602488
C47H90O8P PE(42:2)	0.74257231	0.79465444	0.71744747	0.67017565	0.69182233	0.72333444	0.04824459	1.11237531
Total PE	26.6032518	26.3904132	26.7419104	25.4894355	26.4230766	26.3296175	0.49071316	1.24967715
C41H73O13F PI(32:3)	0.00781813	0.00742445	0.00924323	0.00412704	0.01203023	0.00812862	0.00287532	0.49906366
C41H75O13F PI(32:2)	0.00195453	0	0	0.00206352	0.00185081	0.00117377	0.00107414	1.25435609
C41H77O13F PI(32:1)	0	0	0	0	0.00185081	0.00037016	0.00082771	3.41137985
C41H79O13F PI(32:0)	0	0.00433093	0.00051351	0.00670644	0.00508971	0.00332812	0.0029377	2.09584674
C43H75O13F PI(34:4)	0	0	0.0041081	0.00206352	0.00185081	0.00160449	0.0017094	0.77211171
C43H77O13F PI(34:3)	0.26093018	0.06867616	0.18435108	0.35028258	0.43910355	0.26066871	0.14366213	0.62648357
C43H79O13F PI(34:2)	0.94794859	0.2536687	0.60183696	1.2855732	1.63888807	0.9455831	0.54616334	0.52291547
C43H81O13F PI(34:1)	0.00781813	0.00247482	0	0	0	0.00205859	0.00339334	2.4652328
C45H75O13F PI(36:6)	0.01563627	0.00371222	0.00718918	0.0051588	0.01295564	0.00893042	0.00513949	0.30588994
C45H77O13F PI(36:5)	0.0058636	0.00123741	0.00924323	0.01960344	0.02220966	0.01163147	0.00897857	0.39518671
C45H79O13F PI(36:4)	0.03322706	0.01237408	0.02259456	0.04539745	0.05367335	0.0334533	0.0166869	0.30954554
C45H81O13F PI(36:3)	0.00390907	0	0.00308108	0.00825408	0.00555242	0.00415933	0.00305094	0.81999119
C45H83O13F PI(36:2)	0.01563627	0.00371222	0.00924323	0.0154764	0.01850805	0.01251524	0.00597123	0.70215761
C45H85O13F PI(36:1)	0.0117272	0.00123741	0.0041081	0.00722232	0.01017943	0.00689489	0.00430174	0.41027691
Total PI	1.31246902	0.3588484	0.85551227	1.7519288	2.22374254	1.30050021	0.73161291	0.54637146
C40H70O10F PS(34:4)	0	0	0.00225462	0	0	0.00045092	0.0010083	1.58487138
C40H72O10F PS(34:3)	0.03647155	0.03938884	0.02818276	0.04869781	0.04164634	0.03887746	0.00749221	1.09090881
C40H74O10F PS(34:2)	0.19093927	0.14261477	0.1544415	0.20045378	0.17369569	0.172429	0.02419742	1.3350969
C40H76O10F PS(34:1)	0.00429077	0	0	0.00906006	0.00203153	0.00307647	0.00378481	1.28393956
C42H70O10F PS(36:6)	0	0.00271647	0	0	0	0.00054329	0.00121484	1.99177457
C42H72O10F PS(36:5)	0.00858154	0.01629883	0.00901848	0.01359009	0.00203153	0.00990409	0.00545413	1.30609811
C42H74O10F PS(36:4)	0.02574462	0.04346355	0.03381931	0.02718017	0.03859904	0.03376134	0.00750199	1.15121359
C42H76O10F PS(36:3)	0.00429077	0.01086589	0.00450924	0.00906006	0.00203153	0.0061515	0.00366806	1.50463311
C42H78O10F PS(36:2)	0.02145385	0.00814942	0.00901848	0.00906006	0.02234681	0.01400572	0.00722283	2.08871444
C42H80O10F PS(36:1)	0	0	0	0	0	0	0	#DIV/0!
C44H74O10F PS(38:6)	0	0	0	0.00226501	0	0.000453	0.00101295	1.72398334
C44H76O10F PS(38:5)	0	0	0	0	0.00203153	0.00040631	0.00090853	0
C44H78O10F PS(38:4)	0.00429077	0.00271647	0.00450924	0.00226501	0.00203153	0.00316261	0.00115869	0.7064504
C44H80O10F PS(38:3)	0	0.00271647	0.00225462	0.00679504	0.00609459	0.00357214	0.00282746	1.12458905
C44H82O10F PS(38:2)	0.04076232	0.03938884	0.02141889	0.04190277	0.03148869	0.0349923	0.00861525	1.16461891
C44H84O10F PS(38:1)	0	0	0	0	0	0	0	#DIV/0!
C46H82O10F PS(40:4)	0	0	0	0	0	0	0	#DIV/0!
C46H84O10F PS(40:3)	0.05578001	0.05704591	0.06087475	0.06115539	0.08329267	0.06362975	0.01123953	1.20441427
C46H86O10F PS(40:2)	0.43980394	0.41697844	0.43626906	0.63533654	0.54140236	0.49395807	0.0927704	1.27554906

