

Supplemental Table 3. Summary of the non-gel based comparative proteome analysis of BS and M chloroplast stroma using cICAT and parallel LS-MS runs. This includes two cICAT experiments, using either 1-D gels or 2-D-LC for proteome fractionation (2D LC-cICAT and D gel-Gel cICAT) and two experiments with parallel LC-MS analysis (UN-LC1 and UN-LC2). Experiment name, fraction, ZmGI accession number, protein name, sequence and charge state (z) of each quantified peptide, integrated peak volume and BS/M peak volume ratio's are listed.

Experiment	Fraction	ZmGI accession #	Protein Name	Peptide sequence	BS mass (charge)	BS peak area	MS mass (charge)	MS peak area	BS/M ratio
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	AW157962	lipoxygenase- common	APLDEEIYVPCDER	938.9 (2)	noise (30)	943.4 (2)	282.6	0.11
2D icat	low threshold 50mM NH4Cl, yc2dtest169	AW157962	lipoxygenase- common	APLDEEIYVPCDER	943.3 (2)	46.9	938.8 (2)	344.8	0.14
unlabeled peptide 1	C01171-74yc	TC218860	inorganic pyrophosphatase-like protein	ASLVNDVDDVEK	652.6 (2)	2498.4	652.6 (2)	4802.3	0.52
unlabeled peptide 1	C01171-74yc	TC218860	inorganic pyrophosphatase-like protein	VKPLAALAMIDEGELDWK	667.2 (2)	2020.3	667.2 (2)	3642.2	0.55
unlabeled peptide 1	C01171-74yc	TC218860	inorganic pyrophosphatase-like protein	IVAISLDDPK	536.2 (2)	4582.1	536.2 (2)	6466.5	0.71
unlabeled peptide 1	C01171-74yc	TC218860	inorganic pyrophosphatase-like protein	AGDGVFHFVVEIPK	758.3 (2)	1181.2	758.3 (2)	1470.9	0.80
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC218860	inorganic pyrophosphatase-like protein	VIQETNESWEK	682.2 (2)	1165	682.2 (2)	2635.8	0.44
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC218860	inorganic pyrophosphatase-like protein	AGDGVFHFVVEIPK	758.3 (2)	760.3	758.3 (2)	1393.4	0.55
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC218860	inorganic pyrophosphatase-like protein	AGDGVFHFVVEIPK	505.9 (3)	4180.3	505.9 (3)	7269.6	0.58
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC218860	inorganic pyrophosphatase-like protein	ASLVNDVDDVEK	652.7 (2)	2740.5	652.7 (2)	4492.3	0.61
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC218860	inorganic pyrophosphatase-like protein	IVAISLDDPK	536.2 (2)	4688.1	536.2 (2)	6756.5	0.69
1D gel ICAT 1	fraction no. 7 yccat060404fr7ht	TC219223	ferredoxin {Zea mays}, complete	DNTYVVMCGLK	767.8 (2)	412.5	772.3 (2)	4740.7	0.09
1D gel ICAT 1	fraction no. 7 yccat060404fr7ht	TC219223	ferredoxin {Zea mays}, complete	DNTYVVMCGLK	775.8 (2)	126.2	780.3 (2)	1306.7	0.10
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC219223	ferredoxin {Zea mays}, complete	GVCSNFLCDLKPGAIEVK	745.8 (3)	1242.7	751.8 (2)	11854.4	0.10
2D icat	low threshold 50mM NH4Cl, yc2dtest155, 169	TC219223	ferredoxin b	DNTYVVMCGLK	772.3 (2)	42.8	767.8 (2)	335	0.13
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219223, TC219226	ferredoxin {Zea mays}	GVCSNFLCDLKPGAIEVK	947.9 (2)	45.3	947.9 (2)	277.3	0.16
unlabeled peptide 1	C01171-74yc	TC219224	ferredoxin {Zea mays}, partial (39%)	LVYTNDQGEIVK	690.4 (2)	333.1	690.4 (2)	1350.2	0.25
unlabeled peptide 1	C01171-74yc	TC219224	ferredoxin {Zea mays}, partial (39%)	ITGDDAPGETWHMVFSTEG EIPYR	903.8 (3)	1091.4	903.8 (3)	3189.7	0.34
2D icat	low threshold 200mM NH4Cl, ye2dtest159, 173 (low thresh)	TC219226	ferredoxin	TVSLCVKR	571.7 (2)	81	567.2 (2)	584.5	0.14
2D icat	low threshold 200mM NH4Cl, ye2dtest159, 173 (low thresh)	TC219226	ferredoxin	GVCSNFLCDLKPGAIEVK	1127 (2)	122.3	1118 (2)	837.7	0.15

2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC219293	Plastocyanin	ISQEEYLNAPGETYSVTLTV PGTYGFYCEPHQGAGMVG KITVN	1219.5 (4)	402.8	1217.5 (4)	1191.7	0.34
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219293	Plastocyanin	NNAGFPHNVVFEDEVEPSG VDATK	1280.1 (2)	924.3	1280.1 (2)	1887.5	0.49
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219293	Plastocyanin	NNAGFPHNVVFEDEVEPSG VDATK	853.7 (3)	8491.1	853.7 (3)	14039.7	0.60
unlabeled peptide 1	C01171-74yc	TC219295	Plastocyanin b	NNAGFPHNVVFEDEVEPSG VDSAK	849.1 (3)	15069.1	849.1 (3)	11565	1.30
unlabeled peptide 1	C01171-74yc	TC219295	Plastocyanin b	NNAGFPHNVVFEDEVEPSG VDSAK	1273.1 (2)	2588.2	1273.1 (2)	1293.1	2.00
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219295	Plastocyanin b	NNAGFPHNVVFEDEVEPSG VDASK	1273 (2)	892.2	1273 (2)	2087.1	0.43
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219295	Plastocyanin b	NNAGFPHNVVFEDEVEPSG VDASK	849 (3)	8271.6	849 (3)	15040.9	0.55
1D gel ICAT 1	fraction no. 7 yc1dgel016	TC219359	Fructose-bisphosphate aldolase	GLVPLAGSNNESWCQGLD GLASR	858.1 (3)	2892.4	861.1 (3)	320.4	9.03
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC219359	Fructose-bisphosphate aldolase	GILAMDESATCGK	819.3 (2)	1485.6	823.8 (2)	156.1	9.52
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC219359	Fructose-bisphosphate aldolase	GILAMDESATCGK	827.3 (2)	1348.3	831.8 (2)	139.5	9.67
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC219359	Fructose-bisphosphate aldolase	GILAMDESATCGK	831.7 (2)	148.1	827.2 (2)	31.8	4.66
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC219359	Fructose-bisphosphate aldolase	GILAMDESATCGK	823.8 (2)	1187.8	819.3 (2)	250.5	4.74
unlabeled peptide 1	C01171-74yc	TC219359	Fructose-bisphosphate aldolase	TLLVTAPGLGQYISGAILFEE TLYQSAVDGR	1095.5 (3)	1640.9	1095.5 (3)	389.7	4.21
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219359	Fructose-bisphosphate aldolase	YAAISQDNGLVPIVEPEILLD GEHGIER	1016.9 (2)	3231.8	1016.9 (2)	806.3	4.01
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219359	Fructose-bisphosphate aldolase	TVVSIPNGPSELAVK	756.4 (2)	2889.9	756.4 (2)	537.7	5.37
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219359	Fructose-bisphosphate aldolase	IVDILAEQGVPGIK	783.4 (2)	2611.6	783.4 (2)	477	5.48
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219359	Fructose-bisphosphate aldolase	GLVPLAGSNNESWCQGLD GLASR	1201.4 (2)	1242.5	1201.4 (2)	205.4	6.05
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219359	Fructose-bisphosphate aldolase	ATPEQVAAYTLK	646.7 (2)	8395.3	646.7 (2)	1064.6	7.89
1D gel ICAT 1	fraction no. 5 yc1dgel010, 011	TC219522	RuBisCO subunit binding-protein beta subuni	AAVEEGIVVGGGCTLLR	936.4 (2)	688	940.9 (2)	818.4	0.84
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC219522	RuBisCO subunit binding-protein beta subunit	AAVEEGIVVGGGCTLLR	940.9 (2)	277.2	936.4 (2)	275.6	1.01
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC219522	RuBisCO subunit binding-protein beta subunit	AAVEEGIVVGGGCTLLR	627.7 (3)	455.2	624.7 (3)	412	1.10
unlabeled peptide 1	C01171-74yc	TC219624	Phosphoglycerate kinase, chloroplast precursorB	LASVADLYVNDAFGTAHR	641 (3)	1382	641 (3)	1219.9	1.13
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219624	Phosphoglycerate kinase, chloroplast precursorB	LASVADLYVNDAFGTAHR	641 (3)	1331.5	641 (3)	1220.1	1.09
1D gel ICAT 1	fraction no. 7 ycat060404fr7ht, lt	TC219624, TC219625 ,NP539335	Phosphoglycerate kinase	CDILLGGGMIFTFYK	1009.9 (2)	123.6	1014.4 (2)	298.6	0.41
unlabeled peptide 1	C01171-74yc	TC219625	Phosphoglycerate kinase	AAIPTIQYILSK	659.8 (2)	647.9	659.8 (2)	7052.6	0.09
unlabeled peptide 1	C01171-74yc	TC219625	Phosphoglycerate kinase	AQGLPVGASLVEEDKLELA TSLLAK	851.9 (3)	263.7	851.9 (3)	2654	0.10

unlabeled peptide 1	C01171-74yc	TC219625	Phosphoglycerate kinase	FAPDANSQIVPASAI PDGW MGLDIGPDSVASFNAALDT TK	1354.8 (3)	821.8	1354.8 (3)	3901	0.21
unlabeled peptide 1	C01171-74yc	TC219625	Phosphoglycerate kinase	SVGELTEADLEGK	674.8 (2)	969.6	674.8 (2)	4109.7	0.24
unlabeled peptide 1	C01171-74yc	TC219625	Phosphoglycerate kinase	ELDYLVGAVSSPK	689.8 (2)	1369.5	689.8 (2)	5712	0.24
unlabeled peptide 1	C01171-74yc	TC219625	Phosphoglycerate kinase	ADLNVPLDENQNITDDTR	1022.5 (2)	2614	1022.5 (2)	7634.2	0.34
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219625	Phosphoglycerate kinase	LASLADLYVNDAFGTAHR	967.9 (2)	122.4	967.9 (2)	346.8	0.35
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219625	Phosphoglycerate kinase	AAIPTIYILSK	659.8 (2)	951.5	659.8 (2)	2290.6	0.42
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219625	Phosphoglycerate kinase	SVGELTEADLEGKR	752.8 (2)	259.7	752.8 (2)	425.6	0.61
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219625	Phosphoglycerate kinase	ADLNVPLDENQNITDDTR	1022.3 (2)	1667.8	1022.3 (2)	2287.6	0.73
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219625	Phosphoglycerate kinase	LSELLGIQVQK	614.7 (2)	5491.2	614.7 (2)	3037.6	1.81
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219625, TC219624	Phosphoglycerate kinase	GVTTIIGGDSVAAVEK	787.8 (2)	1601.3	787.8 (2)	2503.3	0.64
1D gel ICAT 1	fraction no. 5 yc1dgel010, 011	TC219885	Ketol-acid reductoisomerase	GVAFMVDNCSTTAR	850.4 (2)	212.7	854.9 (2)	414.2	0.51
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	VVDLADICANQWK	851.9 (2)	2643.4	856.4 (2)	1866.8	1.42
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	DAAANELTGILEVCDVPLVS VDFR	1387.8 (2)	3109.2	1392.3 (2)	2068.1	1.50
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	DAAANELTGILEVCDVPLVS VDFR	925.5 (3)	8651.2	928.5 (3)	5726.3	1.51
2D icat	High threshold 300mM NH4Cl, yc2dtest161	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	CWHGGRGDASPLDVIAINDT GGVK	873.4 (3)	1471.5	870.4 (3)	1541.5	0.95
2D icat	low threshold 50mM NH4Cl, yc2dtest169	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	CSDVSSSTIDASLTMVMGDD MVK	848 (3)	925.4	845 (3)	892.3	1.04
2D icat	low threshold 50mM NH4Cl, yc2dtest169	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	DAAANELTGILEVCDVPLVS VDFR	928.4 (3)	1984.7	925.4 (3)	1887.2	1.05
2D icat	low threshold 200mM NH4Cl,yc2dtest159, 173 (low thresh)	TC219897	glyceraldehyde-3-phosphate dehydrogenase A	VLITAPGKGDIPYVVGVNA DQYNPDEPIISNASCTTNCNCL APFVK	1295.7 (4)	2676.7	1291.2 (4)	2212.5	1.21
unlabeled peptide 1	C01171-74yc	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	VQG DATVDAVFAK	639.7 (2)	7092	639.7 (2)	12124	0.58
unlabeled peptide 1	C01171-74yc	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	GDASPLDVIAINDTGGVK	871.9 (2)	7229.2	871.9 (2)	9204.9	0.79
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	VPTPNVSVVDLVVQVSKK	637 (2)	3295.1	637 (2)	2850.5	1.16
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	VVDLADICANQWK	766.8 (2)	5142.6	766.8 (2)	3595.7	1.43
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	TLAEEVNQA FR	639.7 (2)	4628.8	639.7 (2)	3193	1.45
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	YDSTLGFIDADV KPVGDNAI SVDGK	866.4 (2)	9168.4	866.4 (2)	6057.3	1.51
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219897	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)A	GDASPLDVIAINDTGGVK	871.8 (2)	6240.5	871.8 (2)	3646.9	1.71

unlabeled peptide 1	C01171-74yc	TC219937	Oxygen-evolving enhancer protein 3-1, chloroplast precursor (OEE3 AR	IGAPPPPSGGLPGLNSDQ	1001.9 (2)	609.2	1001.9 (2)	1198.9	0.51
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219937, TC238011	Oxygen-evolving enhancer protein 3-1	IGAPPPPSGGLPGLNSDQ AR	668.3 (3)	116.5	668.3 (3)	897.7	0.13
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219937, TC238011	Oxygen-evolving enhancer protein 3-1	IGAPPPPSGGLPGLNSDQ AR	1001.9 (2)	232.7	1001.9 (2)	1777	0.13
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC219944	aspartate transaminase		680 (3)	349.6	683 (3)	4199.8	0.08
1D gel ICAT 1	fraction no. 6 yc1dgel012, 015	TC219944	aspartate transaminase	CDYLADAIIDSFHNVN	1019.4 (2)	302.5	1023.9 (2)	3413.8	0.09
1D gel ICAT 1	fraction no. 6 yc1dgel012, 014	TC219944	aspartate transaminase		609.9 (3)	181.1	612.9 (3)	1932.7	0.09
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC219944	aspartate transaminase	VGAINVVCSAPEVADR	914.3 (2)	649.2	918.8 (2)	6852	0.09
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC219944	aspartate transaminase	VGAINVVCSAPEVADR	918.7 (2)	64.7	914.2 (2)	376.5	0.17
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC219944	aspartate transaminase	VGAINVVCSAPEVADRVK	688.7 (3)	961.5	685.7 (3)	5353.2	0.18
unlabeled peptide 1	C01171-74yc	TC219944	aspartate transaminase	ATAELLGADNPVINQGLVATLQSLSGTGSLR	1061.1 (3)	631.5	1061.1 (3)	2058.8	0.31
unlabeled peptide 1	C01171-74yc	TC219944	aspartate transaminase	LNLGVGAYR	482.2 (2)	438.6	482.2 (2)	1034.4	0.42
unlabeled peptide 1	C01171-74yc	TC219944	aspartate transaminase	FEGVPMAPPDPILGVSEAFK	701.5 (3)	624.1	701.5 (3)	1097	0.57
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219944	aspartate transaminase	VGAINVVCSAPEVADR	829.3 (2)	171	829.3 (2)	1025.9	0.17
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219944	aspartate transaminase	ATAELLGADNPVINQGLVATLQSLSGTGSLR	1061.1 (3)	256.2	1061.1 (3)	1518.9	0.17
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC219944	aspartate transaminase	ATAELLGADNPVINQGLVATLQSLSGTGSLR	796.1 (4)	48.6	796.1 (4)	259.7	0.19
1D gel ICAT 1	fraction no. 5 yc1dgel010, 011	TC220034	translational elongation factor EF-TuM (Zea mays),	HYAHVDCPGHADYVK	485.7 (4)	372.1	488 (4)	1658.4	0.22
2D icat	low threshold 300mM NH4Cl, yc2dtest161, 175	TC220034	translational elongation factor EF-TuM	HYAHVDCPGHADYVK	974.9 (2)	36.1	970.4 (2)	133.1	0.27
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC220059	Ferredoxin I	LITPEGEVELQVPDDVYILDQAEEDGIDLPYSCR	1357.9 (3)	443.7	1354.9 (3)	2294.8	0.19
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC220059	Ferredoxin I	LITPEGEVELQVPDDVYILDQAEEDGIDLPYSCR	1018.8 (4)	540.3	1016.5 (4)	2720.3	0.20
unlabeled peptide 1	C01171-74yc	TC220059	Ferredoxin I,	VVSGSVDQSDQSYLDDGQIAAGWVLTCHAYPTSDVIVIE THKEEELTGA	1295.7 (4)	3523.9	1295.7 (4)	7086.3	0.50
unlabeled peptide 1	C01171-74yc	TC220059	Ferredoxin I,	LITPEGEVELQVPDDVYILDQAEEDGIDLPYSCR	974.1 (4)	2519.7	974.1 (4)	4640.3	0.54
unlabeled peptide 1	C01171-74yc	TC220059	Ferredoxin I,	LITPEGEVELQVPDDVYILDQAEEDGIDLPYSCR	1298.3 (3)	8391.5	1298.3 (3)	14889.7	0.56
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC220059	Ferredoxin I,	VVSGSVDQSDQSYLDDGQIAAGWVLTCHAYPTSDVIVIE THKEEELTGA	1295.7 (4)	3027.1	1295.7 (4)	19385.4	0.16
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC220059	Ferredoxin I,	LITPEGEVELQVPDDVYILDQAEEDGIDLPYSCR	1298.1 (3)	3097.6	1298.1 (3)	15262	0.20
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC220059	Ferredoxin I,	VVSGSVDQSDQSYLDDGQIAAGWVLTCHAYPTSDVIVIE THK	1113.3 (4)	3124.1	1113.3 (4)	5926.7	0.53
unlabeled peptide 1	C01171-74yc	TC220215	dnaK-type molecular chaperone b	QFAAEEISAQVLR	731.8 (2)	615.1	731.8 (2)	653	0.94

1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC220215,TC 235785	dnaK-type molecular chaperone HSC70-9	AKFEELCSDLIDR	589.5 (3)	1000.1	592.5 (3)	1754.4	0.57
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC220215,TC 235785	dnaK-type molecular chaperone HSC70-9	AKFEELCSDLIDR	883.9 (2)	388.6	888.4 (2)	661.5	0.59
unlabeled peptide 1	C01171-74yc	TC220472	beta-D-glucosidase	SMDINLGFLEPVVR	888.9 (2)	2279.3	888.9 (2)	72.2	31.57
unlabeled peptide 1	C01171-74yc	TC220472	beta-D-glucosidase	GTVEGGINQDGIDYYKR	629.4 (3)	1245.4	629.4 (3)	noise (20- 30)	41.51
unlabeled peptide 1	C01171-74yc	TC220472	beta-D-glucosidase	VGNQNGVQLLSPSEIPR	905.4(2)	1708.2	905.4(2)	noise (20- 30)	56.94
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC220472	beta-D-glucosidase	NWLTFNEPQFTFSFSYGTG VFAPGR	942.5 ()	504.3	942.5 ()	noise (20- 30)	16.81
1D gel ICAT 1	fraction no. 7 yccat060404fr7ht	TC220484	AF385689 At2g27680/F15K20	MAELCQLTGVR	724.8 (2)	401.9	729.3 (2)	1336.5	0.30
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC220929	AP004674 P0681F05.21	SPRPEDAAVAVEDGEDDDV CEAER	934.8 (3)	41.8	937.8 (3)	1079.7	0.04
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC220999	Malate dehydrogenase [NADP]	SLVTPPTPEGDWFSTGVYTT GNPYGIAEDIVFSMPCR	1545.2 (2)	30.2	1554.2 (2)	580.4	0.05
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC220999	Malate dehydrogenase [NADP]	SLVTPPTPEGDWFSTGVYTT GNPYGIAEDIVFSMPCR	1379.7 (3)	401	1382.7 (3)	5494	0.07
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC220999	Malate dehydrogenase [NADP]	KECFGVFCTTYDLK	709.6 (3)	187.6	703.6 (3)	1194.2	0.16
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC220999	Malate dehydrogenase [NADP]	VLVVGNPCNTNALICK	748.6 (3)	539.3	742.6 (3)	3378.1	0.16
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC220999	Malate dehydrogenase [NADP]	CVAHLTGEGNAFCDLPEDT MLPGEV SFQALEGVAMELEDSLYPL	1031.3 (3)	185.2	1025.3 (3)	1058.5	0.17
unlabeled peptide 1	C01171-74yc	TC220999	Malate dehydrogenase [NADP]	LR	1191.7 (2)	322.6	1191.7 (2)	3101.4	0.10
unlabeled peptide 1	C01171-74yc	TC220999	Malate dehydrogenase [NADP]	LASGEVFGQDQPIALK	837.4 (2)	960.5	837.4 (2)	8861	0.11
unlabeled peptide 1	C01171-74yc	TC220999	Malate dehydrogenase [NADP]	SFQALEGVAMELEDSLYPL LR	794.8 (3)	736.9	794.8 (3)	5146.1	0.14
unlabeled peptide 1	C01171-74yc	TC220999	Malate dehydrogenase [NADP]	QAQDGVATAVATEAPASR	872.4 (2)	394.4	872.4 (2)	2331.7	0.17
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC220999	Malate dehydrogenase [NADP]	AALLDINGQIFADQGK	837.8 (2)	496.6	837.8 (2)	2688.9	0.18
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC220999	Malate dehydrogenase [NADP]	VSNVTIWGNHSTTQVPDFL NAK	810.4 (3)	549.8	810.4 (3)	2875.5	0.19
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC221089	Phosphoribulokinase	GGNPDSNTLISDTTIVICLD DYHSLDR	1050.9 (3)	1936.3	1053.9 (3)	119	16.27
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC221089	Phosphoribulokinase	NFNPPVYLFDEGSTISWVPC GR	877.1 (3)	3324.4	880.1 (3)	187.6	17.72
2D icat	low threshold 50mM NH4Cl, yc2dtest169	TC221089	Phosphoribulokinase	GGNPDSNTLISDTTIVICLD DYHSLDR	1053.8 (3)	1253	1050.8 (3)	515.6	2.43
2D icat	low threshold 50mM NH4Cl, yc2dtest169	TC221089	Phosphoribulokinase	LTCSYPGIK	609.8 (2)	380	605.3 (2)	109	3.49
unlabeled peptide 1	C01171-74yc	TC221089	Phosphoribulokinase, chloroplast precursor	NFNPPVYLFDEGSTISWVPC G	1230.1 (2)	567.6	1230.1 (2)	152.1	3.73
unlabeled peptide 1	C01171-74yc	TC221089	Phosphoribulokinase, chloroplast precursor	FYGEVTQQMLK	672.5 (2)	2263.4	672.5 (2)	565.5	4.00

unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221089	Phosphoribulokinase, chloroplast precursor	NFNPVYLFDEGSTISWVPC G	820.4 (3)	950	820.4 (3)	187.6	5.06
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221089	Phosphoribulokinase, chloroplast precursor	NFNPVYLFDEGSTISWVPC G	1230 (2)	1215.2	1230 (2)	238.4	5.10
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221089	Phosphoribulokinase, chloroplast precursor	GGNPDSNTLISDTTTVICLD DYHSLDR	994.1 (3)	2119.2	994.1 (3)	387.4	5.47
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221089	Phosphoribulokinase, chloroplast precursor	KPDFDAFIDPQK	711.3 (2)	1584.6	711.3 (2)	190.3	8.33
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC221089, TC225896	Phosphoribulokinase	LTCSYPGIK	605.2 (2)	1977.3	609.7 (2)	124.4	15.89
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC221089,TC225896	Phosphoribulokinase	KLTCSPYGIK	673.7 (2)	1837.3	669.2 (2)	390.4	4.71
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221334	Thioredoxin M-type	STLTLIDKIYIGSS	750.3 (2)	69.6	750.3 (2)	309.1	0.23
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221334	Thioredoxin M-type	VNTDDSPNVASTYGIR	854.3 (2)	112.8	854.3 (2)	205.6	0.55
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC221334	Thioredoxin M-type	STLTLIDK	496.7 (2)	1384.8	496.7 (2)	2116.5	0.65
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC221632	heat-shock protein, 82K, precursor	LSSSPCVLVSGK	702.8 (2)	190.2	707.3 (2)	430.1	0.44
1D gel ICAT 1	fraction no. 5 yc1dgel010, 011	TC222181	translational elongation factor Tu	MVVQLIQPVACEQGMR	677.4 (3)	590.5	680.4 (3)	2440.4	0.24
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC222181	translational elongation factor Tu	MVVQLIQPVACEQGMR	680.3 (3)	976.7	677.3 (3)	3548.6	0.28
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC222181	translational elongation factor Tu	NCTVTGVMFQKTMDDAM AGDNVGLLLR	1089.5 (3)	183	1086.5 (3)	575.5	0.32
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC222181	translational elongation factor Tu	MVVQLIQPVACEQGMR	1019.9 (2)	301.5	105.2 (2)	928.9	0.32
unlabeled peptide 1	C01171-74yc	TC222181	translational elongation factor Tu	LVDSVDSYIPVPQR	794.9 (2)	563.3	794.9 (2)	3936.9	0.14
unlabeled peptide 1	C01171-74yc	TC222181	translational elongation factor Tu	ELLSNYEYDGDEVPIVAGSA LK	1192.3 (2)	261.5	1192.3 (2)	1562.4	0.17
unlabeled peptide 1	C01171-74yc	TC222181	translational elongation factor Tu	IGDVTDIVGIR	579.8 (2)	637.7	579.8 (2)	3662	0.17
1D gel ICAT 1	fraction no. 5 yc1dgel010, 011	TC222181, TC222182	translational elongation factor Tu	NCTVTGVMFQK	792.8 (2)	451.7	797.3 (2)	2040.1	0.22
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC222182	translational elongation factor Tu b	MIVQLIQPVACEQGMR	682 (3)	544.2	685 (3)	2130.1	0.26
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC222182	translational elongation factor Tu b	MIVQLIQPVACEQGMR	685 (3)	310.2	682 (3)	969.2	0.32
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC222257	ACTCH Fruit protein PKIWI502	LCALRDGDVVELGAVTGK	684.9 (3)	669.8	681.9 (3)	2234.2	0.30
unlabeled peptide 1	C01171-74yc	TC222257	ACTCH Fruit protein PKIWI502.	SLIEFGFAAK	542.3 (2)	209.3	542.3 (2)	352.1	0.59
unlabeled peptide 1	C01171-74yc	TC222257	ACTCH Fruit protein PKIWI502.	GYVQDAFFR	552.2 (2)	930.2	552.2 (2)	1057.3	0.88
unlabeled peptide 1	C01171-74yc	TC222347	ferredoxin-nitrite reductaseprecursor - maize	LTVEQNIVLPNVSNER	913.5 (2)	240.5	913.5 (2)	675	0.36
unlabeled peptide 1	C01171-74yc	TC222347	ferredoxin-nitrite reductaseprecursor - maize	LQAADMFELAR	633.3 (2)	444.3	633.3 (2)	1140.5	0.39
unlabeled peptide 1	C01171-74yc	TC222347	ferredoxin-nitrite reductaseprecursor - maize	AVGLTSLQSGMDNVR	774.9 (2)	456	774.9 (2)	1010.8	0.45
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC222347	ferredoxin-nitrite reductaseprecursor - maize	GVTLDPVPAILDGLR	768.8 (2)	145.1	768.8 (2)	607.8	0.24
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC222347	ferredoxin-nitrite reductaseprecursor - maize	DGEFGFNLLVGGFISPK	899.4 (2)	42.2	899.4 (2)	161.9	0.26

1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC222347	TC222347	YLASVIEAYGADGCADVTT R	768.4 (3)	115.7	771.4 (3)	790.3	0.15
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC222347	TC222347	SVPCCKDLVPIVADLLVER	732 (3)	152.3	735 (3)	731.2	0.21
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC222347, TC222348	ferredoxin-nitrite reductase	SVPCCKDLVPIVADLLVER	735.1 (3)	649.5	732.1(3)	3783.7	0.17
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC222533	glucose-1-phosphate adenyltransferase	SFFEANLALAEQPPR	845.9 (2)	150.2	845.9 (2)	noise (20- 30)	5.01
1D gel ICAT 1	fraction no.8 yccat060404fr8ht, lt	TC222544	glutathione S-transferase GST 10	YICDQYADSGNQALFGK	1061 (2)	273.3	1065.5 (2)	608.1	0.45
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC222544	glutathione S-transferase GST 10	VAACLEK	537.7 (2)	779.9	542.2 (2)	1625.4	0.48
unlabeled peptide 1	C01171-74yc	TC222916	ribosomal protein L12.1	LGVTAAAFAPAAVVAAPGA GGGAAEEEEAPVEK	974.7 (3)	321.5	974.7 (3)	1760.2	0.18
unlabeled peptide 1	C01171-74yc	TC222916	ribosomal protein L12.1	ILELGDIAAGLTLEEAR	893 (2)	1326	893 (2)	2637	0.50
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC222916	ribosomal protein L12.1	ILELGDIAAGLTLEEAR	595.6 (3)	86.3	595.6 (3)	316.4	0.27
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC222916	ribosomal protein L12.1	ILELGDIAAGLTLEEAR	892.9 (2)	164.2	892.9 (2)	573.7	0.29
unlabeled peptide 1	C01171-74yc	TC223042	peroxiredoxin-like protein	LPDATLSYFDTSPPDGELK	1029 (2)	436.1	1029 (2)	1807.3	0.24
unlabeled peptide 1	C01171-74yc	TC223042	peroxiredoxin-like protein	YALLAEDGVVK	589.8 (2)	642.8	589.8 (2)	1500.2	0.43
unlabeled peptide 1	C01171-74yc	TC223042	peroxiredoxin-like protein	TIAVGDRLPDATLSYFDTS PDGELK	923.9 (3)	525.1	923.9 (3)	720.8	0.73
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223042	peroxiredoxin-like protein	LPDATLSYFDTSPPDGELK	1028.9 (2)	407.1	1028.9 (2)	584.7	0.70
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223112, TC228772	Acyl carrier protein I	EQLALPDGTAITGESK	815.8 (2)	631.6	815.8 (2)	496.9	1.27
1D gel ICAT 1	fraction no. 7 yccat060404fr7ht, lt	TC223168	Magnesium-chelatase subunit chlI	VCGTIDIEK	603.3 (2)	47.2	607.8 (2)	250.9	0.19
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223290	CP12 protein precursor	DSLKETNANDPLEK	787.7 (2)	394.8	787.7 (2)	134.6	2.93
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223290	CP12 protein precursor	QAEETCADDQKGDAAEC AAWDEVEELSATASHAR	1241.7 (3)	719.7	1241.7 (3)	180.5	3.99
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223290	CP12 protein precursor	SSGPATPPEISDK	643.7 (2)	1180.1	643.7 (2)	268	4.40
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223290	CP12 protein precursor	GDAECAA WDEVEELSATA SHAR	816.3 (3)	2173.2	816.3 (3)	396.1	5.49
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC223356	Ribulose bisphosphate carboxylase/oxygenase activase	MSCLFINDLDAGAGR	910.2 (2)	462.1	905.7 (2)	188.3	2.45
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223356	Ribulose bisphosphate carboxylase/oxygenase activase	VPIIVTGNDFSTLYAPLIR	1045.5 (2)	530.4	1045.5 (2)	162	3.27
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223356	Ribulose bisphosphate carboxylase/oxygenase activase	TDGVDEEHVVQLVDTFPGQ SIDFFGALR	1031.5 (3)	611.7	1031.5 (3)	185.1	3.30
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC223356, TC237072	Ribulose bisphosphate carboxylase/oxygenase activase	SFQCELVFAK	700.3 (2)	3729.3	704.9 (2)	397.4	9.38
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC223356, TC237072	Ribulose bisphosphate carboxylase/oxygenase activase	MSCLFINDLDAGAGR	905.9 (2)	2025.4	910.4 (2)	189.4	10.69
unlabeled peptide 1	C01171-74yc	TC223586	ferredoxin [2Fe-2S] 2 - maize	LITPEGEVELQVPDDVYILD FAEEEGIDLPFSCR	1304 (3)	4077.4	1304 (3)	1118.1	3.65
unlabeled peptide 1	C01171-74yc	TC223586	ferredoxin [2Fe-2S] 2 - maize	VVSGSVDQSDQSFLNDNQ VADGWVLTCAAYPTSDVVI ETHKEDLL	1260.9 (4)	5463.2	1260.9 (4)	1185.5	4.61
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223586	ferredoxin [2Fe-2S] 2 - maize	LITPEGEVELQVPDDVYILD FAEEEGIDLPFSCR	1303.9 (3)	3331.3	1303.9 (3)	1232.9	2.70

unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC223586	ferredoxin [2Fe-2S] 2 - maize	VVSGSVDQSDQSFLNDNQ VADGWVLTCAAAYPTSDVVI ETHKEDDLL	1680.6 (3)	1737.2	1680.6 (3)	559.4	3.11
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC224103	AX155045 PP001104065R {Physcomitrella	DAVIGAVPESTLVTICIDKYV GGR	867.4 (3)	715.8	864.4 (3)	1729.7	0.41
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC224315	thylakoid lumenal 17.4 kD protein	LCTNTSISPDAR	668.2 (2)	46.2	668.2 (2)	265.9	0.17
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC224607	AF344453_1 AF344453 SET1	FHLHIHR	480.2 (2)	1645.9	480.2 (2)	246.9	6.67
2D icat	low threshold 50mM NH4Cl	TC224642,TC 224643	Fructose-1,6-bisphosphatase	LLYECAPMSFIVEQAGGK	731.7 (3)	459.5	728.7 (3)	134.9	3.41
2D icat	low threshold 100mM NH4Cl	TC224642,TC 224643	Fructose-1,6-bisphosphatase	LLYECAPMSFIVEQAGGK	731.6 (3)	1878.7	728.6 (3)	520.9	3.61
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC224643	Fructose-1,6-bisphosphatase, chloroplast precursor	IYAFNEGNYALWDDK	910.3 (2)	354.1	910.3 (2)	noise (20- 30)	11.80
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC224643	Fructose-1,6-bisphosphatase	KLDVVSNEVFSNCLK	961.9 (2)	474.1	966.4 (2)	155.5	3.05
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC224643, TC224642	Fructose-1,6-bisphosphatase	LLYECAPMSFIVEQAGGK	1092.5 (2)	1767.5	1097 (2)	380.9	4.64
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC224643, TC224642	Fructose-1,6-bisphosphatase	LLYECAPMSFIVEQAGGK	728.7 (3)	4043.6	731.7 (3)	866.2	4.67
1D gel ICAT 1	fraction no.8 yccat060404fr8ht, lt	TC225197	ATP-dependent protease proteolytic subunit Cl	IEQCMER	568.6 (2)	53.6	573.1 (2)	178.4	0.30
1D gel ICAT 1	fraction no.8 yccat060404fr8ht, lt	TC225992	glutaredoxin	SAPQCGFSQR	654.7 (2)	207.9	659.2 (2)	736.3	0.28
unlabeled peptide 1	C01171-74yc	TC226641	translational elongation factor TuB	TTLTAALTMVLASVGGSSAP K	630.7 (3)	368	630.7 (3)	2420.7	0.15
unlabeled peptide 1	C01171-74yc	TC226641	translational elongation factor TuB	TTLTAALTMVLASVGGSSAP K	945.5 (2)	211.3	945.5 (2)	1386.2	0.15
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC226641	translational elongation factor TuB	QTDLPFLAVEDVFSITGR	1061.5 (2)	301.7	1061.5 (2)	734.8	0.41
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC227768	Glutamate-1-semialdehyde 2,1- aminomutase	FVNSGTEACMGALR	842.3 (2)	335.1	846.8 (2)	840.5	0.40
unlabeled peptide 1	C01171-74yc	TC228810	Thioredoxin M-	VNTDDSPNVASTYGIR	855.4 (2)	511.9	855.4 (2)	2839.1	0.18
unlabeled peptide 1	C01171-74yc	TC228810	Thioredoxin M-	SIPTVLIFK	509.8 (2)	235.8	509.8 (2)	968.1	0.24
unlabeled peptide 1	C01171-74yc	TC228810	Thioredoxin M-	MIAPVIDELAK	600.8 (2)	1065.7	600.8 (2)	3057.5	0.35
1D gel ICAT 1	fraction no. 7 yc1dgel015, 016	TC229733	AT5g36790/f5h8_20	ENPGCLFIATNR	781.8 (2)	503.3	786.3(2)	214.3	2.35
1D gel ICAT 1	fraction no. 7 yc1dgel015, 016	TC229733	AT5g36790/f5h8_20	VQYGTLCIR	640.7 (2)	545.3	645.2 (2)	190.9	2.86
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC232071	ADP-glucose pyrophosphorylase	LIDIPVSNCLNSNISKIYVLT QFNASLNR	1192.3 (3)	184.7	1189.3 (3)	111.9	1.65
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC232071	ADP-glucose pyrophosphorylase		858 (4)	288.7	855.7 (4)	166.1	1.74
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC232071	ADP-glucose pyrophosphorylase	SSQTCLDPDASTSVLGIILG GGAGTRLYPLTK	1143.7 (3)	529.9	1140.7 (3)	292.8	1.81
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233304	oxygen evolving enhancer protein 1 precursor	GTGTANQCPTIDGGVESFP FK	785.4 (3)	112.7	788.4 (3)	3269.4	0.03
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233304	oxygen evolving enhancer protein 1 precursor	GTGTANQCPTIDGGVESFP FK	1177.5 (2)	63.8	1182 (2)	1819.3	0.04
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233304	oxygen evolving enhancer protein 1 precursor	LCLEPTSFTVK	733.3 (2)	205.4	737.8 (2)	5720.7	0.04

1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233304	oxygen evolving enhancer protein 1 precursor	KLCLEPTSFTVK	532.1 (3)	104.8	535.1 (3)	2763.4	0.04
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC233304	oxygen evolving enhancer protein 1	KLCLEPTSFTVK	801.8 (2)	222.5	797.3 (2)	855.4	0.26
1D gel ICAT 1	fraction no. 1 yc1dgel001, 002	TC233444	pyruvate,orthophosphate dikinase {Zea mays},	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1383.4 (3)	105.3	1386.4 (3)	695	0.15
2D icat	High threshold 100mM NH4Cl, yc2dtest157	TC233444	pyruvate,orthophosphate dikinase	NNGAQGIGLCR	670.1 (2)	361.2	665.6 (2)	2457.3	0.15
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC233444	pyruvate,orthophosphate dikinase	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1039.6 (4)	2906	1037.6 (4)	16711.3	0.17
2D icat	High threshold 300mM NH4Cl, yc2dtest161	TC233444	pyruvate,orthophosphate dikinase	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1039.7 (4)	1396.9	1037.7 (4)	7445.4	0.19
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC233444	pyruvate,orthophosphate dikinase	NLMPQAYDELVENCNILES HYK	954.1 (3)	355.4	951.1 (3)	1842.1	0.19
2D icat	High threshold 100mM NH4Cl, yc2dtest157	TC233444	pyruvate,orthophosphate dikinase	NLMPQAYDELVENCNILES HYK	954.1 (3)	262.9	951.1 (3)	1346.7	0.20
2D icat	High threshold 300mM NH4Cl, yc2dtest161	TC233444	pyruvate,orthophosphate dikinase	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1383.3 (3)	961.9	1386.3 (3)	4872.6	0.20
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC233444	pyruvate,orthophosphate dikinase	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1386.2 (3)	2032	1383.2 (3)	10288.3	0.20
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC233444	pyruvate,orthophosphate dikinase	VGICGEHGGEPSSVAFFAK	1064.8 (2)	1169.3	1060.3 (2)	5642.5	0.21
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC233444	pyruvate,orthophosphate dikinase	VGICGEHGGEPSSVAFFAK	710.3 (3)	4388.3	707.3 (3)	18117.5	0.24
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	EMQDIEFTVQENR	820.3 (2)	524.8	820.3 (2)	8480.8	0.06
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase		1237.2 (2)	239.8	1237.2 (2)	3633.2	0.07
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	QPLSPPALSGDLGTFMAWV DDVR	825.2 (3)	407.9	825.2 (3)	6102.9	0.07
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase		1070.1 (2)	151	1070.1 (2)	2069.9	0.07
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	AETSPEDVGGMHAAVGILTER	714.4 (3)	2708.4	714.4 (3)	30733.7	0.09
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	IAVDMVNEGLVEPR	771.8(2)	2798.3	771.8(2)	23925.3	0.12
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1326.7 (3)	414.5	1326.7 (3)	3200.6	0.13
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	FLDMFGNVVMDIPR	827.8 (2)	2332.8	827.8 (2)	17995.3	0.13
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	VLANADTPDDALTAR	772.3 (2)	2204.4	772.3 (2)	13143	0.17
unlabeled peptide 1	C01171-74yc	TC233444	pyruvate,orthophosphate dikinase	VGTMIEIPR	508.7 (2)	1020.2	508.7 (2)	5385.9	0.19
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	LLDPPLHEFLPEGNIEDIVSE LCAETGANQEDALAR	1326.5 (3)	1429.1	1326.5 (3)	6851.1	0.21
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	AVVDAAPIQTTK	607.7 (2)	540.2	607.7 (2)	1916.9	0.28
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	LYGEFLVNAQGEDVVAGIR	1025.9 (2)	572.4	1025.9 (2)	1982.4	0.29
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	FIPVYLAQGILQHDPFEVLD QR	867.1 (3)	2770.7	867.1 (3)	9317.8	0.30
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	AGLDYVSCSPFR	686.8 (2)	1199	686.8 (2)	3916.6	0.31
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	SINQITGLR	501.7 (2)	1134.1	501.7 (2)	3322	0.34
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233444	pyruvate,orthophosphate dikinase	VLANADTPDDALTAR	772.3 (2)	2228.3	772.3 (2)	5579.3	0.40

1D gel ICAT 1	fraction no. 3 yc1dgel005, 006	TC233714	ribulose bisphosphate carboxylase	GHYLNATAGTCEEMIK	565 (3)	3057.3	659 (3)	297.6	10.27
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC233714	ribulose bisphosphate carboxylase	GHYLNATAGTCEEMIK	656 (3)	4912.1	659 (2)	424	11.59
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC233714	ribulose bisphosphate carboxylase	GHYLNATAGTCEEMIKR	708 (3)	4326.1	711 (3)	358.5	12.07
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC233714	ribulose bisphosphate carboxylase	GHYLNATAGTCEEMIK	983.4 (2)	347	987.9 (2)	25.4	13.66
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC233714	RuBisCO large subunit	GHYLNATAGTCEEMIKR	711 (3)	7088.2	708 (3)	2690.9	2.63
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC233714	RuBisCO large subunit	GHYLNATAGTCEEMIKR	1065.8 (2)	1740.5	1061.3 (2)	617.1	2.82
2D icat	High threshold 300mM NH4Cl, yc2dtest161	TC233714	RuBisCO large subunit	ELGVPIVMHDYLTGGFTAN TTLSHYCR	1078.2 (3)	5149.4	1075.2 (2)	1803.5	2.86
2D icat	High threshold 100mM NH4Cl, yc2dtest157	TC233714	RuBisCO large subunit	CSDVSSTIDASLTMVMGDD MVK VTPQLGVPPEEAGAAVAE	714.2 (2)	1218.8	709.7 (2)	415.9	2.93
unlabeled peptide 1	C01171-74yc	TC233714	Ribulose bisphosphate carboxylase large chain precursor	SSTGTWTTVWTDGLTSLD R	1291.7 (3)	15706.6	1291.7 (3)	4745.3	3.31
unlabeled peptide 1	C01171-74yc	TC233714	Ribulose bisphosphate carboxylase large chain precursor	TFQGPPHGIQVER	733.9 (2)	1433.9	733.9 (2)	400.8	3.58
unlabeled peptide 1	C01171-74yc	TC233714	Ribulose bisphosphate carboxylase large chain precursor	TFQGPPHGIQVER	489.5 (3)	10006.8	489.5 (3)	2563.2	3.90
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233714	Ribulose bisphosphate carboxylase large chain precursor	FVFCAEAIYK	624.7 (2)	8551.6	624.7 (2)	2134.9	4.01
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233714	Ribulose bisphosphate carboxylase large chain precursor	TFQGPPHGIQVER	489.5 (2)	22953.8	489.5 (2)	5358	4.28
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233714	Ribulose bisphosphate carboxylase large chain precursor	DTDILAAFR	511.6 (2)	19892.6	511.6 (2)	4604.8	4.32
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233714	Ribulose bisphosphate carboxylase large chain precursor	VALEACVQAR	559.2 (2)	16665.8	559.2 (2)	3727.8	4.47
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233714	Ribulose bisphosphate carboxylase large chain precursor	LTYYPPEYETK	704.7 (2)	23967	704.7 (2)	4050.9	5.92
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC233905	TC233905	TFEVCFEQMK	749.7 (2)	192.1	745.2 (2)	1598.4	0.12
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC233905	TC233905	IYGGSVNAANCAELAK	965.8 (2)	168.5	961.3 (2)	1219.3	0.14
1D gel ICAT 1	fraction no.9 yccat060404fr8ht	TC233907	Triosephosphate isomerase	VIACIGELLEER	786.9 (2)	326.8	791.4 (2)	1995.1	0.16
unlabeled peptide 1	C01171-74yc	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	IEVSAQNVWIGK	672.8 (2)	1475.2	672.8 (2)	5205.8	0.28
unlabeled peptide 1	C01171-74yc	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	FFVGGNWK	478.2 (2)	644.1	478.2 (2)	2061.8	0.31
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	AFADSISNWADVVIAYEPV WAIGTGK	1391.2 (2)	67.4	1391.2 (2)	435.3	0.15
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	IEVSAQNVWIGK	672.8 (2)	175.7	672.8 (2)	1079.8	0.16
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	AFADSISNWADVVIAYEPV WAIGTGK	927.8 (3)	176.6	927.8 (3)	1027.9	0.17
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	VATPEQAQEVHAAVR	803.8 (2)	54.1	803.8 (2)	284.5	0.19

unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	KEDIDGFLVGGASLK	775.3 (2)	277.3	775.3 (2)	1179.5	0.24
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC233907	Triosephosphate isomerase, chloroplast precursor (rye)	FFVGGNWK	478.1 (2)	462.7	478.1 (2)	1742.3	0.27
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233912	Triosephosphate isomerase	TFEVCFEQMK	753.2 (2)	1009.7	757.7 (2)	10684.4	0.09
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233912	Triosephosphate isomerase	IYGGSVNAANCAELAKK	684.1 (3)	198	687.1 (3)	1948.1	0.10
1D gel ICAT 1	fraction no.9 yccat060404fr8ht, lt	TC233912	Triosephosphate isomerase	IYGGSVNAANCAELAK	961.4 (2)	57.6	965.9 (2)	564.1	0.10
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233912	Triosephosphate isomerase	TFEVCFEQMK	745.2 (2)	1868.2	749.7 (2)	18208.3	0.10
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC233912	Triosephosphate isomerase	IYGGSVNAANCAELAK	786.8 (2)	6756.3	791.3 (2)	31920.6	0.21
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC233912	Triosephosphate isomerase	VIACIGELLEER	791.2 (2)	1259.5	786.7 (2)	6221.6	0.20
unlabeled peptide 1	C01171-74yc	TC233912	Triosephosphate isomerase, chloroplast precursor	DWLTTNISPDVASSTR	882.4 (2)	1778.9	882.4 (2)	9124	0.19
unlabeled peptide 1	C01171-74yc	TC234038	Ribulose bisphosphate carboxylase small chain B	LPMFGCNDATQVYK	822.8 (2)	2116.2	822.8 (2)	1288.1	1.64
1D gel ICAT 1	fraction no.9 yccat060404fr8ht, lt	TC234038, TC234963	Ribulose bisphosphate carboxylase small chain	LPMFGCNDATQVYKELQEA IK	876.1 (3)	980.8	879.1 (3)	56.2	17.45
1D gel ICAT 1	fraction no.9 yccat060404fr8ht, lt	TC234038, TC234963	Ribulose bisphosphate carboxylase small chain	LPMFGCNDATQVYKELQEA IK	881.4 (3)	942.5	884.4 (3)	48.7	19.35
1D gel ICAT 1	fraction no.9 yccat060404fr8ht	TC234038, TC234963	Ribulose bisphosphate carboxylase small chain	LPMFGCNDATQVYK	915.8 (2)	6684	920.3(2)	166.8	40.07
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234038,TC234963	Ribulose bisphosphate carboxylase small chain B	QTQCVSFIAYKPPGSD	899.8 (2)	11479	899.8 (2)	2514	4.57
1D gel ICAT 1	fraction no.9 yccat060404fr8ht	TC234040	Ribulose bisphosphate carboxylase small chain 2	QTQCVSFIAYKPPGSE	991.9 (2)	4257.6	996.4 (2)	280.9	15.16
1D gel ICAT 1	fraction no.9 yccat060404fr8ht	TC234040	Ribulose bisphosphate carboxylase small chain 2	LPMFGCTDATQVYK	909.3 (2)	3125	913.8 (2)	187.1	16.70
1D gel ICAT 1	fraction no.9 yccat060404fr8ht	TC234040	Ribulose bisphosphate carboxylase small chain 2	LPMFGCTDATQVYK	901.3 (2)	7123.8	905.8 (2)	400.4	17.79
2D icat	High threshold 50mM NH4Cl, yc2dtest155	TC234040	rubisco small subunit	QTQCVSFIAYKPPGSE	996.3 (2)	3061.8	991.8 (2)	860.9	3.56
2D icat	High threshold 50mM NH4Cl, yc2dtest155	TC234040	rubisco small subunit	QTQCVSFIAYKPPGSE	664.7 (3)	2409.2	661.7 (3)	653.2	3.69
unlabeled peptide 1	C01171-74yc	TC234040	rubisco small subunit	LPMFGCTDATQVYKELQEA IAAYPDAFHR	836.9 (4)	611.5	836.9 (4)	267	2.29
unlabeled peptide 1	C01171-74yc	TC234040	rubisco small subunit	ELQEIAIAYPDAFHR	578 (3)	2442.7	578 (3)	1049.9	2.33
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234040	rubisco small subunit	ELQEIAIAYPDAFHR	577.9 (3)	14129.7	577.9 (3)	2350.2	6.01
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234040	rubisco small subunit	QTQCVSFIAYKPPGSE	906.8 (2)	7732.5	906.8 (2)	1024.2	7.55
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234040	rubisco small subunit	ELQEIAIAYPDAFHR	866.3 (2)	3460.4	866.3 (2)	426.5	8.11
1D gel ICAT 1	fraction no. 2 yc1dgel003, 004	TC234252	lipoxygenase 2	THCCVEPYIIAANR	682.4 (3)	33.6	688.4 (3)	353.3	0.10
1D gel ICAT 1	fraction no. 3 yc1dgel005, 006	TC234252	lipoxygenase 2	CGAGIVPYELLKPFKPGVGT GR	630.3 (4)	262	632.5 (4)	2640.2	0.10
1D gel ICAT 1	fraction no. 3 yc1dgel005, 006	TC234252	lipoxygenase 2	MKEIEGFIDECNNLNDLK	785.1 (3)	230.6	788.1 (3)	2073.8	0.11
unlabeled peptide 1	C01171-74yc	TC234252	lipoxygenase 2c	AFWDEVRR	462.2 (2)	145.5	462.2 (2)	789	0.18
unlabeled peptide 1	C01171-74yc	TC234252	lipoxygenase 2c	EALINADGIIIESFWPGK	995.6 (2)	181.5	995.6 (2)	942.8	0.19
unlabeled peptide 1	C01171-74yc	TC234252	lipoxygenase 2c	GEDGELELTIK	602.7 (2)	488	602.7 (2)	2041.5	0.24
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234252	lipoxygenase 2c	EALINADGIIIESFWPGK	995.5 (3)	150.2	995.5 (3)	752.3	0.20
2D icat	low threshold 50mM NH4Cl, yc2dtest169	TC234252	lipoxygenase 2	EIEGFIDECNNLNDLK	1052 (2)	35.9	1047.5 (2)	255.9	0.14

2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC234252	lipoxygenase 2	MKEIEGFIDECNNNLDLK	788 (3)	45.8	785 (3)	324.4	0.14
2D icat	low threshold 200mM NH4Cl, ye2dtest159, 173 (low thresh)	TC234345	thioredoxin peroxidase	TLQALQYVQENPDEVCPAG WKPGER	1022.7 (3)	120.8	1019.7 (3)	253.3	0.48
unlabeled peptide 1	C01171-74yc	TC234345	thioredoxin peroxidase	ASVVDLPLVGNK	664.3 (2)	760.9	664.3 (2)	1807.2	0.42
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234345, TC234346	thioredoxin peroxidase	AFGVLIPIDQGIALR	735.8 (2)	1970.6	735.8 (2)	3949.2	0.50
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234345, TC234346	thioredoxin peroxidase	TLQALQYVQENPDEVCPAG WKPGER	962.8 (3)	3165.8	962.8 (3)	3623.9	0.87
unlabeled peptide 1	C01171-74yc	TC234346	2-cys peroxiredoxin-like protein	YPLISDVTK	518.7 (2)	836.1	518.7 (2)	6804.4	0.12
unlabeled peptide 1	C01171-74yc	TC234346	2-cys peroxiredoxin-like protein	AGGVDDLPLVGNK	628.3 (2)	2661.6	628.3 (2)	5520.2	0.48
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234346	thioredoxin peroxidase	APDFEAEAVFDQEFINVK	690.6 (3)	757.9	690.6 (3)	1533.5	0.49
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234346	thioredoxin peroxidase	SGGLGDLKYPLISDVTK	588.6 (3)	848.7	588.6 (3)	1527.8	0.56
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234346	thioredoxin peroxidase	AGGVDDLPLVGNK	628.2 (2)	1383	628.2 (2)	2014.3	0.69
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	WPGAAAAGSGDPLEDFCK DNPETDECK	1093.7 (3)	542.2	1099.7 (3)	2768	0.20
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	CSDVSCTIDASLSMVMGDD MVK	921.5 (3)	669.2	927.5 (3)	3010.1	0.22
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	GADIPTYVVGVNEG DYDHS VADIISNASCTTNCLAPFVK	1504.7 (3)	745.1	1510.7 (3)	3337.9	0.22
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	WPGAAAAGSGDPLEDFCK	1010.4 (2)	810.6	1014.9(2)	3420.4	0.24
2D icat	low threshold 200mM NH4Cl, ye2dtest159, 173 (low thresh)	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	CWHGREDSPIDVVVVNDSD GGVV	658.8 (4)	91	656.5 (4)	478.9	0.19
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	WPGAAAAGSGDPLEDFCK DNPETDECK	1099.5 (3)	616.1	1093.5 (3)	2904.1	0.21
2D icat	High threshold 300mM NH4Cl, yc2dtest161	TC234510	glyceraldehyde-3-phosphate dehydrogenase B	CWHGREDSPIDVVVVNDSD GGVV	878.4 (3)	488.1	875.4 (3)	2239.7	0.22
unlabeled peptide 1	C01171-74yc	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	IVDDTTISVDGKPIVVSSR	1052.1 (2)	490	1052.1 (2)	1619.9	0.30
unlabeled peptide 1	C01171-74yc	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	TGITADDVNAAFR	676.3 (2)	3806.3	676.3 (2)	9617.3	0.40
unlabeled peptide 1	C01171-74yc	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	YDSMLGTFK	531.7 (2)	3159.8	531.7 (2)	7158.9	0.44
unlabeled peptide 1	C01171-74yc	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	VVAWYDNEWGYSQR	887.4 (2)	2034.9	887.4 (2)	4305.9	0.47
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	VPTPNVSVVDLVINTVK	897.9 (2)	1524.8	897.9 (2)	5466.4	0.28
unlabeled peptide 2	ycmz50ugB2ht, It ycmz50ugM1ht, It	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	ILDEEFGIVK	582.2 (2)	1449.4	582.2 (2)	4736.2	0.31

unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	IVDDTTISVDGKPITVSSR	701.7 (2)	1614.2	701.7 (2)	4514.3	0.36
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234510	glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating)B	TGITADDVNAAFR	676.2 (2)	972.6	676.2 (2)	2583.5	0.38
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC234846	MAIZE NADP-dependent malic enzyme	ILGLGDLGCQGMGIPVGK	978.4 (2)	1168.7	982.9 (2)	88	13.28
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC234846	MAIZE NADP-dependent malic enzyme	QTNAPIEECR	694.2 (2)	238.5	699.2 (2)	15.9	15.00
2D icat	High threshold 100mM NH4Cl, yc2dtest157	TC234846	MAIZE NADP-dependent malic enzyme	LLIDNVVELLPFVYTPTVGE ACQK	966.8 (3)	1993.5	963.8 (3)	521.3	3.82
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC234846	MAIZE NADP-dependent malic enzyme	NIQVICVTDGER	792.2 (2)	3212.3	787.7 (2)	833	3.86
2D icat	low threshold 200mM NH4Cl,yc2dtest159, 173 (low thresh)	TC234846	MAIZE NADP-dependent malic enzyme	NIQVICVTDGERILGLGDLG CQGMGIPVGK	1177 (3)	483.5	1171 (3)	123.6	3.91
2D icat	High threshold 50mM NH4Cl, yc2dtest155	TC234846	MAIZE NADP-dependent malic enzyme	YAENCMYTPVYR	873.7 (2)	2707.3	869.2 (2)	738.3	3.67
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC234846	MAIZE NADP-dependent malic enzyme	YAENCMYTPVYR	582.9 (3)	1248	579.9 (2)	339.5	3.68
2D icat	High threshold 50mM NH4Cl, yc2dtest155	TC234846	MAIZE NADP-dependent malic enzyme	NIQVICVTDGER	792.2 (2)	3212.3	787.7 (2)	833	3.86
unlabeled peptide 1	C01171-74yc	TC234846	MAIZE NADP-dependent malic enzyme	YIAMMNLQETDER	807.8 (2)	1323	807.8 (2)	685.5	1.93
unlabeled peptide 1	C01171-74yc	TC234846	MAIZE NADP-dependent malic enzyme	SIFASGSPFAPVEYEGK	893.9 (2)	3004.3	893.9 (2)	1456.3	2.06
unlabeled peptide 1	C01171-74yc	TC234846	MAIZE NADP-dependent malic enzyme	VLIQFEDFANHNAFDLLEK	755.5 (3)	2503.4	755.5 (3)	1020.5	2.45
unlabeled peptide 1	C01171-74yc	TC234846	MAIZE NADP-dependent malic enzyme	TFVPGQSNNAYIFPGLGLG LVISGAVR	917 (3)	1991.6	917 (3)	635	3.14
unlabeled peptide 1	C01171-74yc	TC234846	MAIZE NADP-dependent malic enzyme	GLLPPAVLSQELQIK	804 (2)	1513	804 (2)	372.4	4.06
unlabeled peptide 1	C01171-74yc	TC234846	MAIZE NADP-dependent malic enzyme	ATGEEYDELIEEFMAAVK	1031.5 (2)	1178.9	1031.5 (2)	167.4	7.04
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234846	MAIZE NADP-dependent malic enzyme	LLIDNVVELLPFVYTPTVGE ACQK	907.2 (3)	2824.1	907.2 (3)	806.3	3.50
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234846	MAIZE NADP-dependent malic enzyme	VLIQFEDFANHNAFDLLEK	755.4 (3)	4612.6	755.4 (3)	1085.4	4.25
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234846	MAIZE NADP-dependent malic enzyme	TFVPGQSNNAYIFPGLGLG LVISGAVR	1374.7 (2)	343.9	1374.7 (2)	65.7	5.23
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234846	MAIZE NADP-dependent malic enzyme	TLYDAVQSIKPTVLIGTSGV GR	759.5 (3)	7474.8	759.5 (3)	1396.2	5.35
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234846	MAIZE NADP-dependent malic enzyme	SIFASGSPFAPVEYEGK	893.8 (2)	5139.5	893.8 (2)	799.9	6.43
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234846	MAIZE NADP-dependent malic enzyme	GLAFTEEER	526.7 (2)	3421.2	526.7 (2)	412.7	8.29
1D gel ICAT 1	fraction no.8 yccat060404fr8ht	TC234954	ribulose-5-phosphate-3-epimerase	AGADIVSVHCEQTSTIHLHR	601.4 (4)	2171.4	603.7(4)	345.2	6.29

unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC234954	ribulose-5-phosphate-3-epimerase	GVNPWIEVDGGVGPK	762.8 (2)	817.4	762.8 (2)	noise (20-30)	27.25
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC234963	RuBisCO sm	VIGFDNIKQTQCVSFIAYKP PGSD	716.8 (4)	953.4	714.8 (4)	305.7	3.12
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC234963	RuBisCO sm	VIGFDNIKQTQCVSFIAYKP PGSD	955.4 (3)	12725.3	952.4 (3)	4027.7	3.16
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC234963	RuBisCO sm	LPMFGCNDATQVYKELQEA IK	879.1 (3)	8415.7	876.1 (3)	2328.7	3.61
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC234963	RuBisCO sm	ENSTSPCYDGR	814.8 (2)	395.1	810.3 (2)	103.4	3.82
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC234963	RuBisCO sm	QTQCVSFIAYKPPGSD	989.3 (2)	2439.7	984.8 (2)	628.4	3.88
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC235000	thioredoxin/transketolase fusion protein	NLSQQCLNALANVVPGLIG GSADLASSNMTHLLK	1186.7 (3)	4373.1	1189.7 (3)	618	7.08
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC235000	thioredoxin/transketolase fusion protein	NLSQQCLNALANVVPGLIG GSADLASSNMTHLLK	1181.3 (3)	5710.9	1184.3 (3)	784	7.28
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC235000	thioredoxin/transketolase fusion protein	NLSQQCLNALANVVPGLIG GSADLASSNMTHLLK	1184.2 (3)	2386.3	1181.2 (3)	749.2	3.19
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC235000	thioredoxin/transketolase fusion protein	NLSQQCLNALANVVPGLIG GSADLASSNMTHLLK	1189.5 (3)	687	1186.5 (3)	210.3	3.27
unlabeled peptide 1	C01171-74yc	TC235000	thioredoxin/transketolase fusion protein	ISIEAGSTLGWQK	695.8 (2)	955.6	695.8 (2)	329.1	2.90
unlabeled peptide 1	C01171-74yc	TC235000	thioredoxin/transketolase fusion protein	TPGHPENFETPGVEVTTGP LGQGIANAVGLALAEK	1158.4 (3)	5659.7	1158.4 (3)	1444.2	3.92
unlabeled peptide 1	C01171-74yc	TC235000	thioredoxin/transketolase fusion protein	NPYWFNR	499.2 (2)	1016.3	499.2 (2)	251.6	4.04
unlabeled peptide 1	C01171-74yc	TC235000	thioredoxin/transketolase fusion protein	TPGHPENFETPGVEVTTGP LGQGIANAVGLALAEK	869.3 (4)	2728.5	869.3 (4)	636.9	4.28
unlabeled peptide 1	C01171-74yc	TC235000	thioredoxin/transketolase fusion protein	SIITGELPTGWVDALPK	899.4 (2)	6017.8	899.4 (2)	1346.9	4.47
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235000	thioredoxin/transketolase fusion protein	TPGHPENFETPGVEVTTGP LGQGIANAVGLALAEK	1158.5 (3)	5150.4	1158.5 (3)	1047	4.92
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235000	thioredoxin/transketolase fusion protein	SIITGELPTGWVDALPK	899.4 (2)	4828.4	899.4 (2)	933	5.18
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235000	thioredoxin/transketolase fusion protein	NPYWFNR	499.1 (2)	1903.6	499.1 (2)	287.9	6.61
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235000	thioredoxin/transketolase fusion protein	LPHLPGTSIEGVEK	493.2 (3)	3101	493.2 (3)	448	6.92
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235000	thioredoxin/transketolase fusion protein	VTTTIGFGSPNK	611.7 (2)	2941.2	611.7 (2)	421.9	6.97
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235205	photosystem II oxygen-evolving complex	TADGDEGGKHQLIAATVSD GK	691 (3)	43.8	691 (3)	204.3	0.21
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235205	photosystem II oxygen-evolving complex	TIADYGSPEEFLSQVDYLLG R	1187.6 (2)	86.1	1187.6 (2)	348.1	0.25
unlabeled peptide 1	C01171-74yc	TC235206	Oxygen-evolving enhancer protein 2	AITEYGSPEEFLSQVDYLLG K	1180.6(2)	709.2	1180.6(2)	648.5	1.09
unlabeled peptide 1	C01171-74yc	TC235206	Oxygen-evolving enhancer protein 2	NTDFISYVGDGFK	732.3 (2)	653.6	732.3 (2)	579.6	1.13

unlabeled peptide 1	C01171-74yc	TC235206	Oxygen-evolving enhancer protein 2	QYYSITVLTR	622.8 (2)	1191.8	622.8 (2)	846.4	1.41
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235206	Oxygen-evolving enhancer protein 2	AITEYGSPEEFLSQVDYLLGK	1180.5 (2)	158.7	1180.5 (2)	600	0.26
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC235206	Oxygen-evolving enhancer protein 2	TDSEGGFETDAVATANVLE SSTPVVDGK	933.1 (3)	154.1	933.1 (3)	538.8	0.29
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC235372	ATP-dependent clp protease ATP- binding subunit clpA	GELQCIGATTLDEYRK	678.6 (3)	308	675.6 (3)	768	0.40
unlabeled peptide 1	C01171-74yc	TC235457	nucleic acid-binding protein B	VYVGNLPYDVDSEGLAQIF DQAGVVEVAEVIYNR	1248.6 (3)	521.1	1248.6 (3)	1053.9	0.49
unlabeled peptide 1	C01171-74yc	TC235457	nucleic acid-binding protein B	LVQLFSEHGEVVDK	558 (3)	637.1	558 (3)	1060	0.60
1D gel ICAT 1	fraction no.8 ycat060404fr8ht, lt	TC235467	pollen signalling protein with adenylyl cyclase activity	CDGHPLAIKVIAGILR	479.3 (4)	204.8	481.6 (4)	189.3	1.08
unlabeled peptide 1	C01171-74yc	TC235613	ARATH Protein At2g37660	GGRPEFYFEEGSYPEQVD WIGQK	907.2 (3)	423.9	907.2 (3)	1632.8	0.26
unlabeled peptide 1	C01171-74yc	TC235613	ARATH Protein At2g37660	IGGGDDVFVGDIRDPESIA AIEGIDALIILTSAPVK	1246.1 (3)	932.5	1246.1 (3)	2076	0.45
unlabeled peptide 1	C01171-74yc	TC235613	ARATH Protein At2g37660	IGGGDDVFVGDIRDPESIA AIEGIDALIILTSAPVK	934.9 (4)	506.5	934.9 (4)	1109	0.46
unlabeled peptide 1	C01171-74yc	TC235785	dnaK-type molecular chaperone	IVDWLAGNFK	582.3 (2)	102.6	582.3 (2)	655.6	0.16
unlabeled peptide 1	C01171-74yc	TC236410	Ferredoxin-dependent glutamate synthase, chloroplast precursor(Fd- GOGAT).	LIKPVNFLSSTIMDNVLR	764.5 (3)	noise (30)	764.5 (3)	968.8	0.03
unlabeled peptide 1	C01171-74yc	TC236410	Ferredoxin-dependent glutamate synthase, chloroplast precursor(Fd- GOGAT).	FAQVTNPAIDPLR	721.9 (2)	45.3	721.9 (2)	326.9	0.14
unlabeled peptide 1	C01171-74yc	TC236410	Ferredoxin-dependent glutamate synthase, chloroplast precursor(Fd- GOGAT).	SPAELMILVPEAYK	816.9 (2)	246.6	816.9 (2)	521.4	0.47
unlabeled peptide 1	C01171-74yc	TC236532	Adenylate kinase, chloroplast	YSPPEEEIASR	696.8 (2)	1173.7	696.8 (2)	3315.2	0.35
unlabeled peptide 1	C01171-74yc	TC236532	Adenylate kinase, chloroplast	IDELLSILEK	615.8 (2)	1890.8	615.8 (2)	4637.7	0.41
unlabeled peptide 1	C01171-74yc	TC236532	Adenylate kinase, chloroplast	GQLVPDEIVVNMVK	771.3 (2)	3423.6	771.3 (2)	4755.5	0.72
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC236532,TC 236534	Adenylate kinase, chloroplast	LETYYQNIESLLSTYENIIVK	1267.6 (2)	98.6	1267.6 (2)	489.6	0.20
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC236532,TC 236534	Adenylate kinase, chloroplast	YSPPEEEIASR	696.7 (2)	532.3	696.7 (2)	1819.3	0.29
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC236532,TC 236534	Adenylate kinase, chloroplast	YQLAHISAGDLLR	486.6 (3)	819	486.6 (3)	2142.6	0.38
1D gel ICAT 1	fraction no.10 ycat060404fr10ht, lt	TC236586	AAK82497.1 AY048234 At2g24020/T29E15.22	ELAATEIDGYCEGELIK	1041.5 (2)	123.1	1046 (2)	402.7	0.31
unlabeled peptide 1	C01171-74yc	TC236626	nucleic acid-binding protein	IYVGNLPWQVDDSR	831.9 (2)	982	831.9 (2)	2763.9	0.36
unlabeled peptide 1	C01171-74yc	TC236626	nucleic acid-binding protein	GFGFVTMASQDELDDAIAA LDGQSLDGR	967.6 (3)	971.6	967.6 (3)	1549.6	0.63
unlabeled peptide 1	C01171-74yc	TC236626	nucleic acid-binding protein	LAQLFDQAGVVEVAEVIYN R	1118.1 (2)	563.1	1118.1 (2)	822	0.69
unlabeled peptide 1	C01171-74yc	TC236626	nucleic acid-binding protein	VYVGNLPYDVDSEGLAQIF DQAGVVEVAEVIYNR	813.9 (2)	1450.9	813.9 (2)	2043.6	0.71
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC236626	nucleic acid-binding protein	IYVGNLPWQVDDSR	831.8 (2)	622.5	831.8 (2)	1363.5	0.46
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC236626	nucleic acid-binding protein	LAQLFDQAGVVEVAEVIYN R	745.7 (3)	655.4	745.7 (3)	1272.8	0.51

unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC236626	nucleic acid-binding protein	LAQLFDQAGVVEVAEVIYN R	1118 (2)	211.3	1118 (2)	405.1	0.52
1D gel ICAT 1	fraction no. 4 yc1dgel008, 009	TC236897	SOLUBLE STARCH SYNTHASE	SGGLGDVCGSLPVALAAR	935.9 (2)	229.5	940.4 (2)	69.5	3.30
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC237165	plastid-lipid associated protein PAP3	CLVDTVYGSDLGFR	886.8 (2)	noise (30)	891.3 (2)	576.7	0.05
unlabeled peptide 1	C01171-74yc	TC237182	Superoxide dismutase	HAGDLGNIVANAEGIAEATI VDTQIPLTGPNSVVGR	893.6 (4)	2126.8	893.6 (4)	3638.5	0.58
unlabeled peptide 1	C01171-74yc	TC237182	Superoxide dismutase	HAGDLGNIVANAEGIAEATI VDTQIPLTGPNSVVGR	1191.3 (3)	4389.4	1191.3 (3)	7265	0.60
unlabeled peptide 1	C01171-74yc	TC237182	Superoxide dismutase	GASEVEGVVTLTQDDDGPT TVNVR	1230.7 (2)	2037.6	1230.7 (2)	2084.4	0.98
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237182	Superoxide dismutase	HAGDLGNIVANAEGIAEATI VDTQIPLTGPNSVVGR	1191 (3)	1582.7	1191 (3)	4822.2	0.33
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237182	Superoxide dismutase	AGDLGNIVANAEGIAEATI VDTQIPLTGPNSVVGR	893.6 (4)	791.3	893.6 (4)	2397.7	0.33
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237182	Superoxide dismutase	AFVVHELEDDLKGGHELS LSTGNAGGR	717.4 (3)	1167.9	717.4 (3)	3130.9	0.37
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237182	Superoxide dismutase	GASEVEGVVTLTQDDDGPT TVNVR	1230.6 (2)	627.6	1230.6 (2)	1547.1	0.41
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237182	Superoxide dismutase	AFVVHELEDDLKGGHELS	736.8 (2)	1051.3	736.8 (2)	1585.9	0.66
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237182	Superoxide dismutase	AFVVHELEDDLKGGHELS	491.5 (2)	1238.2	491.5 (2)	1849.2	0.67
1D gel ICAT 1	fraction no. 7 yccat060404fr7ht, lt	TC237704	apospory-associated protein C-like	SPHGSEAEIYLFACVTSFK	791.1 (3)	1111.3	794.1 (3)	211.8	5.25
1D gel ICAT 1	fraction no. 7 yccat060404fr7ht, lt	TC237704	apospory-associated protein C-like	EEVTFPGFVDCVYLGAPSE LILDNGLGDK	1109.5 (3)	1550.8	1112.5 (3)	294.5	5.27
1D gel ICAT 1	fraction no. 7 yc1dgel015, 016	TC237704	apospory-associated protein C-like	DFVCVENAK	626.7 (2)	643.3	631.2 (2)	111.6	5.76
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237704	apospory-associated protein C-like	VYAPGVAVSENGGLPK	808.3 (2)	567.4	808.3 (2)	96.6	5.87
1D gel ICAT 1	fraction no. 3 yc1dgel005, 006	TC237970	lipoxygenase 2b	QTIAGLNPLCIQLLTFEPIK	1220.8 (2)	138.8	1225.3 (2)	1384.2	0.10
1D gel ICAT 1	fraction no. 3 yc1dgel005, 006	TC237970	lipoxygenase 2b	QTIAGLNPLCIQLLTFEPIK	814.2 (3)	490.6	817.2 (3)	4675.5	0.10
unlabeled peptide 1	C01171-74yc	TC237970	lipoxygenase 2	TIFFLTDLGTLMPLAIELTRP K	831.2 (3)	325.3	831.2 (3)	4855	0.07
unlabeled peptide 1	C01171-74yc	TC237970	lipoxygenase 2	VYDYDVYNDLGDGDPKNAH QRPVLGGNK	791.1 (4)	788.2	791.1 (4)	2885.9	0.27
unlabeled peptide 1	C01171-74yc	TC237970	lipoxygenase 2	AFTHGPDATDAWLWK	573 (3)	410.7	573 (3)	1281.7	0.32
unlabeled peptide 1	C01171-74yc	TC237970	lipoxygenase 2	QLTFGATTLR	554.8 (2)	426.5	554.8 (2)	1306.2	0.33
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237970	lipoxygenase 2	AFTHGPDATDAWLWK	573 (3)	510.4	573 (3)	2229.5	0.23
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237970	lipoxygenase 2	QLTFGATTLR	554.7 (2)	345.4	554.7 (2)	1442.4	0.24
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC237970	lipoxygenase 2	VYDYDVYNDLGDGDPKNAH QRPVLGGNK	791 (4)	507.5	791 (4)	2059.7	0.25
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC237970	lipoxygenase 2	THCCVEPYIIAANR	688.3 (3)	283.4	682.2 (3)	2301.7	0.12
2D icat	low threshold 200mM NH4Cl,ye2dtest159, 173 (low thresh)	TC237970	lipoxygenase 2	QTIAGLNPLCIQLLTFEPIK	1225.1 (2)	98.8	1220.6 (2)	762.2	0.13
2D icat	High threshold 200mM NH4Cl, ye2dtest159	TC237970	lipoxygenase 2	QTIAGLNPLCIQLLTFEPIK	817.1 (3)	440.7	814.1 (3)	3140.9	0.14

unlabeled peptide 1	C01171-74yc	TC237971	lipoxygenase 2b	AVDDVGDILFGK	568.7 (2)	538.4	568.7 (2)	3155.6	0.17
unlabeled peptide 1	C01171-74yc	TC238048	SHOOT1 protein	VEAALSALEDALK	665.7 (2)	283.2	665.7 (2)	1631.9	0.17
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC238092	1-deoxy-d-xylulose-5-phosphate reductoisomerase	EALADCEEKPEIIPGEGQVI EVAR	941.8 (3)	noise (30)	944.8 (3)	531.4	0.06
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC238105	Ferredoxin lb	LIGPEGQESVLDVPEDSYIL DAAEEAGLDLPYSCR	1275 (3)	115.3	1275 (3)	411.4	0.28
1D gel ICAT 1	fraction no.10 yccat060404fr10ht, lt	TC238474	AP003287 P0679C12.27	TLVYIDCLVSPAPDGGSPVFR	812.2 (3)	290.3	815.2 (3)	897	0.32
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC238760	probably Thioredoxin	DSVIGAVPESTLVTCIEKFV ER	877 (3)	298	874 (3)	702.8	0.42
2D icat	low threshold 100mM NH4Cl, yc2dtest171	TC238760	probably Thioredoxin	CYKLNTDESPDIASQYGVR	799.2 (3)	151.5	796.2 (3)	323.6	0.47
unlabeled peptide 1	C01171-74yc	TC239133	30S ribosomal protein S5	VVLEMAGVENALGK	715.9 (2)	74.8	715.9 (2)	233.2	0.32
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC239473	sedoheptulose-1,7-bisphosphatase precursor	DCPGTHEFLLLDGK	634.7 (3)	8131.3	637.7 (2)	606.1	13.42
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC239473	sedoheptulose-1,7-bisphosphatase precursor	LLICMGEAMR	690.8 (2)	1538.3	695.3 (2)	112.5	13.67
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC239473	sedoheptulose-1,7-bisphosphatase precursor	LLFEALEYSHVCK	594 (3)	9537.6	597 (3)	695	13.72
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC239473	sedoheptulose-1,7-bisphosphatase precursor	LLFEALEYSHVCK	890.3 (2)	2642	894.8 (2)	187.7	14.08
1D gel ICAT 1	fraction no. 7 yc1dgel015	TC239473	sedoheptulose-1,7-bisphosphatase precursor	DCPGTHEFLLLDGK	951.4 (2)	2648.9	955.9 (2)	166.9	15.87
2D icat	low threshold 50mM NH4Cl, yc2dtest155,169	TC239473	sedoheptulose-1,7-bisphosphatase precursor	CEIGDSLEEFLLTK	860.9 (2)	184.7	856.4 (2)	43.4	4.26
unlabeled peptide 1	C01171-74yc	TC239473	sedoheptulose-1,7-bisphosphatase precursor	LLFEVAPLGFLEMEK	804.3 (2)	3752.4	804.3 (2)	738.1	5.08
unlabeled peptide 1	C01171-74yc	TC239473	sedoheptulose-1,7-bisphosphatase precursor	GIFTNVTSPTAK	618.7 (2)	1368.1	618.7 (2)	noise (20-30)	45.60
unlabeled peptide 2	ycmz50ugB2ht,lt ycmz50ugM1ht,lt	TC239473	sedoheptulose-1,7-bisphosphatase precursor	GIFTNVTSPTAK	618.8 (2)	1584.6	618.8 (2)	187.9	8.43
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC240729	Delta-aminolevulinic acid dehydratase	AAFQETSISPANFVLPFIHE GEEDAPIGAMPGCYR	1369.8 (3)	524.4	1372.8 (3)	802.6	0.65
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC240729	Delta-aminolevulinic acid dehydratase	VMMESLMCLR	720.8 (3)	402.9	725.3 (2)	458.6	0.88
unlabeled peptide 1	C01171-74yc	TC247336	FK506 binding protein 1	LEDGTVFDSSYKR	506.6 (3)	515.7	506.6 (3)	101.9	5.06
1D gel ICAT 1	fraction no. 6 yc1dgel012, 013	TC247511	Fructose-1,6-bisphosphatase	GILAMDESATCGKR	756.1 (3)	1901.1	759.1 (3)	506.4	3.75