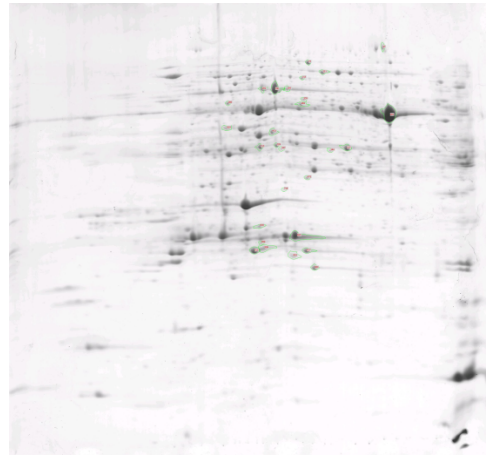
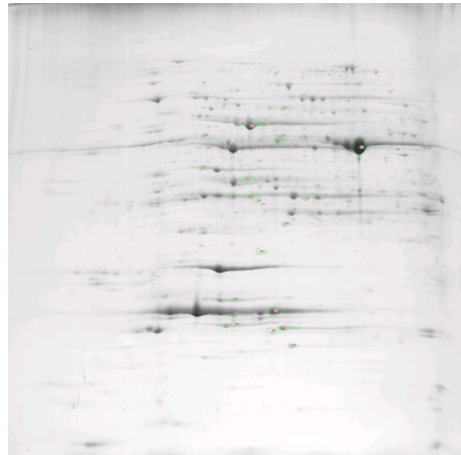


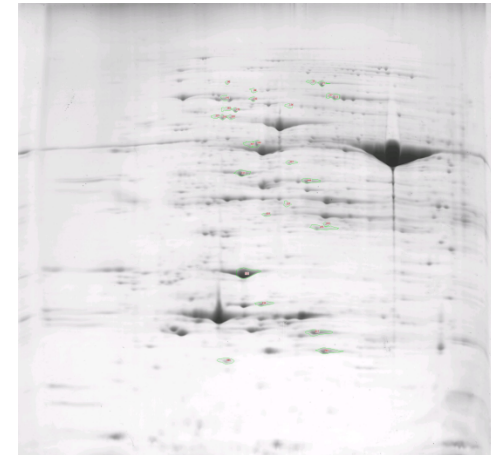
Supplementary Materials



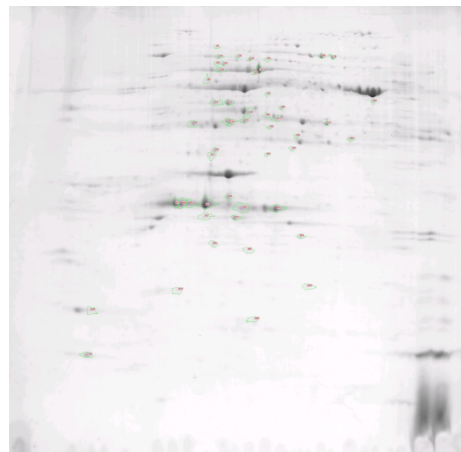
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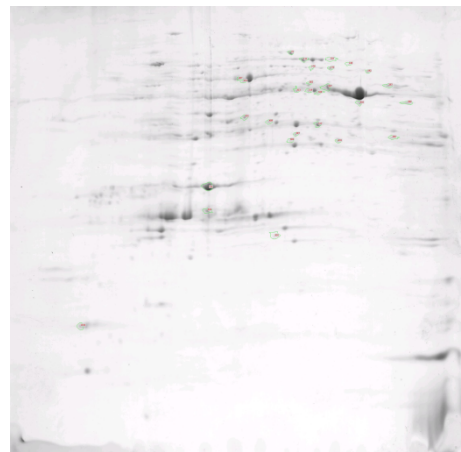
HRW



SNP



HRW+NaN₃



HRW+Tungstate

Figure S1. 2-DE gel images showed to employ protein spot densitometric analysis.

Table S1. The sequences of all unique peptides matched to each identified differential protein.

Spot No.	Protein name	Species	Pep. Count	Start Seq.	End Seq.	Sequences of unique peptides
201	ATP synthase CF1 alpha subunit (chloroplast)	<i>Lilium superbum</i>	21	166 17 273 406 120 6 15 481 129 108 177 256 95 255 468 285 26 26 142 385 141	172 22 279 413 128 14 22 491 140 119 188 266 107 266 480 297 41 41 162 405 162	ELIIGDR IEQYNR QMSLLLR ATQNQLAR GEISASESR ADEISNIIR ERIEQYNR TLTEQAEALLK LIESPAPGIISR VINALAKPIDGR TAVATDTILNQK HTLIYDDLK IAQIPVSEAYLGR RHTLIYDDLK NKPQFQEIISSTK EAYPGDVLYLHSR IVNTGTVLQVGDGIAR IVNTGTVLQVGDGIAR SVYEPLQTGLIAIDAMPIGR LELAQFAELEAFAQFASD LDK RSVYEPLQTGLIAIDAMPI
259	ATP synthase alpha subunit, partial (mitochondrion)	<i>Erythronium dens-canis</i>	10	110 87 134 248 49 215 151 134 99 146	119 97 145 260 64 229 166 150 119 165	AVDSLVPPIGR VEVKAPGIIER TAIAIDTILNQK EAFPGDVLYLHSR TGSIVDVPAGKALLGR DNGMHALIIYDDLK DVNPLYCVYVAIGQKR TAIAIDTILNQKQMNRSR SVHEPMQTGLKAVDSLVPPIG QMNSRDVNPLYCVYVAIGQK
202	ATP synthase CF1 alpha subunit (chloroplast)	<i>Lilium superbum</i>	22	166 17 273 406 120 6 15 481 129 108 177 256 129 95 273 255 468 285 26 26 142 141	172 22 279 413 128 14 22 491 140 119 188 266 141 107 284 266 480 297 41 41 162 162	ELIIGDR IEQYNR QMSLLLR ATQNQLAR GEISASESR ADEISNIIR ERIEQYNR TLTEQAEALLK LIESPAPGIISR VINALAKPIDGR TAVATDTILNQK HTLIYDDLK LIESPAPGIISRR IAQIPVSEAYLGR QMSLLLRPPGR RHTLIYDDLK NKPQFQEIISSTK EAYPGDVLYLHSR IVNTGTVLQVGDGIAR IVNTGTVLQVGDGIARGR SVYEPLQTGLIAIDAMPIGR RSVYEPLQTGLIAIDAMPIGR
908	Photosystem II oxygen evolving complex protein 2 precursor	<i>Fritillaria agrestis</i>	5	117 234 27 92 2	126 244 42 111 26	EVEFPGQVLR LYICKAQAGDK LVPTIKPSQLICRAQK TNTDFLPYTGDFNLLIPAK ASSACFLHHPSTPATTSTRTPSHR
284	ATP synthase CF1 beta subunit, partial (plastid)	<i>Lilium superbum</i>	15	192 487 278 249 232 3 2	205 498 291 261 246 18 18	AHGGVSVFGGVGER AMNLEGESNLKK FVQAGSEVSALLGR VGLTALTMAEYFR VALVYQMNEPPGAR INPTTSGLVSTLEEK RINPTTSGLVSTLEEK

				110 128 360 88 292 53 179	127 145 378 109 312 73 205	IFNVLGEPVDNLGPVDTR TTSPIHRSAPAFIQLDTK GIYPAVDPLDSTSTMLQPR GMEVIDTGTPLSVVGGATLGR MPSAVGYQPTLSTEMGS LQER DTVGPQINVTCEVQQLLGNRR TVLIMELINNIKAHGGVS
294	Ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial (chloroplast)	<i>Heloniopsis kawanoi</i>	29	301 183 301 291 28 417 299 281 435 213 335 301 17 130 197 142 160 211 446 142 446 232 330 232 335 190 17 254 37	307 189 307 298 36 426 307 290 445 222 345 311 27 141 208 154 172 222 458 156 460 247 345 248 351 208 36 280 74	NHGMHFR AVYECLR NHGMHFR AMHAVIDR DTDILAAFR VALEACVQAR QKNHGMHFR DNGLLLHIHR EGNEIIREASK FLFCAEALYK EMTLGFVDLLR NHGMHFRVLAK LTYYPDYETK LEDLRIPTSYSK DDENVNSQPFMR TFQGGPHGIQVER YGRPLLGCTIKPK DRFLFCAEALYK WSPELAAACEVWK TFQGGPHGIQVERDK WSPELAAACEVWKEI GHYLNATAGTCEEMIK LEGEREMTLGFVDLLR GHYLNATAGTCEEMIKR EMTLGFVDLLRDDDFIEK GGLDFTKDDENVNSQPFMR LTYYPDYETKDTDILAAFR ELGVPIVMHDYLTGGFTANTSLSHYCR VTPQGPVPEEAGAAVA AESSTGT WTTVWTDGLTSLDR
180	ATP synthase CF1 alpha subunit (chloroplast)	<i>Lilium superbum</i>	21	166 17 273 406 120 6 15 481 129 108 177 256 95 255 468 285 26 26 142 385 141	172 22 279 413 128 14 22 491 140 119 188 266 107 266 480 297 41 41 162 405 162	ELIIGDR IEQYNR QMSLLLR ATQNQLAR GEISASESR ADEISNIIR ERIEQYNR TLTEQAEALLK LIESPAPGIISR VINALAKPIDGR TAVATDTILNQK HTLIYDDLSK IAQIPVSEAYLGR RHTLIYDDLSK NKPQFQEISSTK EAYPGDV FYLHSR IVNTGTVLQVGDGIAR IVNTGTVLQVGDGIAR SVYEPLQTGLIAIDAMPIGR LELAQFAELEAFAQFASD LDK RSVYEPLQTGLIAIDAMPI
896	Carbonic anhydrase	<i>Musa acuminata subsp.</i>	4	37 1 94 47	46 13 109 64	FLVFACADSR MDPVERTSGFER VEYIVVIGHSRCGGIK VCPSVVL SFQPGAEFIVR
716	PDZ domain-containing protein	<i>Cynara cardunculus var.</i>	6	152 160 288 199 298 297	157 169 297 209 312 312	TMYTIR IGPLLMRMQK SEEFELMCK VREIQMQNYLR YDESFINENALNAIK KYDESFINENALNAIK

913	Chlorophyll a-b binding protein, chloroplastic	<i>Musa acuminata subsp.</i>	3	184 171 107	191 183 123	QYFLGLEK RFQDWANPGSMGK YAMLGAVGAIAP EIFGK
431	Actin	<i>Lilium davidii var. Davidii</i>	15	21 42 199 31 362 87 180 241 194 218 71 98 294 293 150	30 52 208 41 374 97 193 256 208 233 86 115 314 314 179	AGFAGDDAPR HTGVMVGMGQK GYMFTTTAER AVFPSIVGRPR AEFDESGPAIVHR IWHHTFYNELR LDLAGRDLTDSLMMK NYELPDGQVITIGAER ILTERGYMFTTTAER LAYVALDYEQELETAK YPIEHGIVSNWDDMEK VAPEEHPVLLTEAPLNPK DLYGNIVLSGGSTMFPGIADR KDLYGNIVLSGGSTMFPGIADR TTGIVLDSGDGVSH TVPIYEGYALP HAILR
511	Glutamine synthetase	<i>Tulipa pulchella</i>	5	296 279 333 141 53	305 291 353 165 79	HETADINTFK EHISAYGEGNERR RPASNMDPYVVTSMIAETLL WPIGWPIGGYPGPQGPYYCSAGAD K WNYDGSSTGQAPGEDSEVILYPQAI FK
479	Actin	<i>Lilium regale</i>	16	21 42 199 31 362 87 180 199 241 218 71 98 2 294 293 150	30 52 208 41 374 97 193 212 256 233 86 115 20 314 314 179	AGFAGDDAPR HTGVMVGMGQK GYMFTTTAER AVFPSIVGRPR AEFDESGPAIVHR IWHHTFYNELR LDLAGRDLTDSLMMK GYMFTTTAEREIVR NYELPDGQVITIGAER LAYVALDYEQELETAK YPIEHGIVSNWDDMEK VAPEEHPVLLTEAPLNPK ADAEDIQPLVCDNGTGMVK DLYGNIVLSGGSTMFPGIADR KDLYGNIVLSGGSTMFPGIADR TTGIVLDSGDGVSH TVPIYEGYALP HAILR
492	Monodehydroascorbate reductase	<i>Lilium longiflorum</i>	14	305 53 311 77 422 40 8 63 166 287 202 249 413 184	310 62 319 85 433 52 22 76 183 304 218 269 433 201	LYNEIR AYLFPQGAAR RVEHVDHAR LLPEWYTEK QLITEGLNFASK EAVAPYERPALSK YIIIGGGVSAGYAAR LPGFHVCVGSGER AVIVGGGYIGLELGATLK TSITDVYAVGDVATFPLK LFTAEIAAFYEGYYANK VLDADIVVVGVGGRPLTTLFK LQPAVADPKQLITEGLNFASK INNL DVTMVYPEPWCMR
220	ATP synthase CF1 alpha subunit (chloroplast)	<i>Lilium superbum</i>	19	166 17 406 6 15 481 129 108 177 256 191	172 22 413 14 22 491 140 119 188 266 202	ELIIGDR IEQYNR ATQNQLAR ADEISNIIR ERIEQYNR TLTEQAEALLK LIESPAPGIISR VINALAKPIDGR TAVATDTILNQK HTLIHYDDLK NVICVYVAIGQK

				95 468 189 285 26 142 385 141	107 480 202 297 41 162 405 162	IAQIPVSEAYLGR NKPQFQEISSTK GKNVICVYVAIGQK EAYPGDVVYFYLHSR IVNTGTVLQVGDGIAR SVYEPLQTGLIAIDAMIPIGR LELAQFAELEAFAQFASDLDK RSVYEPLQTGLIAIDAMIPIGR
988	Ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial (chloroplast)	<i>Gagea wilczekii</i>	12	13 284 115 2 182 127 196 300 217 431 266 22	21 292 126 12 193 139 207 314 232 446 283 59	DTDILAAFR QKNHGIHFR LEDLRIPASYSK LTYYPDPYETK DDENVNSQPFMR TFQGPPHGIQVER DRFLFCAEAIYK MSGGDHIHSGTVVVGK GHYLNATAGTCEEMMK WSPELAAACEVWKEIK DNGLLLHIHRAMHAVIDR VTPQPGVPPEEAGAAVAESSTGT WTTVWTDGLTSLDR
1060	Pathogenesis-related protein 10	<i>Lilium regale</i>	7	67 19 53 77 53 31 69	76 30 66 92 68 52 92	ERLDFVDHEK AAILDWHTLGPK QLNFTSVMPFSYVK FECQSTIIEGGHLGTR QLNFTSVMPFSYVKER LVPEIISSTGEGSDGGAGSVR LDFVDHEKFECQSTIIEGGHLGTR
136	Ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial (chloroplast)	<i>Trillium camschatcense</i>	9	1 8 279 122 191 212 212 315 295	7 16 287 134 202 227 228 331 314	TPDYTPK DTDILAAFR QKNHGIHFR TFQGPPHGIQVER DRFLFCAEALYK GHYLNATAGTCEEMMK GHYLNATAGTCEEMMKR EMTLGFVDLLRDDVVLK MSGGDHIHSGTVVVGKLEGER
985	ATP synthase beta subunit, partial (chloroplast)	<i>Fritillaria acmopetala</i>	16	203 187 273 374 244 227 1 257 105 355 203 83 287 48 350 452	212 200 286 385 256 241 17 272 122 373 220 104 307 68 373 483	EGNDLYMEMK AHGGVSVFGGVGER FVQAGSEVSALLGR IVGEEHYEIAQR VGLTALTMAEYFR VALVYGQMNPPGAR TTSGLGVSTLEEKNLGR DVNEQDVLLFIDNIFR IFNVLGEPVDNLGPVDTR GIYPAVDPLDSTSTMLQPR EGNDLYMEMKESGVINEK GMEVIDTGTPLSVPVGGATLGR MPSAVGYQPTLSTEMGSLQER DTVGPQINVTCEVQQLLGNNR GLAAKGIYPAVDPLDSTSTMLQPR GFQLILSGELDSLPEQAFYLVGNIDE ATAKAM
142	ATP synthase CF1 alpha subunit (chloroplast)	<i>Ripogonum album</i>	10	6 129 129 95 468 285 26 1 142 468	14 140 141 107 480 297 41 14 162 491	ADEISNIIR LIESPAPGIISR LIESPAPGIISRR IAQIPVSEAYLGR NKPQFQEISSTK EAYPGDVVYFYLHSR IVNTGTVLQVGDGIAR MVTLRAD EISNIIR SVYEPLQTGLIAIDSMIPIGR NKPQFQEISSTKTFTEQAEALLK
415	Glutamine synthetase	<i>Erythranthe guttata</i>	7	295 278 276 18	304 289 289 33	HETADINTFK EHIAAYGEGNER HKEHIAAYGEGNER IIAEYVWIGGSGMDLR

				332 84 52	355 111 78	RPASNMDPYIVTSMIAETTLGKQ GNNILVMCDAYTPAGVPIPGNNRH NAAK WNYDGSSTGQAPGEDSEVILYPQAI FK
405	6-phosphogluconate dehydrogenase, decarboxylating	<i>Citrus sinensis</i>	13	26 353 292 445 455 339 465 339 79 97 209 269 416	34 361 300 454 464 350 477 352 96 113 227 291 441	GFPISVYNR SIEKGWDLK FLSGLKEER LPANLVQAQR DYFGAHTYER ICSYAQGMNLIR VDMSGSFHTEWFK ICSYAQGMNLIRAK AGSPVDQTIKTLVYMEK GDCHIDGGNEWYENTER SVGKLSNEELQQVFSEWNK WTVQQAADLSVAAPTIESSLDAR VVCLAINSGISTPGMSSSLAYFDTY R
444	Elongation factor tu	<i>Vigna angularis var: Angularis</i>	14	323 472 121 120 199 319 349 150 134 83 44 100 212 165	333 483 131 131 211 333 364 164 149 99 60 119 229 191	VGETVDLVGLR TVGAGVIQSIIE YDEIDAAPEER KYDEIDAAPEER QVGVPNMVVFLNK GTIRVGETVDLVGLR ILDEALAGDNVGLLLR HYAHVDCPGHADYVK GITINTATVEYETENR KKPHVNIGTIGHVDHGK LTTLSSSFLQPSTVLRR TTLTAALMALASLGNLSA QDQVDDEELLQLVELEVR NMITGAAQMDGAILVVSAGDGPMP QTK
868	Chlorophyll a-b binding protein, chloroplastic	<i>Kalanchoe fedtschenkoi</i>	7	98 127 96 106 38 239 59	105 134 105 122 56 267 95	ELEVIHSR FGEAVWFK NRELEVIHSR WAMLGALGCVFPELLSR TGAKPKPVSSGSPWYGPD R GPLENLADHLADPVNNNAWAYATN FVPGK YLGPFSGEAPSYLTGEFPGDYGWD TAGLSADPETFAK
517	Glutamine synthetase	<i>Lolium perenne</i>	10	279 259 277 19 1 292 296 85 85 53	290 272 290 34 18 311 316 106 107 79	EHIAAYGEGNER KDDGFEVIVA AVEK HKEHIAAYGEGNER IIAEYIWIGSGMDLR MALLTDLNLDLSGSTEK LTGKHETADIHTFSWGVANR HETADIHTFSWGVANRGASIR GNNILVMCDCYTPAGEPIPTNK GNNILVMCDCYTPAGEPIPTNKR WNYDGSSTGQAPGEDSEVILYPQAI FK
866	Chlorophyll a-b binding protein, chloroplastic	<i>Carya cathayensis</i>	5	98 127 38 218 239	105 134 56 238 267	ELEVIHSR FGEAVWFK TAGRPKPVSSGSPWYGPD R NGRLAMFSMFGFFVQAIVTGK GPLENLADHLADPVNNNAWAYATN FVPGK
880	Beta carbonic anhydrase 3	<i>Arabidopsis thaliana</i>	6	82 110 155 77 187 232	91 120 167 91 203 250	FLVFACADSR NIANMVPPYDK GLMAIEDNTAPTK SQTPKFLVFACADSR QDCKDLSFEDQCTNCEK GAHYDFVKGTFDLWELDFK
864	Chlorophyll a-b binding protein,	<i>Kalanchoe fedtschenkoi</i>	10	127 96	134 105	FGEAVWFK NRELEVIHSR

	chloroplastic			123 106 106 38 221 239 178 59	134 122 122 56 238 267 212 95	NGVKFGEAVWFK WAMLGALGCVFPELLSR WAMLGALGCVFPELLSR TGAKPKPVSSGSPWYGPDR LAMFSMFGFFVQAIVTGK GPLENLADHLADPVNNNAWAYATN FVPGK VAGGPLGEVVDPLYPGGSFDPLGL ADDPEAFAELK YLGPFSGEAPSYLTGEFPGDYGWD TAGLSADPETFAK
860	Carbonic anhydrase	<i>Zea mays</i>	10	474 27 530 311 528 21 392 8 593 165	482 39 545 326 545 39 408 26 609 185	KPELFGPLK LRPPGSGSSGTPR YTGIGSAIEYAVCALC AFTVRNIAAMVPGYDK TKYTGIGSAIEYAVCALC AVLLRLRPPGSGSSGTPR KEHASVPFDDQCSILEK ATTSSIVPACHPRAVLLLR KEHASVPFDDQWSILEK DGAPDNFTFVEDWVRIGSPAK
542	Ribulose biphosphate carboxylase/oxygenase activase	<i>Medicago truncatula</i>	15	354 305 174 56 305 361 312 361 418 224 1 335 222 280 184	360 311 183 66 314 373 323 374 433 238 17 351 238 298 206	VYDDEVR FYWAPTR SFQCELVFAK VSAKIDYNEEK FYWAPTRDDR NWSIGIGVESIGK DDRVGVCQGIFR NWSIGIGVESIGKR YLSEAALGDANDDAIK MCCLFINDLDAGAGR MATSVTIVGAINMAQLK IVDTFPGQSIDFFGALR GKMCCLFINDLDAGAGR VPIIVTGNDFSTLYAPLIR MGISPIMMSAGELESGNAGEPAK
1037	Type II peroxiredoxin	<i>Medicago truncatula</i>	10	214 185 40 47 10 214 164 123	222 195 52 62 25 228 181 139	STLVSNMHR YALLAEDGVVK FNSKPLRFSSSPK FSSSPKISATISVGDK LLSSSTTSLSPKTK STLVSNMHRQVMQTK AIGVELDLSDKPVGLGVR GIDTIACISVNDAFVMK
304	ATP synthase CF1 beta subunit, partial (plastid)	<i>Lilium superbum</i>	28	146 155 135 76 192 487 278 379 179 206 74 232 23 232 1 262 110 360 88 400 53 292 398 51 53	154 163 145 87 205 498 291 390 191 217 87 246 39 248 18 277 127 378 109 418 73 312 418 73 75	LSIFETGIK VVDLLAPYR SAPAFIQLDTK AVAMSATDGLMR AHGGVSVFVGGVGER AMNLEGESNLKK FVQAGSEVSALLGR IVGEEHYEIAQR TVLIMELINNIK TREGNDLYMEMK VRVAMSATDGLMR VALVYGQMNPPGAR IAQIIGPVLDVVFPPGK VALVYGQMNPPGARMR MRINPTTSGLVSTLEEK DVNEQDVLLFIDNIFR IFNVLGEPVDNLGPVDTR GIYPAVDPLDSTSTMLQPR GMEVIDTGTPLSVVGGATLGR ELQDIIAILGLDELSEEDR DTVGPQINVTCEVQQLLGNNR MPSAVGYQPTLSTEMGS YKELQDIIAILGLDELSEEDR GRDTVGPQINVTCEVQQLLGNNR DTVGPQINVTCEVQQLLGNNRVR

				400 457 318	423 486 354	ELQDIIAILGLDELSEEDRLTVAR GFQLILSGELDGLPEQAFYLVGNID EATAK EGSITSIQAVYVPADDLTPAPAATF AHLDATTVLSR
964	Ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial (chloroplast)	<i>Cardiocrinum giganteum</i> var.	12	13 444 198 420 2 164 127 300 1 217 427 22	21 451 207 430 12 174 139 314 12 232 443 59	DTDILAAFR EIKFEFEP FLFCAEAIYK EGNEIIREACK LTYYPDYETK NYGRAVYECLR TFQGPPHGIQVER MSGGDHIHSGTVVGK KLTYYPDYETK GHYLNATAGTCEEMIK EACKWSPELAAACEVWK VTPQPGVPPEEAGA AVAAESSTGT WTTVWTDGLTSLDR
299	ATP synthase CF1 beta subunit, partial (plastid)	<i>Lilium superbum</i>	21	146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146	154 145 205 498 291 390 261 52 246 18 248 277 127 378 109 418 312 73 418 73 354	LSIFETGIK SAPAFIQLDTK AHGGVSVFGGVGER AMNLEGESNLKK FVQAGSEVSALLGR IVGEEHYEIAQR VGLTALTMAEYFR MPNIYNALVVKGR VALVYGQMNPPGAR INPTTSGLVSTLEEK VALVYGQMNPPGARMR DVNEQDVLLFIDNIFR IFNVLGEPVDNLGPVDTR GIYPAVDPLDSTSTMLQPR GMEVIDTGTPLSVPVGGATLGR ELQDIIAILGLDELSEEDR MPSAVGYQPTLSTEMGSLQER DTVGPQINVTCEVQQLLGNNR YKELQDIIAILGLDELSEEDR GRDTVGPQINVTCEVQQLLGNNR EGSITSIQAVYVPADDLTPAPAATF AHLDATTVLSR
130	70 kda heat shock protein	<i>Sandersonia aurantiaca</i>	3	234 20 119	244 36 141	NALENYAYNMR MDKSTVHDVVLVGGSTR EQVFSTYSNQPGLVLIQVYEGER
633	NADP-dependent alkenal double bond reductase P2	<i>Morus notabilis</i>	7	222 97 2 46 8 46 46 41	231 108 12 56 20 56 58 56	FGFDEAFNYK TLQPITGYGVAK AEVINKQVLLR NLYLSCDPYMR QVLLRDYVSGSAK NLYLSCDPYMR NLYLSCDPYMRGR GVLVKNLYLSCDPYMR
90	Elongation factor G, mitochondrial	<i>Medicago truncatula</i>	17	265 554 513 725 582 31 413 551 142 330 159 506 627 690 122 525	276 566 524 737 595 42 429 566 158 348 176 524 646 709 141 547	AIVWGGEEELGAK VEANVGAPQVNYR LAQEDPSFHFSR VSHKTLSPCAYIK QSGGQGQFADITVR FMGTCFRPVQSR VYSGKLTAGSYVLNSNK EYKVEANVGAPQVNYR GITITSAATTFWDNHR GSIAATFVPMCGSAFKNK INIIDTPGHVDFTLVER MAAGLVKLAQEDPSFHFSR GLEECMSNGVLAGFPVVDVR VEVVTPEEHLGDVIGDLNSR IGEVHEGTATMDWMEQEQR DEEINQTVIEGMGELHLEIIVDR
671	Cysteine synthase	<i>Populus</i>	11	293	304	LIVVVFPFSGER

		<i>trichocarpa</i>		159 50 265 96 35 114 93 159 242 142	170 63 282 109 49 129 108 175 259 158	VHYETTGPETIWK DRIGYSMIADAEAK EGLLVGISSGAAAAAVK LIITMPASMSNERR IAAKLEGMEPCSSVK AFGAELVLTNPAKGMK GYKLIITMPASMSNER VHYETTGPETIWKGSQK IVDEVVQISSDEAIETAK TPNAYILQQFENPSNPK
839	Putative L-ascorbate peroxidase 2, cytosolic-like	<i>Solanum chacoense</i>	9	31 39 39 209 192 68 223 172 143	38 50 52 222 208 85 240 191 166	NCAPILR LAWHSAGTYDVK LAWHSAGTYDVTKK ALLEDPVFRPLVEK ELLSGEKEGLLQLPSDK HGANNGLDIAVRLLEPIK YAADEDAFFADYAEHLK SGFEGAWTNNPLIFDINSYFK EVFGHMGSLSDKDIVALSGGHTLGR
618	Trypsin-like serine protease	<i>Medicago truncatula</i>	10	325 419 106 158 188 209 207 226 135 135	333 428 116 169 201 225 225 248 157 169	VTRPILGIK EKIPVILEPK KLQTDDELATVR DGHIVTNYHVIR VVGFDQDKDVAVLR LRPIPVGVSADLLVGQK DKLRPIPVGVSADLLVGQK VYAIGNPFGLDHTLTGVISGLR QDAFTLDVLEVPQSGSGFVWDK QDAFTLDVLEVPQSGSGFVWDK DGHIVTNYHVIR
182	Ftsh-like protein pftf	<i>Nicotiana tabacum</i>	24	340 660 101 609 338 241 379 241 471 419 457 522 1 197 1 321 630 319 432 220 113 487 283 351 580	350 668 109 618 350 251 391 251 484 431 470 537 17 217 18 337 646 337 453 240 134 511 311 378 608	GTGIGGGNDER ETMTGDEFR FLEYLDKDR MMARNMSEK QRGTGIGGGNDER QDFMEVVEFLK ADILDSALLRGR QDFMEVVEFLK IVAGMEGTVMTDGK FSDVSLEVIAMR TAIASKEIDDSIDR GLTWFIPADDPTLISK MATSSVCIAGNSLSTHR SPGGMGPGPGNPLAFGQSK MATSSVCIAGNSLSTHRR ENAPCIVFVDEIDAVGR LSDSAYEIALTHIRNNR AKENAPCIVFVDEIDAVGR TPGFSGADLANLLNEAAILAGR FQMEPNTGVTFFDDVAGVDEAK VDLFENGTAIVEAISPELGNR SLVAYHEVGHAICGTLTPGHDAVQK AIAGEAGVPFFSISGSEFVEMFVGV GASR EQTLNQLLTEMDFEGNTGHIVVAA TNR QMVVTFGMSELGPWSLMDSSAQS GDVIMR
307	ATP synthase alpha subunit, partial (mitochondrion)	<i>Lilium lancifolium</i>	13	133 87 361 120 75 109 144 168 329 261 228	139 94 367 129 86 119 155 178 342 273 242	ELIIGDR GALSDHER LELAQYR AVDSLVPGR VVDALGVPIDGR SVHEPMQTGLK TAIAIDTILNQK LYCVYVAIGQK GIRPAINVGLSVSR EAFPGDVLYLHSR DNGMHALIYYDLSK

				9 368	28 389	VYGLNEIQAGEMVEFASGVK EVAFAQFGSDLLAATQALLNR
313	Atpb (chloroplast)	<i>Lilium distichum</i>	17	393 135 208 192 278 379 249 232 3 1 262 110 360 208 88 292 53	399 145 217 205 291 390 261 246 18 18 277 127 378 225 109 312 73	QTSQRYK SAPAFIQLDTK EGNDLYMEMK AHGGVSVFGGVGER FVQAGSEVSALLGR IVGEEHYEIAQR VGLTALTMAEYFR VALVYGMNEPPGAR INPTTSGLGVSALEEK MRINPTTSGLGVSALEEK DVNEQDVLLFIDNIFR IFNVLGEPVDNLGPVDTR GIYPAVDPLDSTSTMLQPR EGNDLYMEMKESGVINEK GMEVIDTGTPSVVGGATLGR MPSAVGYQPTLSTEMGSLQER DTVGPQINVTCEVQQLLGNRR
580	Glyceraldehyde-3-phosphate dehydrogenase, partial	<i>Lilium regale</i>	12	114 261 260 209 56 332 182 33 32 243 318 280	125 271 271 223 68 344 195 48 48 259 331 295	EGAGKHIQAGAK TFAEEVNAAFR KTFAEEVNAAFR AAALNIVPTSTGAAK YDSTLGIFGADVK VVDLADIVANNWK GTMTTTHSYTGDQR DSPLEIIAINDTGGVK KDSPLEIIAINDTGGVK VPTPNVSVVDLVVQVSK VIAWYDNEWGYSQR GILSVCDEPLVSVDFR
349	Ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial (chloroplast)	<i>Cardiocrinum giganteum</i> <i>var. Yunmanense</i>	19	168 13 402 284 266 420 320 2 182 127 145 431 431 217 427 320 175 239 22	174 21 411 292 275 430 330 12 193 139 157 443 446 233 443 336 193 265 59	AVYECLR DTDILAAFR VALEACVQAR QKNHGMHFR DNGLLLHIHR EGNEIIREACK EMTLGFVDLLR LTYYPDPYETK DDENVNSQPFMR TFQGPPHGIQVER YGRPLLGTIKPK WSPELAAACEVWK WSPELAAACEVWKEIK GHYLNATAGTCEEMIKR EACKWSPELAAACEVWK EMTLGFVDLLRDDFIEK GGLDFTKDDENVNSQPFMR ELGVPIVMHDYLTGGFTANTSLSHYCR VTPQPGVPPEEAGAAVAESSTGT WTTVWTDGLTSLDR
489	Monodehydroascorbate reductase	<i>Lilium longiflorum</i>	18	305 53 311 77 27 86 422 40 8 63 391 166 225 287 202 249 184	310 62 319 85 39 97 433 52 22 76 405 183 243 304 218 269 201	LYNEIR AYLFPQGAAR RVEHVDHAR LLPEWYTEK QGLAPGELAIISK GIELLSTEIVK QLITEGLNFASK EAVAPYERPALSK YIIIGGGVSAGYAAR LPGFHVCVGGGER VVGAFLESGSPDENK AVIVGGGYIGLELGATLK GTVAVGFSDANGDVTAVK TSITDVYAVGDVATFPLK LFTAIEIAFYEGYYANK VLDADIVVVGGRPLTTLFK INNLDVMTMVYEPWCMPR

				413	433	LQPAVADPKQLITEGLNF
752	Photosystem II oxygen evolving complex protein 1 precursor	<i>Fritillaria agrestis</i>	16	235 206 89 320 88 235 262 245 243 189 33 214 164 245 289 189	242 213 97 329 97 242 273 261 261 205 53 234 184 269 313 213	GSSFLDPK VPFLFTVK LTFDEIQSK IQGIWYAQLE RLTFDEIQSK GSSFLDPK GDEEELVKENIK GGSAGYDNAVALPAGGR GRGGSAGYDNAVALPAGGR DGIDYAAVTVQLPGGER AFGFDNSTAGRRLTCSINSDLR QLVATGKPESFSGSYLVPSYR LTYTLDEIEGPFVAPDGTVK GGSAGYDNAVALPAGGRGDEEELV K SKPETGEVIGVFESIQPSDSDLGSK DGIDYAAVTVQLPGGERVPFLFTVK
263	Dihydrolipoyl dehydrogenase	<i>Salvia miltiorrhiza</i>	6	417 495 482 92 76 290	427 507 494 104 91 314	VGKFPLLANSR EAAMATYDKPIHI TCHAHPTMSEALK ALLHSSHMYHEAK GALGGTCLNVGCIPSK LTIEPAAGGEQTTLEADVVLVSAGR
192	Malic enzyme	<i>Phaseolus angularis</i>	9	135 606 252 180 480 630 648 480 2	143 616 263 189 494 643 662 498 20	GLAFTEGER GLAFTEGER GLAFTEGER GLAFTEGER AIKPTVLIGSSGVGK AYDLGLASHLPRPK YAESCMYSPGYRSYR AIKPTVLIGSSGVGKTFK SHSSGCDVSKTLGLCICER
604	604	Fructose-bisphosphate aldolase	9	240 204 174 349 282 84 69 83 151	246 211 183 358 293 96 82 96 173	TFEVAQK EAAWGLAR TAAYYQQGAR TWGGRPENVK ATPEQVADYTLK LASIGLENTEANR GILAMDESNATCGK RLASIGLENTEANR GLVPLAGSNDESWCQGLDGLASR