

Table 1: Protein identifications from the "unclean fractions" of the rice etioplast preparation. Identified proteins (column protein identifications) are depicted by the TIGR

| Protein identifications | | | | Sub-cellular localization | | Notes |
|-------------------------|--------------|--------|----------|---------------------------|---------------|-------|
| TIGR | TIGR | Number | Fraction | TragetP | Verified sub- | |
| 146 | beta-5 | 10 | Band 0 | location | cytosol | |
| 448 | ribosomal | 3 | Band 0 | pathway | cytosol | |
| 153 | xin o_sativ | 3 | Band 0 | location | cytosol | |
| 101 | 090P23.3 | 24 | Band 0 | location | cytosol | |
| 176 | 057G07.1 | 5 | Band 0 | location | cytosol | |
| 152 | hydratase | 4 | Band 0 | plastid | cytosol | |
| 100 | shock | 5 | Band 0 | location | cytosol | |
| 150 | c initiation | 6 | Band 0 | location | cytosol | |
| 253 | tubulin o_ | 5 | Band 0 | location | cytosol | |
| 088 | 005K07.1 | 6 | Band 0 | location | cytosol | |
| 172 | glycerate | 4 | Band 0 | location | cytosol | |
| 126 | l protein | 3 | Band 0 | location | cytosol | |
| 169 | ehyde-3- | 5 | Band 0 | location | cytosol | |
| 140 | ribosomal | 3 | Band 0 | location | cytosol | |
| 203 | glycerate | 3 | Band 0 | location | cytosol | |
| 174 | aminotran | 3 | Band 0 | ria | cytosol | |
| 206 | ehyde-3- | 3 | Band 0 | location | cytosol | |
| 167 | bisphosph | 9 | Band 0 | location | cytosol | |
| 157 | bisphosph | 5 | Band 0 | location | cytosol | |
| 4 | 055P24.3 | 4 | Band 0 | location | cytosol | |
| 144 | l protein | 3 | Band 0 | location | cytosol | |
| 175 | sphate | 8 | Band 0 | location | cytosol | |
| 108 | c | 4 | Band 0 | location | cytosol | |
| 174 | nally | 3 | Band 0 | location | cytosol | |
| 156 | ribosomal | 5 | Band 0 | pathway | cytosol | |
| 187 | 2 | 3 | Band 0 | location | cytosol | |
| 129 | al protein | 3 | Band 0 | location | cytosol | |
| 022 | 60S | 4 | Band 0 | ria | cytosol | |
| 175 | l L5P | 3 | Band 0 | ria | cytosol | |
| 210 | 10 | 4 | Band 0 | location | cytosol | |
| 142 | l protein | 4 | Band 0 | pathway | cytosol | |
| 166 | l protein | 4 | Band 0 | plastid | cytosol | |
| 164 | al | 4 | Band 0 | ria | cytosol | |
| 232 | ribosomal | 3 | Band 0 | ria | cytosol | |
| 127 | l protein | 4 | Band 0 | location | cytosol | |
| 160 | ribosomal | 6 | Band 0 | location | cytosol | |
| 141 | ribosomal | 3 | Band 0 | location | cytosol | |
| 165 | l protein | 4 | Band 0 | ria | cytosol | |
| 204 | 032H19.8 | 4 | Band 0 | location | cytosol | |
| 131 | ligase, | 8 | Band 1 | pathway | cytosol | |
| 149 | phosphogl | 5 | Band 1 | location | cytosol | |
| 200 | hydratase | 8 | Band 4 | location | cytosol | |
| 141 | n | 10 | Band 5 | location | cytosol | |
| 056 | bisphosph | 3 | Band 5 | location | cytosol | |
| 121 | ehyde-3- | 4 | Band 5 | location | cytosol | |
| 105 | homolog o | 3 | ant | location | cytosol | |
| 155 | l protein | 3 | ant | location | cytosol | |

| | | | | | | |
|-----|-------------|----|--------|----------|------------------------|--|
| 189 | l protein | 6 | ant | location | cytosol | |
| 155 | protein o_ | 7 | Band 1 | location | cytosol (potential) | |
| 147 | ascorbate | 4 | Band 5 | location | cytosol (potential) | |
| 106 | elongation | 3 | Band 5 | pathway | cytosol / ER | |
| 139 | 1 putative | 26 | Band 0 | plastid | transport | |
| 115 | n | 4 | Band 0 | pathway | ER / Golgi | |
| 133 | related o_ | 3 | Band 0 | pathway | ER / Golgi | |
| 168 | protein, | 9 | Band 0 | pathway | ER / Golgi | |
| 158 | m lumenal | 6 | Band 0 | pathway | ER / Golgi | |
| 149 | ribosylatio | 5 | Band 0 | ria | ER / Golgi | |
| 225 | n | 3 | Band 1 | pathway | ER / Golgi | |
| 086 | in family, | 8 | ant | pathway | ER / Golgi | |
| 179 | disulfide | 10 | Band 0 | pathway | ER / Golgi (potential) | |
| 113 | precursor. | 6 | Band 5 | pathway | extra cellular | |
| 181 | putative o | 12 | Band 5 | pathway | extra cellular | |
| 158 | glutelin- | 8 | Band 5 | pathway | extra cellular | |
| 155 | type ii | 5 | Band 5 | pathway | extra cellular | |
| 114 | precursor. | 8 | Band 5 | pathway | extra cellular | |
| 100 | precursor- | 7 | Band 5 | pathway | extra cellular | |
| 189 | putative o | 13 | Band 5 | pathway | extra cellular | |
| 148 | se, | 3 | Band 5 | pathway | cytosol | |
| 083 | chitinase | 6 | Band 5 | pathway | cytosol | |
| 149 | hydrolase | 3 | Band 5 | pathway | cytosol | |
| 173 | citrate | 7 | Band 5 | pathway | glyoxysomal | |
| 165 | hydroxyac | 10 | Band 5 | location | glyoxysome | |
| 116 | d | 3 | Band 4 | ria | mitochondria | |
| 189 | 059E14.1 | 4 | Band 0 | ria | mitochondria | |
| 057 | synthase | 4 | Band 0 | location | mitochondria | |
| 193 | synthase | 4 | Band 0 | ria | mitochondria | |
| 150 | c | 4 | Band 0 | location | mitochondria | |
| 122 | atp | 4 | Band 0 | ria | mitochondria | |
| 0 | 073N24.2 | 3 | Band 1 | plastid | mitochondria | |
| 182 | dehydroge | 3 | Band 1 | ria | mitochondria | |
| 233 | dehydroge | 3 | Band 1 | ria | mitochondria | |
| 148 | dehydroge | 3 | Band 4 | location | mitochondria | |
| 131 | 014G15.3 | 7 | Band 4 | ria | mitochondria | |
| 145 | drial | 3 | Band 4 | ria | mitochondria | |
| 149 | oamide | 4 | Band 4 | ria | mitochondria | |
| 158 | synthase | 12 | Band 4 | ria | mitochondria | |
| 183 | 071K18.1 | 12 | Band 4 | ria | mitochondria | |
| 144 | synthase | 5 | Band 4 | ria | mitochondria | |
| 084 | NADH- | 5 | Band 4 | ria | mitochondria | |
| 059 | dehydroge | 8 | Band 4 | ria | mitochondria | |
| 166 | oxoglutara | 4 | ant | ria | mitochondria | |
| 155 | dehydroge | 3 | ant | ria | mitochondria | |
| 151 | dehydroge | 3 | ant | ria | mitochondria | |
| 121 | cal | 3 | ant | location | mitochondria | |
| 155 | superoxid | 8 | ant | pathway | mitochondria | |
| 129 | cytochrom | 3 | ant | ria | mitochondria | |
| 167 | on- | 3 | Band 0 | pathway | nucleus | |
| 136 | h4 o_sativ | 3 | Band 4 | location | nucleus | |

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|-----|-------------|----|--------|----------|----------------------|----------|
| 302 | histone | 7 | Band 5 | location | nucleus | |
| 147 | H2A-like | 3 | Band 5 | location | nucleus | |
| 148 | H2B- | 3 | Band 5 | location | nucleus | |
| 150 | family | 5 | Band 0 | location | nucleus / ER / Golgi | |
| 299 | mal | 13 | Band 5 | location | peroxisome | |
| 071 | oxidase, | 9 | Band 5 | location | peroxisome | |
| 235 | putative o | 5 | Band 5 | location | peroxisome | |
| 159 | isozyme a | 12 | Band 5 | ria | peroxisome | |
| 183 | oxidase o | 5 | Band 5 | location | peroxisome | |
| 145 | protein - | 3 | Band 5 | location | peroxisome | |
| 092 | 5 3- | 10 | Band 5 | pathway | (potential) | |
| 173 | F16.7 acet | 7 | Band 5 | pathway | (potential) | |
| 069 | me type | 6 | Band 5 | ria | (potential) | |
| 045 | putative o | 4 | Band 1 | location | glyoxysome | |
| 146 | family | 3 | Band 1 | location | plasma membrane | |
| 047 | family | 3 | Band 1 | location | plasma membrane | |
| 129 | membran | 6 | Band 5 | location | plasma membrane | |
| 126 | n o_sativa | 3 | Band 5 | location | plasma membrane | |
| 164 | membran | 3 | ant | location | plasma membrane | |
| 032 | membran | 13 | ant | location | plasma membrane | |
| 138 | phosphate | 12 | Band 0 | location | plastid | detected |
| 130 | 016H12.1 | 5 | Band 0 | plastid | plastid | detected |
| 150 | n factor | 12 | Band 1 | plastid | plastid | detected |
| 152 | homocyst | 4 | Band 1 | plastid | plastid | detected |
| 225 | Phosphogl | 4 | Band 1 | plastid | plastid | detected |
| 089 | phosphogl | 4 | Band 1 | plastid | plastid | detected |
| 154 | 2 | 5 | Band 1 | plastid | plastid | detected |
| 134 | cal | 4 | Band 1 | plastid | plastid | detected |
| 117 | subunit | 9 | Band 1 | plastid | plastid | detected |
| 196 | e-1- | 6 | Band 1 | plastid | plastid | detected |
| 128 | ribosomal | 3 | Band 1 | plastid | plastid | detected |
| 152 | synthase | 5 | Band 1 | plastid | plastid | detected |
| 164 | A family, | 3 | Band 4 | plastid | plastid | detected |
| 116 | protein o_ | 3 | Band 4 | location | plastid | detected |
| 157 | o_sativa c | 4 | Band 4 | plastid | plastid | detected |
| 136 | translocat | 7 | Band 4 | plastid | plastid | detected |
| 136 | sphate | 3 | Band 5 | plastid | plastid | detected |
| 124 | n factor G, | 13 | Band 0 | location | plastid | |
| 171 | synthase | 3 | Band 0 | plastid | plastid | |
| 112 | n- | 6 | Band 1 | plastid | plastid | |
| 139 | yl- | 12 | Band 1 | plastid | plastid | |
| 109 | 9 | 3 | Band 1 | plastid | plastid | |
| 3 | 051D19.7 | 7 | Band 1 | plastid | plastid | |
| 93 | 040E01.3 | 4 | Band 1 | plastid | plastid | |
| 135 | poson | 5 | Band 1 | plastid | plastid | |
| 156 | lase o_sati | 12 | Band 1 | plastid | plastid | |
| 107 | 70 kda | 10 | Band 1 | plastid | plastid | |
| 159 | 010E04.4 | 3 | Band 1 | plastid | plastid | |
| 134 | hydroxy-2- | 3 | Band 1 | plastid | plastid | |
| 146 | st | 5 | Band 1 | plastid | plastid | |
| 163 | 033P04.2 | 16 | Band 1 | plastid | plastid | |

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|-----|-------------|----|--------|----------|-----------------|--|
| 188 | 095C07.5 | 8 | Band 1 | plastid | plastid | |
| 112 | phosphogl | 8 | Band 1 | plastid | plastid | |
| 119 | roxy acid | 5 | Band 1 | plastid | plastid | |
| 156 | glucanotra | 7 | Band 1 | location | plastid | |
| 132 | 1/cpn60 | 10 | Band 1 | plastid | plastid | |
| 154 | kinase | 6 | Band 1 | plastid | plastid | |
| 138 | oamide | 4 | Band 1 | plastid | plastid | |
| 123 | oamide | 3 | Band 1 | plastid | plastid | |
| 154 | 1/cpn60 | 16 | Band 1 | plastid | plastid | |
| 201 | roxy acid | 6 | Band 1 | plastid | plastid | |
| 134 | kinase o_s | 3 | Band 1 | plastid | plastid | |
| 167 | 048A17.6 | 3 | Band 1 | plastid | plastid | |
| 165 | aminolevul | 4 | Band 1 | plastid | plastid | |
| 166 | nsferase, | 5 | Band 1 | ria | plastid | |
| 176 | n | 5 | Band 1 | plastid | plastid | |
| 086 | cs-related | 6 | Band 1 | plastid | plastid | |
| 173 | 0/F6F22.3 | 4 | Band 1 | plastid | plastid | |
| 105 | glycerate | 4 | Band 1 | plastid | plastid | |
| 115 | lase, | 10 | Band 1 | plastid | plastid | |
| 053 | serine | 6 | Band 1 | plastid | plastid | |
| 115 | st protein | 4 | Band 1 | plastid | plastid | |
| 105 | olase, | 6 | Band 1 | plastid | plastid | |
| 124 | ne | 3 | Band 1 | plastid | plastid | |
| 133 | d | 3 | Band 1 | plastid | plastid | |
| 191 | ibosylform | 4 | Band 4 | plastid | plastid | |
| 189 | shock | 4 | Band 4 | plastid | plastid | |
| 156 | Arabidopsi | 3 | Band 4 | plastid | plastid | |
| 153 | 2-cys | 4 | Band 4 | plastid | plastid | |
| 206 | synthase | 3 | Band 4 | plastid | plastid | |
| 174 | l protein | 3 | Band 4 | plastid | plastid | |
| 056 | evolving | 3 | Band 4 | plastid | plastid | |
| 115 | um- | 3 | Band 4 | plastid | plastid | |
| 147 | synthase | 4 | Band 4 | plastid | plastid | |
| 142 | dependent | 10 | Band 4 | plastid | plastid | |
| 171 | 3-beta | 3 | Band 4 | plastid | plastid | |
| 142 | dependent | 12 | Band 5 | plastid | plastid | |
| 123 | in, 10 | 4 | Band 5 | plastid | plastid | |
| 164 | n factor G, | 9 | ant | location | plastid | |
| 438 | 034L04.44 | 4 | Band 1 | location | plastid encoded | |
| 153 | synthase | 10 | Band 1 | location | plastid encoded | |
| 154 | l protein | 5 | Band 4 | location | plastid encoded | |
| 093 | synthase | 3 | Band 5 | location | plastid encoded | |
| 096 | coenzyme | 25 | Band 1 | location | plastid/cytosol | |
| 120 | phosphogl | 3 | Band 1 | pathway | plastid/cytosol | |
| 176 | me | 3 | Band 0 | location | proteasome | |
| 141 | transporte | 5 | Band 0 | location | unknown | |
| 093 | e | 3 | Band 0 | location | unknown | |
| 168 | like lectin | 7 | Band 0 | location | unknown | |
| 160 | nodulin 93 | 3 | Band 0 | ria | unknown | |
| 113 | d | 3 | Band 0 | ria | unknown | |
| 101 | e | 3 | Band 0 | location | unknown | |

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|-----|-------------|----|--------|----------|---------|--|
| 47 | 027P10.4 | 3 | Band 0 | location | unknown | |
| 52 | 064P21.3 | 5 | Band 0 | pathway | unknown | |
| 159 | calmoduli | 3 | Band 0 | location | unknown | |
| 152 | 024B16.2 | 20 | Band 0 | location | unknown | |
| 102 | 0 | 5 | Band 0 | location | unknown | |
| 007 | methyltetr | 4 | Band 0 | location | unknown | |
| 129 | A02.1 rev | 7 | Band 0 | location | unknown | |
| 156 | drolase o_ | 3 | Band 0 | location | unknown | |
| 097 | protein - | 8 | Band 0 | location | unknown | |
| 107 | elongation | 6 | Band 0 | location | unknown | |
| 061 | cal | 3 | Band 0 | location | unknown | |
| 093 | like | 3 | Band 0 | location | unknown | |
| 116 | fructokina | 3 | Band 0 | location | unknown | |
| 094 | protein - | 6 | Band 0 | location | unknown | |
| 137 | family, | 3 | Band 0 | location | unknown | |
| 138 | ne S- | 3 | Band 0 | pathway | unknown | |
| 152 | of | 7 | Band 0 | pathway | unknown | |
| 162 | F16.14 Ra | 3 | Band 0 | location | unknown | |
| 048 | gene o_sa | 7 | Band 0 | location | unknown | |
| 134 | cal | 8 | Band 0 | ria | unknown | |
| 183 | olyl | 4 | Band 0 | ria | unknown | |
| 107 | al L28e | 3 | Band 0 | location | unknown | |
| 143 | protein | 3 | Band 0 | pathway | unknown | |
| 114 | 0033G16. | 3 | Band 0 | ria | unknown | |
| 153 | symbiotic | 3 | Band 0 | location | unknown | |
| 143 | 8 ADP- | 3 | Band 0 | pathway | unknown | |
| 210 | ribosylatio | 4 | Band 0 | pathway | unknown | |
| 166 | /beta- | 4 | Band 1 | location | unknown | |
| 150 | full-length | 3 | Band 1 | location | unknown | |
| 219 | dehydroge | 3 | Band 1 | location | unknown | |
| 190 | plasma | 3 | Band 1 | pathway | unknown | |
| 081 | kinase a | 4 | Band 4 | location | unknown | |
| 194 | transposa | 3 | Band 5 | location | unknown | |
| 103 | Rich | 3 | Band 5 | pathway | unknown | |
| 189 | family | 4 | Band 5 | location | unknown | |
| 120 | 332, | 3 | ant | location | unknown | |
| 095 | IO, N- | 4 | ant | location | unknown | |
| 146 | Rich | 4 | ant | pathway | unknown | |
| 145 | IO, N- | 7 | ant | location | unknown | |
| 144 | kinase | 6 | ant | pathway | unknown | |
| 145 | oxoglutara | 3 | ant | ria | unknown | |
| 097 | nositide- | 5 | ant | ria | unknown | |
| 135 | GTP- | 3 | ant | pathway | unknown | |
| 149 | F18O14.3 | 4 | ant | location | unknown | |
| 153 | domain, | 3 | ant | location | unknown | |
| 152 | ATPase, | 7 | Band 0 | location | vacuole | |
| 123 | H(+)- | 9 | Band 0 | pathway | vacuole | |
| 166 | 0/F19H22 | 9 | Band 0 | location | vacuole | |
| 159 | ATPase, | 3 | Band 0 | ria | vacuole | |
| 112 | vacuolar | 3 | Band 0 | location | vacuole | |
| 148 | H(+)- | 3 | Band 0 | pathway | vacuole | |

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|-----|----------|----|--------|----------|---------|--|
| 154 | ATPase, | 14 | Band 0 | location | vacuole | |
| 148 | atp | 5 | Band 0 | ria | vacuole | |
| 154 | synthase | 6 | Band 0 | location | vacuole | |
| 124 | synthase | 6 | Band 0 | location | vacuole | |
| 202 | ATPase, | 5 | ant | location | vacuole | |