**Supplementary figures**

**Supplementary figure 1.** Sucrose depletion in hydroponic medium between weeks 7 and 9 for the stationary control and the shaking group. Values are for pooled samples from 3 plants.

**Methodology**

Sucrose concentration was measured with a Sucrose Assay Kit (Sigma-Aldrich, Poole, UK - product code SCA-20). The assay was performed according to the manufacturer’s instructions.

**Supplementary figure 2.** gp120 binding ELISA with eluted samples from first IEX run. 50 ml of dialyzed medium were loaded onto an 1 ml HiTrap Q HP column. After washing, elution was performed in three steps: 1 – 0 to 200 mM NaCl in buffer A (10 ml); 2 – gradient from 200mM to 1M NaCl in buffer A (30 ml, 1 ml fractions); 3 – 1M NaCl (10 ml, 1 ml fractions). Loaded samples and Flow-through samples were diluted 10 times and elution fraction 100 times prior to loading (neat).

**Supplementary figure 3.** gp120 binding ELISA with eluted samples from second IEX run. 50 ml of dialysed medium were loaded onto a 1 ml HiTrap Q HP column. After washing, elution was performed in three steps: 1 – gradient from 0 to 200 mM NaCl in buffer A (12 ml, 1 ml fractions); 2 – gradient from 200mM to 1M NaCl in buffer A (10 ml, 1 ml fractions); Strip – 1M NaCl (10 ml). Hydroponic medium samples and FT were diluted 10 times and elution fractions were diluted 100 times prior to loading (neat).

Supplementary Table 1. Proteins identified in ‘CV-N with NAA in MS’ sample. Recombinant protein is highlighted in red, hits highlighted in blue indicate proteins differing from supplementary table 2.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Hit number** | **Database access number** | **Protein description** | **Mascot score** | **Mass** | **emPAI** |
| 1 | gi|148299083 | subtilisin-like protease [Nicotiana tabacum] | 1211 | 81137 | 1.67 |
| 2 | gi|108752035|gb|ABG02914.1| | cyanovirin-N [synthetic construct] | 750 | 10923 | 27.27 |
| 3 | gi|116314 | Endochitinase A precursor (CHN-A)[Nicotiana tabacum] | 629 | 35134 | 1.76 |
| 4 | gi|64976605 | peroxidase [Nicotiana tabacum] | 593 | 38740 | 2.65 |
| 5 | gi|131015 | Pathogenesis-related protein R major form precursor (Thaumatin-like protein E22)[Nicotiana tabacum] | 590 | 24650 | 2.65 |
| 6 | gi|63002585 | peroxidase [Nicotiana tabacum] | 571 | 35563 | 1.48 |
| 7 | gi|63253080 | peroxidase [Nicotiana tabacum] | 562 | 38505 | 2.35 |
| 8 | gi|129837 | Lignin-forming anionic peroxidase precursor (TOPA)[Nicotiana tabacum] | 544 | 34652 | 2.83 |
| 9 | gi|24430421 | 41 kD chloroplast nucleoid DNA binding protein (CND41) [Nicotiana sylvestris] | 528 | 53600 | 0.83 |
| 10 | gi|2541876 | CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum] | 507 | 53413 | 0.96 |
| 11 | gi|62362434 | nectarin IV [Nicotiana langsdorffii x Nicotiana sanderae] | 504 | 46948 | 0.85 |
| 12 | gi|467689 | chitinase/lysozyme [Nicotiana tabacum] | 483 | 41993 | 1.35 |
| 13 | gi|83281191 | putative glycerophosphoryl diester phosphodiesterase family protein [Nicotiana tabacum] | 442 | 81954 | 0.3 |
| 14 | gi|505267 | chitinase, class V [Nicotiana tabacum] | 414 | 41754 | 0.68 |
| 15 | gi|119011 | Glucan endo-1,3-beta-glucosidase, basic vacuolar isoform GLB precursor ((1->3)-beta-glucan endohydrolase) ((1->3)-beta-glucanase) (Beta-1,3-endoglucanase, basic) (Glucanase GLB)[Nicotiana tabacum] | 391 | 40417 | 1.22 |
| 16 | gi|37359706 | LEXYL1 [Solanum lycopersicum] | 385 | 83111 | 0.42 |
| 17 | gi|116342 | Acidic endochitinase Q precursor (Pathogenesis-related protein Q) (PR-Q)[Nicotiana tabacum] | 345 | 27615 | 0.92 |
| 18 | gi|5360263 | NtPRp27 [Nicotiana tabacum] | 337 | 27361 | 0.92 |
| 19 | gi|1167854 | PR protein; osmotin [Nicotiana tabacum] | 335 | 26744 | 1.22 |
| 20 | gi|131017 | Pathogenesis-related protein R minor form precursor (PR-R) (PROB12) (Thaumatin-like protein E2)[Nicotiana tabacum] | 327 | 24535 | 1.06 |
| 21 | gi|3790355 | chitinase 134 [Nicotiana tabacum] | 319 | 29184 | 0.84 |
| 22 | gi|5381253 | peroxidase [Nicotiana tabacum] | 299 | 34348 | 0.52 |
| 23 | gi|37359708 | LEXYL2 [Solanum lycopersicum] | 299 | 68869 | 0.3 |
| 24 | gi|7547630 | pathogen- and wound-inducible antifungal protein CBP20 precursor [Nicotiana tabacum] | 285 | 22153 | 0.91 |
| 25 | gi|116332 | Acidic endochitinase precursor[Nicotiana tabacum] | 279 | 31263 | 0.98 |
| 26 | gi|3913932 | Proteinase inhibitor type-2 precursor (Proteinase inhibitor type II) | 258 | 20970 | 0.96 |
| 27 | gi|1255951 | PS60 [Nicotiana tabacum] | 251 | 60107 | 0.2 |
| 28 | gi|19771 | acidic chitinase PR-P [Nicotiana tabacum] | 241 | 27512 | 0.68 |
| 29 | gi|8919178 | alpha-glucosidase [Solanum tuberosum] | 236 | 104620 | 0.19 |
| 30 | gi|267124 | Thioredoxin H-type 1 (Trx-H1) [Nicotiana tabacum] | 229 | 13947 | 1.1 |
| 31 | gi|100284 | superoxide dismutase (EC 1.15.1.1) (Fe) - curled-leaved tobacco | 215 | 25434 | 0.52 |
| 32 | gi|27803890 | NtPRp27-like protein [Solanum tuberosum] | 211 | 25115 | 0.33 |
| 33 | gi|130840 | Pathogenesis-related protein PR-4B precursor [Nicotiana tabacum] | 210 | 16225 | 0.53 |
| 34 | gi|6538778 | biotic cell death-associated protein [Nicotiana glutinosa] | 201 | 25142 | 0.53 |
| 35 | gi|48375044 | putative mitochondrial malate dehydrogenase [Nicotiana tabacum] | 201 | 22024 | 0.9 |
| 36 | gi|19962 | pathogenesis-related protein 4A [Nicotiana tabacum] | 200 | 16195 | 1.36 |
| 37 | gi|90992878 | phylloplanin [Nicotiana tabacum] | 199 | 11302 | 1.47 |
| 38 | gi|157830095 | Chain A, Pathogenesis-Related Protein 5d From Nicotiana Tabacum | 197 | 22745 | 0.86 |
| 39 | gi|21388550 | putative mitochondrial NAD-dependent malate dehydrogenase [Solanum tuberosum] | 192 | 36144 | 0.49 |
| 40 | gi|5725356 | alpha-D-xylosidase [Tropaeolum majus] | 190 | 104870 | 0.15 |
| 41 | gi|83283995 | fructose-bisphosphate aldolase-like protein [Solanum tuberosum] | 187 | 38594 | 0.31 |
| 42 | gi|30526289 | 29 kDa chitinase-like thermal hysteresis protein [Solanum dulcamara] | 175 | 28827 | 0.64 |
| 43 | gi|77999255 | unknown [Solanum tuberosum] | 169 | 38413 | 0.32 |
| 44 | gi|19944 | unnamed protein product [Nicotiana tabacum] | 165 | 18575 | 1.13 |
| 45 | gi|2497757 | Non-specific lipid-transfer protein 1 precursor (LTP 1) (Pathogenesis-related protein 14) (PR-14) [Nicotiana tabacum] | 164 | 11516 | 0.81 |
| 46 | gi|2213867 | fructose-biphosphate aldolase [Mesembryanthemum crystallinum] | 163 | 38134 | 0.33 |
| 47 | gi|130846 | Basic form of pathogenesis-related protein 1 precursor (PRP 1) [Nicotiana tabacum] | 159 | 19716 | 0.71 |
| 48 | gi|32482806 | putative xyloglucanase inhibitor [Solanum tuberosum] | 159 | 46779 | 0.14 |
| 49 | gi|74355968 | alpha-L-arabinofuranosidase [Raphanus sativus] | 156 | 83723 | 0.14 |
| 50 | gi|786337 | osmotin I=group 5 basic pathogenesis-related protein (N-terminal) [Nicotiana tabacum=tobacco, Samsun NN, Peptide Partial, 25 aa] | 155 | 2696 | 21.45 |
| 51 | gi|130827 | Pathogenesis-related protein 1B precursor (PR-1B) [Nicotiana tabacum] | 145 | 18488 | 1.31 |
| 52 | gi|8439545 | methionine synthase [Solanum tuberosum] | 144 | 84613 | 0.14 |
| 53 | gi|46250719 | pathogenesis-related protein [Nicotiana tabacum] | 144 | 27523 | 0.47 |
| 54 | gi|182410392 | PR1 protein [Solanum lycopersicum] | 131 | 20110 | 0.42 |
| 55 | gi|547733 | Proteinase inhibitor I-B precursor (PI-IB) (Inhibitor of microbial serine proteinases major isoform)[Nicotiana tabacum] | 131 | 11908 | 0.78 |
| 56 | gi|24638017 | Malate dehydrogenase, mitochondrial precursor Fragaria x ananassa | 128 | 35600 | 0.22 |
| 57 | gi|157331729 | unnamed protein product [Vitis vinifera] | 125 | 60362 | 0.2 |
| 58 | gi|115486089 | Os11g0592000 [Oryza sativa (japonica cultivar-group)] | 124 | 16246 | 0.54 |
| 59 | gi|498926 | glucan endo-1,3-beta-D-glucosidase [Solanum lycopersicum] | 121 | 37839 | 0.21 |
| 60 | gi|544202 | Glucan endo-1,3-beta-glucosidase, acidic isoform PR-Q~ precursor ((1->3)-beta-glucan endohydrolase) ((1->3)-beta-glucanase) (Beta-1,3-endoglucanase) (PR-35)[Nicotiana tabacum] | 116 | 36972 | 0.21 |
| 61 | gi|9759007 | pectin methylesterase-like protein [Arabidopsis thaliana] | 114 | 63463 | 0.12 |
| 62 | gi|547743 | Trypsin inhibitor 1 precursor (Trypsin inhibitor I) (NSTI-I)Nicotiana sylvestris  | 114 | 10458 | 0.92 |
| 63 | gi|130828 | Pathogenesis-related protein 1C precursor (PR-1C)Nicotiana sylvestris [Nicotiana tabacum] | 113 | 18571 | 0.76 |
| 64 | gi|7939623 | putative beta-galactosidase [Lycopersicon esculentum] | 110 | 93184 | 0.12 |
| 65 | gi|7672732 | LRR receptor-like protein kinase [Nicotiana tabacum] | 109 | 101724 | 0.07 |
| 66 | gi|58416137 | serpin [Cucumis sativus] | 108 | 42576 | 0.09 |
| 67 | gi|146762261 | beta-xylosidase/alpha-L-arabinosidase [Medicago sativa subsp. x varia] | 108 | 83674 | 0.09 |
| 68 | gi|130826 | Pathogenesis-related protein 1A precursor (PR-1A)[Nicotiana tabacum] | 106 | 18562 | 0.76 |
| 69 | gi|586099 | Thioredoxin H-type 2 (Trx-H2)[Nicotiana tabacum] | 104 | 13039 | 0.62 |
| 70 | gi|18403247 | receptor protein kinase-related [Arabidopsis thaliana] | 103 | 27846 | 0.29 |
| 71 | gi|116337 | Basic endochitinase precursor[Nicotiana tabacum] | 102 | 32373 | 0.25 |
| 72 | gi|83778371 | expansin-like protein precursor [Solanum tuberosum] | 99 | 28340 | 0.46 |
| 73 | gi|688429 | tumor-related protein [Nicotiana glauca x Nicotiana langsdorffii] | 96 | 13798 | 1.12 |
| 74 | gi|37951323 | BYJ15 [Nicotiana tabacum] | 95 | 16921 | 0.51 |
| 75 | gi|75153341 | NAD(P)H:quinone oxidoreductase (NAD(P)H:QR) | 94 | 21302 | 0.39 |
| 76 | gi|157355185 | unnamed protein product [Vitis vinifera] | 92 | 39303 | 0.1 |
| 77 | gi|82568706 | Serine carboxypeptidase [Prunus mume] | 88 | 55936 | 0.07 |
| 78 | gi|75755983 | TO76-23 [Taraxacum officinale] | 87 | 12020 | 0.33 |
| 79 | gi|157328520 | unnamed protein product [Vitis vinifera] | 84 | 33094 | 0.11 |
| 80 | gi|40288318 | putative 6 repeat proteinase inhibitor [Nicotiana attenuata] | 83 | 46464 | 0.08 |
| 81 | gi|113531030 | properoxidase [Picea abies] | 81 | 32859 | 0.24 |
| 82 | gi|15219493 | peroxidase, putative [Arabidopsis thaliana] | 80 | 37717 | 0.1 |
| 83 | gi|15234910 | CYTC-2 (CYTOCHROME C-2); electron carrier [Arabidopsis thaliana] | 74 | 12231 | 0.33 |
| 84 | gi|121663827 | class IV chitinase [Nicotiana tabacum] | 76 | 29885 | 0.38 |
| 85 | gi|119012 | Glucan endo-1,3-beta-glucosidase, acidic isoform GI9 precursor ((1->3)-beta-glucan endohydrolase) ((1->3)-beta-glucanase) (Beta-1,3-endoglucanase) (PR-2B) (PR-36) | 74 | 37699 | 0.1 |
| 86 | gi|123965222 | germin-like protein [Capsicum chinense] | 68 | 21032 | 0.18 |
| 87 | gi|147820458 | hypothetical protein [Vitis vinifera] | 65 | 64811 | 0.06 |
| 88 | gi|16903357 | endo-beta-1,4-glucanase precursor [Nicotiana tabacum] | 62 | 34512 | 0.14 |
| 89 | gi|18447763 | putative serine carboxypeptidase precursor [Gossypium hirsutum] | 57 | 56558 | 0.14 |
| 90 | gi|62909955 | peroxidase [Pisum sativum] | 54 | 34257 | 0.11 |
| 91 | gi|15231303 | ATEXLA1 (ARABIDOPSIS THALIANA EXPANSIN-LIKE A1) [Arabidopsis thaliana] | 54 | 28683 | 0.13 |
| 92 | gi|146216710 | leucine-rich repeat protein [Nicotiana tabacum] | 52 | 21382 | 0.18 |
| 93 | gi|83584404 | EIN3-binding F-box protein 2 [Lycopersicon esculentum] | 52 | 71154 | 0.05 |
| 94 | gi|417371 | Non-specific lipid-transfer protein 2 precursor (LTP 2)[Nicotiana tabacum] | 50 | 11407 | 0.35 |
| 95 | gi|55294668 | putative ML domain protein [Nicotiana glauca] | 49 | 20139 | 0.19 |
| 96 | gi|125573356 | hypothetical protein OsJ\_004696 [Oryza sativa (japonica cultivar-group)] | 48 | 43722 | 0.08 |
| 97 | gi|157341025 | unnamed protein product [Vitis vinifera] | 48 | 43416 | 0.09 |

Supplementary Table 2. Proteins identified in ‘CV-N without NAA in MS’ sample. Recombinant protein is highlighted in red.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Hit number** | **Database access number** | **Protein description** | **Mascot score** | **Mass** | **emPAI** |
| 1 | gi|63002585 | peroxidase [Nicotiana tabacum] | 885 | 35563 | 4.01 |
| 2 | gi|75315324 | Peroxidase N1 precursor (Peroxidase B2) (Peroxidase B3) | 769 | 35709 | 3.49 |
| 3 | gi|116314 | Endochitinase A precursor (CHN-A) | 691 | 35134 | 2.39 |
| 4 | gi|63253080 | peroxidase [Nicotiana tabacum] | 531 | 38505 | 1.78 |
| 5 | gi|64976605 | peroxidase [Nicotiana tabacum] | 521 | 38740 | 1.77 |
| 6 | gi|62362434 | nectarin IV [Nicotiana langsdorffii x Nicotiana sanderae] | 498 | 46948 | 0.85 |
| 7 | gi|467689 | chitinase/lysozyme [Nicotiana tabacum] | 498 | 41993 | 0.98 |
| 8 | gi|226121 | glucan endoglucosidase [Nicotiana tabacum] | 468 | 39137 | 1.28 |
| 9 | gi|129837 | Lignin-forming anionic peroxidase precursor (TOPA) [Nicotiana tabacum] | 446 | 34652 | 1.28 |
| 10 | gi|131015 | Pathogenesis-related protein R major form precursor (Thaumatin-like protein E22) [Nicotiana tabacum] | 445 | 24650 | 1.74 |
| 11 | gi|108752035|gb|ABG02914.1| | cyanovirin-N [synthetic construct] | 422 | 10923 | 7.87 |
| 12 | gi|148299083 | subtilisin-like protease [Nicotiana tabacum] | 415 | 81137 | 0.37 |
| 13 | gi|505267 | chitinase, class V [Nicotiana tabacum] | 401 | 41754 | 0.68 |
| 14 | gi|19970 | prb-1b [Nicotiana tabacum] | 357 | 20107 | 1.86 |
| 15 | gi|182410392 | PR1 protein [Solanum lycopersicum] | 334 | 20110 | 1.86 |
| 16 | gi|116332 | Acidic endochitinase precursor [Nicotiana tabacum] | 332 | 31263 | 0.77 |
| 17 | gi|19859 | glucan endo-1,3-beta-glucosidase [Nicotiana tabacum] | 316 | 37835 | 0.46 |
| 18 | gi|131017 | Pathogenesis-related protein R minor form precursor (PR-R) (PROB12) (Thaumatin-like protein E2) [Nicotiana tabacum] | 300 | 24535 | 1.06 |
| 19 | gi|116342 | Acidic endochitinase Q precursor (Pathogenesis-related protein Q) (PR-Q) | 287 | 27615 | 0.9 |
| 20 | gi|130846 | Basic form of pathogenesis-related protein 1 precursor (PRP 1) [Nicotiana tabacum] | 282 | 19716 | 1.04 |
| 21 | gi|19783 | osmotin [Nicotiana tabacum] | 266 | 27110 | 0.69 |
| 22 | gi|157355185 | unnamed protein product [Vitis vinifera] | 215 | 39303 | 0.44 |
| 23 | gi|7547630 | pathogen- and wound-inducible antifungal protein CBP20 precursor [Nicotiana tabacum] | 207 | 22153 | 0.62 |
| 24 | gi|3913932 | Proteinase inhibitor type-2 precursor (Proteinase inhibitor type II) [Nicotiana tabacum] | 207 | 20970 | 0.96 |
| 25 | gi|19771 | acidic chitinase PR-P [Nicotiana tabacum] | 203 | 27512 | 0.47 |
| 26 | gi|2497757 | Non-specific lipid-transfer protein 1 precursor (LTP 1) (Pathogenesis-related protein 14) (PR-14) [Nicotiana tabacum] | 194 | 11516 | 0.34 |
| 27 | gi|119012 | Glucan endo-1,3-beta-glucosidase, acidic isoform GI9 precursor ((1->3)-beta-glucan endohydrolase) ((1->3)-beta-glucanase) (Beta-1,3-endoglucanase) (PR-2B) (PR-36) [Nicotiana tabacum] | 182 | 37699 | 0.46 |
| 28 | gi|83281191 | putative glycerophosphoryl diester phosphodiesterase family protein [Nicotiana tabacum] | 179 | 81954 | 0.14 |
| 29 | gi|130840 | Pathogenesis-related protein PR-4B precursor [Nicotiana tabacum] | 178 | 16225 | 1.49 |
| 30 | gi|30526289 | 29 kDa chitinase-like thermal hysteresis protein [Solanum dulcamara] | 175 | 28827 | 0.45 |
| 31 | gi|6538778 | biotic cell death-associated protein [Nicotiana glutinosa] | 174 | 25142 | 0.53 |
| 32 | gi|37359708 | LEXYL2 [Solanum lycopersicum] | 173 | 68869 | 0.17 |
| 33 | gi|218308 | peroxidase [Nicotiana tabacum] | 173 | 34504 | 0.51 |
| 34 | gi|19962 | pathogenesis-related protein 4A [Nicotiana tabacum] | 172 | 16195 | 1.36 |
| 35 | gi|547743 | Trypsin inhibitor 1 precursor (Trypsin inhibitor I) (NSTI-I) | 165 | 10458 | 1.65 |
| 36 | gi|1255951 | PS60 [Nicotiana tabacum] | 162 | 60107 | 0.2 |
| 37 | gi|5381253 | peroxidase [Nicotiana tabacum] | 161 | 34348 | 0.23 |
| 38 | gi|32482806 | putative xyloglucanase inhibitor [Solanum tuberosum] | 146 | 46779 | 0.17 |
| 39 | gi|21495 | chitinase; endochitinase [Solanum tuberosum] | 145 | 28777 | 0.28 |
| 40 | gi|11528439 | chitinase [Fragaria x ananassa] | 144 | 28307 | 0.29 |
| 41 | gi|2541876 | CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum] | 142 | 53413 | 0.22 |
| 42 | gi|547732 | Proteinase inhibitor I-A precursor (PI-IA) (Inhibitor of microbial serine proteinases minor isoform) | 132 | 11872 | 0.78 |
| 43 | gi|37359706 | LEXYL1 [Solanum lycopersicum] | 126 | 83111 | 0.09 |
| 44 | gi|21668053 | non-specific lipid transfer protein [Nicotiana tabacum] | 123 | 11723 | 0.14 |
| 45 | gi|113531030 | properoxidase [Picea abies] | 117 | 32859 | 0.24 |
| 46 | gi|547733 | Proteinase inhibitor I-B precursor (PI-IB) (Inhibitor of microbial serine proteinases major isoform) | 111 | 11908 | 0.78 |
| 47 | gi|90992878 | phylloplanin [Nicotiana tabacum] | 108 | 11302 | 0.83 |
| 48 | gi|157355449 | unnamed protein product [Vitis vinifera] | 107 | 34368 | 0.23 |
| 49 | gi|146216710 | leucine-rich repeat protein [Nicotiana tabacum] | 105 | 21382 | 0.39 |
| 50 | gi|76446068 | trypsin proteinase inhibitor precursor [Nicotiana corymbosa] | 101 | 16198 | 0.54 |
| 51 | gi|119507463 | pectin methylesterase 2 [Pyrus communis] | 99 | 62606 | 0.12 |
| 52 | gi|218304 | PR1a protein precursor [Nicotiana tabacum] | 97 | 18578 | 0.46 |
| 53 | gi|18403247 | receptor protein kinase-related [Arabidopsis thaliana] | 97 | 27846 | 0.29 |
| 54 | gi|115486089 | Os11g0592000 [Oryza sativa (japonica cultivar-group)] | 97 | 16246 | 0.54 |
| 55 | gi|417371 | Non-specific lipid-transfer protein 2 precursor (LTP 2) | 88 | 11407 |   |
| 56 | gi|688429 | tumor-related protein [Nicotiana glauca x Nicotiana langsdorffii] | 87 | 13798 | 0.65 |
| 57 | gi|267124 | Thioredoxin H-type 1 (Trx-H1) | 87 | 13947 | 0.28 |
| 58 | gi|19948 | PR1b preprotein [Nicotiana tabacum] | 86 | 16693 | 0.52 |
| 59 | gi|169555 | anionic peroxidase | 82 | 37324 | 0.2 |
| 60 | gi|85813772 | xylan 1,4-beta-xylosidase [Populus alba x Populus tremula] | 79 | 81424 | 0.05 |
| 61 | gi|7939581 | thionin like protein [Nicotiana tabacum] | 76 | 8571 | 0.48 |
| 62 | gi|10798758 | P-rich protein NtEIG-C29 [Nicotiana tabacum] | 75 | 13376 | 0.29 |
| 63 | gi|32351452 | class III peroxidase [Gossypium hirsutum] | 75 | 35399 |   |
| 64 | gi|172046673 | Unknown protein 1 | 63 | 1031 | 7.22 |
| 65 | gi|15231303 | ATEXLA1 (ARABIDOPSIS THALIANA EXPANSIN-LIKE A1) [Arabidopsis thaliana] | 60 | 28683 | 0.13 |
| 66 | gi|536789 | PR-1c protein [Nicotiana tabacum] | 58 | 17717 | 0.21 |
| 67 | gi|82568706 | Serine carboxypeptidase [Prunus mume] | 57 | 55936 | 0.07 |
| 68 | gi|498926 | glucan endo-1,3-beta-D-glucosidase [Solanum lycopersicum] | 56 | 37839 | 0.1 |
| 69 | gi|15219493 | peroxidase, putative [Arabidopsis thaliana] | 56 | 37717 | 0.1 |
| 70 | gi|62732994 | Ribosome inactivating protein, putative [Oryza sativa (japonica cultivar-group)] | 54 | 46294 | 0.08 |
| 71 | gi|25044849 | peroxidase [Ananas comosus] | 50 | 35591 | 0.11 |
| 72 | gi|6716760 | methionine synthase [Coffea arabica] | 49 | 24430 | 0.16 |
| 73 | gi|115489060 | Os12g0560400 [Oryza sativa (japonica cultivar-group)] | 48 | 11736 | 0.34 |
| 74 | gi|15218665 | peroxidase, putative [Arabidopsis thaliana] | 47 | 34310 | 0.11 |
|  |  |  |  |  |  |