

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|----|--|----------------------------|-----------|--------------|----------------|---|
| 1 | white Lupin proteoid root ESTs, sorted by categories | | | | | |
| 2 | I METABOLISM | | | | | |
| 3 | CARBON AND ENERGY METABOLISM: category 1 | | | | | |
| 4 | CARBON METABOLISM: category 1a | | | | | |
| 5 | | | | | | |
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 7 | E018 | CA410748 | 535 | 198 | 1.00E-50 | ENOLASE (EC 4.2.1.11) |
| 8 | E027 | CA410757 | 464 | 152 | 1.00E-28 | ALPHA-MANNOSIDASE |
| 9 | E047 | CA410777 | 477 | 173 | 4.00E-43 | PYRUVATE DESCARBOXYLASE ISOZYME (EC 4.1.1.1.) |
| 10 | E057 | CA410786 | 514 | 159 | 5.00E-52 | FRUCTOSE -BISPHOSPHATE ALDOLASE |
| 11 | E068 | CA410797 | 526 | 218 | 8.00E-57 | PYRUVATE DEHYDROGENASE E1(EC 1.2.4.1) |
| 12 | E094 | CA410820 | 455 | 75 | 2.00E-13 | GLYCERALDEHYDE 3-PHPSPHATE DEHYDROGENASE |
| 13 | E100 | CA410825 | 534 | 169 | 7.00E-42 | GLYCERALDEHYDE 3-PHPSPHATE DEHYDROGENASE |
| 14 | E110 | CA410835 | 489 | 141 | 2.00E-33 | HYP. PROTEIN/UDP-galactose-4-epimerase |
| 15 | E111 | CA410836 | 427 | 75 | 2.00E-13 | GLYCERALDEHYDE 3-PHPSPHATE DEHYDROGENASE |
| 16 | E113 | CA410838 | 458 | 151 | 2.00E-36 | NAD-DEPENDENT MALIC ENZYME ISOFORM MITOCH |
| 17 | E119 | CA410844 | 385 | 131 | 2.00E-30 | BETA-GALACTOSIDASE (EC 2.2.1.23) |
| 18 | E125 | CA410850 | 491 | 51 | 3.00E-06 | RIBOSE 5-PHOSPHATE ISOMERASE (EC 5.3.1.6) |
| 19 | E136 | CA410861 | 545 | 127 | 2.00E-29 | TRANSALDOLASE-LIKE PROTEIN |
| 20 | E142 | CA410867 | 514 | 180 | 2.00E-45 | ISOCITRATE DEHYDROGENASE (NADP) (EC 1.1.1.42) |
| 21 | E147 | CA410872 | 434 | 158 | 1.00E-38 | GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE |
| 22 | E170 | CA526339 | 492 | 140 | 3.00E-33 | P FRUCTOSE BISPHOSPHATE ALDOLASE |
| 23 | E171 | CA410895 | 486 | 155 | 8.00E-38 | CYTOSOLIC MALATE DEHYDROGENASE (EC 1.1.1.37) |
| 24 | E180 | CA410904 | 468 | 116 | 2.00E-26 | INOSITOL MONOPHOSPHATASE-LIKE PROTEIN |
| 25 | E185 | CA410909 | 437 | 56 | 1.00E-07 | PYRUVATE DEHYDROGENASE E1 BETA SUBUNIT |
| 26 | E241 | CA410959 | 404 | 144 | 2.00E-34 | 2,3-BISPHOSPHOGLYCERATE-INDEPENDENT P-GLYCER |
| 27 | E242 | CA410960 | 416 | 132 | 1.00E-30 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 28 | E285 | CA411001 | 303 | 62 | 2.00E-09 | ISOCITRATE DEHYDROGENASE (NAD+) |
| 29 | E292 | CA411008 | 452 | 147 | 3.00E-35 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 30 | E295 | CA411011 | 455 | 144 | 3.00E-34 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 31 | E304 | CA411018 | 452 | 150 | 3.00E-36 | FRUCTOSE BISPHOSPHATE ALDOLASE |
| 32 | E317 | CA411029 | 494 | 174 | 2.00E-43 | UDP-GLUCOSE PROTEIN TRANSGLUCOSYLASE |
| 33 | E318 | CA411030 | 453 | 163 | 5.00E-40 | UDP-GLUCOSE PROTEIN TRANSGLUCOSYLASE |
| 34 | E327 | CA411039 | 434 | 156 | 4.00E-38 | ALPHA-N-ACETYLGLUCOSAMINIDASE |
| 35 | E359 | CA411071 | 459 | 185 | 1.00E-46 | ISOCITRATE DEHYDROGENASE (NADP) |
| 36 | E379 | CA411088 | 462 | 144 | 3.00E-34 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 37 | E393 | CA411100 | 752 | 264 | 1.00E-70 | BETA-GALACTOSIDASE (EC 3.2.1.23) |
| 38 | E395 | CA411102 | 756 | 171 | 8.00E-43 | PUTATIVE DEHYDROGENASE |
| 39 | E433 | CA411140 | 750 | 247 | 1.00E-65 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 40 | E440 | CA411147 | 741 | 238 | 5.00E-63 | GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE |
| 41 | E441 | CA411148 | 764 | 232 | 9.00E-61 | DIHYDROLIPOAMIDE 5 ACETYLTRANSFERASE |
| 42 | E447 | CA411154 | 704 | 79 | 9.00E-15 | MALATE DEHYDROGENASE |
| 43 | E539 | CA411244 | 555 | 163 | 4.00E-40 | NAD-DEPENDIENT ISOCITRATE DEHYDROGENASE |
| 44 | E549 | CA411254 | 614 | 119 | 6.00E-27 | GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE |
| 45 | E625 | CA411327 | 584 | 132 | 5.00E-38 | GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE |
| 46 | E640 | CA411342 | 706 | 229 | 3.00E-60 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 47 | E696 | CA411397 | 636 | 115 | 9.00E-26 | GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE |
| 48 | E697 | CA411398 | 732 | 164 | 3.00E-40 | DIHYDRODIPICOLINATE SYNTHASE (EC 4.2.1.5) |
| 49 | E713 | CA411414 | 747 | 233 | 1.00E-62 | TRANSKETOLASE, CHLOROPLAST |
| 50 | E724 | CA411425 | 726 | 235 | 4.00E-62 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 51 | E736 | CA411437 | 727 | 234 | 1.00E-61 | FRUCTOSE-BISPHOSPHATE ALDOLASE |
| 52 | E746 | CA411446 | 718 | 159 | 8.00E-39 | ATP CITRATE-LYASE |

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| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 53 | E788 | CA411487 | 674 | 192 | 7..00E-49 | INOSITOL MONOPHOSPHATASE-LIKE PROTEIN |
| 54 | E790 | CA411489 | 715 | 218 | 9.00E-57 | GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE |
| 55 | E819 | CA411517 | 740 | 279 | 3.00E-75 | PHOSPHOENOLPYRUVATE CARBOXYLASE |
| 56 | E845 | CA411543 | 768 | 227 | 3.00E-59 | SUCCINYL-COA-LIGASE BETA SUBUNIT |
| 57 | | | | | | |
| 58 | ENERGY METABOLISM/Electron Transfer: category 1b | | | | | |
| 59 | E001 | CA410731 | 537 | 135 | 1.00E-31 | 2-CYS PEROXIREDOXIN-LIKE PROTEIN |
| 60 | E005 | CA410735 | 481 | 105 | 1.00E-36 | NADH-UBIQUINONE REDUCTASE |
| 61 | E007 | CA410737 | 464 | 106 | 8.00E-23 | |
| 62 | E033 | CA410763 | 490 | 110 | 3.00E-24 | 2-CYS PEROXIREDOXIN-LIKE PROTEIN |
| 63 | E043 | CA410773 | 492 | 91 | 3.00E-18 | P ADENYLATE KINASE |
| 64 | E075 | CA410802 | 534 | 210 | 3.00E-54 | VACUOLAR ATP SYNTHASE SUBUNIT B |
| 65 | E108 | CA410833 | 496 | 124 | 2.00E-28 | VACUOLAR H+-ATP SYNTHASE PROTEOLIPID SUBUNIT |
| 66 | E179 | CA410903 | 477 | 147 | 2.00E-35 | ADENINE NUCLEOTIDE TRANSLOCATOR |
| 67 | E190 | CA410912 | 446 | 129 | 1.00E-29 | VACUOLAR H+-ATPASE B SUBUNIT |
| 68 | E226 | CA410945 | 483 | 115 | 1.00E-25 | ATP SYNTHASE GAMMA CHAIN |
| 69 | E227 | CA410946 | 447 | 71 | 4.00E-12 | 14-3-3-LIKE PROTEIN |
| 70 | E279 | CA410996 | 416 | 134 | 3.00E-21 | BASIC BLUE COPPER PROTEIN |
| 71 | E289 | CA411005 | 428 | 122 | 1.00E-27 | VACUOLAR ATP SYNTHASE SUBUNIT B |
| 72 | E364 | CA411075 | 453 | 155 | 1.00E-37 | WHITE-FLY INDUCED/respiratory burst oxidase F100 |
| 73 | E376 | CA411086 | 419 | 58 | 3.00E-08 | ADP,ATP CARRIER PROTEIN |
| 74 | E461 | CA411168 | 722 | 192 | 5.00E-49 | CYTOCHROME B561 |
| 75 | E491 | CA411197 | 581 | 187 | 3.00E-47 | 14-3-3-LIKE PROTEIN |
| 76 | E531 | CA411236 | 703 | 241 | 6.00E-64 | VACUOLAR ATP SYNTHASE |
| 77 | E562 | CA411267 | 649 | 196 | 4.00E-50 | 14-3-3-LIKE PROTEIN |
| 78 | E590 | CA411294 | 687 | 171 | 1.00E-42 | ATP SYNTHASE BETA CHAIN |
| 79 | E741 | CA411442 | 709 | 219 | 4.00E-57 | CYTOCHROME C1 |
| 80 | E747 | CA411447 | 649 | 132 | 6.00E-31 | CYTOCHROME C OXIDASE |
| 81 | E752 | CA411452 | 568 | 146 | 6.00E-35 | CYTOCHROME C |
| 82 | E798 | CA411497 | 730 | 111 | 1.00E-24 | GLUTAREDOXIN-LIKE PROTEIN |
| 83 | E810 | CA411508 | 751 | 236 | 2.00E-62 | H(+)-TRANSPORTING ATPASE |
| 84 | E822 | CA411520 | 716 | 219 | 4.00E-57 | 14-3-3 PROTEIN |
| 85 | E828 | CA411526 | 693 | 151 | 1.00E-36 | NADH DEHYDROGENASE CHAIN CI-18 |
| 86 | E835 | CA411533 | 438 | 80 | 6.00E-15 | UBIQUINOL-CYTOCHROME-C REDUCTASE |
| 87 | | | | | | |
| 88 | NUCLEOTIDE AND NUCLEIC ACID METABOLISM:2 | | | | | |
| 89 | E009 | CA410739 | 509 | 182 | 8.00E-46 | 60S RIBOSOMAL PROTEIN L12 |
| 90 | E010 | CA410740 | 551 | 174 | 2.00E-43 | HISTONE H3 |
| 91 | E022 | CA410752 | 441 | 160 | 3.00E-39 | UBIQUITIN |
| 92 | E035 | CA410765 | 442 | 153 | 3.00E-37 | HISTONE H3 |
| 93 | E036 | CA410766 | 295 | 69 | 1.00E-11 | 40S RIBOSOMAL PROTEIN S3 |
| 94 | E037 | CA410767 | 462 | 87 | 4.00E-17 | ELONGATION FACTOR 1-BETA |
| 95 | E039 | CA410769 | 490 | 153 | 5.00E-37 | 60S RIBOSOMAL PROTEIN-LIKE |
| 96 | E046 | CA410776 | 474 | 163 | 5.00E-40 | 40S RIBOSOMAL PROTEIN S3 |
| 97 | E056 | CA410785 | 384 | 66 | 2.00E-10 | RIBOSOMAL PROTEIN S30 HOMOLOG 40S RIBOS. S30 |
| 98 | E060 | CA410789 | 466 | 138 | 2.00E-32 | 40S RIBOSOMAL PROTEIN S18 |
| 99 | E062 | CA410791 | 451 | 102 | 1.00E-21 | 80S RIBOSOMAL PROTEIN L31 |
| 100 | E069 | CA410798 | 555 | 174 | 2.00E-43 | 60S RIBOSOMAL PROTEIN L17 |
| 101 | E084 | CA410811 | 515 | 180 | 4.00E-45 | ELONGATION FACTOR 1-ALPHA |
| 102 | E088 | CA410815 | 254 | 48 | 3.00E-05 | UBIQUITIN PRECURSOR |
| 103 | E091 | CA410818 | 591 | 88 | 2.00E-17 | ARGININE METHYLTRANSFERASE-LIKE PROTEIN |

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| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 104 | E099 | CA526338 | 385 | 99 | 7.00E-21 | UBIQUITIN |
| 105 | E105 | CA410830 | 496 | 121 | 1.00E-27 | 60S RIBOSOMAL PROTEIN L37 |
| 106 | E116 | CA410841 | 400 | 146 | 8.00E-35 | 60S RIBOSOMAL PROTEIN L2 |
| 107 | E130 | CA410855 | 454 | 171 | 2.00E-42 | RIBOSOMAL PROTEIN |
| 108 | E133 | CA410858 | 501 | 141 | 2.00E-33 | RIBOSOMAL PROTEIN S8 |
| 109 | E140 | CA410865 | 421 | 139 | 6.00E-33 | 60S RIBOSOMAL PROTEIN L27 |
| 110 | E155 | CA410880 | 469 | 163 | 5.00E-40 | 40S RIBOSOMAL PROTEIN S23 |
| 111 | E162 | CA410887 | 465 | 162 | 8.00E-40 | UBIQUITIN/RIBOSOMAL PROTEIN |
| 112 | E193 | CA410914 | 435 | 104 | 2.00E-22 | HISTONE H2A |
| 113 | E196 | CA410916 | 441 | 74 | 4.00E-13 | UBIQUITIN-CONJUGATING ENZYME E2 (EC 6.3) |
| 114 | E201 | CA410921 | 445 | 141 | 2.00E-33 | 40S RIBOSOMAL PROTEIN S7 |
| 115 | E203 | CA410923 | 432 | 154 | 2.00E-37 | 60S RIBOSOME PROTEIN L19-LIKE |
| 116 | E207 | CA410926 | 450 | 171 | 2.00E-44 | ARGININE DECARBOXYLASE (EC 4.1.1.19) |
| 117 | E209 | CA410928 | 473 | 139 | 1.00E-32 | UBIQUITIN-CONJUGATING ENZYME E2 (EC 6.3.2.19) |
| 118 | E210 | CA410929 | 449 | 161 | 2.00E-39 | 60S RIBOSOMAL PROTEIN L24 |
| 119 | E220 | CA410939 | 462 | 171 | 2.00E-42 | 40S RIBOSOMAL PROTEIN S4 |
| 120 | E221 | CA410940 | 442 | 160 | 3.00E-39 | 40S RIBOSOMAL PROTEIN |
| 121 | E224 | CA410943 | 461 | 149 | 1.00E-35 | 60S RIBOSOMAL PROTEIN L3 |
| 122 | E225 | CA410944 | 425 | 100 | 8.00E-21 | RIBOSOMAL PROTEIN S27 |
| 123 | E228 | CA410947 | 453 | 111 | 2.00E-24 | SUBTILISIN PRECURSOR |
| 124 | E246 | CA410964 | 423 | 135 | 1.00E-35 | 60S RIBOSOMAL PROTEIN L1 |
| 125 | E255 | CA410973 | 431 | 125 | 9.00E-29 | RIBOSOMAL PROTEIN S8 |
| 126 | E258 | CA410976 | 527 | 119 | 7.00E-27 | RIBOSOMAL PROTEIN L26 |
| 127 | E260 | CA410978 | 439 | 149 | 1.00E-35 | 60S RIBOSOMAL PROTEIN L30 |
| 128 | E264 | CA410982 | 439 | 132 | 1.00E-30 | RIBOSOMAL PROTEIN S8 |
| 129 | E272 | CA410990 | 399 | 69 | 1.00E-12 | HISTONE H2B |
| 130 | E276 | CA410994 | 429 | 127 | 3.00E-29 | 60S RIBOSOMAL PROTEIN L26 |
| 131 | E278 | CA526345 | 402 | 111 | 2.00E-24 | 60S RIBOSOMAL PROTEIN L7A |
| 132 | E280 | CA526346 | 415 | 99 | 6.00E-21 | CYSTEINE PROTEINASE |
| 133 | E281 | CA410997 | 415 | 146 | 6.00E-35 | 60S RIBOSOMAL PROTEIN L17-1 |
| 134 | E287 | CA411003 | 413 | 140 | 4.00E-33 | 40S RIBOSOMAL PROTEIN S20 |
| 135 | E288 | CA411004 | 417 | 156 | 7.00E-38 | 60S RIBOSOMAL PROTEIN LI3A |
| 136 | E291 | CA411007 | 447 | 172 | 7.00E-43 | RIBOSOMAL PROTEIN L18A |
| 137 | E302 | CA411016 | 345 | 74 | 7.00E-15 | TRANSLATION FACTOR SUI1 |
| 138 | E311 | CA411024 | 485 | 183 | 5.00E-46 | POLYUBIQUITIN |
| 139 | E314 | CA411026 | 450 | 108 | 1.00E-23 | ALKYLATED DNA REPAIR PROTEIN |
| 140 | E316 | CA411028 | 408 | 139 | 9.00E-36 | 40S RIBOSOMAL PROTEIN S4 |
| 141 | E330 | CA411042 | 405 | 145 | 2.00E-34 | GUANINE NUCLEOTIDE-BINDING PROTEIN |
| 142 | E331 | CA411043 | 429 | 150 | 5.00E-36 | 40S RIBOSOMAL PROTEIN S24 |
| 143 | E339 | CA411051 | 484 | 108 | 2.00E-23 | 60S RIBOSOMAL PROTEIN L22 |
| 144 | E344 | CA411056 | 436 | 161 | 2.00E-39 | UBIQUITIN-CONJUGATING ENZYME |
| 145 | E350 | CA411062 | 405 | 134 | 2.00E-31 | RIBOSOMAL PROTEIN L32 |
| 146 | E352 | CA411064 | 464 | 127 | 3.00E-29 | 40S RIBOSOMAL PROTEIN S12 |
| 147 | E354 | CA411066 | 429 | 139 | 1.00E-32 | L3 RIBOSOMAL PROTEIN |
| 148 | E363 | CA411074 | 362 | 113 | 5.00E-25 | ELONGATION FACTOR-1 ALPHA |
| 149 | E372 | CA526349 | 435 | 148 | 1.00E-35 | POLYUBIQUITIN |
| 150 | E388 | CA411097 | 676 | 187 | 1.00E-47 | ELONGATION FACTOR-1 ALPHA |
| 151 | E400 | CA411107 | 739 | 202 | 5.00E-52 | UBIQUITIN-CONJUGATING ENZYME (EC 6.3.2.19) |
| 152 | E401 | CA411108 | 614 | 188 | 1.00E-47 | 40S RIBOSOMAL PROTEIN S23 |
| 153 | E403 | CA411110 | 750 | 216 | 2.00E-56 | RIBOSOMAL PROTEIN S7 |
| 154 | E407 | CA411114 | 191 | 85 | 2.00E-16 | 60S RIBOSOMAL PROTEIN L10 |

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| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 155 | E425 | CA411132 | 649 | 144 | 2.00E-24 | RIBOSOMAL PROTEIN L23A |
| 156 | E426 | CA411133 | 720 | 226 | 3.00E-59 | 60S RIBOSOMAL PROTEIN L15 |
| 157 | E438 | CA411145 | 656 | 244 | 1.00E-64 | 40S RIBOSOMAL PROTEIN SA |
| 158 | E442 | CA411149 | 490 | 70 | 6.00E-12 | 60S ACIDIC RIBOSOMAL PROTEIN |
| 159 | E444 | CA411151 | 671 | 192 | 7.00E-49 | 60S RIBOSOMAL PROTEIN L12 |
| 160 | E448 | CA411155 | 719 | 259 | 2.00E-69 | 60S RIBOSOMAL PROTEIN L13A |
| 161 | E451 | CA411158 | 726 | 218 | 5.00E-57 | 40S RIBOSOMAL PROTEIN S2 |
| 162 | E453 | CA411160 | 737 | 234 | 7.00E-62 | 40S RIBOSOMAL PROTEIN S4 |
| 163 | E454 | CA411161 | 575 | 137 | 3.00E-32 | 40S RIBOSOMAL PROTEIN S2 |
| 164 | E456 | CA411163 | 700 | 122 | 5.00E-28 | POLY (A) BINDING PROTEIN |
| 165 | E469 | CA411175 | 738 | 192 | 6.00E-49 | 40S RIBOSOMAL PROTEIN S11 |
| 166 | E470 | CA411176 | 723 | 207 | 1.00E-53 | ELONGATION FACTOR |
| 167 | E471 | CA411177 | 636 | 149 | 4.00E-36 | RIBOSOMAL PROTEIN L11 |
| 168 | E476 | CA411182 | 737 | 237 | 1.00E-62 | 40S RIBOSOMAL PROTEIN S9 |
| 169 | E477 | CA411183 | 706 | 140 | 2.00E-33 | 40S RIBOSOMAL PROTEIN S12 |
| 170 | E482 | CA411188 | 555 | 157 | 2.00E-38 | 60S RIBOSOMAL PROTEIN L26 |
| 171 | E486 | CA411192 | 655 | 115 | 7.00E-26 | 60S RIBOSOMAL PROTEIN |
| 172 | E494 | CA411200 | 605 | 69 | 1.00E-11 | 60S ACIDIC RIBOSOMAL PROTEIN |
| 173 | E497 | CA411203 | 723 | 280 | 1.00E-75 | RIBOSOMAL PROTEIN L2 |
| 174 | E503 | CA411209 | 618 | 160 | 3.00E-39 | RIBOSOMAL PROTEIN S9 |
| 175 | E504 | CA411210 | 634 | 149 | 4.00E-36 | RIBOSOMAL PROTEIN L11 |
| 176 | E506 | CA526353 | 743 | 232 | 3.00E-61 | 60S RIBOSOMAL PROTEIN L1 |
| 177 | E508 | CA411213 | 722 | 189 | 7.00E-48 | 40S RIBOSOMAL PROTEIN S23 |
| 178 | E510 | CA411215 | 748 | 235 | 5.00E-62 | 60S RIBOSOMAL PROTEIN L9 |
| 179 | E512 | CA411217 | 687 | 130 | 3.00E-30 | POLY (A) BINDING PROTEIN |
| 180 | E515 | CA411220 | 708 | 198 | 6.00E-51 | UBIQUITIN-CONJUGATING PROTEIN |
| 181 | E527 | CA411232 | 530 | 166 | 4.00E-41 | UBIQUITIN EXTENSION PROTEIN |
| 182 | E537 | CA411242 | 626 | 121 | 1.00E-27 | RIBOSOMAL PROTEIN L2 |
| 183 | E557 | CA411262 | 704 | 167 | 1.00E-41 | 40S RIBOSOMAL PROTEIN S11 |
| 184 | E566 | CA411271 | 454 | 90 | 5.00E-18 | CYSTEINE PROTEINASE INHIBITOR |
| 185 | E578 | CA411282 | 478 | 100 | 7.00E-21 | RIBOSOMAL PROTEIN S27 |
| 186 | E582 | CA411286 | 392 | 64 | 4.00E-10 | RIBOSOMAL PROTEIN S30 |
| 187 | E585 | CA411289 | 537 | 107 | 3.00E-23 | HISTONE H2B |
| 188 | E594 | CA411298 | 453 | 137 | 3.00E-32 | 40S RIBOSOMAL PROTEIN S17 |
| 189 | E602 | CA411305 | 672 | 170 | 2.00E-42 | HISTONE H3 |
| 190 | E605 | CA411308 | 654 | 186 | 5.00E-47 | 40S RIBOSOMAL PROTEIN |
| 191 | E608 | CA411311 | 749 | 198 | 6.00E-51 | 50S RIBOSOMAL PROTEIN L3 |
| 192 | E611 | CA411314 | 738 | 120 | 2.00E-38 | RNA HELICASE |
| 193 | E628 | CA411330 | 646 | 185 | 3.00E-47 | CYTOPLASMIC RIBOSOMAL PROTEIN S13 |
| 194 | E633 | CA411335 | 604 | 173 | 1.00E-52 | ELONGATION FACTOR 1-ALPHA |
| 195 | E641 | CA411343 | 601 | 213 | 2.00E-55 | 60S RIBOSOMAL PROTEIN L10 |
| 196 | E646 | CA411348 | 665 | 238 | 1.00E-62 | ASPARAGINE SYNTHETASE |
| 197 | E651 | CA411353 | 612 | 129 | 7.00E-30 | ELONGATION FACTOR 1-ALPHA |
| 198 | E655 | CA411357 | 709 | 243 | 2.00E-64 | RIBOSOMAL PROTEIN S4 |
| 199 | E659 | CA411361 | 669 | 174 | 2.00E-43 | HISTONE H3 |
| 200 | E666 | CA411368 | 757 | 150 | 2.00E-36 | 40S RIBOSOMAL PROTEIN S14 |
| 201 | E668 | CA411370 | 707 | 189 | 4.00E-48 | CYTOPLASMIC RIBOSOMAL PROTEIN S13 |
| 202 | E670 | CA411372 | 656 | 210 | 2.00E-54 | RIBOSOMAL PROTEIN S6 |
| 203 | E675 | CA411377 | 609 | 116 | 1.00E-31 | RIBOSOMAL PROTEIN S13 |
| 204 | E678 | CA411380 | 655 | 189 | 4.00E-49 | CYTOPLASMIC RIBOSOMAL PROTEIN S13 |
| 205 | E687 | CA411388 | 673 | 169 | 5.00E-42 | POLYUBIQUITIN |

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| 206 | E689 | CA411390 | 732 | 279 | 3.00E-75 | 60S RIBOSOMAL PROTEIN L10 |
| 207 | E693 | CA411394 | 703 | 243 | 2.00E-64 | 60S RIBOSOMAL PROTEIN L13A |
| 208 | E694 | CA411395 | 727 | 265 | 6.00E-71 | 60S RIBOSOMAL PROTEIN L10 |
| 209 | E703 | CA411404 | 738 | 196 | 2.00E-50 | BIFUNCTIONAL NUCLEASE |
| 210 | E704 | CA411405 | 733 | 196 | 3.00E-50 | CYTOPLASMIC RIBOSOMAL PROTEIN S13 |
| 211 | E707 | CA411408 | 712 | 297 | 1.00E-77 | 60S RIBOSOMAL PROTEIN L10 |
| 212 | E710 | CA411411 | 724 | 275 | 4.00E-74 | ASPARAGINE SYNTHETASE |
| 213 | E727 | CA411428 | 699 | 145 | 6.00E-35 | PROBABLE UBIQUITIN-CONJUGATING ENZYME |
| 214 | E731 | CA411432 | 601 | 163 | 3.00E-40 | HISTONE H3 |
| 215 | E743 | CA526356 | 696 | 210 | 2.00E-54 | ASPARAGINE SYNTHETASE |
| 216 | E744 | CA411444 | 323 | 64 | 5.00E-10 | RIBOSOMAL PROTEIN S30 |
| 217 | E755 | CA411455 | 688 | 275 | 7.00E-74 | HISTONE DEACETYLASE |
| 218 | E760 | CA411461 | 723 | 126 | 4.00E-29 | HISTONE H2A |
| 219 | E761 | CA411462 | 571 | 66 | 9.00E-11 | ACIDIC RIBOSOMAL PROTEIN P3 |
| 220 | E766 | CA411465 | 694 | 147 | 2.00E-35 | ARGININE/SERINE-RICH SPLICING FACTOR |
| 221 | E769 | CA411468 | 683 | 139 | 3.00E-55 | CYSTEINE PROTEINASE PREDURSOR |
| 222 | E771 | CA411470 | 686 | 60 | 3.00E-09 | HISTONE H1 |
| 223 | E773 | CA411472 | 575 | 229 | 4.00E-60 | RIBOSOMAL PROTEIN S9 |
| 224 | E786 | CA411485 | 665 | 196 | 5.00E-50 | RIBOSOMAL PROTEIN S8 |
| 225 | E797 | CA411496 | 748 | 213 | 1.00E-55 | RIBOSOMAL PROTEIN S30 |
| 226 | E801 | CA411500 | 759 | 251 | 8.00E-67 | RIBOSOMAL PROTEIN L5 |
| 227 | E805 | CA411504 | 687 | 66 | 7.00E-11 | RIBOSOMAL PROTEIN L10A |
| 228 | E806 | CA411505 | 673 | 186 | 4.00E-47 | RIBOSOMAL PROTEIN S16 |
| 229 | E807 | CA526358 | 725 | 264 | 6.00E-75 | ELONGATIN FACTOR 1-ALPHA |
| 230 | E813 | CA411511 | 709 | 214 | 1.00E-55 | CYTOSOLIC CYSTEINE SYNTHASE |
| 231 | E817 | CA411515 | 734 | 113 | 3.00E-25 | P ALPHA NAC. ALPHA NAC-LIKE PROTEIN |
| 232 | E820 | CA411518 | 601 | 64 | 2.00E-10 | 60S ACIDIC RIBOSOMAL PROTEIN P3 |
| 233 | E829 | CA411527 | 728 | 222 | 6.00E-58 | RIBOSOMAL PROTEIN L3 |
| 234 | E847 | CA411545 | 744 | 192 | 5.00E-49 | NUCLEOSIDE DIPHOSPHATE KINASE I |
| 235 | E848 | CA411546 | 740 | 248 | 7.00E-66 | RUVB DNA HELICASE- LIKE PROTEIN |
| 236 | | | | | | |
| 237 | AMINO ACID AND PROTEIN METABOLISM: category 3 | | | | | |
| 238 | E025 | CA410755 | 511 | 132 | 7.00E-31 | SIMILARITY TO 40S RIBOSOMAL PROTEIN S10 |
| 239 | E061 | CA410790 | 482 | 158 | 2.00E-38 | PEPTIDYL-PROLYL CIS-TRANS ISOMERASE (EC 5.2.1.8) |
| 240 | E188 | CA410910 | 464 | 82 | 1.00E-15 | NASCENT POLYPEPTIDE ASSOCIATED COMPLEX ALPH |
| 241 | E261 | CA410979 | 438 | 95 | 2.00E-19 | P LYSOSOMAL ACID LIPASE |
| 242 | E306 | CA411020 | 264 | 44 | 1.00E-16 | PAPAIN-LIKE CYSTEINE PROTEINASE |
| 243 | E505 | CA411211 | 694 | 180 | 2.00E-45 | PEPTIDYLPROPYL ISOMERASE FK506 BINDING PROT. |
| 244 | E519 | CA411224 | 695 | 198 | 7.00E-51 | PEPTIDYLPROPYL CIS-TRANS ISOMERASE |
| 245 | E763 | CA411463 | 675 | 213 | 2.00E-55 | HYP 34.0KDA PROT/phosphoglyceride transfer prot. |
| 246 | E526 | CA411231 | 727 | 125 | 7.00E-29 | NASCENT POLYPEPTIDE ASSOCIATED COMPLEX |
| 247 | E686 | CA411387 | 667 | 206 | 3.00E-53 | PEPTIDYL-PROLYL CIS-TRANS ISOMERASE |
| 248 | E780 | CA411479 | 730 | 278 | 7.00E-75 | GLUTAMINE SYNTHETASE CYTOSOLIC ISOZYME |
| 249 | | | | | | |
| 250 | FATTY ACID AND LIPID METABOLISM: category 4 | | | | | |
| 251 | E049 | CA410779 | 471 | 137 | 2.00E-32 | LYSOPHOSPHOLIPASE-LIKE PROTEIN |
| 252 | E275 | CA410993 | 432 | 118 | 1.00E-26 | LIPASE-LIKE PROTEIN |
| 253 | E370 | CA411081 | 460 | 165 | 1.00E-40 | SQUALENE MONOOXYGENASE |
| 254 | E572 | CA411276 | 729 | 256 | 2.00E-68 | CTP: PHOSPHOCOLYNE CYTIDYLTRANSFERASE |
| 255 | E669 | CA411371 | 702 | 106 | 4.00E-23 | OMEGA6 FATTY ACID DESATURASE |
| 256 | E768 | CA411467 | 708 | 138 | 7.00E-36 | LIPASE/ACYLHIDROLASE |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|---|---------------------|-----|-------|----------|--|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 257 | | | | | | |
| 258 | NUTRIENT ASSIMILATION (other than carbon): category 5 | | | | | |
| 259 | E042 | CA410772 | 513 | 197 | 3.00E-50 | HYP. 28.9 KDA PROTEIN/alkaline phosphatase 56 6e-08 |
| 260 | E166 | CA410891 | 483 | 87 | 5.00E-17 | ACID PHOSPHATASE PRECURSOR (EC 3.1.3.2) |
| 261 | E237 | CA410956 | 420 | 94 | 4.00E-19 | P ACID PHOSPHATASE |
| 262 | E369 | CA411080 | 455 | 64 | 3.00E-10 | PHOSPHATASE-LIKE PROTEIN |
| 263 | | | | | | |
| 264 | SECONDARY METABOLISM: category 6 | | | | | |
| 265 | E149 | CA410874 | 456 | 99 | 1.00E-20 | CARNITINE RACEMASE LIKE PROTEIN |
| 266 | E206 | CA410925 | 458 | 179 | 7.00E-45 | EPOXIDE HYDROLASE (EC 3.3.2.3) |
| 267 | E213 | CA410932 | 213 | 166 | 2.00E-41 | HYP. PROTEIN/methionyl trna formyltransferasa 83 7e-16 |
| 268 | E231 | CA410950 | 405 | 100 | 8.00E-21 | THIAZOLE BIOSYNTHETIC ENZYME |
| 269 | E235 | CA410954 | 416 | 100 | 8.00E-21 | 4-COUMARATE; COA LIGASE (EC 6.2.1.12) |
| 270 | E239 | CA410957 | 429 | 125 | 2.00E-28 | FLAVONOL GLUCOSYLTRANSFERASE |
| 271 | E267 | CA410985 | 432 | 53 | 1.00E-06 | S-ADENOSYL-L-METHIONINE DECARBOXYLASE |
| 272 | E320 | CA411032 | 463 | 120 | 3.00E-27 | CYTOCHROME P450/isoflavone synthase 114 3.00e-25 |
| 273 | E402 | CA411109 | 741 | 254 | 7.00E-68 | EPOXIDE HYDROLASE |
| 274 | E404 | CA411111 | 728 | 204 | 8.00E-53 | CYTOCHROME P45/steroid 22-alpha hydroxylase 118 9e-27 |
| 275 | E418 | CA411125 | 777 | 140 | 4.00E-33 | CYTHOCROMRE P450 |
| 276 | E523 | CA411228 | 710 | 271 | 2.00E-73 | HYP. 49.0 PROT/similarity limonene cyclase 121 1e-27 |
| 277 | E601 | CA411304 | 694 | 126 | 4.00E-29 | CYTOCHROME P450 71A10 |
| 278 | E621 | CA411324 | 730 | 195 | 6.00E-50 | S-ADENOSYLMETHIONINE 2-DEMETHYLMENAQUINONE |
| 279 | E629 | CA411331 | 686 | 108 | 1.00E-23 | MANNOSYL-OLYGOSACHARIDE 1,2ALPHA MANNOSIDA |
| 280 | E657 | CA411359 | 500 | 140 | 4.00E-33 | ALLERGENIC ISOFLAVONE REDUCTASE-LIKE PROT. |
| 281 | E681 | CA411383 | 714 | 260 | 3.00E-39 | UDP-GLUCOSE -STEROL GLUCOSYLTRANSFERASA |
| 282 | E685 | CA411386 | 642 | 159 | 6.00E-39 | CYTOCHROME P450 |
| 283 | E709 | CA411410 | 683 | 212 | 4.00E-55 | THIAZOLE BIOSYNTHETIC ENZYME CHLOROPLAST |
| 284 | E717 | CA411418 | 716 | 193 | 3.00E-49 | THIAZOLE BIOSYNTHETIC ENZYME CHLOROPLAST |
| 285 | E787 | CA411486 | 408 | 56 | 1.00E-12 | CYTOCHROME P450 MONOOXYGENASE |
| 286 | | | | | | |
| 287 | POSSIBLE FUNCTION(S) IN DIFFERENT AREAS of METABOLISM: category 7 | | | | | |
| 288 | E012 | CA410742 | 536 | 192 | 5.00E-49 | S-ADENOSYLMETHIONINE SYNTHETASE 2 (EC 2.5.1.6) |
| 289 | E059 | CA410788 | 460 | 135 | 1.00E-31 | 5-METHYL/TETRAHYDROPTEROYLTRIGLUTAMATE |
| 290 | E079 | CA410806 | 534 | 142 | 3.00E-34 | ENDOGLUCANASE (EC 3.2.1.4) |
| 291 | E083 | CA410810 | 582 | 201 | 1.00E-51 | CHAPERONIN |
| 292 | E090 | CA410817 | 489 | 157 | 2.00E-38 | ADP-RIBOSYLATION FACTOR |
| 293 | E107 | CA410832 | 517 | 191 | 2.00E-48 | 5-METHYL/TETRAHYDROPTEROYLTRIGLUTAMATE |
| 294 | E109 | CA410834 | 452 | 141 | 2.00E-33 | 5-METHYL/TETRAHYDROPTEROYLTRIGLUTAMATE |
| 295 | E159 | CA410884 | 465 | 78 | 2.00E-14 | SYNTAXIN RELATED PROTEIN |
| 296 | E167 | CA410892 | 418 | 125 | 1.00E-28 | ANNEXIN LIKE PROTEIN |
| 297 | E204 | CA410924 | 464 | 145 | 1.00E-34 | ANNEXIN PROTEIN |
| 298 | E249 | CA410967 | 436 | 151 | 1.00E-36 | P WD-40 REPEAT PROTEIN |
| 299 | E303 | CA411017 | 443 | 134 | 2.00E-31 | METHYLENETETRAHYDROFOLATE REDUCTASE 1.5.1.20 |
| 300 | E307 | CA411021 | 503 | 163 | 4.00E-40 | ADP-RIBOSYLATION FACTOR |
| 301 | E325 | CA411037 | 425 | 149 | 7.00E-36 | METHIONINE SYNTHASE(EC 2.1.1.14) |
| 302 | E332 | CA411044 | 443 | 126 | 8.00E-29 | ENDOGLUCANASE (EC 3.2.1.4) |
| 303 | E355 | CA411067 | 442 | 129 | 1.00E-29 | S-ADENOSYLMETHIONINE SYNTHETASE (EC 2.5.1.6) |
| 304 | E378 | CA411087 | 457 | 82 | 1.00E-15 | HYDROLASE (contains an esterase/lipase/thioesterase |
| 305 | E434 | CA411141 | 580 | 142 | 6.00E-34 | THIOREDOXIN |
| 306 | E462 | CA411169 | 746 | 122 | 5.00E-28 | O-METHYLTRANSFERASE |
| 307 | E472 | CA411178 | 741 | 263 | 2.00E-70 | S-ADENOSYLMETHIONINE SYNTHETASE (EC 2.5.1.6) |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
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| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 308 | E475 | CA411181 | 729 | 252 | 5.00E-67 | S-ADENOSYLMETHIONINE SYNTHETASE |
| 309 | E480 | CA411186 | 688 | 230 | 2.00E-80 | 5METHYLTETRAHYDROPTEROYLTRIGLUTAMATE |
| 310 | E489 | CA411195 | 698 | 179 | 5.00E-45 | 5METHYLTETRAHYDROPTEROYLTRIGLUTAMATE |
| 311 | E513 | CA411218 | 732 | 212 | 6.00E-55 | SULFATE ADENYLTRANSFERASE (EC 2.7.7.4) |
| 312 | E530 | CA411235 | 704 | 182 | 4.00E-46 | AMINOTRANSFERASE |
| 313 | E588 | CA411292 | 671 | 233 | 2.00E-61 | S-ADENOSYLMETHIONINE SYNTHETASE |
| 314 | E596 | CA411300 | 766 | 279 | 4.00E-75 | S-ADENOSYLMETHIONINE SYNTHETASE |
| 315 | E609 | CA411312 | 753 | 258 | 1.00E-68 | S-ADENOSYLMETHIONINE SYNTHETASE (EC 2.5.1.1.6.) |
| 316 | E618 | CA411321 | 749 | 229 | 3.00E-60 | ATP SULFURYLASE/APS KINASE (EC 2.7.7.4) |
| 317 | E630 | CA411332 | 709 | 139 | 3.00E-33 | HISTIDINE CONTAINING PHOSPHOTRANSFER PROTEIN |
| 318 | E636 | CA411338 | 719 | 94 | 2.00E-19 | CARBONYL REDUCTASE-LIKE PROTEIN |
| 319 | E688 | CA411389 | 713 | 271 | 8.00E-73 | METHIONINE SYNTHASE (EC 2.1.1.14) |
| 320 | E764 | CA526357 | 721 | 211 | 5.00E-56 | SERYNE HYDROXYMETHYLTRANSFERASE (EC 2.1.2.1) |
| 321 | E784 | CA411483 | 686 | 244 | 1.00E-64 | SULFATE ADENYLYLTRANSFERASE |
| 322 | E792 | CA411491 | 754 | 257 | 1.00E-68 | ADENOSYLMETHIONINE SYNTHETASE (EC 3.3.1.1) |
| 323 | E804 | CA411503 | 737 | 219 | 3.00E-57 | SULFATE ADENYLYLTRANSFERASE |
| 324 | E827 | CA411525 | 727 | 243 | 2.00E-64 | ENDOCGLUCANASE 1 |
| 325 | E830 | CA411528 | 737 | 278 | 7.00E-75 | ADENOSYLMETHIONINE SYNTHETASE (EC 3.3.1.1) |
| 326 | E832 | CA411530 | 743 | 163 | 3.00E-39 | P BETA-1,3-GLUCANASE |
| 327 | | | | | | |
| 328 | II DEVELOPMENT | | | | | |
| 329 | CELL STRUCTURE, DIFFERENTIATION, CELL CYCLE: category 8 | | | | | |
| 330 | E003 | CA410733 | 484 | 165 | 1.00E-40 | PECTINESTERASE (EC 3.1.1.11) |
| 331 | E013 | CA410743 | 509 | 177 | 3.00E-44 | TUBULIN ALPHA-1 CHAIN |
| 332 | E050 | CA410780 | 478 | 153 | 3.00E-37 | BETA-1,3 GLUCANASE PRECURSOR (EC 3.2.1.39) |
| 333 | E121 | CA410846 | 446 | 168 | 2.00E-41 | PECTINESTERASE (EC 3.1.1.11) |
| 334 | E131 | CA410856 | 470 | 144 | 3.00E-34 | TUBULIN ALPHA-2/ALPHA-4 CHAIN |
| 335 | E154 | CA410879 | 501 | 100 | 5.00E-22 | ACTIN |
| 336 | E176 | CA410900 | 367 | 82 | 2.00E-15 | ACTIN |
| 337 | E187 | CA526341 | 459 | 156 | 7.00E-38 | TUBULIN ALPHA-2/ALPHA-4 CHAIN |
| 338 | E197 | CA410917 | 463 | 114 | 2.00E-25 | EXPANSIN PROTEIN |
| 339 | E199 | CA410919 | 456 | 93 | 7.00E-19 | XYLOGLUCAN ENDO-TRANSGLYCOSYLASE LIKE-PROT |
| 340 | E200 | CA410920 | 456 | 93 | 7.00E-19 | XYLOGLUCAN ENDO-TRANSGLYCOSYLASE LIKE-PROT |
| 341 | E219 | CA410938 | 447 | 118 | 1.00E-26 | EXPANSIN PRECURSOR |
| 342 | E262 | CA410980 | 429 | 175 | 2.00E-43 | ACTIN |
| 343 | E274 | CA410992 | 413 | 159 | 6.00E-39 | TUBULIN BETA CHAIN |
| 344 | E319 | CA411031 | 460 | 167 | 2.00E-41 | TUBULIN BETA CHAIN |
| 345 | E394 | CA411101 | 723 | 188 | 9.00E-48 | BETA-1-3-GLUCANASE-LIKE PROTEIN |
| 346 | E405 | CA411112 | 731 | 116 | 3.00E-26 | FPF1 LIKE PROTEIN |
| 347 | E536 | CA411241 | 741 | 177 | 1.00E-44 | PECTINESTERASE PRECURSOR (EC 3.1.1.11) |
| 348 | E554 | CA411259 | 643 | 130 | 3.00E-30 | PECTINESTERASE PRECURSOR (EC 3.1.1.11) |
| 349 | E652 | CA411354 | 702 | 212 | 5.00E-55 | F-ACTIN CAPPING PROTEIN ALPHA SUBUNIT |
| 350 | E660 | CA411362 | 688 | 263 | 2.00E-70 | UDP-GLUCOSE DEHYDROGENASE |
| 351 | E671 | CA411373 | 695 | 264 | 1.00E-70 | TUBULIN ALPHA CHAIN |
| 352 | E680 | CA411382 | 671 | 217 | 2.00E-56 | TUBULIN ALPHA-2/ALPHA-4 CHAIN |
| 353 | E695 | CA411396 | 724 | 165 | 8.00E-41 | ACTIN-DEPOLYMERIZING FACTOR 2 |
| 354 | E702 | CA411403 | 690 | 106 | 4.00E-23 | HMG 1 PROTEIN |
| 355 | E705 | CA411406 | 706 | 283 | 1.00E-76 | BETA TUBULIN |
| 356 | E732 | CA411433 | 746 | 106 | 3.00E-23 | HMG 1 PROTEIN |
| 357 | E818 | CA411516 | 708 | 280 | 2.00E-75 | ACTIN 11 |
| 358 | | | | | | |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
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| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 359 | PLANT DEVELOPMENT, NODULATION, SENESCENCE: category 9 | | | | | |
| 360 | E004 | CA410734 | 521 | 75 | 2.00E-13 | AUXIN-REPRESSED PROTEIN |
| 361 | E073 | CA410801 | 520 | 157 | 2.00E-38 | BRASSINOSTEROID INSENSITIVE PROTEIN recp.prot.kina |
| 362 | E078 | CA410805 | 492 | 102 | 1.00E-23 | PUTATIVE AUXIN-REPRESSED PROTEIN |
| 363 | E080 | CA410807 | 534 | 115 | 1.00E-35 | ETHYLENE-RESPONSIVE SMALL GTPBINDING PROTEIN |
| 364 | E081 | CA410808 | 425 | 77 | 5.00E-14 | PUTATIVE SENESCENCE-ASSOCIATED PROTEIN |
| 365 | E087 | CA410814 | 568 | 126 | 6.00E-29 | HYP. PROTEIN/Home domain transcrip. Factor 85 1e-16 |
| 366 | E112 | CA410837 | 450 | 62 | 1.00E-09 | PROLINE RICH SAC51 |
| 367 | E123 | CA410848 | 498 | 101 | 2.00E-21 | PHYTOCHROME-ASSOCIATED/auxin responsive 96 7e-20 |
| 368 | E139 | CA410864 | 495 | 100 | 7.00E-21 | AUXIN REPRESSED PROTEIN |
| 369 | E175 | CA410899 | 515 | 152 | 7.00E-37 | RIPENING RELATED PROTEIN |
| 370 | E186 | CA526340 | 469 | 97 | 5.00E-20 | WD-40 REPEAT PROTEIN LIKE |
| 371 | E282 | CA410998 | 433 | 83 | 1.00E-15 | HYP. PROT/ gibberellin- regulated protein 74 4e-13 |
| 372 | E284 | CA411000 | 420 | 96 | 7.00E-20 | SIMILARITY TO EMBRYO-SPECIFIC PROTEIN |
| 373 | E309 | CA411022 | 446 | 66 | 1.00E-10 | HYP. PROT/ Similar to inhibitor of apoptosis protein |
| 374 | E313 | CA526348 | 429 | 162 | 1.00E-39 | PROTEASOME SUBUNIT ALPHA TYPE 5 |
| 375 | E315 | CA411027 | 444 | 133 | 5.00E-31 | CS-IAA2/ auxin responsive protein IAA8 121 2e-27 |
| 376 | E328 | CA411040 | 458 | 150 | 3.00E-36 | ASCORBATO PEROXIDASE |
| 377 | E341 | CA411053 | 431 | 176 | 5.00E-44 | LIPOXYGENASE L5 |
| 378 | E348 | CA411060 | 460 | 118 | 2.00E-26 | P HYDROLASE/p ripeninig related protein 108 2e-23 |
| 379 | E349 | CA411061 | 408 | 95 | 2.00E-19 | LIPOXYGENASE |
| 380 | E361 | CA411072 | 459 | 114 | 3.00E-25 | P 21 KDA PROTEIN/ ripeninig related protein 86 8e-17 |
| 381 | E389 | CA526351 | 741 | 114 | 1.00E-25 | APA DOMAIN TRANSCRIPTION FACTOR |
| 382 | E399 | CA411106 | 733 | 87 | 3.00E-17 | ETHYLENE RESPONSIVE ELEMENT BINDING FACTOR |
| 383 | E423 | CA411130 | 752 | 84 | 2.00E-16 | Prolin rich F12F1.3 PROTEIN/ EXTENSIN-LIKE PROT |
| 384 | E429 | CA411136 | 733 | 189 | 3.00E-48 | WD-40 REPEAT PROTEIN MS12 |
| 385 | E516 | CA411221 | 727 | 158 | 8.00E-39 | AUXIN-BINDING PROTEIN |
| 386 | E529 | CA411234 | 710 | | 6.00E-13 | AP2 DOMAIN /ETHYLENE RESPONSE ELEMNT BINDING |
| 387 | E535 | CA411240 | 647 | 110 | 3.00E-24 | AUXIN-REPRESSED PROTEIN |
| 388 | E550 | CA411255 | 729 | 264 | 1.00E-70 | PROTEASOME BETA SUBUNIT (EC 3.4.99.46) |
| 389 | E595 | CA411299 | 716 | 140 | 2.00E-33 | EARLY NODULIN ENOD18 |
| 390 | E598 | CA411302 | 688 | 207 | 2.00E-53 | 1-AMINOCYCLOPROPANE-1-CARBOXYLATE OXIDASE |
| 391 | E600 | CA411303 | 744 | 194 | 1.00E-49 | NODULIN LIKE PROTEIN |
| 392 | E631 | CA411333 | 733 | 167 | 1.00E-41 | PROFILIN |
| 393 | E638 | CA411340 | 718 | 110 | 2.00E-24 | AUXIN-REPRESSED PROTEIN |
| 394 | E648 | CA411350 | 729 | 153 | 2.00E-37 | RIPENING RELATED PROTEIN |
| 395 | E654 | CA411356 | 727 | 153 | 2.00E-37 | RIPENING RELATED PROTEIN |
| 396 | E662 | CA411364 | 746 | 101 | 1.00E-21 | DORMANCY-ASSOCIATED PROTEIN |
| 397 | E677 | CA411379 | 709 | 83 | 3.00E-16 | PROLINE RICH PROTEIN |
| 398 | E690 | CA411391 | 662 | 181 | 9.00E-40 | ACTIN-DEPOLYMERIZING FACTOR 2 |
| 399 | E699 | CA411400 | 722 | 133 | 2.00E-27 | POLLEN SPECIFIC PROTEIN PRECURSOR |
| 400 | E740 | CA411441 | 753 | 183 | 3.00E-46 | HYP. 17.6 KDA PROT/seed maduratin protein 65 4e-11 |
| 401 | E749 | CA411449 | 724 | 118 | 1.00E-26 | AUXIN RESPONSE FACTOR 9 |
| 402 | E750 | CA411450 | 707 | 127 | 2.00E-30 | IAA7-LIKE PROTEIN |
| 403 | E757 | CA411457 | 459 | 88 | 2.00E-17 | PUTATIVE SENESENCE-ASSOCIATED PROTEIN |
| 404 | E775 | CA411474 | 759 | 280 | 1.00E-75 | SCARECROW |
| 405 | E778 | CA411477 | 705 | 118 | 8.00E-27 | LECTIN LIKE PROTEIN |
| 406 | E783 | CA411482 | 672 | 104 | 2.00E-22 | LECTIN LIKE PROTEIN |
| 407 | E796 | CA411495 | 409 | 73 | 8.00E-13 | Putative SENESCENCE-ASSOCIATED PROTEIN |
| 408 | E815 | CA411513 | 710 | 107 | 2.00E-23 | P AUXIN-REPRESSED PROTEIN |
| 409 | E841 | CA411539 | 735 | 248 | 1.00E-67 | AUXIN RESPONSE-LIKE PROTEIN |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|---|---------------------|-----|-------|----------|---|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 410 | E850 | CA411548 | 724 | 133 | 2.00E-31 | SIMILARITY TO EMBRYO-SPECIFIC PROTEIN 3 |
| 411 | | | | | | |
| 412 | III INTERACTION WITH THE ENVIRONMENT | | | | | |
| 413 | TRANSPORT, MEMBRANE PROTEINS: category 10 | | | | | |
| 414 | E014 | CA410744 | 514 | 139 | 5.00-33 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 415 | E026 | CA410756 | 508 | 211 | 2.00E-54 | AQUAPORIN |
| 416 | E038 | CA410768 | 508 | 156 | 4.00E-38 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 417 | E065 | CA410794 | 467 | 181 | 2.00E-45 | WATER SELECTIVE TRANSPORT INTRINSIC MEMBRANE |
| 418 | E085 | CA410812 | 529 | 169 | 5.00E-42 | AQUAPORIN |
| 419 | E093 | CA526337 | 577 | 49 | 9.00E-06 | SMALL BASIC MEMBRANE PROTEIN Z |
| 420 | E095 | CA410821 | 546 | 171 | 2.00E-42 | AQUAPORIN |
| 421 | E096 | CA410822 | 524 | 158 | 9.00E-39 | AQUAPORIN |
| 422 | E101 | CA410826 | 519 | 186 | 4.00E-47 | CLATHRIN ASSEMBLY PROTEIN AP19 |
| 423 | E122 | CA410847 | 474 | 160 | 5.00E-39 | GLUCOSE-6-PHOSPHATE/PHOSPHATE TRANSLOCATOR |
| 424 | E134 | CA410859 | 493 | 76 | 7.00E-14 | P MITOCHONDRIAL DICARBOXYLATE CARRRIER PROT. |
| 425 | E138 | CA410863 | 496 | 155 | 1.00E-37 | OUTER MITOCHONDRIAL MEMBRANE PROTEIN |
| 426 | E172 | CA410896 | 457 | 166 | 4.00E-41 | AQUAPORIN |
| 427 | E182 | CA410906 | 489 | 168 | 1.00E-41 | AQUAPORIN |
| 428 | E192 | CA410913 | 313 | 123 | 5.00E-28 | ENDOMEMBRANE PROTEIN EMP70PRECURSOR |
| 429 | E195 | CA526343 | 472 | 124 | 2.00E-28 | PROBABLE 28 KDA GOLGI SNARE PROTEIN |
| 430 | E198 | CA410918 | 458 | 165 | 1.00E-40 | AQUAPORIN |
| 431 | E208 | CA410927 | 430 | 94 | 5.00E-19 | PUTATIVE PLASMA MEMBRANE INTRINSIC PROTEIN |
| 432 | E232 | CA410951 | 476 | 189 | 5.00E-48 | AQUAPORIN |
| 433 | E236 | CA410955 | 569 | 169 | 7.00E-42 | P PLASMA MEMBRANE INTRINSIC PROTEIN |
| 434 | E252 | CA410970 | 416 | 123 | 4.00E-28 | AQUAPORIN |
| 435 | E253 | CA410971 | 534 | 180 | 3.00E-45 | AQUAPORIN |
| 436 | E265 | CA410983 | 550 | 142 | 7.00E-42 | AQUAPORIN |
| 437 | E293 | CA411009 | 297 | 90 | 9.00E-18 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 438 | E323 | CA411035 | 463 | 120 | 5.00E-27 | AQUAPORIN |
| 439 | E338 | CA411050 | 508 | 75 | 1.00E-13 | AQUAPORIN |
| 440 | E340 | CA411052 | 403 | 75 | 1.00E-13 | AQUAPORIN |
| 441 | E342 | CA411054 | 453 | 184 | 2.00E-46 | AQUAPORIN |
| 442 | E357 | CA411069 | 468 | 112 | 8.00E-25 | P MEMBRANE PROTEIN |
| 443 | E371 | CA411082 | 465 | 187 | 2.00E-47 | TRANSPORT PROTEIN PARTICLE |
| 444 | E375 | CA411085 | 482 | 188 | 1.00E-47 | IMPORTIN-BETA 2 |
| 445 | E377 | CA526350 | 444 | 99 | 1.00E-20 | TONOPLAST INTRINSIC PROTEIN |
| 446 | E381 | CA411090 | 457 | 169 | 8.00E-42 | AQUAPORIN |
| 447 | E396 | CA411103 | 737 | 202 | 5.00E-52 | MRP LIKE ABC TRANSPORTER |
| 448 | E414 | CA411121 | 658 | 205 | 5.00E-53 | RAS-RELATED GTP-BINDING PROTEIN |
| 449 | E420 | CA411127 | 742 | 220 | 2.00E-57 | WATER CHANNEL PROTEIN |
| 450 | E428 | CA411135 | 537 | 130 | 4.00E-30 | AQUAPORIN |
| 451 | E431 | CA411138 | 733 | 241 | 8.00E-64 | WATER-SELECTIVE TRANSPORT INTRINSIC MEMBRANE |
| 452 | E445 | CA411152 | 753 | 238 | 5.00E-63 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 453 | E449 | CA411156 | 730 | 202 | 6.00-52 | |
| 454 | E452 | CA411159 | 627 | 194 | 2.00E-49 | AQUAPORIN |
| 455 | E487 | CA411193 | 736 | 202 | 3.00E-52 | CHLOROPLAST OUTER ENVELOPE PROTEIN |
| 456 | E488 | CA411194 | 729 | 192 | 3.00E-52 | WATER-SELECTIVE TRANSPORT INTRINSIC MEMBRANE |
| 457 | E495 | CA411201 | 446 | 52 | 2.00E-06 | WATER CHANNEL PROTEIN |
| 458 | E499 | CA411205 | 698 | 255 | 4.00E-68 | RAS-RELATED PROTEIN |
| 459 | E500 | CA411206 | 671 | 174 | 1.00E-43 | ENDOPLASMIC RETICULUM RETRIEVAL PROTEIN RER1A |
| 460 | E518 | CA411223 | 770 | 166 | 6.00E-41 | TRANSMEMBRANE PROTEIN |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|--|---------------------|-----|-------|----------|--|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 461 | E522 | CA411227 | 675 | 152 | 7.00E-37 | TONOPLAST MEMBRANE INTEGRAL PROTEIN |
| 462 | E524 | CA411229 | 706 | 204 | 1.00E-52 | COATOMER COMPLEX SUBUNIT |
| 463 | E547 | CA411252 | 608 | 121 | 1.00E-27 | P COMPONENT OF HIGH AFFINITY NITRTE TRANSPORT |
| 464 | E548 | CA411253 | 561 | 173 | 4.00E-43 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 465 | E555 | CA411260 | 664 | 204 | 1.00E-52 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 466 | E574 | CA411278 | 530 | 168 | 1.00E-41 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 467 | E576 | CA411280 | 741 | 192 | 5.00E-49 | TONOPLAST MEMBRANE INTEGRAL PROTEIN |
| 468 | E579 | CA411283 | 629 | 110 | 2.00E-24 | P NUCLEOSIDE TRANSPORTER |
| 469 | E581 | CA411285 | 629 | 234 | 1.00E-61 | AQUAPORIN |
| 470 | E591 | CA411295 | 636 | 180 | 2.00E-45 | VACUOLA-ASSOCIATED ANNEXIN |
| 471 | E592 | CA411296 | 659 | 116 | 3.00E-26 | PUTATIVE CARRIER PROTEIN |
| 472 | E603 | CA411306 | 590 | 91 | 2.00E-18 | TRANSMEMBRANE CHANNEL PROTEIN |
| 473 | E604 | CA411307 | 754 | 219 | 3.00E-37 | VPS28 PROTEIN/vacuolar sorting-associated protein |
| 474 | E612 | CA411315 | 733 | 314 | 7.00E-86 | PHOSPHATE TRANSPORTER 2 |
| 475 | E617 | CA411320 | 710 | 234 | 1.00E-61 | AQUAPORIN |
| 476 | E623 | CA411326 | 741 | 204 | 1.00E-54 | MITOCHONDRIAL CARRIER PROTEIN |
| 477 | E635 | CA411337 | 725 | 271 | 9.00E-73 | AQUAPORIN |
| 478 | E649 | CA411351 | 692 | 94 | 3.00E-19 | PEROXISOMAL ATP/ADP CARRIER PROTEIN |
| 479 | E672 | CA411374 | 662 | 193 | 3.00E-49 | PLASMA MEMBRANE INTRINSIC PROTEIN |
| 480 | E684 | CA526355 | 656 | 121 | 9.00E-28 | PHOSPHATE TRANSPORTER 2 |
| 481 | E716 | CA411417 | 685 | 182 | 4.00E-46 | STEROID MEMBRANE BINDING PROTEIN |
| 482 | E720 | CA411421 | 735 | 230 | 2.00E-60 | WATER SELECTIVE TRANSPORT INTRINSIC MEMBRANE |
| 483 | E733 | CA411434 | 736 | 95 | 8.00E-20 | HYP. PROTEIN/membrane protein 76 4e-14 |
| 484 | E759 | CA411459 | 713 | 269 | 1.00E-63 | AQUAPORIN |
| 485 | E776 | CA411475 | 741 | 188 | 7.00E-48 | PORINE |
| 486 | E799 | CA411498 | 735 | 285 | 3.00E-77 | AQUAPORIN |
| 487 | E823 | CA411521 | 716 | 235 | 6.00E-62 | AQUAPORIN |
| 488 | E833 | CA411531 | 723 | 190 | 2.00E-50 | WATER-SELECTIVE TRANSPORT INTRINSIC MEMBRANE |
| 489 | E834 | CA411532 | 735 | 271 | 8.00E-73 | AQUAPORIN |
| 490 | E836 | CA411534 | 760 | 213 | 2.00E-55 | GAMMA-SOLUBLE NSF ATTACHMENT PROTEIN |
| 491 | E843 | CA411541 | 707 | 178 | 7.00E-45 | VESICLE-ASSOCIATED MEMMBRANE PROTEIN |
| 492 | | | | | | |
| 493 | SIGNAL TRANSDUCTION, REGULATION: category 11 | | | | | |
| 494 | E002 | CA410732 | 536 | 160 | 3.00E-39 | GTP BINDING PROTEIN ARAC10 |
| 495 | E011 | CA410741 | 490 | 86 | 1.00E-16 | CYCLIN-SPECIFIC UBIQUITIN CARRIER PROTEIN |
| 496 | E023 | CA410753 | 526 | 160 | 2.00E-39 | RAC GTP BINDING PROTEIN ARAC10 |
| 497 | E030 | CA410760 | 562 | 186 | 4.00E-47 | GTP BINDING PROTEIN |
| 498 | E044 | CA410774 | 459 | 130 | 5.00E-30 | PROTEASOME ATPASE/REGULATOR |
| 499 | E051 | CA410781 | 483 | 161 | 2.00E-39 | CALMODULIN |
| 500 | E053 | CA410783 | 497 | 110 | 3.00E-24 | HYP. 120.4 KDA PROTEIN/ZINCFINGER PROTEIN 84 3e-16 |
| 501 | E054 | CA410784 | 509 | 162 | 7.00E-40 | PREDICTED LEUCINE-RICH PROTEIN |
| 502 | E071 | CA410799 | 577 | 61 | 2.00E-09 | |
| 503 | E092 | CA410819 | 527 | 96 | 1.00E-19 | DOF ZINC FINGER PROTEIN LIKE |
| 504 | E120 | CA410845 | 486 | 156 | 7.00E-38 | EUKARYOTIC RELEASE FACTOR 1 |
| 505 | E135 | CA410860 | 461 | 85 | 2.00E-16 | PUTATIVE MYB FAMILY TRANSCRIPTION FACTOR |
| 506 | E144 | CA410869 | 477 | 149 | 2.00E-35 | ATRANBP1B PROTEIN/ Ran binding protein |
| 507 | E152 | CA410877 | 509 | 84 | 3.00E-14 | RNA AND EXPORT FACTOR BINDING PROTEIN |
| 508 | E164 | CA410889 | 451 | 74 | 3.00E-13 | EUKARYOTIC INITIATION FACTOR 4 EIF4 LIKE-PROTEIN |
| 509 | E173 | CA410897 | 443 | 55 | 2.00E-07 | SIMILARITY TO NITRATE-INDUCED NOI PROTEIN |
| 510 | E184 | CA410908 | 471 | 161 | 2.00E-39 | CALMODULIN |
| 511 | E189 | CA410911 | 466 | 115 | 1.00E-25 | P PROGESTERONE-BINDING PROTEIN |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|------|---------------------|-----|-------|----------|--|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 512 | E194 | CA410915 | 467 | 98 | 3.00E-20 | P HOMEBOX PROTEIN |
| 513 | E230 | CA410949 | 425 | 157 | 3.00E-38 | GTP-BINDING PROTEIN |
| 514 | E238 | CA526344 | 559 | 121 | 1.00E-27 | PROBABLE MITOCHONDRIAL IMPORT RECEPTOR |
| 515 | E248 | CA410966 | 568 | 41 | 1.00E-08 | ENBP1 PROTEIN (DNA_binding prtein) |
| 516 | E254 | CA410972 | 434 | 68 | 2.00E-11 | PROTEIN KINASE-LIKE PROTEIN |
| 517 | E257 | CA410975 | 404 | 156 | 7.00E-38 | CALMODULIN |
| 518 | E263 | CA410981 | 543 | 80 | 5.00E-15 | P RNA-BINDING PROTEIN |
| 519 | E266 | CA410984 | 421 | 88 | 3.00E-17 | PRLI-INTERACTING FACTOR K |
| 520 | E283 | CA410999 | 409 | 80 | 6.00E-15 | CALMODULIN |
| 521 | E343 | CA411055 | 446 | 73 | 6.00E-13 | RNA-BINDING PROTEIN |
| 522 | E345 | CA411057 | 439 | 129 | 6.00E-30 | EUKARYOTIC INITIATION FACTOR |
| 523 | E362 | CA411073 | 442 | 130 | 3.00E-30 | RNA POLYMERASE TRANSCRIPTIONAL REGULATION |
| 524 | E368 | CA411079 | 466 | 116 | 6.00E-26 | PROTEIN BINDING TO ENOD12B PROMOTOR |
| 525 | E373 | CA411083 | 462 | 151 | 2.00E-36 | PROBABLE MITOCHONDRIAL IMPORT RECEPTOR |
| 526 | E382 | CA411091 | 455 | 56 | 1.00E-07 | OSMOTIC STRESS INDUCED ZINC-FINGER PROTEIN |
| 527 | E384 | CA411093 | 664 | 216 | 3.00E-56 | PUR ALPHA 1 TRANSCRIPTIONAL ACTIVATOR PROTEIN |
| 528 | E397 | CA411104 | 634 | 168 | 1.00E-41 | CAA30303719.1 PROT/tubby-like protein 161 1e-39 |
| 529 | E398 | CA411105 | 439 | 84 | 3.00E-16 | S-RECEPTOR KINASE-LIKE PROTEIN |
| 530 | E408 | CA411115 | 726 | 118 | 7.00E-27 | RING ZINC FINGER PROTEIN |
| 531 | E413 | CA411120 | 612 | 153 | 3.00E-31 | PROBABLE SIN3 ASSOCIATED POLYPEPTIDE |
| 532 | E416 | CA411123 | 746 | 161 | 8.00E-40 | S-RECEPTOR KINASE-LIKE PROTEIN |
| 533 | E436 | CA411143 | 733 | 135 | 8.00E-32 | ZH856.10 PROT/ DNA-directed RNA polymerase 70 2e-12 |
| 534 | E439 | CA411146 | 603 | 141 | 1.00E-33 | RING ZINC FINGER PROTEIN |
| 535 | E450 | CA411157 | 710 | 108 | 1.00E-22 | ZINC-FINGER PROTEIN |
| 536 | E466 | CA411172 | 361 | 153 | 5.00E-37 | GIGANTEA PROTEIN |
| 537 | E473 | CA411179 | 712 | 158 | 1.00E-38 | RNA BINDING PROTEIN |
| 538 | E478 | CA411184 | 361 | 153 | 5.00E-37 | GIGANTEA PROTEIN |
| 539 | E481 | CA411187 | 614 | 151 | 2.00E-36 | PROTEIN KINASE/cell division control protein 147 2e-35 |
| 540 | E485 | CA411191 | 548 | 141 | 2.00E-33 | RING FINGER PROTEIN |
| 541 | E492 | CA411198 | 632 | 190 | 2.00E-49 | INITIATION FACTOR 5A-4 |
| 542 | E498 | CA411204 | 712 | 190 | 2.00E-48 | INITIATION FACTOR 5A-4 |
| 543 | E502 | CA411208 | 598 | 80 | 5.00E-15 | TRANSCRIPTION INITIATION PROTEIN |
| 544 | E511 | CA411216 | 730 | 211 | 1.00E-54 | CASEIN KINASE II ALPHA SUBUNIT |
| 545 | E514 | CA411219 | 656 | 77 | 2.00E-14 | CALMODULIN-BINDING PROTEIN |
| 546 | E520 | CA411225 | 707 | 88 | 2.00E-17 | RING-H2 FINGER PROTEIN |
| 547 | E528 | CA411233 | 702 | 59 | 6.00E-09 | PUTATIVE MAP KINASE |
| 548 | E532 | CA411237 | 752 | 75 | 7.00E-14 | EPSIN-LIKE PROTEIN |
| 549 | E534 | CA411239 | 767 | 218 | 1.00E-56 | GTP-BINDING PROTEIN |
| 550 | E541 | CA411246 | 604 | 203 | 2.00E-52 | SAR DNA-BINDING PROTEIN |
| 551 | E552 | CA411257 | 585 | 226 | 4.00E-59 | SHAGGY-RELATED PROTEIN KINASE (EC 2.7.1.-) |
| 552 | E560 | CA411265 | 708 | 236 | 3.00E-62 | EUKARYOTIC INITIATION FACTOR 4A-15 |
| 553 | E561 | CA411266 | 578 | 97 | 3.00E-20 | T27E13 PROT/P LEUCINE-RICH REPEAT PROTEIN |
| 554 | E564 | CA411269 | 709 | 221 | 1.00E-57 | AAD25141 PROT/phosphate-induced protein PHI-1 87 2e-27 |
| 555 | E577 | CA411281 | 477 | 133 | 4.00E-31 | RAC G-PROTEIN |
| 556 | E583 | CA411287 | 676 | 93 | 6.00E-19 | MYB-RELATED TRANSCRIPTION ACTIVATOR-LIKE |
| 557 | E616 | CA411319 | 704 | 191 | 1.00E-49 | SERINE PROTEASE |
| 558 | E626 | CA411328 | 745 | 254 | 3.00E-67 | EUKARYOTIC INITIATION FACTOR 6 |
| 559 | E627 | CA411329 | 715 | 56 | 4.00E-08 | C2H2-TYPE ZINC FINGER PROTEIN |
| 560 | E643 | CA411345 | 667 | 139 | 5.00E-33 | TRANSCRIPTION FACTOR BTF3 |
| 561 | E647 | CA411349 | 750 | 110 | 2.00E-24 | DNA BINDING PROTEIN |
| 562 | E650 | CA411352 | 687 | 66 | 9.00E-11 | RECEPTOR KINASE |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|-----------------------------|---------------------|-----|-------|----------|--|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 563 | E656 | CA411358 | 726 | 266 | 2.00E-71 | SERINE/THREONINE PROTEIN KINASE |
| 564 | E673 | CA411375 | 685 | 130 | 2.00E-30 | SERINE/THREONINE PROTEIN KINASE |
| 565 | E683 | CA411385 | 700 | 157 | 2.00E-38 | INITIATION FACTOR A |
| 566 | E701 | CA411402 | 688 | 134 | 2.00E-31 | SIGNAL RECOGNITION PARTICLE 9 KDA PROTEIN |
| 567 | E706 | CA411407 | 685 | 97 | 3.00E-20 | TRANSCRIPTION FACTOR EREBP |
| 568 | E712 | CA411413 | 673 | 217 | 1.00E-36 | CALNEXIN |
| 569 | E725 | CA411426 | 680 | 101 | 2.00E-21 | SERINE/THREONINE PROTEIN PHOSPHATASE |
| 570 | E742 | CA411443 | 738 | 229 | 4.00E-60 | LIM-DOMAIN SF3 PROTEIN |
| 571 | E745 | CA411445 | 737 | 132 | 5.00E-31 | ZINC FINGER PROTEIN |
| 572 | E765 | CA411464 | 716 | 113 | 4.00E-25 | CALCINEURIN B-LIKE PROTEIN |
| 573 | E781 | CA411480 | 694 | 238 | 9.00E-63 | PROT. KINASE/ CELL DIVISION CONTROL PROTEIN 2 |
| 574 | E785 | CA411484 | 727 | 76 | 6.00E-14 | GAI PROTEIN |
| 575 | E816 | CA411514 | 708 | 150 | 2.00E-36 | SIMILARITY TO GTP-BINDING REGULATORY PROTEIN |
| 576 | E831 | CA411529 | 600 | 118 | 9.00E-27 | GLYCINE-RICH RNA-BINDING PROTEIN |
| 577 | | | | | | |
| 578 | STRESS, DEFENSE:category 12 | | | | | |
| 579 | E008 | CA410738 | 488 | 167 | 3.00E-41 | HEAT SHOCK PROTEIN |
| 580 | E019 | CA410749 | 379 | 98 | 2.00E-20 | PEROXIDASE 1B (EC 1.11.1.7) |
| 581 | E029 | CA410759 | 514 | 148 | 2.00E-35 | INDUCED UPON WOUNDING STRESS |
| 582 | E032 | CA410762 | 515 | 151 | 1.00E-36 | INDUCED UPON WOUNDING STRESS |
| 583 | E040 | CA410770 | 519 | 192 | 7.00E-49 | THAUMATIN |
| 584 | E058 | CA410787 | 504 | 148 | 1.00E-35 | PEROXIDASE (EC 1.11.1.7) |
| 585 | E066 | CA410795 | 515 | 94 | 4.00E-19 | PATHOGENESIS-RELATED PROTEIN |
| 586 | E076 | CA410803 | 536 | 89 | 8.00E-18 | COLD ACCLIMATION RESPONSIVE PROTEIN |
| 587 | E082 | CA410809 | 573 | 94 | 4.00E-19 | TUMOR-RELATED PROTEIN |
| 588 | E098 | CA410824 | 485 | 151 | 1.00E-36 | PR-10 PROTEIN/root hair protein RH2 116 4e-26 |
| 589 | E102 | CA410827 | 468 | 108 | 2.00E-23 | PR-10 PROTEIN/stress-induced gene 83/ 6e-16 |
| 590 | E115 | CA410840 | 386 | 121 | 3.00E-27 | GLUTATHIONE S-TRANSFERASE GST (EC 2.5.1.18) |
| 591 | E124 | CA410849 | 455 | 155 | 2.00E-37 | PR-10 PROTEIN |
| 592 | E128 | CA410853 | 486 | 149 | 8.00E-36 | PR-10 PROTEIN |
| 593 | E143 | CA410868 | 431 | 103 | 6.00E-22 | PEROXIDASE PRECURSOR |
| 594 | E177 | CA410901 | 460 | 82 | 1.00E-15 | PEROXIDASE ATP17A-LIKE PROTEIN |
| 595 | E215 | CA410934 | 452 | 145 | 1.00E-34 | PR-10 PROTEIN |
| 596 | E218 | CA410937 | 437 | 125 | 1.00E-28 | PEROXIDASE ATP17A-LIKE PROTEIN |
| 597 | E229 | CA410948 | 431 | 81 | 4.00E-15 | PEROXIDASE PRECURSOR |
| 598 | E271 | CA410989 | 416 | 132 | 1.00E-30 | PEROXIDASE ATP17A-LIKE PROTEIN |
| 599 | E277 | CA410995 | 418 | 94 | 3.00E-23 | PEROXIDASE ATP17A-LIKE PROTEIN |
| 600 | E294 | CA411010 | 440 | 140 | 3.00E-33 | THAUMATIN |
| 601 | E296 | CA526347 | 411 | 122 | 1.00E-27 | PR-10 PROTEIN |
| 602 | E300 | CA411014 | 435 | 141 | 2.00E-33 | PR-10 PROTEIN |
| 603 | E301 | CA411015 | 457 | 146 | 5.00E-35 | PATHOGENESIS-RELATED PROTEIN |
| 604 | E312 | CA411025 | 406 | 100 | 4.00E-21 | GERMIN LIKE PROTEIN |
| 605 | E346 | CA411058 | 445 | 139 | 6.00E-36 | PR-10 PROTEIN |
| 606 | E365 | CA411076 | 488 | 140 | 3.00E-33 | DIRIGENT PROTEIN/ disease resistance protein 129 8e-30 |
| 607 | E380 | CA411089 | 473 | 151 | 2.00E-36 | PEROXIDASE PRECURSOR |
| 608 | E391 | CA526352 | 700 | 208 | 2.00E-56 | INDUCED UPON WOUNDING STRESS |
| 609 | E406 | CA411113 | 746 | 234 | 1.00E-61 | PEROXIDASE PRECURSOR |
| 610 | E410 | CA411117 | 745 | 247 | 1.00E-65 | HIGH MOLECULAR WEIGHT HEAT SHOCK PROTEIN |
| 611 | E417 | CA411124 | 756 | 123 | 3.00E-28 | TUMOR RELATED PROTEIN |
| 612 | E419 | CA411126 | 778 | 224 | 2.00E-58 | PEROXIDASE PRECURSOR |
| 613 | E427 | CA411134 | 709 | 225 | 5.00E-59 | PEROXIDASE PRECURSOR |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|---|---------------------|-----|-------|----------|---|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 614 | E432 | CA411139 | 765 | 279 | 1.00E-74 | THAUMATIN |
| 615 | E455 | CA411162 | 762 | 223 | 4.00E-58 | PEROXIDASE PRECURSOR |
| 616 | E465 | CA411171 | 532 | 64 | 4.00E-10 | METALLOTHIONEIN LIKE PROTEIN |
| 617 | E490 | CA411196 | 519 | 102 | 7.00E-22 | B12D PROTEIN (Ipomea batata) |
| 618 | E496 | CA411202 | 594 | 64 | 4.00E-10 | METALLOTHIONEIN LIKE PROTEIN |
| 619 | E517 | CA411222 | 582 | 115 | 1.00E-25 | BASIC CHITANASE |
| 620 | E525 | CA411230 | 712 | 155 | 1.00E-37 | F16B3 PROT/ similarity to salt-inducible prot. 53 7e-07 |
| 621 | E540 | CA411245 | 609 | 123 | 3.00E-28 | PATHOGENESIS-RELATED PROTEIN |
| 622 | E543 | CA411248 | 602 | 131 | 1.00E-30 | LIGHT INDUCIBLE PROTEIN ATLS1 |
| 623 | E565 | CA411270 | 685 | 170 | 3.00E-44 | PR-10 .2D PROTEIN |
| 624 | E570 | CA411275 | 615 | 54 | 4.00E-07 | DEHYDRATATION-INDUCED ERD15 PPROTEIN |
| 625 | E573 | CA411277 | 682 | 216 | 2.00E-56 | PEROXIDASE PRECURSOR |
| 626 | E587 | CA411291 | 643 | 187 | 2.00E-47 | PR-10 .2D PROTEIN |
| 627 | E597 | CA411301 | 700 | 127 | 2.00E-59 | GLUTATHIONE S-TRANSFERASE |
| 628 | E606 | CA411309 | 398 | 79 | 2.00E-12 | B12D PROTEIN |
| 629 | E607 | CA411310 | 531 | 74 | 4.00E-13 | METALLOTHIONEIN-LIKE PROTEIN |
| 630 | E620 | CA411323 | 535 | 99 | 1.00E-37 | THAUMATIN LIKE PROTEIN |
| 631 | E622 | CA411325 | 590 | 103 | 3.00E-22 | B12D PROTEIN |
| 632 | E637 | CA411339 | 683 | 219 | 3.00E-57 | PEROXIDASE |
| 633 | E639 | CA411341 | 726 | 184 | 8.00E-47 | PR-10 .2D PROTEIN |
| 634 | E642 | CA411344 | 700 | 169 | 8.00E-42 | PR-10 .2D PROTEIN |
| 635 | E644 | CA411346 | 693 | 157 | 1.00E-38 | STRESS-INDUCED PROTEIN |
| 636 | E658 | CA411360 | 750 | 192 | 4.00E-49 | PR-10 PROTEIN |
| 637 | E674 | CA411376 | 729 | 185 | 6.00E-47 | PR-10 2D PROTEIN |
| 638 | E676 | CA411378 | 531 | 99 | 8.00E-21 | STRESS-RESPONSIVE PROTEIN |
| 639 | E691 | CA411392 | 711 | 90 | 2.00E-18 | ELICITOR INDUCIBLE PROTEIN |
| 640 | E708 | CA411409 | 694 | 260 | 2.00E-69 | THAUMATIN LIKE PROTEIN |
| 641 | E723 | CA411424 | 524 | 160 | 4.00E-39 | PR-10 2D PROTEIN |
| 642 | E726 | CA411427 | 706 | 170 | 2.00E-42 | BERBERINE BRIDGE ENZYME |
| 643 | E730 | CA411431 | 703 | 243 | 2.00E-64 | HEAT SHOCK COGNATE PROTEIN |
| 644 | E76 | CA411460 | 701 | 185 | 6.00E-47 | PR-10 2D PROTEIN |
| 645 | E772 | CA411471 | 692 | 133 | 2.00E-31 | DIRIGENT PROTEIN PUTATIVE |
| 646 | E782 | CA411481 | 723 | 184 | 1.00E-46 | MONODEHYDROASCORBATE REDUCTASE |
| 647 | E791 | CA411490 | 700 | 213 | 2.00E-55 | PEROXIDASE |
| 648 | E795 | CA411494 | 503 | 103 | 4.00E-22 | B12D PROTEIN |
| 649 | E808 | CA411506 | 721 | 207 | 1.00E-53 | GLUTATHIONE S-TRANSFERASE 2 |
| 650 | E814 | CA411512 | 761 | 124 | 3.00E-28 | PEROXIDASE 1 PRECURSOR |
| 651 | E821 | CA411519 | 727 | 192 | 5.00E-49 | PR-10 2D PROTEIN |
| 652 | E825 | CA411523 | 701 | 187 | 2.00E-47 | GLUTATHIONE PEROXIDASE |
| 653 | E838 | CA411536 | 379 | 50 | 6.00E-06 | METALLOTIONEIN |
| 654 | E839 | CA411537 | 426 | 97 | 5.00E-20 | STRESS RESPONSIVE PROTEIN HOMOLOG |
| 655 | E844 | CA411542 | 709 | 278 | 7.00E-75 | HEAT SHOCH PROTEIN 90 |
| 656 | E851 | CA411549 | 703 | 187 | 1.00E-47 | PR-10 2D PROTEIN |
| 657 | E852 | CA411550 | 714 | 275 | 6.00E-74 | THAUMATIN-LIKE PROTEIN |
| 658 | E853 | CA411551 | 718 | 185 | 6.00E-47 | PR-10 2D PROTEIN |
| 659 | | | | | | |
| 660 | IV UNKNOWN FUNCTION | | | | | |
| 661 | FUNCTION UNKNOWN IN PLANTS: category 13 | | | | | |
| 662 | E045 | CA410775 | 494 | 171 | 2.00E-42 | TRANSLATIONALLY CONTROLLED TUMOR PROTEIN |
| 663 | E067 | CA410796 | 517 | 60 | 6.00E-09 | MYOSIN HEAVY CHAIN-LIKE |
| 664 | E072 | CA410800 | 607 | 81 | 3.00E-15 | SIMILAR TO DROSOPHILA COUCH POTATO PROTEIN |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|----------------------|---------------------|-----|-------|----------|---|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 665 | E216 | CA410935 | 437 | 129 | 6.00E-30 | SIMILARITY TO HEPARANASE |
| 666 | E334 | CA411046 | 507 | 171 | 1.00E-42 | HYP. PROT./candidate tumor suppressor 124 2e-28 |
| 667 | E586 | CA411290 | 615 | 189 | 3.00E-48 | TRANSLATIONALLY CONTROLLED TUMOR PROTEIN |
| 668 | E728 | CA411429 | 729 | 134 | 1.00E-31 | SURFEIT 1 |
| 669 | E729 | CA411430 | 717 | 134 | 1.00E-31 | SURFEIT 1 |
| 670 | E754 | CA411454 | 677 | 93 | 3.00E-21 | VIRf-INTERACTING PROTEIN FIP1 (A. t.) |
| 671 | E777 | CA411476 | 709 | 210 | 2.00E-54 | TRANSLATIONALLY CONTROLLED TUMOR PROTEIN H |
| 672 | E812 | CA411510 | 705 | 72 | 1.00E-12 | BRAIN SECRETORY PROTEIN HSEC10P |
| 673 | | | | | | |
| 674 | UNKNOWN FUNCTION: 14 | | | | | |
| 675 | E015 | CA410745 | 515 | 80 | 4.00E-15 | GENOMIC DNA, CHROMOSOME5, TAC CLONE |
| 676 | E016 | CA410746 | 505 | 65 | 6.00E-11 | HYP. PROTEIN |
| 677 | E021 | CA410751 | 532 | 149 | 6.00E-36 | HYP 30.5 KDA .PROTEIN/ S 24 KDA SEED MADURATION |
| 678 | E024 | CA410754 | 527 | 117 | 2.00E-26 | PRE-MRNA SPLICING FACTOR SF2 |
| 679 | E028 | CA410758 | 492 | 66 | 1.00E-10 | HYP. 45.5 KDA PROTEIN (A.t) |
| 680 | E034 | CA410764 | 513 | 129 | 6.00E-30 | GEN AAF69699 AC016041 (A.t.) |
| 681 | E041 | CA410771 | 518 | 65 | 2.00E-10 | 29 PROTEIN (A.t.) |
| 682 | E048 | CA410778 | 502 | 79 | 1.00E-14 | HYP. 82.1 KDA PROTEIN (A.t.) |
| 683 | E052 | CA410782 | 509 | 79 | 1.00E-14 | HYP 82.1 KDA .PROTEIN/ |
| 684 | E064 | CA410793 | 515 | 79 | 1.00E-14 | HYP. 36.8 KDA PROTEIN (A.t) |
| 685 | E074 | CA526336 | 501 | 87 | 4.00E-17 | GENOMIC DNA, CHROMOSOME 5, P1 CLONE |
| 686 | E089 | CA410816 | 583 | 60 | 5.00E-09 | HYP. 65 KDA PROTEIN |
| 687 | E097 | CA410823 | 517 | 114 | 2.00E-25 | 7 PROTEIN (A.t.) |
| 688 | E103 | CA410828 | 539 | 53 | 7.00E-07 | T5A14.10 PROTEIN |
| 689 | E104 | CA410829 | 492 | 66 | 9.00E-11 | HYP. PROTEIN |
| 690 | E117 | CA410842 | 474 | 59 | 9.00E-09 | GENOMIC DNA, CHROMOSOME 3 P1 CLONE |
| 691 | E118 | CA410843 | 545 | 82 | 3.00E-17 | AAD27719.GENE (A.t.) |
| 692 | E126 | CA410851 | 477 | 105 | 1.00E-22 | UNNAMED PROTEIN PRODUCT (Helianthus annus) |
| 693 | E127 | CA410852 | 310 | 78 | 4.00E-14 | HYP. PROTEIN |
| 694 | E129 | CA410854 | 528 | 102 | 9.00E-22 | HYP. 34.4 KDA PROTEIN |
| 695 | E145 | CA410870 | 456 | 79 | 2.00E-14 | MTN5 GENE PRECURSOR |
| 696 | E146 | CA410871 | 490 | 137 | 2.00E-32 | HYP. PROTEIN |
| 697 | E148 | CA410873 | 451 | 151 | 1.00E-36 | HYP. PROTEIN |
| 698 | E153 | CA410878 | 490 | 84 | 3.00E-16 | HYP. 39.2 KDA PROTEIN |
| 699 | E157 | CA410882 | 491 | 93 | 6.00E-19 | HYP. 30.6 KDA PROTEIN |
| 700 | E158 | CA410883 | 470 | 99 | 1.00E-20 | AAF32311 GENE (A.t.) |
| 701 | E161 | CA410886 | 479 | 102 | 1.00E-21 | HYP. 32.8 KDA PROTEIN |
| 702 | E163 | CA410888 | 428 | 120 | 4.00E-27 | EPSILON1-COP |
| 703 | E168 | CA410893 | 502 | 172 | 7.00E-43 | HYP. 23.7 KDA PROTEIN |
| 704 | E181 | CA410905 | 526 | 84 | 2.00E-16 | HYP. PROTEIN T18A20 |
| 705 | E183 | CA410907 | 452 | 69 | 2.00E-11 | CODED FOR BY A. thaliana CDNA T22029 |
| 706 | E191 | CA526342 | 475 | 110 | 3.00E-24 | T9I22.1 PROTEIN |
| 707 | E202 | CA410922 | 440 | 178 | 1.00E-44 | F5011.10 PROTEIN |
| 708 | E212 | CA410931 | 476 | 106 | 5.00E-23 | HYP. 20.5 KDA PROTEIN |
| 709 | E222 | CA410941 | 442 | 153 | 4.00E-37 | CSF-3 PROTEIN |
| 710 | E243 | CA410961 | 411 | 80 | 7.00E-15 | SYMILARITY TO UNKNOWN PROTEIN (A. t.) |
| 711 | E244 | CA410962 | 425 | 103 | 4.00E-22 | HYP. PROTEIN |
| 712 | E245 | CA410963 | 428 | 91 | 3.00E-18 | HYP. 22.7 KDA PROTEIN |
| 713 | E250 | CA410968 | 439 | 170 | 4.00E-42 | F25I18.4 PROTEIN (A. t.) |
| 714 | E251 | CA410969 | 566 | 64 | 4.00E-10 | F20H23.20 PROTEIN (A.t.) |
| 715 | E269 | CA410987 | 437 | 129 | 7.00E-30 | HYP. 49.9 KDA PROTEIN |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|------|---------------------|-----|-------|----------|---|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 716 | E270 | CA410988 | 478 | 129 | 7.00E-30 | AT2G25280 PROTEIN |
| 717 | E273 | CA410991 | 422 | 47 | 7.00E-05 | F611.13 PROTEIN |
| 718 | E286 | CA411002 | 441 | 84 | 3.00E-16 | HYP. PROTEIN |
| 719 | E299 | CA411013 | 422 | 124 | 2.00E-28 | HYP. 19.9 KDA PROTEIN |
| 720 | E305 | CA411019 | 449 | 62 | 1.00E-09 | GENOMIC DNA CHROMOSOME 5, TAC CLONE |
| 721 | E321 | CA411033 | 465 | 100 | 3.00E-21 | UNKNOWN PROTEIN |
| 722 | E322 | CA411034 | 382 | 79 | 8.00E-18 | F1E22.17 PROTEIN (A.t) |
| 723 | E329 | CA411041 | 449 | 150 | 3.00E-36 | T26B15 PROT/ probable carboxymethylenebutenollidase |
| 724 | E335 | CA411047 | 419 | 97 | 4.00E-08 | HYP. 44.2 KDA PROTEIN |
| 725 | E337 | CA411049 | 492 | 132 | 7.00E-31 | F21F23 PROTEIN |
| 726 | E356 | CA411068 | 462 | 112 | 1.00E-24 | HYP. PRTEIN |
| 727 | E367 | CA411078 | 353 | 49 | 2.00E-05 | HYP. 6.1 KDA PROTEIN |
| 728 | E383 | CA411092 | 457 | 92 | 2.00E-18 | RDA23 PROTEIN |
| 729 | E392 | CA411099 | 729 | 178 | 7.00E-45 | SIMILARITY TO UNKNOW PROTEIN |
| 730 | E409 | CA411116 | 697 | 235 | 4.00E-62 | F20B24 PROT/ ATP citrate lyase 109 5e-24 |
| 731 | E411 | CA411118 | 594 | 48 | 2.00E-05 | GENOMIC DNA, CHROMOSOME 3 P1 CLONE |
| 732 | E415 | CA411122 | 766 | 116 | 5.00E-26 | F17L21 PROTEIN (A.t.) |
| 733 | E421 | CA411128 | 773 | 97 | 6.00E-20 | HYP. 31.0 KDA PROTEIN |
| 734 | E422 | CA411129 | 632 | 185 | 6.00E-47 | |
| 735 | E430 | CA411137 | 658 | 80 | 4.00E-15 | GENOMIC DNA, CHROMOSOME 3 P1 CLONE |
| 736 | E437 | CA411144 | 609 | 127 | 2.00E-29 | SIN3 ASSOCIATED POLYPEPTIDE |
| 737 | E443 | CA411150 | 727 | 188 | 9.00E-48 | SIMILARITY TO UNKNOW PROTEIN |
| 738 | E446 | CA411153 | 634 | 145 | 9.00E-35 | F5D14.18 PROTEIN (contain a PPR repeat domain) |
| 739 | E457 | CA411164 | 464 | 82 | 2.00E-15 | AT2G220490 PROTEIN |
| 740 | E458 | CA411165 | 415 | 119 | 2.00E-26 | HYP. PROTEIN (Oriza sativa) |
| 741 | E460 | CA411167 | 758 | 59 | 6.00E-09 | GENOMIC DNA, CHROMOSOME 5, BAC CLONE |
| 742 | E463 | CA411170 | 662 | 105 | 3.00E-23 | GH1 PROTEIN |
| 743 | E474 | CA411180 | 729 | 96 | 6.00E-20 | CG12128 PROTEIN |
| 744 | E479 | CA411185 | 707 | 91 | 1.00E-18 | AAD30228 PROTEIN |
| 745 | E484 | CA411190 | 587 | 67 | 6.00E-11 | GENOMIC DNA CHROMOSOME 5, P1 CLONE |
| 746 | E501 | CA411207 | 656 | 161 | 2.00E-39 | HYP. 26.2 KDA PROTEIN |
| 747 | E507 | CA411212 | 503 | 79 | 1.00E-14 | HYP. 7.3 KDA PROTEIN |
| 748 | E509 | CA411214 | 723 | 147 | 1.00E-35 | HYP. 62.5 KDA PROTEIN |
| 749 | E521 | CA411226 | 736 | 156 | 2.00E-38 | AAFE4232 PROTEIN |
| 750 | E538 | CA411243 | 396 | 66 | 1.00E-16 | F10A16 PROTEIN |
| 751 | E544 | CA411249 | 570 | 88 | 2.00E-17 | T12H1 PROTEIN |
| 752 | E546 | CA411251 | 721 | 224 | 1.00E-58 | F14P13 PROTEIN |
| 753 | E551 | CA411256 | 526 | 98 | 3.00E-20 | T12C22 |
| 754 | E559 | CA411264 | 721 | 125 | 6.00E-29 | HYP. 71.4 KDA PROTEIN |
| 755 | E563 | CA411268 | 726 | 192 | 6.00E-49 | HYP. PROTEIN |
| 756 | E567 | CA411272 | 727 | 185 | 7.00E-47 | ESTS AU097575 |
| 757 | E575 | CA411279 | 647 | 70 | 3.00E-12 | F411.12 PROTEIN |
| 758 | E580 | CA411284 | 642 | 80 | 3.00E-15 | HYP. 76.2 KDA PROTEIN |
| 759 | E589 | CA411293 | 693 | 152 | 5.00E-37 | HYP. 20.8 KDA PROTEIN |
| 760 | E593 | CA411297 | 717 | 153 | 3.00E-37 | AT2G15290 HYP. PROTEIN |
| 761 | E613 | CA411316 | 526 | 62 | 4.00E-10 | AT2G30270 HYP. PROTEIN |
| 762 | E614 | CA411317 | 714 | 72 | 8.00E-13 | HYP.21.5 KDA PROTEIN |
| 763 | E615 | CA411318 | 745 | 206 | 2.00E-53 | HYP. 29.4 KDA PROTEIN |
| 764 | E619 | CA411322 | 736 | 88 | 9.00E-18 | AT2G15590 PROTEIN |
| 765 | E632 | CA411334 | 712 | 185 | 5.00E-47 | REIR1A PROTEIN |
| 766 | E634 | CA411336 | 708 | 124 | 2.00E-28 | GENOMIC DNA CHROMOSOME 3, P1 CLONE |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|--------------------------------------|---------------------|-----|-------|----------|---|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 767 | E645 | CA411347 | 576 | 90 | 5.00E-18 | CAB89373 PROTEIN |
| 768 | E653 | CA411355 | 214 | 61 | 4.00E-09 | ORF 107A A. t. |
| 769 | E661 | CA411363 | 426 | 54 | 4.00E-07 | AT2G33470 PROTEIN |
| 770 | E663 | CA411365 | 582 | 171 | 2.00E-42 | AT2G33470 PROTEIN |
| 771 | E664 | CA411366 | 456 | 50 | 5.00E-06 | HYP. 33.1 KDA PROTEIN |
| 772 | E679 | CA411381 | 707 | 97 | 2.00E-20 | AT2G15910 PROTEIN |
| 773 | E682 | CA411384 | 678 | 51 | 2.00E-06 | AAF81354 PROTEIN |
| 774 | E692 | CA411393 | 630 | 97 | 3.00E-20 | HYP. PROTEIN |
| 775 | E715 | CA411416 | 722 | 67 | 2.00E-11 | GENOMIC DNA CHROMOSOME 5, P1 CLONE |
| 776 | E722 | CA411423 | 723 | 64 | 3.00E-10 | AAD25786 PROTEIN |
| 777 | E734 | CA411435 | 643 | 107 | 2.00E-23 | HYP. 17.7 PROTEIN (Picea mariana) |
| 778 | E737 | CA411438 | 639 | 81 | 2.00E-15 | HYP. 313.3 KDA PROTEIN (A.t.) |
| 779 | E739 | CA411440 | 641 | 83 | 7.00E-17 | T15F16 PROTEIN |
| 780 | E751 | CA411451 | 742 | 231 | 6.00E-61 | GENOMIC DNA CHROMOSOME 5, P1 CLONE |
| 781 | E756 | CA411456 | 731 | 79 | 5.00E-15 | SIMILARITY TO UNKNOWN PROTEIN |
| 782 | E758 | CA411458 | 711 | 53 | 4.00E-07 | GENOMIC DNA CHROMOSOME 5, P1 CLONE |
| 783 | E767 | CA411466 | 729 | 149 | 6.00E-36 | F14D16 PROTEIN |
| 784 | E774 | CA411473 | 726 | 204 | 9.00E-53 | HYP. 28.8 KDA PROTEIN |
| 785 | E793 | CA411492 | 692 | 110 | 3.00E-24 | SIMILARITY TO UNKNOWN PROTEIN |
| 786 | E794 | CA411493 | 700 | 80 | 2.00E-15 | HYP. 15.6 KDA PROTEIN |
| 787 | E800 | CA411499 | 727 | 49 | 6.00E-06 | HYP. 70.7 KDA PROTEIN (Schizosaccharomyces pombe) |
| 788 | E803 | CA411502 | 682 | 185 | 5.00E-47 | PROTEIN L1R18B |
| 789 | E811 | CA411509 | 713 | 108 | 7.00E-24 | CAB70981 PROTEIN |
| 790 | E826 | CA411524 | 708 | 141 | 1.00E-33 | AT2G42620 PROTEIN |
| 791 | E837 | CA411535 | 709 | 72 | 1.00E-12 | AT2G17710 PROTEIN |
| 792 | E846 | CA411544 | 549 | 97 | 4.00E-20 | HYP. 8.7 KDA PROT. |
| 793 | E849 | CA411547 | 735 | 145 | 7.00E-35 | SIMILAR TO PHZF, CATALYZING THE HYDROXYLATION |
| 794 | | | | | | |
| 795 | NO SIGNIFICANT HOMOLOGY: category 15 | | | | | |
| 796 | E006 | CA410736 | 267 | 30 | | NO SIGNIFICANT MATCH |
| 797 | E017 | CA410747 | 501 | 32 | | NO SIGNIFICANT MATCH |
| 798 | E031 | CA410761 | 456 | 46 | | NO SIGNIFICANT MATCH |
| 799 | E063 | CA410792 | 453 | 32 | | NO SIGNIFICANT MATCH |
| 800 | E077 | CA410804 | 564 | 35 | | NO SIGNIFICANT MATCH |
| 801 | E086 | CA410813 | 441 | 44 | | NO SIGNIFICANT MATCH |
| 802 | E114 | CA410839 | 478 | 37 | | NO SIGNIFICANT MATCH |
| 803 | E132 | CA410857 | 286 | 31 | | NO SIGNIFICANT MATCH |
| 804 | E141 | CA410866 | 306 | 32 | | NO SIGNIFICANT MATCH |
| 805 | E156 | CA410881 | 447 | 32 | | NO SIGNIFICANT MATCH |
| 806 | E160 | CA410885 | 437 | 33 | | NO SIGNIFICANT MATCH |
| 807 | E165 | CA410890 | 475 | 31 | | NO SIGNIFICANT MATCH |
| 808 | E174 | CA410898 | 238 | 35 | | NO SIGNIFICANT MATCH |
| 809 | E178 | CA410902 | 482 | 41 | | NO SIGNIFICANT MATCH |
| 810 | E211 | CA410930 | 401 | 157 | | NO SIGNIFICANT MATCH |
| 811 | E214 | CA410933 | 291 | 33 | | NO SIGNIFICANT MATCH |
| 812 | E217 | CA410936 | 447 | 45 | | NO SIGNIFICANT MATCH |
| 813 | E223 | CA410942 | 424 | 37 | | NO SIGNIFICANT MATCH |
| 814 | E234 | CA410953 | 477 | 335 | | NO SIGNIFICANT MATCH |
| 815 | E259 | CA410977 | 357 | 30 | | NO SIGNIFICANT MATCH |
| 816 | E268 | CA410986 | 430 | 32 | | NO SIGNIFICANT MATCH |
| 817 | E310 | CA411023 | 489 | 45 | | NO SIGNIFICANT MATCH |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|--------------------------------|---------------------|-----|-------|---------|----------------------|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 818 | E324 | CA411036 | 460 | 31 | | NO SIGNIFICANT MATCH |
| 819 | E326 | CA411038 | 382 | 45 | | NO SIGNIFICANT MATCH |
| 820 | E333 | CA411045 | 503 | 35 | | NO SIGNIFICANT MATCH |
| 821 | E336 | CA411048 | 463 | 43 | | NO SIGNIFICANT MATCH |
| 822 | E347 | CA411059 | 437 | 35 | | NO SIGNIFICANT MATCH |
| 823 | E351 | CA411063 | 427 | 39 | | NO SIGNIFICANT MATCH |
| 824 | E353 | CA411065 | 453 | 31 | | NO SIGNIFICANT MATCH |
| 825 | E358 | CA411070 | 427 | 30 | | NO SIGNIFICANT MATCH |
| 826 | E374 | CA411084 | 378 | 31 | | NO SIGNIFICANT MATCH |
| 827 | E385 | CA411094 | 312 | 35 | | NO SIGNIFICANT MATCH |
| 828 | E387 | CA411096 | 396 | 36 | | NO SIGNIFICANT MATCH |
| 829 | E390 | CA411098 | 593 | 31 | | NO SIGNIFICANT MATCH |
| 830 | E412 | CA411119 | 412 | 34 | | NO SIGNIFICANT MATCH |
| 831 | E424 | CA411131 | 557 | 41 | | NO SIGNIFICANT MATCH |
| 832 | E435 | CA411142 | 732 | 30 | | NO SIGNIFICANT MATCH |
| 833 | E467 | CA411173 | 380 | 30 | | NO SIGNIFICANT MATCH |
| 834 | E468 | CA411174 | 571 | 33 | | NO SIGNIFICANT MATCH |
| 835 | E483 | CA411189 | 729 | 31 | | NO SIGNIFICANT MATCH |
| 836 | E493 | CA411199 | 216 | 32 | | NO SIGNIFICANT MATCH |
| 837 | E533 | CA411238 | 537 | 26 | | NO SIGNIFICANT MATCH |
| 838 | E542 | CA411247 | 429 | 31 | | NO SIGNIFICANT MATCH |
| 839 | E558 | CA411263 | 454 | 40 | | NO SIGNIFICANT MATCH |
| 840 | E584 | CA411288 | 700 | 29 | | NO SIGNIFICANT MATCH |
| 841 | E610 | CA411313 | 421 | 36 | | NO SIGNIFICANT MATCH |
| 842 | E624 | CA526354 | 583 | 44 | | NO SIGNIFICANT MATCH |
| 843 | E665 | CA411367 | 279 | 38 | | NO SIGNIFICANT MATCH |
| 844 | E667 | CA411369 | 537 | 30 | | NO SIGNIFICANT MATCH |
| 845 | E700 | CA411401 | 684 | 45 | | NO SIGNIFICANT MATCH |
| 846 | E711 | CA411412 | 737 | 41 | | NO SIGNIFICANT MATCH |
| 847 | E714 | CA411415 | 714 | 33 | | NO SIGNIFICANT MATCH |
| 848 | E719 | CA411420 | 621 | 29 | | NO SIGNIFICANT MATCH |
| 849 | E721 | CA411422 | 375 | 31 | | NO SIGNIFICANT MATCH |
| 850 | E738 | CA411439 | 416 | 33 | | NO SIGNIFICANT MATCH |
| 851 | E748 | CA411448 | 533 | 45 | | NO SIGNIFICANT MATCH |
| 852 | E753 | CA411453 | 715 | 38 | | NO SIGNIFICANT MATCH |
| 853 | E770 | CA411469 | 298 | 30 | | NO SIGNIFICANT MATCH |
| 854 | E779 | CA411478 | 720 | 42 | | NO SIGNIFICANT MATCH |
| 855 | E789 | CA411488 | 398 | 31 | | NO SIGNIFICANT MATCH |
| 856 | E802 | CA411501 | 644 | 30 | | NO SIGNIFICANT MATCH |
| 857 | E824 | CA411522 | 714 | 34 | | NO SIGNIFICANT MATCH |
| 858 | E840 | CA411538 | 718 | 30 | | NO SIGNIFICANT MATCH |
| 859 | E842 | CA411540 | 711 | 35 | | NO SIGNIFICANT MATCH |
| 860 | | | | | | |
| 861 | NO HOMOLOGY FOUND: category 16 | | | | | |
| 862 | E020 | CA410750 | 357 | | | NO HITS FOUND |
| 863 | E106 | CA410831 | 479 | | | NO HITS FOUND |
| 864 | E137 | CA410862 | 481 | | | NO HITS FOUND |
| 865 | E150 | CA410875 | 515 | | | NO HITS FOUND |
| 866 | E151 | CA410876 | 475 | | | NO HITS FOUND |
| 867 | E169 | CA410894 | 194 | | | NO HITS FOUND |
| 868 | E233 | CA410952 | 155 | | | NO HITS FOUND |

834 ESTs 7-10 DAE all categories

| | A | B | C | D | E | F |
|-----|------|---------------------|-----|-------|---------|---------------|
| 6 | L# | GenBank accession # | bp | score | E-value | annotation |
| 869 | E240 | CA410958 | 479 | | | NO HITS FOUND |
| 870 | E256 | CA410974 | 456 | | | NO HITS FOUND |
| 871 | E290 | CA411006 | 438 | | | NO HITS FOUND |
| 872 | E297 | CA411012 | 413 | | | NO HITS FOUND |
| 873 | E366 | CA411077 | 274 | | | NO HITS FOUND |
| 874 | E386 | CA411095 | 304 | | | NO HITS FOUND |
| 875 | E459 | CA411166 | 377 | | | NO HITS FOUND |
| 876 | E545 | CA411250 | 643 | | | NO HITS FOUND |
| 877 | E553 | CA411258 | 467 | | | NO HITS FOUND |
| 878 | E556 | CA411261 | 467 | | | NO HITS FOUND |
| 879 | E568 | CA411273 | 729 | | | NO HITS FOUND |
| 880 | E569 | CA411274 | 163 | | | NO HITS FOUND |
| 881 | E698 | CA411399 | 687 | | | NO HITS FOUND |
| 882 | E718 | CA411419 | 284 | | | NO HITS FOUND |
| 883 | E735 | CA411436 | 733 | | | NO HITS FOUND |
| 884 | E809 | CA411507 | 684 | | | NO HITS FOUND |