**Table S2. The list of Arabidopsis pollen-specific, non-HRGP genes obtained from Ensembl Plants Biomart.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene stable ID | Gene name | Gene description | Chromosome/scaffold name | Gene start (bp) | Gene end (bp) | Strand |
| AT1G01310 |  |  | 1 | 120154 | 121130 | 1 |
| AT1G01460 | PIP5K10 | Phosphatidylinositol 4-phosphate 5-kinase 10 [Source:UniProtKB/Swiss-Prot;Acc:Q9LMN1] | 1 | 168559 | 171386 | 1 |
| AT1G01980 |  |  | 1 | 340108 | 342040 | -1 |
| AT1G03050 |  | Putative clathrin assembly protein At1g03050 [Source:UniProtKB/Swiss-Prot;Acc:Q9SA65] | 1 | 707485 | 710041 | 1 |
| AT1G04470 |  |  | 1 | 1210924 | 1214841 | -1 |
| AT1G04500 |  |  | 1 | 1221411 | 1224539 | -1 |
| AT1G04540 |  |  | 1 | 1236754 | 1239199 | 1 |
| AT1G04670 |  |  | 1 | 1301829 | 1302758 | 1 |
| AT1G04880 | HMGB15 | High mobility group B protein 15 [Source:UniProtKB/Swiss-Prot;Acc:Q9MAT6] | 1 | 1375824 | 1379228 | -1 |
| AT1G05910 |  | ATPase family AAA domain-containing protein At1g05910 [Source:UniProtKB/Swiss-Prot;Acc:F4IAE9] | 1 | 1790216 | 1796715 | 1 |
| AT1G06540 |  |  | 1 | 2001406 | 2003446 | -1 |
| AT1G06750 |  |  | 1 | 2072979 | 2076505 | 1 |
| AT1G06970 | CHX14 | Cation/H(+) antiporter 14 [Source:UniProtKB/Swiss-Prot;Acc:Q9LMJ1] | 1 | 2137871 | 2140975 | 1 |
| AT1G07060 |  |  | 1 | 2166348 | 2168397 | -1 |
| AT1G07330 |  |  | 1 | 2250920 | 2254036 | 1 |
| AT1G07340 | STP2 | Sugar transport protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9LNV3] | 1 | 2254822 | 2256850 | 1 |
| AT1G08170 |  | Histone H2B.2 [Source:UniProtKB/Swiss-Prot;Acc:Q9SGE3] | 1 | 2562769 | 2563706 | -1 |
| AT1G09575 |  | Calcium uniporter protein 6, mitochondrial [Source:UniProtKB/Swiss-Prot;Acc:F4I111] | 1 | 3101149 | 3103677 | -1 |
| AT1G09890 |  |  | 1 | 3214049 | 3217603 | -1 |
| AT1G10090 |  | CSC1-like protein At1g10090 [Source:UniProtKB/Swiss-Prot;Acc:Q94A87] | 1 | 3290311 | 3296198 | -1 |
| AT1G10680 | ABCB10 | ABC transporter B family member 10 [Source:UniProtKB/Swiss-Prot;Acc:Q9SGY1] | 1 | 3538333 | 3543925 | -1 |
| AT1G11040 |  |  | 1 | 3678981 | 3681032 | -1 |
| AT1G11250 | SYP125 | Syntaxin-125 [Source:UniProtKB/Swiss-Prot;Acc:Q9SXB0] | 1 | 3768521 | 3770102 | 1 |
| AT1G11610 | CYP71A18 | Cytochrome P450 71A18 [Source:UniProtKB/Swiss-Prot;Acc:Q9SAB6] | 1 | 3906862 | 3909338 | -1 |
| AT1G12260 | NAC007 | NAC domain-containing protein 7 [Source:UniProtKB/Swiss-Prot;Acc:Q9FWX2] | 1 | 4162826 | 4165928 | -1 |
| AT1G13890 | SNAP30 | Putative SNAP25 homologous protein SNAP30 [Source:UniProtKB/Swiss-Prot;Acc:Q9LMG8] | 1 | 4751432 | 4753018 | 1 |
| AT1G13950 | ELF5A-1 | Eukaryotic translation initiation factor 5A-1 [Source:UniProtKB/Swiss-Prot;Acc:Q9XI91] | 1 | 4773434 | 4774935 | 1 |
| AT1G14640 |  |  | 1 | 5023426 | 5025955 | 1 |
| AT1G15050 | IAA34 | Auxin-responsive protein IAA34 [Source:UniProtKB/Swiss-Prot;Acc:Q9C5X0] | 1 | 5181991 | 5183413 | -1 |
| AT1G15990 | CNGC7 | Putative cyclic nucleotide-gated ion channel 7 [Source:UniProtKB/Swiss-Prot;Acc:Q9S9N5] | 1 | 5491133 | 5494192 | -1 |
| AT1G16360 | ALIS4 | Putative ALA-interacting subunit 4 [Source:UniProtKB/Swiss-Prot;Acc:Q9SA35] | 1 | 5593270 | 5595814 | -1 |
| AT1G16760 |  |  | 1 | 5734190 | 5737704 | 1 |
| AT1G16770 |  |  | 1 | 5737839 | 5739377 | 1 |
| AT1G17150 |  |  | 1 | 5865707 | 5867495 | 1 |
| AT1G17540 |  |  | 1 | 6029138 | 6032860 | -1 |
| AT1G18130 |  |  | 1 | 6235895 | 6238799 | 1 |
| AT1G18280 |  |  | 1 | 6294160 | 6295372 | 1 |
| AT1G18410 |  |  | 1 | 6336300 | 6342527 | -1 |
| AT1G18530 | CML15 | Probable calcium-binding protein CML15 [Source:UniProtKB/Swiss-Prot;Acc:Q9FZ75] | 1 | 6376623 | 6377256 | 1 |
| AT1G18990 | MYOB5 | Probable myosin-binding protein 5 [Source:UniProtKB/Swiss-Prot;Acc:Q9LMC8] | 1 | 6558574 | 6560561 | -1 |
| AT1G19090 |  |  | 1 | 6589835 | 6592762 | 1 |
| AT1G19500 |  |  | 1 | 6754665 | 6755684 | -1 |
| AT1G19780 | CNGC8 | Putative cyclic nucleotide-gated ion channel 8 [Source:UniProtKB/Swiss-Prot;Acc:Q9FXH6] | 1 | 6833669 | 6836633 | -1 |
| AT1G19890 | MGH3 | Histone H3-like 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9FXI7] | 1 | 6904963 | 6906028 | 1 |
| AT1G19930 |  | Putative F-box/kelch-repeat protein At1g19930 [Source:UniProtKB/Swiss-Prot;Acc:Q3ED92] | 1 | 6917020 | 6918138 | 1 |
| AT1G20080 | SYT2 | Synaptotagmin-2 [Source:UniProtKB/Swiss-Prot;Acc:B6ETT4] | 1 | 6962030 | 6965443 | 1 |
| AT1G20130 | APG | Anther-specific proline-rich protein APG [Source:UniProtKB/Swiss-Prot;Acc:P40602] | 1 | 6977753 | 6980241 | 1 |
| AT1G20280 |  |  | 1 | 7023682 | 7024439 | 1 |
| AT1G22130 | AGL104 | Agamous-like MADS-box protein AGL104 [Source:UniProtKB/Swiss-Prot;Acc:Q9LM46] | 1 | 7812211 | 7814345 | -1 |
| AT1G23210 |  | Endoglucanase 4 [Source:UniProtKB/Swiss-Prot;Acc:O49296] | 1 | 8240145 | 8242261 | 1 |
| AT1G23350 |  |  | 1 | 8293020 | 8294264 | -1 |
| AT1G23420 | YAB4 | Axial regulator YABBY 4 [Source:UniProtKB/Swiss-Prot;Acc:Q9LDT3] | 1 | 8317297 | 8319491 | 1 |
| AT1G24110 | PER6 | Peroxidase 6 [Source:UniProtKB/Swiss-Prot;Acc:O48677] | 1 | 8527714 | 8529018 | 1 |
| AT1G24620 | CML25 | Probable calcium-binding protein CML25 [Source:UniProtKB/Swiss-Prot;Acc:Q9FYK2] | 1 | 8723627 | 8724711 | -1 |
| AT1G25240 |  | Putative clathrin assembly protein At1g25240 [Source:UniProtKB/Swiss-Prot;Acc:Q9FRH3] | 1 | 8845142 | 8846726 | 1 |
| AT1G26310 | CAL | Transcription factor CAULIFLOWER [Source:UniProtKB/Swiss-Prot;Acc:Q39081] | 1 | 9099994 | 9103644 | -1 |
| AT1G26320 |  |  | 1 | 9105038 | 9107231 | 1 |
| AT1G26480 | GRF12 | 14-3-3-like protein GF14 iota [Source:UniProtKB/Swiss-Prot;Acc:Q9C5W6] | 1 | 9156279 | 9158093 | -1 |
| AT1G27720 | TAF4 | Transcription initiation factor TFIID subunit 4 [Source:UniProtKB/Swiss-Prot;Acc:Q6SJR1] | 1 | 9642486 | 9647620 | -1 |
| AT1G28270 | RALFL4 | Protein RALF-like 4 [Source:UniProtKB/Swiss-Prot;Acc:Q9FZA0] | 1 | 9882951 | 9884189 | 1 |
| AT1G28550 | RABA1I | Ras-related protein RABA1i [Source:UniProtKB/Swiss-Prot;Acc:Q9S810] | 1 | 10036601 | 10037872 | -1 |
| AT1G29090 |  |  | 1 | 10162795 | 10164452 | -1 |
| AT1G29140 |  |  | 1 | 10178902 | 10180225 | 1 |
| AT1G29630 | EXO1 | Exonuclease 1 [Source:UniProtKB/Swiss-Prot;Acc:Q8L6Z7] | 1 | 10349427 | 10353833 | 1 |
| AT1G30790 |  | F-box protein At1g30790 [Source:UniProtKB/Swiss-Prot;Acc:Q9SY20] | 1 | 10932713 | 10934066 | 1 |
| AT1G32850 | UBP11 | Putative ubiquitin carboxyl-terminal hydrolase 11 [Source:UniProtKB/Swiss-Prot;Acc:Q9MAQ3] | 1 | 11902629 | 11907049 | 1 |
| AT1G32880 |  |  | 1 | 11913928 | 11914735 | -1 |
| AT1G32950 | SBT3.4 | Subtilisin-like protease SBT3.4 [Source:UniProtKB/Swiss-Prot;Acc:F4HPF1] | 1 | 11941048 | 11944824 | 1 |
| AT1G33220 |  |  | 1 | 12044872 | 12045879 | 1 |
| AT1G35490 |  |  | 1 | 13061549 | 13063455 | 1 |
| AT1G35850 |  |  | 1 | 13330510 | 13331506 | 1 |
| AT1G35880 |  |  | 1 | 13339804 | 13341228 | -1 |
| AT1G36920 |  |  | 1 | 13982995 | 13984424 | 1 |
| AT1G42560 | MLO9 | MLO-like protein 9 [Source:UniProtKB/Swiss-Prot;Acc:Q94KB4] | 1 | 15980135 | 15983571 | -1 |
| AT1G44120 |  |  | 1 | 16780059 | 16787623 | 1 |
| AT1G45545 | WEL2 | Protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT-like 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9C638] | 1 | 17180615 | 17183237 | -1 |
| AT1G47280 |  |  | 1 | 17331972 | 17334412 | -1 |
| AT1G49290 |  |  | 1 | 18232407 | 18233680 | -1 |
| AT1G50340 |  |  | 1 | 18647376 | 18647849 | -1 |
| AT1G50390 |  |  | 1 | 18666986 | 18667677 | -1 |
| AT1G50610 | PRK5 | Pollen receptor-like kinase 5 [Source:UniProtKB/Swiss-Prot;Acc:Q9LPT1] | 1 | 18742027 | 18744805 | 1 |
| AT1G50640 | ERF3 | Ethylene-responsive transcription factor 3 [Source:UniProtKB/Swiss-Prot;Acc:O80339] | 1 | 18756972 | 18758708 | -1 |
| AT1G51260 | LPAT3 | 1-acyl-sn-glycerol-3-phosphate acyltransferase 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9SYC8] | 1 | 19003219 | 19005664 | -1 |
| AT1G51410 |  |  | 1 | 19059720 | 19061714 | 1 |
| AT1G51490 |  |  | 1 | 19094888 | 19097503 | 1 |
| AT1G52240 | ROPGEF11 | Rop guanine nucleotide exchange factor 11 [Source:UniProtKB/Swiss-Prot;Acc:Q9M811] | 1 | 19455495 | 19458069 | -1 |
| AT1G52580 | RBL5 | RHOMBOID-like protein 5 [Source:UniProtKB/Swiss-Prot;Acc:Q9SSR0] | 1 | 19587603 | 19589052 | 1 |
| AT1G52680 |  |  | 1 | 19618099 | 19619026 | -1 |
| AT1G53010 | ATL19 | Putative RING-H2 finger protein ATL19 [Source:UniProtKB/Swiss-Prot;Acc:Q9C919] | 1 | 19747847 | 19748383 | 1 |
| AT1G53260 |  |  | 1 | 19859267 | 19860976 | -1 |
| AT1G54070 |  | Dormancy-associated protein homolog 4 [Source:UniProtKB/Swiss-Prot;Acc:F4HV65] | 1 | 20182581 | 20183505 | 1 |
| AT1G54230 |  |  | 1 | 20250518 | 20252365 | 1 |
| AT1G54240 |  |  | 1 | 20252718 | 20254708 | 1 |
| AT1G54280 | ALA6 | Phospholipid-transporting ATPase 6 [Source:UniProtKB/Swiss-Prot;Acc:Q9SLK6] | 1 | 20262468 | 20267859 | -1 |
| AT1G54870 |  |  | 1 | 20458952 | 20460647 | 1 |
| AT1G55570 |  |  | 1 | 20757767 | 20760268 | 1 |
| AT1G56270 |  |  | 1 | 21071017 | 21071650 | -1 |
| AT1G57550 |  | UPF0057 membrane protein At1g57550 [Source:UniProtKB/Swiss-Prot;Acc:Q9FE70] | 1 | 21312257 | 21312919 | -1 |
| AT1G58120 |  |  | 1 | 21520401 | 21522457 | 1 |
| AT1G58210 | EMB1674 | Protein EMBRYO DEFECTIVE 1674 [Source:UniProtKB/Swiss-Prot;Acc:Q8RWD7] | 1 | 21553537 | 21554778 | 1 |
| AT1G60040 | AGL49 | Agamous-like MADS-box protein AGL49 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZUI9] | 1 | 22118974 | 22119929 | -1 |
| AT1G60240 |  |  | 1 | 22215168 | 22216329 | -1 |
| AT1G61080 |  |  | 1 | 22492878 | 22497267 | -1 |
| AT1G61290 | SYP124 | Syntaxin-124 [Source:UniProtKB/Swiss-Prot;Acc:O64791] | 1 | 22604777 | 22606385 | 1 |
| AT1G61860 |  |  | 1 | 22862655 | 22864898 | -1 |
| AT1G62170 |  | Probable non-inhibitory serpin-Z5 [Source:UniProtKB/Swiss-Prot;Acc:O04582] | 1 | 22973840 | 22975754 | 1 |
| AT1G62450 |  |  | 1 | 23115536 | 23117594 | -1 |
| AT1G62700 | NAC026 | NAC domain-containing protein 26 [Source:UniProtKB/Swiss-Prot;Acc:F4HYV5] | 1 | 23215953 | 23219209 | -1 |
| AT1G63060 |  |  | 1 | 23383971 | 23385109 | 1 |
| AT1G63930 |  |  | 1 | 23727794 | 23729403 | 1 |
| AT1G64110 |  |  | 1 | 23796698 | 23801799 | -1 |
| AT1G64320 |  |  | 1 | 23867971 | 23870703 | 1 |
| AT1G64570 |  |  | 1 | 23978613 | 23983925 | 1 |
| AT1G64820 | DTX7 | Protein DETOXIFICATION 7 [Source:UniProtKB/Swiss-Prot;Acc:Q1PFG9] | 1 | 24088605 | 24090558 | 1 |
| AT1G65590 | HEXO3 | Beta-hexosaminidase 3 [Source:UniProtKB/Swiss-Prot;Acc:Q8L7S6] | 1 | 24385552 | 24391208 | 1 |
| AT1G65760 |  | Uncharacterized protein At1g65760 [Source:UniProtKB/Swiss-Prot;Acc:P0C2F5] | 1 | 24458591 | 24459715 | 1 |
| AT1G66800 |  |  | 1 | 24924774 | 24926412 | 1 |
| AT1G67370 |  |  | 1 | 25239117 | 25243837 | -1 |
| AT1G67540 |  |  | 1 | 25311242 | 25312482 | -1 |
| AT1G67640 |  | Lysine histidine transporter-like 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9SR44] | 1 | 25351906 | 25354026 | -1 |
| AT1G67670 |  |  | 1 | 25365370 | 25365740 | 1 |
| AT1G67990 | TSM1 | Tapetum-specific methyltransferase 1 [Source:UniProtKB/Swiss-Prot;Acc:Q9C9W4] | 1 | 25489455 | 25490867 | 1 |
| AT1G68090 | ANN5 | Annexin D5 [Source:UniProtKB/Swiss-Prot;Acc:Q9C9X3] | 1 | 25519305 | 25520895 | -1 |
| AT1G68750 | PPC4 | Phosphoenolpyruvate carboxylase 4 [Source:UniProtKB/Swiss-Prot;Acc:Q8GVE8] | 1 | 25822716 | 25828147 | -1 |
| AT1G69050 |  |  | 1 | 25961604 | 25962435 | 1 |
| AT1G69280 |  |  | 1 | 26045158 | 26048190 | -1 |
| AT1G70430 |  |  | 1 | 26545189 | 26549216 | 1 |
| AT1G70540 |  |  | 1 | 26593930 | 26594770 | 1 |
| AT1G71000 |  |  | 1 | 26768792 | 26770177 | -1 |
| AT1G71470 |  |  | 1 | 26930706 | 26931568 | 1 |
| AT1G74010 |  |  | 1 | 27832095 | 27834207 | -1 |
| AT1G74220 |  |  | 1 | 27912931 | 27914161 | -1 |
| AT1G74480 | RKD2 | Protein RKD2 [Source:UniProtKB/Swiss-Prot;Acc:Q9CA66] | 1 | 27993032 | 27994178 | -1 |
| AT1G75160 |  |  | 1 | 28209407 | 28211826 | 1 |
| AT1G75290 |  |  | 1 | 28253722 | 28255173 | 1 |
| AT1G75790 |  |  | 1 | 28454781 | 28457528 | -1 |
| AT1G75870 |  |  | 1 | 28486229 | 28487443 | 1 |
| AT1G76370 |  |  | 1 | 28648327 | 28650577 | -1 |
| AT1G76640 | CML39 | Calcium-binding protein CML39 [Source:UniProtKB/Swiss-Prot;Acc:Q9SRE7] | 1 | 28765254 | 28765866 | -1 |
| AT1G77730 |  |  | 1 | 29214220 | 29215832 | 1 |
| AT1G77980 | AGL66 | Agamous-like MADS-box protein AGL66 [Source:UniProtKB/Swiss-Prot;Acc:Q1PFC2] | 1 | 29314841 | 29317186 | -1 |
| AT1G78310 | VQ9 | VQ motif-containing protein 9 [Source:UniProtKB/Swiss-Prot;Acc:Q9M9F0] | 1 | 29463548 | 29465249 | -1 |
| AT1G78940 |  |  | 1 | 29680782 | 29684180 | -1 |
| AT1G78980 | SRF5 | Protein STRUBBELIG-RECEPTOR FAMILY 5 [Source:UniProtKB/Swiss-Prot;Acc:Q6R2K1] | 1 | 29707625 | 29711421 | -1 |
| AT1G79250 | AGC1-7 | Serine/threonine-protein kinase AGC1-7 [Source:UniProtKB/Swiss-Prot;Acc:Q1PFB9] | 1 | 29810134 | 29812683 | -1 |
| AT1G79860 | ROPGEF12 | Rop guanine nucleotide exchange factor 12 [Source:UniProtKB/Swiss-Prot;Acc:Q9CA89] | 1 | 30041989 | 30044297 | -1 |
| AT1G79910 |  |  | 1 | 30054552 | 30057181 | 1 |
| AT1G80660 | AHA9 | ATPase 9, plasma membrane-type [Source:UniProtKB/Swiss-Prot;Acc:Q42556] | 1 | 30315964 | 30320197 | -1 |
| AT2G01790 |  | MATH domain and coiled-coil domain-containing protein At2g01790 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZUA7] | 2 | 341322 | 342480 | -1 |
| AT2G01810 |  | PHD finger protein At2g01810 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZUA9] | 2 | 347537 | 350179 | 1 |
| AT2G01920 |  | Putative clathrin assembly protein At2g01920 [Source:UniProtKB/Swiss-Prot;Acc:Q9SHV5] | 2 | 426052 | 427091 | 1 |
| AT2G01960 | TET14 | Tetraspanin-14 [Source:UniProtKB/Swiss-Prot;Acc:Q58G33] | 2 | 450379 | 451910 | 1 |
| AT2G02520 |  |  | 2 | 676771 | 678145 | -1 |
| AT2G03060 | AGL30 | Agamous-like MADS-box protein AGL30 [Source:UniProtKB/Swiss-Prot;Acc:Q1PFA4] | 2 | 901061 | 904149 | 1 |
| AT2G03410 |  | MO25-like protein At2g03410 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZQ77] | 2 | 1033598 | 1036009 | 1 |
| AT2G03630 |  |  | 2 | 1103205 | 1104392 | 1 |
| AT2G04220 |  |  | 2 | 1445085 | 1446507 | 1 |
| AT2G04675 |  |  | 2 | 1637437 | 1638647 | -1 |
| AT2G05270 |  |  | 2 | 1920702 | 1921116 | -1 |
| AT2G05850 | SCPL38 | Serine carboxypeptidase-like 38 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZUG3] | 2 | 2242545 | 2244851 | -1 |
| AT2G06005 |  |  | 2 | 2332317 | 2336257 | 1 |
| AT2G06040 |  |  | 2 | 2352145 | 2355597 | -1 |
| AT2G07040 | PRK2 | Pollen receptor-like kinase 2 [Source:UniProtKB/Swiss-Prot;Acc:Q84JQ4] | 2 | 2916416 | 2919392 | 1 |
| AT2G07120 |  |  | 2 | 2953605 | 2954722 | -1 |
| AT2G07560 | AHA6 | ATPase 6, plasma membrane-type [Source:UniProtKB/Swiss-Prot;Acc:Q9SH76] | 2 | 3169908 | 3174102 | -1 |
| AT2G10970 |  |  | 2 | 4332795 | 4333638 | -1 |
| AT2G13620 | CHX15 | Cation/H(+) antiporter 15 [Source:UniProtKB/Swiss-Prot;Acc:Q9SIT5] | 2 | 5677908 | 5680801 | 1 |
| AT2G13720 |  |  | 2 | 5724007 | 5725248 | 1 |
| AT2G15535 | LCR10 | Defensin-like protein 144 [Source:UniProtKB/Swiss-Prot;Acc:Q8S8H9] | 2 | 6778191 | 6778879 | 1 |
| AT2G15640 |  | F-box protein At2g15640 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZQF0] | 2 | 6816541 | 6818358 | -1 |
| AT2G16040 |  |  | 2 | 6976017 | 6977683 | 1 |
| AT2G16250 |  | Probable LRR receptor-like serine/threonine-protein kinase At2g16250 [Source:UniProtKB/Swiss-Prot;Acc:C0LGK4] | 2 | 7039682 | 7043354 | -1 |
| AT2G16730 | BGAL13 | Beta-galactosidase 13 [Source:UniProtKB/Swiss-Prot;Acc:Q9SCU9] | 2 | 7261783 | 7266346 | -1 |
| AT2G17090 | SSP | Probable inactive receptor-like kinase SSP [Source:UniProtKB/Swiss-Prot;Acc:Q7XJT7] | 2 | 7434919 | 7437314 | -1 |
| AT2G17660 |  |  | 2 | 7673145 | 7673712 | 1 |
| AT2G18080 | EDA2 | Probable serine protease EDA2 [Source:UniProtKB/Swiss-Prot;Acc:Q1PF50] | 2 | 7857139 | 7859983 | 1 |
| AT2G18270 |  |  | 2 | 7946158 | 7946406 | -1 |
| AT2G18530 |  |  | 2 | 8039670 | 8040780 | 1 |
| AT2G19000 |  |  | 2 | 8241104 | 8241795 | 1 |
| AT2G19010 |  |  | 2 | 8242951 | 8245581 | 1 |
| AT2G19040 | RALFL12 | Protein RALF-like 12 [Source:UniProtKB/Swiss-Prot;Acc:F4ISE1] | 2 | 8249877 | 8250208 | 1 |
| AT2G19050 |  | GDSL esterase/lipase At2g19050 [Source:UniProtKB/Swiss-Prot;Acc:O64468] | 2 | 8253333 | 8255676 | 1 |
| AT2G19060 |  | GDSL esterase/lipase At2g19060 [Source:UniProtKB/Swiss-Prot;Acc:O64469] | 2 | 8256921 | 8260545 | 1 |
| AT2G19180 |  |  | 2 | 8324653 | 8326223 | 1 |
| AT2G19330 | PIRL6 | Plant intracellular Ras-group-related LRR protein 6 [Source:UniProtKB/Swiss-Prot;Acc:O64566] | 2 | 8372861 | 8374453 | 1 |
| AT2G19770 | PRO4 | Profilin-4 [Source:UniProtKB/Swiss-Prot;Acc:Q38905] | 2 | 8519485 | 8521275 | -1 |
| AT2G19980 |  |  | 2 | 8627536 | 8628220 | -1 |
| AT2G20440 |  |  | 2 | 8810644 | 8813696 | -1 |
| AT2G20470 |  |  | 2 | 8826017 | 8829771 | -1 |
| AT2G21610 | PME11 | Putative pectinesterase 11 [Source:UniProtKB/Swiss-Prot;Acc:Q9SIJ9] | 2 | 9245038 | 9247052 | -1 |
| AT2G21920 |  | Putative B3 domain-containing protein At2g21920 [Source:UniProtKB/Swiss-Prot;Acc:Q9SJ07] | 2 | 9343410 | 9347159 | -1 |
| AT2G21990 |  |  | 2 | 9359318 | 9360664 | -1 |
| AT2G22180 |  |  | 2 | 9428743 | 9430141 | 1 |
| AT2G22290 | RABH1D | Ras-related protein RABH1d [Source:UniProtKB/Swiss-Prot;Acc:Q9SID8] | 2 | 9466389 | 9467948 | 1 |
| AT2G22340 |  |  | 2 | 9492864 | 9494112 | -1 |
| AT2G22520 |  |  | 2 | 9572066 | 9572791 | 1 |
| AT2G22950 | ACA7 | Putative calcium-transporting ATPase 7, plasma membrane-type [Source:UniProtKB/Swiss-Prot;Acc:O64806] | 2 | 9766058 | 9769957 | 1 |
| AT2G24370 |  |  | 2 | 10369418 | 10373382 | -1 |
| AT2G25360 |  |  | 2 | 10804249 | 10805761 | 1 |
| AT2G25460 |  |  | 2 | 10832578 | 10835660 | -1 |
| AT2G25600 | AKT6 | Potassium channel AKT6 [Source:UniProtKB/Swiss-Prot;Acc:Q8GXE6] | 2 | 10894253 | 10898672 | 1 |
| AT2G25630 | BGLU14 | Beta-glucosidase 14 [Source:UniProtKB/Swiss-Prot;Acc:Q9SLA0] | 2 | 10908360 | 10909880 | 1 |
| AT2G26410 |  |  | 2 | 11234267 | 11236995 | -1 |
| AT2G26490 |  |  | 2 | 11267857 | 11269750 | 1 |
| AT2G27180 |  |  | 2 | 11620076 | 11621174 | 1 |
| AT2G27410 |  | Putative B3 domain-containing protein At2g27410 [Source:UniProtKB/Swiss-Prot;Acc:Q9XIP5] | 2 | 11724427 | 11725419 | -1 |
| AT2G27540 |  |  | 2 | 11768951 | 11769100 | 1 |
| AT2G28355 | LCR5 | Defensin-like protein 149 [Source:UniProtKB/Swiss-Prot;Acc:Q8S8H3] | 2 | 12119285 | 12120512 | 1 |
| AT2G28570 |  |  | 2 | 12241766 | 12242778 | 1 |
| AT2G29040 |  |  | 2 | 12472206 | 12475236 | -1 |
| AT2G29620 |  |  | 2 | 12662721 | 12666113 | -1 |
| AT2G29790 |  |  | 2 | 12720614 | 12722527 | -1 |
| AT2G29880 |  | Uncharacterized protein At2g29880 [Source:UniProtKB/Swiss-Prot;Acc:O82368] | 2 | 12742536 | 12743749 | 1 |
| AT2G30240 | CHX13 | Cation/H(+) symporter 13 [Source:UniProtKB/Swiss-Prot;Acc:O22920] | 2 | 12899575 | 12902815 | -1 |
| AT2G30290 | VSR2 | Vacuolar-sorting receptor 2 [Source:UniProtKB/Swiss-Prot;Acc:O22925] | 2 | 12912519 | 12915915 | -1 |
| AT2G30630 |  |  | 2 | 13046662 | 13049219 | -1 |
| AT2G31470 | DOR | F-box protein DOR [Source:UniProtKB/Swiss-Prot;Acc:Q5BPS3] | 2 | 13407380 | 13408720 | -1 |
| AT2G31910 | CHX21 | Cation/H(+) antiporter 21 [Source:UniProtKB/Swiss-Prot;Acc:Q9SKA9] | 2 | 13570107 | 13574632 | 1 |
| AT2G32890 | RALFL17 | Protein RALF-like 17 [Source:UniProtKB/Swiss-Prot;Acc:O48776] | 2 | 13952716 | 13954115 | -1 |
| AT2G33000 |  |  | 2 | 14006135 | 14008537 | 1 |
| AT2G33100 | CSLD1 | Cellulose synthase-like protein D1 [Source:UniProtKB/Swiss-Prot;Acc:O49323] | 2 | 14036319 | 14040544 | -1 |
| AT2G33270 |  | Thioredoxin-like 1-3, chloroplastic [Source:UniProtKB/Swiss-Prot;Acc:O22779] | 2 | 14103515 | 14105524 | 1 |
| AT2G33320 |  |  | 2 | 14119307 | 14122190 | -1 |
| AT2G33350 |  |  | 2 | 14133810 | 14137175 | 1 |
| AT2G33670 | MLO5 | MLO-like protein 5 [Source:UniProtKB/Swiss-Prot;Acc:O22815] | 2 | 14244951 | 14248155 | 1 |
| AT2G33690 |  |  | 2 | 14252154 | 14252643 | 1 |
| AT2G33870 | RABA1H | Ras-related protein RABA1h [Source:UniProtKB/Swiss-Prot;Acc:Q1PEX3] | 2 | 14337198 | 14338385 | -1 |
| AT2G34230 |  |  | 2 | 14454521 | 14457213 | 1 |
| AT2G34440 | AGL29 | Agamous-like MADS-box protein AGL29 [Source:UniProtKB/Swiss-Prot;Acc:O64703] | 2 | 14526671 | 14527734 | 1 |
| AT2G35740 | INT3 | Probable inositol transporter 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZQP6] | 2 | 15024489 | 15026626 | -1 |
| AT2G35890 | CPK25 | Calcium-dependent protein kinase 25 [Source:UniProtKB/Swiss-Prot;Acc:Q9SJ61] | 2 | 15066614 | 15069359 | -1 |
| AT2G36020 | HVA22J | HVA22-like protein j [Source:UniProtKB/Swiss-Prot;Acc:Q8GXE9] | 2 | 15123120 | 15125588 | -1 |
| AT2G37010 | WBC30 | Putative white-brown complex homolog protein 30 [Source:UniProtKB/Swiss-Prot;Acc:Q9SJK6] | 2 | 15541389 | 15546285 | 1 |
| AT2G37070 |  |  | 2 | 15578344 | 15581338 | 1 |
| AT2G37670 |  |  | 2 | 15797210 | 15800796 | -1 |
| AT2G37730 |  |  | 2 | 15822098 | 15824538 | -1 |
| AT2G37740 |  |  | 2 | 15827416 | 15828784 | -1 |
| AT2G37980 |  |  | 2 | 15893800 | 15897805 | -1 |
| AT2G38340 | DREB2E | Dehydration-responsive element-binding protein 2E [Source:UniProtKB/Swiss-Prot;Acc:O80917] | 2 | 16067396 | 16068615 | -1 |
| AT2G38500 |  |  | 2 | 16117395 | 16119187 | -1 |
| AT2G38590 |  | F-box protein At2g38590 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZVI1] | 2 | 16142897 | 16144184 | 1 |
| AT2G38910 | CPK20 | Calcium-dependent protein kinase 20 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZV15] | 2 | 16244906 | 16247855 | -1 |
| AT2G38920 | RF178 | Probable E3 ubiquitin-protein ligase BAH1-like [Source:UniProtKB/Swiss-Prot;Acc:Q8GW10] | 2 | 16248146 | 16251017 | -1 |
| AT2G39820 | EIF6-1 | Eukaryotic translation initiation factor 6-1 [Source:UniProtKB/Swiss-Prot;Acc:O22290] | 2 | 16618226 | 16619750 | 1 |
| AT2G40180 | PP2C5 | Probable protein phosphatase 2C 30 [Source:UniProtKB/Swiss-Prot;Acc:Q9XEE8] | 2 | 16782366 | 16784147 | 1 |
| AT2G40790 | CXXS2 | Thioredoxin-like protein CXXS2 [Source:UniProtKB/Swiss-Prot;Acc:Q8GXV2] | 2 | 17022952 | 17024301 | -1 |
| AT2G40990 | PAT02 | Probable protein S-acyltransferase 2 [Source:UniProtKB/Swiss-Prot;Acc:O80685] | 2 | 17105097 | 17107030 | -1 |
| AT2G41440 |  |  | 2 | 17271143 | 17274394 | 1 |
| AT2G41860 | CPK14 | Calcium-dependent protein kinase 14 [Source:UniProtKB/Swiss-Prot;Acc:P93759] | 2 | 17467282 | 17470157 | -1 |
| AT2G41970 |  | Probable protein kinase At2g41970 [Source:UniProtKB/Swiss-Prot;Acc:P93749] | 2 | 17520273 | 17522793 | -1 |
| AT2G42380 | BZIP34 | Basic leucine zipper 34 [Source:UniProtKB/Swiss-Prot;Acc:F4IN23] | 2 | 17646857 | 17649062 | -1 |
| AT2G42920 | PCMP-E75 | Pentatricopeptide repeat-containing protein At2g42920, chloroplastic [Source:UniProtKB/Swiss-Prot;Acc:Q9SJG6] | 2 | 17858655 | 17863466 | 1 |
| AT2G43270 |  | F-box/kelch-repeat protein At2g43270 [Source:UniProtKB/Swiss-Prot;Acc:Q1PEU9] | 2 | 17988175 | 17989491 | -1 |
| AT2G44570 |  | Endoglucanase 15 [Source:UniProtKB/Swiss-Prot;Acc:O80497] | 2 | 18394196 | 18396337 | -1 |
| AT2G45610 | CXE9 | Probable carboxylesterase 9 [Source:UniProtKB/Swiss-Prot;Acc:O64641] | 2 | 18791289 | 18792586 | 1 |
| AT2G46300 |  |  | 2 | 19008175 | 19009651 | 1 |
| AT2G46360 |  |  | 2 | 19028359 | 19029127 | 1 |
| AT2G46840 | DUF4 | DUF724 domain-containing protein 4 [Source:UniProtKB/Swiss-Prot;Acc:O81039] | 2 | 19248971 | 19249909 | -1 |
| AT2G46860 | PPA3 | Soluble inorganic pyrophosphatase 3 [Source:UniProtKB/Swiss-Prot;Acc:O82793] | 2 | 19253670 | 19255328 | 1 |
| AT2G47020 |  |  | 2 | 19319685 | 19322507 | -1 |
| AT2G47340 |  |  | 2 | 19432147 | 19433156 | 1 |
| AT2G48150 | GPX4 | Probable glutathione peroxidase 4 [Source:UniProtKB/Swiss-Prot;Acc:Q8L910] | 2 | 19687831 | 19689229 | -1 |
| AT3G01020 | ISU2 | Iron-sulfur cluster assembly protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9MAB6] | 3 | 5104 | 6149 | 1 |
| AT3G01250 |  |  | 3 | 79297 | 80173 | 1 |
| AT3G01620 |  |  | 3 | 235197 | 236968 | -1 |
| AT3G01630 |  |  | 3 | 237119 | 239113 | 1 |
| AT3G01880 |  |  | 3 | 307782 | 309560 | 1 |
| AT3G02440 | TBL20 | Protein trichome birefringence-like 20 [Source:UniProtKB/Swiss-Prot;Acc:Q9M896] | 3 | 500374 | 502257 | -1 |
| AT3G02480 |  |  | 3 | 512220 | 513036 | 1 |
| AT3G02810 | LIP2 | Receptor-like kinase LIP2 [Source:UniProtKB/Swiss-Prot;Acc:Q9M8S2] | 3 | 608437 | 611139 | -1 |
| AT3G03200 | NAC045 | NAC domain-containing protein 45 [Source:UniProtKB/Swiss-Prot;Acc:A4VCM0] | 3 | 734892 | 738629 | -1 |
| AT3G03430 | CML28 | Probable calcium-binding protein CML28 [Source:UniProtKB/Swiss-Prot;Acc:Q9SRP7] | 3 | 814181 | 814888 | 1 |
| AT3G03670 | PER28 | Peroxidase 28 [Source:UniProtKB/Swiss-Prot;Acc:Q9SS67] | 3 | 901728 | 903411 | -1 |
| AT3G03800 |  |  | 3 | 969050 | 971691 | 1 |
| AT3G04360 |  |  | 3 | 1156908 | 1158470 | -1 |
| AT3G04510 | LSH2 | Protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9M836] | 3 | 1215633 | 1216958 | -1 |
| AT3G04690 | ANX1 | Receptor-like protein kinase ANXUR1 [Source:UniProtKB/Swiss-Prot;Acc:Q9SR05] | 3 | 1273057 | 1276945 | -1 |
| AT3G05150 |  | Sugar transporter ERD6-like 8 [Source:UniProtKB/Swiss-Prot;Acc:Q0WQ63] | 3 | 1440014 | 1443730 | 1 |
| AT3G05770 |  |  | 3 | 1710013 | 1712225 | -1 |
| AT3G05820 | INVH | Probable alkaline/neutral invertase A, chloroplastic [Source:UniProtKB/Swiss-Prot;Acc:Q84JL5] | 3 | 1732988 | 1735765 | -1 |
| AT3G05930 | GLP8 | Germin-like protein subfamily 2 member 3 [Source:UniProtKB/Swiss-Prot;Acc:P93000] | 3 | 1770337 | 1771409 | 1 |
| AT3G05950 |  | Germin-like protein subfamily 1 member 7 [Source:UniProtKB/Swiss-Prot;Acc:Q9SFF9] | 3 | 1780938 | 1782007 | -1 |
| AT3G06260 | GATL4 | Probable galacturonosyltransferase-like 4 [Source:UniProtKB/Swiss-Prot;Acc:Q9M8J2] | 3 | 1892964 | 1895091 | -1 |
| AT3G06560 | PAPS3 | Nuclear poly(A) polymerase 3 [Source:UniProtKB/Swiss-Prot;Acc:Q56XM9] | 3 | 2044352 | 2047209 | 1 |
| AT3G07070 |  | Serine/threonine-protein kinase At3g07070 [Source:UniProtKB/Swiss-Prot;Acc:Q9SFT7] | 3 | 2237897 | 2240266 | 1 |
| AT3G07490 | CML3 | Calmodulin-like protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9SRR7] | 3 | 2391122 | 2391908 | 1 |
| AT3G07830 |  |  | 3 | 2499194 | 2501035 | -1 |
| AT3G07840 |  |  | 3 | 2501893 | 2503565 | -1 |
| AT3G07860 | SNRNP25 | U11/U12 small nuclear ribonucleoprotein 25 kDa protein [Source:UniProtKB/Swiss-Prot;Acc:Q84WS8] | 3 | 2507880 | 2509589 | 1 |
| AT3G07960 | PIP5K6 | Phosphatidylinositol 4-phosphate 5-kinase 6 [Source:UniProtKB/Swiss-Prot;Acc:Q9SFB8] | 3 | 2534776 | 2538374 | 1 |
| AT3G09070 |  | UPF0503 protein At3g09070, chloroplastic [Source:UniProtKB/Swiss-Prot;Acc:Q9SS80] | 3 | 2768641 | 2771375 | -1 |
| AT3G09530 |  |  | 3 | 2926042 | 2928569 | 1 |
| AT3G09550 |  |  | 3 | 2931101 | 2934365 | 1 |
| AT3G09590 |  |  | 3 | 2944938 | 2945513 | 1 |
| AT3G10300 | CML49 | Probable calcium-binding protein CML49 [Source:UniProtKB/Swiss-Prot;Acc:Q8W4L0] | 3 | 3186038 | 3188540 | 1 |
| AT3G10460 |  |  | 3 | 3255767 | 3256439 | 1 |
| AT3G10470 |  |  | 3 | 3260141 | 3261854 | 1 |
| AT3G10560 |  |  | 3 | 3299893 | 3301704 | 1 |
| AT3G11020 | DREB2B | Dehydration-responsive element-binding protein 2B [Source:UniProtKB/Swiss-Prot;Acc:O82133] | 3 | 3455355 | 3457342 | 1 |
| AT3G12160 | RABA4D | Ras-related protein RABA4d [Source:UniProtKB/Swiss-Prot;Acc:Q9LH50] | 3 | 3879276 | 3880669 | -1 |
| AT3G13065 | SRF4 | Protein STRUBBELIG-RECEPTOR FAMILY 4 [Source:UniProtKB/Swiss-Prot;Acc:Q6R2K2] | 3 | 4187371 | 4191298 | 1 |
| AT3G13228 |  |  | 3 | 4266964 | 4268251 | 1 |
| AT3G13420 |  |  | 3 | 4364480 | 4366969 | 1 |
| AT3G13660 | DIR22 | Dirigent protein 22 [Source:UniProtKB/Swiss-Prot;Acc:Q66GI2] | 3 | 4464797 | 4465791 | 1 |
| AT3G13782 | NAP1;4 | Nucleosome assembly protein 1;4 [Source:UniProtKB/Swiss-Prot;Acc:F4JEI8] | 3 | 4526220 | 4528646 | 1 |
| AT3G13820 |  | F-box protein At3g13820 [Source:UniProtKB/Swiss-Prot;Acc:Q9LRW6] | 3 | 4549616 | 4551011 | 1 |
| AT3G13970 | ATG12B | Ubiquitin-like protein ATG12B [Source:UniProtKB/Swiss-Prot;Acc:Q9LVK3] | 3 | 4613492 | 4614857 | -1 |
| AT3G14070 | CCX3 | Cation/calcium exchanger 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9LJI2] | 3 | 4660944 | 4663363 | -1 |
| AT3G14510 |  |  | 3 | 4867144 | 4868640 | -1 |
| AT3G16020 |  |  | 3 | 5437962 | 5439461 | 1 |
| AT3G16130 |  |  | 3 | 5466246 | 5468774 | 1 |
| AT3G16380 | PAB6 | Polyadenylate-binding protein 6 [Source:UniProtKB/Swiss-Prot;Acc:O04319] | 3 | 5558445 | 5561126 | -1 |
| AT3G17060 | PME67 | Probable pectinesterase 67 [Source:UniProtKB/Swiss-Prot;Acc:Q9LSP1] | 3 | 5816672 | 5818498 | -1 |
| AT3G17980 | CAR4 | Protein C2-DOMAIN ABA-RELATED 4 [Source:UniProtKB/Swiss-Prot;Acc:Q9LVH4] | 3 | 6152062 | 6153814 | 1 |
| AT3G18220 | LPP4 | Probable lipid phosphate phosphatase 4 [Source:UniProtKB/Swiss-Prot;Acc:Q0WNG6] | 3 | 6247900 | 6250007 | 1 |
| AT3G18300 |  |  | 3 | 6281923 | 6284372 | 1 |
| AT3G18460 | PCR4 | Protein PLANT CADMIUM RESISTANCE 4 [Source:UniProtKB/Swiss-Prot;Acc:Q9LS44] | 3 | 6333048 | 6333948 | -1 |
| AT3G18720 |  | F-box/kelch-repeat protein At3g18720 [Source:UniProtKB/Swiss-Prot;Acc:Q9LSA5] | 3 | 6444367 | 6445808 | -1 |
| AT3G19210 | CHR25 | Protein CHROMATIN REMODELING 25 [Source:UniProtKB/Swiss-Prot;Acc:Q0PCS3] | 3 | 6652695 | 6658988 | -1 |
| AT3G19690 |  |  | 3 | 6842220 | 6842856 | -1 |
| AT3G20200 |  |  | 3 | 7047409 | 7051382 | 1 |
| AT3G20530 |  |  | 3 | 7166027 | 7168060 | 1 |
| AT3G20580 | COBL10 | COBRA-like protein 10 [Source:UniProtKB/Swiss-Prot;Acc:Q9LJU0] | 3 | 7187699 | 7190648 | -1 |
| AT3G20690 |  | F-box protein At3g20690 [Source:UniProtKB/Swiss-Prot;Acc:Q1PEN8] | 3 | 7231570 | 7232682 | -1 |
| AT3G21180 | ACA9 | Calcium-transporting ATPase 9, plasma membrane-type [Source:UniProtKB/Swiss-Prot;Acc:Q9LU41] | 3 | 7425476 | 7432365 | 1 |
| AT3G22000 | CRRSP30 | Cysteine-rich repeat secretory protein 30 [Source:UniProtKB/Swiss-Prot;Acc:A0MEX7] | 3 | 7751686 | 7753348 | 1 |
| AT3G22650 |  | Putative F-box protein At3g22650 [Source:UniProtKB/Swiss-Prot;Acc:Q9LUJ6] | 3 | 8014809 | 8015960 | 1 |
| AT3G23350 |  |  | 3 | 8354077 | 8355410 | 1 |
| AT3G24620 | ROPGEF8 | Rho guanine nucleotide exchange factor 8 [Source:UniProtKB/Swiss-Prot;Acc:Q9LV40] | 3 | 8980400 | 8982903 | -1 |
| AT3G24982 |  |  | 3 | 9106000 | 9109971 | -1 |
| AT3G25820 | TPS27 | 1,8-cineole synthase 1, chloroplastic [Source:UniProtKB/Swiss-Prot;Acc:P0DI76] | 3 | 9439146 | 9442774 | 1 |
| AT3G26130 |  |  | 3 | 9551789 | 9555667 | -1 |
| AT3G26480 |  |  | 3 | 9687273 | 9690966 | -1 |
| AT3G26870 |  |  | 3 | 9903288 | 9903680 | -1 |
| AT3G26880 |  |  | 3 | 9906068 | 9906781 | -1 |
| AT3G27410 |  |  | 3 | 10145071 | 10145900 | -1 |
| AT3G27490 |  |  | 3 | 10177892 | 10180175 | -1 |
| AT3G28330 |  | F-box protein At3g28330 [Source:UniProtKB/Swiss-Prot;Acc:Q9LHD3] | 3 | 10586566 | 10587759 | -1 |
| AT3G28470 | MYB35 | Transcription factor MYB35 [Source:UniProtKB/Swiss-Prot;Acc:Q9LSI7] | 3 | 10674508 | 10675724 | -1 |
| AT3G28630 |  |  | 3 | 10728951 | 10730898 | 1 |
| AT3G28770 |  |  | 3 | 10796695 | 10803453 | 1 |
| AT3G28780 |  |  | 3 | 10805857 | 10808461 | -1 |
| AT3G28790 |  |  | 3 | 10813224 | 10815699 | -1 |
| AT3G28810 |  |  | 3 | 10822181 | 10823985 | -1 |
| AT3G28830 |  |  | 3 | 10831162 | 10833436 | 1 |
| AT3G28840 |  |  | 3 | 10838395 | 10840059 | 1 |
| AT3G29060 | PHO1-H9 | Phosphate transporter PHO1 homolog 9 [Source:UniProtKB/Swiss-Prot;Acc:Q9LJW0] | 3 | 11044731 | 11048677 | -1 |
| AT3G29970 |  |  | 3 | 11745197 | 11746570 | 1 |
| AT3G42160 |  |  | 3 | 14314583 | 14315634 | 1 |
| AT3G42880 | PRK3 | Pollen receptor-like kinase 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9M1L7] | 3 | 14954363 | 14957031 | 1 |
| AT3G43120 |  |  | 3 | 15094048 | 15095989 | 1 |
| AT3G43860 |  | Endoglucanase 16 [Source:UniProtKB/Swiss-Prot;Acc:Q8VYG3] | 3 | 15706954 | 15709989 | 1 |
| AT3G44930 | CHX10 | Cation/H(+) antiporter 10 [Source:UniProtKB/Swiss-Prot;Acc:Q58P69] | 3 | 16401891 | 16404824 | -1 |
| AT3G45220 |  | Serpin-Z4 [Source:UniProtKB/Swiss-Prot;Acc:Q9M1T7] | 3 | 16564881 | 16566330 | -1 |
| AT3G45280 | SYP72 | Syntaxin-72 [Source:UniProtKB/Swiss-Prot;Acc:Q94KK6] | 3 | 16610655 | 16613521 | -1 |
| AT3G45320 |  |  | 3 | 16631635 | 16632254 | 1 |
| AT3G45440 | LECRK16 | Probable L-type lectin-domain containing receptor kinase I.6 [Source:UniProtKB/Swiss-Prot;Acc:Q9M1G3] | 3 | 16664611 | 16667747 | -1 |
| AT3G45810 | RBOHJ | Putative respiratory burst oxidase homolog protein J [Source:UniProtKB/Swiss-Prot;Acc:Q9LZU9] | 3 | 16832726 | 16837792 | -1 |
| AT3G45950 |  |  | 3 | 16889461 | 16890803 | -1 |
| AT3G46360 |  |  | 3 | 17042215 | 17043500 | -1 |
| AT3G46520 | ACT12 | Actin-12 [Source:UniProtKB/Swiss-Prot;Acc:P53497] | 3 | 17128211 | 17131466 | 1 |
| AT3G46750 |  |  | 3 | 17219741 | 17221772 | 1 |
| AT3G47050 |  |  | 3 | 17327935 | 17330889 | -1 |
| AT3G47130 |  |  | 3 | 17353714 | 17355086 | 1 |
| AT3G47440 | TIP5-1 | Probable aquaporin TIP5-1 [Source:UniProtKB/Swiss-Prot;Acc:Q9STX9] | 3 | 17481996 | 17483158 | 1 |
| AT3G47660 |  |  | 3 | 17570696 | 17574805 | 1 |
| AT3G48010 | CNGC16 | Probable cyclic nucleotide-gated ion channel 16 [Source:UniProtKB/Swiss-Prot;Acc:Q9SU64] | 3 | 17721137 | 17724140 | -1 |
| AT3G48360 | BT2 | BTB/POZ and TAZ domain-containing protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q94BN0] | 3 | 17907767 | 17910738 | -1 |
| AT3G48830 |  |  | 3 | 18103141 | 18106460 | 1 |
| AT3G49450 |  |  | 3 | 18337305 | 18338542 | -1 |
| AT3G50310 |  |  | 3 | 18648075 | 18649521 | -1 |
| AT3G51070 |  | Probable methyltransferase PMT27 [Source:UniProtKB/Swiss-Prot;Acc:Q9SD39] | 3 | 18969068 | 18972554 | 1 |
| AT3G51770 |  |  | 3 | 19199750 | 19204464 | -1 |
| AT3G52000 | SCPL36 | Serine carboxypeptidase-like 36 [Source:UniProtKB/Swiss-Prot;Acc:Q9SV04] | 3 | 19293010 | 19294881 | 1 |
| AT3G52080 | CHX28 | Cation/H(+) antiporter 28 [Source:UniProtKB/Swiss-Prot;Acc:Q8L709] | 3 | 19314966 | 19317988 | 1 |
| AT3G52270 |  |  | 3 | 19386983 | 19388944 | -1 |
| AT3G52600 | CWINV2 | Beta-fructofuranosidase, insoluble isoenzyme CWINV2 [Source:UniProtKB/Swiss-Prot;Acc:Q1PEF8] | 3 | 19506891 | 19509412 | -1 |
| AT3G52620 |  |  | 3 | 19513044 | 19513822 | 1 |
| AT3G53590 |  |  | 3 | 19866880 | 19872749 | -1 |
| AT3G54240 |  |  | 3 | 20080856 | 20082360 | 1 |
| AT3G55180 |  |  | 3 | 20454746 | 20456843 | 1 |
| AT3G55190 |  |  | 3 | 20457919 | 20460137 | 1 |
| AT3G56600 | PI4KG8 | Phosphatidylinositol 4-kinase gamma 8 [Source:UniProtKB/Swiss-Prot;Acc:Q0WMZ6] | 3 | 20968444 | 20971021 | 1 |
| AT3G57370 |  |  | 3 | 21226733 | 21228475 | -1 |
| AT3G57840 |  |  | 3 | 21422823 | 21423287 | 1 |
| AT3G58160 | XI-J | Myosin-16 [Source:UniProtKB/Swiss-Prot;Acc:Q9M2K0] | 3 | 21534064 | 21542127 | 1 |
| AT3G58350 | RTM3 | Protein RESTRICTED TEV MOVEMENT 3 [Source:UniProtKB/Swiss-Prot;Acc:D5K228] | 3 | 21591409 | 21592962 | -1 |
| AT3G59070 |  | Cytochrome b561 and DOMON domain-containing protein At3g59070 [Source:UniProtKB/Swiss-Prot;Acc:Q9LYS9] | 3 | 21832364 | 21834514 | -1 |
| AT3G59270 |  |  | 3 | 21906545 | 21907872 | -1 |
| AT3G59290 | EPSIN3 | Clathrin interactor EPSIN 3 [Source:UniProtKB/Swiss-Prot;Acc:Q93YP4] | 3 | 21911501 | 21917860 | 1 |
| AT3G59460 |  |  | 3 | 21977513 | 21978398 | 1 |
| AT3G59830 |  |  | 3 | 22102647 | 22105441 | -1 |
| AT3G60020 | ASK5 | SKP1-like protein 5 [Source:UniProtKB/Swiss-Prot;Acc:Q9M1X4] | 3 | 22164630 | 22165376 | -1 |
| AT3G60330 | AHA7 | ATPase 7, plasma membrane-type [Source:UniProtKB/Swiss-Prot;Acc:Q9LY32] | 3 | 22298373 | 22303718 | 1 |
| AT3G60580 | ZAT9 | Zinc finger protein ZAT9 [Source:UniProtKB/Swiss-Prot;Acc:Q9M202] | 3 | 22393823 | 22395244 | 1 |
| AT3G60780 |  |  | 3 | 22462613 | 22463833 | 1 |
| AT3G61450 | SYP73 | Syntaxin-73 [Source:UniProtKB/Swiss-Prot;Acc:Q94KK5] | 3 | 22738353 | 22740112 | 1 |
| AT3G61760 | DRP1B | Dynamin-related protein 1B [Source:UniProtKB/Swiss-Prot;Acc:Q84XF3] | 3 | 22860298 | 22864229 | -1 |
| AT3G62180 |  |  | 3 | 23019584 | 23020598 | -1 |
| AT3G62640 |  |  | 3 | 23166219 | 23166979 | -1 |
| AT4G00232 |  | Probable transcription factor At4g00232 [Source:UniProtKB/Swiss-Prot;Acc:Q3EAE7] | 4 | 100257 | 100844 | -1 |
| AT4G00350 | DTX34 | Protein DETOXIFICATION 34 [Source:UniProtKB/Swiss-Prot;Acc:F4JH46] | 4 | 151849 | 154178 | 1 |
| AT4G01470 | TIP1-3 | Aquaporin TIP1-3 [Source:UniProtKB/Swiss-Prot;Acc:O82598] | 4 | 624786 | 625885 | -1 |
| AT4G01640 |  |  | 4 | 702563 | 703600 | 1 |
| AT4G01760 |  |  | 4 | 759055 | 761224 | -1 |
| AT4G02140 |  |  | 4 | 948598 | 951063 | -1 |
| AT4G02550 |  |  | 4 | 1120365 | 1122223 | -1 |
| AT4G02650 |  | Putative clathrin assembly protein At4g02650 [Source:UniProtKB/Swiss-Prot;Acc:Q8GX47] | 4 | 1156379 | 1158788 | 1 |
| AT4G02660 | BCHA2 | BEACH domain-containing protein A2 [Source:UniProtKB/Swiss-Prot;Acc:F4JHT3] | 4 | 1159494 | 1174321 | -1 |
| AT4G03160 |  | Putative B3 domain-containing protein At4g03160 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZR15] | 4 | 1397979 | 1398685 | 1 |
| AT4G03290 | CML6 | Calmodulin-like protein 6 [Source:UniProtKB/Swiss-Prot;Acc:Q9ZR02] | 4 | 1442546 | 1443638 | 1 |
| AT4G03620 |  |  | 4 | 1606702 | 1608665 | -1 |
| AT4G03830 |  |  | 4 | 1790440 | 1792458 | 1 |
| AT4G04080 | ISU3 | Iron-sulfur cluster assembly protein 3 [Source:UniProtKB/Swiss-Prot;Acc:O81433] | 4 | 1963291 | 1964471 | 1 |
| AT4G04980 |  | Uncharacterized protein At4g04980 [Source:UniProtKB/Swiss-Prot;Acc:Q1PEB4] | 4 | 2543692 | 2548130 | -1 |
| AT4G08670 |  |  | 4 | 5536545 | 5538310 | -1 |
| AT4G09100 | ATL39 | RING-H2 finger protein ATL39 [Source:UniProtKB/Swiss-Prot;Acc:Q9M0R7] | 4 | 5811115 | 5811846 | 1 |
| AT4G09860 |  |  | 4 | 6194709 | 6195301 | -1 |
| AT4G10010 |  |  | 4 | 6263509 | 6266938 | -1 |
| AT4G10250 | HSP22.0 | 22.0 kDa heat shock protein [Source:UniProtKB/Swiss-Prot;Acc:Q38806] | 4 | 6370338 | 6371372 | 1 |
| AT4G10440 |  | Probable methyltransferase PMT17 [Source:UniProtKB/Swiss-Prot;Acc:Q9SZX8] | 4 | 6459539 | 6462092 | -1 |
| AT4G11030 | LACS5 | Long chain acyl-CoA synthetase 5 [Source:UniProtKB/Swiss-Prot;Acc:Q9T009] | 4 | 6738068 | 6742424 | 1 |
| AT4G11700 |  | UPF0725 protein At4g11700 [Source:UniProtKB/Swiss-Prot;Acc:Q9T0D7] | 4 | 7058086 | 7058637 | -1 |
| AT4G11720 | HAP2 | Protein HAPLESS 2 [Source:UniProtKB/Swiss-Prot;Acc:F4JP36] | 4 | 7063255 | 7066878 | 1 |
| AT4G11760 | LCR17 | Defensin-like protein 151 [Source:UniProtKB/Swiss-Prot;Acc:Q9T0E3] | 4 | 7079183 | 7080445 | 1 |
| AT4G12860 | CML2 | Calmodulin-like protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9SU00] | 4 | 7538444 | 7538902 | -1 |
| AT4G12930 |  |  | 4 | 7573107 | 7573746 | -1 |
| AT4G13190 |  |  | 4 | 7659303 | 7662283 | -1 |
| AT4G13230 |  | Uncharacterized protein At4g13230 [Source:UniProtKB/Swiss-Prot;Acc:Q8LFD5] | 4 | 7675653 | 7676808 | -1 |
| AT4G13240 | ROPGEF9 | Rop guanine nucleotide exchange factor 9 [Source:UniProtKB/Swiss-Prot;Acc:Q9SVQ3] | 4 | 7679950 | 7682622 | 1 |
| AT4G14370 |  |  | 4 | 8279634 | 8283535 | -1 |
| AT4G14530 |  |  | 4 | 8343239 | 8344199 | -1 |
| AT4G14810 |  |  | 4 | 8504145 | 8504509 | 1 |
| AT4G15120 |  |  | 4 | 8634508 | 8635591 | 1 |
| AT4G15200 |  |  | 4 | 8662824 | 8666050 | -1 |
| AT4G15650 |  |  | 4 | 8922389 | 8923941 | 1 |
| AT4G16040 |  |  | 4 | 9086930 | 9087469 | -1 |
| AT4G18350 | NCED2 | 9-cis-epoxycarotenoid dioxygenase NCED2, chloroplastic [Source:UniProtKB/Swiss-Prot;Acc:O49505] | 4 | 10142255 | 10144646 | 1 |
| AT4G18790 | NRAMP5 | Metal transporter Nramp5 [Source:UniProtKB/Swiss-Prot;Acc:Q9SN36] | 4 | 10317416 | 10319736 | -1 |
| AT4G18990 | XTH29 | Probable xyloglucan endotransglucosylase/hydrolase protein 29 [Source:UniProtKB/Swiss-Prot;Acc:Q8L7H3] | 4 | 10401777 | 10404393 | -1 |
| AT4G19570 |  |  | 4 | 10665294 | 10667318 | 1 |
| AT4G20080 |  |  | 4 | 10865295 | 10867619 | 1 |
| AT4G20160 |  |  | 4 | 10890634 | 10895252 | 1 |
| AT4G20370 | TSF | Protein TWIN SISTER of FT [Source:UniProtKB/Swiss-Prot;Acc:Q9S7R5] | 4 | 11000771 | 11003010 | -1 |
| AT4G20530 |  |  | 4 | 11048434 | 11049769 | 1 |
| AT4G20990 | ACA4 | Alpha carbonic anhydrase 4 [Source:UniProtKB/Swiss-Prot;Acc:F4JIK2] | 4 | 11219772 | 11221148 | 1 |
| AT4G21323 |  |  | 4 | 11341963 | 11345718 | 1 |
| AT4G21720 |  |  | 4 | 11542430 | 11544657 | 1 |
| AT4G22440 |  |  | 4 | 11831024 | 11832268 | 1 |
| AT4G22940 |  |  | 4 | 12021344 | 12023563 | -1 |
| AT4G23960 |  | Probable F-box protein At4g23960 [Source:UniProtKB/Swiss-Prot;Acc:Q9T0B0] | 4 | 12444765 | 12445904 | 1 |
| AT4G24170 | KIN7I | Kinesin-like protein KIN-7I [Source:UniProtKB/Swiss-Prot;Acc:F4JQ51] | 4 | 12542691 | 12546894 | 1 |
| AT4G24580 | REN1 | Rho GTPase-activating protein REN1 [Source:UniProtKB/Swiss-Prot;Acc:F4JQZ3] | 4 | 12687879 | 12694656 | -1 |
| AT4G24640 |  |  | 4 | 12717788 | 12719287 | 1 |
| AT4G24980 |  |  | 4 | 12846797 | 12848376 | -1 |
| AT4G25040 |  | CASP-like protein 1F1 [Source:UniProtKB/Swiss-Prot;Acc:Q9M0L3] | 4 | 12868169 | 12869495 | 1 |
| AT4G25590 | ADF7 | Actin-depolymerizing factor 7 [Source:UniProtKB/Swiss-Prot;Acc:Q67ZM4] | 4 | 13058936 | 13060250 | -1 |
| AT4G26330 |  |  | 4 | 13320408 | 13323673 | 1 |
| AT4G26440 | WRKY34 | Probable WRKY transcription factor 34 [Source:UniProtKB/Swiss-Prot;Acc:O65590] | 4 | 13357596 | 13359551 | -1 |
| AT4G26730 |  |  | 4 | 13472579 | 13473309 | 1 |
| AT4G26930 |  |  | 4 | 13527578 | 13529429 | 1 |
| AT4G27110 | COBL11 | COBRA-like protein 11 [Source:UniProtKB/Swiss-Prot;Acc:Q9T045] | 4 | 13599044 | 13601586 | -1 |
| AT4G27580 |  |  | 4 | 13765659 | 13766597 | -1 |
| AT4G27790 |  |  | 4 | 13849949 | 13851973 | 1 |
| AT4G28000 |  |  | 4 | 13925338 | 13929527 | 1 |
| AT4G28670 | CRK43 | Putative cysteine-rich receptor-like protein kinase 43 [Source:UniProtKB/Swiss-Prot;Acc:Q9M0G5] | 4 | 14151387 | 14153935 | 1 |
| AT4G29450 |  |  | 4 | 14478749 | 14482626 | -1 |
| AT4G30770 |  |  | 4 | 14985559 | 14986876 | -1 |
| AT4G30940 |  | BTB/POZ domain-containing protein At4g30940 [Source:UniProtKB/Swiss-Prot;Acc:O65555] | 4 | 15054873 | 15056945 | 1 |
| AT4G31520 |  |  | 4 | 15278092 | 15282014 | -1 |
| AT4G33230 | PME45 | Putative pectinesterase/pectinesterase inhibitor 45 [Source:UniProtKB/Swiss-Prot;Acc:Q9SMY6] | 4 | 16026315 | 16028879 | -1 |
| AT4G33390 | WEL1 | Protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT-like 1 [Source:UniProtKB/Swiss-Prot;Acc:Q9SZB6] | 4 | 16075091 | 16077876 | 1 |
| AT4G33800 |  |  | 4 | 16209988 | 16211426 | -1 |
| AT4G35670 |  |  | 4 | 16914599 | 16917367 | 1 |
| AT4G35700 |  |  | 4 | 16923319 | 16924334 | 1 |
| AT4G36490 | SFH12 | Phosphatidylinositol/phosphatidylcholine transfer protein SFH12 [Source:UniProtKB/Swiss-Prot;Acc:Q94A34] | 4 | 17221885 | 17225088 | 1 |
| AT4G36600 |  |  | 4 | 17263564 | 17265172 | 1 |
| AT4G37840 |  | Probable hexokinase-like 2 protein [Source:UniProtKB/Swiss-Prot;Acc:Q9T071] | 4 | 17790080 | 17792198 | -1 |
| AT4G38190 | CSLD4 | Cellulose synthase-like protein D4 [Source:UniProtKB/Swiss-Prot;Acc:Q9SZL9] | 4 | 17909832 | 17913790 | -1 |
| AT4G38390 |  |  | 4 | 17975776 | 17978380 | 1 |
| AT4G39110 |  | Probable receptor-like protein kinase At4g39110 [Source:UniProtKB/Swiss-Prot;Acc:Q9T020] | 4 | 18221993 | 18225238 | -1 |
| AT4G39590 |  | F-box/kelch-repeat protein At4g39590 [Source:UniProtKB/Swiss-Prot;Acc:Q1PE10] | 4 | 18387331 | 18388759 | -1 |
| AT4G39610 |  |  | 4 | 18393547 | 18394816 | -1 |
| AT4G39756 |  | Putative F-box/kelch-repeat protein At4g39756 [Source:UniProtKB/Swiss-Prot;Acc:P0C2F9] | 4 | 18441756 | 18443000 | 1 |
| AT5G01280 |  |  | 5 | 113921 | 116411 | -1 |
| AT5G01490 |  |  | 5 | 195452 | 198651 | 1 |
| AT5G01690 | CHX27 | Cation/H(+) antiporter 27 [Source:UniProtKB/Swiss-Prot;Acc:Q9M007] | 5 | 257306 | 260490 | 1 |
| AT5G02390 |  |  | 5 | 508577 | 512270 | -1 |
| AT5G02720 |  |  | 5 | 613482 | 615091 | -1 |
| AT5G02730 |  |  | 5 | 615550 | 616227 | 1 |
| AT5G03600 |  | GDSL esterase/lipase At5g03600 [Source:UniProtKB/Swiss-Prot;Acc:Q9LZS8] | 5 | 912476 | 914553 | 1 |
| AT5G04390 |  |  | 5 | 1238820 | 1240517 | 1 |
| AT5G05070 | PAT03 | Probable protein S-acyltransferase 3 [Source:UniProtKB/Swiss-Prot;Acc:Q5PNZ1] | 5 | 1496709 | 1498544 | 1 |
| AT5G05850 | PIRL1 | Plant intracellular Ras-group-related LRR protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q9FFJ3] | 5 | 1762405 | 1764774 | -1 |
| AT5G06650 | GIS2 | Zinc finger protein GIS2 [Source:UniProtKB/Swiss-Prot;Acc:Q9FG05] | 5 | 2043419 | 2044200 | 1 |
| AT5G07330 |  |  | 5 | 2315947 | 2316874 | 1 |
| AT5G07420 | PME49 | Probable pectinesterase 49 [Source:UniProtKB/Swiss-Prot;Acc:Q9LY18] | 5 | 2349452 | 2351613 | 1 |
| AT5G07430 | PME50 | Probable pectinesterase 50 [Source:UniProtKB/Swiss-Prot;Acc:Q9LY17] | 5 | 2352436 | 2354338 | 1 |
| AT5G09430 |  |  | 5 | 2931963 | 2933423 | 1 |
| AT5G10090 |  |  | 5 | 3153494 | 3156249 | -1 |
| AT5G10500 | NET2C | Protein NETWORKED 2C [Source:UniProtKB/Swiss-Prot;Acc:Q8LPQ1] | 5 | 3305287 | 3308109 | 1 |
| AT5G11080 |  |  | 5 | 3517223 | 3520003 | -1 |
| AT5G12000 |  |  | 5 | 3873799 | 3877004 | -1 |
| AT5G12180 | CPK17 | Calcium-dependent protein kinase 17 [Source:UniProtKB/Swiss-Prot;Acc:Q9FMP5] | 5 | 3936813 | 3939596 | 1 |
| AT5G12280 |  |  | 5 | 3971715 | 3973800 | -1 |
| AT5G13150 |  |  | 5 | 4172734 | 4175362 | -1 |
| AT5G13990 |  |  | 5 | 4514568 | 4516892 | -1 |
| AT5G14670 |  |  | 5 | 4728947 | 4730952 | 1 |
| AT5G14890 |  |  | 5 | 4817997 | 4820601 | 1 |
| AT5G14900 |  |  | 5 | 4822676 | 4823581 | -1 |
| AT5G15110 |  |  | 5 | 4895750 | 4897966 | 1 |
| AT5G15140 |  |  | 5 | 4908651 | 4910920 | 1 |
| AT5G15560 |  |  | 5 | 5064051 | 5064889 | 1 |
| AT5G16500 | LIP1 | Receptor-like kinase LIP1 [Source:UniProtKB/Swiss-Prot;Acc:Q1PDW3] | 5 | 5386524 | 5389311 | -1 |
| AT5G16690 | ORC3 | Origin of replication complex subunit 3 [Source:UniProtKB/Swiss-Prot;Acc:Q6E7H0] | 5 | 5474366 | 5480067 | 1 |
| AT5G17480 | CML29 | Probable calcium-binding protein CML29 [Source:UniProtKB/Swiss-Prot;Acc:Q9LF54] | 5 | 5762600 | 5763202 | 1 |
| AT5G18510 |  |  | 5 | 6141650 | 6143886 | -1 |
| AT5G18540 |  |  | 5 | 6153785 | 6156309 | 1 |
| AT5G18910 |  |  | 5 | 6306599 | 6309578 | -1 |
| AT5G19360 | CPK34 | Calcium-dependent protein kinase 34 [Source:UniProtKB/Swiss-Prot;Acc:Q3E9C0] | 5 | 6521405 | 6523954 | -1 |
| AT5G19610 | GNL2 | ARF guanine-nucleotide exchange factor GNL2 [Source:UniProtKB/Swiss-Prot;Acc:F4K2K3] | 5 | 6617665 | 6622104 | -1 |
| AT5G20330 | BG4 | Probable glucan endo-1,3-beta-glucosidase BG4 [Source:UniProtKB/Swiss-Prot;Acc:O49352] | 5 | 6871511 | 6873112 | 1 |
| AT5G20340 | BG5 | Probable glucan endo-1,3-beta-glucosidase BG5 [Source:UniProtKB/Swiss-Prot;Acc:O49353] | 5 | 6874787 | 6875926 | 1 |
| AT5G20370 |  |  | 5 | 6886762 | 6887458 | -1 |
| AT5G20390 |  |  | 5 | 6892700 | 6894197 | -1 |
| AT5G20460 |  |  | 5 | 6914303 | 6914855 | 1 |
| AT5G21120 | EIL2 | ETHYLENE INSENSITIVE 3-like 2 protein [Source:UniProtKB/Swiss-Prot;Acc:O23115] | 5 | 7181926 | 7184365 | 1 |
| AT5G22420 | FAR7 | Putative fatty acyl-CoA reductase 7 [Source:UniProtKB/Swiss-Prot;Acc:Q9FMQ9] | 5 | 7429769 | 7432825 | 1 |
| AT5G22600 |  |  | 5 | 7509843 | 7511788 | 1 |
| AT5G23030 | TET12 | Tetraspanin-12 [Source:UniProtKB/Swiss-Prot;Acc:Q9FN51] | 5 | 7726702 | 7728369 | 1 |
| AT5G23380 |  |  | 5 | 7866742 | 7870384 | 1 |
| AT5G23770 |  |  | 5 | 8014320 | 8016913 | -1 |
| AT5G24880 |  |  | 5 | 8552647 | 8554275 | 1 |
| AT5G24940 |  | Probable protein phosphatase 2C 71 [Source:UniProtKB/Swiss-Prot;Acc:Q4PSE8] | 5 | 8591143 | 8593601 | -1 |
| AT5G25340 |  |  | 5 | 8793018 | 8794784 | 1 |
| AT5G25400 |  | Probable sugar phosphate/phosphate translocator At5g25400 [Source:UniProtKB/Swiss-Prot;Acc:Q3E6T0] | 5 | 8823176 | 8824639 | 1 |
| AT5G25430 | BOR6 | Probable boron transporter 6 [Source:UniProtKB/Swiss-Prot;Acc:Q3E954] | 5 | 8851047 | 8854491 | 1 |
| AT5G25530 |  |  | 5 | 8889271 | 8891128 | -1 |
| AT5G26060 |  |  | 5 | 9104730 | 9105525 | -1 |
| AT5G26100 |  |  | 5 | 9117290 | 9117817 | -1 |
| AT5G26150 |  |  | 5 | 9137461 | 9140257 | -1 |
| AT5G27510 |  |  | 5 | 9713173 | 9714078 | 1 |
| AT5G27610 | ALY1 | Protein ALWAYS EARLY 1 [Source:UniProtKB/Swiss-Prot;Acc:Q6A331] | 5 | 9764135 | 9769992 | 1 |
| AT5G27870 | PME28 | Putative pectinesterase/pectinesterase inhibitor 28 [Source:UniProtKB/Swiss-Prot;Acc:Q3E8Z8] | 5 | 9878689 | 9881848 | -1 |
| AT5G27980 |  | Late embryogenesis abundant protein 47 [Source:UniProtKB/Swiss-Prot;Acc:Q8GWT7] | 5 | 10015774 | 10016879 | -1 |
| AT5G28380 |  |  | 5 | 10338539 | 10341007 | -1 |
| AT5G28470 | NPF2.8 | Protein NRT1/ PTR FAMILY 2.8 [Source:UniProtKB/Swiss-Prot;Acc:Q3E8X3] | 5 | 10428733 | 10432407 | 1 |
| AT5G28680 | ANX2 | Receptor-like protein kinase ANXUR2 [Source:UniProtKB/Swiss-Prot;Acc:Q3E8W4] | 5 | 10719127 | 10722361 | -1 |
| AT5G35090 |  |  | 5 | 13358370 | 13359336 | 1 |
| AT5G35380 |  |  | 5 | 13593322 | 13596293 | -1 |
| AT5G35390 | PRK1 | Pollen receptor-like kinase 1 [Source:UniProtKB/Swiss-Prot;Acc:C0LGU0] | 5 | 13596824 | 13599269 | 1 |
| AT5G35430 |  |  | 5 | 13661923 | 13666070 | 1 |
| AT5G37060 | CHX24 | Cation/H(+) antiporter 24 [Source:UniProtKB/Swiss-Prot;Acc:Q1HDT2] | 5 | 14642622 | 14645612 | -1 |
| AT5G37810 | NIP4-1 | Putative aquaporin NIP4-1 [Source:UniProtKB/Swiss-Prot;Acc:Q9FIZ9] | 5 | 15045114 | 15048012 | 1 |
| AT5G38260 | LRK10L-2.1 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like 2.1 [Source:UniProtKB/Swiss-Prot;Acc:Q9FF31] | 5 | 15283692 | 15285837 | -1 |
| AT5G38390 |  | Putative F-box protein At5g38390 [Source:UniProtKB/Swiss-Prot;Acc:Q9FF23] | 5 | 15366011 | 15368053 | 1 |
| AT5G38500 |  | B3 domain-containing protein At5g38500 [Source:UniProtKB/Swiss-Prot;Acc:Q9FFX1] | 5 | 15416018 | 15417253 | -1 |
| AT5G38760 |  |  | 5 | 15524173 | 15525045 | 1 |
| AT5G39310 | EXPA24 | Expansin-A24 [Source:UniProtKB/Swiss-Prot;Acc:Q9FL76] | 5 | 15739032 | 15740605 | -1 |
| AT5G39400 | PTEN1 | Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN1 [Source:UniProtKB/Swiss-Prot;Acc:Q9FLZ5] | 5 | 15766037 | 15768354 | 1 |
| AT5G39650 |  |  | 5 | 15875125 | 15876116 | 1 |
| AT5G39870 |  |  | 5 | 15968589 | 15970046 | -1 |
| AT5G39880 |  |  | 5 | 15970887 | 15972344 | 1 |
| AT5G40645 |  |  | 5 | 16280283 | 16280993 | -1 |
| AT5G41310 |  |  | 5 | 16516470 | 16522392 | -1 |
| AT5G41780 |  |  | 5 | 16722239 | 16725040 | 1 |
| AT5G42260 | BGLU12 | Beta-glucosidase 12 [Source:UniProtKB/Swiss-Prot;Acc:Q9FH03] | 5 | 16898712 | 16900317 | 1 |
| AT5G42330 |  |  | 5 | 16926608 | 16927580 | 1 |
| AT5G42340 | PUB15 | U-box domain-containing protein 15 [Source:UniProtKB/Swiss-Prot;Acc:Q681N2] | 5 | 16927893 | 16930532 | -1 |
| AT5G42490 |  |  | 5 | 16988280 | 16992754 | -1 |
| AT5G43030 |  |  | 5 | 17258927 | 17260784 | -1 |
| AT5G43530 |  | Putative SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 3-like 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9FIY7] | 5 | 17489271 | 17495024 | 1 |
| AT5G44270 |  |  | 5 | 17833636 | 17835817 | 1 |
| AT5G44300 | DRMH2 | Dormancy-associated protein homolog 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9FKV8] | 5 | 17845127 | 17846197 | -1 |
| AT5G45810 | CIPK19 | CBL-interacting serine/threonine-protein kinase 19 [Source:UniProtKB/Swiss-Prot;Acc:Q9FJ55] | 5 | 18584676 | 18586590 | 1 |
| AT5G46200 |  |  | 5 | 18727802 | 18730331 | -1 |
| AT5G46295 |  |  | 5 | 18779790 | 18780205 | -1 |
| AT5G46370 | TPK2 | Two-pore potassium channel 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9FL25] | 5 | 18809496 | 18811870 | -1 |
| AT5G46770 |  |  | 5 | 18977399 | 18978246 | 1 |
| AT5G47440 |  |  | 5 | 19243531 | 19245648 | -1 |
| AT5G47470 |  | WAT1-related protein At5g47470 [Source:UniProtKB/Swiss-Prot;Acc:Q9FGL0] | 5 | 19254403 | 19256810 | 1 |
| AT5G47900 |  |  | 5 | 19392166 | 19395287 | 1 |
| AT5G48270 |  |  | 5 | 19564422 | 19565968 | -1 |
| AT5G48780 |  |  | 5 | 19777453 | 19779815 | 1 |
| AT5G49420 |  |  | 5 | 20034672 | 20036205 | -1 |
| AT5G50830 |  |  | 5 | 20683262 | 20684890 | 1 |
| AT5G51030 |  |  | 5 | 20747680 | 20749506 | -1 |
| AT5G51290 | CERK | Ceramide kinase [Source:UniProtKB/Swiss-Prot;Acc:Q6USK2] | 5 | 20843923 | 20848376 | -1 |
| AT5G51360 |  |  | 5 | 20871918 | 20872277 | 1 |
| AT5G52360 | ADF12 | Actin-depolymerizing factor 12 [Source:UniProtKB/Swiss-Prot;Acc:Q8LFH6] | 5 | 21257934 | 21259408 | -1 |
| AT5G53520 | OPT8 | Oligopeptide transporter 8 [Source:UniProtKB/Swiss-Prot;Acc:Q9FJD1] | 5 | 21743366 | 21746061 | 1 |
| AT5G53820 |  |  | 5 | 21853348 | 21854117 | 1 |
| AT5G54010 | UGT79B6 | UDP-glycosyltransferase 79B6 [Source:UniProtKB/Swiss-Prot;Acc:Q9FN26] | 5 | 21919593 | 21921225 | -1 |
| AT5G54095 |  |  | 5 | 21952647 | 21953507 | -1 |
| AT5G54150 |  |  | 5 | 21977461 | 21978237 | -1 |
| AT5G55020 |  |  | 5 | 22324599 | 22326418 | -1 |
| AT5G55490 | GEX1 | Protein GAMETE EXPRESSED 1 [Source:UniProtKB/Swiss-Prot;Acc:Q681K7] | 5 | 22478712 | 22481937 | -1 |
| AT5G55980 |  |  | 5 | 22670186 | 22670893 | 1 |
| AT5G56310 | PCMP-E13 | Pentatricopeptide repeat-containing protein At5g56310 [Source:UniProtKB/Swiss-Prot;Acc:Q9FMA1] | 5 | 22802299 | 22804377 | 1 |
| AT5G57200 |  | Putative clathrin assembly protein At5g57200 [Source:UniProtKB/Swiss-Prot;Acc:Q9LVD8] | 5 | 23177525 | 23180853 | 1 |
| AT5G57240 | ORP4C | Oxysterol-binding protein-related protein 4C [Source:UniProtKB/Swiss-Prot;Acc:Q9LVD4] | 5 | 23192872 | 23195476 | 1 |
| AT5G57320 | VLN5 | Villin-5 [Source:UniProtKB/Swiss-Prot;Acc:Q9LVC6] | 5 | 23211952 | 23218041 | 1 |
| AT5G57690 | DGK4 | Diacylglycerol kinase 4 [Source:UniProtKB/Swiss-Prot;Acc:Q1PDI2] | 5 | 23371675 | 23374676 | -1 |
| AT5G58050 | GDPDL6 | Glycerophosphodiester phosphodiesterase GDPDL6 [Source:UniProtKB/Swiss-Prot;Acc:Q9FGT9] | 5 | 23494249 | 23497601 | -1 |
| AT5G58160 | FH13 | Formin-like protein 13 [Source:UniProtKB/Swiss-Prot;Acc:Q9LVN1] | 5 | 23533375 | 23539741 | 1 |
| AT5G58460 | CHX25 | Cation/H(+) antiporter 25 [Source:UniProtKB/Swiss-Prot;Acc:Q9FGH6] | 5 | 23632228 | 23635037 | -1 |
| AT5G60070 |  |  | 5 | 24190264 | 24192894 | -1 |
| AT5G60260 |  |  | 5 | 24255272 | 24256285 | -1 |
| AT5G60740 | ABCG28 | ABC transporter G family member 28 [Source:UniProtKB/Swiss-Prot;Acc:Q9FF46] | 5 | 24425455 | 24430413 | -1 |
| AT5G61620 |  |  | 5 | 24772326 | 24773507 | 1 |
| AT5G61710 |  |  | 5 | 24799836 | 24800783 | 1 |
| AT5G61720 |  |  | 5 | 24801505 | 24803395 | 1 |
| AT5G62080 |  |  | 5 | 24933471 | 24934484 | -1 |
| AT5G62250 | MAP65-9 | 65-kDa microtubule-associated protein 9 [Source:UniProtKB/Swiss-Prot;Acc:Q4PSA3] | 5 | 25005434 | 25008361 | 1 |
| AT5G62400 |  |  | 5 | 25054614 | 25055664 | -1 |
| AT5G62520 | SRO5 | Probable inactive poly [ADP-ribose] polymerase SRO5 [Source:UniProtKB/Swiss-Prot;Acc:Q9FJJ3] | 5 | 25097944 | 25099907 | 1 |
| AT5G63200 |  |  | 5 | 25348903 | 25353039 | 1 |
| AT5G63720 |  |  | 5 | 25506279 | 25508017 | 1 |
| AT5G64690 |  |  | 5 | 25862715 | 25864792 | 1 |
| AT5G64790 |  |  | 5 | 25902533 | 25904804 | 1 |
| AT5G66020 | SAC6 | Phosphoinositide phosphatase SAC6 [Source:UniProtKB/Swiss-Prot;Acc:Q7X911] | 5 | 26401193 | 26404725 | -1 |
| AT5G66230 |  |  | 5 | 26461152 | 26464171 | 1 |
| AT5G66260 |  |  | 5 | 26471224 | 26471786 | 1 |
| AT5G66300 | NAC105 | NAC domain-containing protein 105 [Source:UniProtKB/Swiss-Prot;Acc:Q9FH59] | 5 | 26479766 | 26481528 | -1 |
| AT5G66890 |  | Probable disease resistance protein At5g66890 [Source:UniProtKB/Swiss-Prot;Acc:Q9FKZ2] | 5 | 26712944 | 26714472 | -1 |

This table contains 625 genes. The total number of pollen-specific non-HRGP genes is 668. Some of the genes cannot be found in Ensembl Plants Biomart.