

ITAG gene number	Human-readable description
Solyc05g053680.1.1	Pectinesterase (AHRD V1 **** B9RW17_RICCO); contains Interpro domain(s) IPR000070 Pectinesterase, catalytic
Solyc05g053690.1.1	Ubiquitin carboxyl-terminal hydrolase (AHRD V1 **** B9GFW8_POPTR); contains Interpro domain(s) IPR001394 Peptidase C19, ubiquitin carboxyl-terminal hydrolase 2
Solyc05g053700.1.1	Xyloglucan endotransglucosylase/hydrolase 1 (AHRD V1 **** D5HRNO_FRAAN); contains Interpro domain(s) IPR016455 Xyloglucan endotransglucosylase/hydrolase
Solyc05g053710.2.1	TBC1 domain family member 13 (AHRD V1 ***-D3BTH5_POIPLA); contains Interpro domain(s) IPR000195 RabGAP/TBC
Solyc05g053720.2.1	Os12g0425600 protein (Fragment) (AHRD V1 *-Q0INN2_ORYSJ); contains Interpro domain(s) IPR004348 Protein of unknown function DUF246, plant
Solyc05g053730.2.1	Genomic DNA chromosome 5 TAC clone K21P3 (AHRD V1 *-Q9FU19_ARATH)
Solyc05g053740.2.1	Alkaline ceramidase (AHRD V1 ***-Q17KM2_AEDAE); contains Interpro domain(s) IPR008901 Alkaline phytoceramidase
Solyc05g053750.1.1	Lipase (AHRD V1 **** Q1XBG1_RICCO); contains Interpro domain(s) IPR006693 AB-hydrolase associated lipase region
Solyc05g053760.2.1	Chaperone protein dnaJ 20 (AHRD V1 ***-B6U349_MAIZE); contains Interpro domain(s) IPR001623 Heat shock protein DnaJ, N-terminal
Solyc05g053770.2.1	A15g48610-like protein (Fragment) (AHRD V1 *-Q6XWAZ_ARATH)
Solyc05g053780.2.1	RNA binding protein-like protein (AHRD V1 ***-Q3HVL3_SOLTU); contains Interpro domain(s) IPR015465 RNA recognition motif, glycine rich protein
Solyc05g053790.1.1	UDP-D-glucuronate 4-epimerase 4 (AHRD V1 **** D7LCH5_ARALY); contains Interpro domain(s) IPR016040 NAD(P)-binding domain
Solyc05g053800.2.1	DNA repair protein Rad50 (AHRD V1 ***-A8IE27_TRITU); contains Interpro domain(s) IPR004584 Recombination/repair protein Rad50
Solyc05g053810.2.1	Serine hydroxymethyltransferase (AHRD V1 **** D2D306_GOSHI); contains Interpro domain(s) IPR001085 Serine hydroxymethyltransferase
Solyc05g053820.2.1	UDP-glucosyltransferase family 1 protein (AHRD V1 **** C6KI44_CITSI); contains Interpro domain(s) IPR002213 UDP-glucuronosyl/UDP-glucosyltransferase
Solyc05g053830.2.1	Protein transport protein Sec23 (AHRD V1 ***-Q9LUG1_ARATH); contains Interpro domain(s) IPR006896 Sec23/Sec24 trunk region
Solyc05g053850.2.1	SELF PRUNING 5G
Solyc05g053860.2.1	Solute carrier family 22 member 5 (Predicted) (AHRD V1 ***-B3RF59_SORAR); contains Interpro domain(s) IPR016196 Major facilitator superfamily, general substrate transporter
Solyc05g053870.2.1	Copine I-like protein (AHRD V1 ***-Q6YYC5_ORYSJ); contains Interpro domain(s) IPR010734 Copine
Solyc05g053880.2.1	cDNA FL42396 fis clone ASTRO2001107 (AHRD V1 *-B3KW72_HUMAN)
Solyc05g053890.1.1	Glucosyltransferase-like protein (AHRD V1 *-Q9LXVO_ARATH); contains Interpro domain(s) IPR002213 UDP-glucuronosyl/UDP-glucosyltransferase
Solyc05g053900.2.1	Aspartic proteinase nepenthesin-2 (AHRD V1 *-B6TNP6_MAIZE); contains Interpro domain(s) IPR001461 Peptidase A1
Solyc05g053910.1.1	Lipase family protein (AHRD V1 ***-Q2RAM0_ORYSJ); contains Interpro domain(s) IPR002921 Lipase, class 3
Solyc05g053920.1.1	Lipase (Fragment) (AHRD V1 ***-Q9ZTW1_DIACA); contains Interpro domain(s) IPR002921 Lipase, class 3
Solyc05g053930.2.1	ATP binding / serine-threonine kinase (AHRD V1 **** C5DB71_VITVI); contains Interpro domain(s) IPR002290 Serine/threonine protein kinase
Solyc05g053940.2.1	Ras-related protein Rab-1A (AHRD V1 ***-B6RB23_HALDI); contains Interpro domain(s) IPR003579 Ras small GTPase, Rab type
Solyc05g053950.2.1	Plasmid partition Para protein (AHRD V1 ***-B8KLV3_9GAMM); contains Interpro domain(s) IPR010775 Protein of unknown function DUF1365
Solyc05g053960.2.1	Cysteine-rich extensin-like protein-2 (AHRD V1 *-Q08195_TOBAC)
Solyc05g053970.2.1	Amino acid transporter (AHRD V1 **** B9HY05_POPTR); contains Interpro domain(s) IPR013057 Amino acid transporter, transmembrane
Solyc05g053980.1.1	NBS-LRR resistance protein-like protein (AHRD V1 ***-A1Y9Q9_SOLLG)
Solyc05g053990.2.1	Cc-nbs-lrr, resistance protein
Solyc05g054000.2.1	Late blight resistance protein Rpi-blb2 (AHRD V1 ***-Q38QB6_SOLBU)
Solyc05g054010.2.1	Cc-nbs-lrr, resistance protein
Solyc05g054020.1.1	Cc-nbs-lrr, resistance protein
Solyc05g054030.2.1	C2H2 domain class transcription factor (AHRD V1 *-D9ZIU3_MALDO); contains Interpro domain(s) IPR007087 Zinc finger, C2H2-type
Solyc05g054040.2.1	Transmembrane 9 superfamily protein member 1 (AHRD V1 **** B6TZ24_MAIZE); contains Interpro domain(s) IPR004240 Nonaspanin (TM9SF)
Solyc05g054050.2.1	Glutamate decarboxylase (AHRD V1 **** Q8LKR4_TOBAC); contains Interpro domain(s) IPR010107 Glutamate decarboxylase

Table S4. Genes in the overlapping interval of the chromosome 5 flowering QTL in ILs and BILs.