

Table S2. List of BL-repressed genes in wild-type (WT) adult plants

Microarray experiments and analyses are described in Materials and Methods. The overlaps with genes up- (blue) or down- (red) regulated in *herk1 the1* mutant are indicated.

AGI	Annotation
AT1G32190	expressed protein
AT5G59030	copper transporter 1 (COPT1)
AT3G51440	strictosidine synthase family protein
AT5G22820	expressed protein
AT4G01570	pentatricopeptide (PPR) repeat-containing protein
AT2G46830	myb-related transcription factor (CCA1)
AT5G63030	glutaredoxin
AT4G17830	peptidase M20
AT1G70550	expressed protein
AT4G01290	expressed protein
AT5G28650	WRKY family transcription factor
AT5G51840	expressed protein
AT5G03130	hypothetical protein
AT3G44490 /// AT3G44660	histone deacetylase-related
AT5G42760	O-methyltransferase N-terminus domain-containing protein
AT4G21960	peroxidase 42
AT1G28420	homeobox transcription factor
AT1G23030	armadillo/beta-catenin repeat family protein
AT5G55930	oligopeptide transporter OPT family protein
AT2G42280	basic helix-loop-helix (bHLH) family protein
AT3G26290	cytochrome P450 71B26, putative
AT5G55390	hydroxyproline-rich glycoprotein family protein
AT4G14615	expressed protein
AT1G54115	cation exchanger, putative
AT3G08590	2,3-biphosphoglycerate-independent phosphoglycerate mutase, putative
AT2G40830	zinc finger (C3HC4-type RING finger) family protein
AT5G51830	pfkB-type carbohydrate kinase family protein
AT5G23020	MAM-L mRNA, complete cds.
AT1G14530	tobamovirus multiplication protein 3, putative
AT1G70790	C2 domain-containing protein
AT2G35010	thioredoxin family protein
AT2G35620	leucine-rich repeat transmembrane protein kinase
AT3G25760 /// AT3G25770	early-responsive to dehydration stress protein (ERD12)
AT4G15120	VQ motif-containing protein
AT4G28600	calmodulin-binding protein
AT1G56330	GTP-binding protein (SAR1B)
AT1G12200	flavin-containing monooxygenase family protein
AT5G54120	expressed protein
AT1G70780	expressed protein
AT5G17050	UDP-glucuronosyl transferase family protein
AT1G17100	SOUL heme-binding family protein
AT4G31860	protein phosphatase 2C, putative
AT3G59760	cysteine synthase, mitochondrial, putative
AT2G35940	homeodomain-containing protein
AT3G51860	Arabidopsis thaliana Full-length cDNA Complete sequence
AT5G26600	expressed protein
AT5G03490	UDP-glucuronosyl transferase family protein
AT1G14820	SEC14 cytosolic factor family protein
AT3G17380	meprin and TRAF homology domain-containing protein
AT2G40280	dehydration-responsive family protein
AT3G44880	Rieske [2Fe-2S] domain-containing protein
AT3G28540	AAA-type ATPase family protein
AT1G52190	proton-dependent oligopeptide transport (POT) family protein
AT3G55560	DNA-binding protein-related

AT2G44310	calcium-binding EF hand family protein
AT5G63850	amino acid transporter 4, putative (AAP4)
AT1G69730	protein kinase family protein
AT3G51370	protein phosphatase 2C, putative
AT1G51090	heavy-metal-associated domain-containing protein
AT1G48100	glycoside hydrolase family 28 protein
AT3G24030	hydroxyethylthiazole kinase family protein
AT3G21560	UDP-glucosyltransferase, putative
AT2G40950	bZIP transcription factor family protein
AT1G79390	expressed protein
AT5G12010	expressed protein
AT4G15550	UDP-glucose:indole-3-acetate beta-D-glucosyltransferase (IAGLU)
AT1G19140	expressed protein
AT4G35600	protein kinase family protein
AT5G39950	thioredoxin H-type 2 (TRX-H-2)
AT3G45210	expressed protein
AT2G13290	glycosyl transferase family 17 protein
AT1G62380	1-aminocyclopropane-1-carboxylate oxidase, putative
AT2G43910 /// AT2G43920	thiol methyltransferase
AT4G27900	expressed protein
AT5G08370	alpha-galactosidase
AT2G29990	pyridine nucleotide-disulphide oxidoreductase family protein
AT4G38630	26S proteasome regulatory subunit S5A (RPN10)
AT3G51250	senescence/dehydration-associated protein-related
AT4G19430	expressed protein
AT3G30460	zinc finger (C3HC4-type RING finger) family protein
AT5G07580	ethylene-responsive element-binding family protein
AT2G47590	photolyase/blue light photoreceptor (PHR2)
AT3G45140	lipoxygenase (LOX2)
AT2G37760	aldo/keto reductase family protein
AT5G44720	molybdenum cofactor sulfurase family protein
AT5G02760	protein phosphatase 2C family protein
AT5G20220	zinc knuckle (CCHC-type) family protein
AT5G04230	phenylalanine ammonia-lyase 3 (PAL3)
AT4G17030	expansin-related identical
AT5G50960	nucleotide-binding family protein
AT3G01810	expressed protein
AT5G02620	ankyrin repeat family protein
AT1G21460	nodulin MtN3 family protein
AT4G36780	brassinosteroid signalling positive regulator-related
AT5G62390	calmodulin-binding family protein
AT5G64260	phosphate-responsive protein, putative
AT3G24170	glutathione reductase, putative
AT3G22750	protein kinase, putative
AT2G39770	GDP-mannose pyrophosphorylase (GMP1)
AT3G07320	glycosyl hydrolase family 17 protein
AT5G11670	malic enzyme/ oxidoreductase
AT5G65990	amino acid transporter family protein
AT4G11600	glutathione peroxidase, putative
AT1G78600	zinc finger (B-box type) family protein
AT4G38710	glycine-rich protein cylicin II
AT2G40940	ethylene response sensor
AT2G04350	long-chain-fatty-acid--CoA ligase family protein
AT3G54140	proton-dependent oligopeptide transport (POT) family protein
AT1G22370	UDP-glucosyl transferase family protein
AT2G24820	Rieske [2Fe-2S] domain-containing protein
AT2G24200	cytosol aminopeptidase
AT4G32980	homeobox protein (ATH1)
AT4G12280 /// AT4G12290	copper amine oxidase family protein
AT1G72175	zinc finger (C3HC4-type RING finger) family protein

AT5G63670

AT3G25560
AT4G14030 /// AT4G14040
AT1G02080
AT2G36960
AT1G13560
AT1G61150
AT4G13840
AT3G57110 /// AT5G60370

AT1G21410

AT3G15350

AT1G80130

AT4G34870

AT2G31670

AT2G38290

AT5G51880

AT2G46735

AT3G03600

AT4G25780

AT1G12250

AT1G26920

AT5G13800

AT5G47940

AT5G66770

AT5G01850

AT1G20770

AT1G75440

AT4G38220

AT3G04730

AT1G62030

AT5G47060

AT2G45720

AT1G79770

AT3G54420

AT4G39730

AT4G32290

AT1G09530

AT3G11690

AT3G20510

AT5G17520

AT1G33260

AT5G07240

AT4G13630

AT4G30080

AT2G15320

AT2G35320

AT4G37980

AT2G34490

AT1G05380

AT1G54350

AT3G23170

AT1G16060

AT5G44400

AT2G26690

AT3G07720

AT3G61440

AT4G26950

AT5G53420

AT5G03140

AT3G57880

Arabidopsis thaliana Full-length cDNA Complete sequence

protein kinase family protein
selenium-binding protein, putative
transcriptional regulator-related
myb family transcription factor
aminoalcoholphosphotransferase (AAPT1)
expressed protein
transferase family protein
hypothetical protein
F-box family protein
glycosyltransferase family 14 protein
expressed protein
peptidyl-prolyl cis-trans isomerase
expressed protein
ammonium transporter 2 (AMT2)
expressed protein
expressed protein
ribosomal protein S2, mitochondrial (RPS2)
pathogenesis-related protein
thylakoid lumenal protein-related
expressed protein
hydrolase, alpha
expressed protein
scarecrow transcription factor family protein
protein kinase
expressed protein
ubiquitin-conjugating enzyme 16 (UBC16) E2
aminoacylase, putative
auxin-responsive protein
DC1 domain-containing protein
senescence-associated protein-related
armadillo/beta-catenin repeat family protein
expressed protein
class IV chitinase (CHIV) ana]
lipid-associated family protein
expressed protein
phytochrome interacting factor 3 (PIF3)
expressed protein
expressed protein
root cap 1 (RCP1)
protein kinase family protein
calmodulin-binding family protein
expressed protein
transcriptional factor B3 family protein
leucine-rich repeat family protein
expressed protein
mannitol dehydrogenase
cytochrome P450 family protein
PHD finger transcription factor, putative
ABC transporter family protein
expressed protein
ovule development protein, putative
FAD-binding domain-containing protein
nitrate transporter (NTP2)
kelch repeat-containing protein
cysteine synthase, putative
expressed protein
expressed protein
lectin protein kinase family protein
C2 domain-containing protein

AT3G51430	strictosidine synthase, putative
AT1G30330	auxin-responsive factor (ARF6) 7)
AT1G59700	glutathione S-transferase, putative
AT5G04950	nicotianamine synthase, putative
AT5G42990	ubiquitin-conjugating enzyme 18 (UBC18) E2
AT1G51760 /// AT1G51780	IAA-amino acid hydrolase 3
AT5G10730	expressed protein
AT2G18730	diacylglycerol kinase, putative
AT2G23680	stress-responsive protein, putative
AT2G22860	phytosulfokines 2 (PSK2)
AT5G27600	AMP-binding protein, putative
AT5G27390	unknown protein
AT1G07420	sterol 4-alpha-methyl-oxidase 2 (SMO2)
AT3G51750	expressed protein
AT2G46450	cyclic nucleotide-regulated ion channel, putative
AT1G06000	UDP-glucosyl transferase family protein
AT1G05710	ethylene-responsive protein, putative
AT3G02300	regulator of chromosome condensation (RCC1) family protein
AT4G30450	glycine-rich protein
AT2G40435	expressed protein
AT1G55090	carbon-nitrogen hydrolase family protein
AT5G15410	cyclic nucleotide-regulated ion channel
AT1G21380	VHS domain-containing protein
AT1G17730	SNF7 family protein
AT2G39450	cation efflux family protein
AT5G44190	myb family transcription factor (GLK2)
AT5G05960	protease inhibitor
AT3G48610	phosphoesterase family protein
AT3G16150	L-asparaginase, putative
AT1G77690	amino acid permease, putative
AT5G14230	ankyrin repeat family protein
AT3G16500	auxin-responsive AUX/IAA family protein
AT1G51440	lipase class 3 family protein
AT5G66760	succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial
AT2G43500	RWP-RK domain-containing protein
AT2G35740	sugar transporter family protein
AT1G10760	starch excess protein (SEX1)
AT5G37020	auxin-responsive factor (ARF8)
AT1G56650	myb family transcription factor (MYB75)
AT3G12800	short-chain dehydrogenase
AT3G55070	expressed protein
AT2G15620	ferredoxin--nitrite reductase, putative
AT5G62070	calmodulin-binding family protein
AT4G31820	phototropic-responsive NPH3 family protein
AT5G56860	zinc finger (GATA type) family protein
AT3G14200	heat shock protein binding / unfolded protein binding
AT2G16740	ubiquitin-conjugating enzyme, putative
AT5G24530	oxidoreductase, 2OG-Fe(II) oxygenase family protein
AT3G22530	expressed protein
AT4G01810	protein transport protein-related
AT3G14230	AP2 domain-containing protein RAP2.2
AT1G63050	membrane bound O-acyl transferase (MBOAT) family protein
AT1G12330	expressed protein
AT5G06060	tropinone reductase, putative
AT5G41800	amino acid transporter family protein
AT1G64140	expressed protein
AT1G65860	flavin-containing monooxygenase family protein
AT3G21670	nitrate transporter (NTP3)
AT4G13430	aconitase family protein

AT5G18760 zinc finger (C3HC4-type RING finger) family protein
 AT2G46930 pectinacetyltransferase, putative
 AT2G16660 nodulin family protein
 AT1G75500 nodulin MtN21 family protein
 AT3G17609 bZIP transcription factor family protein
 AT5G07350 nuclease/ nucleic acid binding mRNA, complete cds.
 AT3G23560 MATE efflux family protein
 AT2G43710 acyl-[acyl-carrier-protein] desaturase
 AT5G45410 expressed protein
 AT1G71040 multi-copper oxidase type I family protein
 AT5G08750 zinc finger (C3HC4-type RING finger) family protein
 AT5G57780 expressed protein
 AT1G43710 serine decarboxylase
 AT3G08640 alphavirus core protein family
 AT1G55020 lipoxygenase (LOX1)
 AT2G47630 esterase
 AT3G63080 glutathione peroxidase, putative
 AT4G15560 1-deoxy-D-xylulose 5-phosphate synthase, putative
 AT4G32870 expressed protein
 AT5G63790 no apical meristem (NAM) family protein
 AT3G08730 serine/threonine protein kinase
 AT5G36910 thionin (THI2.2)
 AT1G52770 phototropic-responsive NPH3 family protein
 AT1G62180 5'-adenylylsulfate reductase 2, chloroplast
 AT1G64900 cytochrome P450
 AT5G66590 allergen V5/Tpx-1-related family protein
 AT4G34050 caffeoyl-CoA 3-O-methyltransferase
 AT3G05650 disease resistance family protein
 AT2G34660 glutathione S-conjugate ABC transporter (MRP2)
 AT1G74090 sulfotransferase family protein
 AT1G32690 expressed protein
 AT1G21760 F-box family protein
 AT4G16770 oxidoreductase, 2OG-Fe(II) oxygenase family protein
 AT1G53165 protein kinase, putative
 AT4G35040 bZIP transcription factor family protein
 AT5G65450 ubiquitin carboxyl-terminal hydrolase family protein
 AT1G31420 leucine-rich repeat transmembrane protein kinase
 AT2G36870 xyloglucan:xyloglucosyl transferase, putative
 AT3G02570 phosphomannose isomerase type I family protein
 AT1G78570 NAD-dependent epimerase
 AT1G77090 thylakoid lumenal 29.8 kDa protein
 AT4G34920 /// AT4G34930 1-phosphatidylinositol phosphodiesterase-related
 AT2G47510 /// AT5G50950 catalytic/ fumarate hydratase (FUM1)
 AT5G45650 subtilase family protein
 AT4G26530 fructose-bisphosphate aldolase
 AT3G44100 MD-2-related lipid recognition domain-containing protein
 AT3G13510 expressed protein
 AT3G55130 ABC transporter family protein
 AT5G62360 invertase
 AT3G58990 aconitase C-terminal domain-containing protein
 AT5G27670 histone H2A,
 AT1G62800 aspartate aminotransferase, cytoplasmic isozyme 2
 AT3G15680 zinc finger (Ran-binding) family protein
 AT2G30520 signal transducer of phototropic response (RPT2)
 AT5G63940 protein kinase family protein
 AT1G17230 leucine-rich repeat family protein
 AT2G42530 cold-responsive protein
 AT3G61820 aspartyl protease family protein
 AT3G48460 GDSL-motif lipase
 AT5G03630 monodehydroascorbate reductase

AT4G26850	expressed protein
AT3G58640	protein kinase family protein
AT2G35060	potassium transporter family protein
AT3G23580	ribonucleoside-diphosphate reductase small chain
AT5G15450	heat shock protein 100, putative
AT5G67360	cucumisin-like serine protease
AT1G75750	gibberellin-regulated protein 1 (GASA1)
AT1G64810	expressed protein
AT5G14940	proton-dependent oligopeptide transport (POT) family protein
AT1G75450	FAD-binding domain-containing protein
AT1G08250	prephenate dehydratase family protein
AT1G47970	expressed protein
AT5G62430	Dof-type zinc finger domain-containing protein
AT3G48690	expressed protein
AT1G68570	proton-dependent oligopeptide transport (POT) family protein
AT2G40540	potassium transporter
AT2G45210	auxin-responsive protein-related
AT3G18710	U-box domain-containing protein
AT2G29980	omega-3 fatty acid desaturase, endoplasmic reticulum (FAD3)
AT2G45080	cyclin family protein
AT4G01070	UDP-glucuronosyl/UDP-glucosyl transferase family protein
AT1G01520	myb family transcription factor
AT1G31180 /// AT5G14200	3-isopropylmalate dehydrogenase, chloroplast
AT1G52340	short-chain dehydrogenase
AT3G13040	myb family transcription factor
AT4G34610	homeodomain-containing protein
AT3G29200	chorismate mutase, chloroplast
AT3G27540	glycosyl transferase family 17 protein
AT5G17860	cation exchanger
AT2G16500	arginine decarboxylase 1
AT3G30180	cytochrome P450
AT2G38010	ceramidase family protein
AT3G02580	delta 7-sterol-C5-desaturase
AT3G62820	invertase
AT1G64040	serine/threonine protein phosphatase PP1 isozyme 3 (TOPP3)
AT4G17430	expressed protein
AT3G24180	expressed protein
AT3G13980	expressed protein
AT3G18280	protease inhibitor
AT1G05200	glutamate receptor family protein
AT4G37080	expressed protein
AT3G15310	expressed protein
AT1G54200	expressed protein
AT2G39210	nodulin family protein
AT1G16400 /// AT1G16410	cytochrome P450 family protein
AT5G10290	leucine-rich repeat family protein
AT1G78100	F-box family protein
AT5G09440	phosphate-responsive protein
AT4G01450	nodulin MtN21 family protein
AT5G43850	acireductone dioxygenase
AT1G22040	kelch repeat-containing F-box family protein
AT4G29520	expressed protein
AT2G47490	mitochondrial substrate carrier family protein
AT5G65720	cysteine desulfurase, mitochondrial
AT1G21250	wall-associated kinase 1 (WAK1)
AT5G49230	drought-responsive family protein
AT3G22680	expressed protein
AT4G36380	cytochrome P450 90C1
AT3G50660	steroid 22-alpha-hydroxylase
AT3G18080	hydrolase

AT2G39980	transferase family protein
AT5G41600	reticulon family protein (RTNLB4)
AT3G14560	expressed protein
AT1G62560	flavin-containing monooxygenase family protein
AT5G05610	PHD finger family protein
AT1G49780	U-box domain-containing protein
AT3G17810	dihydroorotate dehydrogenase family protein
AT1G28680	transferase family protein
AT4G32770	tocopherol cyclase, chloroplast
AT3G58040	seven in absentia (SINA) family protein
AT5G24210	lipase class 3 family protein
AT2G30490	trans-cinnamate 4-monooxygenase
AT5G08565	expressed protein
AT1G01300	aspartyl protease family protein
AT5G59130	subtilase family protein
AT2G20570	transcription factor (GPR11)
AT4G36810	geranylgeranyl pyrophosphate synthase (GGPS1)
AT3G44450	expressed protein
AT1G69760	expressed protein
AT5G57785	expressed protein
AT3G05500	rubber elongation factor (REF) family protein
AT3G13730	cytochrome P450
AT1G68550	AP2 domain-containing transcription factor
AT2G40460	proton-dependent oligopeptide transport (POT) family protein
AT4G27520	plastocyanin-like domain-containing protein
AT2G44940	AP2 domain-containing transcription factor TINY
AT3G19680	expressed protein
AT4G34950	nodulin family protein
AT3G23640	glycosyl hydrolase family 31 protein
AT3G52740	expressed protein
AT1G66890	expressed protein
AT5G13180	no apical meristem (NAM) family protein
AT5G20070	MutT/nudix family protein
AT5G16010	3-oxo-5-alpha-steroid 4-dehydrogenase family protein
AT5G13740	carbohydrate transporter
AT2G20750	beta-expansin, putative (EXPB1)
AT3G63200	patatin-related
AT1G51070	basic helix-loop-helix (bHLH) family protein
AT1G63090	F-box family protein
AT5G15850	zinc finger protein CONSTANS-LIKE 1 (COL1)
AT5G01740	wound-inducible protein wun1 protein
AT4G17880	basic helix-loop-helix (bHLH) family protein
AT1G56670	GDSL-motif lipase
AT1G20070	expressed protein
AT3G25890	AP2 domain-containing transcription factor, putative
AT4G37590	phototropic-responsive NPH3 family protein
AT4G03060	2-oxoglutarate-dependent dioxygenase
AT3G47560	esterase
AT5G52310	low-temperature-responsive protein 78 (LTI78)
AT5G67390	expressed protein
AT1G49010	myb family transcription factor
AT3G55960	NLI interacting factor (NIF) family protein
AT1G32900	starch synthase
AT1G70580	glutamate:glyoxylate aminotransferase 2 (GGT2)
AT1G72770	protein phosphatase 2C P2C-HA
AT3G23920	beta-amylase, putative
AT3G47420	glycerol-3-phosphate transporter, putative
AT3G11110	zinc finger (C3HC4-type RING finger) family protein
AT3G60690	auxin-responsive family protein
AT1G49470	expressed protein

AT5G15740	expressed protein
AT3G60080	zinc finger (C3HC4-type RING finger) family protein
AT1G21050	expressed protein
AT3G17120	expressed protein
AT2G42540	cold-responsive protein
AT3G12320	expressed protein
AT5G15960 /// AT5G15970	stress-responsive protein (KIN1)
AT2G36910	multidrug resistance P-glycoprotein (PGP1)
AT2G29390	sterol 4-alpha-methyl-oxidase 1 (SMO1)
AT5G07690	myb family transcription factor (MYB29)
AT5G56040	leucine-rich repeat protein kinase,
AT3G56260	expressed protein
AT4G17460	homeobox-leucine zipper protein 1 (HAT1)
AT3G12920	expressed protein
AT3G50750	brassinosteroid signalling positive regulator-related
AT2G41250	haloacid dehalogenase-like hydrolase family protein
AT5G55620	expressed protein
AT4G37560	formamidase, putative
AT2G15020	expressed protein
AT5G15910	dehydrogenase-related
AT2G44670	senescence-associated protein-related
AT3G17800	expressed protein
AT2G01420	auxin transport protein
AT1G72180	leucine-rich repeat transmembrane protein kinase
AT1G28440	leucine-rich repeat transmembrane protein kinase
AT1G69160	expressed protein
AT1G01470	late embryogenesis abundant protein, putative
AT5G66420	expressed protein
AT3G23590	expressed protein
AT4G22200	potassium channel protein 2
AT4G39400	brassinosteroid insensitive 1 (BR1)
AT5G54130	calcium-binding EF hand family protein
AT4G39800	inositol-3-phosphate synthase isozyme 1
AT1G76240	expressed protein
AT5G15950	adenosylmethionine decarboxylase family protein
AT5G65310	homeobox-leucine zipper protein 5 (HB-5)
AT1G06570	4-hydroxyphenylpyruvate dioxygenase (HPD)
