

Table S4. List of genes up-regulated in *herk1 the1* mutant adult plants

Microarray experiments and analyses are described in Materials and Methods. The overlaps with BL-induced (green) or BR-repressed (blue) in WT are indicated. The cell wall genes implicated in cell elongation are highlighted.

AGI	Annotation
AT3G52850	vacuolar sorting receptor, putative
AT3G03150	expressed protein
AT4G07390	PQ-loop repeat family protein
AT1G16370	transporter-related low similarity to organic cation transporter OCTN1
AT5G13220	expressed protein
AT4G28910	expressed protein
AT4G29740	FAD-binding domain-containing protein
AT3G03690	glycosyltransferase family 14 protein
AT1G54030	GDSL-motif lipase, putative
AT5G27600	AMP-binding protein, putative
AT4G27654	expressed protein
AT1G59870	ABC transporter family protein
AT1G73040	jacalin lectin family protein
AT1G76640	calmodulin-related protein, putative
AT1G30530	UDP-glucuronosyl
AT4G10390	protein kinase family protein
AT1G10070	branched-chain amino acid aminotransferase 2
AT1G33110	MATE efflux family protein
AT1G21100	O-methyltransferase, putative
AT2G43060	expressed protein
AT5G02100	oxysterol-binding family protein
AT1G02500	S-adenosylmethionine synthetase 1 (SAM1)
AT2G22890	expressed protein; expression supported by MPSS
AT2G38750	ANNAT4 (ANNEXIN 4); calcium ion binding
AT5G10860	CBS domain-containing protein
AT1G50480 /// AT2G12200 /// AT2G12280	formate--tetrahydrofolate ligase
AT5G42810	expressed protein
AT5G55080	Ras-related GTP-binding protein, putative
AT4G17486	expressed protein
AT1G14990	expressed protein
AT3G23240	ethylene-responsive factor 1
AT4G36990	heat shock factor protein 4 (HSF4)
AT5G67080	protein kinase family protein
AT4G31500	cytochrome P450 83B1 (CYP83B1)
AT1G52000	jacalin lectin family protein
AT1G33590	disease resistance protein-related
AT4G25030	expressed protein
AT4G11350	fringe-related protei
AT5G38120	4-coumarate--CoA ligase family protein
AT4G21400	protein kinase family protein
AT2G24940 /// AT2G24945	cytochrome b5 domain-containing protein
AT1G10530	expressed protein
AT5G22300	nitrilase 4 (NIT4)
AT3G49240	pentatricopeptide (PPR) repeat-containing protein
AT2G15960	expressed protein
AT3G30340	nodulin MtN21 family protein
AT4G11310 /// AT4G11320	cysteine proteinase, putative
AT2G04400	indole-3-glycerol phosphate synthase (IGPS)
AT5G37740	C2 domain-containing protein
AT2G26780	expressed protein
AT4G09830	expressed protein
AT5G43780	sulfate adenylyltransferase 4
AT1G07170	expressed protein
AT2G14290	F-box family protein
AT1G46264	heat shock transcription factor family protein

AT4G21865	expressed protein
AT4G34590	bZIP transcription factor family protein
AT1G11670	MATE efflux family protein
AT4G09820	basic helix-loop-helix (bHLH) family protein
AT4G18360	(S)-2-hydroxy-acid oxidase, peroxisomal, putative
AT1G67300	hexose transporter, putative
AT1G52100	jacalin lectin family protein
AT5G49280	hydroxyproline-rich glycoprotein family protein
AT2G14750	adenylylsulfate kinase 1 (AKN1)
AT5G05950	expressed protein
AT4G21326	subtilase family protein
AT1G70810	C2 domain-containing protein
AT4G36040	DNAJ heat shock N-terminal domain-containing protein
AT1G10140	expressed protein
AT1G05710	ethylene-responsive protein, putative
AT1G19180	expressed protein
AT5G50840	expressed protein
AT1G55210	disease resistance response protein-related
AT3G58710	WRKY family transcription factor
AT4G37300	expressed protein
AT5G13930	chalcone synthase
AT5G11410	protein kinase family protein
AT1G32900	starch synthase, putative
AT5G17990	anthranilate phosphoribosyltransferase
AT4G29690	type I phosphodiesterase
AT2G15580	zinc finger (C3HC4-type RING finger) family protein
AT1G58270	mepirin and TRAF homology domain-containing protein
AT5G53750	expressed protein
AT2G16720	myb family transcription factor
AT3G50440	hydrolase, alpha
AT3G02875	IAA-amino acid hydrolase 1 (ILR1)
AT3G20390	endoribonuclease L-PSP family protein
AT2G02870	kelch repeat-containing F-box family protein
AT4G30460	glycine-rich protein
AT3G14200	heat shock protein binding / unfolded protein binding
AT3G08990	yippee family protein
AT5G24430	calcium-dependent protein kinase, putative
AT5G67160	transferase family protein
AT3G13110	serine O-acetyltransferase (SAT-1)
AT5G13330	AP2 domain-containing transcription factor family protein
AT3G14720	mitogen-activated protein kinase, putative
AT3G15500	no apical meristem (NAM) family protein (NAC3)
AT1G25275	expressed protein
AT3G55130	ABC transporter family protein
AT3G25180	cytochrome P450 family protein
AT2G45570	cytochrome P450 76C2
AT5G54160	quercetin 3-O-methyltransferase 1
AT5G49630	amino acid permease 6 (AAP6)
AT4G37310	cytochrome P450, putative
AT1G54130	RelA/SpoT protein, putative (RSH3)
AT5G17420	cellulose synthase, catalytic subunit (IRX3)
AT3G22290	expressed protein
AT5G43745	phosphotransferase-related
AT4G17230	scarecrow-like transcription factor 13 (SCL13)
AT1G17130	cell cycle control protein-related
AT1G72220	zinc finger (C3HC4-type RING finger) family protein
AT5G11670	malic enzyme
AT1G27030	expressed protein
AT2G47650 /// AT3G62830	NAD-dependent epimerase
AT1G24070	glycosyl transferase family 2 protein

AT1G09920	unknown protein
AT5G63450	cytochrome P450, putative
AT2G39260	MIF4G domain-containing protein
AT4G24340 /// AT4G24350	phosphorylase family protein
AT1G69450	early-responsive to dehydration protein-related
AT2G41380	embryo-abundant protein-related
AT3G55290 /// AT3G55310	short-chain dehydrogenase
AT1G19300	glycosyl transferase family 8 protein
AT1G75300	isoflavone reductase, putative
AT3G03420	Ku70-binding family protein
AT5G48485	protease inhibitor
AT1G34040 /// AT1G34060	carbon-sulfur lyase (AT1G34040) mRNA
AT1G52400	glycosyl hydrolase family 1 protein
AT3G49110 /// AT3G49120	peroxidase 33 (PER33)
AT3G47295	expressed protein
AT2G43910 /// AT2G43920	thiol methyltransferase, putative
AT3G44860 /// AT3G44870	S-adenosyl-L-methionine:carboxyl methyltransferase family protein
AT1G28050	zinc finger (B-box type) family protein
AT1G09970	leucine-rich repeat transmembrane protein kinase, putative
AT3G23640	glycosyl hydrolase family 31 protein
AT2G37580	zinc finger (C3HC4-type RING finger) family protein
AT1G63720	expressed protein similar to putative protein GB:CAA18164
AT1G76070	expressed protein
AT5G10300	hydrolase, alpha
AT3G29590	transferase family protein
AT5G39410	expressed protein
AT5G54960	pyruvate decarboxylase, putative
AT2G06255	expressed protein
AT2G47180	galactinol synthase, putative
AT5G46180	ornithine aminotransferase, putative
AT1G52720	expressed protein
AT1G11580	pectin methylesterase, putative
AT5G16010	3-oxo-5-alpha-steroid 4-dehydrogenase family protein
AT5G27520	mitochondrial substrate carrier family protein
AT3G51240	naringenin 3-dioxygenase
AT5G50720	ABA-responsive protein (HVA22e)
AT5G17220	glutathione S-transferase, putative
AT1G23820	spermidine synthase 1 (SPDSYN1)
AT2G31390	pfkB-type carbohydrate kinase family protein
AT3G07760	expressed protein
AT5G20950	glycosyl hydrolase family 3 protein beta-D-glucan exohydrolase, Nicotiana tabacum
AT3G57450	expressed protein
AT4G21390	S-locus lectin protein kinase family protein
AT2G02850	plastocyanin-like domain-containing protein
AT3G16530	legume lectin family protein
AT2G26650	potassium channel protein 1 (AKT1)
AT5G52320	cytochrome P450, putative
AT1G15100	zinc finger (C3HC4-type RING finger) family protein
AT2G46680	homeobox-leucine zipper protein 7 (HB-7)
AT4G13950	rapid alkalization factor (RALF) family protein
AT5G20230	plastocyanin-like domain-containing protein
AT2G38050	3-oxo-5-alpha-steroid 4-dehydrogenase, putative
AT4G16760	acyl-CoA oxidase (ACX1)
AT4G27410	no apical meristem (NAM) family protein
AT2G26740 /// AT2G26750	epoxide hydrolase, soluble (sEH)
AT4G17470	palmitoyl protein thioesterase family protein
AT2G25810	tonoplast intrinsic protein, putative
AT4G37990	mannitol dehydrogenase, putative (ELI3-2)
AT4G24380	expressed protein
AT4G27450	unknown protein

AT1G71050	heavy-metal-associated domain-containing protein
AT2G29450	glutathione S-transferase (103-1A)
AT5G60300	lectin protein kinase family protein
AT5G27760	hypoxia-responsive family protein
AT4G25900	aldose 1-epimerase family protein
AT2G34730	myosin heavy chain-related
AT2G28110	exostosin family protein contains 1 transmembrane domain;
AT3G18830	mannitol transporter, putative
AT3G49780	phytosulfokines 3 (PSK3)
AT2G23320	WRKY family transcription factor
AT5G24420	glucosamine/galactosamine-6-phosphate isomerase-related
AT1G70780	expressed protein
AT3G23550	MATE efflux family protein
AT1G68620	expressed protein
AT1G67980	caffeoyl-CoA 3-O-methyltransferase, putative
AT2G45290	transketolase, putative strong similarity to transketolase 1
AT5G12890	UDP-glucuronosyl
AT5G64260	phosphate-responsive protein, putative
AT4G22270	expressed protein
AT3G59050	amine oxidase family protein
AT3G50740	UDP-glucosyl transferase family protein
AT3G23250	myb family transcription factor (MYB15)
AT4G15610	integral membrane family protein
AT4G21680	proton-dependent oligopeptide transport (POT) family protein
AT3G44320	nitrilase 3 (NIT3)
AT5G05390	laccase, putative
AT1G72520	lipoxygenase, putative
AT1G58200	mechanosensitive ion channel domain-containing protein
AT5G14710	unknown protein
AT1G63910	myb family transcription factor (MYB103)
AT3G59220	pirin, putative
AT5G26980	syntaxin 41 (SYP41)
AT2G39050	hydroxyproline-rich glycoprotein family protein
AT5G39730	avirulence-responsive protein-related
AT3G10500	no apical meristem (NAM) family protein
AT3G62650	expressed protein putative mitochondrial carrier protein
AT2G22760	basic helix-loop-helix (bHLH) family protein
AT2G16890	UDP-glucosyl transferase family protein
AT1G69360	expressed protein
AT3G17250	protein phosphatase 2C-related
AT2G37770	aldo/keto reductase family protein
AT5G50370	adenylate kinase, putative
AT1G17020	oxidoreductase, 2OG-Fe(II) oxygenase family protein
AT5G67480	TAZ zinc finger family protein
AT5G52450	MATE efflux protein-related strong similarity to unknown protein (pir T02324)
AT4G23680	major latex protein-related
AT4G21900 /// AT4G21910	antiporter/ drug transporter
AT2G44200	expressed protein
AT3G08690	ubiquitin-conjugating enzyme 11 (UBC11) E2;
AT4G16520	autophagy 8f (APG8f)
AT5G18130	expressed protein
AT1G24807 /// AT1G24909 /// AT1G25083 ///	
AT1G25155 /// AT1G25220 /// AT5G57890	anthranilate synthase beta subunit, putative
AT3G50220	expressed protein
AT5G24770 /// AT5G24780	vegetative storage protein 2 (VSP2)
AT4G36830	GNS1/SUR4 membrane family protein
AT4G08770	peroxidase, putative
AT2G33380	calcium-binding RD20 protein (RD20)
AT1G78210	hydrolase, alpha
AT1G68470	exostosin family protein

AT2G34930	disease resistance family protein
AT5G15630	phytochelatin synthetase family protein
AT2G22560	kinase interacting protein-related
AT5G41990	protein kinase family protein
AT1G30135	expressed protein
AT1G62540	flavin-containing monooxygenase family protein
AT5G36220	cytochrome P450 81D1 (CYP81D1) (CYP91A1)
AT5G12340	expressed protein
AT4G33150	lysine-ketoglutarate reductase
AT2G34500	cytochrome P450 family protein
AT5G42650	allene oxide synthase (AOS)
AT4G12490	protease inhibitor
AT1G52890	no apical meristem (NAM) family protein
AT2G22880	VQ motif-containing protein
AT1G53885	senescence-associated protein-related
AT5G66420	expressed protein
AT1G24100	UDP-glucosyl transferase family protein
AT2G43530	trypsin inhibitor, putative
AT1G62760	invertase
AT1G07750	cupin family protein
AT5G59440	thymidylate kinase family protein
AT1G54100	aldehyde dehydrogenase, putative
AT3G29970	germination protein-related
AT4G27070 /// AT5G54810	tryptophan synthase, beta subunit 2 (TSB2)
AT4G39675	expressed protein
AT1G25500	choline transporter-related
AT5G57150	basic helix-loop-helix (bHLH) family protein
AT1G19680	expressed protein
AT2G22330	cytochrome P450, putative
AT4G12430	trehalose-6-phosphate phosphatase, putative
AT4G20860	FAD-binding domain-containing protein
AT2G23180	cytochrome P450, putative
AT5G54390	inositol monophosphatase family protein
AT5G65870	phytosulfokines 5 (PSK5)
AT2G30870	glutathione S-transferase, putative
AT5G09980	expressed protein
AT3G19550	expressed protein
AT1G06620	2-oxoglutarate-dependent dioxygenase, putative
AT2G43520	trypsin inhibitor, putative
AT4G17615	calcineurin B-like protein 1 (CBL1)
AT1G61800	glucose-6-phosphate
AT3G49620	DIN11 (DARK INDUCIBLE 11)
AT2G30530	expressed protein
AT1G31710	copper amine oxidase, putative
AT1G32640	basic helix-loop-helix (bHLH) protein (RAP-1)
AT1G29330	ER lumen protein retaining receptor (ERD2)
AT5G44030	cellulose synthase, catalytic subunit (IRX5)
AT1G61120	terpene synthase
AT5G47240	MutT/nudix family protein
AT1G26665	expressed protein
AT5G67210	expressed protein
AT1G80110	expressed protein
AT5G16450	dimethylmenaquinone methyltransferase family protein
AT2G29440	glutathione S-transferase, putative
AT5G12010	expressed protein
AT4G37410	cytochrome P450, putative
AT5G57340	expressed protein
AT3G27880	expressed protein
AT3G26200	cytochrome P450 71B22, putative (CYP71B22)
AT2G03980	GDSL-motif lipase

AT3G10250	expressed protein
AT1G36280 /// AT4G18440	adenylosuccinate lyase, putative
AT5G16970	NADP-dependent oxidoreductase, putative (P1)
AT5G54690	glycosyl transferase family 8 protein
AT1G80820	cinnamoyl-CoA reductase, putative
AT2G39420	esterase
AT4G36670	mannitol transporter, putative
AT5G66650	expressed protein
AT3G16470	jacalin lectin family protein
AT3G60120	glycosyl hydrolase family 1 protein
AT2G22860	phytosulfokines 2 (PSK2)
AT4G30530	defense-related protein, putative
AT3G59010	pectinesterase family protein
AT5G54170	expressed protein
AT1G33030	O-methyltransferase family 2 protein
AT3G51450	strictosidine synthase family protein
AT3G16500	auxin-responsive AUX
AT1G72510 /// AT2G09970	expressed protein
AT1G52410	caldesmon-related
AT4G27860	integral membrane family protein
AT3G09940	monodehydroascorbate reductase, putative
AT5G14700	cinnamoyl-CoA reductase-related
AT3G02550	LOB domain protein 41
AT5G41800	amino acid transporter family protein
AT5G05340	peroxidase, putative
AT1G14130	2-oxoglutarate-dependent dioxygenase, putative
AT3G24954 /// AT3G24982	leucine-rich repeat family protein
AT3G15790	methyl-CpG-binding domain-containing protein
AT3G48890	cytochrome b5 domain-containing protein
AT4G11650	osmotin-like protein (OSM34)
AT5G05600	oxidoreductase, 2OG-Fe(II) oxygenase family protein
AT2G29460	glutathione S-transferase, putative
AT3G16920	glycoside hydrolase family 19 protein
AT4G10380	major intrinsic family protein
AT3G17810	dihydroorotate dehydrogenase family protein
AT2G22770	basic helix-loop-helix (bHLH) family protein
AT1G76650	calcium-binding EF hand family protein
AT3G26820 /// AT3G26840	esterase
AT1G03495 /// AT1G03940	pseudogene, transferase family
AT4G29700	type I phosphodiesterase
AT1G70830	Bet v I allergen family protein similar to Csf-2
AT1G64360	expressed protein
AT5G22630	prephenate dehydratase family protein
AT1G66860	expressed protein
AT1G19550 /// AT1G19570	dehydroascorbate reductase, putative
AT4G22870 /// AT4G22880	leucoanthocyanidin dioxygenase, putative
AT4G14090	UDP-glucuronosyl
AT2G39030	GCN5-related N-acetyltransferase (GNAT) family protein
AT1G17420	lipoxygenase, putative
AT3G46660	UDP-glucosyl transferase family protein
AT3G28270	expressed protein
AT5G09440	phosphate-responsive protein, putative
AT5G56760	serine O-acetyltransferase (SAT-52)
AT4G15093	catalytic LigB subunit of aromatic ring-opening dioxygenase family
AT4G14010	rapid alkalization factor (RALF) family protein
AT4G11600	glutathione peroxidase, putative
AT3G25780	allene oxide cyclase, putative
AT1G72180	leucine-rich repeat transmembrane protein kinase, putative
AT3G12490	cysteine protease inhibitor, putative
AT3G19660	expressed protein

AT5G54060	glycosyltransferase family protein
AT5G59730	exocyst subunit EXO70 family protein leucine zipper-containing protein
AT2G22900	galactosyl transferase GMA12
AT4G16770	oxidoreductase, 2OG-Fe(II) oxygenase family protein
AT2G34070	expressed protein
AT2G36380	ABC transporter family protein
AT5G43460	lesion inducing protein-related
AT4G08870 /// AT4G08900	arginase, putative
AT4G39980	2-dehydro-3-deoxyphosphoheptonate aldolase 1
AT2G06050	12-oxophytodienoate reductase (OPR3)
AT1G52030 /// AT1G52040	myrosinase-binding protein, putative (F-ATMBP)
AT1G63010	SPX (SYG1/Pho81/XPR1) domain-containing protein
AT1G19610	plant defensin-fusion protein, putative (PDF1.4)
AT1G22480	plastocyanin-like domain-containing protein
AT5G38710	proline oxidase, putative
AT4G23600	coronatine-responsive tyrosine aminotransferase
AT1G73330	protease inhibitor, putative (DR4)
AT1G03080	kinase interacting family protein
AT4G01390	mepirin and TRAF homology domain-containing protein
AT1G65890	acyl-activating enzyme 12 (AAE12)
AT5G59305	expressed protein
AT5G54300	expressed protein
AT3G47750 /// AT3G47760	ABC transporter family protein
AT1G61610	S-locus lectin protein kinase family protein
AT1G66370	myb family transcription factor (MYB113)
AT4G34050	caffeoyl-CoA 3-O-methyltransferase, putative
AT4G27652	expressed protein
AT2G15760	calmodulin-binding protein
AT1G72260	thionin (THI2.1)
AT3G62960	glutaredoxin family protein
AT1G14120	2-oxoglutarate-dependent dioxygenase, putative
AT5G44380	FAD-binding domain-containing protein
AT3G05690	CCAAT-binding transcription factor (CBF-B)
AT5G55120	expressed protein
AT5G19440	cinnamyl-alcohol dehydrogenase, putative (CAD)
AT5G09620	octicosapeptide
AT1G69870	proton-dependent oligopeptide transport (POT) family protein
AT4G37710	VQ motif-containing protein
AT5G24290	integral membrane family protein
AT4G21850	methionine sulfoxide reductase domain-containing protein
AT3G16390 /// AT3G16400 /// AT3G16410	jacalin lectin family protein
AT1G17745	D-3-phosphoglycerate dehydrogenase
AT3G09260	glycosyl hydrolase family 1 protein
AT4G35110	expressed protein
AT3G16420 /// AT3G16430	jacalin lectin family protein
AT5G15960 /// AT5G15970	stress-responsive protein (KIN1)
AT5G47910	respiratory burst oxidase protein D (RbohD)
AT3G28220	mepirin and TRAF homology domain-containing protein
AT4G38540	monooxygenase, putative (MO2)
AT5G24760	alcohol dehydrogenase, putative
AT5G24160	squalene monooxygenase 1,2
AT3G01970	WRKY family transcription factor
AT4G35060	heavy-metal-associated domain-containing protein
AT1G72450	expressed protein
AT3G17820	glutamine synthetase (GS1)
AT1G19640	S-adenosyl-L-methionine:jasmonic acid carboxyl methyltransferase (JMT)
AT1G69480	EXS family protein
AT1G23850	expressed protein
AT4G12040	zinc finger (AN1-like) family protein
AT3G25570	adenosylmethionine decarboxylase family protein

AT2G22240	inositol-3-phosphate synthase isozyme 2
AT3G16460	jacalin lectin family protein
AT5G65600	legume lectin family protein
AT1G18710	myb family transcription factor (MYB47)
AT3G52870	calmodulin-binding family protein
AT3G25760 /// AT3G25770	early-responsive to dehydration stress protein (ERD12)
AT2G39770	GDP-mannose pyrophosphorylase (GMP1)
AT3G16450	jacalin lectin family protein
AT2G32150	haloacid dehalogenase-like hydrolase family protein
AT2G30490	trans-cinnamate 4-monooxygenase
AT1G51760 /// AT1G51780	IAA-amino acid hydrolase 3
AT3G45140	lipoxygenase (LOX2)
AT1G28680	transferase family protein
AT2G34810	FAD-binding domain-containing protein
AT2G43510	trypsin inhibitor, putative
AT3G15950	DNA topoisomerase-related
AT2G39330	jacalin lectin family protein
AT1G78490	cytochrome P450 family protein
AT5G13800	hydrolase, alpha
AT4G39270	leucine-rich repeat transmembrane protein kinase, putative
AT1G56650	myb family transcription factor (MYB75)
