

**Table S1 Genes showing significant expression changes following ABA treatment**

**Gene**

BVRB\_9g224290  
BVRB\_9g219990  
BVRB\_9g219970  
BVRB\_9g217380  
BVRB\_9g217350  
BVRB\_9g214430  
BVRB\_9g213820  
BVRB\_9g212980  
BVRB\_9g212690  
BVRB\_9g207750  
BVRB\_8g201410  
BVRB\_8g200100  
BVRB\_8g195980  
BVRB\_8g194100  
BVRB\_8g192250  
BVRB\_8g183770  
BVRB\_7g178570  
BVRB\_7g178040  
BVRB\_7g176390  
BVRB\_7g175890  
BVRB\_7g175840  
BVRB\_7g175830  
BVRB\_7g167090  
BVRB\_7g161920  
BVRB\_7g161130  
BVRB\_6g155830  
BVRB\_6g153650  
BVRB\_6g151700  
BVRB\_6g142850  
BVRB\_6g142840  
BVRB\_6g139150  
BVRB\_6g138820  
BVRB\_6g138390  
BVRB\_6g138350  
BVRB\_6g134880  
BVRB\_6g134660  
BVRB\_6g134380  
BVRB\_6g132830  
BVRB\_6g129740  
BVRB\_6g128920  
BVRB\_6g127730

BVRB\_6g127250  
BVRB\_5g125610  
BVRB\_5g122270  
BVRB\_5g119020  
BVRB\_5g114780  
BVRB\_5g114170  
BVRB\_5g109360  
BVRB\_5g108690  
BVRB\_5g108150  
BVRB\_5g108110  
BVRB\_5g105100  
BVRB\_5g097930  
BVRB\_5g097680  
BVRB\_5g097660  
BVRB\_4g096690  
BVRB\_4g096480  
BVRB\_4g095830  
BVRB\_4g095800  
BVRB\_4g092320  
BVRB\_4g092310  
BVRB\_4g087670  
BVRB\_4g087440  
BVRB\_4g086830  
BVRB\_4g084500  
BVRB\_4g084390  
BVRB\_4g077620  
BVRB\_4g077420  
BVRB\_4g077090  
BVRB\_4g076950  
BVRB\_4g075680  
BVRB\_4g074510  
BVRB\_3g065180  
BVRB\_3g065160  
BVRB\_3g064800  
BVRB\_3g062520  
BVRB\_3g060460  
BVRB\_3g060450  
BVRB\_3g059180  
BVRB\_3g059060  
BVRB\_3g056330  
BVRB\_3g053710  
BVRB\_2g042180  
BVRB\_2g041040  
BVRB\_2g040650

BVRB\_2g038820  
 BVRB\_2g038810  
 BVRB\_2g037550  
 BVRB\_2g036160  
 BVRB\_2g035320  
 BVRB\_2g034220  
 BVRB\_1g012610  
 BVRB\_1g011370  
 BVRB\_1g010850  
 BVRB\_1g006560  
 BVRB\_1g006550  
 BVRB\_1g006530  
 BVRB\_1g005980  
 BVRB\_014620  
 BVRB\_012850  
 BVRB\_010950  
 BVRB\_010900  
 BVRB\_009730  
 BVRB\_003990  
 BVRB\_000660

**Table S2 The regulatory relationship and promoter binding sites of 4 BvAP2s on 60 significantly expressed genes**

<i>BvAP2s</i>	Significantly expressed genes	Predicted promoter binding site
<i>BVRB_4g074790</i>	<i>BVRB_2g040650</i>	aaaaaaaagaaaaagaaaga
<i>BVRB_4g074790</i>	<i>BVRB_3g056330</i>	aataaaaagaaaaagagg
<i>BVRB_4g074790</i>	<i>BVRB_6g133970</i>	aaaaaaaagaataagagaaa
<i>BVRB_4g074790</i>	<i>BVRB_9g222410</i>	aagaacaaaaagagagagg
<i>BVRB_4g074790</i>	<i>BVRB_3g056330</i>	agaaaaaaaggagagaga
<i>BVRB_4g074790</i>	<i>BVRB_1g002480</i>	aaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g179340</i>	aaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g179340</i>	aaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g179340</i>	aaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g179340</i>	aaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g179340</i>	aaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_3g056330</i>	aaagaaaaaaggaggagaga
<i>BVRB_4g074790</i>	<i>BVRB_3g064830</i>	aaaaaagaaaaagaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_3g059060</i>	tgaaaagaagaagagagaaa
<i>BVRB_4g074790</i>	<i>BVRB_3g056330</i>	aaagaggagagagaaagaaa

BVRB_4g074790	BVRB_3g056330	aggagagagaaagaaagaga
BVRB_4g074790	BVRB_3g056330	gagagagaaagaaagagag
BVRB_4g074790	BVRB_3g064830	tagaaaaaagaaaagaaaaa
BVRB_4g074790	BVRB_6g149900	aataaaaaaaagacaagaag
BVRB_4g074790	BVRB_6g133970	aggaaataaaaggagagaga
BVRB_4g074790	BVRB_3g060300	aaagaaaaagagaaaaaaa
BVRB_4g074790	BVRB_001250	aagaacaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_9g209480	agtaaaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_2g040650	acaaaaaaaaagaaaagaaa
BVRB_4g074790	BVRB_6g133970	agaaaaaaataaaaaagaaa
BVRB_4g074790	BVRB_9g209480	taaaaaaaaaaaaaaaaaag
BVRB_4g074790	BVRB_2g040090	aaaaaaaaaagaaataag
BVRB_4g074790	BVRB_4g096480	aagagagagaaagagagtaa
BVRB_4g074790	BVRB_4g094330	aagagagagaaagagagtaa
BVRB_4g074790	BVRB_1g012610	aaagaaaaaggagcgagacg
BVRB_4g074790	BVRB_3g060300	aaaaagaagaaaaaacag
BVRB_4g074790	BVRB_1g002480	caaaaaaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_6g154940	caaaaaaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_6g138820	tagaaggagaagaagaaaaa
BVRB_4g074790	BVRB_6g133970	aaaaaagaataagagaaga
BVRB_4g074790	BVRB_6g138390	agtgaaaaaaaaaaaaaaag
BVRB_4g074790	BVRB_6g138390	aaaaaaaaaaaaagaacgaaa
BVRB_4g074790	BVRB_9g222410	aaaaaaaaaagaacaaaaaa
BVRB_4g074790	BVRB_6g138360	aaagaagtgaagaaaaaaa
BVRB_4g074790	BVRB_3g056330	agaggagagagaaagaaaga
BVRB_4g074790	BVRB_5g125360	agaaaagagagaaaaataga
BVRB_4g074790	BVRB_3g059060	aaaaaaagtggaaaaaaa
BVRB_4g074790	BVRB_1g012610	caaaaaaaaaaaaaagagtaa
BVRB_4g074790	BVRB_5g125360	aagaatatgaaggagagaga
BVRB_4g074790	BVRB_6g133970	aaaaaaaagagtaaaaaaa
BVRB_4g074790	BVRB_6g133970	aggaaaaaatgagagagaca
BVRB_4g074790	BVRB_3g064800	aagaaagaaacaaagaaaaa
BVRB_4g074790	BVRB_6g138390	gaggaaagtgaaaaaaaaaa
BVRB_4g074790	BVRB_7g171070	aatgaagaggagagaagaag
BVRB_4g074790	BVRB_6g133970	aaaaaaagtaaaaaaaaaa
BVRB_4g074790	BVRB_3g064830	aaaaagaaaagaaaaaaa
BVRB_4g074790	BVRB_3g064830	agaaaaaagaaaagaaaaa
BVRB_4g074790	BVRB_3g060300	taaaagaaaagaagaaaaa
BVRB_4g074790	BVRB_5g125360	gaagagaaaagagagaaaaa
BVRB_4g074790	BVRB_2g040650	caaaacaaaaaaaaagaaaaa
BVRB_4g074790	BVRB_4g087480	gatgaagaaggagagaaagg
BVRB_4g074790	BVRB_3g052290	aataaaaaaaatacaagaaa
BVRB_4g074790	BVRB_2g041660	aaaaaaaaagaggggaaaga
BVRB_4g074790	BVRB_2g035160	caaaagaaaaagaaaagaag

BVRB_4g074790	BVRB_4g096480	gatgaaaaaacaagagaaa
BVRB_4g074790	BVRB_5g116810	gaagcaaagaaaaaacaga
BVRB_4g074790	BVRB_3g069410	aaaaaaaaaaaaggaaaaag
BVRB_4g074790	BVRB_3g064830	ggtagaaaaaagaaaagaaa
BVRB_4g074790	BVRB_2g040650	aaaagaaaaagaaagataga
BVRB_4g074790	BVRB_6g138360	aagaaaaggaggagagagaca
BVRB_4g074790	BVRB_3g056330	aaaaaaaggaggagagagaaa
BVRB_4g074790	BVRB_6g133970	gggaaataagaggagagaga
BVRB_4g074790	BVRB_6g133970	gggaaataagaggagagaga
BVRB_4g074790	BVRB_5g119020	aagagagagaataggagaga
BVRB_4g074790	BVRB_6g133980	aaagaagtaaaggagataaa
BVRB_4g074790	BVRB_9g218090	taaaacaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_6g132830	taaaaaaaaaagaaataaa
BVRB_4g074790	BVRB_4g096480	aaaaaacaagagaaagagag
BVRB_4g074790	BVRB_001110	ttgaaaaagagaagagaaa
BVRB_4g074790	BVRB_6g133970	aaaagaataagagaagagg
BVRB_4g074790	BVRB_9g209480	aaaaaaaaaaaaaagcaag
BVRB_4g074790	BVRB_3g064830	aaaagaaaagaaaaaaagg
BVRB_4g074790	BVRB_9g222410	gagaaaaaaaaagaacaaa
BVRB_4g074790	BVRB_9g209480	tagaaagtaaaaaaaaaaaa
BVRB_4g074790	BVRB_2g041660	ttgaaagaaaaaaaaagagg
BVRB_4g074790	BVRB_5g119020	gatggaaaggagaaaagaaa
BVRB_4g074790	BVRB_6g155020	agggaggagagagaaacaaa
BVRB_4g074790	BVRB_3g069410	caaaaaaaaaaaggaaaaaa
BVRB_4g074790	BVRB_001250	agaaaaaaaaataaaaaaag
BVRB_4g074790	BVRB_6g155020	acaaaaaaaaaagaaaaaaa
BVRB_4g074790	BVRB_6g133970	agagaaaaaaaaataaaaaa
BVRB_4g074790	BVRB_1g002480	aaaaaaaaaaaaaaaaactaa
BVRB_4g074790	BVRB_1g012610	aaaaagaaaaaggagcgaga
BVRB_4g074790	BVRB_8g188760	aaagaggagaaaacgacaca
BVRB_4g074790	BVRB_5g119020	gagagagaataggagagaga
BVRB_4g074790	BVRB_4g095810	aatgaaaaaaaaataaaaaa
BVRB_4g074790	BVRB_3g064830	aaaagaaaaaaaggaaaaag
BVRB_4g074790	BVRB_5g122270	gagagataggaaaagagaag
BVRB_4g074790	BVRB_3g069410	aaaaaaaaaggaaaaagtca
BVRB_4g074790	BVRB_4g096480	agtaaagtaggagcgagaaa
BVRB_4g074790	BVRB_4g094330	agtaaagtaggagcgagaaa
BVRB_4g074790	BVRB_3g052290	aaaaaagaaaaaaatagtaa
BVRB_4g074790	BVRB_4g094250	ataaaaaagaaaaatagaaa
BVRB_4g074790	BVRB_3g059060	cctgaaaagaagaagagaga
BVRB_4g074790	BVRB_4g096470	tgaacaagtaaaagagaaa
BVRB_4g074790	BVRB_2g035160	agtagcaaaagaaaaagaaa
BVRB_4g074790	BVRB_3g052290	agtaaaaaaaaaataaaaaaa
BVRB_4g074790	BVRB_1g012610	gggacagaaaaagaaaaagg

BVRB_4g074790	BVRB_6g155020	agagaaagggaggagagaga
BVRB_4g074790	BVRB_6g140440	aaaacagaaaaaaaaataca
BVRB_4g074790	BVRB_6g133970	aaaagagtaaaaaaaaaaga
BVRB_4g074790	BVRB_6g149900	aaaaaaaagacaagaagaga
BVRB_4g074790	BVRB_6g146980	taacaaaaggaaaaaacaaa
BVRB_4g074790	BVRB_3g060300	ggtaaaaagtaggaagagaga
BVRB_4g074790	BVRB_6g155020	agagagaaagggaggagagaga
BVRB_4g074790	BVRB_4g095810	acaaaaaagagagaaaaagg
BVRB_4g074790	BVRB_2g040650	gaaaaataaaaaaaaaagtaa
BVRB_4g074790	BVRB_3g059060	aaagaagaagagagaaaaag
BVRB_4g074790	BVRB_6g138390	acaaaaaaaaaaaaaaaaaca
BVRB_4g074790	BVRB_9g222370	attaaaaaaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_6g138390	aaaaaaaaaaaaaaaaacaat
BVRB_4g074790	BVRB_9g222410	gaggacgaaggagaaaaaaa
BVRB_4g074790	BVRB_3g052290	aaaaaaataaaaaataca
BVRB_4g074790	BVRB_5g122270	ggaaaaagagaagaagaatag
BVRB_4g074790	BVRB_4g095830	gagaaagaaaataaaagtaa
BVRB_4g074790	BVRB_001250	aaagaacaaaaaaaaaaaaa
BVRB_4g074790	BVRB_2g040650	tgtaaaaaaaaaaaaaacaca
BVRB_4g074790	BVRB_6g155020	taaaagaaaagaaaaaagg
BVRB_4g074790	BVRB_2g040650	aaaacaaaaaaaaagaaaaag
BVRB_4g074790	BVRB_4g095830	ggagagaagaaagatagaga
BVRB_4g074790	BVRB_7g171070	aagggaagaaagggagaaaat
BVRB_4g074790	BVRB_9g209480	gtaaaaaaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_6g132830	agaacagaatagaaaagagg
BVRB_4g074790	BVRB_9g222410	aaaaaaaagaacaaaaaaga
BVRB_4g074790	BVRB_4g096480	aaggaataaagtaaagagg
BVRB_4g074790	BVRB_4g094330	aaggaataaagtaaagagg
BVRB_4g074790	BVRB_8g181360	agagaagggaaaaggagaga
BVRB_4g074790	BVRB_2g040650	aaacaaaaaaaaagaaaaaga
BVRB_4g074790	BVRB_3g059060	agaaaaaagtggaaaaaaa
BVRB_4g074790	BVRB_2g041660	aaaaaaagaggggaaagaaa
BVRB_4g074790	BVRB_5g125360	tagaggggaagagaaaagaga
BVRB_4g074790	BVRB_4g095810	aagagagagaaaaatacaag
BVRB_4g074790	BVRB_4g095810	aaaaaaataaaaaatacaaa
BVRB_4g074790	BVRB_4g096480	aagaaaatgaaggaaaaaa
BVRB_4g074790	BVRB_6g155020	gaagaaatataaaaaagaag
BVRB_4g074790	BVRB_6g138820	cgtaaaaaaaggaaaaaaaa
BVRB_4g074790	BVRB_4g096480	gttaaagtaagagagagaaa
BVRB_4g074790	BVRB_2g035160	tagcaaaagaaaaagaaaag
BVRB_4g074790	BVRB_4g094330	gttaaagtaagagagagaaa
BVRB_4g074790	BVRB_4g077090	gaaaaggagaaaaataaaaa
BVRB_4g074790	BVRB_7g173230	aaagaggtagaaaaaaaaaa
BVRB_4g074790	BVRB_3g069410	aaaaaaaaaaggaaaaagt

BVRB_4g074790	BVRB_2g035060	ggagaggagagagatagaga
BVRB_4g074790	BVRB_3g069410	tcaaaaaaaaaaaaaaaaaa
BVRB_4g074790	BVRB_6g138390	attaaaaaaaaaatagaaa
BVRB_4g074790	BVRB_4g096470	aaaaaaaaagtaaaacgaaa
BVRB_4g074790	BVRB_1g002480	aaaaaaaaaaaaaaaaaaac
BVRB_4g074790	BVRB_7g179340	aaaaaaaaaaaaaaaaaaac
BVRB_4g074790	BVRB_6g154940	aaaaaaaaaaaaaaaaaaac
BVRB_4g074790	BVRB_3g060300	aagaaaaagaagaaaaaac
BVRB_4g074790	BVRB_3g060300	aaaagaaaaagaagaaaaa
BVRB_4g074790	BVRB_9g222410	acgaaggagaaaaaaaag
BVRB_4g074790	BVRB_9g209480	aaaaaaaaaaaaaaaaaagc
BVRB_4g074790	BVRB_4g096470	taaaacaagacaaaaagaga
BVRB_4g074790	BVRB_2g046580	aaaaataaaaaaacaaaaa
BVRB_4g074790	BVRB_9g222410	aaggagaaaaaaaagaac
BVRB_4g074790	BVRB_4g095810	gtaaaagaaaaataaagaag
BVRB_4g074790	BVRB_9g222410	agaaaaaaaaaagaacaaaa
BVRB_4g074790	BVRB_1g011370	aggaaaaaaaaaggaaaatag
BVRB_4g074790	BVRB_6g133970	aaaaaaataaaaaagaagt
BVRB_4g074790	BVRB_6g155020	atgcaagagagagagaaaa
BVRB_4g074790	BVRB_6g129380	aaaaataaaaaatagacaag
BVRB_4g074790	BVRB_9g222370	ataagggaagaaaagagaaa
BVRB_4g074790	BVRB_1g002480	aaaaaaaaaaaaaaaaaaact
BVRB_4g074790	BVRB_6g154940	aaaaaaaaaaaaaaaaaaact
BVRB_4g074790	BVRB_4g095810	taggggaagagagagaaaaa
BVRB_4g074790	BVRB_5g125360	gggaagagaaaagagagaaa
BVRB_4g074790	BVRB_6g133970	aataggaaaaatgagagaca
BVRB_4g074790	BVRB_1g012610	aaggaggagaaaagaaaataa
BVRB_4g074790	BVRB_6g138370	aggagagagaaagggagtaa
BVRB_4g074790	BVRB_9g222410	aggacgaaggagaaaaaaa
BVRB_4g074790	BVRB_4g096470	aaagcgaaaaaaaaaagtaa
BVRB_4g074790	BVRB_3g055530	taaacaaggaaaaaataaa
BVRB_4g074790	BVRB_4g096470	ggtaaaaaggaaaagaataa
BVRB_4g074790	BVRB_6g146980	tggagagagaaagagagaat
BVRB_4g074790	BVRB_4g095830	tgaaaaagaagaacgataga
BVRB_4g074790	BVRB_8g181360	aaaaaagagagcaaaaaaag
BVRB_4g074790	BVRB_9g218090	aatacgaaaaaaaaaaaaaca
BVRB_4g074790	BVRB_6g138820	gaaggagaagaagaaaaaca
BVRB_4g074790	BVRB_4g087480	agaaaaatagaatgggagaga
BVRB_4g074790	BVRB_3g065160	gagggaagtagaaaaataga
BVRB_4g074790	BVRB_9g224290	caaaagaaaacaagagaag
BVRB_4g074790	BVRB_6g138390	aaaaaaaaaagaacgaaaat
BVRB_4g074790	BVRB_6g132830	aaaaaaaaaagaaataaaa
BVRB_4g074790	BVRB_6g154940	gatgaagaaagagataaaga
BVRB_4g074790	BVRB_3g052290	aatacaaaaagtaaaaaaa

<i>BVRB_4g074790</i>	<i>BVRB_4g096480</i>	aaagagaaagaagaagaat
<i>BVRB_4g074790</i>	<i>BVRB_8g181370</i>	aaaaaaaaagaagctaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_1g002480</i>	aaaaaaaaaaaaaactaaa
<i>BVRB_4g074790</i>	<i>BVRB_6g146530</i>	aaaaaggaagataatagaaa
<i>BVRB_4g074790</i>	<i>BVRB_2g033420</i>	tgggaaaaaaaaagataaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g171070</i>	tgaaggaagaaggagagaaa
<i>BVRB_4g074790</i>	<i>BVRB_9g222410</i>	tgggaggagagagatagaga
<i>BVRB_4g074790</i>	<i>BVRB_6g140440</i>	taaacaataaaggaggagg
<i>BVRB_4g074790</i>	<i>BVRB_6g146980</i>	tttgagagagaaagagaga
<i>BVRB_4g074790</i>	<i>BVRB_3g052290</i>	caaaaagtaaaaaaaaaataa
<i>BVRB_4g074790</i>	<i>BVRB_7g161130</i>	aaaaaaaaaaaaaaaaatcaag
<i>BVRB_4g074790</i>	<i>BVRB_1g002480</i>	ccaaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_6g154940</i>	ccaaaaaaaaaaaaaaaaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_9g222370</i>	ttaaaaaaaaaaaaaaaaaag
<i>BVRB_4g074790</i>	<i>BVRB_2g035060</i>	aataacagaggagagagaaa
<i>BVRB_4g074790</i>	<i>BVRB_6g133970</i>	aaaagagaaaataggaaaaa
<i>BVRB_4g074790</i>	<i>BVRB_7g171070</i>	tagagagagaaaactagaga
<i>BVRB_4g074790</i>	<i>BVRB_4g095810</i>	aaaaaaaaataaaaaataca
<i>BVRB_6g128480</i>	<i>BVRB_1g012610</i>	ttgcacagtctccaagacgta
<i>BVRB_6g128480</i>	<i>BVRB_2g030810</i>	ccgcacatctccctagggtt
<i>BVRB_6g128480</i>	<i>BVRB_2g040650</i>	ttacacagtctccaagacgta
<i>BVRB_6g128480</i>	<i>BVRB_3g056330</i>	tagcacgaattcccagatttg
<i>BVRB_6g128480</i>	<i>BVRB_6g133980</i>	aatcgcacatcccgagacaca
<i>BVRB_6g128480</i>	<i>BVRB_009530</i>	ggactcaaatcccgaacctga
<i>BVRB_6g128480</i>	<i>BVRB_4g095830</i>	aatcacggattcctaggcaat
<i>BVRB_6g128480</i>	<i>BVRB_6g127730</i>	tcgcaaagattccgatgctaa
<i>BVRB_6g128480</i>	<i>BVRB_9g222410</i>	tttcacggattcctagacgat
<i>BVRB_6g133850</i>	<i>BVRB_3g056330</i>	tctgggaattcgtgc
<i>BVRB_6g133850</i>	<i>BVRB_4g095830</i>	cctaggaatccgtga
<i>BVRB_6g133850</i>	<i>BVRB_3g064800</i>	cctcgaatatcgtac
<i>BVRB_6g133850</i>	<i>BVRB_6g133980</i>	tctcgggatgtgcga
<i>BVRB_6g133850</i>	<i>BVRB_9g222410</i>	tctaggaatccgtga
<i>BVRB_6g133850</i>	<i>BVRB_5g125610</i>	tcttgaactgtgc
<i>BVRB_7g179610</i>	<i>BVRB_2g040090</i>	acctcgtact
<i>BVRB_7g179610</i>	<i>BVRB_9g224290</i>	tctcgtacc

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