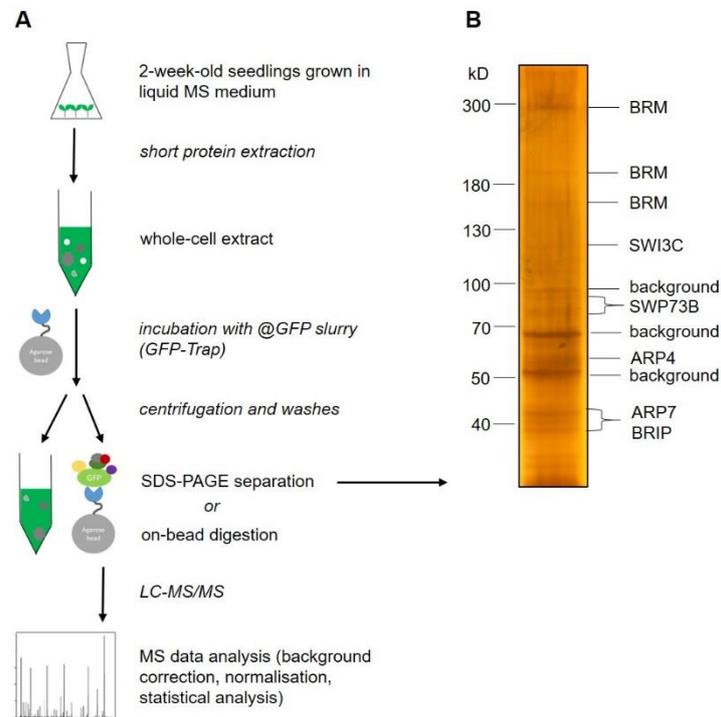
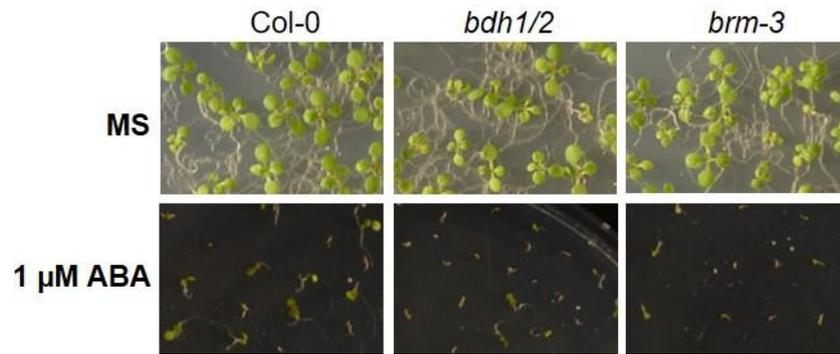


## SUPPLEMENTAL FIGURES AND TABLES

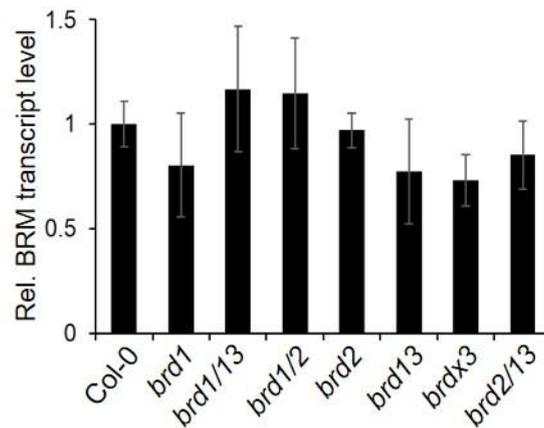


**Figure S1.** Isolation of SWI/SNF complexes from Arabidopsis seedlings. **(A)** Experimental setup of IP/MS analyses. **(B)** Silver-stained gel showing the proteins immunoprecipitated with BRM-GFP from the whole cell extracts of the *brm-1*/BRM-GFP line. Proteins were identified using LC-MS/MS.

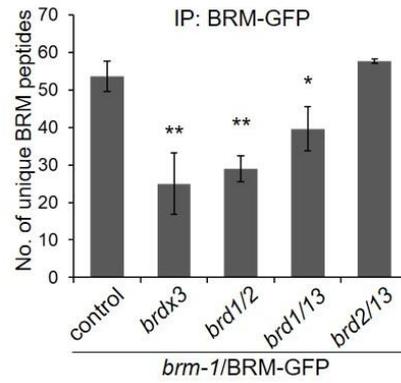




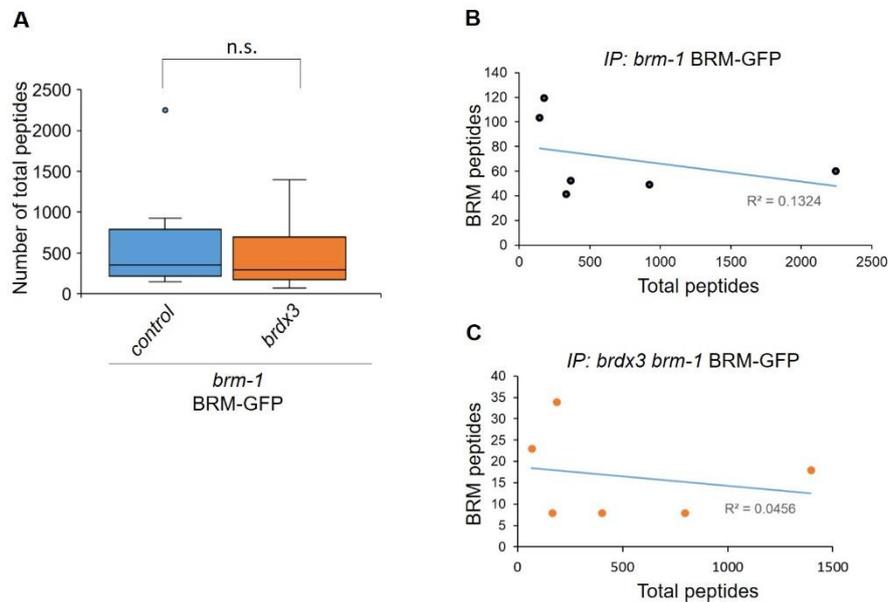
**Figure S4.** The *bdh1/2* double mutant shows hypersensitivity to ABA. Seedlings grown for x days on MS medium or in the presence of 1  $\mu$ M ABA are shown. Bar = 10 mm.



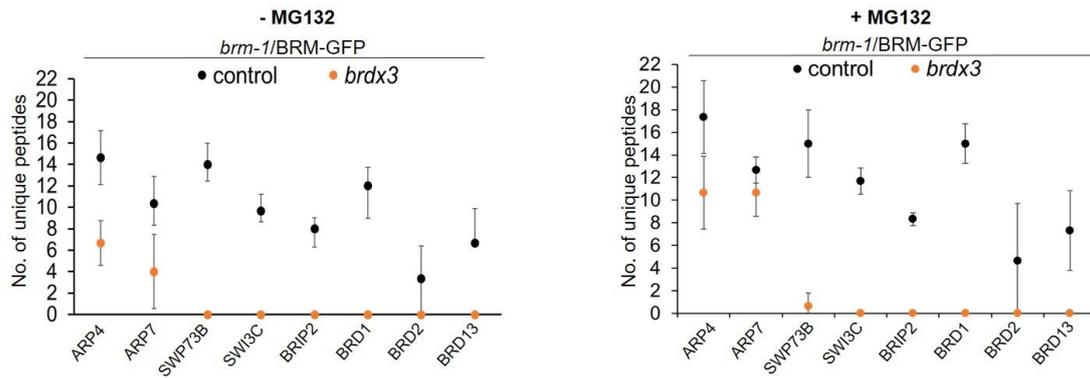
**Figure S5.** Quantitative RT-PCR analysis of BRM transcript levels in Col-0 wild-type and *brd* mutant lines. The *PP2A* housekeeping gene was used as normalization control. Means  $\pm$  SD from 3 biological replicates are shown. The transcript level in Col-0 is set to 1.



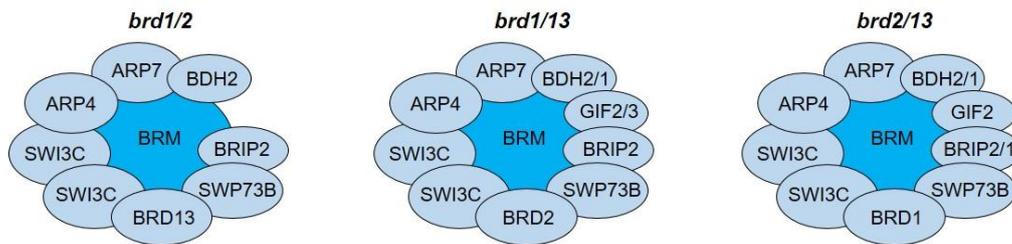
**Figure S6.** Mean number of BRM-derived peptides recovered by immunoprecipitation of BRM-GFP in the control and *brd* mutant lines. Means  $\pm$  SD are shown. Asterisks indicate significant differences from the control line (Student's t test, \* $P < 0.05$ , \*\* $P < 0.01$ ).



**Figure S7.** Comparison of total peptides and BRM-derived peptides detected in IP/MS experiments in the control line and *brdx3* mutant. **(A)** Mean number of total peptides. n.s., not significant (Student's t test). **(B, C)** The number of BRM-derived peptides does not correlate with the number of total peptides detected in the same experiments.



**Figure S8.** Peptides corresponding to the major subunits of the BRM complex identified in IP/MS experiments in the control and *brdx3* mutant. **(left)** Number of unique peptides recovered by immunoprecipitation of BRM-GFP in the control and *brdx3* mutant. **(right)** Number of unique peptides recovered by immunoprecipitation of BRM-GFP in the control and *brdx3* mutant after treatment with proteasome inhibitor MG132. Means  $\pm$  SD are shown.



**Figure S9.** BRM complex assemblies purified from 2-week-old *brd* double mutants after treatment with MG132.

**Table S1** Defects of floral organs in *bdh* mutants compared to WT.

	<b>WT</b>	<b><i>bdh1</i></b>	<b><i>bdh2</i></b>	<b><i>bdh1/2</i></b>
<b>Mean number of stamens</b>	6±0	5.8 ± 0.4	5.7 ± 0.7	5.2 ± 0.4
<b>Flowers with decreased number of stamens</b>	0 (0%)	5 (20%)	9 (36%)	19 (76%)
<b>Flowers with increased number of stamens</b>	0 (0%)	0 (0%)	3 (12%)	0 (0%)
<b>N</b>	25	25	25	25

**Table S2** Identification of SWI/SNF subunits in IP/MS experiments using BRM-GFP, SWP73B-YFP, BDH2-GFP, or BRD1-GFP as baits. The numbers of identifications are shown.

<b>Protein name</b>	<b>Gene</b>	<b>IP: BRM-GFP</b>	<b>IP: SWP73-YFP</b>	<b>IP: BDH2-GFP</b>	<b>IP: BRD1-GFP</b>
BRM	AT2G46020	8/8	2/2	2/2	2/2
SWI3C	AT1G21700	8/8	2/2	2/2	2/2
SWP73B	AT5G14170	8/8	2/2	2/2	2/2
SWP73A	AT3G01890	2/8	-	2/2	-
ARP7	AT3G60830	8/8	2/2	2/2	2/2
ARP4	AT1G18450	8/8	2/2	2/2	2/2
BRIP2	AT5G17510	8/8	2/2	2/2	2/2
BRIP1	AT3G03460	2/8	-	-	-
BRD1	AT1G20670	8/8	2/2	2/2	2/2
BRD2	AT1G76380	4/8	-	2/2	-
BRD13	AT5G55040	8/8	-	2/2	-
BDH1	AT4G22320	1/8	-	-	-
BDH2	AT5G55210	4/8	-	2/2	-
GIF1	AT5G28640	-	-	-	-
GIF2	AT1G01160	1/8	-	1/2	-
GIF3	AT4G00850	1/8	-	1/2	-
SYD	AT2G28290	-	2/2	2/2	-
CHR12	AT3G06010	-	1/2	2/2	-
CHR23	AT5G19310	-	-	2/2	-
SWI3A	AT2G47620	-	1/2	2/2	-
SWI3B	AT2G33610	-	1/2	2/2	-
SWI3D	AT4G34430	-	2/2	2/2	-
BSH	AT3G17590	-	1/2	2/2	-
LFR	AT3G22990	-	-	2/2	-
TPF1	AT3G52100	-	-	2/2	-
TPF2	AT3G08020	-	-	1/2	-
OPF1	AT1G50620	-	-	2/2	-
OPF2	AT3G20280	-	-	-	-
BRD5	AT1G58025	-	-	2/2	-
PSA1	AT1G32730	-	-	2/2	-
PSA2	AT1G06500	-	-	1/2	-
SHH2	AT3G18380	-	-	-	-

**Table S3.** Oligonucleotides used in this study.

Name	Sequence 5'-3'	Note
SALK_012963-F	ATCACCTCCTCAGGATCAAC	Genotyping of <i>brd1-2</i> mutant
SALK_012963-R	AAGGTGAAGACAACGACGAT	
GK219B04-02kz	TGAATTGTATTCCATTGCATTTGT	Genotyping of <i>brd1-5</i> mutant
GK219B04-03kz	TTGGAGTTGATGATGATGATCTGT	
SALK_025965-R	AATTAACGCGCCAAAATATC	Genotyping of <i>brd2-1</i> mutant
SALK_025965-F	CGCTGTTGGTTTCATTGTTTC	
SALK_208635C-F	GTCACGCTGATTCTGAGGAAG	Genotyping of <i>brd13-4</i> mutant
SALK_208635C-R	TGTATTGCATTGCATTTGAGC	
SALK_152173-F	CGACCGGAGAGATCTAAATCC	Genotyping of <i>bdh1-1</i> mutant
SALK_152173-R	ACTCCAAGGAATCAAATGGC	
SALK_053046-F	CGACAATTAACGATTAGTTTCGG	Genotyping of <i>bdh1-2</i> mutant
SALK_053046-R	ACGACGAATCGTTTATCGTTG	
SALK_046333-F	TCCTTGAGTAAGTGGACTGG	Genotyping of <i>bdh1-3</i> mutant
SALK_046333-R	GGAGGTCAAAAAGTTCCTTC	
SALK_060883-F	TCAACAGCAAGCATTACATGG	Genotyping of <i>bdh2-1</i> mutant
SALK_060883-R	TAACCGTCGCTGAGGTAAGTG	
SALK_042826-F	GCTGCGTTTCGACTAATCAAC	Genotyping of <i>bdh2-2</i> mutant
SALK_042826-R	CTCTGTA CTCCAGGGAAGCC	
SALK_029285-F	ACACAAGACATGTCCAAAGGC	Genotyping of <i>bdh2-3</i> mutant
SALK_029285-R	CAGTTTTTGCTTCCTGCAGAG	
Mut1L	GATTTCCCAAATTCGATGC	Genotyping of <i>brm-1</i> mutant
Mut1R	GGGCTCTATGCAAATGCCTCA	
Lba1	TGGTTCACGTAGTGGGCCATCG	Genotyping, T-DNA primer
Lbb1	GCGTGGACCGCTTGCTGCAACT	Genotyping, T-DNA primer

BDH1-RTF	GGTAGGTCCTCGACACGGTAC	RT-PCR
BDH1-RTR	GGCTTGCCTCTTTCCGGGTCG	
BDH2-RTF	ATGGAAGGTGTAGGATCGAG	RT-PCR
BDH2-RTR	TCATTCTTCAGTCCCTTCAG	
BDH1-qF	GTGCGACAAGATTTGAACGA	RT-PCR
BDH1-qR	CTAATGGCTTGCCTCTTTCCG	
BDH2-qF	TGGTAATTTGAATCTGGGACTGT	RT-PCR
BDH2-qR	GATCTAGAAGACGTCAAAGTGGA	
PP2A-F	TATCGGATGACGATTCTTCGTGCAG	RT-qPCR
PP2A-R	GCTTGGTCGACTATCGGAATGAGAG	
BRM-qF	TATCCTCCGGGTTCTGG	RT-qPCR
BRM-qR	CTCCGTTTCCGTTTTATCGT	
BDH1cds-Fattb	GGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGAAGGAGTTGGTGCACG	Cloning of BDH1 cds
BDH1cds-Rattb	GGGACCACTTTGTACAAGAAAGCTGGGT CTTCTTCTAATGGCTTGTC	
BDH2cds-Fattb	GGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGAAGGTGTAGGATCGAG	Cloning of BDH2 cds
BDH2cds-Rattb	GGGACCACTTTGTACAAGAAAGCTGGGT CTTCTTCAGTCCCTTCAG	