

**Table S3** Accessions used for the *HvPHYC* re-sequencing and haplotype analysis.

<i>Hordeum</i> species	Genotype*	Status	Growth habit	Origin	<i>HvPHYC</i> haplotype
<i>vulgare</i> subsp. <i>vulgare</i>	Arta	cultivar	winter	Syria	1
	<b>Asahi 5</b>	cultivar	n.d.**	Japan	4
	Azumamugi	cultivar	n.d.	Japan	7
	B.E. 22 (ASA)	cultivar	n.d.	Pakistan	2
	B1K-70-01	cultivar	spring	Israel	1
	B1K-70-02	cultivar	spring	Israel	1
	Bowman	cultivar	n.d.	USA	14
	<b>Bowman(eam5)</b>	introgression line	spring	n.d.	4
	Dicktoo	cultivar	n.d.	USA	15
	Erectoides 16	cultivar	n.d.	Sweden	1
	G-391 F	cultivar	spring	Italy	2
	G-413 I	cultivar	n.d.	Czech Republic	1
	Ghara 1 (1609)	cultivar	n.d.	Nepal	3
	Hamidiye 85	cultivar	spring	Turkey	1
	<b>Haruna Nijo</b>	cultivar	spring	Japan	4
	<b>Hayachinemugi</b>	cultivar	n.d.	Japan	4
	<b>Hayakiso 2</b>	cultivar	winter	Japan	4
	Hayakiso 3	cultivar	n.d.	Japan	1
	Indian dwarf	cultivar	n.d.	n.d.	1
	Indo Omugi	cultivar	spring	Taiwan	1
	<b>Ishuku Shirazu</b>	cultivar	spring	Japan	4
	Kagoshima Gold	cultivar	n.d.	Japan	1
	<b>Kaikei 84</b>	cultivar	n.d.	Japan	4
	<b>Kanto Nijo 3</b>	cultivar	n.d.	Japan	4
	<b>Kawasaigoku</b>	cultivar	spring	Japan	4
	Keel	cultivar	spring	Australia	1
	Kinai 5	cultivar	n.d.	Japan	1
	Kindoku	cultivar	n.d.	Sweden	1
	Kompolti	cultivar	n.d.	Hungary	2
	L871	cultivar	spring	Egypt	1
	Mari	cultivar	n.d.	Sweden	1
	Marthe	cultivar	spring	Germany	1
	Morex	cultivar	spring	USA	1
Mota 4 (1-24-13)	cultivar	n.d.	Ethiopia	1	
Mota 6 (1-24-15)	cultivar	n.d.	Ethiopia	1	
<b>Omugi 15</b>	cultivar	n.d.	Japan	4	

	Rum	cultivar	n.d.	Jordand	1
	<b>Saikai Kawa 24</b>	cultivar	n.d.	Japan	4
	Shiga Hayakiso 1	cultivar	n.d.	Japan	1
	Sladoran	cultivar	winter	Turkey	2
	Tadmor	cultivar	winter	Syria	1
	Tainan 2	cultivar	n.d.	Taiwan	1
	Turkey 759	cultivar	n.d.	Turkey	1
	Yarmouk	cultivar	n.d.	Lebanon	2
	Yercil 147	cultivar	winter	Turkey	2
	Zairai 1	cultivar	n.d.	Taiwan	1
	Zairai 2	cultivar	n.d.	Taiwan	1
	B1K-55-01	landrace	n.d.	Israel	2
	B1K-55-02	landrace	n.d.	Israel	1
	B1K-55-06	landrace	spring	Israel	2
	G-1573 A	landrace	n.d.	Syria	1
	G-398 H	landrace	n.d.	Ethiopia	2
	G-400 H	landrace	n.d.	Egypt	1
	G-404 H	landrace	spring	Tibet	3
	G-423 H	landrace	n.d.	Ethiopia	1
	G-434 H	landrace	n.d.	Ethiopia	1
	G-439 H	landrace	spring	Yemen	1
	G-440 E	landrace	n.d.	n.d.	1
	LR 1887	landrace	n.d.	n.d.	1
<i>vulgare</i> subsp. <i>spontaneum</i>	B1K-02-18	wild	n.d.	Israel	9
	B1K-03-07	wild	n.d.	Israel	1
	B1K-05-13	wild	n.d.	Israel	5
	B1K-08-13	wild	n.d.	Israel	5
	B1K-08-18	wild	n.d.	Israel	10
	B1K-13-01	wild	n.d.	Israel	2
	B1K-17-13	wild	n.d.	Israel	1
	B1K-21-02	wild	n.d.	Israel	1
	B1K-22-06	wild	n.d.	Israel	1
	B1K-22-10	wild	n.d.	Israel	1
	B1K-33-13	wild	n.d.	Israel	1
	HID-1	wild	winter	Iraq	1
	HID-10	wild	n.d.	Iraq	1
	HID-101	wild	winter	Syria	1
	HID-104	wild	n.d.	Syria	13
	HID-107	wild	winter	Jordan	2
	HID-109	wild	winter	Syria	12
HID-114	wild	n.d.	Lebanon	1	

	HID-122	wild	n.d.	Jordan	11
	HID-136	wild	winter	Iran	1
	HID-137	wild	n.d.	Turkey	13
	HID-140	wild	winter	Iraq	13
	HID-145	wild	n.d.	Israel	2
	HID-2	wild	n.d.	Iraq	1
	HID-24	wild	n.d.	Iran	3
	HID-257	wild	n.d.	Israel	1
	HID-301	wild	n.d.	Iran	1
	HID-309	wild	n.d.	Iran	2
	HID-330-1	wild	n.d.	n.d.	1
	HID-366	wild	n.d.	Iran	1
	HID-377-1	wild	n.d.	Israel	1
	HID-377-2	wild	n.d.	Israel	1
	HID-44	wild	n.d.	Iran	1
	HID-46	wild	n.d.	Iran	1
	HID-54	wild	n.d.	Turkey	2
	HID-55	wild	n.d.	Turkey	1
	HID-56	wild	n.d.	Turkey	1
	HID-70	wild	n.d.	Turkey	1
	HID-85	wild	n.d.	Turkey	1
	HID-96	wild	n.d.	Jordan	1
	HID-99	wild	winter	Syria	1
	HP-02-3	wild	n.d.	Turkey	1
	HP-03-2	wild	n.d.	Turkey	1
	HP-10-4	wild	n.d.	Turkey	1
	HP-10-5	wild	n.d.	Turkey	1
	HP-11-1	wild	n.d.	Turkey	1
	HP-13-2	wild	n.d.	Turkey	8
	HP-15-3	wild	winter	Turkey	6
	HP-15-5	wild	winter	Turkey	6
	HP-24-1	wild	winter	Turkey	1
	HP-26-1	wild	winter	Turkey	1
	HP-27-2	wild	winter	Turkey	1
<i>agriocrithon</i>	B1K-52-01	wild	n.d.	Israel	1
	HID-383-1	wild	winter	China	3
	HID-383-3	wild	n.d.	China	1

\* - genotypes carrying the wild-type *HvVRN1* allele are highlighted in bold; allelic composition at *HvVRN-H1* in other genotypes is unknown; \*\* - n.d., no data.