

Table S1. List of *Solanum* germplasm and results of the screening with *RB*-group specific SCAR markers RB-629 and RB-226.

Specific amplification		Accessions
RB-629	RB-226	
+	+	blb PI 243510, 275198, VIR 21266-432, 23174-510; ehr VIR 24373-425 (<i>ehr</i>); jam VIR 15203-349 (<i>jam1</i>); pnt VIR 19328-362; sto PI 365401, VIR 24263
+	-	blb PI 243506, 243508, 243509, 243512, VIR 21274-509-1, 21274-509-2, 23181-511; bst VIR 23201, 23201-344, 24197-345 (<i>bst</i>); cph VIR 4464, 16828-390 (<i>cph</i>), 23030-410; dms PI 161366, 175408, 230487, VIR 15173 (<i>dms</i>), 23315-277; ehr VIR 21301, 23276, 24572-520-2; fen VIR 23335-286 (<i>fen</i>), 23841, 24221; hjt PI 283103, VIR 15194-291 (<i>hjt2</i>), 21409 (<i>hjt1</i>), 24223; hou VIR 8818 (<i>hou</i>), 8818-278; jam PI 612455, VIR 22619-351 (<i>jam2</i>), 24397, 24397-359; pld VIR 23546-532 (<i>pld2</i>), 23553-334 (<i>pld1</i>); pnt PI 186553, 275234, VIR 19327, 21955, 21955-363 (<i>pnt1</i>), 24239, 24239-367 (<i>pnt2</i>), 24243-368 (<i>pnt3</i>), 24415, 24415-370; pta VIR 21547, 24417; plt VIR 16905, 23556-315 (<i>plt1</i>), 23561-316, 24298-318, 24410, 24462-321, 24463-322 (<i>plt2</i>); sph PI 320265, VIR 24255-380 (<i>sph</i>); sto CGN 17606, PI 161178, 205510, 230490, 255533, 255534, 310964, 338621, VIR 3360, 3336-324, 18925, 19196-325, 21618-327, 23652, 23652-329, 24420-330
-	-	bcp VIR 2830-273; blb PI 255516, 275191, 275200, VIR 19981-431, 21274-509-3, 23181-511-1, 23181-511-2; bst VIR 20105-378, 24197; crd VIR 24375-426; dms PI 160221, 161167, 161176, 175404, 186552, 218047, 275211, VIR 15174, 18521-275; ehr PI 255520, VIR 18086, 18224, 18225, 23277, 23279-414, 24206-419, 24207-420, 24572-520-3; fen VIR 24218-288; hjt VIR 19276-293, 24387; hou PI 161727; iop PI 230459; jam VIR 15203, 23397-352, 23398-353, 23399-354; pld PI 275237, 275238; plt VIR 8815, 24463; pnt PI 275233, VIR 4213; pta VIR 8816, 16889; trn VIR 23936-381; sto CGN 17607, PI 558477; ver PI 365404, VIR 23015-555, 23760-556
nd*	nd	avl VIR 20158-216; mcd VIR 21504-268, 23055-261, 5399-262, 5414-263

Abbreviations of *Solanum* species are as follows: *S. avilesii* Hawkes & Hjert. (avl), *S. brachistotrichum* (Bitter) Rydb. (bst), *S. brachycarpum* Correll (bcp), *S. bulbocastanum* Dunal (blb), *S. cardiophyllum* John Lindley (cph), *S. ehrenbergii* Bitter Rydb. (ehr), *S. demissum* Lindl. (dms), *S. fendleri* (fen), *S. hjertingii* Hawkes (hjt), *S. hougasii* Correll (hou), *S. iopetalum* (Bitter) Hawkes (iop), *S. jamesii* Bitter (jam), *S. microdontum* Bitter (mcd), *S. papita* Rydb. (pta), *S. pinnatisectum* Dunal (pnt), *S. polyadenium* Greenm. (pld), *S. polytrichon* Rydb. (plt), *S. stenophyllidium* Bitt. (sph), *S. stoloniferum* Schldl. and Bouchet (sto), *S. tarnii* Hawkes & Hjert. (trn), *S. verrucosum* Schtdl. (ver). CGN – The Centre for Genetic Resources, the Netherlands, PI - NRSP-6 Potato Genebank, USA and VIR – the Vavilov Institute of Plant Industry, Russia. Accession numbers with sequenced RB-629 marker and corresponding sequence names in parenthesis as shown in Fig. 1 are italicised.

* - not determined

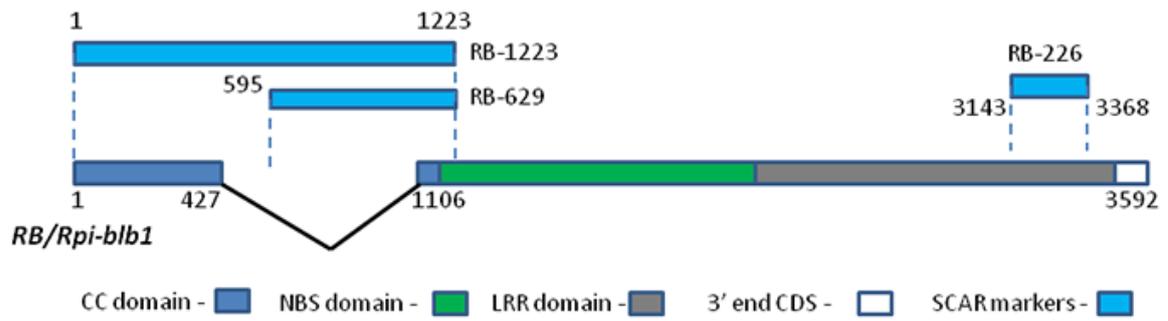


Figure S1. Schematic structure of the *RB/Rpi-blb1* gene and locations of SCAR markers. Numbers are nucleotide positions in base pairs (bp) in relation to the full-length *RB/Rpi-blb1* gene sequence (AY426259, 3529 bp). Lines angled downwards indicate the position of a 680-bp long intron.