

■ **Table S1** Detailed sample information for *P. dulcis*, *P. persica*, and related species used in analyses.

Species	Sample ID	Accession and/or Cultivar	Avg. Depth	Origin	Source	Ref
<i>P. dulcis</i>	PD01	DPRU 2578.2, #53	30.46	Ukraine	SRR4036105 ^w	1 ^y
	PD02	Tardy Nonpareil	34.59	USA	SRR4036108 ^x	1 ^y
	PD03	DPRU 1791.3, BE-1609	17.93	Turkey	SRR4045225 ^w	1 ^z
	PD04	DPRU 2374.12	16.77	Iran	SRR4045227 ^w	1 ^z
	PD05	DPRU 1456.4, Badam	15.90	Pakistan	SRR4045228 ^w	1 ^z
	PD06	DPRU 2301, Tuono	17.23	Italy	SRR4045226 ^w	1 ^z
	PD07	DPRU 1462.2	19.38	Pakistan	SRR4045229 ^w	1 ^z
	PD08	DPRU 1207.2	14.47	Uzbekistan	SRR4045222 ^w	1 ^z
	PD09	DPRU 2331.9	17.17	China	SRR4045224 ^w	1 ^z
	PD10	DPRU 0210, Languedoc	20.63	France	SRR4045223 ^w	1 ^z
	PD11	S3067	6.64	Spain	SRR765861	2
	PD12	D05-187	4.72	Spain	SRR765850	2
	PD13	Lauranne	13.00	France	SRR765838	2
	PD14	Ramillete	6.69	Spain	SRR765679	2
<i>P. persica</i>	PP02	Yumyeong	22.37	Korea	SRR502994	3
	PP03	Shenzhou Mitao	11.19	N China	SRR502993, SRR502992	3
	PP04	Sahua Hong Pantao	14.46	S China	SRR502991, SRR502990	3
	PP05	Quetta	12.64	Pakistan	SRR502989, SRR502987	3
	PP06	Oro A	25.78	Brazil	SRR502986	3
	PP07	IF7310828	12.75	Italy	SRR503001, SRR503000	3
	PP08	GF305	18.68	France	SRR502983	3
	PP09	F ₁ Contender × Ambra	15.57	Italy	SRR502997	3
	PP10	Earligold	35.40	USA	SRR502996, SRR502995	3
	PP11	Bolero	22.42	Italy	SRR501836	3
	PP12	F8,1-42	11.88	USA	SRR068361	4
	PP13	Georgia Belle	13.13	USA	SRR068359	4
	PP14	Dr. Davis	14.44	USA	SRR068360	4
	PP15	Lovell	37.36	USA	SRR40365107 ^x	1 ^y
	<i>P. cerasifera</i> (outgroup)	PC01	DPRU 0579, Myrobalan	35.02	USA	SRR40365106 ^w

Source: newly resequenced samples provided by ^wUnited States Department of Agriculture National Clonal Germplasm Repository (Davis) or ^xUniversity of California, Davis; **Reference:** ¹this study (resequencing of samples performed at ^yBGI or ^zUC Berkeley), ²Koepke *et al.* 2013, ³Verde *et al.* 2013, ⁴Ahmad *et al.* 2011