Table S1. Summary of the identified loci associated with seed per silique (SS) and thousand-seed weight (TSW) in rapeseed by QTL and GWAS studies.

Trait	Marker name	Chromosome	Marker position (Mb)*		Reference
			Start (Mb)	End(Mb)	
SS	Na14-G06	A01	8.24	9.24	[1]
SS	cnu034	A09	1.2	2.2	[1]
SS	MD21	A05	0.81	1.81	[2]
SS	CB10357b	C01	17.36	18.36	[2]
SS	CB10536	C01	35.27	36.27	[2]
SS	SCC9005	C09	44.59	45.59	[3]
SS	SRC9022	C09	46.03	47.03	[3]
SS	BnGMS464	A01	21.03	22.03	[4]
SS	B060E11-1	A02	2.15	3.15	[4]
SS	SA79	A05	3.61	4.61	[4]
SS	FITO035	C06	28.64	29.64	[4]
SS	CB10632	C06	33.75	34.75	[4]
SS	niab71	A01	1.32	2.32	[5]
SS	cnu142	A01	1.45	2.45	[5]
SS	niab096	A01	1.99	2.99	[6]
SS	IGF9014b	A01	6.31	7.31	[5]
SS	IGF2071e	A01	17.54	18.54	[5]
SS	cnu276	A03	15.23	16.23	[6]
SS	cnu256	A04	16.68	17.68	[6]
SS	BRAS063	A05	3.32	4.32	[6]
SS	pX116a	A07	5.22	6.22	[6]
SS	cnu489	A08	0.28	1.28	[6]
SS	pW119	C02	1.44	2.44	[6]
SS	sR12095	C02	1.74	2.74	[5]
SS	sORH13	C05	2.25	3.25	[7]
SS	CB10010	C06	20.48	21.48	[5]
SS	AP1a	C06	27.15	28.15	[6]
SS	pW233b	C09	14.44	15.44	[5]
SS	Na12G04	C09	33.51	34.51	[5]
SS	CB10288	C09	39.39	40.39	[6]
TSW	Ra3-H10	A05	19.45	20.45	[8]
TSW	cnu296	A09	27.13	28.13	[8]
TSW	CB10597	A01	2.5	3.5	[2]
TSW	MR12	A03	17.65	18.65	[2]
TSW	CB10154	A03	20.24	21.24	[9]
TSW	MD21	A05	0.81	1.81	[2]

TSW	MR119	A05	5.74	6.74	[2]
TSW	Na12B02	A07	5.02	6.02	[9]
TSW	Na12E11	A07	11.78	12.78	[9]
TSW	BRAS020	A09	5.37	6.37	[9]
TSW	Ol10B11	A10	0.41	1.41	[9]
TSW	Na12E09	A10	4.78	5.78	[9]
TSW	CB10357b	C01	17.36	18.36	[2]
TSW	CB10536	C01	35.27	36.27	[2]
TSW	Na12E04b	C02	4.47	5.47	[2]
TSW	CB10234	C06	13.14	14.14	[2]
TSW	Ol10F08	C06	20.03	21.03	[9]
TSW	CB10597	A01	2.5	3.5	[9]
TSW	CB10116B	A09	33.35	34.35	[9]
TSW	CB10357b	C01	17.36	18.36	[9]
TSW	Na12E04b	C02	4.47	5.47	[9]
TSW	BnGMS103	A02	11.11	12.11	[10]
TSW	CB10471b	A02	15.86	16.86	[10]
TSW	sR0282R	A07	1.64	2.64	[11]
TSW	B060E11-1	A02	2.15	3.15	[12]
TSW	B070J05	A02	2.41	3.41	[12]
TSW	CB10540	A02	22.11	23.11	[12]
TSW	cnu252	A04	15.38	16.38	[12]
TSW	BnGMS608	A07	19.79	20.79	[12]
TSW	niab028	A09	11.43	12.43	[12]
TSW	MR156	A10	0.5	1.5	[12]
TSW	Na12E09	A10	4.78	5.78	[12]
TSW	FITO043	C06	28.64	29.64	[12]
TSW	CB10028	C08	36.35	37.35	[12]
TSW	pX136bE	C07	2.53	3.53	[13]
TSW	pW186cH	A07	0.86	1.86	[14]
TSW	pX126fH	A07	0.88	1.88	[13]
TSW	pW162eE	A07	7.85	8.85	[14]
TSW	pX111bH	C03	9.25	10.25	[14]
TSW	pX106gE	C04	48.59	49.59	[14]
TSW	pW104dH	C07	36.13	37.13	[14]
TSW	pW198aE	C09	43.33	44.33	[13]
TSW	CB10597	A01	2.5	3.5	[15]
TSW	sN3523R	A01	18.77	19.77	[15]
TSW	CB10095	A01	6.81	7.81	[6]
TSW	BRAS078	A01	8.06	9.06	[5]
TSW	IGF2071e	A01	17.54	18.54	[5]

TSW	FITO40	A02	1.61	2.61	[6]
TSW	pX141eE	A03	4.85	5.85	[5]
TSW	pX141eE	A03	4.99	5.99	[6]
TSW	pX141eE	A03	5.01	6.01	[5]
TSW	CB10427	A03	7.49	8.49	[6]
TSW	IGF3125a	A03	14.29	15.29	[5]
TSW	Ol11G11a	A03	14.78	15.78	[6]
TSW	cnu270	A03	15.86	16.86	[6]
TSW	cnu002	A03	16.14	17.14	[5]
TSW	cnu215	A03	17.92	18.92	[6]
TSW	cnu371	A03	20.77	21.77	[6]
TSW	pX129b	A04	4.25	5.25	[6]
TSW	sN13034	A04	7.86	8.86	[6]
TSW	sN2025	A04	11.52	12.52	[6]
TSW	cnu256	A04	16.68	17.68	[5]
TSW	sN12353a	A05	4.4	5.4	[6]
TSW	IGF0149c	A05	8.02	9.02	[6]
TSW	cnu325	A05	9.25	10.25	[6]
TSW	pW247	A05	20.48	21.48	[5]
TSW	IGF1139e	A06	3.31	4.31	[5]
TSW	BRMS030	A06	5.12	6.12	[6]
TSW	cnu063	A07	0.76	1.76	[5]
TSW	sR0282R	A07	1.64	2.64	[5]
TSW	IGF2021z	A07	4.71	5.71	[5]
TSW	BRAS023	A07	10.11	11.11	[6]
TSW	niab90	A08	12.18	13.18	[5]
TSW	IGF1108c	A08	14.1	15.1	[6]
TSW	Na10A08	A09	17.18	18.18	[6]
TSW	pX150	A09	24.48	25.48	[6]
TSW	sN8502	A10	1.94	2.94	[7]
TSW	Na10D07	A10	10.96	11.96	[7]
TSW	Na12C08	C01	21.93	22.93	[6]
TSW	pW119	C02	1.44	2.44	[6]
TSW	sR12095	C02	1.74	2.74	[5]
TSW	pX141aE	C03	6.52	7.52	[6]
TSW	pX141aE	C03	6.68	7.68	[6]
TSW	pX141aE	C03	6.7	7.7	[6]
TSW	IGF0117a	C03	20.46	21.46	[5]
TSW	sORH13	C05	2.25	3.25	[7]
TSW	Ol10B02	C05	2.78	3.78	[5]
TSW	sR12387	C06	29.49	30.49	[6]

TSW	pW134	C06	29.58	30.58	[6]
TSW	cnu400	C07	1.63	2.63	[5]
TSW	pW179b	C07	40	41	[5]
TSW	CB10092	C08	36.04	37.04	[7]

*Based on Raboanatahiry et al. [16].

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