Table S2 Self-compatibility primers designed based on the sequences of the *SLG, SRK*, and *SP11* genes

Primer	Sequence(5'–3')	Length(bp)	Source	S haplotype	Species
PS5	ATGAAAGGCGTAAGAAAAACCTA	23	*SLG-8*	Class I	*B. rapa*
PS15	CCGTGTTTTATTTTAAGAGAAAGAGCT	27	*SLG-6*	Class I	*B.oleracea*
PK1	CTGCTGATCATGTTCTGCCTCTGG	24	Second exon of *SRK* gene	Class I	*B.oleracea*
PK4	CAATCCCAAAATCCGAGATCT	21	Fifth exon of *SRK* gene	Class I	*B.oleracea*
PS3	ATGAAAGGGGTACAGAACAT	20	*SLG-2A*	Class II	*B.oleracea*
PS21	CTCAAGTCCCACTGCTGCGG	20	*SLG-2A*	Class II	*B.oleracea*
Sal-SLGI	[f]ACTTCGTGATGCGAGACTCC	20	*SLGI*	Class II	*B. rapa*
	[r]CCGCGTCTTCCTCATACACC	20	*SLGI*	Class II	*B. rapa*
Sal-SRKI	[f]GATTATCTCGTGTCTGAATG	20	Second intron of *SRK* gene	Class II	*B.rapa* and *B.oleracea*
	[r]GGTAATGTCGAATCTCTCCT	20	Fifth exon of *SRK* gene	Class II	*B.rapa* and *B.oleracea*
Sal-SLGII	[f]GGGATTGCCTGAGTTTGTTC	20	*SLGII*	Class II	*B.rapa* and *B.oleracea*
	[r]TGTCGCAATAAGCATAAGCC	20	*SLGII*	Class II	*B.rapa* and *B.oleracea*
Sal-SRKII	[f]TACGTCAGATTGAATGCTGCTG	22	First intron of *SRK* gene	Class II	*B.rapa* and *B.oleracea*
	[r]GTAACACCACCTCGTTCATTAG	22	Second exon of *SRK* gene	Class II	*B.rapa* and *B.oleracea*
Sal-SP11II	[f]TTGCATAGAGTAACCGTCTC	20	*SP11* gene	Class II	*B.rapa* and *B.oleracea*
	[r]CCGTCGTATATTGCATAGAGTA	22	*SP11* gene	Class II	*B.rapa* and *B.oleracea*

[f] Forward primer sequence

[r] Reverse primer sequence