Supplementary Table 1. The detailed information of 5 HRM markers developed in previous study (Geum 2019).

No.	Original name[z]	Renamed[y]	Forward primer (5'→3')	Reverse primer (5'→3')
1	HRM138041708	HRM100473942	GGGCATTTTTCTTTTGAGACTG	GCAGTAAAGCAAGTGTGATAATCC
2	HRM138661370	HRM101096844	CCAGTTTCTGGTTTGATAAATGGA	CATTTCCTCCTCTCTTTCTTCCCA
3	HRM148987834	HRM145232686	TGAACCTTTACTCCTAGAAGATGC	TGGTGAATCAAGACGGTGACA
4	HRM148520480	HRM145700040	TGGGTTGTGACTCTCATGAT	CGGTGTTGGGTACTTGGACT
5	HRM145498219	HRM145498219	TGGGGGAAACTTTTGAGAGCT	TGCAGGTTAGTCTAGAGCTTCT

[z]The name was made based on the physical position of chromosome 1 of pepper reference genome (CM334 var. 1.55).
[y]The name was made based on the physical position of chromosome 1 of pepper reference genome (CM334 var. 1.6).

Supplementary Table 2. A list of 128 primer sets for HRM analysis.

No.	Marker name	Forward primer (5'→3')	Reverse primer (5'→3')	SNP
1	HRM101096843	TTCTGGTTTGATAAATGGACAAGA	TCCTGTACTTCATTTCCTCCTCTC	A/G
2	HRM101690299	GTCTAGAATACGATCCCGGTTATG	TTTTGGATTTTTCATCTGGTGTC	A/T
3	HRM102765760	TTTTGCATGATTTTTACATCTCGT	ATCATGTGTTCCTAACGTGCTAAA	G/A
4	HRM102862039	GAAGGTACTACCCTGAGAAAGCAA	AAGGTCCATCGTAATAGGGGTAAT	G/A
5	HRM102863976	ATTACGATTAGAGGCTTTGTCAGG	TGCCAACTCTAATACCAGTACCAA	T/C
6	HRM102864126	ATTACGATTAGAGGCTTTGTCAGG	TGCCAACTCTAATACCAGTACCAA	G/A
7	HRM102869991	GACACTTGAACTCTGTGCTCTGAT	TATGCCAGTAGAAAGGTTAGCTTG	T/C
8	HRM102874141	CCCGTGATGTATACTACTTGCTTG	GCCACTATAGAGTCACCCACTAGG	C/T
9	HRM102877712	TTTCTTGAGGAGTTGAAACAGATG	TTTGCTTTAAAAACCTATCCATGA	T/G
10	HRM102877765	ACAATTGAGGATGTCAATGGTATG	TGCATAGTATAGTGAAGGCTCTGG	A/T
11	HRM102881349	TCCACTACAACTCATGCTACAGGT	TTCTCATTTTAAGCAATGAAAGTGTT	G/T
12	HRM102881392	CCGAGGACATGAAAACATTCTAT	AAAACATACCCAAAATGCATCATA	G/A
13	HRM102881407	CCGAGGACATGAAAACATTCTAT	AAAACATACCCAAAATGCATCATA	G/A
14	HRM102881602	TTTGGATGCTAAGTTCATGAAAAA	GAATATGCTTTGATGACGAACAAG	C/T
15	HRM102893339	TCCAATGTTGCTCCATGATATTAG	CCAAGTCATTGAAAAGTGAAAAAT	A/G
16	HRM102896136	GTTGATCATGTTCCTAGTGTGGAG	TATAAGACCTGCATCAAACCATGT	T/C
17	HRM102897000	TGATGGTGATTGTTTGAGAGAGTT	TGTACCTAATGCCACACTACTCGT	T/C
18	HRM102902682	GCGTTATGAGCTTGTTATCATTTG	AAAACCTTGGAGTTAATTTGATGC	C/T
19	HRM102908010	AATGGGATATCGAATCCTACTTGA	TTAAAGTTTCTCACCAATGCTCTG	G/A
20	HRM102911758	TTCCCCATGTGATATTTATTGAGA	GAAGAATGGTCCTTTACCTTGAGA	C/T
21	HRM102931202	TTGGTTAATGTTTTTGGAATGATG	ATCCCATTCACTATACCCATGC	G/A
22	HRM102953239	ATTTCATGGTTAAAGAAGGCATTG	TACCCTTTAGAAAAATTGGTGGAG	G/A
23	HRM103023752	TGATCTTACTAGGACTGGAGAGCA	GACTATCCTTAGCCAAGTCCTCAA	C/T
24	HRM103033879	TCTCTGGTCATTCAGTCTTTCGTA	TACCACAGAGAACTTGTTCAAAGC	T/C
25	HRM103042892	TGCTGATGCTTAATATACCAGGAA	GTGAAAACCCTCATTTCTGTTCTT	T/C
26	HRM103045272	AGGGTGACTATACGGGTCATAGAA	GACACCTTACGATTTCCACCTTAC	A/G
27	HRM103046692	ATGGAATTAGGACGATCAAGCTAC	GACCCTACATCACATGAGGATACA	G/A
28	HRM103047458	TTGTCATGTGTCCGTACTTCTTTT	TCTTAACACGCTCAAAAGTCATGT	C/T
29	HRM103062859	AGATCAGAGTAGTTTGAGCATGGA	GACATAGAAGGCCTATTCCCCTAC	G/A
30	HRM103070611	ATAGGCTCAAAGGATTAGCTTGG	GAATTTGTAACACCCCAAAATCTC	T/C
31	HRM103071336	TCCTGATTCTGTGGAACTAAACTG	ATACTCGGGGTATGTTGGTTAGAT	A/G
32	HRM103076980	TGAAGGATGATTATGCTGACTCTG	GAAGTATGGTAAAAACCACCAAGG	A/G
33	HRM103077248	GAGGATTTTGGGTAAAACTGAGAA	CAGGCTCATAGTTCATGCTTAAAA	T/C
34	HRM103078167	ATGCCATATAGCCTCTTGTCCATA	CAATAGAGCCCTAGGAAGTCTGAA	T/C
35	HRM103078209	TTCAGACTTCCTAGGGCTCTATTG	TTGTGGTCCTTTGAGATTATGAGA	G/A
36	HRM103084191	ACACAATCCTAGTGTTCACCAATG	TGGATCTCAGATGCTGTAATCAAT	T/G

Supplementary Table 2. Continued.

No.	Marker name	Forward primer (5'→3')	Reverse primer (5'→3')	SNP
37	HRM103085499	GATAGCTATGGTTGCATCTTCTCA	ACATACCTGAGATGCACTAAGCAC	G/A
38	HRM103087430	AAATCAAGTTCCAAAATTCCAAAA	GTAGCACTGGAAGTCTACCCTTGT	T/C
39	HRM103087926	CTAAAGAGGTGGCCAACATTAGAT	ATGGATCAACAATTAAATCCCAAA	G/A
40	HRM103088013	TGGTAATTTGGGATTTAATTGTTG	TTTTGAGTCTCAGGATGTGGTATT	T/C
41	HRM103092972	TCCCAAATTAACCATCTCCTTTAG	GTTAAGAACCCGCTTGTATGCTAT	A/G
42	HRM103208005	AATTTGAAACTCGTGGGTAATCAT	TTAAGGTATCTGGGGTTTTTCAAC	G/A
43	HRM103255158	TAAATGGTTCAGGATGGTTCAAA	AATATTTAGGGGGTTCCCATTTAC	G/T
44	HRM103266683	ATCATAAAAGGGTCTCCATGACCT	ATGGTTTAGTTGGTTGAAAATGGT	T/G
45	HRM103275816	AGTTGGACTTTAGATACCCGACAC	CCCCTATCTTTGTCCACTTCTTTA	A/G
46	HRM103292478	GATTAGTTGCACTCATGCTATGCT	GAACCTCCCTCCCACTAAATAACT	T/G
47	HRM103316460	TTGTCCCTTTTTAACTTTTAACGTG	AAATTTGGAATCTTCACAATCTTTG	G/A
48	HRM103391320	TCTCACTACGATCAAGCGTAAATC	AGTGGTAAGGCCTGTTATGCTTAG	G/A
49	HRM103423396	TTCAAAGAGATTTGGGAACTAAGG	CAAACCAACTACCACCATAGTCAA	T/G
50	HRM103424736	TCCATGAGGATATGTTATGAGTCG	ACCTTATGACTCCACAAACCAACT	T/C
51	HRM103425161	TTTACTGGTTGTTTGCTGTTTCTG	CGTAAGCCCTAGTGAACATAATCC	G/A
52	HRM103425979	TGATTTTCTTCAGAATAGGTGACG	CAAATTTTCCTACCGAAGAATCAG	T/C
53	HRM103434662	GGGCATCATTAGCTATCATTAACA	TGAAAACCCTAAGTCTTCTTGACC	A/G
54	HRM103451642	ACTTCCATCAGTTGTGACTTTGAG	TTTCTATAATCAGATCCTTCAAAAGC	T/G
55	HRM103451796	CTCCGATTTCCAAGTCTAGATACG	TGTAAGATGGAAGTGTTCAACTGG	C/T
56	HRM103452693	CAAAGAGCCAATGTTTTTGTGTTA	GGAAGATTTCTTGCACTTGTTGTA	C/T
57	HRM103458195	TGACTTATAGACGACCGACAGGTA	AAGTAGGTATCAAATCCTCGAACG	T/C
58	HRM103470051	TAAGAGTCAAAACAACAACCAACC	TTGAATTCTTTTGGTAACATTTGG	A/G
59	HRM103470465	TATCCTAAGGAACCTTTGGGCTAT	TGACTTTAGCTTTCCCTCAGTTTT	C/A
60	HRM103478059	ACAATTTTGTGCCTTGACTGATT	TACTGCAAAAGATGGAAATCAAGA	G/A
61	HRM103480810	TGTAATCAATGATGGGAACAAGAG	GAATGTTAGTCGATTTGGGCTTAT	C/G
62	HRM103480835	AGCATGGGCTTATTTTGTTTCTAT	CCTCCACTAACCTGACAAATATCC	C/T
63	HRM103480863	ATTCAGAGGAATATTGTCCCAGAG	AAAGATCTGGTTGTCCATCATTTT	G/A
64	HRM103488191	GCCTTAAGGGTTGTATTAGGTCAA	ATCATGGTGTAGTTCTTTTGAGCA	C/T
65	HRM103488379	AATTGTGCACACTGATCATACAAA	CCTTTTCTATCCTTGACCTCAAAA	G/A
66	HRM103488607	TTGAAGATGGTCTTGAGATTGATG	ATCTTCTGGGATTAGATCACTTGC	A/G
67	HRM104191293	TCCCATTCAACAAATTTTATGTCA	CTTTGAGAGGAAACCCTAATTTGA	G/A
68	HRM104192002	TGATCCATAGAACTCAGTCAGTCA	CATCTAAATAGACGCTGAACATGG	C/T
69	HRM104193093	TCCAGTCTCTGCAATCAGAGTTAG	TGTCTGAATAAGGAGTTGATTGGA	G/A
70	HRM104199346	TCCATGATTTTTAGATGTGTTGATG	TTGTACATGAATGGGGATTTCATA	T/C
71	HRM104200762	GTCCCATCAACTCCTTATTCAGAC	AAACATAACATCTGGATGGGGTAT	T/C
72	HRM104208283	GTACTGTCGATTCAGGTCTCAAAG	TCCAGACTCAATGACATAGGAAAA	A/T
73	HRM104209951	CCACTCCATAACTTTCCTACGACT	GCAAAAATCCTTGATTTGTAGCTT	T/C
74	HRM104212623	CTTGGTAGTTTCAACCTCCTGAAT	GTCCTCAATCAAGCCTATAGGAAA	T/C
75	HRM104215541	TCTTGCGGTTTCTATAAAGTGATG	TGGCTACAGATCTATTCTTTGGTG	C/A
76	HRM104220169	CCTCAGTGAGTTACCCTTTTAGATG	GCAGTTTACAAGTAGGTGCATCAG	C/T
77	HRM104220174	GTGGTTACCCTTTCCAGTAGGTTA	AGGTGGATAAGCTCCTTGTCTTTA	G/A
78	HRM104220886	TATGACAAAGTTGGATTTGTCCAC	ATCAGTGGCATAAACAAAGCCTAT	T/A
79	HRM104224853	GCCTTTAACATAAAGATCCTGCAT	GGAAGTGGTTATCTATGGCATTTC	T/C
80	HRM104225771	GGGCTAGTAAATTACCCTCCAGAT	GTATACTCCGAACAGCTTCAGGAT	A/G
81	HRM104226674	CAGATAGGTTACCCTCGTCAGTG	GTGAGCATCTTTAAAAACCCATCT	G/A
82	HRM104226691	CAGATAGGTTACCCTCGTCAGTG	GGATAAGCTCTTTGTCTTCGAACT	G/A

Supplementary Table 2. Continued.

No.	Marker name	Forward primer (5'→3')	Reverse primer (5'→3')	SNP
83	HRM104227723	AGGCAAACAATCCTTGATTTGTAG	CGCATCCGTATAAATGGTTTTACT	T/C
84	HRM104228853	TGGTTTAAGAGAAGTGGAAAGGAG	GTAAATTCAAGACTTTCCCATTGC	C/A
85	HRM105020091	ATATTGTGAATTTTGAGGGTTGGA	CAATTCTTTCAAGCTTAACCCATC	C/T
86	HRM106047935	CTAGGATTTTATCAAAGGCTTCCA	GGAAAGTAAACTTGAGGGTCAAAA	C/A
87	HRM109369165	CCTATGTGAATGAAAAATGCCATA	TTCTTGAATACATGACTAACATCCA	T/A
88	HRM112322724	TTCACCTGGCTAACTTATTTGTTG	TACCTTCACCTCAAGCATAAATCA	C/T
89	HRM113345159	GAAATTGAGTCTTTTTCCCTCAAC	GAAGGAGCTTGAATTTTGTTCTTG	C/T
90	HRM113512184	TAATGTTAAGTAGGGATGGCAATG	ATTTAAACCCGCATATACCCACA	T/C
91	HRM115395655	CCCATCGGTTTAATAAAGAGCTAA	TCAAACACTAGGTATGCATGGACT	A/C
92	HRM117614119	CTCCTCCATGATGCTTTTCTATTA	CTCCTCCATGATGCTTTTCTATTA	C/T
93	HRM117622823	GCTAAAAGTGGGTGACTAGGGATA	CATTGGTCTCTCAAGGCTAATTTT	T/C
94	HRM117667256	TGAGGATGTTGTAGCTTAGGAGATT	TCCTCTAACTCAAACTCACACACC	A/G
95	HRM117868894	ATGGCAATATTATCCCAAGTGTTT	GTGTTAACCTTCCTCCAAGTCCTA	T/G
96	HRM118480777	TGAGAAGAACTACCCATCGTATTG	TGAGAGAGAATGAGAACCAGAATG	A/C
97	HRM118704730	TGCATCCTAAATTCAGTTTCCTTT	GAAGATGGGTTAGCGGGTAAAT	A/G
98	HRM119018960	TAAATCTCAGATCGGCTATCATCA	GGGCTTTCGCTAGTTTAAAAGATA	T/C
99	HRM119042778	CCAGCTAAGACATTAGGTGATGAA	ATTTTGTGTCTGCTTATGCTTCTG	T/C
100	HRM119308595	CAAAACAACTTCAACCAATTTCAC	TTGCTGATTGTTACATGTTTTGTG	C/A
101	HRM119655681	GATACTATGCCGGACTCACCTAGT	CCAATGTGTAGAATGCAAAGGAG	T/C
102	HRM119764966	AAGGATGACAAAATAAGCCAAAAA	CAGTTTATTGATAATTGGGGTTGG	T/C
103	HRM121574881	CAACATACATCTCGTACCCTAAAA	ATTGGGTATGATTTAGGGACTCCT	T/C
104	HRM121624913	TATGCGGAAAAACAATTGATAATG	GGAGGATTTCAGATATTCAGACAGA	A/G
105	HRM121662345	CTTCCCTTGCATATCCTAGACAGT	AAACCAGTCCACTCTAGGTTTGAT	G/T
106	HRM121737822	CGTGATCAACTTTGAAGGTAGTTG	GGAGATCCATCTTTTCTCTCATAAA	C/T
107	HRM121772758	GCCCAAGCTAGATATATTTTCATCA	GTGTTCAAAAAGGATACGGAGAGT	A/T
108	HRM124717560	CTCTACCATCATTCACACCTTGAC	CGAAGAGTTAGAAAGGGGCCTAGT	G/A
109	HRM125402305	TTTCAACCACCCTATCCTAATACG	AATTTCAAGCAAGAAAAAGGTACG	G/C
110	HRM127519298	CCTAGGTTGTCTGAAGTTGTGTTG	TCTCACTCATAAGTGTGGCTTTTT	G/A
111	HRM127545189	TATAGGTTCAGGTGCTCAGTCTCA	CCACTTGATAAAAAGGAAGTCTGAA	T/A
112	HRM127979476	TGATTCAGCTTGGTTAATGGAGTA	TCTTCAGAAGGTTACGGTGGTTAT	G/C
113	HRM128154775	TCGGCACTAATTGATTCCATATAC	TCTTTCCGCTCCAGGTAATTATAC	C/T
114	HRM128593798	CCCCAGTTTAAAGTTGTTTGAGAT	CACAAGAGAAGATTGACATCCAAC	T/C
115	HRM129287831	CTAGGATCAGGAAATAGGTGGCTA	ATCGAAACACCTAGGTCAGTAAGG	T/C
116	HRM129438776	GTAGCTTTCACCACCCTATCTCAT	TCTGACTTAGACCCGGTAAATGAT	T/C
117	HRM130294270	GACAACTGTGGGTAACCCTTATCT	CAGCATAGGTTAAGACATCGACAC	C/A
118	HRM130521863	GTACACTCCACTCATTACACTTGG	CACACCCAAACTATCATATTGACC	A/G
119	HRM130790180	TTTGAATGTTCTTGAGTCTGACCT	CTGGAAACATCCTTTCTTCTTGAT	G/T
120	HRM131631137	CATCATTAGCCCTACCCTTCTAAA	TTTCTTACTTTACGGTCTGTGCAA	G/T
121	HRM132177171	ATTTGGAAATGAGCATTGTTGTC	GGCCTTCAGAAAAATACTTTGAGA	C/G
122	HRM132211814	TGATGTCTACAACGGTTCACTAGC	AGAGGAAATCCAAATATTTCCAAG	A/G
123	HRM132287924	CAGCAACTATCATTCCAGTATTCG	TTAAGGCCTCACTAAATTTGAACC	G/A
124	HRM134995671	CACACTAGAATCCATCGAAATCAA	GAGTGATTTCCAAACATGTTGTACT	C/T
125	HRM135273656	TGATATTCCAAAGACGATTTTTCA	CTGTCTGAACACCCATTTTATGAG	T/C
126	HRM139480871	ATGCCTATAGGTGGTGGATTATGT	GGTGACATTTTCTTTTCCCATAGT	A/G
127	HRM141321310	GAGGCTATGGGATGTTTAGAAGAG	TGGCTTCACTACTTCTGTTACCTT	T/C
128	HRM142660665	TGATATCGTCACTTTCTGATGACA	AAAAAGATGGCTGACAATATCCAT	A/G

Supplementary Table 3. Male-fertility phenotype and genotypes of 30 polymorphic HRM markers in 5 recombinant pepper plants.

IndividualNo.	Phenotype[z]	Genotype of HRM markers				
		HRM100473942	HRM101096844	HRM101096843	HRM102893339	HRM102897000
52	MS	S[y]	S	S	S	S
94	MS	H[x]	S	S	S	S
107	MS	H	H	H	H	H
118	MS	S	S	S	S	S
153	MS	S	S	S	S	S
IndividualNo.	Phenotype	Genotype of HRM markers				
		HRM102902682	HRM102911758	HRM103087926	HRM103088013	HRM103255158
52	MS	S	S	S	S	S
94	MS	S	S	S	S	S
107	MS	H	H	H	H	H
118	MS	S	S	S	S	S
153	MS	S	S	S	S	S
IndividualNo.	Phenotype	Genotype of HRM markers				
		HRM103275816	HRM103292478	HRM103451796	HRM103480835	HRM103480863
52	MS	S	S	S	S	S
94	MS	S	S	S	S	S
107	MS	H	H	H	H	H
118	MS	S	S	S	S	S
153	MS	S	S	S	S	S
IndividualNo.	Phenotype	Genotype of HRM markers				
		HRM104212623	HRM104215541	HRM104224853	HRM105020091	HRM117868894
52	MS	S	S	S	S	S
94	MS	S	S	S	S	S
107	MS	H	H	H	H	S
118	MS	S	S	S	S	S
153	MS	S	S	S	S	S
IndividualNo.	Phenotype	Genotype of HRM markers				
		HRM119042778	HRM119655681	HRM119764966	HRM121624913	HRM129287831
52	MS	S	S	S	S	S
94	MS	S	S	S	S	S
107	MS	S	S	S	S	S
118	MS	S	S	S	S	S
153	MS	S	S	S	S	S
IndividualNo.	Phenotype	Genotype of HRM markers				
		HRM135273656	HRM142660665	HRM145232686	HRM145700040	HRM145498219
52	MS	S	S	S	S	H
94	MS	S	S	S	S	H
107	MS	S	S	S	S	S
118	MS	S	S	S	S	H
153	MS	S	S	H	H	H

[z]MS, Male-sterile.
[y]H, Heterozygous male-fertile genotype (*Ms₃ms₃*); S, Male-sterile genotype (*ms₃ms₃*).
[x]Gray box, recombinant.

Supplementary Table 4. Analysis of 5 HRM markers in *ms*$_3$−segregant pepper plants for validity test.

Sample No.	Genotype[z]	Genotype of HRM markers				
		HRM117868894	HRM119042778	HRM119655681	HRM135273656	HRM142660665
1	H	H	H	H	H	F[y]
2	H	H	H	H	H	F
3	H	H	H	H	H	F
4	H	H	H	H	H	F
5	H	H	H	H	H	F
6	H	F	F	H	H	H
7	H	F	F	H	H	H
8	H	F	F	H	H	H
9	H	H	H	H	H	F
10	H	H	H	H	H	F
11	H	H	H	H	H	F
12	F	F	F	F	F	H
13	F	F	F	F	F	H
14	F	F	F	F	F	H
15	F	F	F	F	F	H
16	F	F	F	F	F	H
17	F	F	F	F	F	H
18	F	F	F	F	F	H
19	F	F	F	F	F	H
20	F	F	F	F	F	H
21	F	F	F	F	F	H
22	H	H	H	H	H	F
23	H	H	H	H	H	F
24	H	H	H	H	H	F
25	H	H	H	H	H	F
26	H	H	H	H	H	F
27	F	F	F	F	F	H
28	F	F	F	F	F	H
29	F	F	F	F	F	H
30	F	F	F	F	F	H
31	F	F	F	F	F	H
32	F	F	F	F	F	H
33	F	F	F	F	F	H
34	F	F	F	F	F	H
35	F	F	F	F	F	H
36	F	F	F	F	F	H
37	F	F	F	F	F	H
38	F	F	F	F	F	H
39	F	F	F	F	F	H
40	F	F	F	F	F	H
41	F	F	F	F	F	H
42	H	H	H	H	H	F
43	H	H	H	H	H	F

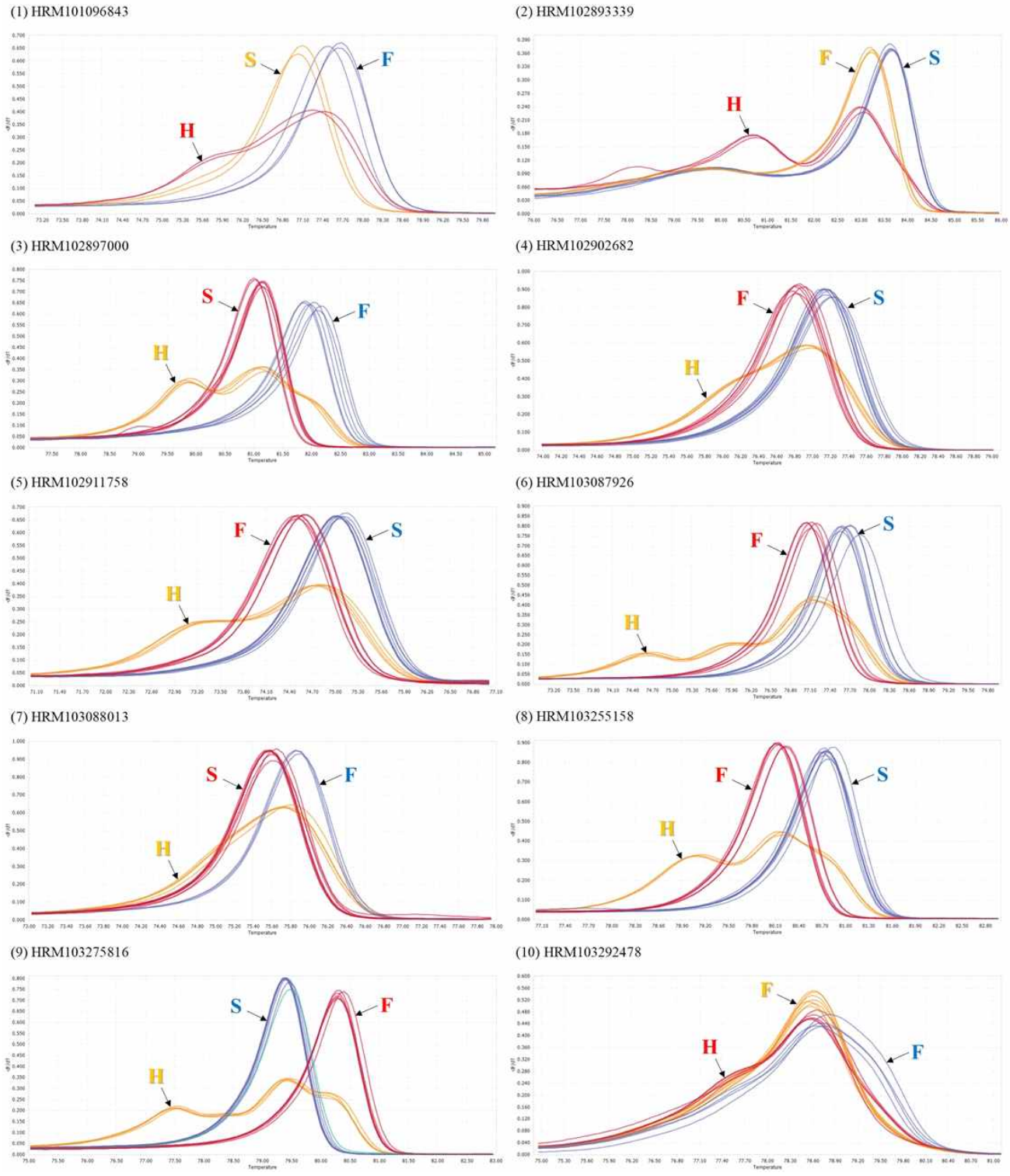
Supplementary Table 4. Continued.

Sample No.	Genotype[z]	Genotype of HRM markers				
		HRM117868894	HRM119042778	HRM119655681	HRM135273656	HRM142660665
44	H	H	H	H	H	F
45	H	H	H	H	H	F
46	H	H	H	H	H	F
47	H	H	H	H	H	F
48	H	H	H	H	H	F
49	H	H	H	H	H	F
50	H	H	H	H	H	F

[z]H, Heterozygous male-fertile genotype (*Ms*$_3$*ms*$_3$); F, Homozygous male-fertile genotype (*Ms*$_3$*Ms*$_3$).
[y]Gray box, recombinant.

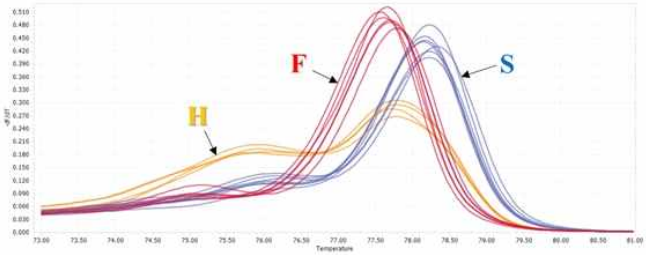
Supplementary Table 5. A list of genes located between 119,042,778 and 119,764,966 bp on chromosome 1 of pepper reference genome [*Capsicum annuum* cv. CM334 ver.1.6; GCA_000512255.2(ASM51225v2)].

No.	Gene ID		Physical location (bp) (ver. 1.6)	BLAST result	Gene size
	Ver. 1.6	Ver. 1.55			
1	T459_02007	*CA01g15570*	119,043,651-119,044,564	50S ribosomal protein L22, chloroplastic	914bp
2	T459_02008	*CA01g15580*	119,044,974-119,045,402	50S ribosomal protein L2,chloroplastic	429bp
3	T459_02009	*CA01g15190*	119,046,483-119,046,764	50S ribosomal protein L23, chloroplastic	282bp
4	T459_02010	*CA01g15620*	119,129,368-119,136,505	Flowering time control protein FCA, partial	7,138bp

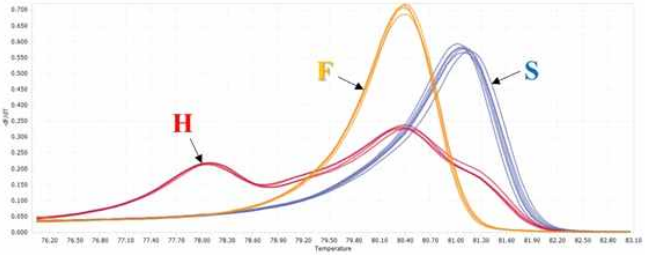


Supplementary Fig. 1. Melting curves of 25 polymorphic HRM markers developed in this study. F, homozygous male−fertile (*Ms*$_3$*Ms*$_3$); H, heterozygous male−fertile (*Ms*$_3$*ms*$_3$); S, male−sterile (*ms*$_3$*ms*$_3$).

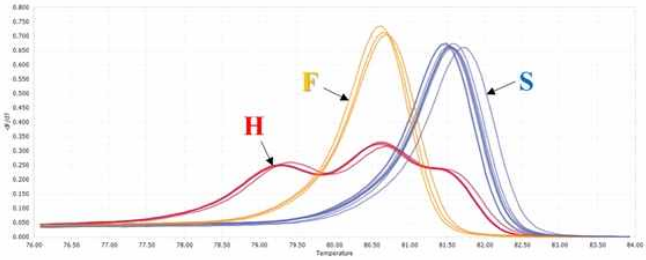
(11) HRM103451796



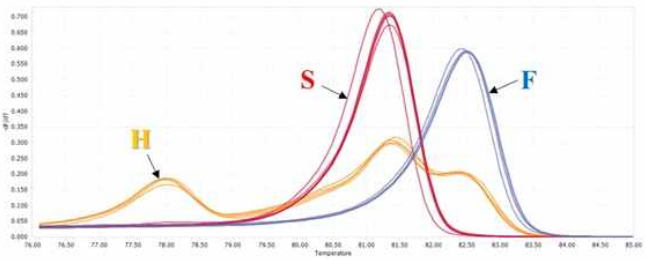
(12) HRM103480835



(13) HRM103480863



(14) HRM104212623



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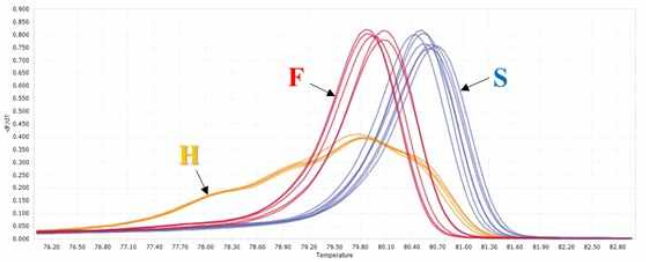
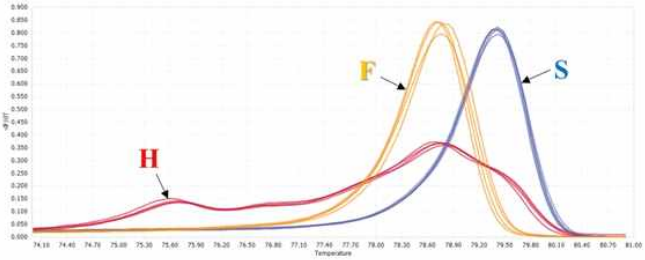


(16) HRM104224853



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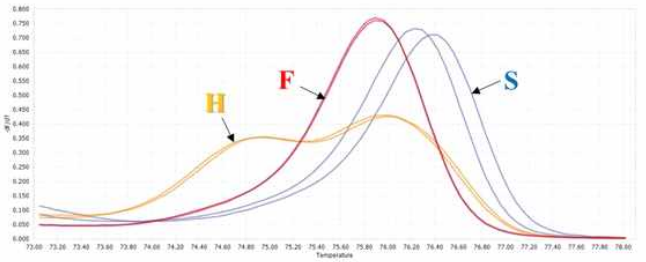
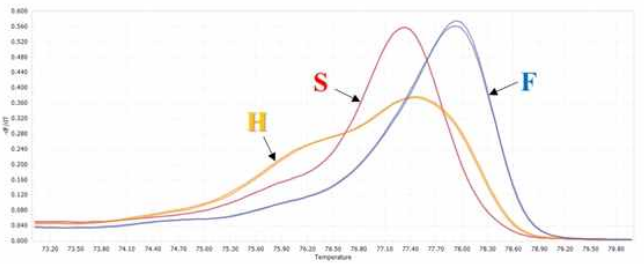
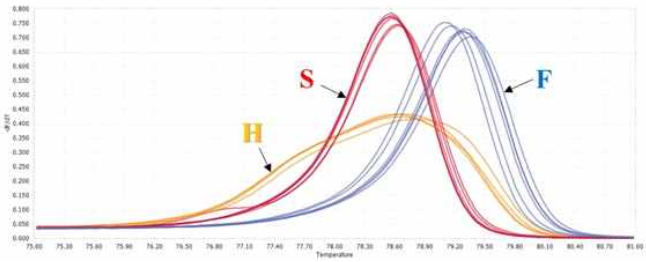


(18) HRM117868894



(19) HRM119042778



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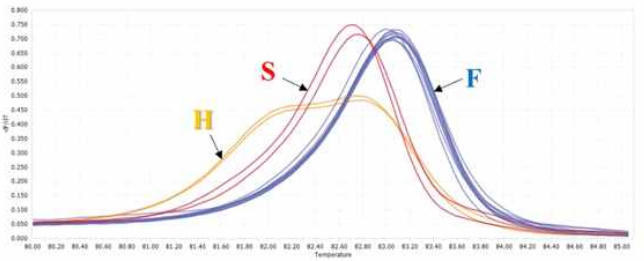
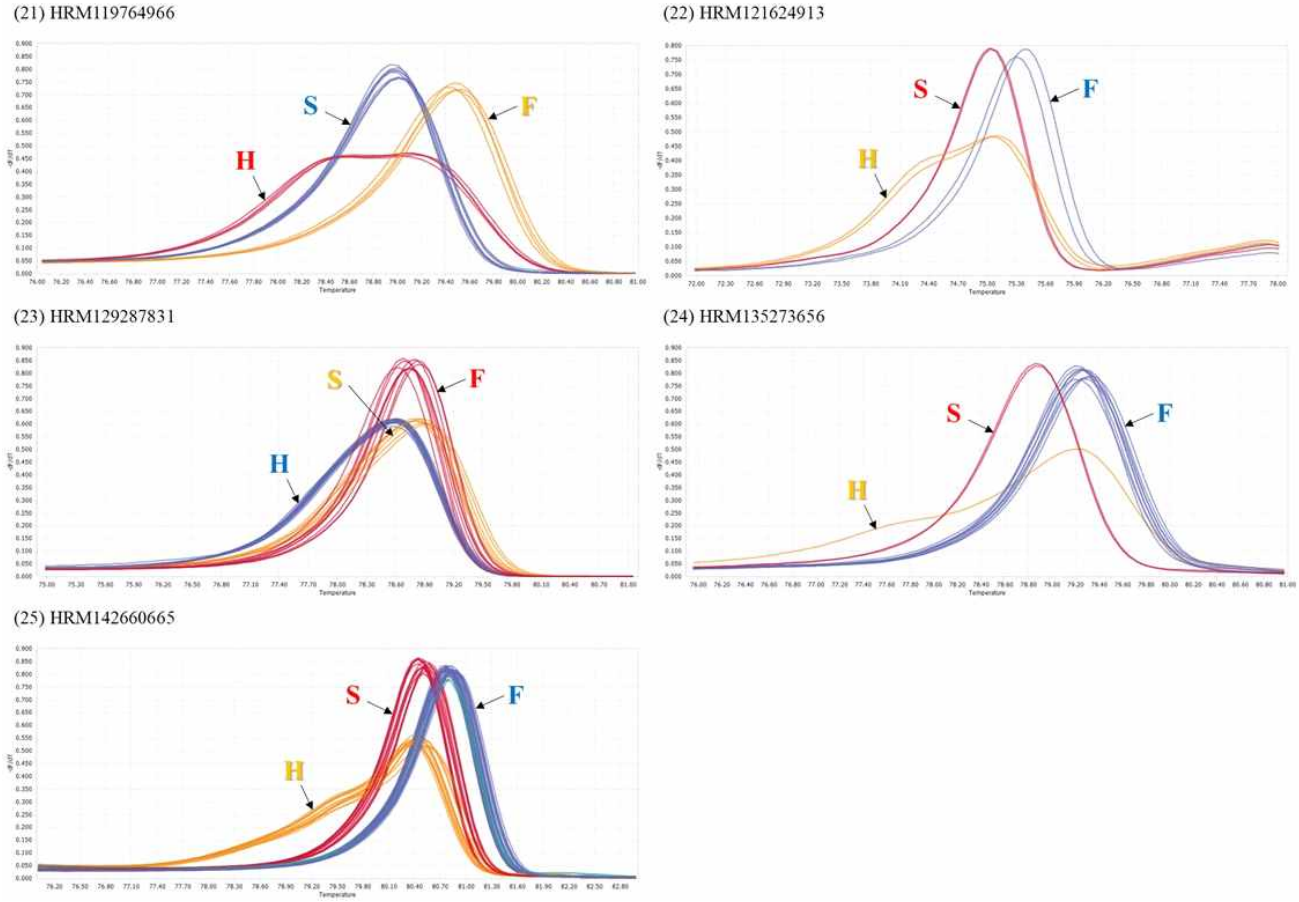


Supplementary Fig. 1. Continued.



Supplementary Fig. 1. Continued.