Supplementary Information

Table S1. SSR candidates of Capsicum annuum var. glabriusculum chloroplast genome.

Type of SSR	SSR Abundances	Percentage Abundance (%)
Dinucleotide		
TA/AT	9	7.2
Trinucleotide		
TTC/TCT/CTT	9	7.2
TTA/TAT/ATT	23	18.4
Tetranucleotide		
TTTG/TTGT/TGTT	9	7.2
TCTT/CTTT/TTTC	9	7.2
ATAA/TAAA/AAAT	16	12.8
AATT/ATTA/TTAA	9	7.2
AAAT/AATA/ATAA	19	15.2
Pentanucleotide		
TTTTA/TTTAT/TTATT	11	8.8
TTATT/TATTT/ATTTT	11	8.8
Total	125	100

Table S2. SNP markers of Capsicum annuum var. glabriusculum chloroplast genome.

No.	REF	ALT	Coding Dogion	QUAL	Dogion
	(C. annuum)	(C. annuum var. glabriusculum)	Coding Region	QUAL	Region
1	T	C	non-coding region	222	LSC
2	A	T	non-coding region	222	LSC
3	G	T	non-coding region	222	LSC
4	G	A	non-coding region	222	LSC
5	C	A	non-coding region	222	LSC
6	T	A	non-coding region	222	LSC
7	A	G	non-coding region	222	LSC
8	G	C	Gene (petA)	222	LSC
9	A	G	Gene (petA)	222	LSC
10	C	A	Gene (petA)	222	LSC
11	C	A	Gene (petA)	222	LSC
12	A	C	Gene(psbF)	15.1	LSC
13	A	T	non-coding region	222	LSC
14	A	T	non-coding region	222	SSC
15	T	G	non-coding region	222	SSC

 Table S3. INDEL markers of Capsicum annuum var. glabriusculum chloroplast genome.

No.	REF (C. annuum)	ALT (C. annuum var. glabriusculum)	Coding Region	QUAL	Region
1	ATTTTTTTT	ATTTTTTTT	non-coding region	61.5	LSC
2	CTTTTTTT	CTTTTTTTT,CTTTTTTTT	non-coding region	91.5	LSC
3	TAAAAAAA	TAAAAAAAA,TAAAAAAAAA	non-coding region	84.5	LSC
4	CTTTTT	CTTTTTT	non-coding region	207	LSC
5	TAAAAA	TAAAAAAA,TAAAAAAAAA	non-coding region	158	LSC
6	GAAAAAAAAAAAAAA	GAAAAAAAAAAAAAA,GAAAAAAAAAAAAAAAAAAAAA	non-coding region	3.24	LSC
7	CTTTTTT	CTTTTTT,CTTTTTTT	non-coding region	134	LSC
8	CTTTTTTTTTT	CTTTTTTTTTTT,CTTTTTTTTTTT	non-coding region	11.8	LSC
9	TAAAAAA	TAAAAAAA,TAAAAAAAA	non-coding region	121	LSC
10	GTTTTTT	GTTTTT	non-coding region	129	LSC
11	GTTTTTTTT	GTTTTTTTT,GTTTTTTTTTT,GTTTTTTTTT	non-coding region	74.5	LSC
12	TCAACTCATTTTA	T	non-coding region	214	LSC
13	ATTTTT	ATTTTT	non-coding region	195	LSC
14	CAAAAAAAAA	CAAAAAAAAAA,CAAAAAAAAAAAAA,CAAAAAAA	non-coding region	56.5	LSC
15	ATTTTTTTT	ATTTTTTTT,ATTTTTTTT	non-coding region	68.5	LSC
16	TAAAAAAAAA	TAAAAAAAAAA,TAAAAAAAAAAA	non-coding region	49.5	LSC
17	GAAAAA	GAAAAAA	non-coding region	148	LSC
18	ATTTTTTTT	ATTTTTTT	non-coding region	96.5	LSC
19	CAAAAAAAAA	CAAAAAAAAAA,CAAAAAAAAAAA	non-coding region	48.5	LSC
20	AATCAAAGTAAATAAGAT	AAT	non-coding region	217	LSC
21	TAAAAAAA	TAAAAA	non-coding region	214	LSC
22	TT	TTCTTTATAT	non-coding region	214	LSC
23	ATTTTTTTT	ATTTTTTTT,ATTTTTTTT	non-coding region	82.5	LSC
24	AGACTCCGGTAA	AGACTCCGGTAACGACTCCGGTAA	Gene (rpl20)	218	LSC
25	GTTTTTTT	GTTTTTTTT,GTTTTTTTT	non-coding region	94.5	LSC
26	GAAAAAA	GAAAAA	non-coding region	70.5	LSC
27	GAAAAAAA	GAAAAAAAA,GAAAAAAAAAA,GAAAAAAAAAA	non-coding region	90.5	LSC
28	CTTTTTTTTTT	CTTTTTTTTTT,CTTTTTTTTTT	non-coding region	39.5	LSC
29	CTTTT	CTTTTT	non-coding region	214	LSC
30	ATTCTTATTTTT	ATTATTTTT	Gene (rps19)	214	LSC
31	GTTTTTTTT	GTTTTTTTTT	Gene (rpl32)	29.5	SSC
32	TAAAAAAAA	TAAAAAAAAA,TAAAAAAAAAA	non-coding region	75.5	SSC
33	TCCCCC	TCCCCCC	non-coding region	187	SSC