

Table S1 Distribution of the major SSR types identified from the genome sequence of *B. oleracea*

SSR motif	Number	Proportion (%)	Frequency (loci/Mb)
Mononucleotide	62204	49.59	110.88
A/T	57629	45.94	102.72
C/G	4575	3.65	8.15
Dinucleotide	41560	33.13	81.57
AT/AT	27267	21.74	48.60
AG/CT	12321	9.82	21.96
AC/GT	1968	1.57	3.51
CG/CG	4	0.00	0.01
Trinucleotide	13652	10.88	30.38
AAG/CTT	4436	3.54	7.91
AAT/ATT	2548	2.03	4.54
AAC/GTT	1338	1.07	2.38
ACC/GGT	875	0.70	1.56
ACG/CGT	520	0.41	0.93
AGG/CCT	1604	1.28	2.86
ATC/GAT	2156	1.72	3.84
CCG/CGG	175	0.14	0.31
Tetranucleotide	4884	3.89	10.49
AAAC/GTTT	457	0.36	0.81
AAAG/CTTT	567	0.45	1.01
AAAT/AAAT	1992	1.59	3.55
AACT/AGTT	238	0.19	0.42
AATT/AATT	458	0.37	0.82
ATAC/GTAT	126	0.10	0.22
ATAG/CTAT	304	0.24	0.54
others	742	0.59	3.12
Pentanucleotide	1781	1.42	3.82
AAAAC/GTTTT	145	0.12	0.26
AAAAT/ATTTT	327	0.26	0.58
AACCG/CGGTT	382	0.30	0.68
ACTGG/CCAGT	17	0.01	0.03
others	910	0.73	2.27
Hexanucleotide	1362	1.09	1.99
AAAAAC/GTTTTT	58	0.05	0.10
AAAAAG/CTTTTT	70	0.06	0.12
AAAAAT/ATTTTT	86	0.07	0.15
AAAACC/GGTTTT	19	0.02	0.03
AAAGAG/CTCTTT	20	0.02	0.04
AAATAT/ATATTT	30	0.02	0.05
others	1079	0.86	1.50
total	125443	100.00	223.60