

Supplementary materials

Table S1. Characteristics of amplified fragment length polymorphism (AFLP) primers used to assess the genetic diversity of bilberry (*Vaccinium myrtillus*) accessions

AFLP primer pair	Primers' sequence (5'-3')	Number of AFLP products		Range of product size (bp)
		Monomorphic	Polymorphic	
Pst-CC/Mse-CC	GACTGCGTACATGCAGCC/ GATGAGTCCTGAGTAACC	69	29	100 – 700
Pst-TT/Mse-CC	GACTGCGTACATGCAGTT/ GATGAGTCCTGAGTAACC	61	6	200 – 600
Pst-GC/Mse-TA	GACTGCGTACATGCAGGC/ GATGAGTCCTGAGTAATA	71	14	50 – 500
Pst-CG/Mse-AG	GACTGCGTACATGCAGCG/ GATGAGTCCTGAGTAAAG	35	27	100 – 800
Pst-CC/Mse-GG	GACTGCGTACATGCAGCC/ GATGAGTCCTGAGTAAGG	48	21	200 – 900
Pst-AT/Mse-AT	GACTGCGTACATGCAGAT/ GATGAGTCCTGAGTAAAT	98	50	150 – 700
Pst-AT/Mse-TC	GACTGCGTACATGCAGAT/ GATGAGTCCTGAGTAATC	98	4	50 – 800
Pst-AC/Mse-AC	GACTGCGTACATGCAGAC/ GATGAGTCCTGAGTAAC	44	39	100 – 750
Pst-TC/Mse-TC	GACTGCGTACATGCAGTC/ GATGAGTCCTGAGTAATC	104	11	150 – 800
Pst-AA/Mse-AC	GACTGCGTACATGCAGAA/ GATGAGTCCTGAGTAAC	92	3	150 – 800

Table S2. The similarity index matrix of bilberry accessions based on AFLP markers

T13	0.933	0.937	0.939	0.937	0.931	0.943	0.937	0.943	0.933	0.941	0.818	1.000							
T14	0.832	0.835	0.840	0.835	0.837	0.830	0.832	0.828	0.835	0.832	0.938	0.817	0.817						
T15	0.805	0.807	0.806	0.811	0.809	0.806	0.808	0.814	0.807	0.804	0.910	0.796	0.796	0.937					
T16	0.964	0.964	0.958	0.960	0.958	0.962	0.964	0.959	0.960	0.968	0.816	0.929	0.929	0.831	0.804				
T17	0.950	0.946	0.959	0.949	0.948	0.951	0.942	0.940	0.938	0.942	0.805	0.919	0.919	0.821	0.800	0.938			
T18	0.966	0.966	0.964	0.962	0.957	0.968	0.955	0.957	0.951	0.959	0.809	0.920	0.920	0.824	0.810	0.951	0.971		
T19	0.972	0.972	0.970	0.976	0.966	0.974	0.964	0.963	0.957	0.961	0.817	0.930	0.930	0.832	0.808	0.964	0.957	0.970	
T20	0.976	0.972	0.966	0.972	0.963	0.974	0.961	0.963	0.957	0.961	0.817	0.930	0.930	0.826	0.802	0.964	0.953	0.967	0.992
T21	0.768	0.770	0.769	0.770	0.772	0.769	0.770	0.767	0.770	0.767	0.903	0.765	0.765	0.881	0.876	0.763	0.758	0.760	0.768

Table S3. The genetic distance index matrix of bilberry accessions based on AFLP markers

	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20
T2	0.012																			
T3	0.022	0.014																		
T4	0.016	0.012	0.010																	
T5	0.026	0.030	0.028	0.022																
T6	0.014	0.018	0.020	0.010	0.024															
T7	0.028	0.024	0.022	0.016	0.022	0.022														
T8	0.026	0.030	0.031	0.022	0.039	0.016	0.022													
T9	0.036	0.032	0.030	0.024	0.030	0.026	0.020	0.030												
T10	0.028	0.028	0.030	0.024	0.026	0.018	0.016	0.022	0.008											
T11	0.183	0.181	0.179	0.181	0.172	0.182	0.184	0.188	0.178	0.181										
T12	0.067	0.063	0.061	0.063	0.069	0.057	0.063	0.057	0.067	0.059	0.182									
T13	0.067	0.063	0.061	0.063	0.069	0.057	0.063	0.057	0.067	0.059	0.182	0.000								
T14	0.168	0.165	0.160	0.165	0.163	0.170	0.168	0.172	0.165	0.168	0.062	0.183	0.183							
T15	0.195	0.193	0.194	0.189	0.191	0.194	0.192	0.186	0.193	0.196	0.090	0.204	0.204	0.063						
T16	0.036	0.036	0.042	0.040	0.042	0.038	0.036	0.041	0.040	0.032	0.184	0.071	0.071	0.169	0.196					
T17	0.050	0.054	0.041	0.051	0.052	0.049	0.058	0.060	0.062	0.058	0.195	0.081	0.081	0.179	0.200	0.062				
T18	0.034	0.034	0.036	0.038	0.043	0.032	0.045	0.043	0.049	0.041	0.191	0.080	0.080	0.176	0.190	0.049	0.029			
T19	0.028	0.028	0.030	0.024	0.034	0.026	0.036	0.037	0.043	0.039	0.183	0.070	0.070	0.168	0.192	0.036	0.043	0.030		
T20	0.024	0.028	0.034	0.028	0.037	0.026	0.039	0.037	0.043	0.039	0.183	0.070	0.070	0.174	0.198	0.036	0.047	0.033	0.008	
T21	0.232	0.230	0.231	0.230	0.228	0.231	0.230	0.233	0.230	0.233	0.097	0.235	0.235	0.119	0.124	0.237	0.242	0.240	0.232	

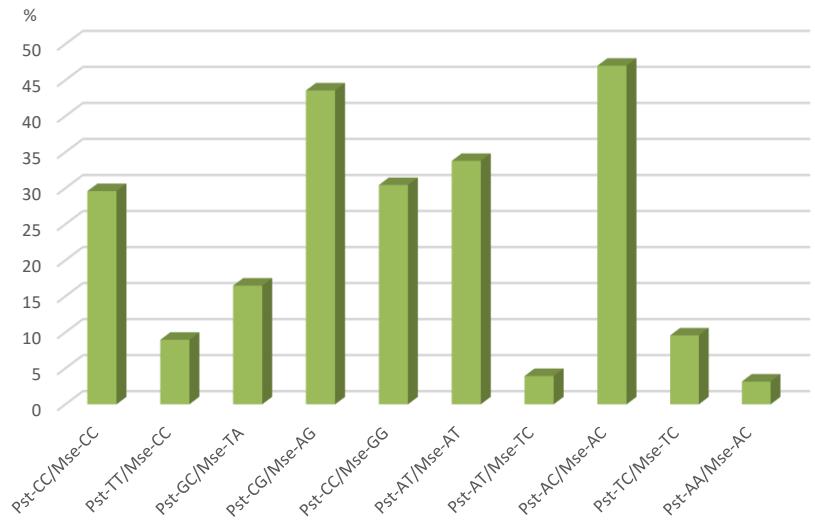


Figure S1. Polymorphism of AFLP products generated by primers selected to assess genetic diversity of bilberry accessions