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# Assessment of genetic diversity and population structure of almond germplasm in Van Province, Türkiye, using iPBS-retrotransposon-based markers

BERNA SARMAN , METIN KOÇAK 

*Agricultural Biotechnology, Faculty of Agriculture, Van Yüzyüncü Yıl University, Van, Türkiye*

## Electronic Supplementary Material (ESM)

The authors are fully responsible for both the content and the formal aspects of the electronic supplementary material. No editorial adjustments were made.

Table S1. Codes, coordinates, and regions of accessions

Accession	Coordinate	Region	Accession	Coordinate	Region
A2	38.3398750-43.0369690	Akdamar Island	C28	38.615548-43.101378	Çarpanak Peninsula
A5	38.3399260-43.0381930	Akdamar Island	C29	38.61456-43.104453	Çarpanak Peninsula
A6	38.3397900-43.0389750	Akdamar Island	C30	38.1491-543.10492	Çarpanak Peninsula
A7	38.339936-43.038765	Akdamar Island	C31	38.614247-43.106111	Çarpanak Peninsula
A8	38.3402650-43.0382950	Akdamar Island	C34	38.613898-43.108484	Çarpanak Peninsula
A9	38.3403890-43.0376900	Akdamar Island	C35	38.613444-43.109912	Çarpanak Peninsula
A10	38.3408110-43.0376810	Akdamar Island	C36	38.611497-43.112172	Çarpanak Peninsula
A11	38.341151-43.037306	Akdamar Island	P (Pabuç)		commercial variety
A12	38.341017-43.037032	Akdamar Island	D (Dokuzoğuz)		commercial variety
A13	38.3402430-43.0375180	Akdamar Island			
A14	38.3408310-43.0367120	Akdamar Island			
A15	38.3412530-43.0364480	Akdamar Island			
A16	38.341766-43.036521	Akdamar Island			
A17	38.342269-43.036717	Akdamar Island			
A18	38.3417820-43.0359610	Akdamar Island			
A19	38.341385-43.035991	Akdamar Island			
A20	38.341319-43.036457	Akdamar Island			
A21	38.3406430-43.0366970	Akdamar Island			
A22	38.3407650-43.0347420	Akdamar Island			
A23	38.3407560-43.0355140	Akdamar Island			
C1	38.6247-43.147872	Çarpanak Peninsula			
C3	38.620885-43.126344	Çarpanak Peninsula			
C4	38.621239-43.127	Çarpanak Peninsula			
C5	38.621807-43.128162	Çarpanak Peninsula			
C6	38.622942-43.129698	Çarpanak Peninsula			
C7	38.623239-43.130356	Çarpanak Peninsula			
C8	38.625338-43.133772	Çarpanak Peninsula			
C9	38.620741-43.12702	Çarpanak Peninsula			
C10	38.620493-43.124928	Çarpanak Peninsula			
C11	38.617656-43.111753	Çarpanak Peninsula			
C12	38.618404-43.108645	Çarpanak Peninsula			
C13	38.619953-43.108417	Çarpanak Peninsula			
C14	38.619259-43.106712	Çarpanak Peninsula			
C15	38.619816-43.106255	Çarpanak Peninsula			
C16	38.619661-43.105668	Çarpanak Peninsula			
C19	38.619214-43.105186	Çarpanak Peninsula			
C20	38.618282-43.104857	Çarpanak Peninsula			
C21	38.618027-43.104889	Çarpanak Peninsula			
C22	38.617309-43.105081	Çarpanak Peninsula			
C23	38.617575-43.104479	Çarpanak Peninsula			
C24	38.617135-43.099584	Çarpanak Peninsula			
C26	38.619106-43.101691	Çarpanak Peninsula			
C27	38.620487-43.102786	Çarpanak Peninsula			

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Table S2. iPBS-retrotransposon markers evaluated on eight randomly selected almond accessions

iPBS primer	Sequence (5'–3')	Annealing temperature (°C)	iPBS primer	Sequence (5'–3')	Annealing temperature (°C)
2083	CTTCTAGCGCCA	55	2226	CGGTGACCTTTGATACCA	53
2085	ATGCCGATACCA	53	2228	CATTGGCTCTTGATACCA	53
2087	GCAATGGAACCA	52	2229	CGACCTGTTCTGATACCA	52
2095	GCTCGGATACCA	53	2230	TCTAGGCGTCTGATACCA	53
2374	CCCAGCAAACCA	53	2231	ACTTGGATGCTGATACCA	52
2375	TCGCATCAACCA	50	2232	AGAGAGGCTCGGATACCA	55
2376	TAGATGGCACCA	52	2237	CCCCTACCTGGCGTGCCA	55
2377	ACGAAGGGACCA	53	2238	ACCTAGCTCATGATGCCA	55
2378	GGTCCTCATCCA	53	2239	ACCTAGGCTCGGATGCCA	55
2379	TCCAGAGATCCA	50	2240	AACCTGGCTCAGATGCCA	55
2383	GCATGGCCTCCA	53	2244	GGAAGGCTCTGATTACCA	50
2387	GCGCAATACCCA	52	2251	GAACAGGCGATGATACCA	53
2390	GCAACAACCCCA	55	2255	GCGTGTGCTCTCATAACCA	52
2393	TACGGTACGCCA	50	2295	AGAACGGCTCTGATACCA	60
2394	GAGCCTAGGCCA	55	2298	AGAAGAGCTCTGATACCA	60
2271	GGCTCGGATGCCA	60	2395	TCCCCAGCGGAGTCGCCA	53
2272	GGCTCAGATGCCA	55	2398	GAACCCTTGCCGATACCA	51
2273	GCTCATCATGCCA	55	2399	AAACTGGCAACGGCGCCA	52
2274	ATGGTGGGCGCCA	65	2400	CCCCTCCTTCTAGCGCCA	51
2276	ACCTCTGATACCA	50	2401	AGTTAAGCTTTGATACCA	53