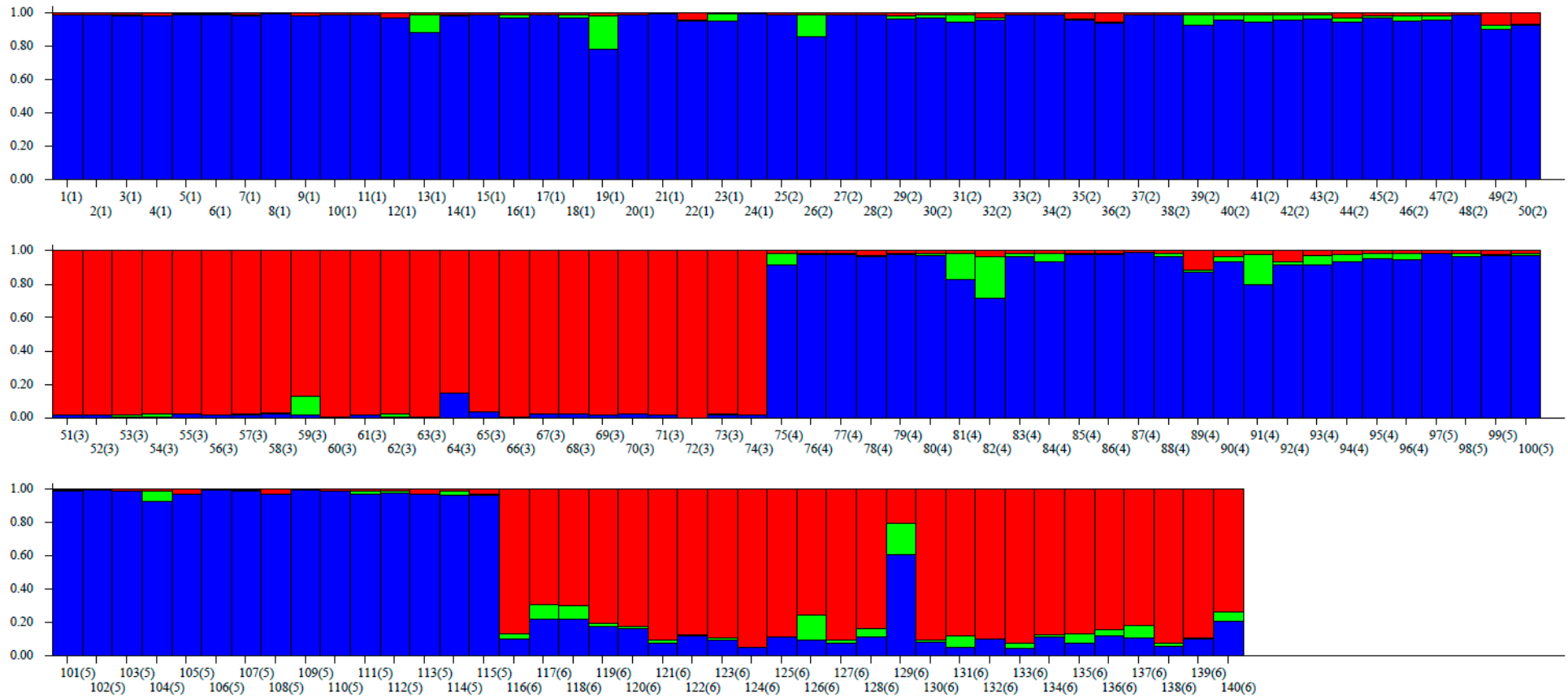


**Figure S1.**  $\Delta K$  values for different numbers of populations assumed ( $K$ ) in the STRUCTURE HARVESTER analysis v 0.6.94 for the six population groups of *Jubaea chilensis*, central Chile.



**Figure S2.** Populational structure inferred for the six sampled groups of *Jubaia chilensis*, central Chile, based on the analysis of 1,038 SNPs using the STRUCTURE v 2.3.4, assuming the Admixture model. Each individual is represented by a vertical bar, often partitioned into colored segments with the length of each segment representing the proportion of the individual's genome from  $K = 3$  ancestral populations. Cocalan:1-24, Culimo:25-50, Viña del Mar/Valparaíso:51-74, Candelaria:75-96, Petorca:97-115, and Ocoa:116-140.

**Table S1.** Frequency of SNPs by minor allele frequencies (MAF) within the six population groups of *Jubaea chilensis*. (CUL) Culimo, (PET) Petorca, (OCO) Ocoa, (VAV) Viña del Mar/Valparaíso, (COC) Cocalán, (CAN) Candelaria.

	CUL	PET	OCO	VAV	COC	CAN
<b>MAF <math>\leq</math> 0.1</b>	0.994	0.973	0.976	0.969	0.988	0.989
<b>0.1 &lt; MAF <math>\leq</math> 0.2</b>	0.006	0.017	0.022	0.022	0.01	0.01
<b>0.2 &lt; MAF <math>\leq</math> 0.3</b>	0	0.007	0.002	0.007	0.001	0
<b>0.3 &lt; MAF <math>\leq</math> 0.4</b>	0	0.003	0	0.002	0.001	0.001
<b>0.4 &lt; MAF <math>\leq</math> 0.5</b>	0	0	0	0	0	0

**Table S2.** Log likelihood and Bayesian deviance for BA3-SNPs runs.

Runs	Log likelihood	Deviance
<b>1</b>	-17655.7066	35311.41
<b>2</b>	-17225.1847	34450.37
<b>3</b>	-16909.3281	33818.66
<b>4</b>	-17435.152	34870.3
<b>5</b>	-17336.3691	34672.74
<b>6</b>	-17735.9297	35471.86
<b>7</b>	-17306.2556	34612.51
<b>8</b>	-17099.8056	34199.61
<b>9</b>	-17324.9496	34649.9
<b>10</b>	-17342.0692	34684.14

**Table S3.** Evanno method results (Evanno et al., 2005) obtained using the STRUCTURE HARVESTER v 0.6.94 for the six population groups of *Jubaea chilensis*, central Chile. The highest value of delta K (in bold) indicates the number of established groups.

K	Reps	Mean LnP (K)	Stdev LnP (K)	Ln' (K)	Ln'' (K)	Delta K
1	25	-17626.820	1.210	-	-	-
2	25	-16739.548	277.545	887.272	367.980	1.326
<b>3</b>	<b>25</b>	<b>-16220.256</b>	<b>515.248</b>	<b>519.292</b>	<b>1488.932</b>	<b>2.890</b>
4	25	-17189.896	2541.272	-969.640	1232.916	0.485
5	25	-16926.620	3753.075	263.276	2608.900	0.695
6	25	-14054.444	874.565	2872.176	-	-