

Additional file 3: Genetic variation in a *Populus nigra* full-sib family (POP5) grown in Cavallermaggiore (CV) in Italy.

Table S1 Genetic variation in a *Populus nigra* full-sib family (POP5) grown in Cavallermaggiore (CV) in Italy. Parental values (i.e. female parent ‘58-861’ mean \pm standard error (SE)), family values (i.e. population means \pm SE and level of significance differences between F₁ genotypes) and genetic parameters (i.e. coefficient of genetic (CV_g) and residuals (CV_ε) variation and broad-sense heritability at individual (H²_{ind}) and genotypic (H²_{gen}) level \pm SE). The *F*-test between parents were not performed because of the absence of ‘Poli’ (see Materials and Methods).

CV	Climatic parameter	Parental values					Family values			Genetic values			
		Poli	\pm SE	58-861	\pm SE	<i>F</i> test	General mean	\pm SE	P	CV _g (%)	CV _ε (%)	H ² _{ind} \pm SE	H ² _{gen} \pm SE
date2.5	CNL	-	-	781.17	\pm 10.16	-	864.23	\pm 1.62	***	3.46	3.24	0.53 \pm 0.04	0.84 \pm 0.02
date2	CNL	-	-	824.17	\pm 9.47	-	913.87	\pm 1.68	***	3.25	3.35	0.48 \pm 0.05	0.81 \pm 0.02
date1.5	CNL	-	-	863.93	\pm 9.51	-	964.08	\pm 1.76	***	2.96	3.56	0.40 \pm 0.05	0.75 \pm 0.03
date1	CNL	-	-	934.33	\pm 20.75	-	1019.04	\pm 1.64	***	2.45	3.29	0.35 \pm 0.05	0.70 \pm 0.03
date0.5	CNL	-	-	1087.67	\pm 9.46	-	1098.25	\pm 0.63	***	0.53	1.37	0.14 \pm 0.04	0.43 \pm 0.05
duration2.5	CNL	-	-	43.00	\pm 2.49	-	49.64	\pm 0.58	***	7.78	26.76	0.11 \pm 0.04	0.36 \pm 0.05
duration2	CNL	-	-	39.76	\pm 3.56	-	50.21	\pm 0.60	***	12.99	28.09	0.18 \pm 0.04	0.49 \pm 0.04
duration1.5	CNL	-	-	70.40	\pm 14.61	-	54.95	\pm 0.58	***	11.59	24.58	0.23 \pm 0.04	0.57 \pm 0.04
duration1	CNL	-	-	153.34	\pm 17.27	-	79.95	\pm 1.43	***	23.32	38.61	0.27 \pm 0.04	0.62 \pm 0.04
subproc1	CNL	-	-	82.76	\pm 5.43	-	99.85	\pm 1.02	***	10.01	23.59	0.15 \pm 0.04	0.44 \pm 0.05
subproc2	CNL	-	-	223.74	\pm 2.95	-	134.91	\pm 1.59	***	16.70	24.59	0.32 \pm 0.05	0.67 \pm 0.04