

Supplementary Material

Tab. S1 - Parental assignments based on Cervus and MasterBayes. (*): Seeds (a-h) evaluated from each mother plant (A-H); (NA): No male progenitor assigned from the orchard; Confidence: (*) strict (95%) and (+) relaxed (80%) criteria; (P): Posterior probability for each assignment. Coincidence: “I” denotes “internal” and refers to same assignment and significance of the pollen donor belonging to the orchard; “E” denotes “external” and refers to external pollen donors; “-” denotes no coincidence between methods.

G4 Progeny*	Cervus			MasterBayes			
	Parental assignment	Delta	Confidence	Parental assignment	P	Confidence	Coincidence
Aa	G2	5.93E+00	*	G2	0.997	*	I
Ab	G6	7.26E+00	*	G6	1	*	I
Ac	G2	0.00E+00		NA	1		E
Ad	G2	6.96E-01	+	G2	0.681		-
Ae	G2	0.00E+00		NA	0.466		E
Af	G6	9.75E+00	*	G6	1	*	I
Ag	G3	5.00E+00	*	G3	1	*	I
Ah	G10	0.00E+00		NA	1		E
Ba	G3	9.14E+00	*	G3	1	*	I
Bb	G6	6.19E+00	*	G6	1	*	I
Bc	G5	6.00E+00	*	G5	0.918	+	I
Bd	G6	3.50E+00	*	G6	1	*	I
Be	G10	2.38E+00	*	G10	0.998	*	I
Bf	G6	3.11E+00	*	G6	0.997	*	I
Bg	G7	5.55E-02	+	G7	1	*	I
Bh	G6	6.05E+00	*	G6	0.998	*	I
Ca	G10	0.00E+00		G10	0.915	+	-
Cb	G2	0.00E+00		NA	0.822		E
Cc	G6	7.55E+00	*	G6	0.998	*	I
Cd	G2	3.32E+00	*	G2	0.780		-
Ce	G10	0.00E+00		G10	0.969	*	-
Cf	G9	9.03E+00	*	G9	0.999	*	I
Cg	G4	4.08E+00	*	G4	0.734		-
Ch	G8	6.39E+00	*	G8	0.994	*	I
Da	G8	5.87E+00	*	G8	1	*	I
Db	G9	1.12E+00	*	G9	0.664		-
Dc	G6	2.53E+00	*	G6	0.854	+	I
Dd	G6	7.06E+00	*	G6	0.998	*	I
De	G2	0.00E+00		NA	1		E
Df	G2	1.73E+00	*	G2	0.937	+	I
Dg	G4	0.00E+00		G4	0.665		E
Dh	G6	7.66E+00	*	G6	1	*	I
Ea	G2	0.00E+00		NA	0.969		E
Eb	G2	2.01E+00	*	G2	0.871	+	I
Ec	G6	9.24E+00	*	G6	1	*	I

D'Amico I, Vilardi JC, Saidman BO, Ewens M, Bessega C (2019).

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G4 Progeny*	Cervus			MasterBayes			
	Parental assignment	Delta	Confidence	Parental assignment	P	Confidence	Coincidence
Ed	G2	1.60E+00	*	G2	0.958	*	I
Ee	G6	9.36E+00	*	G6	1	*	I
Ef	C1	0.00E+00		C1	0.517		E
Eg	G2	2.27E+00	*	G2	0.974	*	I
Eh	G3	0.00E+00		G3	0.663		E
Fa	G10	0.00E+00		NA	1		E
Fb	C1	0.00E+00		NA	0.751		E
Fc	G8	5.88E+00	*	G8	1	*	I
Fd	G2	8.38E+00	*	G2	1	*	I
Fe	G9	1.42E+01	*	G9	1	*	I
Ff	G2	6.47E+00	*	G2	0.996	*	I
Fg	G9	0.00E+00		NA	0.968		E
Fh	G6	1.04E+01	*	G6	1	*	I
Ga	G9	6.40E+00	*	G9	0.997	*	I
Gb	G3	9.41E+00	*	G3	1	*	I
Gc	G2	6.60E+00	*	G2	1	*	I
Gd	G2	2.89E+00	*	G2	0.990	*	I
Ge	G8	0.00E+00		NA	1		E
Gf	G2	5.96E+00	*	G2	0.996	*	I
Gg	G7	0.00E+00		G7	0.999	*	-
Gh	G9	1.21E+01	*	G9	1	*	I
Ha	G6	3.46E+00	*	G6	0.931	+	I
Hb	G6	6.00E+00	*	G6	0.997	*	I
Hc	G3	1.37E-01	+	G3	1	*	I
Hd	G8	4.69E+00	*	G8	1	*	I
He	G6	3.77E+00	*	G6	0.993	*	I
Hf	G6	8.19E+00	*	G6	1	*	I
Hg	G6	8.88E+00	*	G6	1	*	I
Hh	G6	0.00E+00		NA	0.838		E
Number of assignments inside the orchard	-	-	47 (80%) 44 (95%)	-	-	46 (80%) 40 (95%)	43
Number of assignments external to the orchard	-	-	17 (80%) 20 (95%)	-	-	18 (80%) 24 (95%)	14