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## **Selecting elite tomato genotypes through a modified analytical hierarchy process**

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## Supplementary Material

**Table S1. Investigated F<sub>1</sub> hybrids in this study**

Code	Name	Producer co.	Code	Name	Producer co.
1	Petopride 6	Petoseed	11	PS 6515	Petoseed
2	Hypeel 513	Petoseed	12	Queenty	Petoseed
3	Amapola	Sakata	13	Xaman	Petoseed
4	Hypeel 303	Petoseed	14	Firenze	Petoseed
5	TMAG 669	Sakata	15	Speedy	Petoseed
6	Hypeel 108	Petoseed	16	Eden	Petoseed
7	Berlina	Seminis	17	Danai	Seminis
8	Wadistar	Petoseed	18	Adora	Sakata
9	Petopride 2	Petoseed	19	Super Set	Sakata
10	Petopride 5	Petoseed	20	Comodoro	Petoseed

**Table S2. Results of ANOVA for all measured traits on S<sub>2</sub> families**

SOV	df	MS						
		DTF	DTFS	H (cm)	PBN	PCN	FN	Yld (kg)
Block	2	9.48	106.12	31.60	1.10	117.32	88.97	0.032
Genotype	19	48.94**	84.04*	117.54**	4.07**	562.67**	248.03**	0.721**
Error	38	9.17	37.03	38.50	0.59	143.40	68.83	0.146
<i>R</i> <sup>2</sup>		0.76	0.57	0.61	0.66	0.68	0.67	0.73
SOV	df	MS						
		SPAD	pH	EC	TDS	Sal	TSS (%)	LC (mg g <sup>-1</sup> )
Block	2	9.17	0.02	0.77	0.25	0.23	0.41	0.006
Genotype	19	14.33	0.35	1.21	0.34	0.46*	3.44**	0.130**
Error	38	7.67	0.29	0.65	0.19	0.22	0.73	0.047
<i>R</i> <sup>2</sup>		0.56	0.47	0.57	0.56	0.59	0.77	0.65

\*, \*\*; significant in 5% and 1%, respectively.

DTF, days to first flowering; DTFS, days to first fruit set; H, plant height; PBN, primarily branch number; PCN, primarily cluster number; FN, fruit number; EC, electrical conductivity; TDS, total dissolved solids; Salt, Salinity; TSS, total suspended solids and LC, lycopene content