

Additional file 6: Relative content of secondary metabolites obtained from fruit pulp UPLC-QTOF-MS/MS analysis and (log₁₀) fold change in the autoploid lines. Mass spectral searching utilized the algorithm incorporated in the MassLynx® data system and finally normalized by the internal standard ampicillin. Asterisks represent significant changes in metabolite content (*P* < 0.01) according to ANOVA. Fold change represents the (log₁₀) change in the relative content of each metabolite between the autoploid lines and their respective control lines. The values in parentheses represent the *m/z* for each metabolite. NA = non-annotated

	Metabolites	2n		4n		Significance	(Log ₁₀) 4n fold change	3n		6n		Significance	(Log ₁₀) 6n fold change
		Average	±SE	Average	±SE			Average	±SE	Average	±SE		
Betacyanins	Betanin (551.1488)	67.23	4.17	48.37	2.27	*	-0.14	4.30	0.72	0.57	0.13	*	-0.88
	Phyllocactin (637.1495)	127.74	5.19	101.07	6.90	*	-0.10	6.10	1.01	2.19	0.48	*	-0.40
	Hylocerenin (695.1955)	256.04	12.36	231.20	8.64		-0.04	0.00	0.00	0.00	0.00		0.00
Flavonoids	Luteolin (287.0562)	2.01	0.18	4.64	1.82		0.33	4.74	0.54	23.03	2.44	*	0.69
	Quercetin (303.0508)	3.41	0.40	7.36	1.01	*	0.30	8.17	0.62	26.67	2.17	*	0.51
	Rutin (611.1613)	3.14	0.33	6.67	0.81	*	0.33	4.87	0.34	16.60	1.32	*	0.53
NA	NA (127.0351)	138.95	4.45	163.21	5.92	*	0.07	117.51	2.27	57.52	3.56	*	-0.31
	NA (151.0348)	359.51	5.79	341.93	7.91		-0.02	180.06	6.18	164.03	7.59		-0.04
	NA (160.0756)	6.91	0.65	13.60	0.76	*	0.29	178.35	9.45	408.79	51.23	*	0.36
	NA (188.0665)	137.09	15.74	200.87	24.30		0.17	139.73	11.98	29.52	2.13	*	-0.68
	NA (203.0523)	331.55	31.48	196.73	16.63	*	-0.23	60.39	5.69	21.69	2.03	*	-0.44
	NA (223.9889)	212.25	5.64	188.20	6.62	*	-0.05	137.06	6.05	124.35	4.95		-0.04