

Additional file 10. QTLs detected in P97 by composite interval mapping in *E. urophylla* and *E. grandis*.

The trait, the number of genotype used for analysis (n), the linkage group (LG), the position, the LOD value (* = significant at 5% genome-wide level), the percentage of variance explained by the QTL (PEV,%) and the difference between the two QTL allele effects (D) are indicated

Parent	Trait category	Trait	n	LG	Position (cM)	LOD	BCI	QTL Model	PEV	PEV tot	D
<i>E.uro</i>	Cumulative growth	Ht7	189	8	66	4.12 *	56 - 96	1	8.55		0.32
		Ht8	188	8	66	3.42 *	56 - 96	1	7.96		0.37
		Ht9	187	8	67	3.49 *	65 - 93	1	7.18		0.42
		Ht10	186	8	86	2.61	49 - 97	1	6.56		0.47
		Ht11	185	8	68	2.72	49 - 97	1	5.93		0.51
		Cir11	183	8	66	2.63	21 - 101	1	5.12		1.49
		Cir12	179	6	110	3.51 *	104 - 132	1	6.02		-1.78
		Cir13	171	6	126	3.49 *	105 - 153	1	6.34		2.02
		Cir15	168	6	126	2.85	51 - 156	1	6.21		2.14
		Cir18	165	6	110	3.02 *	102 - 155	1	6.47		-2.26
		Cir62	148	5	45	2.79	45 - 80	1	9.02		5.93
	Growth Increment	Ht7_8	188	2.2	71	2.58	56 - 88	2	5.03	11.76	-0.1
		Ht7_8	188	5	82	3.28 *	47 - 100	2	6.5	11.76	0.11
		Ht12_13	171	8	41	3.14 *	0 - 61	1	6.52		0.17
		Ht52_62	148	8	58	3.46 *	49 - 96	2	5.8	11.53	0.04
		Ht52_62	148	3	13	2.89	8 - 64	2	5.45	11.53	-0.04
		Cir13_18	165	8	43	3.02 *	39 - 88	1	7.11		0.72
		Cir_cum	162	8	43	3.11 *	39 - 57	1	7.8		1.32
		Cir15_18	165	8	41	2.81	29 - 90	1	6.8		0.17
		Cir18_21	164	8	43	3.52 *	31 - 60	1	8.08		0.31
		Cir21_24	164	8	44	3.42 *	30 - 52	2	8.08	13.77	0.21
		Cir21_24	164	5	47	2.67	0 - 89	2	5.15	13.77	0.17
		Cir44_52	157	5	47	3.08 *	0 - 54	1	5.81		0.11
		Cir52_62	151	10	131	2.87	7 - 132	2	6.28	15.29	-0.07
		Cir52_62	151	5	0	3.07 *	0 - 61	2	8.85	15.29	-0.09
	Growth Curve	Asym_c	163	5	47	2.68	0 - 76	1	6.85		8.54
		P_Cir14	163	6	125	3.19 *	104 - 133	1	6.45		1.69
		P_Ht26_39	163	8	41	2.83	25 - 114	1	7.18		0.05
		P_Ht39_51	163	8	41	3.32 *	30 - 58	1	7.69		0.04
		P_Ht51_59	163	8	41	3.16 *	26 - 86	1	7.61		0.03
		P_Cir14_26	163	8	44	3.37 *	40 - 55	1	7.05		0.16
		P_Cir39_51	163	8	41	2.7	0 - 88	1	5.5		0.09
		P_Cir51_59	163	5	47	2.7	0 - 79	1	6.22		0.07
<i>E. gra</i>	Cumulative growth	Ht15	169	8	64	3.57 *	24 - 68	1	6.84		-0.85
		Ht18	167	8	64	2.75	19 - 69	1	5.9		-0.83
		Ht21	165	8	39	2.65	17 - 68	1	8.89		-0.98
		Ht24	164	8	44	3.66 *	24 - 66	1	9.44		-1.11
		Ht27	163	8	41	4.32 *	24 - 49	1	11.38		-1.16
		Ht30	163	8	39	4.77 *	23 - 47	1	12.06		-1.33
		Ht34	162	2	11	2.96 *	0 - 33	2	5.81	15.98	-0.98
		Ht34	162	8	43	3.91 *	25 - 49	2	10.37	15.98	-1.38
		Ht44	160	8	22	4.2 *	19 - 41	1	11.08		-1.81

	Ht52	157	2	4	2.52	0 - 33	2	5.43	16.97	-1.63
	Ht52	157	8	26	3.69 *	19 - 65	2	10.1	16.97	-2.06
	Ht62	148	8	30	3.19 *	18 - 65	1	10.28		-2.12
	Cir7	182	4	86	3.87 *	46 - 86	1	9.89		-1.33
	Cir8	187	4	86	2.7	42 - 86	1	6.09		-1.25
	Cir24	164	8	33	2.72	17 - 65	1	10.09		-3.59
	Cir27	163	8	30	3.33 *	19 - 45	1	10.07		-3.82
	Cir30	163	8	24	3.54 *	18 - 41	1	9.44		-4.08
	Cir34	162	8	26	4.2 *	19 - 41	1	10.65		-4.6
	Cir44	160	8	24	3.72 *	18 - 38	1	11.25		-6.03
	Cir52	157	8	24	3.87 *	19 - 38	1	10.02		-6.4
	Cir62	151	8	24	3.33 *	0 - 38	1	8.8		-6.32
Growth Increment	Ht13_18	167	8	25	2.83 *	16 - 66	1	8.73		-0.38
	Ht24_30	163	8	44	3.14 *	20 - 66	1	7.9		-0.31
	Ht_cum	163	8	30	4.18 *	19 - 43	1	11.64		-0.66
	Ht11_12	179	2	0	3.25 *	0 - 14	2	5.87	14.22	-0.15
	Ht11_12	179	8	42	3.95 *	28 - 67	2	8.15	14.22	-0.17
	Ht12_13	171	4	73	2.87 *	18 - 86	2	5.83	15.01	-0.17
	Ht12_13	171	6	40	3.54 *	27 - 40	2	7.99	15.01	-0.19
	Ht13_15	169	8	32	4.85 *	19 - 44	1	13.03		-0.17
	Ht15_18	167	3	95	2.47	71 - 130	1	6.67		-0.06
	Ht21_24	164	5	86	3.29 *	76 - 105	1	7.98		-0.07
	Ht30_34	162	3	136	3.6 *	95 - 139	1	8.75		-0.07
	Ht34_44	160	8	22	3.14 *	17 - 38	1	8.68		-0.05
	Cir13_18	165	8	32	3.36 *	18 - 47	1	6.82		-0.69
	Cir24_30	163	8	26	3.37 *	18 - 42	1	8.1		-0.73
	Cir_cum	162	8	26	4.22 *	19 - 39	1	9.37		-1.42
	Cir7_8	182	5	103	3.86 *	77 - 105	1	7.82		-0.42
	Cir8_9	186	8	64	2.5	15 - 69	1	5.09		-0.35
	Cir10_11	183	8	49	3.05 *	27 - 62	1	6.34		-0.34
	Cir13_15	168	2	2	2.8 *	0 - 22	1	6.62		-0.19
	Cir18_21	164	4	36	2.76	20 - 76	2	6.62	14.44	-0.28
	Cir18_21	164	8	27	2.49	0 - 53	2	7.54	14.44	-0.29
	Cir21_24	164	8	24	4.01 *	19 - 38	1	10.75		-0.22
	Cir24_27	163	4	73	2.8 *	23 - 76	2	7.52	14.08	-0.18
	Cir24_27	163	8	26	2.64	17 - 51	2	7.29	14.08	-0.16
	Cir30_34	162	8	26	4.27 *	19 - 35	1	9.98		-0.17
	Cir34_44	160	8	26	3.53 *	0 - 38	1	9.21		-0.13
	Cir52_62	151	8	0	2.98 *	0 - 100	1	6.41		0.08
Growth Curve	Asym_c	163	8	26	3.52 *	19 - 41	2	9.45	14.82	-10.35
	Asym_c	163	10	28	2.8	22 - 46	2	4.05	14.82	-7.27
	lrc_c	163	10	24	3.65 *	21 - 36	1	8.27		0.33
	c0_c	163	10	24	3.88 *	22 - 34	1	8.06		1.09
Pred	P_Ht26	163	8	41	4.21 *	23 - 49	1	10.45		-1.21
	P_Ht39	163	8	39	4.95 *	23 - 47	1	12.47		-1.84
	P_Ht51	163	8	32	4.94 *	20 - 44	1	13.68		-2.31
	P_Ht59	163	8	27	5.19 *	19 - 40	1	12.88		-2.59
	P_Cir26	163	8	33	3.01 *	19 - 48	1	9.34		-3.47
	P_Cir39	163	8	26	4.32 *	20 - 41	1	11.1		-5.75
	P_Cir51	163	8	26	4.66 *	20 - 40	1	11.77		-7.2

	P_Cir59	163	8	24	3.98 *	19 - 39	1	11.49		-7.92
	P_Ht14_26	163	8	33	5.6 *	24 - 47	1	14.18		-0.05
	P_Ht26_39	163	8	32	5.24 *	21 - 44	1	13.15		-0.05
	P_Ht39_51	163	4	73	2.98 *	24 - 77	2	5.89	16.18	-0.03
	P_Ht39_51	163	8	23	5.32 *	19 - 34	2	10.87	16.18	-0.05
	P_Ht51_59	163	4	43	2.78	16 - 76	2	5.89	14.65	-0.03
	P_Ht51_59	163	8	22	3.58 *	19 - 38	2	7.92	14.65	-0.03
	P_Cir14_26	163	8	30	4.34 *	20 - 43	1	11.65		-0.19
	P_Cir26_39	163	4	73	2.82 *	24 - 78	2	4.96	16.79	-0.11
	P_Cir26_39	163	8	24	4.94 *	20 - 36	2	12.36	16.79	-0.17
	P_Cir39_51	163	8	23	3.64 *	0 - 36	1	10.35		-0.12
	P_Cir51_59	163	8	26	3.54 *	0 - 38	1	9.2		-0.09
Correlation										
I_{DM}	$r_{I_{DM}}$	171	2	0	2.56	0 - 21	1	5.34		-0.08