

Supplementary Tables

Suppl. Table 1: Metabolites detected by the F-test method.

C24 spec.	Col-0 spec.	Overlap
Sucrose	Serine	1 unknown (31)
Salicylic.acid	Cholesterol	
Ethanolamine	Inositol	
Maltose	Glycerol	
Tyrosine	Valine	
3 unknowns	Threonine	
	Ascorbic acid	
	5 unknowns	

Suppl. Table 2: SNP markers detected by the F-test method.

C24 spec.	Position	Col-0 spec.	Position	Overlap position	Position
MASC01171	III/57	MASC04123	IV/3	MASC03684	I/89
MASC04642	IV/56	MASC02644	II/39		
MASC01582	V/54	MASC04394	V/76		
MASC03911	I/22	MASC03758	I/9		
MASC00371	II/70	MASC04170	I/72		
MASC04983	V/38	MASC05312	III/5		
MASC09216	IV/75	MASC01545	V/79		
MASC04275	V/49				

Suppl. Table 3: Detected by the F-test method SNP and metabolite markers. Markers robust against small changes are labelled with an asterisk.

C24 spec.	Col-0 spec	Overlap
*Salicylic.acid	*MASC04123	*MASC03684
*Ethanolamine	Fructose.6.phosphate	*1unknown (31)
*MASC01171	Maltose	
*MASC04642	Serine	
Putrescine	MASC02644	
*MASC01582	Sinapic acid	
*MASC09222	Cholesterol	
Glucose.1.phosphate	6 unknowns	
MASC03911		
1 unknown		

Suppl. Table 4: Testcross QTLs. Dry weight 15 DAS (DW15). QTL peak on chromosome, support interval (SI), SNP markers IDs left of the peak, Standard effects, LOD scores, explained variance in percent pR2 .

trait	QTL	peak	SI	Left_Mark	LOD	pR2	Std.eff.
DW15	TC-C24	1/90	86-94	MASC03684	9,94	11,31	-0,31
DW15	TC-C24	2/28	26-32	MASC05657	2,35	2,06	0,07
DW15	TC-C24	2/56	52-62	MASC09222	4,33	5,06	-0,20
DW15	TC-C24	3/56	54-64	MASC04819	11,68	12,14	-0,37
DW15	TC-C24	4/56	50-60	MASC02548	6,15	6,90	-0,24
DW15	TC-C24	5/56	50-60	MASC01582	3,36	3,81	-0,18
DW15	TC-Col	1/90	82-90	MASC03684	2,67	2,65	0,07
DW15	TC-Col	4/6	2-10	MASC04123	11,22	10,90	0,36

Suppl. Table 5: Robust markers. The feature selection was performed for 100 bootstrap sample. The frequency of detection for those markers, which are 90 times or more selected , is listed for both effects (C24 and Col-0).

C24		Col-0	
Marker	Frequency	Marker	Frequency
MASC04642	100	MASC04123	100
MASC03684	97	Unknown 79	96
MASC01582	95	Unknown 31	95
MASC01171	93	Unknown 82	91
MASC04725	93		
MACS09222	92		
Psicose	92		
Unknown 31	90		