

Table S1. 96-well liquid mapping number of F2 segregants used

Strain	Set	Direct Mapping number of F2s (chosen/total)	% F2s Picked	Mapping observations
VC50352	2	37/362	10.22	Clear peak by F10 but carried to F14. Direct mapping locus only fixates to 20%.
VC50255	1	66/440	15.00	Clearest interval by F9. Direct mapping has very broad interval across most of LGIII.
VC50375	1	109/453	24.06	Clear peak at F7 but also matched in amplitude by 4 other peaks. Direct map resolved chromosome but with poor resolution.
VC50028	3	No Data	No Data	Quick fixation observed on LGII to 80% by F6 but does not improve even at F15. Direct mapping mirrored exact interval.
VC50031	3	72/737	9.76	Clear interval on LGV by F7 but best at F9. Direct mapping has high signal noise but confirms LGV.
VC50141	3	75/387	19.37	Mapping doesn't clarify until between F8 and F12. Direct mapping fixates to ~30% on each locus.
VC50360	2	98/439	22.32	Clearest interval on LGV by F10. Direct mapping confirms but with a very broad interval across most of LGV.
VC50374	2	15/384	3.90	Clear interval on LGIV by F5 but best fixation by F9. Direct mapping managed to identify the interval with 15 F2s.
VC50380	2	42/384	10.93	Somewhat clear peak on LGX by F5 but reached fixation at F9 with 3 additional strong intervals. Direct mapping confirmed LGX with good resolution.