Table S1: properties of EM-seq libraries sequenced in this study

Sample	Tissue	Cycles	Total reads	Total reads after QC	Uniquely mapping reads after deduplication	% Reads uniquely mapping	Conversion rate
met1-3 heterozygote	leaf	150x150	60,407,565	57,704,567	30,318,827	52.6	99.998
met1-3 WT segregant, line 1 F2	leaf	150x150	59,741,235	56,772,575	32,355,357	57.1	99.9978
met1-3 WT segregant, line 1 F3	leaf	150x150	53,407,468	53,362,670	22,649,572	42.4	99.999
met1-3 WT segregant, line 2 F2	leaf	150x150	50,522,623	50,465,956	25,117,695	40	99.9989
met1-3 WT segregant, line 2 F3	leaf	150x150	57,417,384	55,601,549	32,596,017	58.6	99.9978
met1-3 WT segregant, line 3 F2	leaf	150x150	54,398,483	54,337,350	24,958,077	45.9	99.999
met1-3 WT segregant, line 3 F3	leaf	150x150	55,237,611	55,193,429	26,779,936	48.5	99.9989