

Table S1. Summary of the analysis result for high order LD scans.

		Raw data				Filter one way r2 >0.6			
		cis-cis	cis-trans	trans-trans	Total	cis-cis	cis-trans	trans-trans	Total
Pair 1	Num of calculations	9.21e+10	2.64e+11	2.11e+11	5.68e+11	6.46e+10	1.84e+11	1.45e+11	3.94e+11
	Hits								
	100	54236	75479	1938	131653	38358	51809	1933	92100
Pair 2	728	38744	53654	81	92479	21680	28457	26	50163
	Num of calculations	3.35e+10	1.40e+11	1.59e+11	3.33e+11	2.20e+10	9.35e+10	1.07e+11	2.23e+11
	Hits								
Pair 3	100	52900	76209	1120	130229	39176	48399	1120	88695
	728	31354	48345	2	79701	18351	24295	2	42648
	Num of calculations	3.35e+10	1.37e+11	1.52e+11	3.22e+11	2.20e+10	9.12e+10	1.02e+11	2.15e+11
Total	Hits								
	100	48050	67786	415	116251	33309	49782	0	83091
	728	33309	49782	0	83091	19609	23290	0	42899
Genome	Num of calculation	1.592e+11	5.426e+11	5.227e+11	1.224e+12	1.088e+11	3.694e+11	3.555e+11	8.337e+11
	Hits								
	100 mean/sd.er	9677673/5317336	386500271/179449513	161921921/3943330	/	9092135/5258931	325828262/154851233	167549625/16648189	/
	728 mean/sd.er	6315806/3310607	265911259/120350459	3390052/2592970	/	4589735/2528037	162260386/71413958	1395341/924728	/