a

Expression Heat Map

samples

genes

kME	kIN	GS.trait	GS.SNP
0.98	6.1	0.70	0.85
0.97	5.7	0.60	0.69
0.99	6.4	0.66	0.79
0.97	5.6	0.49	0.71
0.94	4.7	0.79	0.86
0.96	5.2	0.56	0.78
0.95	5.2	0.43	0.70
0.95	5.2	0.54	0.73
0.99	6.2	0.62	0.77
0.85	2.6	0.63	0.79

power = 10

trait	1	1	1	1	2	2
SNP	2	2	1	1	0	0
	AA	AA	AB	AB	BB	BB
ME	0.44	0.41	0.37	-0.41	-0.33	-0.48

b ME

c Module Seed

Supplementary Fig. 2: a) Expression heat map of a simulated module containing 6 arrays and 10 genes. kME, kIN, GS.trait (gene significance measure for the trait), and GS.SNP values for corresponding genes are shown to the right. Trait, SNP and ME values are shown at the bottom, with additive marker coding depicted for each of the simulated genotypes. Genes with high

similarity to the module eigengene have higher connectivity. b) Module eigengenes calculated from the simulated module. c) Module seed values for each of the 6 arrays.