

**Table S3 Primers used in analysis of polymorphic markers**

SGD coordinates for polymorphic site <sup>1</sup>	Primer name	Primer sequence (5' to 3')	Diagnostic restriction enzyme <sup>2</sup>
IV 1002467	IV 1002467 F1	TGCAGGGATATGTATAACGAGGT	<b>HpyCH4III</b>
	IV 1002467 R2	CAACGTTGTGAAGTGGTTGG	
IV 1011936	IV 1011936 F4	TCCTACGATCGTACAATCCCG	<b>MnlI</b>
	IV 1011936 R1	CCTCGTACATGTTTTCTTGCC	
IV 1013924	IV 1013924 F3	GCGACTGGTGGTAAGAAAAGG	<b>MluCI</b>
	IV 1013924 R1	AAACCCGAGACAGCGAGAGG	
IV 1022417	IV1022417 F2	CAAGTTTGGTATGGCAGTTGAC	<i>MlyI</i>
	IV 1022417 R1	GACTCGTCTTGTATGGCG	
IV 1028509	IV 1028509 F2	CCGAACGGTTATGGTATCTCC	<i>EarI</i>
	IV 1028509 R3	GCAACAGCGCGTATTTGG	
IV 1037347	IV 1037347 F1	GCCAAGATCGTTAAAGAGAATCC	<i>HpyCH4V</i>
	IV 1037347 R1	AGCAATCTTTGAACCATCGC	
IV 1044571	IV 1044571 F3	GGCTACTATTGTGGCTGTTGG	<i>Sau3AI</i>
	IV 1044571 R1	ACTACGTCGATATTCTTCAGGG	
IV 1051452	IV 1051452 F1	TCATGCCAAAGTAATAAGCAGC	<i>MspI</i>
	IV 1051452 R1	TGAGCGCTAAAATGTATGCC	
IV 1058335	IV 1058335 F1	TGCCTGGATACACGAACATATATATG	<i>AfeI</i>
	IV 1058335 R1	CGGTGAGATTGTTGCGGTGTT	

<sup>1</sup>Current (2014) SGD coordinates.

<sup>2</sup>Bold-faced type indicates that the SNP in the W303-1A genetic background had the indicated restriction site. Plain-faced type indicates that the SNP in the YJM789 background had the site.