

**TABLE S2 Qualitative crossover data for the  $bb^{M3}$  set of crossover minichromosomes**

marker	crossover minichromosome:									
	m3	m5	m9	m4	m8	m2	m6	m10	m7	m1
R2916	+	+	+							
R2784	+	+	+	+	+	+				
R2166	+	+	+	+	+	+	+	+	+	
R2059	+	+	+	+	+	+	+	+	+	+
R1767	+									
R1355	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
R0963	+	+	+	+	+	+	+	+		
R0910	+	+	+	+	+	+	+	+		
R0750	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
S3887	+	+	+	+	+	+	+	+	+	+
S3542	+	+	+	+	+	+	+	+	+	+
S3518	+	+	+	+	+	+	+	+	+	+
S3266	+	+	+	+	+	+				
S3079	+	+	+	+	+	+	+	+	+	+
S3030	+	+	+	+	+	+	+	+	+	+
S2876	+	+	+	+	+	+	+	+	+	+
S2785	+	+	+	+	+	+	+	+	+	+

The presence of nine R2/1 and eight IGS markers was scored for the *Rex*-magnified  $bb^{M3}$  crossover set (Figure S2). The minichromosomes are listed from left to right based on the number of markers carried; minichromosomes produced by more distal exchanges carry more markers than those produced by more proximal exchanges. The gel image did not permit scoring two markers.

+ = marker present

nc = marker not classifiable