

Mo17	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACA <b>G</b> CAATATCCAGCAAGGTCC
IBM003	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACA <b>G</b> CAATATCCAGCAAGGTCC
IBM097	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACA <b>G</b> CAATATCCAGCAAGGTCC
IBM182	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACA <b>G</b> CAATATCCAGCAAGGTCC
IBM270	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACA <b>G</b> CAATATCCAGCAAGGTCC
IBM304	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACA <b>G</b> CAATATCCAGCAAGGTCC
B73	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACAACAATATCCAGCAAGGTCC
IBM009	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACAACAATATCCAGCAAGGTCC
IBM062	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACAACAATATCCAGCAAGGTCC
IBM144	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACAACAATATCCAGCAAGGTCC
IBM234	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACAACAATATCCAGCAAGGTCC
IBM327	CAACCACAACCACAGGTGGTTCAACAACAGCAGCAGTACAACAATATCCAGCAAGGTCC

**Figure S1** Sequence alignment of fragment 1 (F1) among parents and selected DH lines of the IBM Syn10 DH population. IBM003, IBM097, IBM182, IBM270, and IBM304 in green rectangular are high-REC lines, and IBM009, IBM062, IBM090, IBM144, IBM234, and IBM327 in blue rectangular are low-REC lines. The bases in red boxes represent the SNP locus in F1.