

Mo17	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGCGGGCCGGGCATCGGCCCGGCGAGCGCCACGGCCACTGTTGCGC
IBM003	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGCGGGCCGGGCATCGGCCCGGCGAGCGCCACGGCCACTGTTGCGC
IBM097	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGCGGGCCGGGCATCGGCCCGGCGAGCGCCACGGCCACTGTTGCGC
IBM182	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGCGGGCCGGGCATCGGCCCGGCGAGCGCCACGGCCACTGTTGCGC
IBM270	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGCGGGCCGGGCATCGGCCCGGCGAGCGCCACGGCCACTGTTGCGC
IBM304	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGCGGGCCGGGCATCGGCCCGGCGAGCGCCACGGCCACTGTTGCGC
B73	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGGTGGCCGGGCATCCGCGCGGCGAGCGCCACGGCCACTGTTGCGC
IBM009	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGGTGGCCGGGCATCCGCGCGGCGAGCGCCACGGCCACTGTTGCGC
IBM062	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGGTGGCCGGGCATCCGCGCGGCGAGCGCCACGGCCACTGTTGCGC
IBM144	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGGTGGCCGGGCATCCGCGCGGCGAGCGCCACGGCCACTGTTGCGC
IBM234	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGGTGGCCGGGCATCCGCGCGGCGAGCGCCACGGCCACTGTTGCGC
IBM327	TCCTTCGCTGCGGCCAAGTGCCAGCCGGTGGGTGGCCGGGCATCCGCGCGGCGAGCGCCACGGCCACTGTTGCGC

**Figure S6** Sequence alignment of fragment 6 (F6) 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 F6.