

Mo17	CGCGGCTGCGATTTC AAGTAGTTACGAGGCTGTCA TAGTGAATCGTCTGATCGATT CATGATCTAGATTTCACGTGAGG
IBM003	CGCGGCTGCGATTTC AAGTAGTTACGAGGCTGTCA TAGTGAATCGTCTGATCGATT CATGATCTAGATTTCACGTGAGG
IBM097	CGCGGCTGCGATTTC AAGTAGTTACGAGGCTGTCA TAGTGAATCGTCTGATCGATT CATGATCTAGATTTCACGTGAGG
IBM182	CGCGGCTGCGATTTC AAGTAGTTACGAGGCTGTCA TAGTGAATCGTCTGATCGATT CATGATCTAGATTTCACGTGAGG
IBM270	CGCGGCTGCGATTTC AAGTAGTTACGAGGCTGTCA TAGTGAATCGTCTGATCGATT CATGATCTAGATTTCACGTGAGG
IBM304	CGCGGCTGCGATTTC AAGTAGTTACGAGGCTGTCA TAGTGAATCGTCTGATCGATT CATGATCTAGATTTCACGTGAGG
B73	CGCGGCTGCGCTTTCAAGTACTTACGAGGCTGTCAAAGTGAATCGTCTGATCGATT CATGATCTAGACTTCACGTGAGG
IBM009	CGCGGCTGCGCTTTCAAGTACTTACGAGGCTGTCAAAGTGAATCGTCTGATCGATT CATGATCTAGACTTCACGTGAGG
IBM062	CGCGGCTGCGCTTTCAAGTACTTACGAGGCTGTCAAAGTGAATCGTCTGATCGATT CATGATCTAGACTTCACGTGAGG
IBM144	CGCGGCTGCGCTTTCAAGTACTTACGAGGCTGTCAAAGTGAATCGTCTGATCGATT CATGATCTAGACTTCACGTGAGG
IBM234	CGCGGCTGCGCTTTCAAGTACTTACGAGGCTGTCAAAGTGAATCGTCTGATCGATT CATGATCTAGACTTCACGTGAGG
IBM327	CGCGGCTGCGCTTTCAAGTACTTACGAGGCTGTCAAAGTGAATCGTCTGATCGATT CATGATCTAGACTTCACGTGAGG

**Figure S3** Sequence alignment of fragment 3 (F3) 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 F3.