

Mo17	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAG---GACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM003	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAG---GACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM097	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAG---GACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM182	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM270	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAG---GACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM304	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAG---GACAGGGTACATACACTACACGACTTGTGTTCCATAG
B73	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM009	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM062	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM144	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM234	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG
IBM327	TCGGCCGACGCCAGATTCCACCCCCAACTACTACAGCAGCAGGACAGGGTACATACACTACACGACTTGTGTTCCATAG

**Figure S10** Sequence alignment of fragment 10 (F10) 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 F10.