

**SI Table 5. Chromosome 6 quantitative trait loci (QTL) for regions conditioning designated traits and heterotic loci (HL)<sup>a</sup> described in mapping studies of parental varieties, Minghui 63 and Zhenshan 97B.**

Flanking Molecular Markers		Physical Coordinates of QTL and HL Regions		Trait	Reference
5'	3'	5'	3'		
R2869	C474	642735	699380	area of third leaf	(35)
R2147	RZ667	6520988	6928404	number of vascular bundles	(35)
RZ667	RM222	6928404	15578596	area of third flag leaf per spikelet	(35)
C952	Waxy	1355154	1764623	root to shoot ratio	(36)
R1952A	R2749	2260721	2573853	root number	(36)
C764	RM225	2770460	3416533	plant height	(36)
R2549	C962	24916395	28638436	root fresh weight	(36)
R2549	C962	24916395	28638436	root number	(36)
RG653	G342	29027995	30822714	plant height	(36)
C474	R3139	699380	1370856	water absorption of cooked rice	(37)
Waxy	C1946	1764623	2090440	length elongation of cooked rice	(37)
Waxy	C1946	1764623	2090440	length of cooked rice	(37)
Waxy	C1946	1764623	2090440	width expansion of cooked rice	(37)
R2869	C474	642735	699380	shoot weight	(38)
C952	Waxy	1355154	1764623	amylose content	(39)
C952	Waxy	1355154	1764623	gel consistency	(39)
R2869	C474	642735	699380	thousand grain weight	(40)
Waxy	RM225	1764623	3416533	tillers per plant	(40)
C1496	RM204	2090558	3168374	tillers per plant	(40)

<sup>a</sup>Heterotic loci are chromosomal regions associated with high yield performance in heterozygous vs homozygous plants (40)