

Table 4 QTL for yield and yield-related traits detected in the BC₃F₁ and BC₃F₃ populations

QTL	Chr.	Marker Interval	BC ₃ F ₁ families in Guangzhou 2007			BC ₃ F ₃ families in Guangzhou 2008		
			LOD score	Additive effect	R ² (%)	LOD score	Additive effect	R ² (%)
Productive panicle number								
<i>qPPN-1-1</i>	1	RM84-RM490	2.40	1.89	7.90			
<i>qPPN-2-1</i>	2	RM341-RM106	5.70	9.35	28.89			
<i>qPPN-3-1</i>	3	RM282-RM49				10.34	10.78	40.51
<i>qPPN-7-1</i>	7	RM82-RM1134	2.77	1.28	4.63	3.93	0.98	15.48
Seed set percentage								
<i>qSSP-10-1</i>	10	RM222-RM4915	2.85	-4.86	4.76	2.77	-1.06	10.97
<i>qSSP-11-1</i>	11	RM202-RM287				4.50	-8.82	23.80
<i>qSSP-12-1</i>	12	RM6288-RM6296	2.95	-5.08	5.58			
Grain yield per panicle								
<i>qGY-2-1</i>	2	RM110-RM211	3.66	-0.49	10.01	2.38	-0.48	8.40
<i>qGY-4-1</i>	4	RM348-RM349				2.70	0.56	15.65
<i>qGY-10-1</i>	10	RM7492-RM222	2.63	0.38	5.49			
Grain yield per plant								
<i>qGYP-1-1</i>	1	RM581-RM24	2.02	3.68	3.29	3.29	4.19	19.63
<i>qGYP-2-1</i>	2	RM110-RM211	5.29	10.87	16.34			
<i>qGYP-3-1</i>	3	RM282-RM49				9.92	13.31	24.04
Grain number per plant								
<i>qGNP-1-1</i>	1	RM84-RM490	2.16	330.01	5.32			
<i>qGNP-2-1</i>	2	RM110-RM211	4.86	684.72	17.23			
<i>qGNP-2-2</i>	2	RM341-RM106	4.43	837.64	33.44			
Spikelet number per plant								
<i>qSNP-2-1</i>	2	RM110-RM211	5.12	819.87	16.67			
<i>qSNP-2-2</i>	2	RM341-RM106	8.51	1073.85	31.15			