

Supplemental Table S3. Detailed list of 40 QTLs for 27 agronomic traits detected in the 51 Nipponbare/Koshihikari BILs selected by genotypes of nearest markers for the two main heading date QTLs

Trait name	Institute	Marker Interval	Chr.	LOD	PVE	AE	Nearby QTL
Leaf color after transplanting in paddy field (LCP)	NICS	RM5479-NIAS_Os_aa12005228	12	4.6	22.8	-0.3	
Leaf color at maximum tiller number stage (LCM)	NICS	NIAS_Os_aa07000396-NIAS_Os_aa07000458	7	3.6	19.5	0.3	
Leaf width at maximum tiller number stage (LWM)	KARC	NIAS_Os_aa07002248-NIAS_Os_aa07002331	7	3.3	11.1	-0.1	
	NARCHRC	NIAS_Os_aa10002796-RM1859	10	5.9	25.8	0.3	
Leaf color at heading date (LCH)	NICS	NIAS_Os_aa03000943-NIAS_Os_aa03001017	3	3.9	20.3	-0.3	
Culm length (CL)	NICS	RM6331-RM1320	1	6.8	32.4	-3.6	<i>qCL1</i> [†]
	NARCHRC	RM7365-NIAS_Os_aa03000782	3	3.9	21.3	-2.6	<i>qCL3-1</i> [†]
Culm stiffness (CSF)	NARCHRC	RM1284-RM5178	3	4.1	20.0	-0.6	
Lodging degree (LD)	NICS	NIAS_Os_aa04007307-NIAS_Os_aa04007380	4	6.3	35.2	-0.7	
	NARCHRC	NIAS_Os_aa10003122-NIAS_Os_aa10003343	10	4.4	23.3	-0.1	
Number of panicles (NOP)	NARCHRC	RM7365-NIAS_Os_aa03000782	3	5.9	31.3	-0.8	
Flag leaf length (FLL)	NARCHRC	NIAS_Os_aa04002834-NIAS_Os_aa04003265	4	4.1	23.7	-0.5	
Flag leaf: angle of leaf blade (FLA)	KARC	RM7365-NIAS_Os_aa03000782	3	6.2	30.3	-0.7	[†]
	NICS	RM7365-NIAS_Os_aa03000782	3	8.9	46.3	-0.8	[†]
Panicle exertion length (PEL)	KARC	RM10078-NIAS_Os_aa01000431	1	4.5	16.0	-0.7	<i>qCL1</i> [†]
	NICS	RM4959-RM1282	1	4.2	18.3	-0.4	<i>qCL1</i> [†]
Presence of awns (POA)	NARCHRC	RM14311-RM3372	3	7.8	37.9	1.1	
Awn length (AL)	NICS	RM14311-RM3372	3	15.0	56.9	0.4	[†]
Senescence (SNC)	NICS	NIAS_Os_aa11002433-NIAS_Os_aa11002529	11	4.3	22.3	-0.3	[†]
	NARCHRC	RM3873-B1066G12	1	6.1	24.1	0.5	
	NARCHRC	NIAS_Os_aa08000907-NIAS_Os_aa08001066	8	5.6	21.6	-0.4	
Pre-harvest sprouting resistance (PHS)	NARCHRC	RM14240-RM7332	3	8.8	44.6	0.6	<i>qLTG3-1</i> [†]
Aboveground dry weight (ADW)	NICS	RM7365-NIAS_Os_aa03000782	3	4.2	22.3	-4.3	
Head brown rice weight (HBW)	NICS	NIAS_Os_aa03000545-RM1284	3	4.0	19.6	-17.2	
1000-grain weight (TGW)	NICS	RM3779-RM4996	3	5.2	20.5	-0.4	
	NARCHRC	NIAS_Os_aa07005384-NIAS_Os_aa07007604	7	5.0	17.9	-0.4	
Protein content of brown rice (PCB)	NICS	RM6375-NIAS_Os_aa02000772	2	3.8	17.8	-0.2	[†]
Grain appearance (GA)	KARC	RM3372-RM7072	3	4.8	19.7	-0.4	
	NARCHRC	NIAS_Os_aa11012252-NIAS_Os_aa11003517	11	4.2	20.0	0.4	
Degree of occurrence of white-back and white-based kernels (DWK)	KARC	NIAS_Os_aa08005354-NIAS_Os_aa08006464	8	5.9	29.3	0.9	[†]
	NARCHRC	NIAS_Os_aa11012252-NIAS_Os_aa11003517	11	5.7	27.4	0.8	[†]
Normal kernel ratio (NKR)	NICS	NIAS_Os_aa07007132-NIAS_Os_aa07007267	7	4.4	22.0	1.8	[†]
	NARCHRC	NIAS_Os_aa11002529-NIAS_Os_aa11002695	11	5.4	27.9	-2.7	
White-backed and white-based kernel ratio (WKR)	NARCHRC	NIAS_Os_aa03002146-NIAS_Os_aa03002208	3	7.8	33.9	1.2	
Milky-white kernel ratio (MWR)	NICS	NIAS_Os_aa03000864-NIAS_Os_aa03000943	3	3.6	18.7	0.3	
Leaf blast resistance (LBR)	AARCMARI	NIAS_Os_aa01008361-NIAS_Os_aa01008754	1	3.8	17.6	-0.5	[†]
Panicle blast resistance (PBR)	NARCHRC	NIAS_Os_aa01008968-RM1349	1	4.2	14.3	-0.6	
	NARCHRC	RM14275-RM4108	3	6.3	23.8	-0.6	[†]
	NARCHRC	NIAS_Os_aa07006550-NIAS_Os_aa07006642	7	5.2	19.0	0.6	[†]
Bacterial leaf blight resistance (BLB)	MARI	NIAS_Os_aa12001721-NIAS_Os_aa12001813	12	4.1	19.0	-0.6	[†]

All genetic parameters were calculated by QTL Cartographer ver. 2.5 (Basten *et al.* 2005).

LOD: Log-likelihood value

PVE: Percentage of total phenotypic variance explained by the QTL

AE: Additive effect of Nipponbare allele

Nearby QTL: QTLs located near those previously detected in the same BILs by Matsubara *et al.* (2008) (*Hd16* and *Hd17*), Hori *et al.* (2009) (*qCL1* and *qCL3-1*) and Hori *et al.* (2010) (*qLTG3-1*). [†] indicates the QTLs located near those detected in the 100 BILs.