Table S1. The markers used in this study.

Name	Primer		Purpose
	Forward (5'-3')	**Reverse (5'-3')**	
RM14189	CGAGGTGGAGTACCACCATTGC	CACCTGAAGATGCTGTCCATGC	Mapping
Tw35277	CGTAAGCCAGAAAGTCTTCA	ATTGAGCCACATCACCTA	Mapping
Tw35293	TCACGTTGACATAAGTGG	ATTATTTGTCACTGATAGGT	Mapping
Tw35377	CGGACATTTTCGTTTAGC	ACTTGATCAAATTAGATACAGTTT	Mapping
Tw35395	AAAATGACCTGATCCCAA	GGCAAGCATGTTAACTCTG	Mapping
RM266	TAGTTTAACCAAGACTCTC	GGTTGAACCCAAATCTGCA	Mapping
Actin1	AAATGGAGACTGCCAAGACC	ATGAAGGAAGGCTGGAAGAG	qRT-PCR
qRT-660	GGCACATTCTATCCAAA	CTGAAGATTCCCGAGTT	qRT-PCR
Se-630	TCCCGGTGAGCATCCGCATC	ACCCCAGTAACCCATGAACGTA	Sequencing
Se-660	ACAGGACGTGTACTACAACGA	AGCATGATGTACACATTGGCTA	Sequencing

Table S2. Annotated genes in the *qTGW2* region.

Locus ID		**Physical position**		**Putative function**
		Start (bp)	End (bp)	
LOC_Os02g57630	LOC_Os02g57630	35,293,411	35,296,557	ubiquitin carboxyl-terminal hydrolase, family 1
LOC_Os02g57640	LOC_Os02g57640	35,297,556	35,302,263	KH domain containing protein
LOC_Os02g57650	LOC_Os02g57650	35,303,193	35,307,280	No apical meristem protein
LOC_Os02g57660	LOC_Os02g57660	35,307,392	35,313,635	phosphatidylinositol-4-phosphate 5-kinase
LOC_Os02g57670	LOC_Os02g57670	35,320,313	35,322,987	ribosomal L9
LOC_Os02g57690	LOC_Os02g57690	35,325,611	35,331,920	kelch repeat protein
LOC_Os02g57700	LOC_Os02g57700	35,334,956	35,340,821	protein kinase
LOC_Os02g57710	LOC_Os02g57710	35,341,719	35,347,457	signal peptide peptidase-like 2B
LOC_Os02g57720	LOC_Os02g57720	35,349,673	35,351,454	aquaporin protein
LOC_Os02g57730	LOC_Os02g57730	35,351,941	35,353,706	hypothetical protein
LOC_Os02g57740	LOC_Os02g57740	35,355,316	35,357,125	expressed protein
LOC_Os02g57750	LOC_Os02g57750	35,362,824	35,368,901	protein binding protein
LOC_Os02g57760	LOC_Os02g57760	35,370,515	35,373,858	O-methyltransferase

Table S3. Haplotypes of *qTGW2* in rice germplasms.

Haplotype	INDEL	Sum	Jap	Ind	Inter	Aro	AUS
Hap1	DEL	2579	1467	2135	81	94	269
Hap2	T	629	45	618	9	2	0

Ind, *indica* germplasms; Jap, *japonica* germplasms; Inter, intermediate germplasms; Aro, aromatic.