

## Supplementary materials

### ***PGL3* is required for chlorophyll synthesis and impacts leaf senescence in rice**

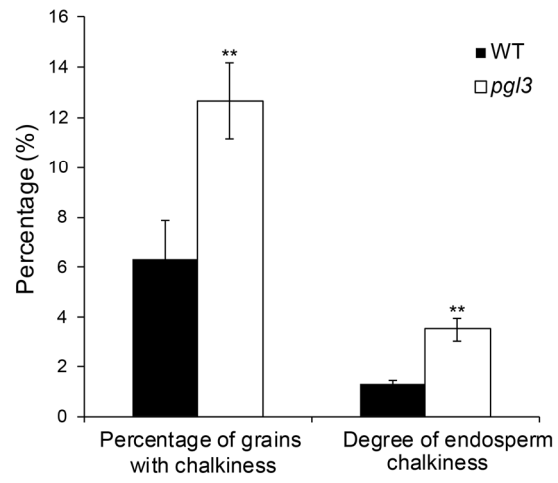
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**Table S1 Molecular markers used for mapping of the mutation**

Primers	Forward 5'–3'	Reverse 5'–3'
RM22	GTTGACAAACAGGCCCTGAAACC	GTATGGTCTGGAGACGACGATCC
RM14341	GCAGATCATAATGGTTCAGAGTGC	GTACACGCAGATGGTTGATCG
RM14359	CATCGAGATTGCTGAGATAGTGC	TGAGCAGAAGGATGGGACTTAGG
RM5474	AAAGTGTTGGTGAGCATAGC	TTTGTTGGAGAGACGAG
Y1	GTGCATTAATACTAGCCGCTTCT	CAGAAGAGTGGTAATTGGGCTTG
Y2	GTATACTACCCGAAATTGTCACGC	TCTGTGAGTTTGGGATGGTAGAT
Y3	GGAATGATGGTTCGCTTCTAGAG	AAACCCTTAAGCGGAACTGAAAA

**Table S2 List of genes used for real-time PCR analysis**

Gene	Forward 5'–3'	Reverse 5'–3'	Accession No.
<i>actin</i>	AGGAAGGCTGGAAGAGGACC	CGGGAAATTGTGAGGGACAT	LOC_Os03g50885
<i>DVR</i>	AGCCAGGTTCAATCAAGGT	TGATCACCTCTCGAAGAACT	LOC_Os03g22780
<i>PGL3</i>	CCTTTCCGGCTTCGTCTCC	CCTTGCTCGCTGGGTTTCTT	LOC_Os03g03990
<i>PORA</i>	ATGGCTCTCCAAGTTCAG	TGGCTCACGCTAAGGAAC	LOC_Os04g58200
<i>OsAPX1</i>	AGGTGCCACAAGGAAAGATCTGGT	TCAGCAGGGCTTTGTCCTAGGAA	LOC_Os03g17690
<i>OsAPX2</i>	TGGGAAGATGCCACAAGGAGAGAT	TCCGCAGCATATTTCTCCACCAGT	LOC_Os07g49400
<i>OsCatB</i>	GCTTGCTTTCTGCCCAGCGATAAT	AAATAGTTTGGGCCAAGACGGTGC	LOC_Os06g51150
<i>OsPOD1</i>	ACGTCGGGGTCGCCAACAAC	CGAACTCGTCCACCGACGCC	LOC_Os01g22370
<i>OsPOD2</i>	AGGCTCAACTGCTCCAGGGTCA	TGGCAATAAACCGGACAAGCCCT	LOC_Os03g22010
<i>OsAMTR1</i>	CCTGGTGATCTGAAGGTTGT	CATGGCAACCAGTGTAAGC	LOC_Os05g39770



**Fig. S1** Rice quality traits in WT and *pg13*