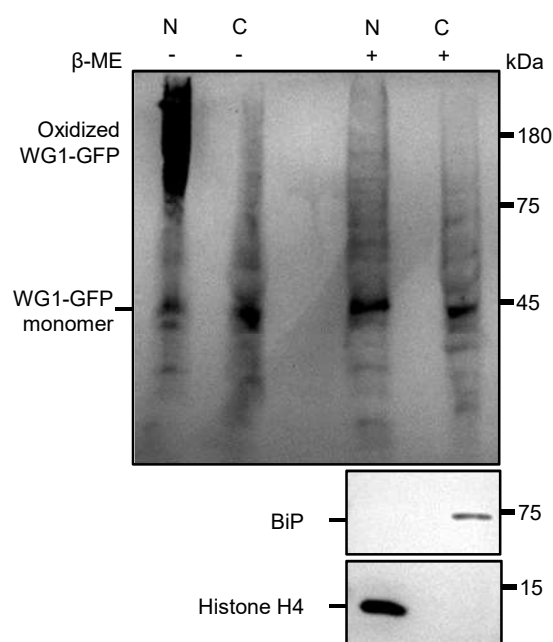


**Appendix for “Redox regulation of G protein oligomerization and signaling by
the glutaredoxin WG1 controls grain size in rice”**

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Appendix Figure S1. Subcellular fractionation and immunoblot assays using reducing and non-reducing gels.

10-day old young seedlings of *proWG1:WG1-GFP* plants were used to isolate the nuclear protein fraction (N) and the cytoplasmic protein fraction (C). WG1-GFP proteins in both fractions were analyzed using reducing (with 33% β-ME) and non-reducing gels immunoblotted with an antibody against GFP. BiP, a luminal-binding protein, was used as cytoplasmic marker. Histone H4 was used as nuclear marker.

Appendix Table S1. List of primers used in this study.

<i>Primers for constructs</i>	
Construct name	Primers sequences (F: Forward R: Reverse)
<i>SK-gRNA-GS3N</i>	F: ggcaCCGGCGCCGCCGACCCATG R: aaacCATGGGTCTGGGCGGCGCCGG
<i>pro35S:MYC-WG1</i>	F: cgaaatcgatggatcctaATGCAGTACGGAGCGGCGGC R: gagtcactagttaattaaCTAGAGCCAGAGCGCGCC
<i>pro35S:MYC-WG1^{C46,49S}</i>	F: ctgaagaggacttgaattcggtacccATGCAGTACGGAGCGGCG R: aagacgcgtcctaggctacgttaggatccaCTAGAGCCAGAGCGCGCCGG
<i>pro35S:GFP-GS3</i>	F: tgaactatacaaaaggcgcgcccaATGGCAATGGCGGCGGCG R: ctctagaactagttaattaaTCACAAGCAGGGGGGGCAGC
<i>AD-GS3</i>	F: gccatggaggccagtgaaattcATGGCAATGGCGGCGGCG R: attcatctgcagctcgagctcgTCACAAGCAGGGGGGGCAGC
<i>AD-GS3¹⁻⁹⁴</i>	F: gccatggaggccagtgaaattcATGGCAATGGCGGCGGCGCC R: attcatctgcagctcgagctcgTCATCTGCACAAACAGCGAAACT
<i>AD-GS3⁹⁵⁻²³²</i>	F: gccatggaggccagtgaaattcGCAAGTGCCTGCTGCCTCAGCTA R: attcatctgcagctcgagctcgTCACAAGCAGGGGGGGCAGCA
<i>AD-WG1^{C46,49S}</i>	F: gccatggaggccagtgaaattcATGCAGTACGGAGCGGCG R: attcatctgcagctcgagctcgCTAGAGCCAGAGCGCGCCG G1M-F: CGTGAGACATGCAAGAGCTGCTCACGCTGAACACCACCAC G1M-R: CAGCTCTTGCATGTCTCACGCCGTGAAGCGCCTCTTCTGC
<i>BD-GS3</i>	F: aggacctgcatatggccatggagATGGCAATGGCGGCGGCG R: ctagttagcgcccgctgcaggTCACAAGCAGGGGGGGCAGC
<i>cYFP-GS3</i>	F: TGA CTATGCGTCGACATATGAGCTCATGGCAATGGCGGCGGCGCC R: agtcactatggtcgaTCACAAGCAGGGGGGGCAGC YC3-F: cacgggggactctag ATGGCCGACAAGCAGAAGAAC YC3-R: GAGCTCATATGTCGACGCATAGTCAGGAACATCGT
<i>nYFP-GS3</i>	F: gaggaagagtatatgcctatggaaATGGCAATGGCGGCGGCG R: agtcactatggtcgaTCACAAGCAGGGGGGGCAGC YN3-F: cacgggggactctagATGGTGAGCAAGGGCGAGGAG YN3-R: ttccatagcatatactcttctc
<i>nYFP-WG1</i>	F: gaggaagagtatatgcctatggaaATGCAGTACGGAGCGGCG R: agtcactatggtcgaCTAGAGCCAGAGCGCGCCG YN1F: cacgggggactctagATGGTGAGCAAGGGCGAGGAG YN1R: ttccatagcatatactcttctc
<i>MBP-GS3</i>	F: agggaaagatttcagaattcATGGCAATGGCGGCGGCGCC R: agtgccaagcttgctgcagTCACAAGCAGGGGGGGCAGC
<i>MBP-FLAG</i>	F: GATCCgactacaaggacgacgatgacaaaTGAA R: AGCTTTCAttgtcatcgtcgtcctttagtcG
<i>GST-RGB1</i>	F: atctggttccgctggatccATGGCGTCCGTGGCGGAGCT R: agtcagtcacgatggcgccgctcTCAA ACTATTTTCCGGTGTC
<i>cLUC-GS3</i>	F: ggggcggtacccggggatccATGGCAATGGCGGCGGCG R: cgaaagctctgcaggtcgacTCACAAGCAGGGGGGGCAGC
<i>GS3-nLUC</i>	F: gagtcgggtacccggggatccATGGCAATGGCGGCGGCG R: gcgtacgagatctggtcgacCAAGCAGGGGGGGCAGCA
<i>cLUC-EOG1</i>	F: ggggcggtacccggggatccATGGCGTCGTCGGCGGAG

	R: cgaagctctgcaggtcgacTTAGGTCGCTTCAGCAGTCG
<i>RGB1-nLUC</i>	F: gagctcggtagcccggggatccATGGCGTCCGTGGCGGAGCT
	R: gcgtacgagatctggtcgacAACTATTTTCCGGTGTC
<i>FLAG-GS3-4</i>	F: gttccagattacgtggatccgaattcATGGCAATGGCGGCGGCG
	R: agtggtggtggtggtggtgctcgagACGCCGCCCCACATGAGGA
	Fl-S3-4M-F: TGCTCATCCTCTCCTCCTCCTTCAACCTCAAGAGGCCGAG
	Fl-S3-4M-R: AAGGAGGAGGAGAGGATGAGCAGCCGCCGGCGGCGCTGCT
<i>FLAG-GS3-2</i>	F: gttccagattacgtggatccgaattcATGGCAATGGCGGCGGCG
	R: agtggtggtggtggtggtgctcgagCAAGCAGGGGGGGCAGCA
<i>FLAG-GS3</i>	F: aaggacgatgacgataagttcgaaATGGCAATGGCGGCGGCG
	R: ctgcaggtcgacactagtTCACAAGCAGGGGGGGCAGC
<i>GS3-4-FLAG</i>	F: ggggacgagctcggtaccATGGCAATGGCGGCGGCG
	R: gtcttttagtcttcgaaACGCCGCCCCACATGAGGA
<i>GS3-2-FLAG</i>	F: ggggacgagctcggtaccATGGCAATGGCGGCGGCG
	R: gtcttttagtcttcgaaCAAGCAGGGGGGGCAGCA
<i>FLAG-WG1^{C46,49S}</i>	F: gttccagattacgtggatccgaattcATGCAGTACGGAGCGGCG
	R: agtggtggtggtggtggtgctcgagGAGCCAGAGCGCGCCGGCCT
Primers for identification of mutants	
<i>Mutant name</i>	Primers (F: Forward R: Reverse)
<i>gs3-cl</i>	F: GCCGCCGGCGCCGCCCGGCC
	R: TTTTGAAGCAAGATCGAAGGA
Primers for quantitative RT-PCR	
<i>Gene name</i>	Primers (F: Forward R: Reverse)
<i>ACTIN1</i>	F: TGCTATGTACGTCGCCATCCAG
	R: AATGAGTAACCAACGCTCCGTCA
<i>WG1</i>	F: AGCAGGCGTGGTACATG
	R: TTCACGGCGTGGCACAT