

Additional file 10. Western blot validation of the iTRAQ quantitative information.

protein	iTRAQ ^a				Western blot ^b				
	(GPG/MPG)				(GPG/MPG)				
	Exp 1	Exp 2	mean	S.D.	1	2	3	mean	S.D.
eIF 4a	5.97	5.50	5.73	0.34	7.99	6.00	6.20	6.73	1.10
GAPDH	2.11	2.00	2.06	0.08	1.84	2.13	2.21	2.06	0.19
Band_7	0.94	0.94	0.94	0.00	0.83	0.89	0.93	0.88	0.05
Sar	0.26	0.23	0.25	0.02	0.32	0.28	0.30	0.30	0.02
Correlation coefficient between iTRAQ quantitation and WB quantitation = 0.9983									

a, Protein expression change ratio (GPG/MPG) quantified by iTRAQ.

b, Optical density ratio (GPG/MPG) of Western blot bands measured by Image-Pro Plus v6.0.

eIF 4a, the eukaryotic initiation factor-4a from *Oryza sativa*, gi|115444197; GAPDH, glyceraldehyde-3-phosphate dehydrogenase from *Oryza sativa*, gi|115459078; Band_7, flotillin like protein from *Oryza sativa*, gi|48716660; Sar, ras-related protein1 from *Arabidopsis thaliana*, AT3G62560, which shares 93% amino acid identity with rice gi|115436368.