

Supplemental Table 4. Eigenvectors and cumulative contributions for endosperm enzyme activities and eating-quality traits in the Principal component analysis.

	Principal components in 2012						Principal components in 2014					
	PC1	PC2	PC3	PC4	PC5	PC6	PC1	PC2	PC3	PC4	PC5	PC6
Eigenvalue	5.5	2.4	1.7	1.5	0.9	0.8	5.9	2.4	1.7	1.1	0.8	0.7
Percentage contribution	36.5	15.9	11.6	10.3	6.2	5.1	39.3	16.1	11.4	7.4	5.5	4.6
Cumulative contribution	36.5	52.4	64.0	74.3	80.5	85.6	39.3	55.4	66.8	74.2	79.7	84.3
Trait												
Endosperm enzyme activity												
α -amylase	0.38	0.20	0.04	0.10	0.00	-0.06	0.36	0.11	0.22	0.05	0.03	0.00
β -amylase	0.29	0.02	-0.03	0.14	-0.62	0.13	0.36	-0.04	0.19	0.05	0.01	-0.01
α -glucosidase	0.40	0.09	0.03	-0.02	-0.09	0.10	0.37	0.10	0.16	0.08	-0.06	-0.01
α -mannosidase	0.27	0.10	0.05	0.03	0.60	-0.38	0.30	0.04	-0.25	-0.12	0.28	-0.32
α -galactosidase	0.17	-0.15	0.15	-0.46	0.28	0.45	0.31	-0.01	-0.25	-0.03	0.02	0.16
β -galactosidase	0.35	0.23	0.03	-0.08	0.20	0.06	0.38	0.06	0.12	0.04	0.07	-0.06
β -glucanase	0.35	0.03	0.11	0.03	-0.07	-0.05	0.28	0.00	-0.05	-0.15	-0.34	0.45
β -xylanase	0.41	0.06	0.03	0.03	-0.13	0.03	0.38	0.03	0.04	-0.07	-0.01	0.02
Protein content	0.12	-0.56	-0.07	-0.10	-0.06	-0.18	0.04	0.19	-0.36	0.45	0.59	0.46
Amylose content	-0.03	0.05	0.22	0.64	0.07	-0.28	-0.01	0.04	0.15	0.85	-0.36	-0.14
Cooked Rice Taste Analyzer												
Eating-quality score	-0.18	0.53	0.10	0.03	-0.02	0.29	0.03	-0.29	0.58	0.02	0.36	0.07
Tensipresser												
Hardness of the grain surface H1	0.02	-0.26	0.61	0.06	0.02	0.09	-0.09	0.57	0.00	-0.08	-0.13	0.17
Stickiness of the grain surface S1	-0.21	0.33	0.43	-0.13	-0.03	0.02	-0.21	0.19	0.49	-0.09	0.25	0.33
Hardness of the whole grain H2	0.01	-0.29	0.29	0.41	0.15	0.46	-0.02	0.52	0.14	-0.10	-0.20	0.09
Stickiness of the whole grain S2	-0.03	-0.01	0.50	-0.38	-0.28	-0.44	-0.02	0.46	0.06	0.00	0.26	-0.54

Boldfaced values represent statistically significant loadings.