

**S3 Table. Summary of absolute amounts of all gene expressions analyzed in two high-yielding rice cultivars, Hokuriku193 and Momiroman. Mean±SEs ( $n=3$ ). Significant difference at  $p = 0.05$  and  $p = 0.01$  are indicated by \* and \*\*, respectively ( $t$ -test).**

Gene	Description	Cultivar	Log <sub>2</sub> copies ng total RNA <sup>-1</sup>			
			-1 DAH	4 DAH	9 DAH	18 DAH
AGPL1	AGPase large subunit 1	Hokuriku 193	16.18 ± 0.48	16.26 ± 0.45	15.00 ± 0.34	10.20 ± 0.25
		Momiroman	15.64 ± 0.35	16.89 ± 0.46	14.16 ± 1.39	10.30 ± 0.42
AGPS1	AGPase small subunit 1	Hokuriku 193	15.35 ± 0.56	15.12 ± 0.53	14.41 ± 0.22	11.32 ± 0.23
		Momiroman	15.66 ± 0.36	16.20 ± 0.32	14.46 ± 0.79	11.48 ± 0.18
AMY2A	α-amylase 2A	Hokuriku 193	8.32 ± 0.74	10.20 ± 0.29 *	9.38 ± 0.69	11.25 ± 0.25
		Momiroman	7.32 ± 0.45	6.72 ± 0.72	7.86 ± 0.77	11.22 ± 0.64
BAM2	β-amylase 2	Hokuriku 193	9.52 ± 0.22	11.98 ± 0.30 *	11.48 ± 0.40	13.88 ± 0.14 **
		Momiroman	8.50 ± 0.32	8.47 ± 0.31	9.66 ± 0.57	12.00 ± 0.36
BAM3	β-amylase 3	Hokuriku 193	7.46 ± 0.36	7.48 ± 1.14	6.50 ± 0.07	8.33 ± 0.04
		Momiroman	5.93 ± 1.16	7.36 ± 0.78	5.79 ± 1.25	6.54 ± 0.54
BAM8	β-amylase 8	Hokuriku 193	8.40 ± 0.56	8.17 ± 0.29	7.63 ± 0.32	7.01 ± 0.12
		Momiroman	8.31 ± 0.60	8.77 ± 0.09	7.46 ± 0.32	7.00 ± 0.31
BAM9	β-amylase 9	Hokuriku 193	10.23 ± 0.48	11.90 ± 0.41	11.32 ± 0.10	13.82 ± 0.08
		Momiroman	10.28 ± 0.24	9.81 ± 0.61	10.83 ± 0.64	13.28 ± 0.23
BE1	Branching enzyme I	Hokuriku 193	11.29 ± 0.36 *	11.01 ± 0.42 **	10.44 ± 0.21	9.46 ± 0.15 *
		Momiroman	12.55 ± 0.13	13.43 ± 0.29	12.05 ± 0.65	10.15 ± 0.18
GBSS2	Granule-bound starch synthase II	Hokuriku 193	14.35 ± 0.33	14.21 ± 0.39	13.39 ± 0.16	10.99 ± 0.08
		Momiroman	14.69 ± 0.12	15.07 ± 0.26	13.37 ± 0.82	10.77 ± 0.32
GWD1	Glucan, water dikinase 1	Hokuriku 193	12.46 ± 0.57	13.59 ± 0.44 *	12.50 ± 0.20	11.16 ± 0.27
		Momiroman	10.88 ± 0.26	11.81 ± 0.18	11.11 ± 0.54	10.27 ± 0.17
ISA3	Isoamylase 3	Hokuriku 193	8.68 ± 0.73	9.43 ± 0.75	8.44 ± 0.10	7.47 ± 0.29
		Momiroman	8.90 ± 0.47	10.39 ± 0.22	8.69 ± 0.59	8.04 ± 0.05
MEX1	Chloroplast maltose exporter 1	Hokuriku 193	8.81 ± 0.37	8.75 ± 0.54	7.87 ± 0.21	8.40 ± 0.15
		Momiroman	9.19 ± 0.25	9.56 ± 0.16	8.34 ± 0.62	8.02 ± 0.11
pGlcT	Plastidial glucose transporter	Hokuriku 193	8.52 ± 0.56	8.97 ± 0.46	8.67 ± 0.03	8.78 ± 0.10
		Momiroman	9.15 ± 0.19	9.66 ± 0.21	8.39 ± 0.30	8.89 ± 0.25
PWD-like	Phosphoglucan, water dikinase-like protein	Hokuriku 193	7.70 ± 0.92	8.67 ± 0.40	8.16 ± 0.14	8.75 ± 0.17
		Momiroman	7.91 ± 0.25	8.31 ± 0.36	8.07 ± 0.16	8.40 ± 0.16
SS2b	Starch synthase IIb	Hokuriku 193	11.45 ± 0.55	11.60 ± 0.51	10.89 ± 0.01	10.51 ± 0.31
		Momiroman	12.46 ± 0.27	12.73 ± 0.27	11.05 ± 0.58	10.22 ± 0.07
SUT1	Sucrose transporter 1	Hokuriku 193	8.17 ± 0.46	8.80 ± 0.45	8.27 ± 0.18	10.49 ± 0.25
		Momiroman	9.52 ± 0.33	9.69 ± 0.69	9.15 ± 0.24	10.61 ± 0.24