

Supplementary Table 6. Number of highly expressed APA genes are enriched in QTLs across 14 tissues

trait	dry-seed	embryo	endosperm	imbibed-seed	seedling-shoot	20-day-leaf	60-day-leaf	60-day-stem	5-day-root	60-day-root	husk	anther	mature-pollen	pistil
plant height	40	41	37	35	40	42	46	38	31	34	33	36	37	34
days to heading	38	36	36	33	36	37	40	35	28	41	32	34	35	33
spikelet number	37	40	35	33	30	34	34	29	30	30	29	30	31	39
1000-seed weight	34	32	33	30	32	38	37	32	31	29	24	28	30	33
root dry weight	32	32	32	27	25	31	32	26	27	30	25	28	32	28
tiller number	28	29	26	22	24	27	30	28	22	24	24	23	21	25
total biomass yield	26	30	27	25	15	20	22	19	19	23	18	18	16	19
biomass yield	24	28	25	24	16	22	26	22	22	23	21	21	21	21
grain yield	23	23	23	25	25	32	29	30	20	21	22	15	22	22
panicle length	23	22	25	24	24	23	21	25	20	21	26	21	26	24
panicle number	20	20	20	21	12	17	23	21	15	22	19	23	23	13
leaf length	18	18	18	13	19	22	23	19	16	17	19	14	17	17
root number	18	18	16	17	12	14	16	15	10	15	11	7	7	12
grain yield per plant	14	13	12	13	7	5	10	10	9	14	8	8	4	9
seedling vigor	14	14	14	11	7	12	11	11	9	9	14	12	6	11
white-backed planthopper resistance	14	15	14	10	8	12	12	10	7	9	8	8	5	7
leaf senescence	13	13	13	12	12	11	9	11	10	11	8	8	5	12
leaf width	13	13	14	11	18	20	16	15	14	13	17	14	17	13
seed set percent	11	10	11	8	4	5	5	8	5	6	5	6	5	4
spikelet fertility	11	16	11	12	19	19	19	16	13	11	12	13	15	14
primary branch	10	12	10	17	13	13	14	15	13	14	13	13	11	15
grain number	8	5	6	5	3	1	4	3	5	6	3	3	2	4
grain yield per panicle	8	6	6	6	2	1	5	4	4	6	3	2	1	5
relative root length	8	8	7	6	4	6	6	5	3	2	6	1	1	5
amylose content	7	7	7	5	1	1	1	3	3	4	4	5	2	3
blast disease resistance	7	8	7	7	10	10	10	9	7	5	7	7	10	8
root length	7	8	7	5	7	5	4	3	5	4	3	3	3	6
aluminum sensitivity	6	5	5	5	2	4	5	4	3	2	5	1	1	2
leaf area	6	7	7	4	5	5	5	5	8	7	8	7	9	5
root activity	6	7	5	5	5	6	5	7	6	4	6	5	8	5
root thickness	6	8	6	6	5	8	6	8	5	7	6	4	3	7
deep root to shoot ratio	5	2	6	6	1	1	1	3	2	4	2	2	4	3
gelatinization temperature	5	5	5	4	4	2	2	2	2	5	5	8	4	4
H2O2 content	5	7	6	6	4	6	7	6	5	10	4	5	7	7
invitro regeneration ability	5	8	4	6	4	4	5	5	3	6	4	5	6	5
large vascular bundle number to leaf area ratio	5	4	5	3	5	4	4	3	4	4	3	6	5	4
penetrated root thickness	5	3	5	5	1	2	3	3	1	4	3	5	5	2
seed number	5	8	5	7	9	7	7	6	8	6	6	6	12	7
spikelet sterility	5	6	5	5	3	3	4	3	3	2	4	4	3	6
1000-grain weight	4	5	5	5	4	5	5	5	4	7	6	5	6	6
chalkiness of endosperm	4	3	4	4	2	3	2	4	3	1	3	3	8	3
filled grain number	4	5	5	4	6	7	6	5	5	3	6	7	4	7
germination speed	4	5	4	3	5	6	6	6	5	6	7	5	9	4
grain length	4	7	3	6	4	3	5	5	3	4	3	1	2	5
root to shoot ratio	4	4	5	3	2	1	1	3	1	4	3	3	3	1
rooting depth	4	3	4	3	4	2	2	3	4	4	2	2	2	2
seed dormancy	4	5	4	5	8	5	6	8	6	5	6	6	8	5
sheath blight disease resistance	4	5	4	3	4	5	5	5	5	4	6	5	8	4
brown planthopper resistance	3	2	3	3	4	4	3	2	3	3	3	5	3	2
chlorophyll content	3	5	4	4	3	3	4	4	4	4	3	4	6	3
glutamine synthetase content	3	2	3	2	1	1	1	1	1	1	1	1	1	1
large vascular bundle number	3	2	3	4	4	5	4	4	4	3	2	2	6	4

[illegible]