

Supplemental Table 1 Total frequency of spikelet abortion of *paa3* mutant

Sample	Number of spikelets per panicle	Number of seeds per panicle	Abortion rate	Average abortion rate	SD	Sample	Number of spikelets per panicle	Number of seeds per panicle	Abortion rate	Average abortion rate	SD
1B-1	206	204	0.97%	1.25%	1.00%	<i>paa3</i> -1	213	172	19.25%	18.25%	4.97%
1B-2	229	225	1.75%			<i>paa3</i> -2	203	176	13.30%		
1B-3	211	209	0.95%			<i>paa3</i> -3	202	164	18.81%		
1B-4	205	203	0.98%			<i>paa3</i> -4	230	183	20.43%		
1B-5	197	194	1.52%			<i>paa3</i> -5	242	165	31.82%		
1B-6	200	199	0.50%			<i>paa3</i> -6	156	130	16.67%		
1B-7	210	210	0.00%			<i>paa3</i> -7	226	191	15.49%		
1B-8	209	201	3.83%			<i>paa3</i> -8	238	201	15.55%		
1B-9	196	193	1.53%			<i>paa3</i> -9	226	190	15.93%		
1B-10	229	228	0.44%			<i>paa3</i> -10	184	156	15.22%		