

TABLE S1

Number of small RNA reads and tags in the various libraries: TTR16 –tetraploid parent (Genome BBAA), TQ113 – diploid parent (Genome DD), F1 – triploid hybrid (genome BAD), S1 – first generation of synthetic hexaploid (Genome BBAADD).

Libraries:	TTR16	TQ113	Hybrid	Polyploid	Total
Total reads	5,633,938	3,064,285	6,421,516	3,458,759	18,578,498
Total tags	3,726,879	1,879,921	3,068,481	1,092,783	-
Tags after QC ^a	991,936	2,829,480	3,423,567	1,627,189	-
Tags with >30 reads	7967	4292	6756	2772	-
Reads from tags with >30 reads	1,576,108	1,202,651	1,689,159	1,561,663	6,029,581

^aQC: Quality Control process including 1. Trimming of 3' PCR primer; 2. Elimination of reads with >3Ns; 3. Assembly of reads with identical sequences into unique tags.