Appendix E Alignment statistics after using HISAT2 to align the RNA-seq samples to the Chinese Spring reference genomes.

Group	Sample	Number of Sequencing reads	Number of sequencing reads aligned (1 st pass)	Number of sequencing reads aligned uniquely	Number of sequencing reads aligned uniquely after remove duplicates	Bp mapped	Sequencing reads aligned uniquely after remove duplicates (to unmapped read assembly)	Bp mapped (of unmapped read assembly)
А	2D1	39,810,948	35,095,839	30,462,674	23,988,769	258,375,578	229,029	6,127,012
A	2D2	33,218,456	26,721,116	23,375,577	18,719,507	251,797,502	250,793	6,399,364
A	2D3R	45,922,198	39,890,448	34,655,561	26,812,582	261,430,002	236,496	5,700,772
A	2D7R	52,047,398	46,578,833	40,526,437	32,058,907	277,941,174	309,032	6,947,487
В	2D4R	40,822,742	36,421,999	31,311,152	25,346,164	267,226,179	193,180	4,562,473
В	2D5	41,214,782	36,547,602	31,648,643	24,190,602	262,069,625	207,809	5,541,350
В	2D6	39,469,064	34,326,561	29,438,683	22,274,621	257,019,220	161,092	4,582,661
В	2D8	47,363,162	42,365,355	36,662,284	29,147,092	280,891,736	228,139	5,413,053