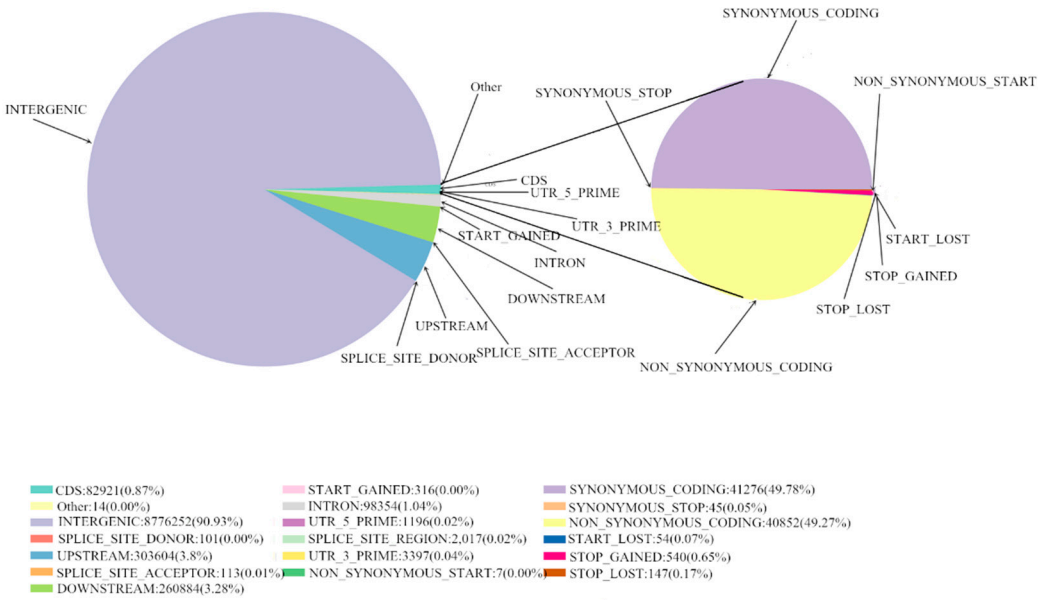


Figure S1 Statistical results of candidate SNP annotations

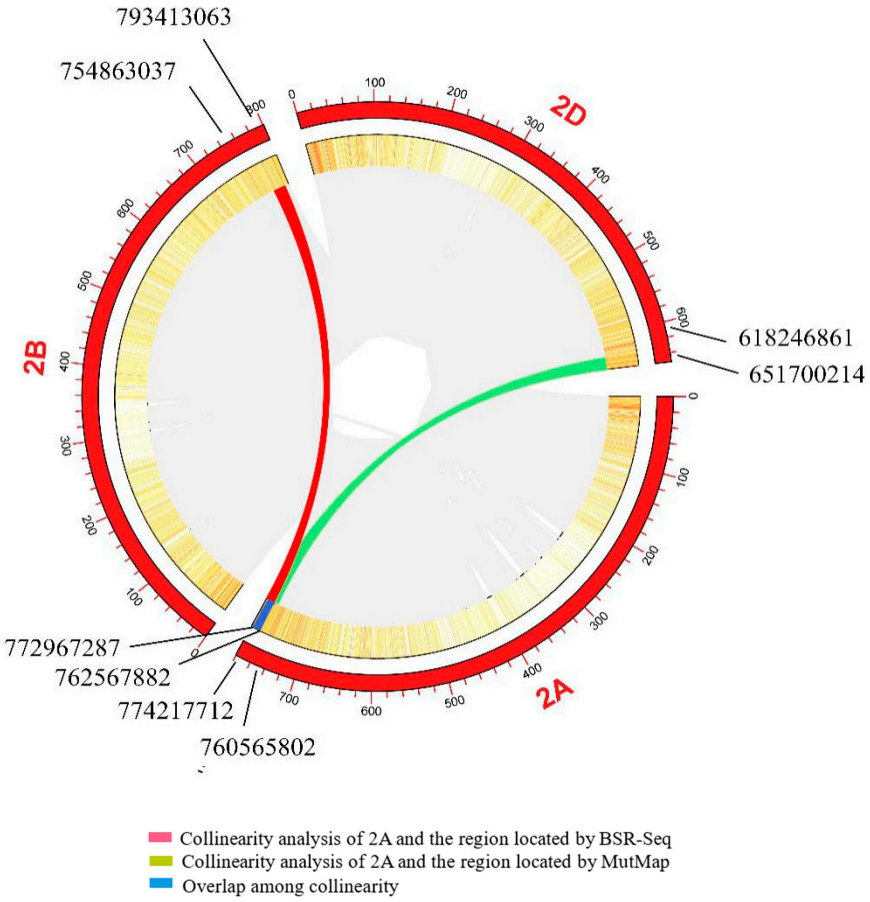
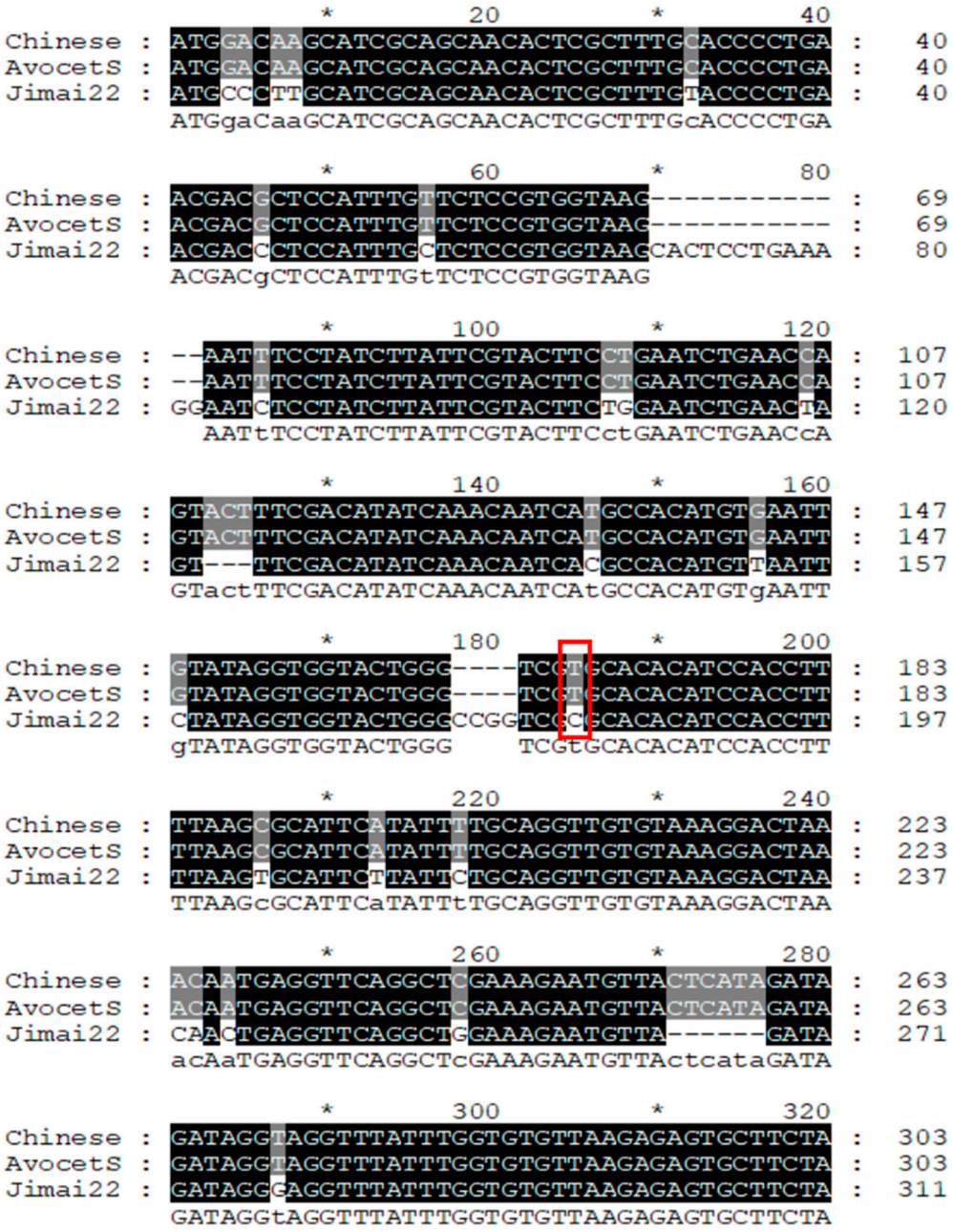
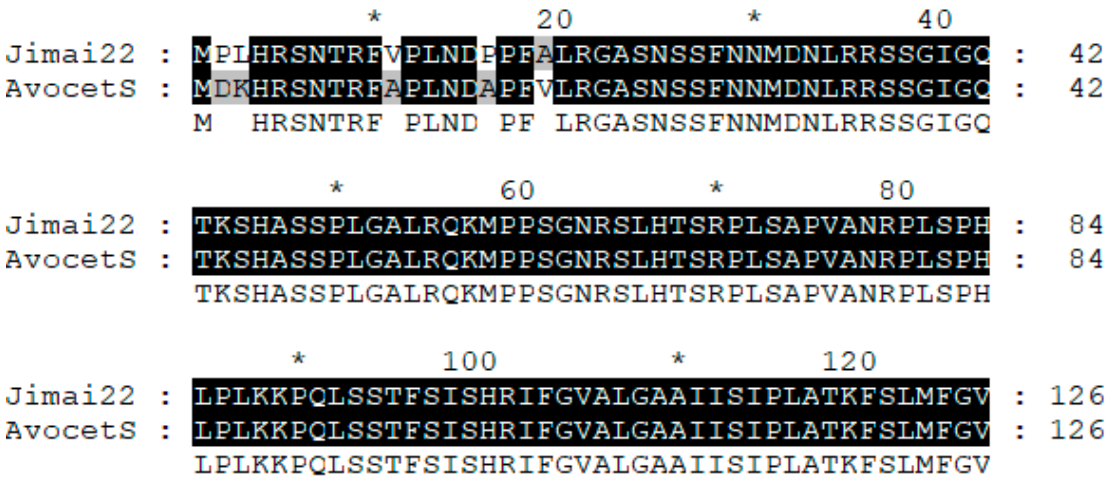


Figure S2 Collinearity analysis of wheat chromosomes 2A, 2B, and 2D


Chinese : ATGGACAAGCATCGCAGCAACACTCGCTTTGCACCCCTGA : 40
AvocetS : ATGGACAAGCATCGCAGCAACACTCGCTTTGCACCCCTGA : 40
Jimai22 : ATGCCCTTGCATCGCAGCAACACTCGCTTTGTACCCCTGA : 40
ATGgaCaaGCATCGCAGCAACACTCGCTTTGcACCCCTGA
Chinese : ACGACGCTCCATTTGTTCTCCGTGGTAAG---------- : 69
AvocetS : ACGACGCTCCATTTGTTCTCCGTGGTAAG---------- : 69
Jimai22 : ACGACCCTCCATTTGCTCTCCGTGGTAAGCACTCCTGAAA : 80
ACGACgCTCCATTTGtTCTCCGTGGTAAG
Chinese : --AATTTCCTATCTTATTCGTACTTCCTGAATCTGAACCA : 107
AvocetS : --AATTTCCTATCTTATTCGTACTTCCTGAATCTGAACCA : 107
Jimai22 : GGAATCTCCTATCTTATTCGTACTTCTGGAATCTGAACTA : 120
AATtTCCTATCTTATTCGTACTTCctGAATCTGAACcA
Chinese : GTACTTTCGACATATCAAACAATCATGCCACATGTGAATT : 147
AvocetS : GTACTTTCGACATATCAAACAATCATGCCACATGTGAATT : 147
Jimai22 : GT---TTCGACATATCAAACAATCACGCCACATGTTAATT : 157
GTactTTCGACATATCAAACAATCAtGCCACATGTgAATT
Chinese : GTATAGGTGGTACTGGG----TCGTGCACACATCCACCTT : 183
AvocetS : GTATAGGTGGTACTGGG----TCGTGCACACATCCACCTT : 183
Jimai22 : CTATAGGTGGTACTGGGCCGGTCGCGCACACATCCACCTT : 197
gTATAGGTGGTACTGGG TCGtGCACACATCCACCTT
Chinese : TTAAGCGCATTCATATTTTGCAGGTTGTGTAAAGGACTAA : 223
AvocetS : TTAAGCGCATTCATATTTTGCAGGTTGTGTAAAGGACTAA : 223
Jimai22 : TTAAGTGCATTCTTATTCTGCAGGTTGTGTAAAGGACTAA : 237
TTAAGcGCATTCaTATTtTGCAGGTTGTGTAAAGGACTAA
Chinese : ACAATGAGGTTCAGGCTCGAAAGAATGTTACTCATAGATA : 263
AvocetS : ACAATGAGGTTCAGGCTCGAAAGAATGTTACTCATAGATA : 263
Jimai22 : CAACTGAGGTTCAGGCTGGAAAGAATGTTA------GATA : 271
acAaTGAGGTTCAGGCTcGAAAGAATGTTActcataGATA
Chinese : GATAGGTAGGTTTATTTGGTGTGTTAAGAGAGTGCTTCTA : 303
AvocetS : GATAGGTAGGTTTATTTGGTGTGTTAAGAGAGTGCTTCTA : 303
Jimai22 : GATAGGGAGGTTTATTTGGTGTGTTAAGAGAGTGCTTCTA : 311
GATAGGtAGGTTTATTTGGTGTGTTAAGAGAGTGCTTCTA

(a)



(b)

Figure S3 (a) Sequence alignment of *TraesCS2A02G573200* between Jimai 22 and Avocet S, (b) Alignment of the deduced amino acid sequences of TraesCS2A02G573200 between Jimai 22 and Avocet S