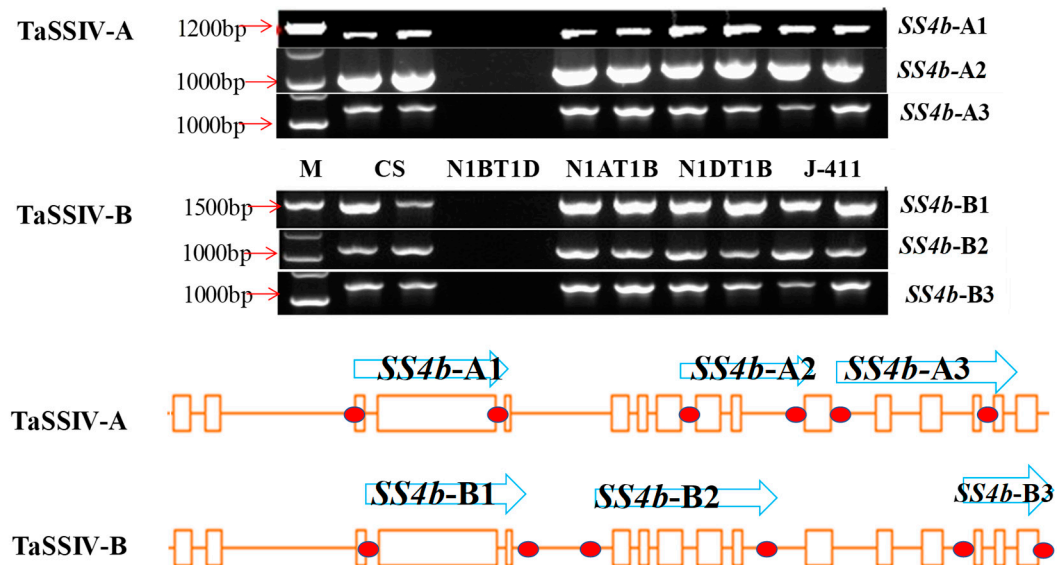


Table S2. List of primers used for EcoTILLING of *TaSSIV A, B* and *D* sub genomes.

Primer	Sequence (5'- 3')	Size	Temp
SS4b-FA1	TTTTCGTGTAGGTCCAGCAA	20	57
SS4b-RA1	CCTTTTATGAACCAATTCTCGC	22	
SS4b-FA2	TTTCCATTTCTTGTGTGCTG	20	56
SS4b-RA2	AACACTCGGTTGGTTCAC TG	20	
SS4b-FA3	CCCTTTGACATTTAACCTTCAG	22	56
SS4b-RA3	CCGATAAATGTGATGACAAACG	22	
SS4b-FB1	TGCATAACCACTGAATTGCA	20	57
SS4b-RB1	TTAAGGCTACATCCATTCACAC	22	
SS4b-FB2	GTGTGAATGGATGTAGCCTTA	21	52
SS4b-RB2	GCCAAAAAAGTCTACATCG	19	
SS4b-FB3	TGGCTTCTTCATACTTTGATAG	22	57
SS4b-RB3	GCGCATACTACGATCTTGAGG	21	
SS4b-FD1	GGTAGGAATGATACAGAACACC	22	57
SS4b-RD1	ACTAAAACCCACTTTGCGAC	20	
SS4b-FD2	CTGCAAAAAATTGTCTAAAAGCTAC	25	58
SS4b-RD3	CATGCTTTGAAATTATCTACTTTTCG	25	
SS4b-FD3	ACCAGAAATTCAGGTGCGTT	20	60
SS4b-RD3	TGAGTCGTGTTGTGCCCCG	18	

Figure S1. Specific primer for *TaSSIV-A* and *TaSSIV-B* with validation Chinese Spring nullisomic-tetrasomic lines.



- a. Chinese Spring (CS), nullisomic-tetrasomic lines (N1AT1B, N1AT1D, N1BT1D and N1DT1B) and wild type (J411) amplified. b Diagram of *TaSSIV-A* and *TaSSIV-B* primers: orange arrowheads indicate exon regions; blue rectangles represent the location of each primer.

Table S3. KASP markers that are tightly linked to TaSSIV-A and TaSSIV-B and their primer sequences.

Marker name	Sequence (5'- 3')
<i>KASP-A1673T</i>	F: GAAGGTGACCAAGTTCATGCTCAAAAAGTCAAATTGGTAGAAGAAA F: GAAGGTCGGAGTCAACGGATTCAAAAAGTCAAATTGGTAGAAGAAT R: TGAGAATGCATTTTACAATTACATG
<i>KASP-A2403C</i>	F: GAAGGTGACCAAGTTCATGCTAAGTTCTCTTGTTCTCTTGTTGATA F: GAAGGTCGGAGTCAACGGATTAAAGTTCTCTTGTTCTCTTGTTGATC R: CTTCTACCAATTTGACTTTTTGCTG
<i>KASP-C2436T</i>	F: GAAGGTGACCAAGTTCATGCTGAATTTACGATACTCTTAGCAAAC F: GAAGGTCGGAGTCAACGGATTGAATTTACGATACTCTTAGCAAAT R: CCAGTGATCTTTTCTCACTTTCCTC
<i>KASP-C5952T</i>	F: GAAGGTGACCAAGTTCATGCTCCTCATGAACAGTTTATTTATCACC F: GAAGGTCGGAGTCAACGGATTCCTCATGAACAGTTTATTTATCACT R: AATACACCATTCAGACTCATGTTC
<i>KASP-C1560T</i>	F: GAAGGTGACCAAGTTCATGCTTAAGCTTTCAAGTGAAGGGAATTC F: GAAGGTCGGAGTCAACGGATTTAAGCTTTCAAGTGAAGGGAATTT R: ATCAAACCTAATGCTAGTGGAGAG
<i>KASP-C6107T</i>	F: GAAGGTGACCAAGTTCATGCTCATGAGATATGGTTCTGTGCCAATC F: GAAGGTCGGAGTCAACGGATTCATGAGATATGGTTCTGTGCCAATT R: CTGTCATTCAGCCCACCAGTTTTCC