

Additional file 8: LOD contours obtained by inclusive composite interval mapping (ICIM) analysis for TGW QTL on chromosomes 3B in F₂ and F_{2:3} populations derived from BL33/BL31. The genetic region of *QTGW.caas-3BS* is highlighted in red. LOD contour in Gaoyi 2016-2017 cropping season and Gaoyi 2017-2018 cropping season indicated with red and green lines, respectively. LOD threshold of 2.5 is indicated by the dotted vertical line.

