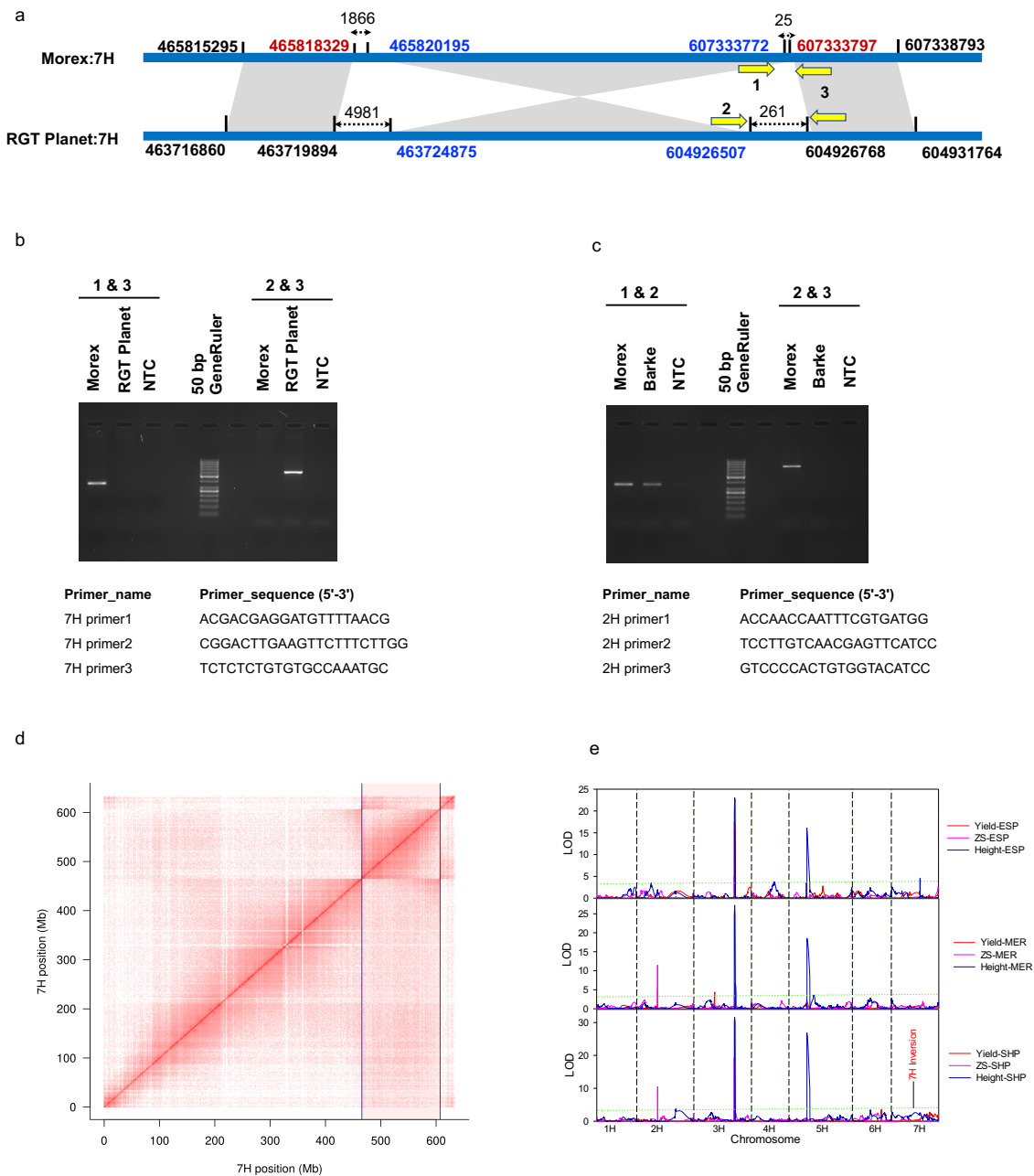




Supplementary Figure 2 | In-depth analysis of two inversions on 2H and 7H. (a) Schematic illustration showing precise positions of breakpoints for 7H frequent inversion between Morex and RGT Planet. **(b)** PCR assay for genotyping 7H inversion. The location of three PCR primers are shown in **(a)** with yellow marks (not drawn to scale). **(c)** PCR assay for genotyping the 2H inversion. Primer locations are shown in **Fig. 4c**. **(d)** Hi-C contact probability matrix of RGT Planet computed for chromosome 7H. The intensity of pixels represents the normalized Hi-C links counted between 1 Mb windows on chromosome 7H. The frequent 7H inversion was spotted as a pattern of higher than expected interaction frequency against Morex V2 reference genome, marked by blue lines. **(e)** QTL results for grain yield, plant height and different growth stages from multiple sites in RGT Planet x Hindmarsh population.