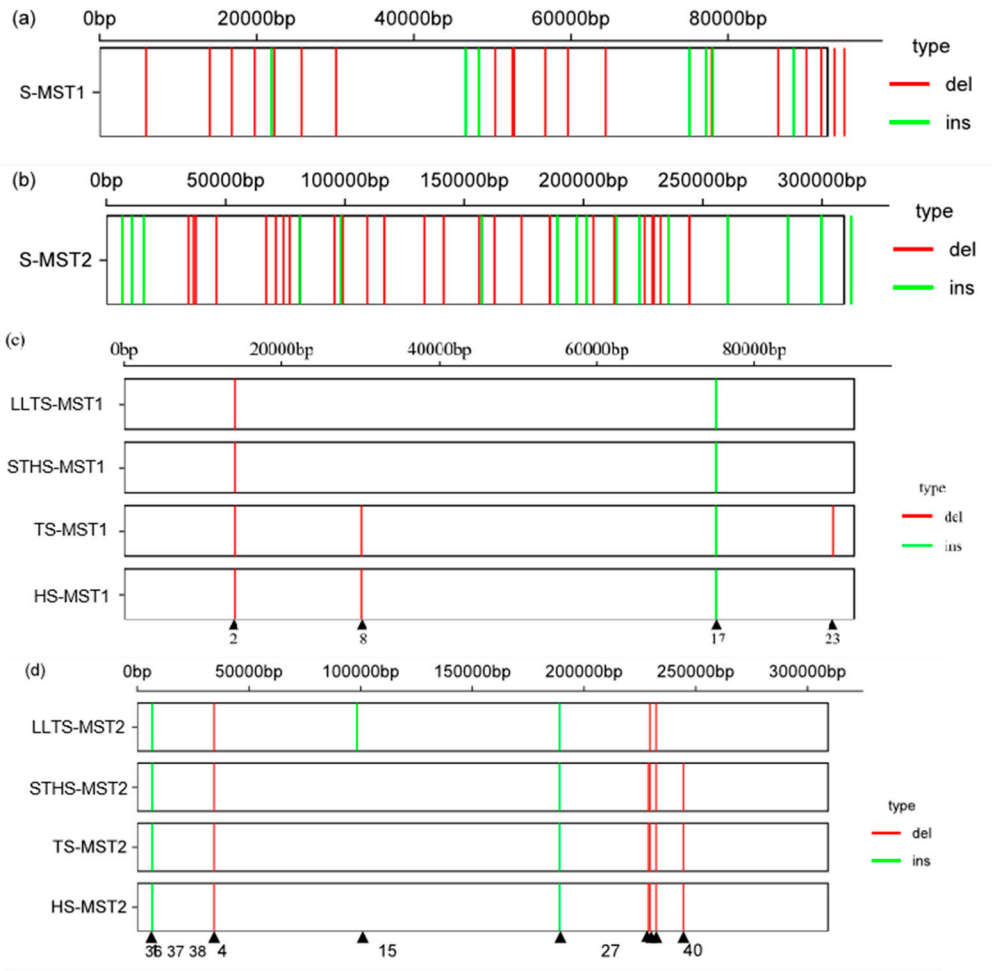
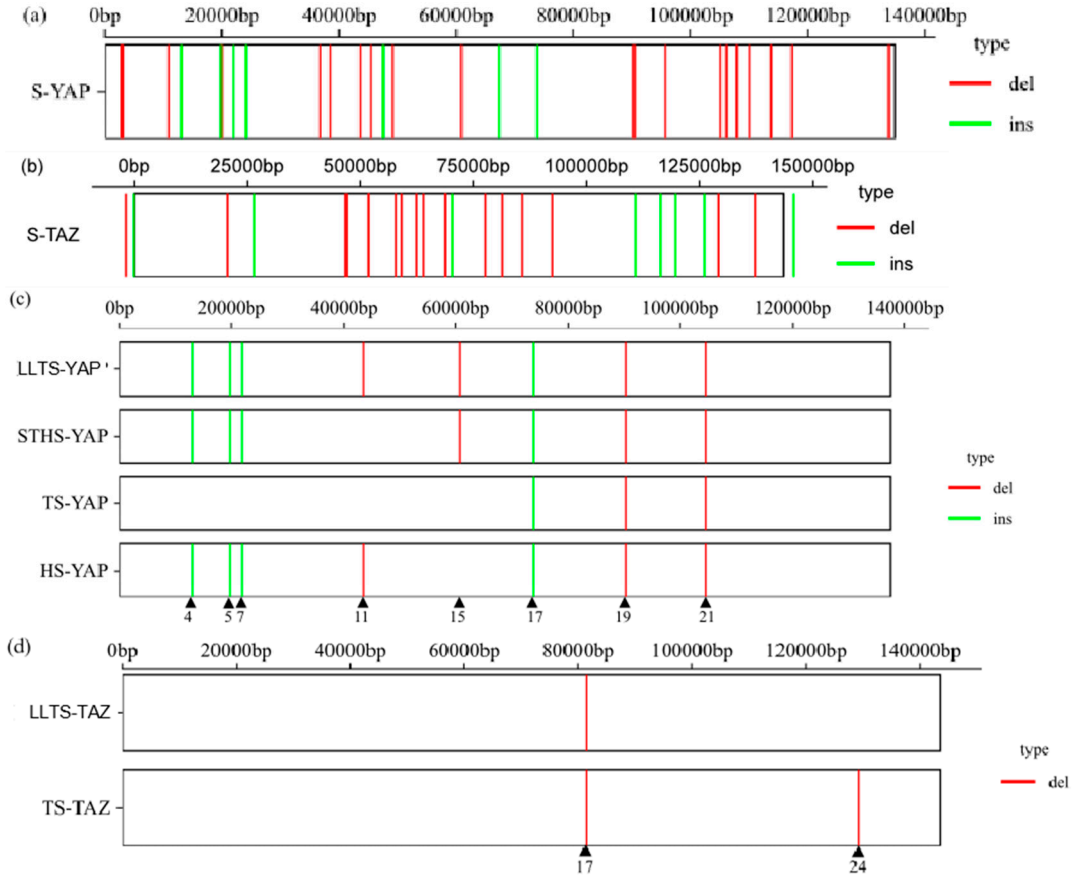


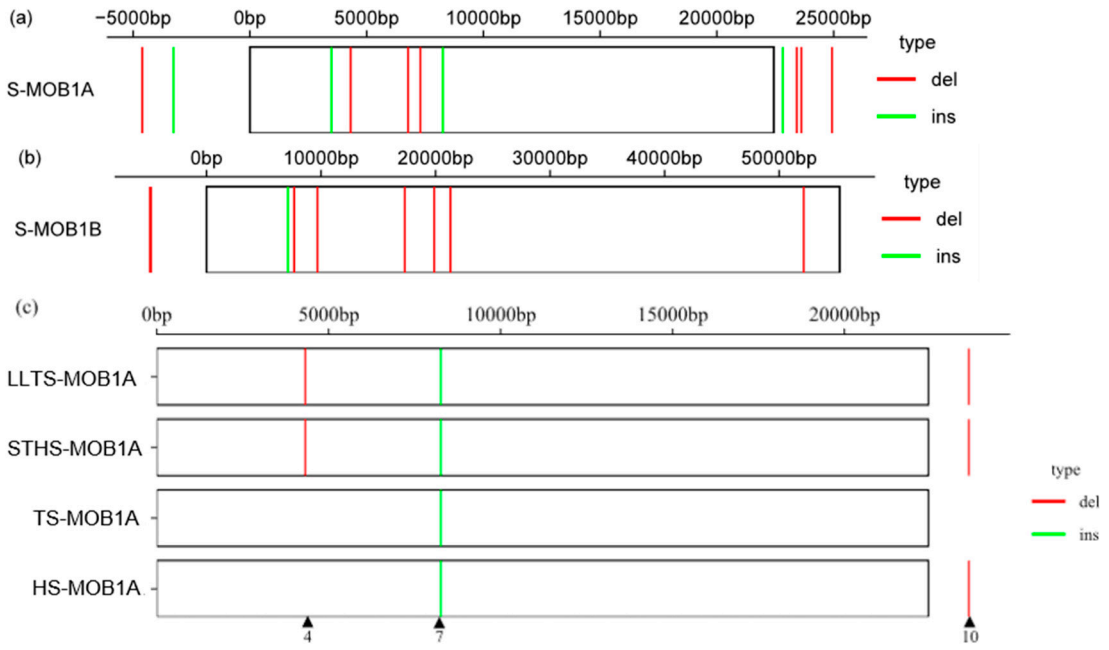
Supplementary Figure S1 InDel locus map of *MST1* and *MST2* genes in sheep

(a) Schematic diagram of InDel potential sites screened from sheep *MST1* gene ; (b) The InDel potential loci in sheep *MST2* gene ; (c) InDel loci diagram of four sheep *MST1* gene ; (d) InDel loci identified by four sheep *MST2* gene. The red line — del represents the deletion mutation, and the green line — ins represents the insertion mutation.



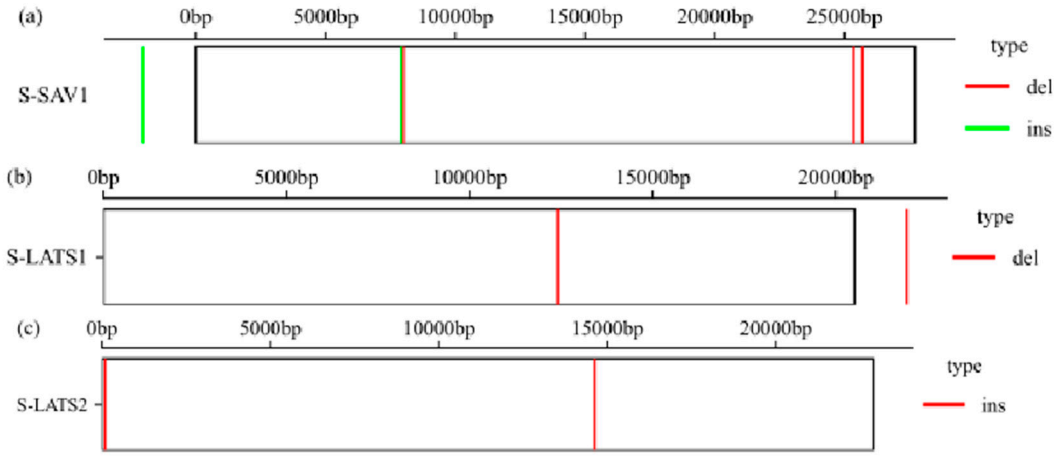
Supplementary Figure S2 Sheep YAP and TAZ gene InDel locus map.

(a) The schematic diagram of the potential sites of InDel screened from sheep YAP gene ; (b) Schematic diagram of InDel potential sites screened from sheep TAZ gene ; (c) InDel loci diagram of four sheep YAP genes ; (d) InDel locus diagram of TAZ gene identified in Lanzhou large-tailed sheep and Tong sheep. The red line — del represents the deletion mutation, and the green line — ins represents the insertion mutation.



Supplementary Figure S3 Sheep *YAP* and *TAZ* genes InDel locus map

(a) The schematic diagram of the potential sites of InDel screened from sheep *YAP* gene ; (b) Schematic diagram of InDel potential sites screened from sheep *TAZ* gene ; (c) InDel loci diagram of four sheep *YAP* genes ; (d) InDel locus diagram of *TAZ* gene identified in Lanzhou fat-tailed sheep and Tong sheep. The red line — del represents the deletion mutation, and the green line — ins represents the insertion mutation.



Supplementary Figure S4 InDel locus map of *SAV1*, *LATS1* and *LATS2* genes in sheep

(a) The schematic diagram of the potential InDel sites screened from the sheep *SAV1* gene ; (b) The schematic diagram of InDel potential sites screened from sheep *LATS1* gene ; (c) Schematic diagram of InDel potential sites screened from sheep *LATS2* gene. The red line — del represents the deletion mutation, and the green line — ins represents the insertion mutation.