Figure 7 Nipponbare - O. meridionalis В **Sequence Similarity Gene Density** H3K27ac 2.00 1.8 0.5 1.6 65 0.4 1.75 60 1.4 0.3 55 1.2 0.2 1.50 50 1.0 0.1 1.25 0.8 Mode 1 Mode 2 Mode 1 Mode 2 Mode 1 Mode 2 1.00 0.75 H3K27me3 H3K4me3 **DNA Methylation** 0.50 30.0 27.5 25.0 22.5 20.0 17.5 15.0 12.5 10.0 2.0 1.9 1.8 1.7 1.6 1.5 1.4 2.0 0.25 1.8 Mode 1 Mode 2 1.6 0.00 1.4 0.2 0.4 -0.4 -0.2 0.0 0.6 0.8 1.0 1.2 SSIM 1.0 Mode 1 Mode 2 Mode 1 Mode 2 Mode 1 Mode 2 С Nipponbare - O. meridionalis D Sequence Similarity **DNA Methylation** 2.00 27.5 1.75 70 25.0 65 1.50 22.5 60 20.0 1.25 55 17.5 1.00 50 15.0 45 0.75 12.5 40 0.50 10.0 Q1 Q3 Lower Upper Lower Upper 0.25 (0.35)(0.11)Tail Tail 0.00 0.2 -0.4 -0.2 0.0 0.4 0.6 0.8 1.0 SSIM Е Nipponbare - O. rufipogon Sequence Similarity **Gene Density TE Density** 1.6 0.6 0.5 0.7 1.4 80 0.4 70 0.3 0.5 1.2 60 0.4 0.2 50 0.3 0.1 Density 1.0 0.2 Lower Upper Lower Upper Lower Upper 0.8 Tail Tail Tail 0.6 gypsy Density **SNP Density Fitcons Scores** 0.4 0.16 0.5 0.35 Q1 Q3 0.14 0.4 0.2 0.30 (0.27)(0.61)0.12 0.25 0.3 0.10

0.2

0.1

0.0

Lower

Tail

Upper

0.20

0.15

0.10

Lower

Upper

Tail

0.08

0.06

Lower

Tail

Upper

0.0

-0.4

-0.2

0.0

0.2

0.4

SSIM

0.6

0.8

1.0

1.2