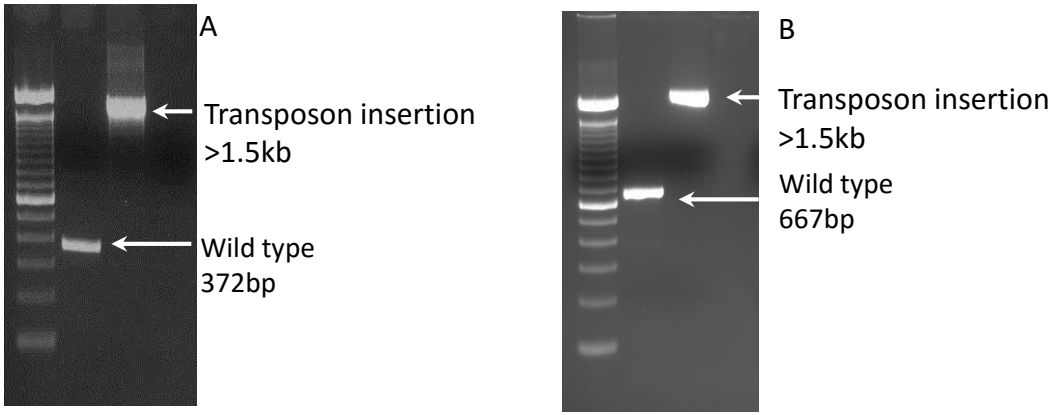
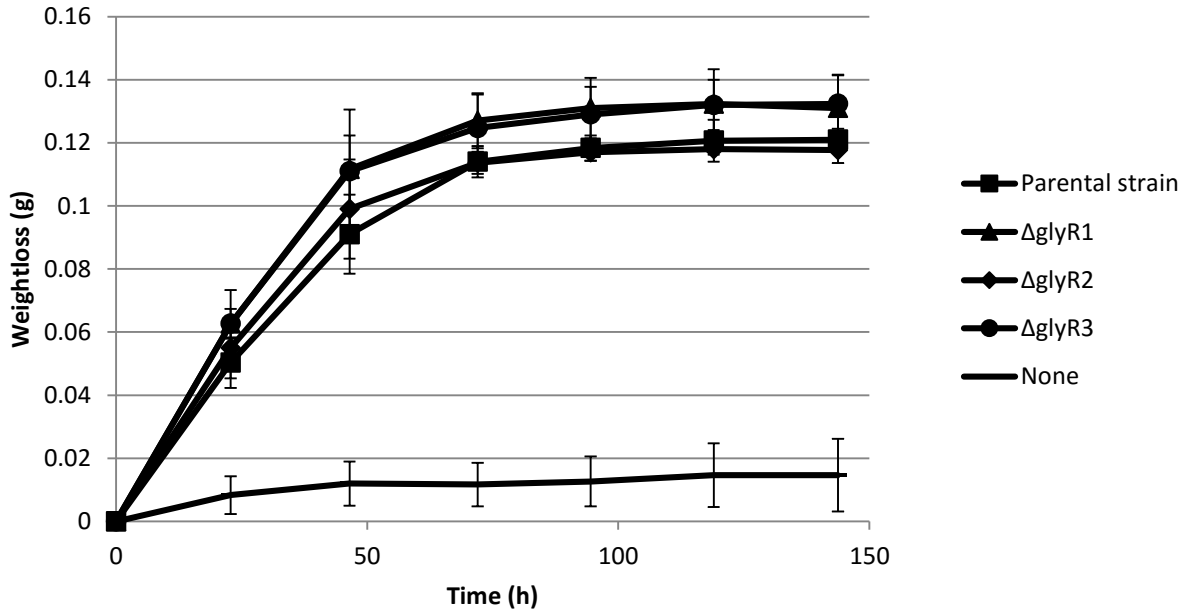



Supplementary Figure 1
Gel picture of transposon insertions. PCR amplification using flanking primers across (A) Clo1313_0145 using gDNA isolated from the parental and mutant (ΔClo1313_0089) strains and (B) Clo1313_1891 using gDNA isolated from the parental and mutant (ΔClo1313_2023) strains




Supplementary Figure 2. Growth of the parental and mutant strains on pretreated switchgrass. Growth measured my weight loss from venting gasses every 24 hours. Plotted are the average weight loss values in g of triplicate fermentations. Error bars are the standard deviation of the three replicates.

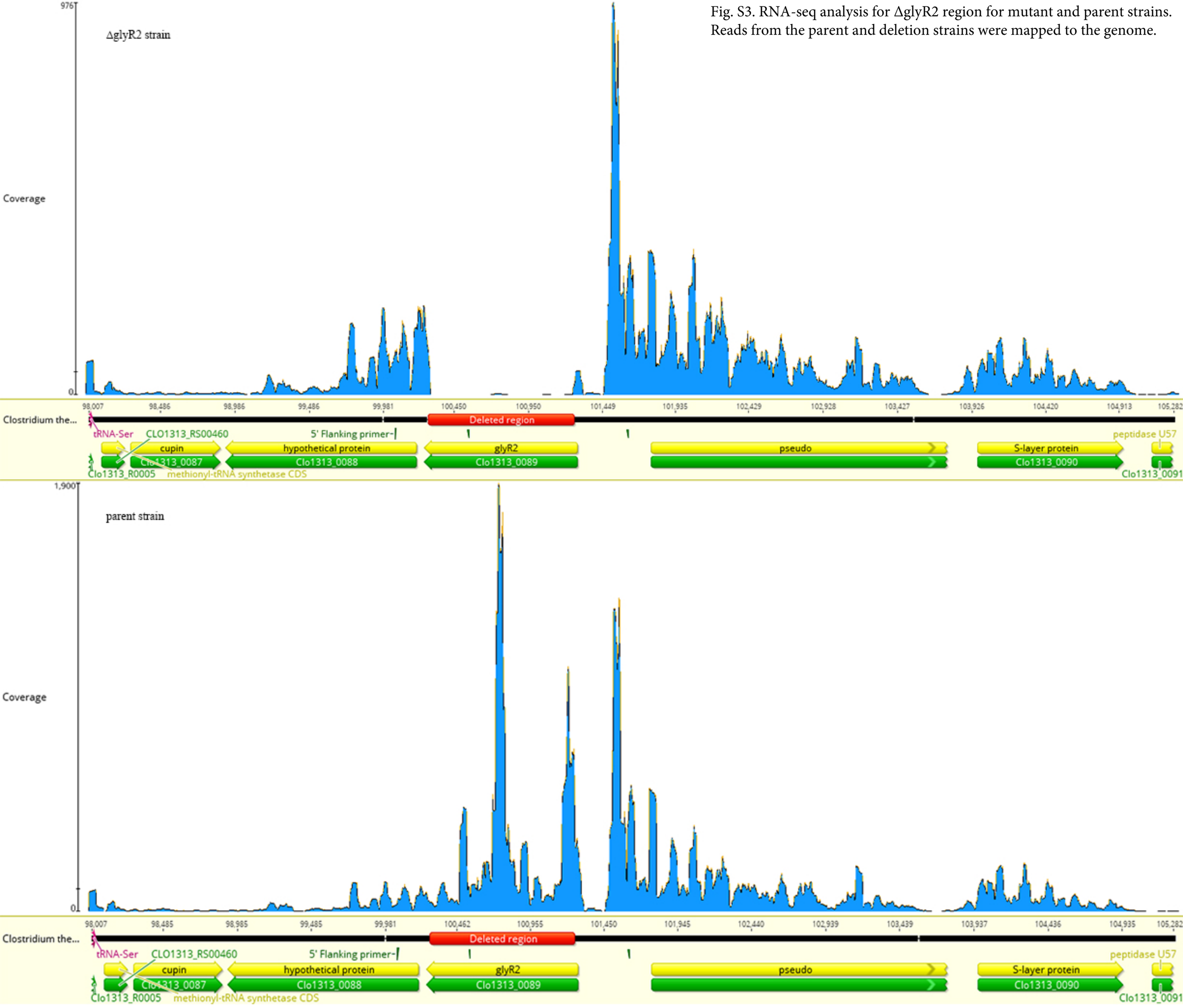



Fig. S3. RNA-seq analysis for ΔglyR2 region for mutant and parent strains. Reads from the parent and deletion strains were mapped to the genome.

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Thermoanaerobacter pseudethanolicus ATCC 33223.  KEGG: tpd:Teth39_2112
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Thermoanaerobacter pseudethanolicus ATCC 33223.  KEGG: tpd:Teth39_0300
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guanine phosphoribosyltransferase category=F  InterPro
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Thermoanaerobacter pseudethanolicus ATCC 33223.  KEGG: tpd:Teth39_0300
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