

Figure S1. Correlation analysis of serum hormone levels of Jining grey goats. * indicates that the correlation between the two traits has reached a significant level ($P < 0.05$), ** indicates that the correlation between the two traits has reached an extremely significant level ($P < 0.01$). follicle-stimulating hormone, FSH; luteinizing hormones, LH, progesterone, P; estradiol, E2; Insulin-like growth factor 1, IGF-1; Leptin, LEP.

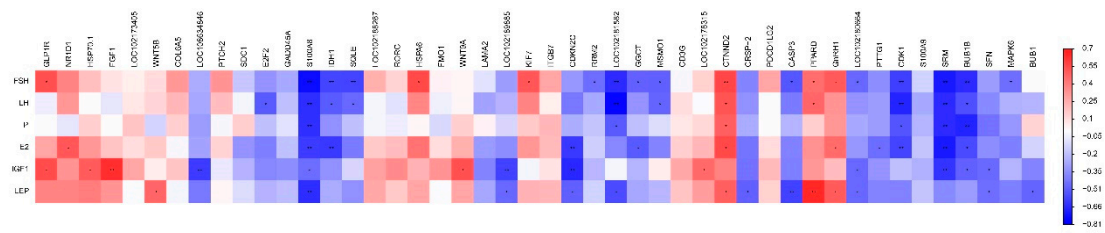


Figure S2. Correlation analysis of differentially expressed genes (DEGs) involved in reproductive pathways at different developmental stages of Jining grey goats and serum hormone levels. * indicates that the correlation between the two traits has reached a significant level ($P < 0.05$), ** indicates that the correlation between the two traits has reached an extremely significant level ($P < 0.01$).

