



Appendix D The ovarian morphology and serum reproductive hormone levels of LBS chickens in pre-laying and peak-laying stages. (A) the LBS chickens ovary morphology in 15 and 30 weeks. (B) Concentration of follicle stimulating hormone (FSH), luteinizing hormone (LH), estrogen (E₂), progesterone (PROG), and prolactin (PRL) in serum at pre-laying (L15w, n = 6) and peak-laying stages (L30w, n = 6). The blue dots indicate the individual's hormone concentration of pre-laying hens, and the red dots indicate the individual's hormone concentration of peak-laying hens. Significant difference:

* $p < 0.05$.



Appendix F RNA-Seq correlation check between samples in LBS chickens.

L15w_1 ~ L15w_3 are hypothalamic sample of 15-week-old Lushi blue-shelled-egg (LBS) hens from 1 to 3, and L30w_1 ~ L30w_3 are hypothalamic sample of 30-week-old LBS hens from 1 to 3. The horizontal and vertical coordinates are log₁₀ (FPKM + 1) of the samples compared with each other.