

Figure S1.

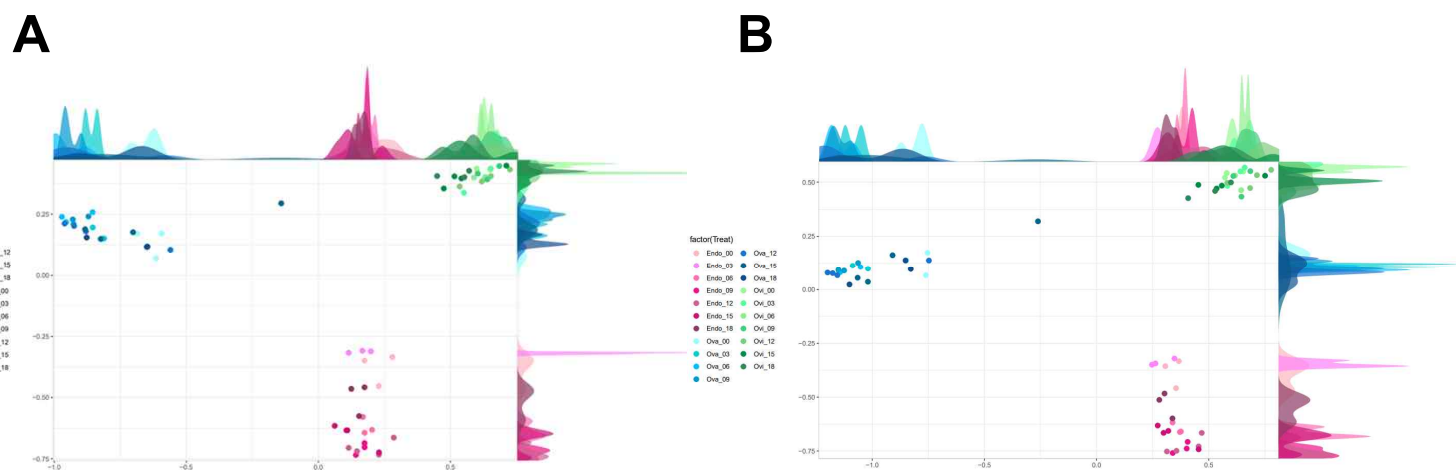


Fig S1. Separation of RNA-seq data by tissue and date. (A) Multidimensional scaling (MDS) plot of lncRNA (novel lncRNA and known lncRNA) data in three reproductive tissue, (B) of mRNA data in three reproductive tissue.

Figure S2.

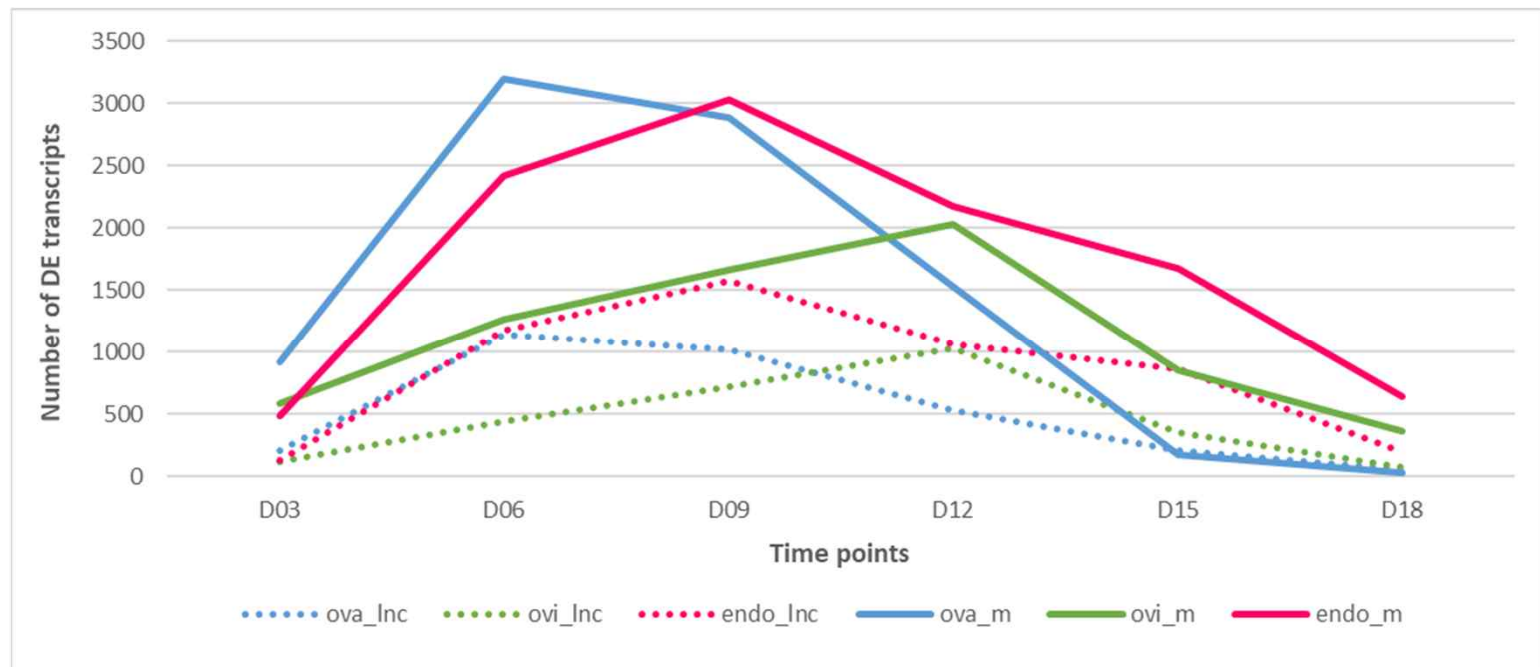
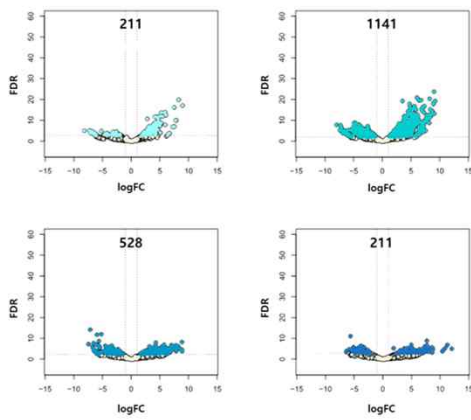


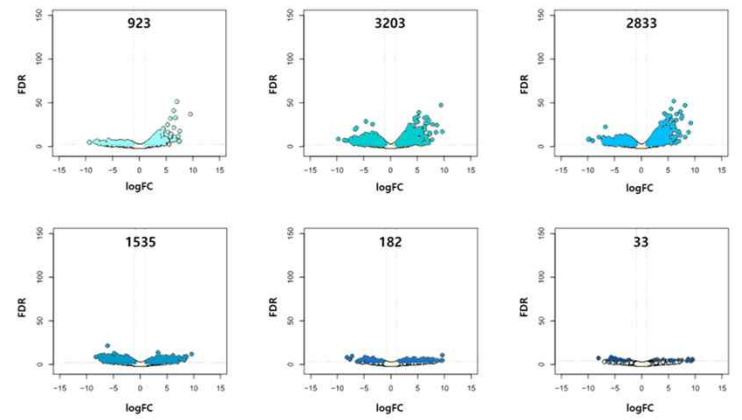
Fig S2. Dynamic changes of DEGs & DELs of three tissues (ovary, oviduct, endometrium). Comparing the start of estrous cycle (D00) with each time points (D03, D06, D09, D12, D15, D18).

Figure S3.

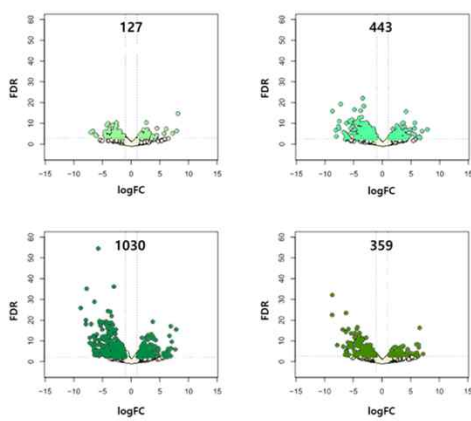
A



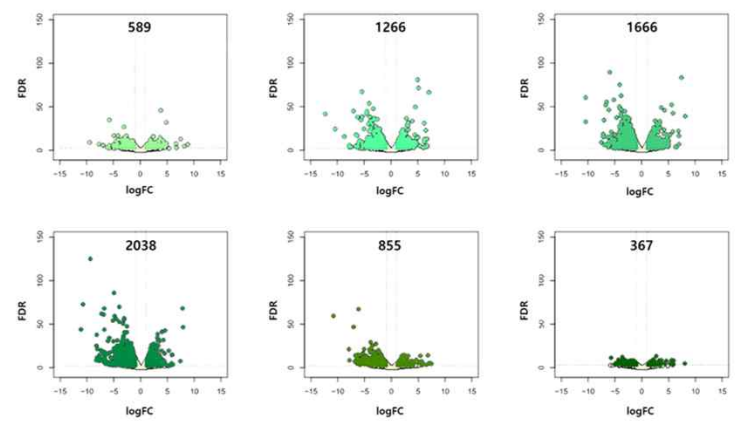
B



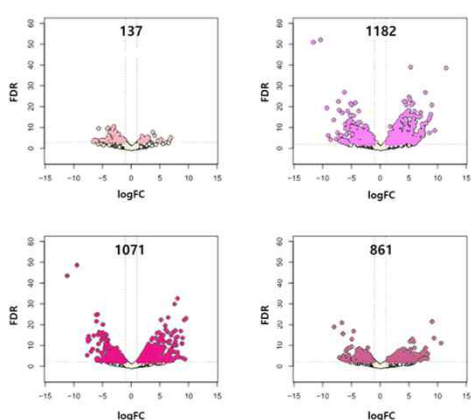
C



D



E



F

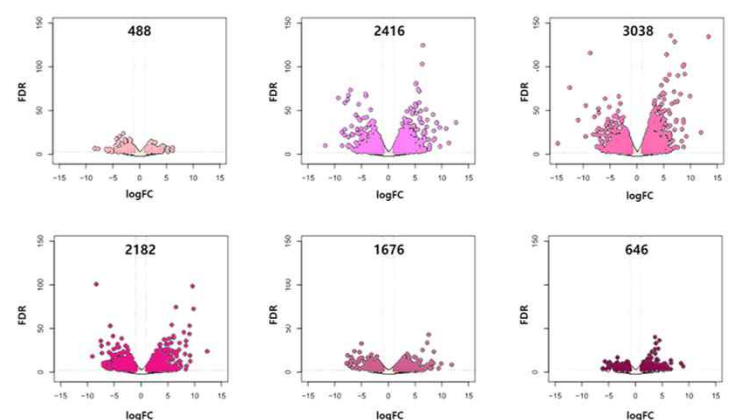
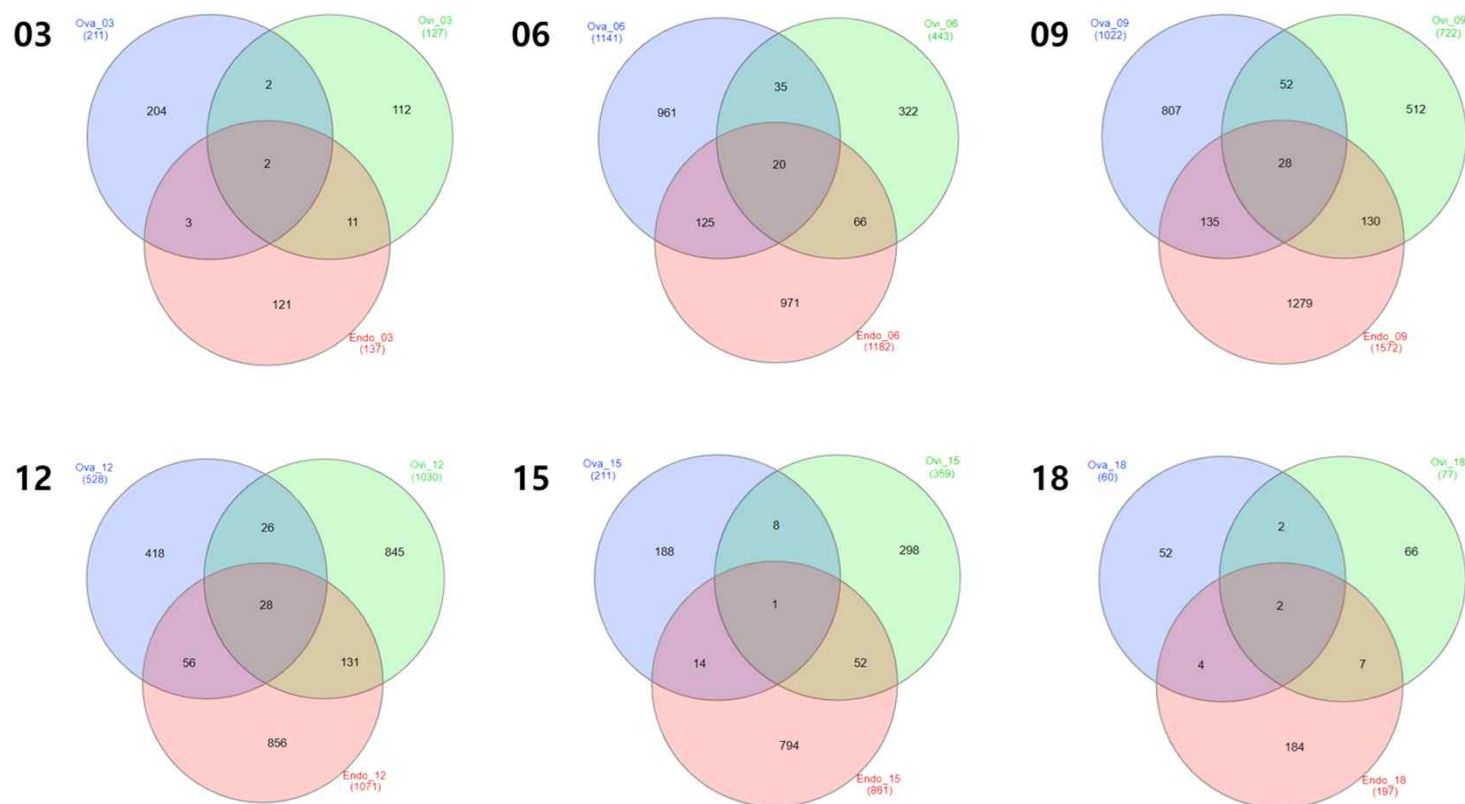


Fig S3. Number and pattern of DElncRNA and DEMRNA by tissue and date. (A) Volcano plot of DElncRNA in ovary, (B) of DEMRNA in ovary, (C) of DElncRNA in oviduct, (D) of DEMRNA in oviduct, (E) of DElncRNA in endometrium, (F) of DEMRNA in endometrium.

Figure S4.

A



B

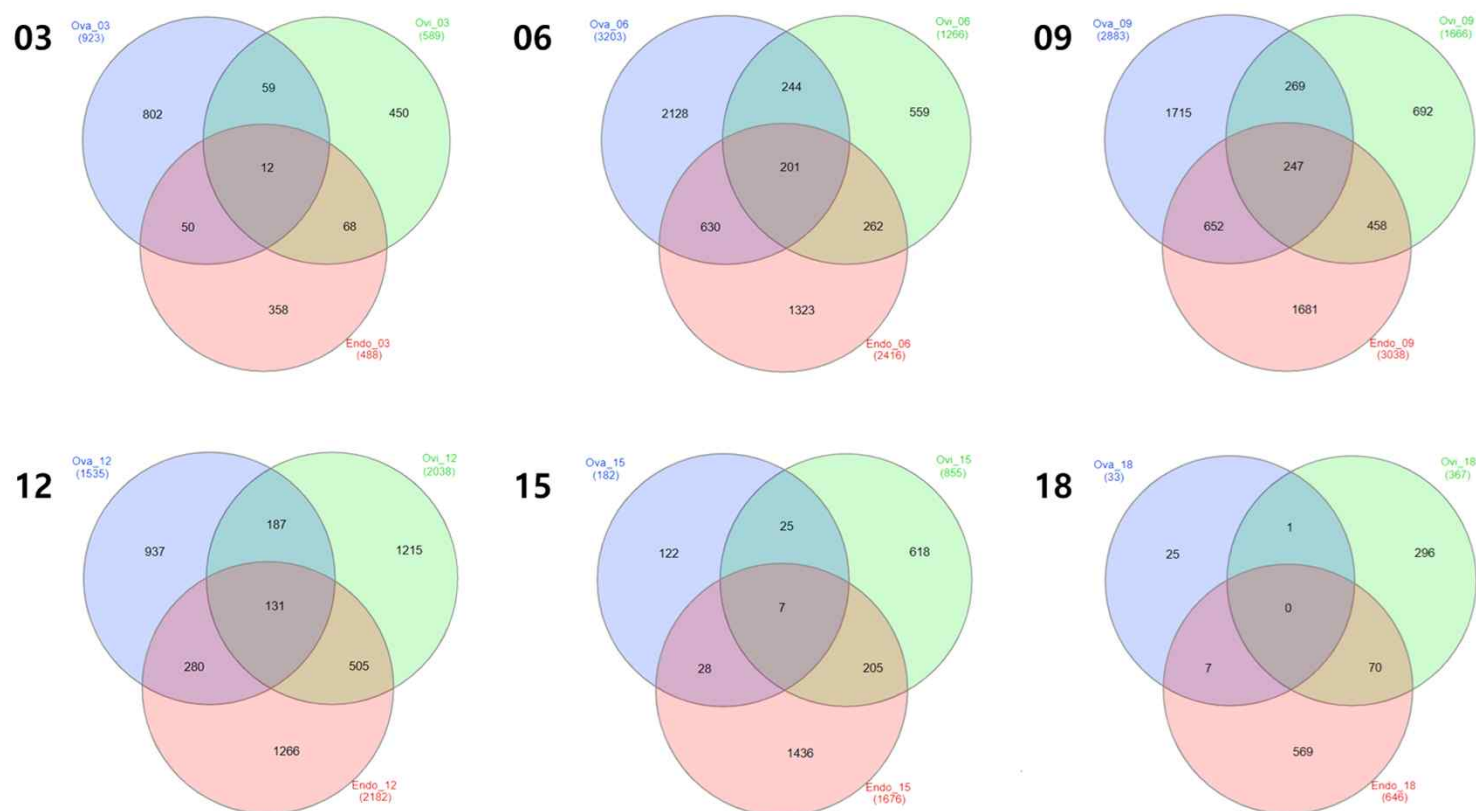


Fig S4. Number of DElncRNA and DEmRNA by tissue and date. (A) Venn diagram of DElncRNA in three reproductive tissue by date (D00 vs D03, D06, D09, D12, D15, D18), (B) of DEmRNA in three reproductive tissue by date (D00 vs D03, D06, D09, D12, D15, D18).

Figure S5.

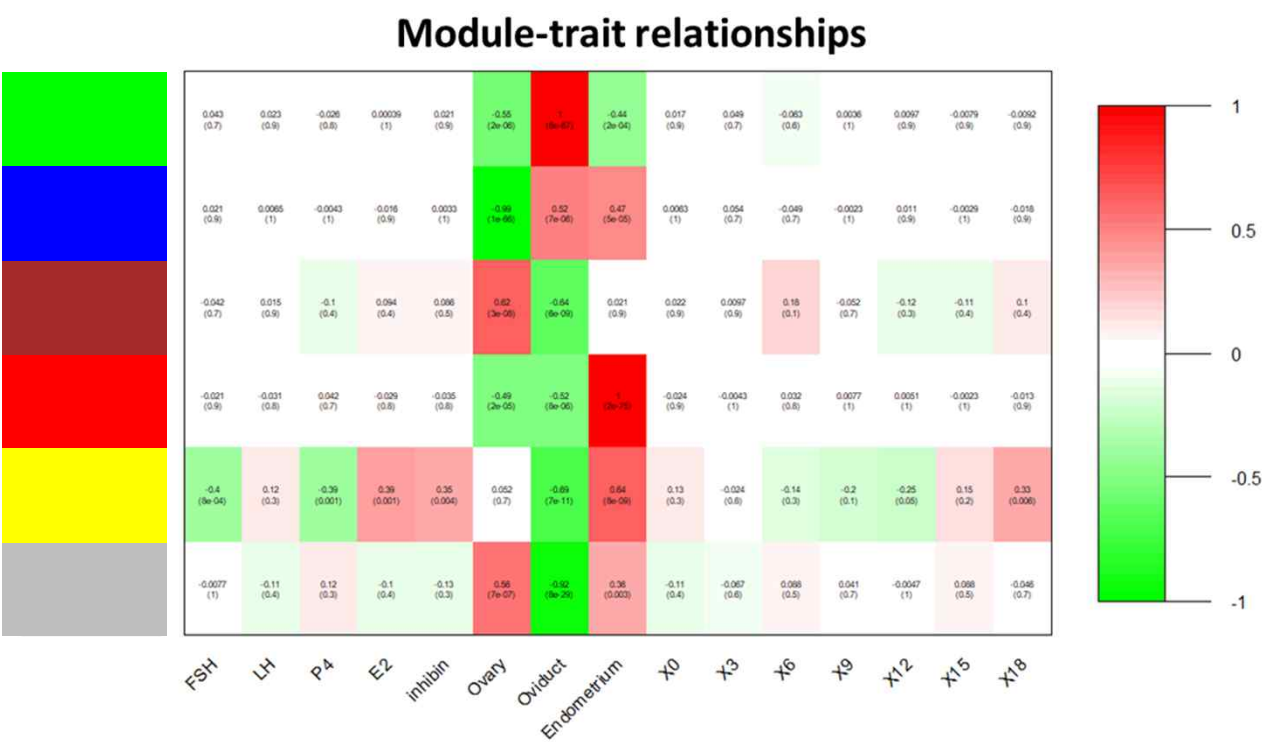
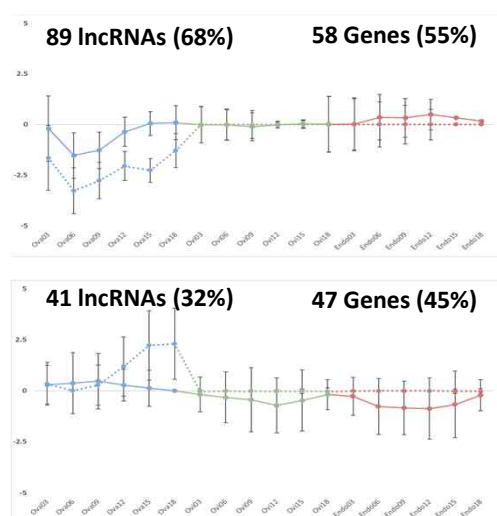


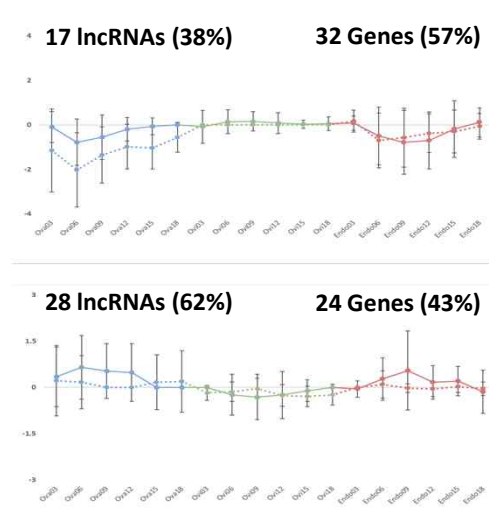
Fig S5. The original module-trait relationships heatmap of lncRNA according to hormones, tissues (ovary, oviduct, endometrium), and days (D00, D03, D06, D09, D12, D15 D18).

Figure S6.

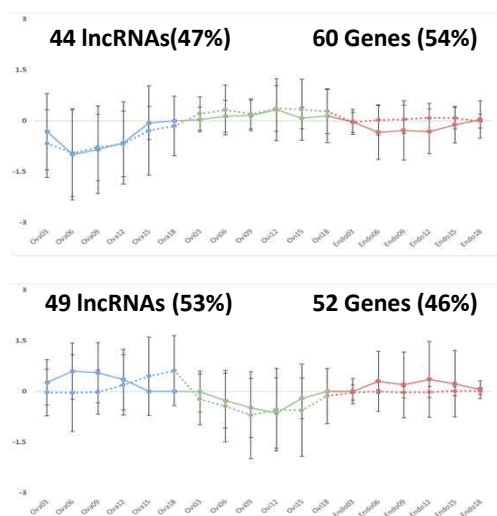
A



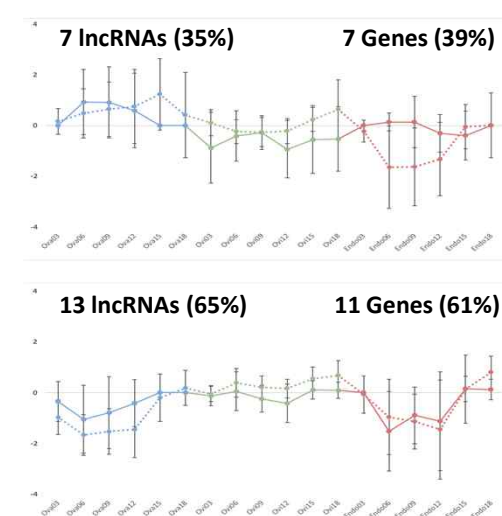
B



C



D



ova_lnc ovi_lnc endo_lnc ova_m ovi_m endo_m

Fig S6. Analysis of lncRNA and DEcis-acting gene clustering of each network by k-means clustering algorithm in multi-experimental viewer software. Gene clustering analysis showed two expression patterns in each of the four networks. (A) Gene clusters in the blue network, (B) in the green network, (C) in the red network, (D) in the yellow network.

Figure S7.

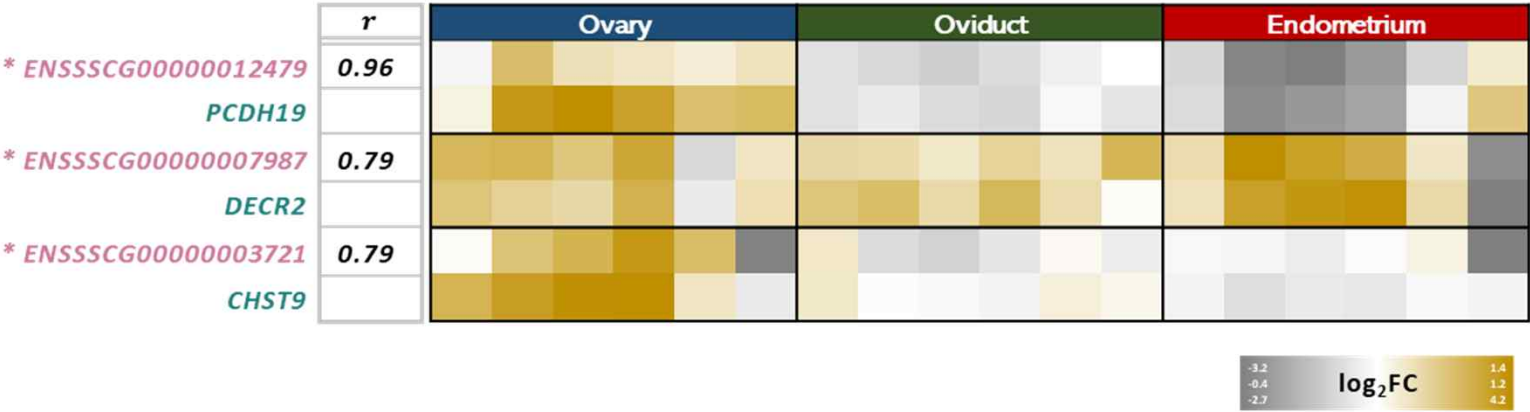


Fig S7. Correlation heatmap of the significant lncRNA and cis-acting gene of yellow network. Correlation coefficients (r) were calculated as $\log_2FC$ values. $\log_2FC$ of D03, D06, D09, D12, D15, and D18 in order from the first column to the last column of each tissue category. LncRNAs marked with an asterisk (*) indicate DElncRNAs.

Figure S8.

A



B



Fig S8. Correlation heatmap of the core lncRNA and main lncRNA. Correlation coefficients (*r*) were calculated as log₂TMM values. Log₂TMM of D00, D03, D06, D09, D12, D15, and D18 in order from the first column to the last column of each tissue category. LncRNAs marked with an asterisk (*) indicate both core lncRNA and main lncRNA. (A) Correlation heatmap of core lncRNA and main lncRNA of network from the blue, and (B) red modules.