

Ovary transcriptome profiling in high- and low-yielding Chinese Chahua laying chickens

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Electronic Supplementary Material (ESM)

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Table S1. Primers for qPCR

Gene	Accession number	Primers (5'→3')	Product length (bp)
MMP10-F	NM_001278089.1	AGTGGCTCCAGAAACTGCAA	160
MMP10-R		CTCCAGCCCAAAGAACGACT	
PTGS2-F	NM_001167719.1	CTGCGATTTCGAGCGCATT	83
PTGS2-R		GCACAAGGCAGCAGCATATC	
MMP9-F	NM_204667.1	ACCTCTATGGTCGTGGCTCT	197
MMP9-R		GGCGTCGAAGTTCTTCTCCA	
MMP13-F	NM_001293090.1	GAGCTCATGCAGAAACCACG	187
MMP13-R		GGGGTGTACATCAGACCAA	
HGF-F	NM_001030370.4	GGGTAAAGACCTGCGGGAAA	123
HGF-R		ACTTCAGAGCAGAGGGGGAT	
PTHLH-F	NM_001174106.1	CGAACAACGGTTTAAGCCCC	145
PTHLH-R		ATACGGCCCGTTTGAGTCTG	
BMPR2-F	NM_001001465.1	CTCCTCACAGGACGGCAAAT	139
BMPR2-R		GCCGTTATTGTTGACCTCGC	
FOXA2-F	NM_204770.1	AGCGCATCACCTGCTGGCC	183
FOXA2-R		GCCTTGAGGTCCATTTTGTGC	
CDH1-F	NM_001039258.2	TGGATGGTGCCTTCAGCATT	215
CDH1-R		GATAGGGGGCACGAAGACAG	
ACTB-F	NM_205518.1	ACCGGACTGTTACCAACACC	116
ACTB-R		CCTGAGTCAAGCGCCAAAAG	

Table S2. RNA-seq reads and mapping rate of ovary tissues from high-yielding (H) and low-yielding (L) hens

Sample No.	raw_reads	clean_reads	clean_bases	Q20 (%)	Q30 (%)	GC (%)	unique_map (%)	multi_map (%)	total_map (%)	reads to exon (%)
H1	46023048	44296528	6.64G	98.55	95.82	50.17	91.34	1.98	93.32	75.52
H2	45712164	44045146	6.61G	98.49	95.59	50.27	91.17	1.84	93.01	76.52
H4	48038962	46653072	7.0G	97.38	93.13	49.85	90.73	1.63	92.36	73.89
L1	46016438	44309750	6.65G	97.39	93.37	54.33	85.14	1.99	87.13	81.96
L2	45469454	44117690	6.62G	97.50	93.47	52.44	89.75	1.94	91.69	82.30
L3	45449384	44172686	6.63G	97.48	93.33	53.96	88.89	1.98	90.88	80.42

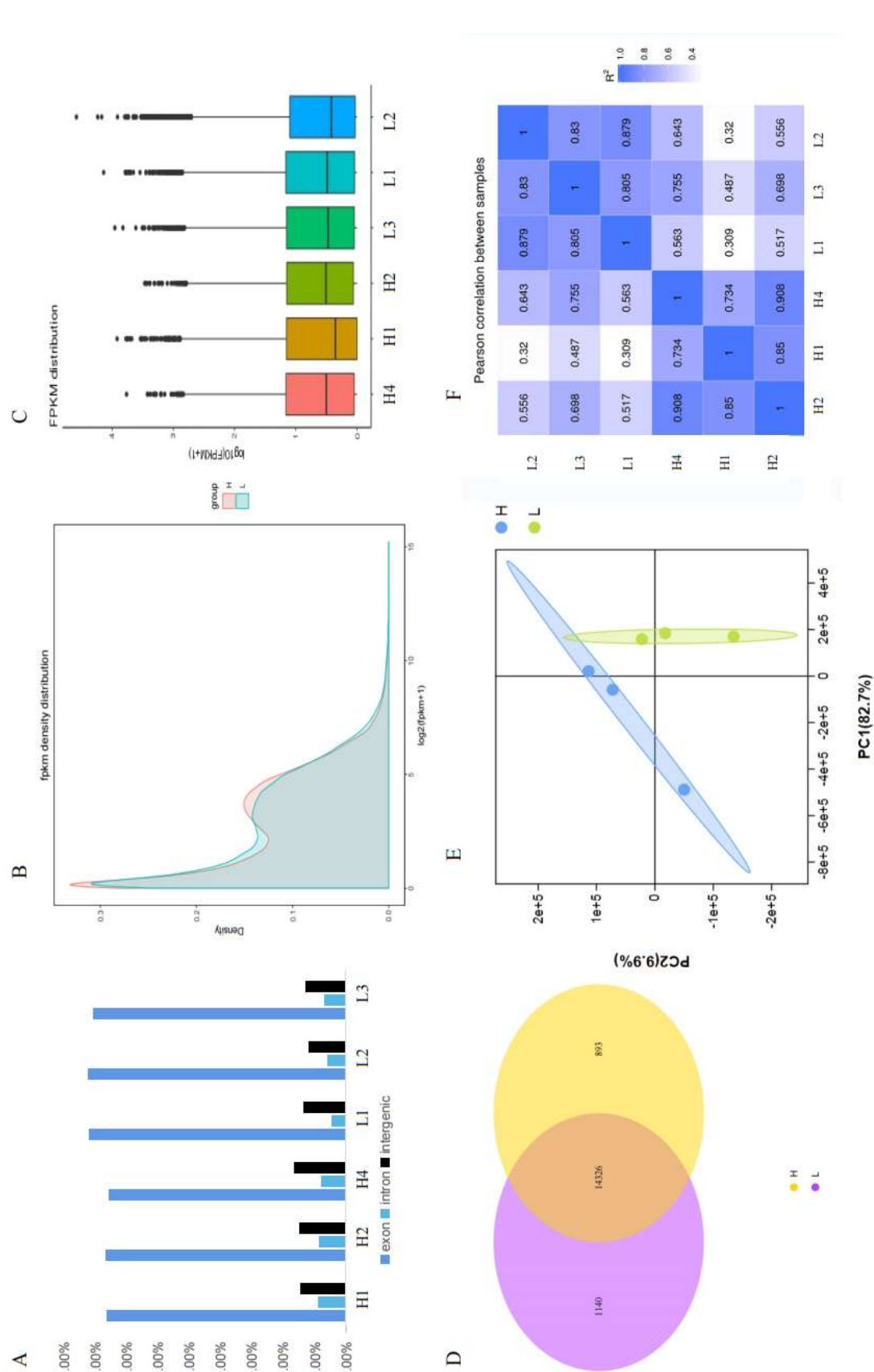


Figure S1. Overview of ovary transcriptome (A) The proportion of mRNAs in the exon region, intron region, and intergene region. (B) The distribution of expression level of mRNAs. (C) The expression levels of mRNAs. (D) Venn diagrams showing a common and unique expression profile in the two groups. (E) PCA analysis of samples. (F) Correlation between samples. H represents high-yielding hens. L represents low-yielding hens