



Supplementary Fig. 1. A) Venn diagram of differentially expressed genes in acne patients and healthy volunteers from GSE212605 dataset, the target genes of miR-1298-5p from starBase database, and the acne-related genes from GeneCards database. **B)** Expression graph of *HYOU1*, *ESR1* and *IGF1R* in acne patients and healthy volunteers from GSE212605 dataset

Supplementary Table 1. Primers for RT-qPCR

Gene	Forward or reverse	Primer sequence
hsa_circ_0001445	Forward	5'-GATGGTCAAGCCCTACCCTG-3'
	Reverse	5'-CCCTGATGCTACTGGTTGCC-3'
miR-1298-5p	Forward	5'-ACACTCCAGCTGGGTTTCATTCGGCTGTCCA-3'
	Reverse	5'-TGGTGTTCGTGGAGTCG-3'
ESR1	Forward	5'-TTACTGACCAACCTGGCAGA-3'
	Reverse	5'-ATCATGGAGGGTCAAATCCA-3'
U6	Forward	5'-TGCGGGTGCTCGCTTCGGCAGC-3'
	Reverse	5'-CCAGTGCAGGGTCCGAGGT-3'
GAPDH	Forward	5'-GTCAAGGCTGAGAACGGGAA-3'
	Reverse	5'-AAATGAGCCCCAGCCTTCTC-3'