

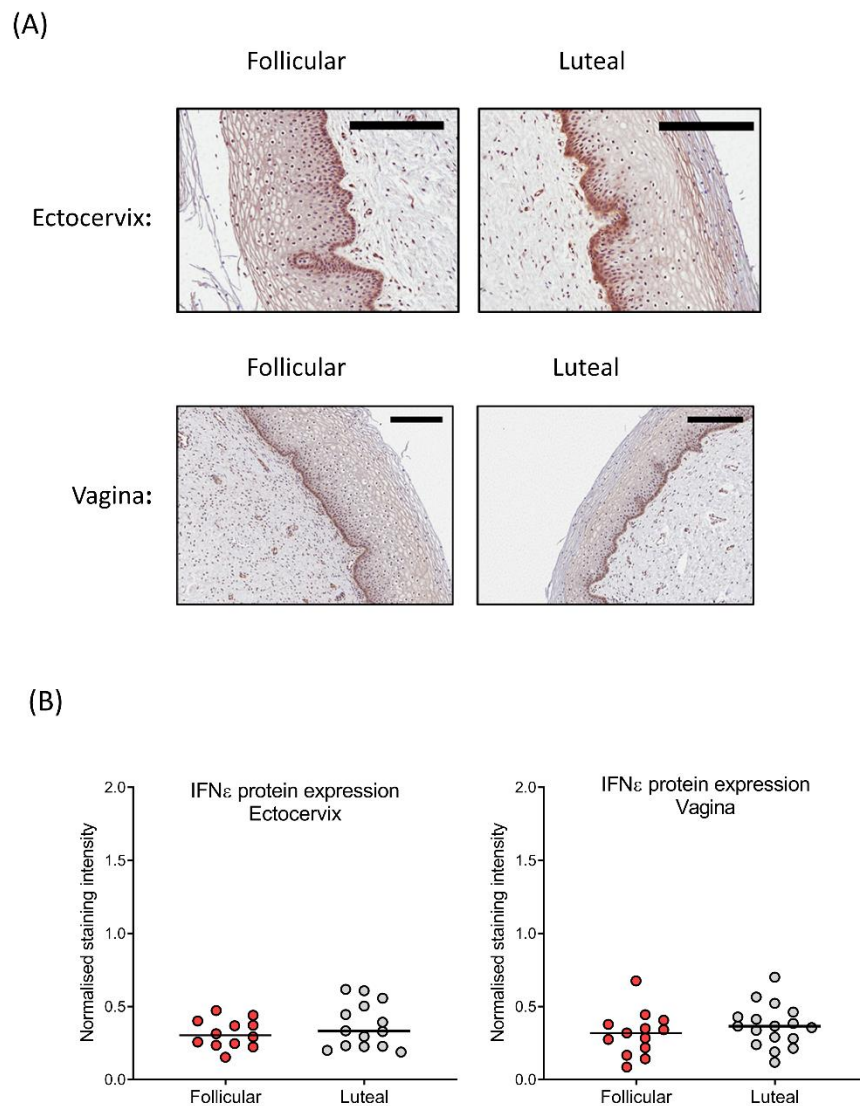


Figure S1. (A) Representative IHC images of IFN ϵ (brown) in vaginal and ectocervical sections in the follicular and luteal phase of menstrual cycle. Bar, 200 μ M. (B) Quantification of ectocervical and vaginal epithelial IFN ϵ staining intensity in women in follicular or luteal stage of menstrual cycle.

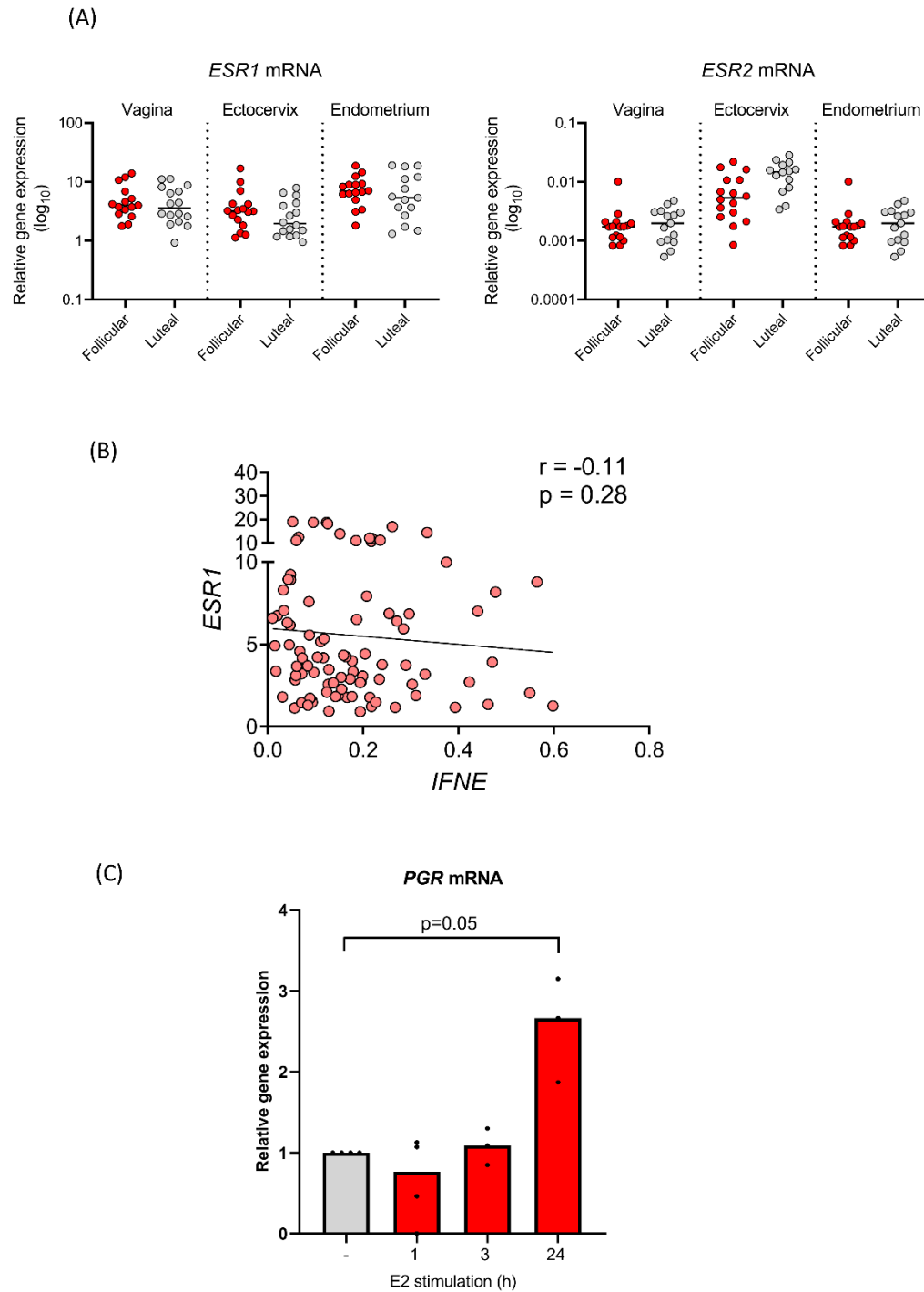


Figure S2. (A) Expression of *ESR1* and *ESR2* in vaginal, ectocervical and endometrial biopsies as determined using qPCR. Expression stratified by stage of menstrual cycle and median expression is shown. Data analysed using Kruskal-Wallis testing with Dunn's multiple comparison analysis. (B) Spearman correlation analysis of *ESR1* and *IFNE* expression in the FRT. (C) *PGR* mRNA expression in primary uterine epithelial cells from $n=3$ donors stimulated with 10nM estrogen for up to 24h. Data analysed using Kruskal-Wallis testing with Dunn's multiple comparison analysis.

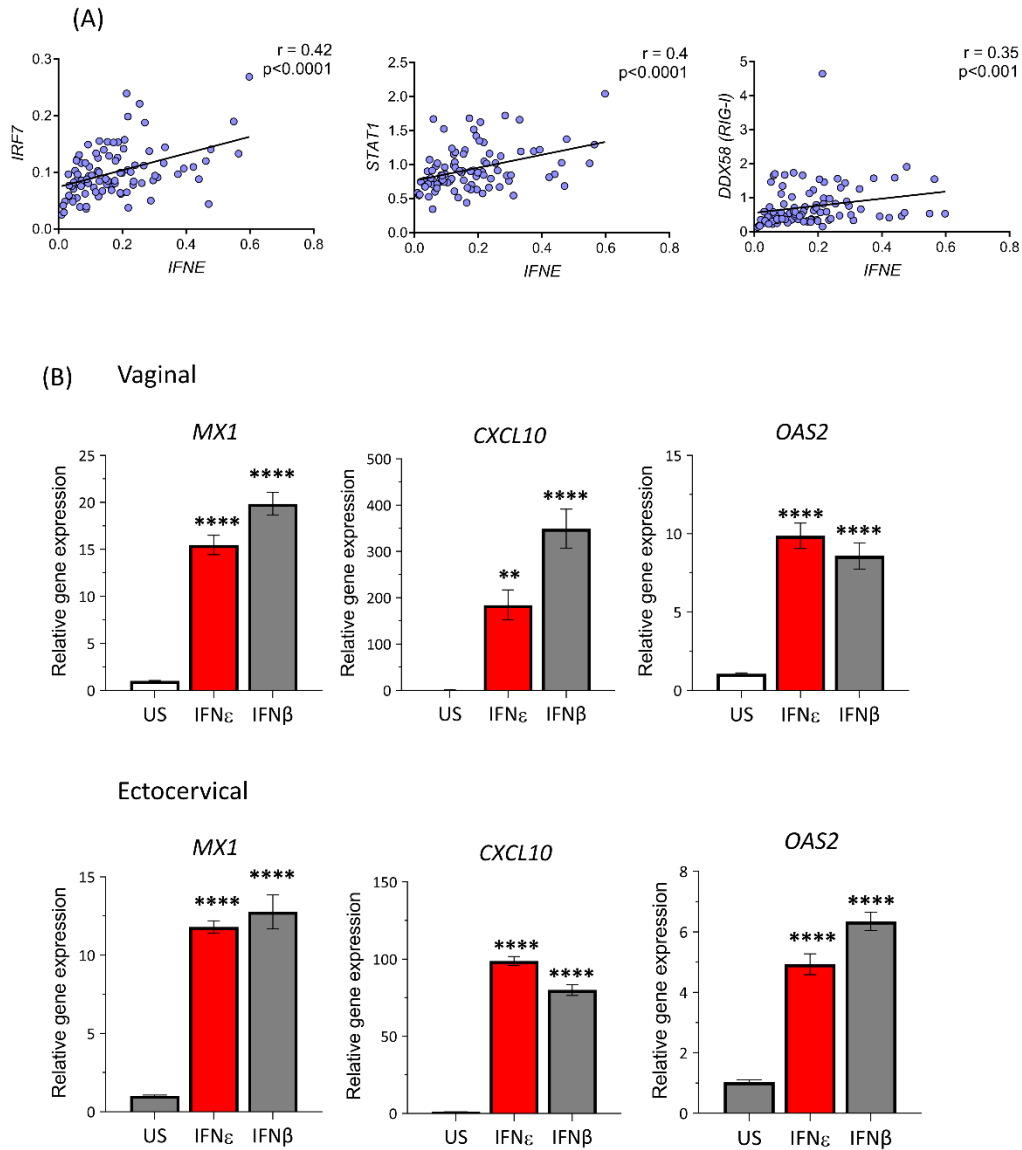


Figure S3. (A) Spearman correlation analysis of the expression of *IFNE* with the IRGs, *IRF7*, *STAT1* and *DDX58* across FRT samples. (B) Vaginal (VK2) and ectocervical (Ect1) cells were stimulated for 3hrs with 100 IU/ml of recombinant *IFN ϵ* or *IFN β* and expression of the IRGs *MX1*, *CXCL10* and *OAS2* were quantified by qPCR. Expression relative to unstimulated control (US). Data from $n=3$ independent biological replicates, shown as mean $\pm$ SEM and analysed using one-way ANOVA with Dunnett's multiple comparisons testing ** $p < 0.01$, **** $p < 0.0001$.

Supplemental Table 1: Taqman probe IDs

Gene name	Taqman ID
<i>IFNA1</i>	Hs00855471 g1
<i>IFNA2</i>	Hs00265051 s1
<i>IFNA4</i>	Hs01681284 sH
<i>IFNB</i>	Hs01077958 s1
<i>IFNL1</i>	Hs00601677 g1
<i>IFNL2</i>	Hs00820125 g1
<i>IFNL3</i>	Hs04193047 gH
<i>IFNE</i>	Hs00703565 s1
<i>IFNY</i>	Hs00989291 m1
<i>ESR1</i>	Hs00174860 m1
<i>PGR</i>	Hs01556702 m1
<i>ESR2</i>	Hs00230957 m1
<i>18S</i>	Hs99999901 s1
<i>RPLPO</i>	Hs00420895 gH
<i>HMBS</i>	Hs00609296 g1
<i>MX1</i>	Hs00895608 m1
<i>OAS2</i>	Hs00942643 m1
<i>CXCL10</i>	Hs01124251 g1
<i>DDX58</i>	Hs00204833 m1
<i>IRF7</i>	Hs01014809 g1

Supplemental Table 2: Primers for SyBr green qPCR

	F	R
<i>18S</i>	GTAACCCGTTGAACCCATT	CCATCCAATCGGTAGTAGCG
<i>MX1</i>	GGTGGTGGTCCCCAGTAATG	ACCACGTCCACAACCTTGTCT
<i>CXCL10</i>	TTCCTGCAAGCCATTTGT	TTCTTGATGGCCTTCGATTC
<i>OAS2</i>	GAAGCCCTACGAAGAATGTCAGA	TCGGAGTTGCCTCTTAAGACTGT