

Supplementary file 3

SPSS output of Variance components via linear mixed effect model

Genes	Estimate	Std error	Wald Z	P values
<i>IFNAR1</i>				
Residual	0.0396	0.0108	3.6740	0.0000
Cow variance	0.0311	0.0067	0.4630	0.6430
<i>IFNAR2</i>				
Residual	0.0236	0.0064	3.674	0.0000
Cow variance	0.0076	0.0065	1.1610	0.2460
<i>JAK1</i>				
Residual	0.0478	0.0130	3.6740	0.0000
Cow variance	0.1942	0.0151	1.2820	0.0000
<i>TYK2</i>				
Residual	0.0533	0.01450	3.6740	0.0000
Cow variance	0.0006	0.0074	0.0790	0.9370
<i>IRF7</i>				
Residual	0.0583	0.0158	3.6740	0.0000
Cow variance	0.0059	0.0104	0.5690	0.5690
<i>IRF9</i>				
Residual	0.0574	0.0156	3.6740	0.0000
Cow variance	0.0009	0.0081	0.108	0.914
<i>STAT1</i>				
Residual	0.5784	0.1574	3.6740	0.0000
Cow variance	0.0079	0.0112	0.7060	0.4800
<i>STAT2</i>				
Residual	0.5744	0.0156	3.6740	0.0000
Cow variance	0.0056	0.0102	0.556	0.578
<i>IFNG</i>				
Residual	0.0863	0.0203	4.230	0.0000
Cow variance	N/A	N/A	N/A	N/A
<i>PIAS2</i>				
Residual	0.0732	0.0199	3.674	0.0000
Cow variance	0.0067	0.0128	0.5280	0.597
STAT2 Protein				
Residual	10844.27	3071.08	3.5310	0.0000
Cow variance	10318.69	6310.99	1.635	0.102