

Supplementary Table 1. List of early genes induced after 2 h HK bacteria treatment of IPEC-J2 cells, and their association to biological processes and KEGG pathways.

gene symbol	GO biological processes														KEGG pathways									
	acute inflammatory response GO:0002526	cell activation GO:0001775	cell migration GO:0016477	chemotaxis GO:0006935	cytokine production GO:0001816	defense response GO:0006952	immune response GO:0006955	inflammatory response GO:0006954	JAK-STAT cascade GO:0007259	regulation of cell death GO:0010941	regulation of cell proliferation GO:0042127	regulation of response to stress GO:0080134	response to bacterium GO:0009617	response to cytokine GO:0034097	response to virus GO:0009615	response to wounding GO:0009611	tissue remodeling GO:0048771	type I IFN-med. signaling pathway GO:0060337	Chemokine signaling pathway	Cytokine-cytokine receptor interaction	Cytosolic DNA-sensing pathway	Jak-STAT signaling pathway	NOD-like receptor signaling pathway	RIG-I-like receptor signaling pathway
CCL2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
CCL4		x	x	x	x	x	x	x						x	x	x	x	x	x	x	x	x		
CCL5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
CD274	x				x		x				x													
CD40	x				x	x	x	x	x	x	x				x	x			x			x		
CEBDP																								
CFLIP																								
CYP1A1												x		x	x									
CYR61		x	x							x	x				x									
GADD45A																								
HAS3																								
ICAM-1																								
IL12B	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
IL19					x		x		x									x	x	x	x			
IL23A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
IL6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
IRF1	x				x	x	x		x	x	x	x		x	x	x	x	x						
MFSD2A																								
MYC									x	x	x			x				x						
PIAP																								
PLAU		x	x							x	x				x									
PLET																								
RHOV																								
SLC2A6																								
SOC3S					x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x			
SPP1		x	x		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
STAT5A	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
TIPARP																								
VCAM1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x								

Supplementary Table 2. List of late genes induced after 24 h HK bacteria treatment of IPEC-J2 cells, and their association to biological processes and KEGG pathways.

Supplementary Table 3. List of genes induced after both 2 h and 24 h HK bacteria treatment of IPEC-J2 cells, and their association to biological processes and KEGG pathways.

gene symbol	GO biological processes												KEGG pathways					
	acute inflammatory response GO:0002526	cell activation GO:0001775	cell migration GO:0016477	chemotaxis GO:0006935	cytokine production GO:0001816	defense response GO:0006952	immune response GO:0006955	inflammatory response GO:0006954	JAK-STAT cascade GO:0007259	regulation of cell death GO:0010941	regulation of cell proliferation GO:0042127	regulation of response to stress GO:0080134	response to bacterium GO:0009617	response to cytokine GO:0034097	response to virus GO:0009615	response to wounding GO:0009611	tissue remodeling GO:0048771	type I IFN-med. signaling pathway GO:0060337
AMCF-II										x								
C3	x				x	x	x	x					x					
CCL20			x		x	x	x	x				x		x		x	x	
CHI3L1				x	x			x					x	x				
CSF2	x			x		x		x	x	x	x	x			x	x	x	
CXCL10		x	x		x	x	x			x		x	x	x	x	x	x	
CXCL2	x	x	x		x	x	x				x	x	x	x	x	x	x	x
CYP3A29																		
CYP3A46																		
IL1A	x			x	x	x	x		x	x	x	x	x	x	x	x		
IL8	x	x	x		x	x	x			x		x	x	x	x	x	x	x
LTB				x		x									x			x
NFKBIA				x	x	x			x	x	x	x			x	x	x	x
PGLYRP2	x			x	x	x				x	x							
RGS4																		
S100A8	x	x	x	x	x	x	x		x		x	x		x				
S100A9		x	x	x	x	x	x		x		x	x		x				
SAA2	x			x		x							x					