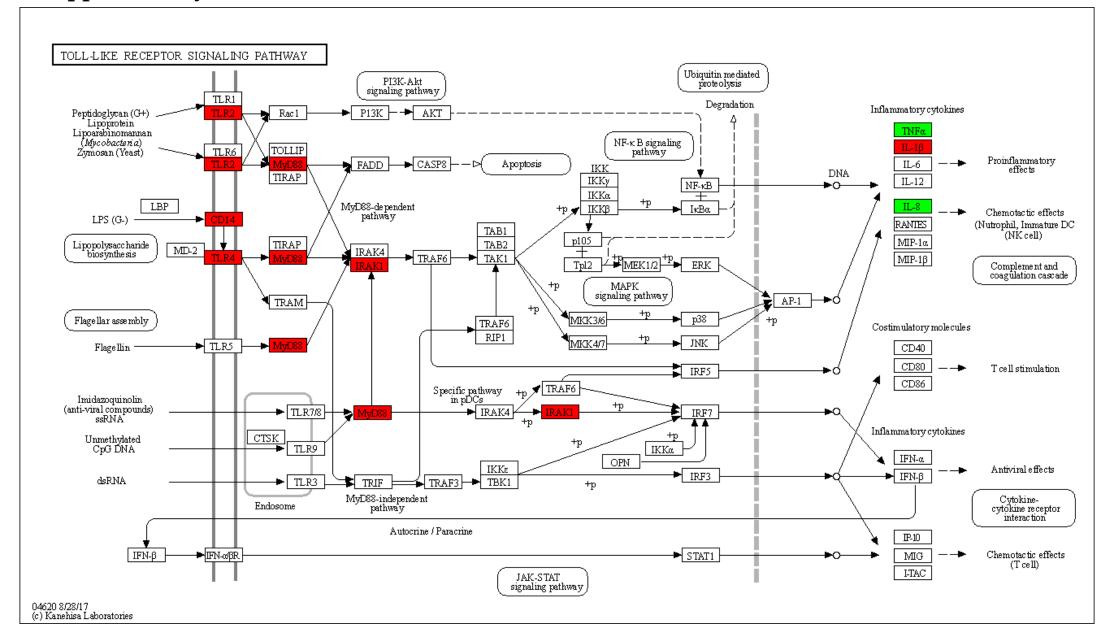
Supplementary File



- 2 Figure S1. Changes of the whole blood leukocytes gene expression in the KEGG TOLL-LIKE RECEPTOR signaling pathway in PEG compared with CTR cows,
 - regardless the breed. Red boxes are genes with increased expression in PEG cows, whereas green boxes are genes with reduced expression in PEG cows.

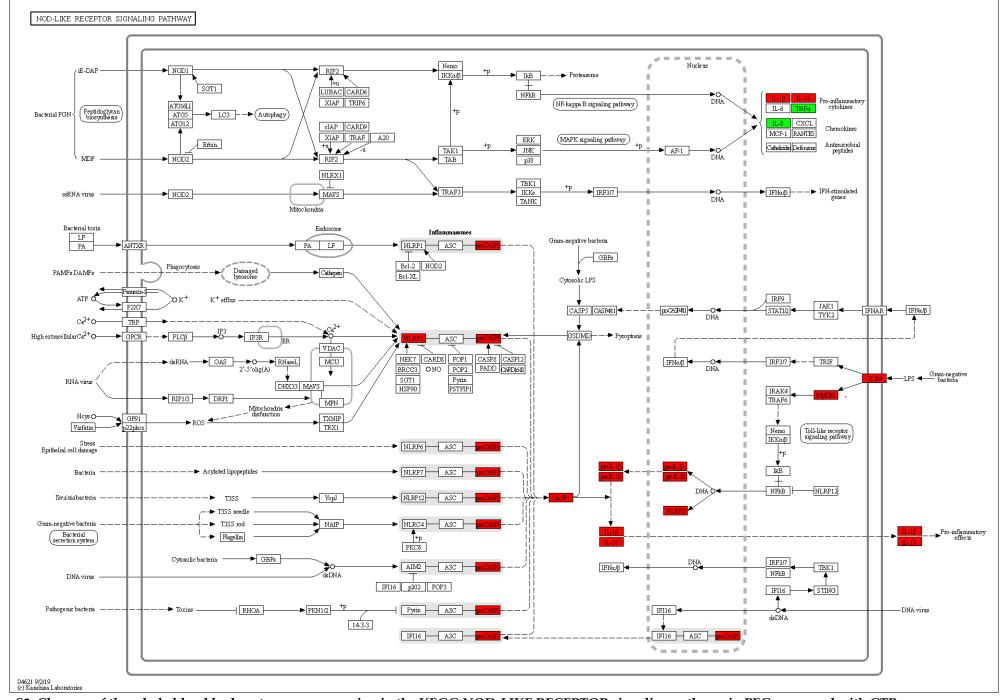


Figure S2. Changes of the whole blood leukocytes gene expression in the KEGG NOD-LIKE RECEPTOR signaling pathway in PEG compared with CTR cows, regardless the breed. Red boxes are genes with increased expression in PEG cows, whereas green boxes are genes with reduced expression in PEG cows

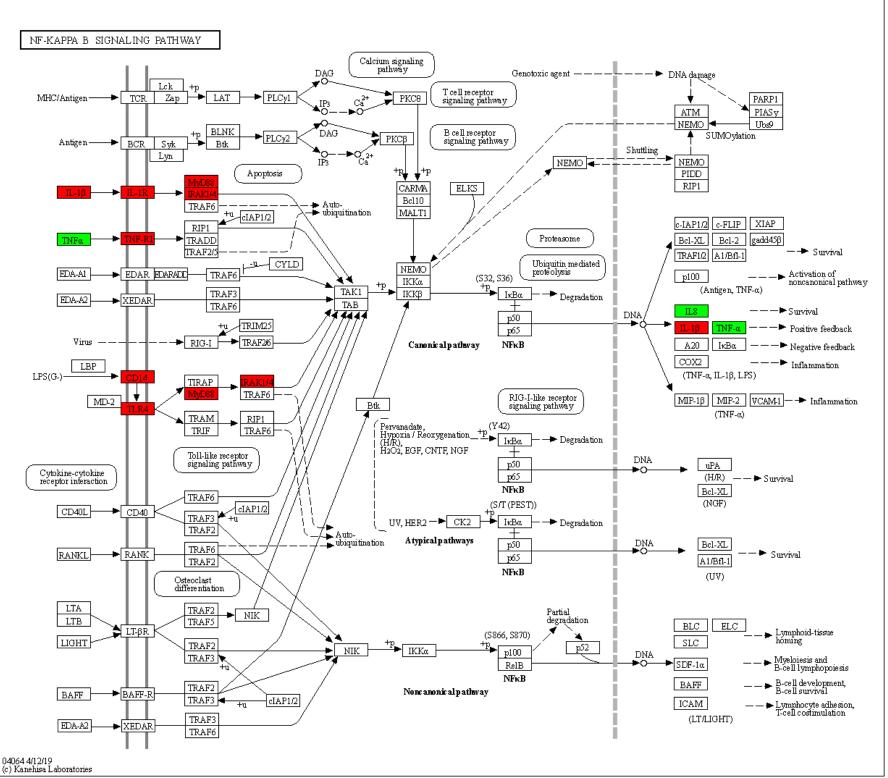


Figure S3. Changes of the whole blood leukocytes gene expression in the KEGG NF-KAPPA B signaling pathway in PEG compared with CTR cows, regardless the breed. Red boxes are genes with increased expression in PEG cows, whereas green boxes are genes with reduced expression in PEG cows.

CELL ADHESION MOLECULES Endothelial Leukocyte Endothelial cells cell IMMUNE SYSTEM APC (DC, Macrophage) CLDN CLDN Cytotoxic T cell T Cell Target cell JAM1 JAM1 OCLN OCLN CD58 CD2 CD2 CD58 ICAMB CD28 CD80 JAM1 JAM1 VISTA IGSF11 PD-L1 CD86 ICAMI PD-L1 JAM2 JAM2 MHC-I TCR JAM3 JAM3 ITGAM CD8 ICAM2 CD86 CTLA4 ESAM ESAM ICOS ICAML23 Icoslg JAM3 JAM3 CDHS CDH5 Peptide CD40 CD40L ITGA4 MHC-II **├○→** TCR JAM2 PECAMI PECAMI ITGB1 PVR CD226 CD4 CD99 CD99 TIGIT PVRL2 ITGA9 Peptide VCAM1 (Tc) MHC-I **├○►** PVRL3 ITGB1 TCR Tight junction CD8 ITGA4 Helper T cell B Cell ITGB7 ? PD-L1 Le ukocyte transe ndothelial PD-L2 PDCD1 migration MACAMI CD2 CD58 Leukocyte Platelet GH/CAMI B7H3 CD28 CD80 2 CD34 B7H4 PD-L1 CD86 ITGAM JAM3 CD40L CD40 Peptide_ SELP MHC-II TCR SELP ALCAM CD6 CD4 CD40L GLG1 SELE CD40 PVR CD226 CD40L CD40 TIGIT Th1) ICAM2 PECAMI ← ► PECAMI PVRL2 PD-L1 CD226 CD99 CD99 PDCD1 PD-L2 Endothelial Platele t ►ICAML23 cell PVR ICAM123 CD226 JAM1 JAM1 PVRL2 ICAM1,23 ICAML23 CD40L CD40 CD22 PTPRC CD2 CD58 CD22 PTPRC PECAMI PECAMI SN SPN Leukocyte Complement and T cell receptor signaling pathway transe ndothelial coaguľation cascade migration 04514 4/12/19 (c) Kanehisa Laboratories

Figure S4. Changes of the whole blood leukocytes gene expression in the KEGG CELL ADHESION molecules in PEG compared with CTR cows, regardless the breed. Red boxes are genes with increased expression in PEG cows, whereas green boxes are genes with reduced expression in PEG cows.