Table S2. Gene set enrichment analysis (GSEA). GSEA was performed in which the genes with differential expression were sorted on the basis of gene function using Ingenuity Pathway Analysis software. The top 5 canonical pathways identified by the program are shown. The ratio shows the number of differentially expressed genes as a proportion of the total number of genes in that pathway.

Pathway name	p-value	Ratio
PI3K Signaling in B Lymphocytes	2.70E-07	8/146 (0.055)
B Cell Development	2.70E-05	4/37 (0.108)
Altered T Cell and B Cell Signaling in Rheumatoid Arthritis	6.07E-05	5/92 (0.054)
B Cell receptor Signalling	7.33E-05	6/157 (0.038)
Primary Immunodeficiency Signaling	1.26E-04	4/63 (0.063)