



**Fig. S12.** GO Enrichment analysis of 352 genes located in the outlier region of chromosome 4. Top: Enrichment is defined as the relative frequency of the term in the outlier region divided by the relative frequency across the genome. For 134 GO terms that appear in the outlier region at least four times and are enriched by a factor of at least two, we show their enrichment (y-axis), their raw count (size), and the BH adjusted *p*-value for the enrichment test. Bottom: Four significantly enriched GO terms (BH-adjusted *p* < 0.05) in the molecular function (MF) category are shown, together with their associated genes and BH adjust *p* values. The four terms are chemokine activity (GO:0008009), cytokine activity (GO:0005125), receptor ligand activity (GO:0048018), and signaling receptor activator activity (GO:0030546).