



Figure S8. Sex-interacting allele-specific expression QTL (aseQTL) for NOD2

We used a binomial generalized linear mixed model (EAGLE method from Knowles et al., manuscript in preparation) to test for an association between allelic imbalance and sex.). **A.** We observed a significant aseQTL with genotype-sex interactions for the regulatory variant at rs4785448 and *NOD2* (P -value = 2.5×10^{-3}). In this example, the allelic imbalance is measured as $|a/n - 0.5|$, where a is the alternative allele read count and n is the reference allele count for heterozygotes at rs5743291. **B.** We also observe a marginally significant aseQTL with genotype-sex interactions for the regulatory variant at rs9846315 and *DNAH1* (P -value = 1.0×10^{-1}). In this example, allelic imbalance was measured for heterozygotes at rs12163565.