

Supplementary Figure 1: Variable importance (VI) scores for the top 100 predictors for the Random Forests analysis. Gender, *HLA-SE* status, and multipoint identity-by-descent probabilities for 379 microsatellite markers, were used to predict *PTPN22* 1858T concordance in 292 affected sibling pairs. There is a clear distinction between the VI scores for the five top-ranking predictors compared to the remaining predictors.

