

Figure S4. Likelihood ratios (LR; green line at median) showing the performance range of autosomal STRs (aSTR) and identity SNPs (iSNPs). LRs were calculated for NIST reference material 2391c (components A-C) and ancient DNA samples FA10026B01A, FA10030T01A and FA10058T01B. Allele frequencies for 27 aSTRs and 49 iSNPs were taken from SPSmart v5.1.1. (*Amigo et al.*, 2008; *Amigo et al.*, 2009). Only a partial fraction of the entire 94 iSNPs that were included in the validated SNPforID 52-plex panel (*Sanchez et al.*, 2006) was selected for LR calculation. Allele frequencies were selected according to the manufacturer's provided information of geographic origin of the respective DNA sample (2391cA: European; 2391cB: American; 2391cC: Oceania). Allele frequencies for ancient DNA samples were taken from SPSmart v5.1.1 (*Amigo et al.*, 2008; *Amigo et al.*, 2009; European population).

Müller P., Sell C., Hadrys T., Hedman J., Bredemeyer S., Laurent F.X., Roewer L., Achtruth S., Sidstedt S., Sijen T., Trimborn M., Weiler N., Willuweit S., Bastisch I., Parson W., and the SeqForSTR-Consortium. Inter-laboratory study on standardized MPS libraries: Evaluation of performance, concordance and sensitivity using mixtures and degraded DNA