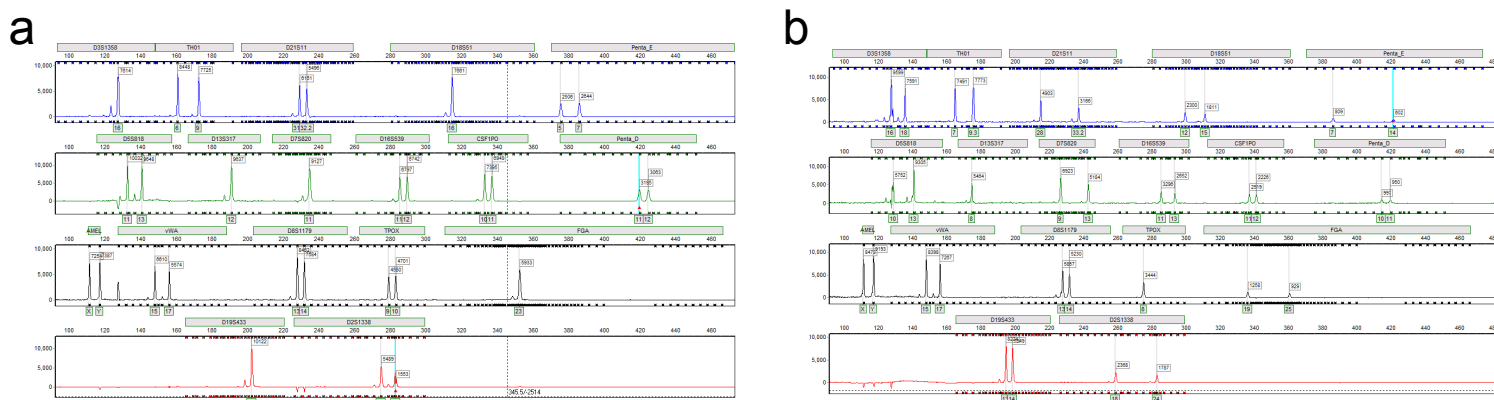


Supporting Information Fig. 1 Exemplary profiles for PCR amplification of STR fragments. (a) Exemplary profile amplified conventionally in-tube. (b) Profile demonstrating a poor amplification.



Supporting Information Fig. 2 Integrated mixing and PCR on a PeT chip. (a-b) Enzymatically-derived (extracted on-chip) DNA from two different donors (same conditions as Fig. 4a-b).