

CEU Pedigree	Pedigree 1		Pedigree 2		Pedigree 3
Genome for surname recovery	Paternal grandfather	Maternal grandfather	Paternal grandfather	Maternal grandfather	Father
Y-STR source	Illumina WGS	Illumina WGS	Illumina WGS / Published Y-STR profiles	Illumina WGS / Published Y-STR profiles	Illumina WGS
Surname freq. in US	$\sim 10^{-6}$	$\sim 10^{-4}$	$\sim 10^{-4}$	$\sim 10^{-3}$	$\sim 10^{-6}$
Meioses between target to source	3	5	5	7	2
Relationship between target and source	Nephew	First cousin once removed	Great-great nephew	Second cousin once removed	Grandchild
Supporting evidence	State of residency, pedigree structure, age, and maiden name are the same		State of residency, pedigree structure, age, and maiden name are the same		State of residency, pedigree structure are the same (ages are not given)
P(random match)*	$< 5 \times 10^{-9}$		$< 5 \times 10^{-6}$		$< 10^{-5}$