

Table S6. Genetic evidence for paternal relationships.

Offspring ¹	Mother	Father	CERVUS Parentage Confidence Level ²	KINSHIP Relatedness (R) (Father-Offspring) ³	KINSHIP Parent-Offspring ⁴
Ch-088	Ch-086	<i>Ch-081</i>	95%	0.36	*
<i>Ch-118</i>	Ch-089	<i>Ch-020</i>	95%	0.40	*
Ch-101	Ch-099	<i>Ch-085</i>	95%	0.61	*
Ch-071	Ch-099	<i>[Ch-085]</i> ^{5,6}	[95%]	0.52	*
Ch-091	Ch-099	<i>Ch-085</i>	95%	0.74	***
Ch-093	Ch-024	<i>Evered</i>	80%	0.24	*
<i>Ch-110</i>	Ch-093	<i>Ch-081</i>	NS ⁷	0.06	*
<i>Ch-100</i>	Ch-064	<i>[Ch-085]</i> ^{5,8}	[most likely]	0.39	*

¹The most recent community of residence of the Offspring, Mother, and Father chimpanzee is coded by color (Kalande, orange; Kasekela, brown; Mitumba, blue). Females are in bold while males are in non-bold italics.

²CERVUS Parentage Confidence Level, the relaxed confidence level from CERVUS (80%) and the strict confidence level (95%); most likely, the individual is the strongest candidate parent but did not fit the confidence level criteria; NS, not significant.

³KINSHIP Relatedness (R) (Father-Offspring), dyadic relatedness value for the Father and Offspring from KINSHIP. Values should be roughly 0.5 for parent-offspring; however, values can vary considerably when examining small numbers of genetic regions.

⁴KINSHIP Parent-Offspring, significance from KINSHIP for the relationship between father and offspring; asterisks indicate p-value: *** P < 0.001; * P < 0.05.

⁵There were no microsatellite allelic mismatches for the offspring/mother/father triad unless enclosed in brackets. In those cases, the confidence value, also in brackets, only applies when the mother is not included as the mother in CERVUS paternity analyses.

⁶When Ch-099 is included as the mother of Ch-071, no male lacks mismatches with the genotypes of Ch-099 and Ch-071.

⁷When Ch-093 was included as the mother of Ch-110, Ch-085 scored as the "most likely" father, but had one mismatch with the proposed mother-offspring pair. Ch-081 was the only male that lacked mismatches with the mother-offspring pair.

⁸When Ch-064 is included as the mother of Ch-100, no male lacks mismatches with the genotypes of Ch-064 and Ch-100.