The American Journal of Human Genetics Volume 86

Supplemental Data

About the X-to-Y Gene Conversion Rate

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Table S1: List of the MSY polymorphisms identified in the present study

SNP	Y-position[a]	Mutation	ChrX[b]	Haplogroup
V138	7095980	G to A	G	E-M215*
V139.1	7096454	G to A	A	A-M14
V139.2	7096454	G to T	A	F-M89*
V140	7096456	G to T	G	F-M89*
V141	7096457	A to T	T	A-M14
V142	7096610	T to G	T	O-M50
V143	7096672	T to C	C	J-M67
V144	7096829	C to T	C/T	F-M89*
V145	7097024	T to G	G	A-M13

[a]Position according to the February 2009 human Y chromosome reference sequence (GRCh37).
[b]Gametologous base on the X chromosome.

Table S2: Minimum and maximum length of the gene conversion (GC) tracts identified in the *HSA* hotspot of the *PRKY* region

SNPs involved in GC	Haplogroup	Length (bp)	
		min	max
V139.1 and V141	A-M14	4	138
V145	A-M13	1	150
V144	F-M89*	1	68
Total bp converted[a]		6	356
Total bp converted[b]		5	288

[a]Considering three gene conversion events. For a 2,348 bp sequence (L) and a time of 52,000 generations (t), this resulted in a minimum and maximum conversion rate *per* base *per* generation of 4.9×10^{-8} to 2.9×10^{-6}, respectively.

[b]Considering two gene conversion events (A-M14; A-M13, see text). For a 2,348 bp sequence (L) and a time of 52,000 generations (t), this resulted in a minimum and maximum conversion rate *per* base *per* generation of 4.1×10^{-8} to 2.4×10^{-6}, respectively.