

SHORT COMMUNICATION

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The distribution of D1S80 (pMCT118) alleles in an Austrian population sample – Description of two new alleles

Key words DNA polymorphisms · Population study · Polymerase chain reaction (PCR) · D1S80 · Forensic DNA typing

The allele frequencies for the D1S80 locus [1, 2] have been studied in 104 unrelated Caucasians from Austria by polyacrylamide gel electrophoresis followed by silver staining [3]. The results (Table 1) show a distribution in accordance with the Hardy-Weinberg equilibrium and 2 alleles which have not yet been found (Fig. 1). The number of repeats is estimated to be between 47 and 49.

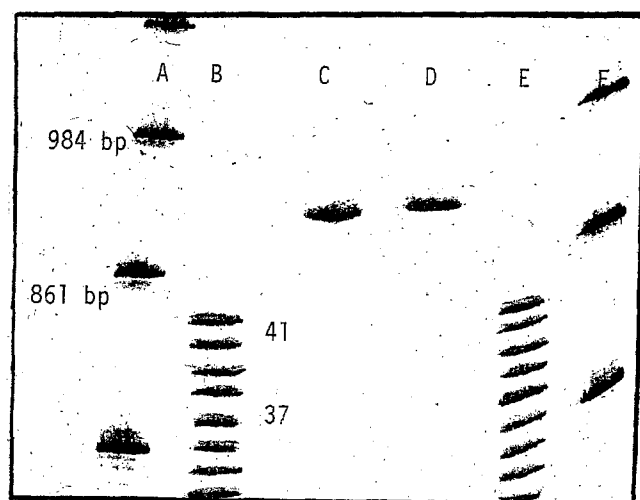


Fig. 1 Pherogramm of the two large alleles found in this study (lane C and D). Lane B and F: Upper part of the allelic ladder; alleles 37 and 41 are marked. Lane A and F: 123 bp ladder

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Table 1 Phenotype frequencies for pMCT 118

	Genotype	Observed	Frequency
18	18	9	0.087
18	21	1	0.010
18	22	2	0.019
18	22 M	1	0.010
18	24	16	0.154
18	25	3	0.029
18	28	3	0.029
18	30	2	0.019
18	31	8	0.077
18	48 ?	1	0.010
18	49 ?	1	0.010
19	24	1	0.010
19 M	34	1	0.010
20	31	2	0.019
20 M	24	2	0.019
20 M	25	2	0.019
21	24	3	0.029
22	24	1	0.010
22	25	1	0.010
22 M	24	1	0.010
23	24	1	0.010
23 M	24	1	0.010
24	24	14	0.135
24	25	4	0.038
24	26 M	1	0.010
24	27 M	1	0.010
24	28	3	0.029
24	28	1	0.010
24	29	1	0.010
24	29	1	0.010
24	31	3	0.029
24	31	1	0.010
24	32	1	0.010
24	36	1	0.010
24	37	1	0.010
24	37	2	0.019
25	29	1	0.010
25 M	28	3	0.029
28	31	1	0.010
29	31	1	0.010
Total	39	104	

References

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