

AmpFLSTR Profiles

Blue D3S 1358, vWA, FGA

Green Amelogenin, D8S1179, D21S11, D18S51

Yellow D5S818, D13S317, D7S820



Allele Frequencies

Allele frequencies are given for African-American, Caucasian-American and Hispanic-American populations

Allele	CSF1PO ^{b,c}			
	Caucasian-American	African-American	Hispanic-American	Asian-Americans
5	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d
6	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d
7	0.007 ^d	0.056	0.014 ^d	0.016 ^d
8	0.007 ^d	0.069	0.014 ^d	0.016 ^d
9	0.024	0.042	0.033 ^d	0.047
10	0.293	0.247	0.249	0.242
11	0.291	0.249	0.301	0.261
11.1			0.014 ^d	
12	0.300	0.281	0.331	0.410
13	0.076	0.049	0.055	0.019
14	0.007	0.007	0.014 ^d	0.016
15	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	694	708	362	322
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Forensic Statistics

Matching Probability
(general)

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D16S539^{b,c}

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
5	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d
8	0.017	0.036	0.019	0.016
9	0.107	0.215	0.171	0.245
10	0.054	0.107	0.152	0.143
11	0.299	0.318	0.202	0.261
12	0.32	0.187	0.268	0.199
13	0.18	0.115	0.16	0.112
13.3	0.007 ^d	0.007 ^d		
14	0.022	0.021	0.025	0.022
15	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	690	702	362	322
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D7S820^{b,c}

Allele	Caucasian- American	African- American	Hispanic- American	Asian- American
	Frequency			
6	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d
7	0.022	0.016	0.014 ^d	0.016 ^d
8	0.178	0.173	0.152	0.143
9	0.18	0.104	0.094	0.068
9,1				0.016 ^d
10	0.236	0.351	0.26	0.177
10,3			0.014 ^d	0.016 ^d
11	0.19	0.23	0.26	0.335
12	0.142	0.1	0.199	0.236
13	0.032	0.02	0.017	0.025
14	0.017	0.007 ^d	0.014 ^d	0.016 ^d
>14	0.007 ^d			

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted 690 700 362 322

Forensic Statistics

Matching Probability
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Matching Probability
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D13S317^{b,c}

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
6			0.014 ^d	
7	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d
8	0.106	0.031	0.108	0.193
9	0.064	0.024	0.169	0.106
10	0.051	0.02	0.055	0.143
11	0.333	0.274	0.218	0.311
12	0.296	0.434	0.221	0.202
13	0.1	0.162	0.155	0.037
14	0.048	0.054	0.075	0.016 ^d
15	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted 690 702 362 322

Forensic Statistics

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Matching Probability
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D5S818^{b,c}

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
7	0.007 ^d	0.007 ^d	0.05	0.016 ^d
8	0.007 ^d	0.057	0.014	0.016 ^d
9	0.041	0.017	0.075	0.047
10	0.062	0.074	0.058	0.199
11	0.325	0.244	0.348	0.282
12	0.393	0.358	0.287	0.280
13	0.162	0.232	0.16	0.168
14	0.01	0.013	0.014 ^d	0.016 ^d
15	0.007 ^d	0.007 ^d	0.014 ^d	0.016 ^d
16	0.007 ^d	0.007 ^d		

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted

690	702	362	322
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D3S1358^a

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
11			0.012 ^d	
<12	0.007 ^d	0.007 ^d		
12	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
13	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
14	0.139	0.088	0.086	0.04
15	0.254	0.302	0.381	0.270
16	0.229	0.348	0.286	0.323
16.2	0.007 ^d	0.007 ^d	0.012 ^d	
17	0.206	0.181	0.152	0.261
18	0.152	0.060	0.076	0.106
19	0.012	0.010	0.012 ^d	0.016 ^d
20	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
21	0.007 ^d	0.007 ^d	0.012 ^d	

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted

678	696	420	322
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Forensic Statistics

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Matching Probability (siblings)

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D8S1179^a

Allele	Caucasian- American	African- American	Hispanic- American	Asian- American
	Frequency			
7	0.007 ^d	0.007 ^d	0.012 ^d	
8	0.003	0.007 ^d	0.012 ^d	0.016 ^d
9	0.012	0.007 ^d	0.012 ^d	0.016 ^d
9.2		0.007 ^d		0.016 ^d
10	0.106	0.024	0.076	0.158
10.2		0.007 ^d		0.016 ^d
11	0.088	0.046	0.052	0.078
11.3	0.007 ^d			
12	0.143	0.111	0.126	0.053
13	0.308	0.207	0.277	0.285
14	0.201	0.316	0.306	0.199
15	0.088	0.21	0.133	0.137
16	0.032	0.062	0.024	0.056
17	0.007 ^d	0.013	0.012 ^d	0.016
18	0.007 ^d	0.007 ^d	0.012 ^d	0.016
19		0.007 ^d		
20		0.007 ^d		
21		0.007 ^d		
22		0.007 ^d		

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	678	696	422	322
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D18S51 ^a				
Allele	Caucasian-	African-	Hispanic-	Asian-
	American	American	American	American
	Frequency			
9		0.007 ^d	0.012 ^d	
10	0.007	0.007 ^d	0.012 ^d	0.016 ^d
10.2	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
11	0.016	0.013	0.012 ^d	0.016 ^d
12	0.156	0.058	0.107	0.093
13	0.133	0.05	0.100	0.127
13.2	0.007 ^d	0.009		0.016 ^d
14	0.139	0.079	0.152	0.146
14.2		0.007		0.016 ^d
15	0.168	0.151	0.124	0.230
15.2		0.007 ^d		
<u>16</u>	0.125	0.179	0.117	0.081
17	0.105	0.157	0.233	0.168
17.2		0.007 ^d		
18	0.068	0.111	0.067	0.047
18.2				0.016 ^d
<u>19</u>	0.044	0.086	0.038	0.031
20	0.019	0.042	0.017	0.043
20.2		0.007 ^d		
21	0.007 ^d	0.023	0.017	0.016
22	0.007	0.01	0.012 ^d	0.016 ^d
22.2		0.007 ^d		
23	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
23.2		0.007 ^d		
24		0.007 ^d	0.012 ^d	0.016 ^d
25			0.012 ^d	

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted 678 694 420 322

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D21S11^a

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
24.2	0.007 ^d	0.007 ^d		0.016 ^d
24.3		0.007 ^d		
25	0.007 ^d			
25.2	0.007 ^d	0.007 ^d		
26	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
27	0.041	0.036	0.017	0.016 ^d
<u>28</u>	0.168	0.244	0.092	0.090
28.2		0.007 ^d	0.012 ^d	
<u>29</u>	0.206	0.217	0.230	0.276
29.2	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
30	0.261	0.175	0.277	0.202
30.2	0.035	0.022	0.026	0.016
31	0.065	0.079	0.062	0.090
31.2	0.083	0.053	0.090	0.078

32	0.01	0.009	0.012 ^d	0.050
32.1	0.007 ^d			
32.2	0.093	0.06	0.140	0.099
33	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
33.1		0.007 ^d		
33.2	0.029	0.037	0.043	0.065
34	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
34.1				0.016 ^d
34.2	0.007 ^d	0.007 ^d	0.012 ^d	0.022
35	0.007 ^d	0.039	0.012 ^d	0.016 ^d
35.2	0.007 ^d			0.016 ^d
36		0.009	0.012 ^d	0.016 ^d
37		0.007 ^d	0.012 ^d	
38		0.007 ^d		

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	678	696	422	322
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FGA^{a,c}

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
..				

14				0.016 ^d
16	0.007 ^d			0.016 ^d
<17		0.007 ^d		
17	0.007 ^d	0.007 ^d		0.016 ^d
17.2			0.012 ^d	
18	0.012	0.007	0.012	0.006
18.2		0.014		
19	0.06	0.069	0.091	0.093
19.2	0.007 ^d	0.007 ^d	0.012 ^d	
19.3		0.007 ^d		
20	0.153	0.06	0.055	0.062
20.2	0.007 ^d	0.007 ^d		0.016 ^d
21	0.176	0.109	0.137	0.087
21.2	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
22	0.214	0.198	0.135	0.161
22.2	0.007 ^d	0.007 ^d	0.014	0.016 ^d
23	0.15	0.178	0.115	0.158
23.2	0.007 ^d		0.012 ^d	0.016 ^d
24	0.128	0.151	0.190	0.149
24.2	0.007 ^d		0.012 ^d	0.016 ^d
25	0.068	0.083	0.111	0.140
25.2				0.016 ^d
26	0.024	0.05	0.106	0.109
26.1			0.012 ^d	
27	0.007 ^d	0.034	0.022	0.016
28	0.007 ^d	0.016	0.012 ^d	0.016 ^d
29		0.007	0.012 ^d	
30		0.007 ^d	0.012 ^d	0.016 ^d
30.2		0.007 ^d		0.016 ^d
31	0.007 ^d	0.007 ^d		
31.2		0.007 ^d		0.016 ^d
32		0.007 ^d		
34	0.007 ^d			
42.2		0.007 ^d		
43.2		0.007 ^d		0.016 ^d

44.2	0.007 ^d		
45.2		0.012 ^d	
46.2	0.007 ^d	0.012 ^d	
>46.2	0.007 ^d		0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	678	696	416	322
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Forensic Statistics

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TH01^c

Allele	Frequency			
	Caucasian-American ^a	African-American ^a	Hispanic-American ^a	Asian-American ^b
4			0.012 ^d	
5	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
6	0.205	0.136	0.290	0.134
7	0.2	0.411	0.288	0.323
8	0.11	0.236	0.107	0.090
8.3	0.007 ^d	0.007 ^d		
9	0.14	0.136	0.119	0.270
9.3	0.33	0.073	0.174	0.140
10	0.013	0.007	0.017	0.043
11	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	694	708	420	322
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TPOX^c

Allele	Frequency			
	Caucasian-American ^a	African-American ^a	Hispanic-American ^a	Asian-American ^b
6	0.007 ^d	0.065	0.012 ^d	0.016 ^d

7	0.007 ^d	0.011	0.012 ^d	0.016 ^d
8	0.493	0.335	0.562	0.016 ^d
9	0.108	0.256	0.052	0.047
10	0.072	0.069	0.055	0.242
11	0.277	0.246	0.245	0.261
12	0.046	0.018	0.079	0.410
13	0.007 ^d	0.007 ^d	0.012 ^d	0.019
14				0.016
15				0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	694	708	420	322
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vWA^{b,c}

Allele	Frequency			
	Caucasian-American	African-American	Hispanic-American	Asian-American
11	0.007 ^d	0.007	0.012 ^d	0.016 ^d
12	0.007 ^d	0.007 ^d	0.012 ^d	0.016 ^d
13	0.007 ^d	0.02	0.012 ^d	0.016 ^d
14	0.105	0.066	0.069	0.118
15	0.099	0.219	0.107	0.124

16	0.211	0.271	0.302	0.208
17	0.283	0.194	0.267	0.255
18	0.195	0.115	0.164	0.202
19	0.092	0.078	0.071	0.078
20	0.015	0.02	0.017	0.016 ^d
21	0.007 ^d	0.007	0.012 ^d	0.016 ^d

Allele Frequencies

Homozygotes

Heterozygotes

Total Alleles Counted	688	702	420	322
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Forensic Statistics

Matching Probability
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