

Deconvolution Report

DETAILS

STRMIX VERSION: STRmix V2.5.13
 USER: admin
 RUN DATE: 16 Jan 2018 14:31:40
 TOTAL RUN TIME: 5 mins, 2 secs

REPORT RUN: 16 Jan 2018 14:38:28

RUN PARAMETERS

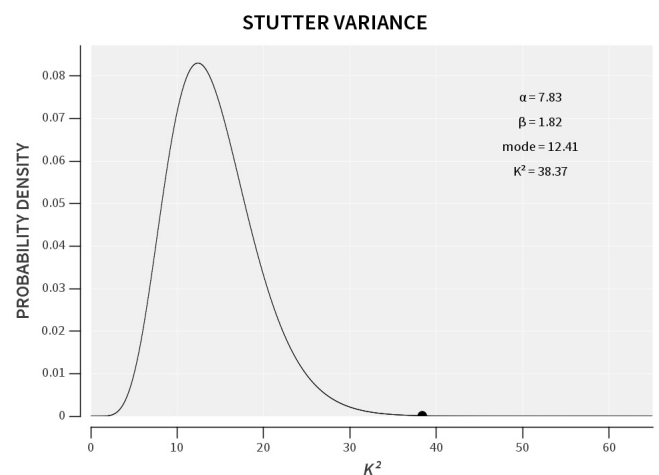
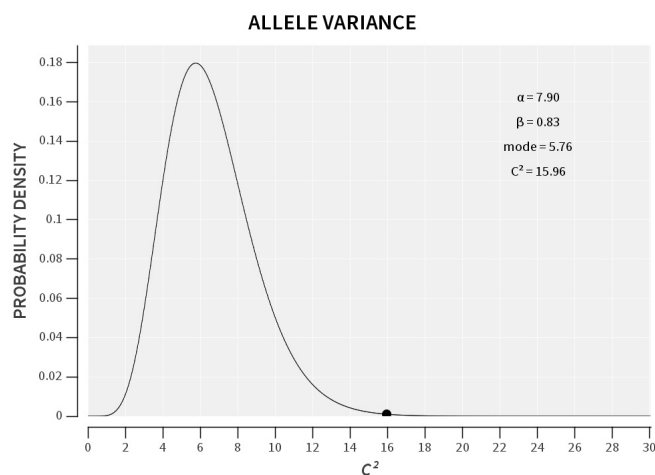
CONTRIBUTORS: 3
 PROFILING KIT: Identifiler_3500
 SAMPLE FILE: 2017B1134-017_B06.hid_EV.csv
 KNOWN CONTRIBUTORS UNDER HP: 2017B1134-014_G05.hid_REF.csv
 KNOWN CONTRIBUTORS UNDER HD: 2017B1134-014_G05.hid_REF.csv

CASE NUMBER: 1134
 SAMPLE NAME: GM
 COMMENTS:
 SEED: 322639

SUMMARY OF CONTRIBUTORS

CONTRIBUTORS	1	2	3
Template (rfu)	7496	4721	285
Mixture Proportion	60%	38%	2%
Degradation starts at 112bp (rfu/bp)	14.274	8.235	0.385

VARIANCE CHARTS



GENOTYPE PROBABILITY DISTRIBUTION

LOCUS	CONTRIBUTORS			WEIGHT (HIGHLIGHT ≥ 0.99)
	1 (60%)	2 (38%)	3 (2%)	
D8S1179	12, 15	11, 16	10, 13	3.66011E-1
	12, 15	11, 16	13, 13	2.82831E-1
	12, 15	11, 16	12, 13	9.34134E-2
	12, 15	11, 16	13, 15	8.01689E-2
	12, 15	11, 16	13, 16	7.53412E-2
	12, 15	11, 16	11, 13	7.19702E-2
	12, 15	11, 16	13, 14	2.94401E-2
	12, 15	11, 16	Q, 13	8.24281E-4
D21S11	29, 29	29, 30	28, 2, 32, 2	9.97873E-1
	29, 29	30, 30	28, 2, 32, 2	1.39151E-3
	29, 29	29, 30	32, 2, 32, 2	2.79206E-4
	29, 29	29, 30	31, 32, 2	1.72950E-4
	29, 29	29, 30	29, 32, 2	8.56836E-5
	29, 29	29, 30	28, 32, 2	8.02577E-5
	29, 29	29, 30	30, 32, 2	5.24501E-5
	29, 29	30, 32, 2	28, 2, 29	3.14249E-5
	29, 29	30, 32, 2	28, 2, 31	1.44690E-5
	29, 29	30, 32, 2	28, 28, 2	9.72136E-6
	29, 29	30, 32, 2	28, 2, 30	9.49528E-6
	8, 11	11, 12	7, 9	3.87187E-1
D7S820	8, 11	11, 12	9, 9	2.51172E-1
	8, 11	11, 12	9, 11	1.22474E-1
	8, 11	11, 12	9, 12	9.02906E-2
	8, 11	11, 12	9, 10	7.03447E-2
	8, 11	11, 12	8, 9	6.49018E-2
	8, 11	11, 12	Q, 9	1.30370E-2
	8, 11	11, 11	9, 12	5.71752E-4
	8, 11	12, 12	8, 9	1.37908E-5
	8, 11	12, 12	7, 9	4.06941E-6
	8, 11	12, 12	9, 9	3.61725E-6
CSF1PO	10, 12	9, 11	9, 9	2.10221E-1
	10, 12	9, 11	9, 11	1.51398E-1
	10, 12	9, 11	9, 10	1.14249E-1
	10, 12	9, 11	9, 12	1.11879E-1
	10, 12	9, 11	11, 11	8.53155E-2
	10, 12	9, 11	10, 11	7.24372E-2
	10, 12	9, 11	11, 12	6.79729E-2
	10, 12	9, 11	10, 12	5.39990E-2
	10, 12	9, 11	10, 10	4.78790E-2
	10, 12	9, 11	12, 12	4.78374E-2
	10, 12	9, 11	Q, 9	6.61120E-3
	10, 12	9, 11	8, 9	6.04058E-3
	10, 12	9, 11	Q, 11	5.11976E-3
	10, 12	9, 11	8, 11	4.05765E-3
	10, 12	9, 11	Q, 10	4.05019E-3
	10, 12	9, 11	Q, 12	3.47640E-3
	10, 12	9, 11	8, 12	2.99847E-3
	10, 12	9, 11	8, 10	2.81219E-3
	10, 12	9, 11	Q, Q	6.75747E-4
	10, 12	9, 11	Q, 8	5.70169E-4
	10, 12	9, 9	11, 11	1.44690E-4
	10, 12	9, 11	8, 8	9.56310E-5
	10, 12	9, 9	11, 12	5.67456E-5
	10, 12	9, 9	10, 11	4.22766E-5
	10, 12	9, 9	9, 11	2.78076E-5
	10, 12	9, 9	8, 11	2.69033E-5
	10, 12	9, 9	Q, 11	5.42587E-6
D3S1358	14, 17	17, 17	15, 17	1.98211E-1
	14, 17	17, 17	15, 15	1.68418E-1
	14, 17	17, 17	14, 15	1.65763E-1
	14, 17	17, 17	15, 18	1.13164E-1
	14, 17	17, 17	15, 16	1.02187E-1
	14, 17	17, 17	16, 17	4.44239E-2
	14, 17	17, 17	14, 16	3.77144E-2
	14, 17	17, 17	14, 17	3.07127E-2
	14, 17	17, 17	17, 17	2.96967E-2
	14, 17	17, 17	16, 18	2.95296E-2
	14, 17	17, 17	14, 14	2.02934E-2
	14, 17	17, 17	17, 18	1.89668E-2

LOCUS	CONTRIBUTORS			WEIGHT (HIGHLIGHT ≥ 0.99)
	1 (60%)	2 (38%)	3 (2%)	
	14, 17	17, 17	14, 18	1.65767E-2
	14, 17	17, 17	16, 16	7.65840E-3
	14, 17	17, 17	13, 15	5.04742E-3
	14, 17	17, 17	Q, 15	2.21308E-3
	14, 17	17, 17	18, 18	2.02204E-3
	14, 17	17, 17	13, 16	1.74555E-3
	14, 17	17, 17	13, 17	1.17877E-3
	14, 17	17, 17	Q, 16	1.11434E-3
	14, 17	17, 17	13, 18	1.04697E-3
	14, 17	17, 17	13, 14	8.81252E-4
	14, 17	17, 17	Q, 17	4.76799E-4
	14, 17	17, 17	Q, 14	4.55547E-4
	14, 17	17, 17	Q, 18	4.16436E-4
	14, 17	17, 17	Q, Q	3.52682E-5
	14, 17	17, 17	Q, 13	3.23292E-5
	14, 17	17, 17	13, 13	1.83123E-5
TH01	8, 9	6, 9	7, 7	2.86644E-1
	8, 9	6, 9	6, 7	2.61522E-1
	8, 9	6, 9	7, 9	2.54254E-1
	8, 9	6, 9	7, 8	1.60830E-1
	8, 9	6, 9	6, 9	7.83361E-3
	8, 9	6, 9	9, 9	7.19946E-3
	8, 9	6, 9	6, 6	7.09320E-3
	8, 9	6, 9	6, 8	5.47878E-3
	8, 9	6, 9	8, 9	4.48675E-3
	8, 9	6, 9	8, 8	2.88159E-3
	8, 9	6, 9	Q, 7	1.63161E-3
	8, 9	6, 9	Q, 9	5.10937E-5
	8, 9	6, 9	Q, 6	4.83807E-5
	8, 9	6, 9	Q, 8	4.54417E-5
D13S317	9, 13	8, 12	10, 12	1.84976E-1
	9, 13	8, 12	8, 10	1.48503E-1
	9, 13	8, 12	9, 10	1.23728E-1
	9, 13	8, 12	10, 10	1.16420E-1
	9, 13	8, 12	10, 13	1.14558E-1
	9, 13	8, 12	10, 11	4.18242E-2
	9, 13	8, 12	12, 12	3.38046E-2
	9, 13	8, 12	8, 12	3.04543E-2
	9, 13	8, 12	9, 12	2.59958E-2
	9, 13	8, 12	12, 13	2.38065E-2
	9, 13	8, 12	8, 9	2.06699E-2
	9, 13	8, 12	8, 8	2.00873E-2
	9, 13	8, 12	8, 13	1.85386E-2
	9, 13	8, 12	9, 13	1.72843E-2
	9, 13	8, 12	9, 9	1.51936E-2
	9, 13	8, 12	13, 13	1.43698E-2
	9, 13	8, 12	11, 12	1.06845E-2
	9, 13	8, 12	Q, 10	9.66258E-3
	9, 13	8, 12	8, 11	8.31221E-3
	9, 13	8, 12	9, 11	6.96117E-3
	9, 13	8, 12	11, 13	6.15452E-3
	9, 13	8, 12	Q, 12	1.94812E-3
	9, 13	8, 12	Q, 8	1.59001E-3
	9, 13	8, 12	Q, 9	1.57780E-3
	9, 13	8, 12	Q, 13	1.27531E-3
	9, 13	8, 12	Q, 11	8.54575E-4
	9, 13	8, 12	11, 11	5.32188E-4
	9, 13	8, 12	Q, Q	2.32860E-4
D16S539	12, 13	10, 10	9, 9	7.41711E-1
	12, 13	10, 10	9, 12	1.20193E-1
	12, 13	10, 10	9, 13	6.61030E-2
	12, 13	10, 10	9, 10	5.57271E-2
	12, 13	10, 10	9, 11	1.59711E-2
	12, 13	10, 10	Q, 9	2.94580E-4
D2S1338	23, 24	17, 18	23, 23	1.91701E-1
	23, 24	17, 18	18, 23	1.30841E-1
	23, 24	17, 18	23, 25	9.80673E-2
	23, 24	17, 18	23, 24	8.95360E-2
	23, 24	17, 18	18, 18	7.74358E-2
	23, 24	17, 18	18, 25	6.08243E-2
	23, 24	17, 18	18, 24	5.55666E-2

LOCUS	CONTRIBUTORS			WEIGHT (HIGHLIGHT ≥ 0.99)
	1 (60%)	2 (38%)	3 (2%)	
	23, 24	17, 18	17, 23	5.50735E-2
	23, 24	17, 18	24, 25	4.57966E-2
	23, 24	17, 18	17, 18	3.69253E-2
	23, 24	17, 18	24, 24	3.18942E-2
	23, 24	17, 18	17, 25	3.03569E-2
	23, 24	17, 18	17, 24	2.24498E-2
	23, 24	17, 18	17, 17	1.58983E-2
	23, 24	17, 18	22, 23	8.82315E-3
	23, 24	17, 18	22, 25	7.54513E-3
	23, 24	17, 18	18, 22	6.64896E-3
	23, 24	17, 18	25, 25	5.25270E-3
	23, 24	17, 18	22, 24	4.81094E-3
	23, 24	17, 18	Q, 25	3.64167E-3
	23, 24	17, 18	Q, 23	3.10224E-3
	23, 24	17, 18	17, 22	3.07105E-3
	23, 24	17, 18	Q, 18	2.88295E-3
	23, 24	17, 18	Q, 24	1.93952E-3
	23, 24	17, 18	16, 23	1.61714E-3
	23, 24	17, 18	16, 25	1.41208E-3
	23, 24	17, 18	Q, 17	1.32663E-3
	23, 24	17, 18	16, 18	1.20115E-3
	23, 24	17, 18	16, 24	7.53970E-4
	23, 24	17, 18	16, 17	6.19906E-4
	23, 24	17, 18	22, 22	5.64969E-4
	23, 24	17, 18	Q, 22	4.49443E-4
	23, 24	17, 23	18, 23	3.74159E-4
	23, 24	17, 18	Q, Q	3.40926E-4
	23, 24	17, 23	18, 24	3.26909E-4
	23, 24	17, 18	16, 22	2.79433E-4
	23, 24	17, 23	18, 25	1.69785E-4
	23, 24	17, 23	18, 18	1.62098E-4
	23, 24	17, 18	Q, 16	1.24795E-4
	23, 24	17, 23	17, 18	1.18917E-4
	23, 24	17, 23	Q, 18	3.70768E-5
	23, 24	17, 18	16, 16	2.17035E-5
	23, 24	17, 23	16, 18	8.81705E-6
	23, 24	18, 23	17, 17	4.06941E-6
	23, 24	17, 23	18, 22	1.58255E-6
D19S433	13, 14	14, 15.2	13.2, 14	4.06779E-1
	13, 14	14, 15.2	13, 13.2	3.06813E-1
	13, 14	14, 15.2	13.2, 15.2	2.50503E-1
	13, 14	14, 15.2	Q, 13.2	1.15200E-2
	13, 14	14, 15.2	12, 13.2	8.20686E-3
	13, 14	14, 15.2	13.2, 14.2	7.48206E-3
	13, 14	14, 15.2	13.2, 15	5.26649E-3
	13, 14	14, 15.2	14, 14	7.93534E-4
	13, 14	14, 15.2	13.2, 13.2	7.80874E-4
	13, 14	14, 15.2	13, 14	4.61199E-4
	13, 14	14, 15.2	14, 15.2	4.19601E-4
	13, 14	14, 15.2	13, 15.2	3.68281E-4
	13, 14	14, 15.2	13, 13	2.89606E-4
	13, 14	14, 15.2	15.2, 15.2	2.84858E-4
	13, 14	14, 15.2	Q, 14	1.55994E-5
	13, 14	14, 15.2	15, 15.2	1.19821E-5
	13, 14	14, 15.2	13, 15	3.61725E-6
vWA	16, 17	17, 17	14, 17	3.71547E-1
	16, 17	17, 17	14, 14	3.15415E-1
	16, 17	17, 17	14, 16	2.52013E-1
	16, 17	17, 17	14, 15	4.63928E-2
	16, 17	17, 17	Q, 14	1.19903E-2
	16, 17	17, 17	14, 18	2.64127E-3
TPOX	8, 11	8, 8	10, 10	3.37753E-1
	8, 11	8, 8	9, 10	2.18622E-1
	8, 11	8, 8	10, 12	1.71599E-1
	8, 11	8, 8	10, 11	1.04135E-1
	8, 11	8, 11	10, 10	4.77685E-2
	8, 11	8, 11	9, 10	3.99211E-2
	8, 11	8, 8	8, 10	3.13720E-2
	8, 11	8, 11	10, 12	2.31940E-2
	8, 11	8, 11	8, 10	1.37238E-2
	8, 11	8, 8	7, 10	4.51388E-3

LOCUS	CONTRIBUTORS			WEIGHT (HIGHLIGHT ≥ 0.99)
	1 (60%)	2 (38%)	3 (2%)	
	8, 11	8, 8	Q, 10	3.19471E-3
	8, 11	8, 11	10, 11	3.08393E-3
	8, 11	8, 11	7, 10	7.14407E-4
	8, 11	8, 11	Q, 10	3.82524E-4
	8, 11	8, 8	9, 12	1.24343E-5
	8, 11	8, 11	8, 9	9.49528E-6
	8, 11	8, 8	9, 9	6.78234E-7
D18S51	14, 17	16, 21	15, 19	9.98065E-1
	14, 17	16, 21	15, 15	4.84485E-4
	14, 17	16, 21	14, 15	3.98350E-4
	14, 17	16, 21	15, 21	3.36856E-4
	14, 17	16, 21	15, 16	3.30526E-4
	14, 17	16, 21	15, 17	2.01436E-4
	14, 17	16, 21	13, 15	1.07161E-4
	14, 17	16, 21	15, 20	5.44848E-5
	14, 17	16, 21	Q, 15	2.19296E-5
D5S818	11, 12	11, 12	7, 9	9.63049E-1
	11, 12	11, 12	9, 10	3.60226E-2
	11, 12	11, 11	7, 9	5.70169E-4
	11, 12	11, 12	9, 13	2.21557E-4
	11, 12	11, 12	9, 11	4.58939E-5
	11, 12	12, 12	7, 9	2.82598E-5
	11, 12	11, 12	9, 9	2.48686E-5
	11, 12	11, 12	9, 12	1.55994E-5
	11, 12	11, 12	Q, 9	1.49212E-5
	11, 12	11, 11	9, 10	7.46058E-6
FGA	22, 24	18, 22	23, 27	9.79733E-1
	22, 24	18, 23	26, 27	1.36893E-2
	22, 24	18, 22	23, 26	3.06585E-3
	22, 24	18, 22	23, 23	7.92630E-4
	22, 24	18, 22	23, 24	7.26163E-4
	22, 24	18, 22	22, 23	6.60374E-4
	22, 24	18, 22	18, 23	5.48692E-4
	22, 24	18, 22	Q, 23	4.56000E-4
	22, 24	18, 22	21, 23	3.06562E-4
	22, 24	18, 24	23, 27	2.14774E-5

COMPONENT INTERPRETATION

CONTRIBUTOR 1 (60%)

Assumed contributor

LOCUS	GENOTYPE	WEIGHT	COMPONENT $\geq 99\%$
D8S1179	12, 15	100.00%	12, 15
D21S11	29, 29	100.00%	29, 29
D7S820	8, 11	100.00%	8, 11
CSF1PO	10, 12	100.00%	10, 12
D3S1358	14, 17	100.00%	14, 17
TH01	8, 9	100.00%	8, 9
D13S317	9, 13	100.00%	9, 13
D16S539	12, 13	100.00%	12, 13
D2S1338	23, 24	100.00%	23, 24
D19S433	13, 14	100.00%	13, 14
vWA	16, 17	100.00%	16, 17
TPOX	8, 11	100.00%	8, 11
D18S51	14, 17	100.00%	14, 17
D5S818	11, 12	100.00%	11, 12
FGA	22, 24	100.00%	22, 24

CONTRIBUTOR 2 (38%)

Questioned contributor

LOCUS	GENOTYPE	WEIGHT	COMPONENT $\geq 99\%$
D8S1179	11, 16	100.00%	11, 16
D21S11	29, 30	99.85%	29, 30
	30, 30	0.14%	
	30, 32.2	0.01%	
D7S820	11, 12	99.94%	11, 12
	11, 11	0.06%	
	12, 12	0.00%	
CSF1PO	9, 11	99.97%	9, 11
	9, 9	0.03%	
D3S1358	17, 17	100.00%	17, 17
TH01	6, 9	100.00%	6, 9
D13S317	8, 12	100.00%	8, 12
D16S539	10, 10	100.00%	10, 10
D2S1338	17, 18	99.88%	17, 18
	17, 23	0.12%	
	18, 23	0.00%	
D19S433	14, 15.2	100.00%	14, 15.2
vWA	17, 17	100.00%	17, 17
TPOX	8, 8	87.12%	8, F
	8, 11	12.88%	
D18S51	16, 21	100.00%	16, 21
D5S818	11, 12	99.94%	11, 12
	11, 11	0.06%	
	12, 12	0.00%	
FGA	18, 22	98.63%	18, F
	18, 23	1.37%	
	18, 24	0.00%	

CONTRIBUTOR 3 (2%)

Questioned contributor

LOCUS	GENOTYPE	WEIGHT	COMPONENT $\geq 99\%$
D8S1179	10, 13	36.60%	13, F
	13, 13	28.28%	
	12, 13	9.34%	
	13, 15	8.02%	
	13, 16	7.53%	
	11, 13	7.20%	
	13, 14	2.94%	
	Q, 13	0.08%	
D21S11	28.2, 32.2	99.93%	28.2, 32.2
	32.2, 32.2	0.03%	
	31, 32.2	0.02%	

CONTRIBUTOR 3 (2%)

Questioned contributor

LOCUS	GENOTYPE	WEIGHT	COMPONENT $\geq 99\%$
	29, 32.2	0.01%	
	28, 32.2	0.01%	
	30, 32.2	0.01%	
	28.2, 29	0.00%	
	28.2, 31	0.00%	
	28, 28.2	0.00%	
	28.2, 30	0.00%	
	7, 9	38.72%	9, F
	9, 9	25.12%	
	9, 11	12.25%	
	9, 12	9.09%	
	9, 10	7.03%	
	8, 9	6.49%	
	Q, 9	1.30%	
CSF1PO	9, 9	21.02%	F, F
	9, 11	15.14%	
	9, 10	11.42%	
	9, 12	11.19%	
	11, 11	8.55%	
	10, 11	7.25%	
	11, 12	6.80%	
	10, 12	5.40%	
	10, 10	4.79%	
	12, 12	4.78%	
	Q, 9	0.66%	
	8, 9	0.60%	
	Q, 11	0.51%	
	8, 11	0.41%	
	Q, 10	0.41%	
	Q, 12	0.35%	
	8, 12	0.30%	
	8, 10	0.28%	
	Q, Q	0.07%	
	Q, 8	0.06%	
	8, 8	0.01%	
D3S1358	15, 17	19.82%	F, F
	15, 15	16.84%	
	14, 15	16.58%	
	15, 18	11.32%	
	15, 16	10.22%	
	16, 17	4.44%	
	14, 16	3.77%	
	14, 17	3.07%	
	17, 17	2.97%	
	16, 18	2.95%	
	14, 14	2.03%	
	17, 18	1.90%	
	14, 18	1.66%	
	16, 16	0.77%	
	13, 15	0.50%	
	Q, 15	0.22%	
	18, 18	0.20%	
	13, 16	0.17%	
	13, 17	0.12%	
	Q, 16	0.11%	
	13, 18	0.10%	
	13, 14	0.09%	
	Q, 17	0.05%	
	Q, 14	0.05%	
	Q, 18	0.04%	
	Q, Q	0.00%	
	Q, 13	0.00%	
	13, 13	0.00%	
TH01	7, 7	28.66%	F, F
	6, 7	26.15%	
	7, 9	25.43%	
	7, 8	16.08%	
	6, 9	0.78%	
	9, 9	0.72%	
	6, 6	0.71%	

CONTRIBUTOR 3 (2%)

Questioned contributor

LOCUS	GENOTYPE	WEIGHT	COMPONENT ≥ 99%
	6, 8	0.55%	
	8, 9	0.45%	
	8, 8	0.29%	
	Q, 7	0.16%	
	Q, 9	0.01%	
	Q, 6	0.00%	
	Q, 8	0.00%	
D13S317	10, 12	18.50%	F, F
	8, 10	14.85%	
	9, 10	12.37%	
	10, 10	11.64%	
	10, 13	11.46%	
	10, 11	4.18%	
	12, 12	3.38%	
	8, 12	3.05%	
	9, 12	2.60%	
	12, 13	2.38%	
	8, 9	2.07%	
	8, 8	2.01%	
	8, 13	1.85%	
	9, 13	1.73%	
	9, 9	1.52%	
	13, 13	1.44%	
	11, 12	1.07%	
	Q, 10	0.97%	
	8, 11	0.83%	
	9, 11	0.70%	
	11, 13	0.62%	
	Q, 12	0.19%	
	Q, 8	0.16%	
	Q, 9	0.16%	
	Q, 13	0.13%	
	Q, 11	0.09%	
	11, 11	0.05%	
	Q, Q	0.02%	
D16S539	9, 9	74.17%	9, F
	9, 12	12.02%	
	9, 13	6.61%	
	9, 10	5.57%	
	9, 11	1.60%	
	Q, 9	0.03%	
D2S1338	23, 23	19.17%	F, F
	18, 23	13.12%	
	23, 25	9.81%	
	23, 24	8.95%	
	18, 18	7.76%	
	18, 25	6.10%	
	18, 24	5.59%	
	17, 23	5.51%	
	24, 25	4.58%	
	17, 18	3.70%	
	24, 24	3.19%	
	17, 25	3.04%	
	17, 24	2.24%	
	17, 17	1.59%	
	22, 23	0.88%	
	22, 25	0.75%	
	18, 22	0.67%	
	25, 25	0.53%	
	22, 24	0.48%	
	Q, 25	0.36%	
	Q, 23	0.31%	
	17, 22	0.31%	
	Q, 18	0.29%	
	Q, 24	0.19%	
	16, 23	0.16%	
	16, 25	0.14%	
	Q, 17	0.13%	
	16, 18	0.12%	
	16, 24	0.08%	

CONTRIBUTOR 3 (2%)

Questioned contributor

LOCUS	GENOTYPE	WEIGHT	COMPONENT ≥ 99%
	16, 17	0.06%	
	22, 22	0.06%	
	Q, 22	0.04%	
	Q, Q	0.03%	
	16, 22	0.03%	
	Q, 16	0.01%	
	16, 16	0.00%	
D19S433	13.2, 14	40.68%	13.2, F
	13, 13.2	30.68%	
	13.2, 15.2	25.05%	
	Q, 13.2	1.15%	
	12, 13.2	0.82%	
	13.2, 14.2	0.75%	
	13.2, 15	0.53%	
	14, 14	0.08%	
	13.2, 13.2	0.08%	
	13, 14	0.05%	
	14, 15.2	0.04%	
	13, 15.2	0.04%	
	13, 13	0.03%	
	15.2, 15.2	0.03%	
	Q, 14	0.00%	
	15, 15.2	0.00%	
	13, 15	0.00%	
vWA	14, 17	37.15%	14, F
	14, 14	31.54%	
	14, 16	25.20%	
	14, 15	4.64%	
	Q, 14	1.20%	
	14, 18	0.26%	
TPOX	10, 10	38.55%	10, F
	9, 10	25.85%	
	10, 12	19.48%	
	10, 11	10.72%	
	8, 10	4.51%	
	7, 10	0.52%	
	Q, 10	0.36%	
	9, 12	0.00%	
	8, 9	0.00%	
	9, 9	0.00%	
D18S51	15, 19	99.81%	15, 19
	15, 15	0.05%	
	14, 15	0.04%	
	15, 21	0.03%	
	15, 16	0.03%	
	15, 17	0.02%	
	13, 15	0.01%	
	15, 20	0.01%	
	Q, 15	0.00%	
D5S818	7, 9	96.36%	9, F
	9, 10	3.60%	
	9, 13	0.02%	
	9, 11	0.00%	
	9, 9	0.00%	
	9, 12	0.00%	
	Q, 9	0.00%	
FGA	23, 27	97.98%	27, F
	26, 27	1.37%	
	23, 26	0.31%	
	23, 23	0.08%	
	23, 24	0.07%	
	22, 23	0.07%	
	18, 23	0.05%	
	Q, 23	0.05%	
	21, 23	0.03%	

COMPONENT INTERPRETATION SUMMARY $\geq 99\%$

LOCUS	CONTRIBUTORS		
	1 (60%)	2 (38%)	3 (2%)
D8S1179	12, 15	11, 16	13, F
D21S11	29, 29	29, 30	28.2, 32.2
D7S820	8, 11	11, 12	9, F
CSF1PO	10, 12	9, 11	F, F
D3S1358	14, 17	17, 17	F, F
TH01	8, 9	6, 9	F, F
D13S317	9, 13	8, 12	F, F
D16S539	12, 13	10, 10	9, F
D2S1338	23, 24	17, 18	F, F
D19S433	13, 14	14, 15.2	13.2, F
vWA	16, 17	17, 17	14, F
TPOX	8, 11	8, F	10, F
D18S51	14, 17	16, 21	15, 19
D5S818	11, 12	11, 12	9, F
FGA	22, 24	18, F	27, F

EVIDENCE INPUT FILES

2017B1134-017_B06.HID_EV.CSV

LOCUS	ALLELE	HEIGHT	SIZE
D8S1179	10	429	130
	11	4729	134
	12	7231	138
	13	1074	143
	14	503	147
	15	6626	152
D21S11	16	3876	156
	28	816	199
	28.2	110	201
	29	11770	203
	30	3485	207
	31	248	211
D7S820	32.2	1051	217
	7	138	258
	8	2877	262
	9	461	266
	10	397	270
	11	6233	274
CSF1PO	12	1926	278
	8	114	311
	9	4161	315
	10	3892	319
	11	3436	323
	12	3667	327
D3S1358	13	427	114
	14	7482	118
	15	466	122
	16	1571	126
	17	16724	131
	18	212	135
TH01	6	5904	170
	7	795	174
	8	7975	178
	9	14074	182
D13S317	8	3827	215
	9	4996	219
	10	300	223
	11	286	227
	12	4096	231
	13	4421	235
D16S539	9	1433	267
	10	9811	271
	11	528	275
	12	9113	279
	13	6988	283
D2S1338	16	182	310
	17	3546	314
	18	4335	318
	22	550	334
	23	7471	338
	24	4724	342
	25	116	346
D19S433	12	571	112
	13	9781	116
	13.2	133	118
	14	16019	120
	14.2	420	122
	15	129	124
	15.2	5111	126
vWA	14	491	165
	15	595	169
	16	8750	173
	17	18891	177
	18	143	181
	7	236	225
TPOX	8	14749	229
	9	485	233
	10	1182	237
	11	9047	241

LOCUS	ALLELE	HEIGHT	SIZE
	12	259	245
D18S51	13	451	285
	14	6219	289
	15	1074	293
	16	4449	297
	17	4781	301
	19	133	310
	20	457	314
	21	3838	318
AMEL	X	18590	105
	Y	9603	111
D5S818	7	194	133
	9	368	141
	10	1219	146
	11	9608	150
	12	8818	154
	13	475	158
FGA	18	1816	217
	21	417	229
	22	5678	233
	23	619	237
	24	3191	241
	26	175	249
	27	136	253

REFERENCE FILES

LOCUS	2017B1134-014_G05.HID_REF.CSV
D8S1179	12, 15
D21S11	29, 29
D7S820	8, 11
CSF1PO	10, 12
D3S1358	14, 17
TH01	8, 9
D13S317	9, 13
D16S539	12, 13
D2S1338	23, 24
D19S433	13, 14
vWA	16, 17
TPOX	8, 11
D18S51	14, 17
D5S818	11, 12
FGA	22, 24

POST BURN-IN SUMMARY

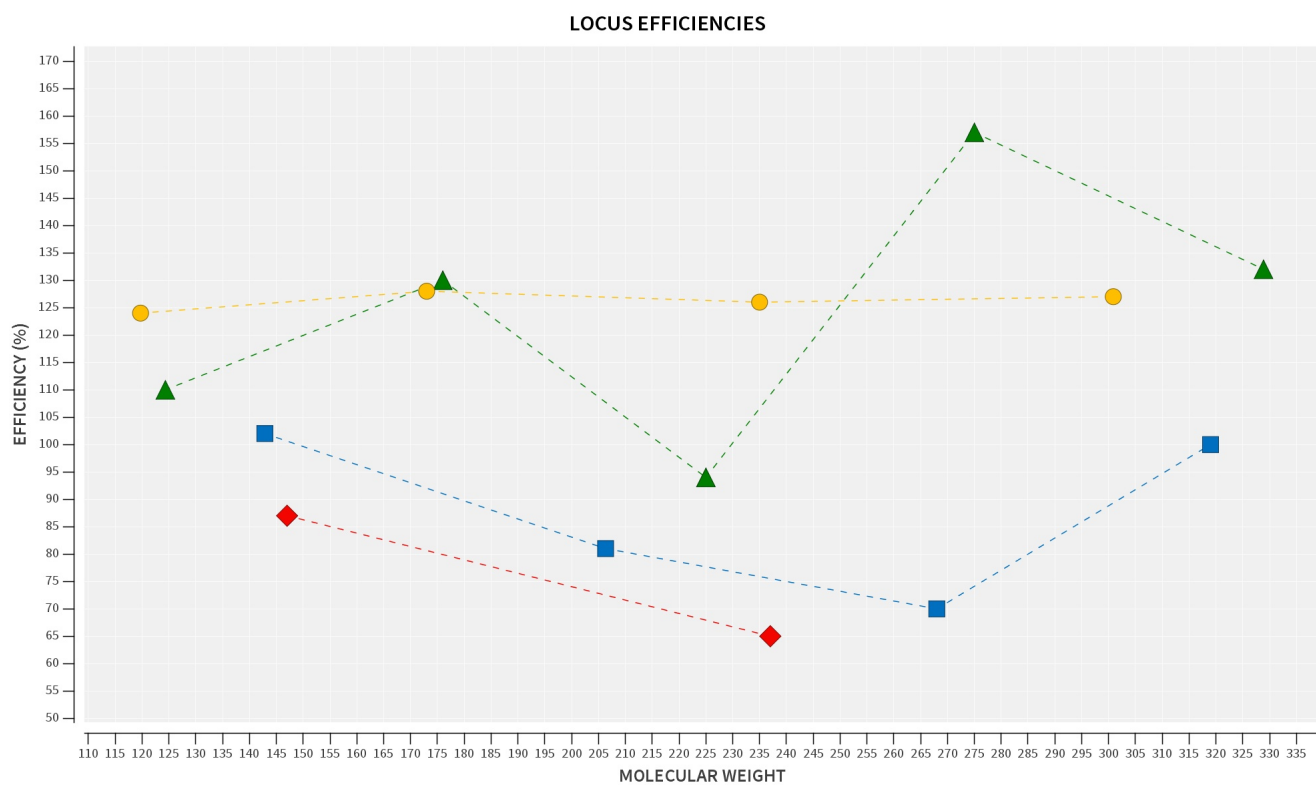
Total iterations	4423250	Acceptance rate	1 in 11.06
Effective sample size	16967.67	log(likelihood)	20.14
Gelman-Rubin convergence diagnostic	1.15		
Allele variance (mode = 5.759)	15.958	Stutter variance (mode = 12.408)	38.372

STUTTER FILES USED IN RUN

Stutter File	Identifiler_Stutter_3500.txt
Stutter Exceptions File	Identifiler_Stutter_Exceptions_3500.csv
Forward Stutter File	Identifiler_Forward_Stutter_3500.txt

LOCUS EFFICIENCIES

LOCUS	LOCUS EFFICIENCY	DETECTION THRESHOLD
D8S1179	102%	75
D21S11	81%	75
D7S820	70%	75
CSF1PO	100%	75
D3S1358	110%	100
TH01	130%	100
D13S317	94%	100
D16S539	157%	100
D2S1338	132%	100
D19S433	124%	150
vWA	128%	150
TPOX	126%	150
D18S51	127%	150
D5S818	87%	200
FGA	65%	200



SETTINGS**CASE SETTINGS**

Case number	1134
Sample ID	GM
Comments	
Seed	322639
Extended output	N

MCMC SETTINGS

Number of contributors	3
Burn-in accepts per chain	100000
Post burn-in accepts per chain	50000
Use Mx priors	N
Number of chains	8
Random walk SD	0.005
Post burn-in shortlist	9.0
Auto continue on Gelman-Rubin	N

KIT SETTINGS

Ignored loci	
Detection thresholds	<div>D8S117975</div> <div>D21S1175</div> <div>D7S82075</div> <div>CSF1PO75</div> <div>D3S1358100</div> <div>TH01100</div> <div>D13S317100</div> <div>D16S539100</div> <div>D2S1338100</div> <div>D19S433150</div> <div>vWA150</div> <div>TPOX150</div> <div>D18S51150</div> <div>D5S818200</div> <div>FGA200</div>
Stutter max	0.15
Forward stutter max	0.1
Saturation	30000
Degradation starts at	-1.0
Degradation max	0.01
Drop-in cap	250
Drop-in frequency	1.0E-4
Drop-in gamma parameters	0.0, 0.0
Allelic variance (α , β)	7.8999, 0.8347
Stutter variance (α , β)	7.8341, 1.8156
Min variance factor	0.5
Locus amplification variance	0.0127

PROFILE SETTINGS

Number of evidence profiles	1
Evidence profile filenames	2017B1134-017_B06.hid_EV.csv
Number of Hp knowns	1
Hp reference filenames	2017B1134-014_G05.hid_REF.csv
Number of Hd knowns	1
Hd reference filenames	2017B1134-014_G05.hid_REF.csv

PERFORMANCE SETTINGS

Number of threads	8
Low memory mode	N