

Parentage Exclusion Exercise

	Locus 1, A1	Locus 1, A2	Locus 2, A1	Locus 2, A2	Locus 3, A1	Locus 3, A2	Locus 4, A1	Locus 4, A2	Locus 5, A1	Locus 5, A2
Offspring A	C	A	T	T	A	T	C	T	A	A
Candidate parents										
Candidate 1	C	A	C	C	T	T	T	T	A	G
Candidate 2	A	A	T	T	A	A	T	T	A	G
Candidate 3	C	A	C	C	A	T	T	T	G	G
Candidate 4	C	C	C	C	T	T	C	T	G	G
Candidate 5	C	C	C	T	A	T	C	C	A	A

Offspring A, should match 2 and 5

	Locus 1, A1	Locus 1, A2	Locus 2, A1	Locus 2, A2	Locus 3, A1	Locus 3, A2	Locus 4, A1	Locus 4, A2	Locus 5, A1	Locus 5, A2
Offspring B	C	A	C	C	T	T	T	T	A	G
Candidate parents										
Candidate 1	C	A	C	C	T	T	T	T	A	G
Candidate 2	A	A	T	T	A	A	T	T	A	G
Candidate 3	C	A	C	C	A	T	T	T	G	G
Candidate 4	C	C	C	C	T	T	C	T	G	G
Candidate 5	C	C	C	T	A	T	C	C	A	A

Offspring B should match 1 and 3, 4

	Locus 1, A1	Locus 1, A2	Locus 2, A1	Locus 2, A2	Locus 3, A1	Locus 3, A2	Locus 4, A1	Locus 4, A2	Locus 5, A1	Locus 5, A2
Offspring C	A	A	T	C	A	T	T	T	A	A
Candidate parents										
Candidate 1	C	A	C	C	T	T	T	T	A	G
Candidate 2	A	A	T	T	A	A	T	T	A	G
Candidate 3	C	A	C	C	A	T	T	T	G	G
Candidate 4	C	C	C	C	T	T	C	T	G	G
Candidate 5	C	C	C	T	A	T	C	C	A	A

Offspring C, should match 1 and 2

	Locus 1, A1	Locus 1, A2	Locus 2, A1	Locus 2, A2	Locus 3, A1	Locus 3, A2	Locus 4, A1	Locus 4, A2	Locus 5, A1	Locus 5, A2
Offspring D	A	A	T	C	T	T	C	C	A	G
Candidate parents										
Candidate 1	C	A	C	C	T	T	T	T	A	G
Candidate 2	A	A	T	T	A	A	T	T	A	G
Candidate 3	C	A	C	C	A	T	T	T	G	G
Candidate 4	C	C	C	C	T	T	C	T	G	G
Candidate 5	C	C	C	T	A	T	C	C	A	A

Offspring D, Should not match any

parent unsampled, or poor DNA sample = not included in analysis