Supplementary Material

Table S1. Sample ID, mtDNA haplotype, sampling location and mtDNA clade membership of samples included in the phylogenetic analysis. Haplotypes were generated from two alignments S = 343 bp, H = 571 bp.

Accession number	Sample ID	mtDNA Haplotype	Sampling location	Latitude	Longitude	mtDNA clade
MK509116	JJK2782	S164	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509077	JJK2784	S105	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509110	JJK2786	S147	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509076	JJK2787	S104	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509095	JJK2788	S123	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509078	JJK2789	S105	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509115	JJK2790	S163	Varadero, Cuba	23.19039	-81.16894	*A. porcatus*
MK509160	JJK2793	S142/H118	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509161	JJK2794	S144/H119	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509167	JJK2795	S148	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509164	JJK2796	S148/H122	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509158	JJK2797	S131/H122	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509159	JJK2800	S131/H113	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509165	JJK2825	S149/H123	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509107	JJK2826	S139	Havana, Cuba	23.08706	-82.36572	*A. porcatus*
MK509098	JJK2827	S126	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509109	JJK2828	S143	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509156	JJK2829	S128/H110	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509100	JJK2832	S129	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509162	JJK2833	S145/H120	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509163	JJK2834	S146/H121	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509157	JJK2835	S130/H111	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509074	JJK2859	S99	Havana, Cuba	23.11684	-82.38881	*A. porcatus*
MK509092	JJK2984	S121	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*
MK509102	JJK2985	S132	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*
MK509094	JJK2986	S123	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*
MK509075	JJK2989	S100	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*
MK509112	JJK2991	S151	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*
MK509093	JJK2992	S122	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*
MK509085	JJK3003	S116	Mariel, Cuba	22.98575	-82.75347	*A. porcatus*

MK509097	JJK3026	S125	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509106	JJK3027	S137	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509104	JJK3028	S135	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509096	JJK3029	S124	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509103	JJK3030	S134	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509083	JJK3031	S113	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509113	JJK3032	S152	San Jose de las Lajas, Cuba	22.96503	-82.16134	*A. porcatus*
MK509105	JJK3066	S136	Guanabo, Cuba	23.15459	-82.10105	*A. porcatus*
MK509114	JJK3067	S152	Guanabo, Cuba	23.15459	-82.10105	*A. porcatus*
MK509101	JJK3068	S130	Guanabo, Cuba	23.15459	-82.10105	*A. porcatus*
MK509111	JJK3069	S150	Guanabo, Cuba	23.15459	-82.10105	*A. porcatus*
MK509108	JJK3070	S140	Guanabo, Cuba	23.15459	-82.10105	*A. porcatus*
MK509099	JJK3071	S127	Guanabo, Cuba	23.15459	-82.10105	*A. porcatus*
MK509135	MIA636	S63/H56	South Miami, FL	25.703825	-80.284162	*A. carolinensis*
MK509087	MIA637	S118	South Miami, FL	25.703825	-80.284162	*A. porcatus*
MK509166	MIA640	S194/H123	South Miami, FL	25.732598	-80.245682	*A. porcatus*
MK509090	MIA641	S118	South Miami, FL	25.732598	-80.245682	*A. porcatus*
MK509088	MIA642	S118	South Miami, FL	25.705713	-80.293224	*A. porcatus*
MK509086	MIA643	S117	South Miami, FL	25.705713	-80.293224	*A. porcatus*
MK509141	MIA644	H103	South Miami, FL	25.705892	-80.295908	*A. porcatus*
MK509082	MIA645	S111	South Miami, FL	25.705892	-80.295908	*A. porcatus*
MK509118	MIA646	S29/H31	South Miami, FL	25.705892	-80.295908	*A. carolinensis*
MK509123	MIA647	S37/H38	South Miami, FL	25.705892	-80.295908	*A. carolinensis*
MK509155	MIA648	S118/H107	South Miami, FL	25.705892	-80.295908	*A. porcatus*
MK509130	MIA649	S50/H49	South Miami, FL	25.705892	-80.295908	*A. carolinensis*
MK509154	MIA652	S118/H107	South Miami, FL	25.705892	-80.295908	*A. porcatus*
MK509117	MIA653	S28/H30	South Miami, FL	25.707552	-80.29912	*A. carolinensis*
MK509051	MIA654	S52	South Miami, FL	25.707552	-80.29912	*A. carolinensis*
MK509138	MIA655	S78/H67	South Miami, FL	25.707552	-80.29912	*A. carolinensis*
MK509142	MIA656	S111/H103	South Miami, FL	25.707552	-80.29912	*A. porcatus*
MK509146	MIA657	S118/H107	South Miami, FL	25.707552	-80.29912	*A. porcatus*
MK509121	MIA659	S36/H36	South Miami, FL	25.706803	-80.295817	*A. carolinensis*
MK509153	MIA660	S118/H107	South Miami, FL	25.705713	-80.293224	*A. porcatus*
MK509126	MIA661	S39/H41	South Miami, FL	25.705713	-80.293224	*A. carolinensis*
MK509062	MIA662	S61	South Miami, FL	25.705713	-80.293224	*A. carolinensis*
MK509152	MIA664	S118/H107	South Miami, FL	25.705713	-80.293224	*A. porcatus*
MK509122	MIA665	S36/H36	South Miami, FL	25.705077	-80.289196	*A. carolinensis*
MK509054	MIA667	S50	South Miami, FL	25.699681	-80.301318	*A. carolinensis*
MK509064	MIA668	S62	South Miami, FL	25.703554	-80.303461	*A. carolinensis*
MK509079	MIA670	S111	South Miami, FL	25.703554	-80.303461	*A. porcatus*

MK509063	MIA671	S62	South Miami, FL	25.703554	-80.303461	*A. carolinensis*
MK509127	MIA672	S45/H46	South Miami, FL	25.703554	-80.303461	*A. carolinensis*
MK509068	MIA673	S68	South Miami, FL	25.703554	-80.303461	*A. carolinensis*
MK509081	MIA674	S111	South Miami, FL	25.701835	-80.30337	*A. porcatus*
MK509124	MIA675	S37/H39	South Miami, FL	25.701835	-80.30337	*A. carolinensis*
MK509050	MIA676	S51	South Miami, FL	25.703554	-80.303461	*A. carolinensis*
MK509047	MIA677	S48	South Miami, FL	25.713857	-80.29235	*A. carolinensis*
MK509169	MIA680	S53	South Miami, FL	25.7109	-80.284038	*A. carolinensis*
MK509080	MIA681	S111	South Miami, FL	25.7109	-80.284038	*A. porcatus*
MK509058	MIA682	S58	South Miami, FL	25.7109	-80.284038	*A. carolinensis*
MK509091	MIA683	S120	South Miami, FL	25.715213	-80.283312	*A. porcatus*
MK509049	MIA684	S49	South Miami, FL	25.764939	-80.291341	*A. carolinensis*
MK509143	MIA685	S111/H103	South Miami, FL	25.71784	-80.273581	*A. porcatus*
MK509070	MIA686	S71	South Miami, FL	25.71784	-80.273581	*A. carolinensis*
MK509120	MIA688	S34/H35	South Miami, FL	25.71784	-80.273581	*A. carolinensis*
MK509072	MIA689	S79	South Miami, FL	25.71784	-80.273581	*A. carolinensis*
MK509043	MIA690	S30	South Miami, FL	25.71533	-80.280858	*A. carolinensis*
MK509065	MIA692	S62	South Miami, FL	25.71533	-80.280858	*A. carolinensis*
MK509150	MIA694	S118/H107	South Miami, FL	25.71533	-80.280858	*A. porcatus*
MK509061	MIA695	S60	South Miami, FL	25.71533	-80.280858	*A. carolinensis*
MK509052	MIA696	S53	South Miami, FL	25.71533	-80.280858	*A. carolinensis*
MK509066	MIA697	S66	South Miami, FL	25.715779	-80.281151	*A. carolinensis*
MK509148	MIA699	S118/H107	South Miami, FL	25.715779	-80.281151	*A. porcatus*
MK509053	MIA700	S45	South Miami, FL	25.715779	-80.281151	*A. carolinensis*
MK509149	MIA701	S118/H107	South Miami, FL	25.715779	-80.281151	*A. porcatus*
MK509060	MIA702	S59	South Miami, FL	25.718418	-80.279209	*A. carolinensis*
MK509089	MIA703	S118	South Miami, FL	25.717406	-80.276231	*A. porcatus*
MK509151	MIA705	S118/H107	South Miami, FL	25.717406	-80.276231	*A. porcatus*
MK509133	MIA709	S50/H53	South Miami, FL	25.703825	-80.284162	*A. carolinensis*
MK509132	MIA710	S50/H53	South Miami, FL	25.703825	-80.284162	*A. carolinensis*
MK509128	MIA712	S46/H47	South Miami, FL	25.706499	-80.2856	*A. carolinensis*
MK509147	MIA713	S118/H107	South Miami, FL	25.706499	-80.2856	*A. porcatus*
MK509129	MIA714	S47/H48	South Miami, FL	25.706499	-80.2856	*A. carolinensis*
MK509136	MIA715	S65/H58	South Miami, FL	25.706499	-80.2856	*A. carolinensis*
MK509131	MIA716	S50/H53	South Miami, FL	25.706275	-80.285502	*A. carolinensis*
MK509139	MIA717	S78/H69	South Miami, FL	25.706275	-80.285502	*A. carolinensis*
MK509125	MIA718	S38/H40	South Miami, FL	25.706275	-80.285502	*A. carolinensis*
MK509137	MIA719	S68/H59	South Miami, FL	25.706275	-80.285502	*A. carolinensis*
MK509140	MIA720	S78/H69	South Miami, FL	25.706275	-80.285502	*A. carolinensis*
MK509119	MIA721	S32/H33	South Miami, FL	25.706275	-80.285502	*A. carolinensis*

MK509134	MIA722	S62/H55	South Miami, FL	25.706499	-80.2856	*A. carolinensis*
MK509069	MIA723	S69	South Miami, FL	25.720751	-80.279788	*A. carolinensis*
MK509057	MIA724	S57	South Miami, FL	25.721547	-80.279833	*A. carolinensis*
MK509168	MIA725	S115	South Miami, FL	25.721547	-80.279833	*A. porcatus*
MK509045	MIA729	S35	South Miami, FL	25.718768	-80.281233	*A. carolinensis*
MK509067	MIA731	S67	South Miami, FL	25.717773	-80.294104	*A. carolinensis*
MK509073	MIA732	S78	South Miami, FL	25.717773	-80.294104	*A. carolinensis*
MK509055	MIA733	S50	South Miami, FL	25.722233	-80.297597	*A. carolinensis*
MK509071	MIA734	S75	South Miami, FL	25.722233	-80.297597	*A. carolinensis*
MK509056	MIA735	S56	South Miami, FL	25.724167	-80.298412	*A. carolinensis*
MK509044	MIA740	S31	South Miami, FL	25.724167	-80.298412	*A. carolinensis*
MK509144	MIA743	S114/H105	South Miami, FL	25.728767	-80.300729	*A. porcatus*
MK509046	MIA744	S42	South Miami, FL	25.736254	-80.308689	*A. carolinensis*
MK509059	MIA747	S54	South Miami, FL	25.736254	-80.308689	*A. carolinensis*
MK509048	MIA748	S48	South Miami, FL	25.740831	-80.311349	*A. carolinensis*
MK509084	MIA749	S115	South Miami, FL	25.740831	-80.311349	*A. porcatus*
MK509145	MIA750	S114/H105	South Miami, FL	25.740831	-80.311349	*A. porcatus*

Table S2: Primer sequences and annealing temperatures (Tm) for the 18 microsatellite loci and partial mtDNA region of the NADH dehydrogenase subunit 2.

Primer	Forward	Reverse	Reference	Tm
f06	GCCTTCCCTAAGCTATCCAAA	TGGCATTGAACCATCAGAA	This study	60
g01	CAGATGGTTGACTCGATGTGTT	TTCAATAAAGTTGTGGCTGGTG	This study	61
Ac2	TGTAAAACGACGGCCAGTGGCCACATAGTTGTGCCTCT	TTCACAATGTTTGTGGGTGT	This study	60
Ac5	TGTAAAACGACGGCCAGTTGCTGGATTTCGTATCACAA	GTGGCCCATGAGTCACATCT	This study	60
Ac6	TGTAAAACGACGGCCAGTTATTGTGATGTTGGGCAAGG	TGCTTCATGGTGATCTTGGA	This study	60
Acar1	CCAAAAACCAAAAAGGCTGA	TGGACACACATACACCCACA	Wordley et al. 2011	57
Acar4	ACAGGGTACTGTGGACAGGG	AGGAGCGTGGAGCTACAAAA	Wordley et al. 2011	58
Acar10	GGATGTGTGTGTTTGTGTTGG	GGCTGTTGAGGGATTCTTGA	Wordley et al. 2011	57
Acar11	AGTTTCCCAAGAAAACCCGT	GGGTTGCTCGTTCTGGACTA	Wordley et al. 2011	59
Acar14	TATGTTGGGAGAAAGACGGG	CCTGAGCTACGTGACATGGA	Wordley et al. 2011	59
Acar16	CCAGAAAGCTTATTTCGGGTT	ATGTTGGATGAGCAAGGAGG	Wordley et al. 2011	58
Acar19	GAAAAGTAGTGGGGCATTGG	AGTTTCCCAAGAAAACCCGT	Wordley et al. 2011	57
Acar22	AACCACCTTTGTTCTGGTGC	AAGATGGCATTTCAGTGTTGC	Wordley et al. 2011	58
Acar23	TAATGGGGAGCAATTCAAGG	GAGCCCTATCTTTGGAAGGC	Wordley et al. 2011	58
Acar28	AACCCCATACATCGCCAATA	GAACTTGCATGAGGCTGTCA	Wordley et al. 2011	58
Acar30	CATCTCTTCAGGCTTTTGCC	CTGTCTCTTCCTCCACCTGC	Wordley et al. 2011	57
Acar32	ATCTGTGCTACACTGGCCCT	TCCCCACAGTCAAAAGAAGC	Wordley et al. 2011	58
Acar43	GAGAGGCCACCAGCATTTAC	GCATAAAGTGGGAATTGCTTC	Wordley et al. 2011	59
ND2	CCCACGATCTACAGAAGCAG	AGTAGGGAGGATGCGGCTAT	This study	57

Table S3. Published sequences of mtDNA NADH dehydrogenase subunit 2 and haplotypes from two alignments. S = 343bp, H = 571bp.

Accession number	mtDNA Haplotype		Reference	Species
AY654025	S2	H2	Glor et al. 2004	*A. porcatus*
AY654026	S96	H91	Glor et al. 2004	*A. porcatus*
AY654027	S95	H90	Glor et al. 2004	*A. porcatus*
AY654028	S3	H3	Glor et al. 2004	*A. porcatus*
AY654029	S119	H108	Glor et al. 2004	*A. porcatus*
AY654030	S93	H88	Glor et al. 2004	*A. porcatus*
AY654031	S97	H92	Glor et al. 2004	*A. porcatus*
AY654032	S94	H89	Glor et al. 2004	*A. porcatus*
AY654033	S98	H93	Glor et al. 2004	*A. porcatus*
AY654034	S109	H101	Glor et al. 2004	*A. porcatus*
AY654035	S133	H115	Glor et al. 2004	*A. porcatus*
AY654036	S138	H116	Glor et al. 2004	*A. porcatus*
AY654037	S132	H114	Glor et al. 2004	*A. porcatus*
AY654038	S123	H109	Glor et al. 2004	*A. porcatus*
AY654039	S112	H104	Glor et al. 2004	*A. porcatus*
AY654040	S141	H117	Glor et al. 2004	*A. porcatus*
AY654041	S141	H117	Glor et al. 2004	*A. porcatus*
AY654042	S153	H126	Glor et al. 2004	*A. porcatus*
AY654043	S108	H100	Glor et al. 2004	*A. porcatus*
AY654044	S108	H100	Glor et al. 2004	*A. porcatus*
AY654045	S102	H96	Glor et al. 2004	*A. porcatus*
AY654046	S106	H98	Glor et al. 2004	*A. porcatus*
AY654047	S101	H94	Glor et al. 2004	*A. porcatus*
AY654048	S101	H95	Glor et al. 2004	*A. porcatus*
AY654050	S172	H144	Glor et al. 2004	*A. porcatus*
AY654051	S103	H97	Glor et al. 2004	*A. porcatus*
AY654052	S151	H125	Glor et al. 2004	*A. porcatus*
AY654053	S108	H100	Glor et al. 2004	*A. porcatus*
AY654055	S107	H99	Glor et al. 2004	*A. porcatus*
AY654056	S108	H100	Glor et al. 2004	*A. porcatus*
AY654057	S166	H137	Glor et al. 2004	*A. porcatus*
AY654058	S165	H136	Glor et al. 2004	*A. porcatus*
AY654059	S162	H135	Glor et al. 2004	*A. porcatus*
AY654060	S161	H134	Glor et al. 2004	*A. porcatus*
AY654061	S159	H132	Glor et al. 2004	*A. porcatus*

AY654062	S159	H132	Glor et al. 2004	*A. porcatus*
AY654063	S158	H131	Glor et al. 2004	*A. porcatus*
AY654064	S160	H133	Glor et al. 2004	*A. porcatus*
AY654065	S157	H130	Glor et al. 2004	*A. porcatus*
AY654066	S154	H127	Glor et al. 2004	*A. porcatus*
AY654067	S154	H127	Glor et al. 2004	*A. porcatus*
AY654068	S155	H128	Glor et al. 2004	*A. porcatus*
AY654070	S156	H129	Glor et al. 2004	*A. porcatus*
AY654071	S167	H138	Glor et al. 2004	*A. porcatus*
AY654072	S168	H139	Glor et al. 2004	*A. porcatus*
AY654073	S169	H141	Glor et al. 2004	*A. porcatus*
AY654074	S170	H142	Glor et al. 2004	*A. porcatus*
AY654075	S168	H140	Glor et al. 2004	*A. porcatus*
AY654076	S171	H143	Glor et al. 2004	*A. porcatus*
AY654077	S181	H155	Glor et al. 2004	*A. porcatus*
AY654078	S182	H156	Glor et al. 2004	*A. porcatus*
AY654079	S179	H152	Glor et al. 2004	*A. porcatus*
AY654081	S180	H154	Glor et al. 2004	*A. porcatus*
AY654082	S180	H154	Glor et al. 2004	*A. porcatus*
AY654083	S180	H154	Glor et al. 2004	*A. porcatus*
AY654084	S180	H153	Glor et al. 2004	*A. porcatus*
AY654085	S173	H145	Glor et al. 2004	*A. porcatus*
AY654086	S173	H145	Glor et al. 2004	*A. porcatus*
AY654087	S174	H146	Glor et al. 2004	*A. porcatus*
AY654088	S175	H147	Glor et al. 2004	*A. porcatus*
AY654089	S178	H151	Glor et al. 2004	*A. porcatus*
AY654090	S177	H149	Glor et al. 2004	*A. porcatus*
AY654091	S177	H149	Glor et al. 2004	*A. porcatus*
AY654092	S177	H149	Glor et al. 2004	*A. porcatus*
AY654093	S177	H150	Glor et al. 2004	*A. porcatus*
AY654094	S176	H148	Glor et al. 2004	*A. porcatus*
AY902428	S70	H60	Glor et al. 2005	*A. carolinensis*
AY902429	S74	H63	Glor et al. 2005	*A. carolinensis*
AY902430	S12	H12	Glor et al. 2005	*A. carolinensis*
AY902431	S10	H10	Glor et al. 2005	*A. carolinensis*
AY902432	S19	H20	Glor et al. 2005	*A. carolinensis*
AY902433	S16	H21	Glor et al. 2005	*A. carolinensis*
AY902434	S82	H80	Glor et al. 2005	*A. carolinensis*
EU106323	S11	H11	Kolbe et al. 2007	*A. carolinensis*
EU106324	S20	H22	Kolbe et al. 2007	*A. carolinensis*

EU106325	S16	H18	Kolbe et al. 2007	*A. carolinensis*
EU106326	S17	H17	Kolbe et al. 2007	*A. carolinensis*
EU106327	S18	H19	Kolbe et al. 2007	*A. carolinensis*
EU106328	S83	H72	Kolbe et al. 2007	*A. carolinensis*
EU106329	S89	H83	Kolbe et al. 2007	*A. carolinensis*
EU106330	S45	H51	Kolbe et al. 2007	*A. carolinensis*
EU106331	S76	H65	Kolbe et al. 2007	*A. carolinensis*
EU106332	S54	H52	Kolbe et al. 2007	*A. carolinensis*
EU106333	S30	H32	Kolbe et al. 2007	*A. carolinensis*
EU106334	S64	H57	Kolbe et al. 2007	*A. carolinensis*
EU106335	S78	H69	Kolbe et al. 2007	*A. carolinensis*
EU106336	S44	H45	Kolbe et al. 2007	*A. carolinensis*
EU106337	S50	H53	Kolbe et al. 2007	*A. carolinensis*
EU106338	S41	H43	Kolbe et al. 2007	*A. carolinensis*
EU106339	S55	H54	Kolbe et al. 2007	*A. carolinensis*
EU106340	S52	H50	Kolbe et al. 2007	*A. carolinensis*
EU106341	S43	H44	Kolbe et al. 2007	*A. carolinensis*
EU106342	S50	H53	Kolbe et al. 2007	*A. carolinensis*
EU106343	S110	H102	Kolbe et al. 2007	*A. porcatus*
EU106344	S118	H106	Kolbe et al. 2007	*A. porcatus*
JX524289	S33	H34	Campbell-Staton et al. 2012	*A. carolinensis*
JX524291	S24	H26	Campbell-Staton et al. 2012	*A. carolinensis*
JX524292	S25	H27	Campbell-Staton et al. 2012	*A. carolinensis*
JX524293	S22	H24	Campbell-Staton et al. 2012	*A. carolinensis*
JX524294	S26	H28	Campbell-Staton et al. 2012	*A. carolinensis*
JX524295	S23	H25	Campbell-Staton et al. 2012	*A. carolinensis*
JX524296	S73	H62	Campbell-Staton et al. 2012	*A. carolinensis*
JX524297	S68	H59	Campbell-Staton et al. 2012	*A. carolinensis*
JX524298	S62	H55	Campbell-Staton et al. 2012	*A. carolinensis*
JX524299	S40	H42	Campbell-Staton et al. 2012	*A. carolinensis*
JX524300	S80	H68	Campbell-Staton et al. 2012	*A. carolinensis*
JX524301	S33	H34	Campbell-Staton et al. 2012	*A. carolinensis*
JX524302	S50	H53	Campbell-Staton et al. 2012	*A. carolinensis*
JX524303	S36	H37	Campbell-Staton et al. 2012	*A. carolinensis*
JX524304	S62	H55	Campbell-Staton et al. 2012	*A. carolinensis*
JX524310	S6	H6	Campbell-Staton et al. 2012	*A. carolinensis*
JX524311	S4	H4	Campbell-Staton et al. 2012	*A. carolinensis*
JX524312	S9	H9	Campbell-Staton et al. 2012	*A. carolinensis*
JX524313	S7	H7	Campbell-Staton et al. 2012	*A. carolinensis*
JX524314	S5	H5	Campbell-Staton et al. 2012	*A. carolinensis*

JX524315	S16	H16	Campbell-Staton et al. 2012	*A. carolinensis*
JX524316	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524317	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524318	S14	H14	Campbell-Staton et al. 2012	*A. carolinensis*
JX524319	S13	H13	Campbell-Staton et al. 2012	*A. carolinensis*
JX524320	S15	H15	Campbell-Staton et al. 2012	*A. carolinensis*
JX524321	S88	H82	Campbell-Staton et al. 2012	*A. carolinensis*
JX524322	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524323	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524324	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524325	S8	H8	Campbell-Staton et al. 2012	*A. carolinensis*
JX524326	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524327	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524328	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524329	S84	H74	Campbell-Staton et al. 2012	*A. carolinensis*
JX524330	S87	H79	Campbell-Staton et al. 2012	*A. carolinensis*
JX524331	S86	H78	Campbell-Staton et al. 2012	*A. carolinensis*
JX524332	S82	H76	Campbell-Staton et al. 2012	*A. carolinensis*
JX524368	S82	H75	Campbell-Staton et al. 2012	*A. carolinensis*
JX524369	S85	H77	Campbell-Staton et al. 2012	*A. carolinensis*
JX524370	S82	H81	Campbell-Staton et al. 2012	*A. carolinensis*
JX524371	S82	H73	Campbell-Staton et al. 2012	*A. carolinensis*
JX524372	S82	H73	Campbell-Staton et al. 2012	*A. carolinensis*
JX524373	S91	H85	Campbell-Staton et al. 2012	*A. carolinensis*
JX524374	S91	H86	Campbell-Staton et al. 2012	*A. carolinensis*
JX524375	S21	H23	Campbell-Staton et al. 2012	*A. carolinensis*
JX524376	S90	H84	Campbell-Staton et al. 2012	*A. carolinensis*
JX524377	S92	H87	Campbell-Staton et al. 2012	*A. carolinensis*
JX524408	S72	H61	Campbell-Staton et al. 2012	*A. carolinensis*
JX524410	S74	H64	Campbell-Staton et al. 2012	*A. carolinensis*
JX524412	S77	H66	Campbell-Staton et al. 2012	*A. carolinensis*
JX524414	S27	H29	Campbell-Staton et al. 2012	*A. carolinensis*
JX524419	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524420	S81	H70	Campbell-Staton et al. 2012	*A. carolinensis*
JX524421	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*
JX524422	S82	H71	Campbell-Staton et al. 2012	*A. carolinensis*

Table S4: Residual matrix of tree-based population models. Positive values indicate greater genetic variation in the true population than explained by the model. Lower positive residuals show improvement of the model after including migration.

No Migration			
	SFL	**MIA**	**WCU**
SFL	0.29		
MIA	**2.05**	-4.10	
WCU	-2.34	**2.05**	0.29
Migration			
	SFL	**MIA**	**WCU**
SFL	-0.32		
MIA	-0.07	-0.28	
WCU	**0.39**	**0.35**	-0.74

Table S5. Deviation of summary statistics between the observed data and simulated data from the posterior predictive distributions in the ABC analyses. A = mean number of alleles, H = mean gene diversity, FST = pairwise F_{ST} – value, λ = maximum likelihood coefficient of admixture.

Summary Statistics	Observed Value	Proportion (simulated<observed)	Significance
A_{SFL}	10.22	0.63	
A_{MIA}	13.17	0.06	
A_{WCU}	12.61	0.31	
H_{SFL}	0.80	0.42	
H_{MIA}	0.81	0.03	*
H_{WCU}	0.86	0.54	
$F_{ST\text{-}SFL \times MIA}$	0.09	0.11	
$F_{ST\text{-}SFL \times WCU}$	0.08	0.00	***
$F_{ST\text{-}MIA \times WCU}$	0.07	0.81	
$\bar{\lambda}$	0.31	0.87	

Table S6. Bias and precision of parameter estimates of the ABC analysis. Bias = the average relative bias, MMedAD = relative median absolute deviation, RMAE = relative median of the absolute error.

Parameter	Bias	MMedAD	RMAE
N_{SFL}	0.11	0.40	0.21
N_{MIA}	0.25	0.59	0.30
N_{WCU}	0.00	0.23	0.12
T_{A}	0.29	0.95	0.42
R_{A}	-0.07	0.30	0.17
T_{MRCA}	-0.02	0.31	0.20
µmic_1	-0.07	0.26	0.16
pmic_1	0.06	0.40	0.24
snimic_1	111.89	225.67	21.72

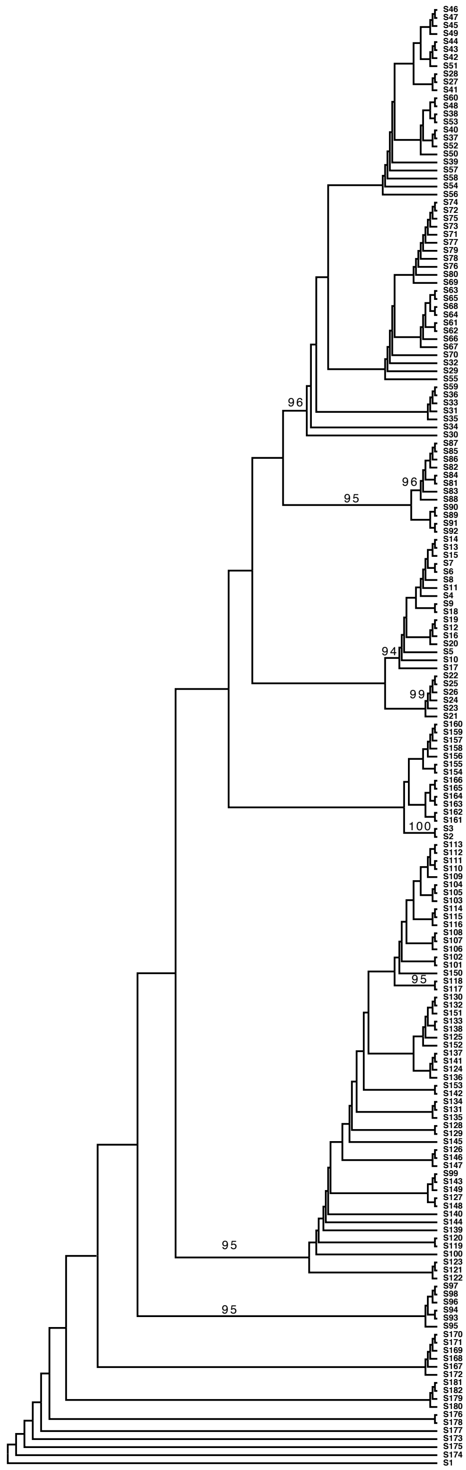

Figure S1. Maximum likelihood phylogeny of mtDNA haplotypes of the 343bp alignment. The phylogeny includes all 280 individuals and were collapsed into 181 unique haplotypes. Bootstrap values are shown above branches for values >95.

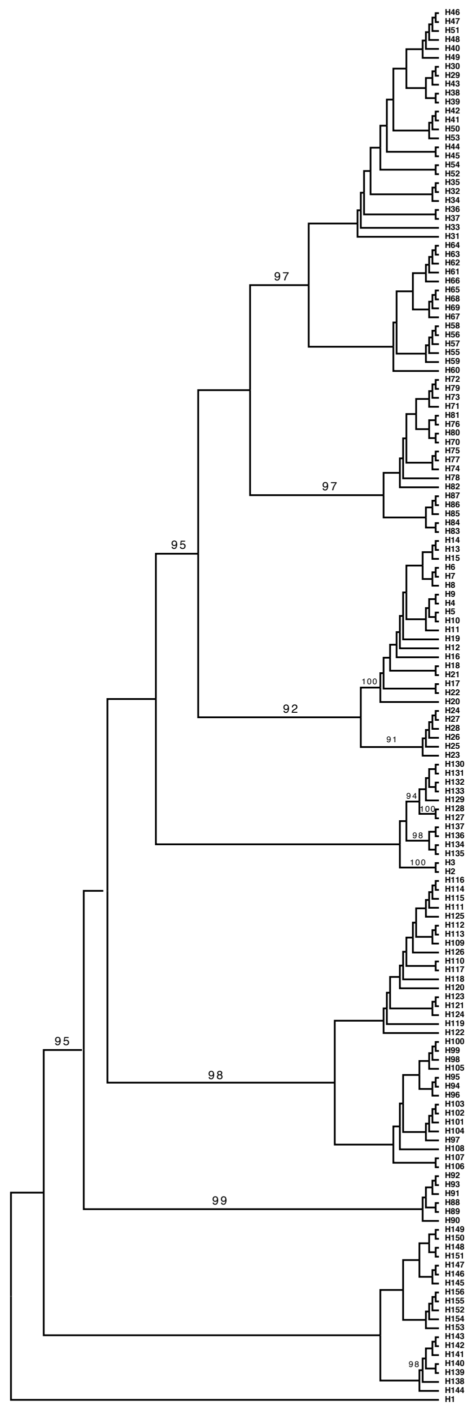

Figure S2. Maximum likelihood phylogeny of mtDNA haplotypes of the 571bp alignment. The phylogeny includes 200 individuals and were collapsed into 156 unique haplotypes. Bootstrap values are shown above branches for values >95.

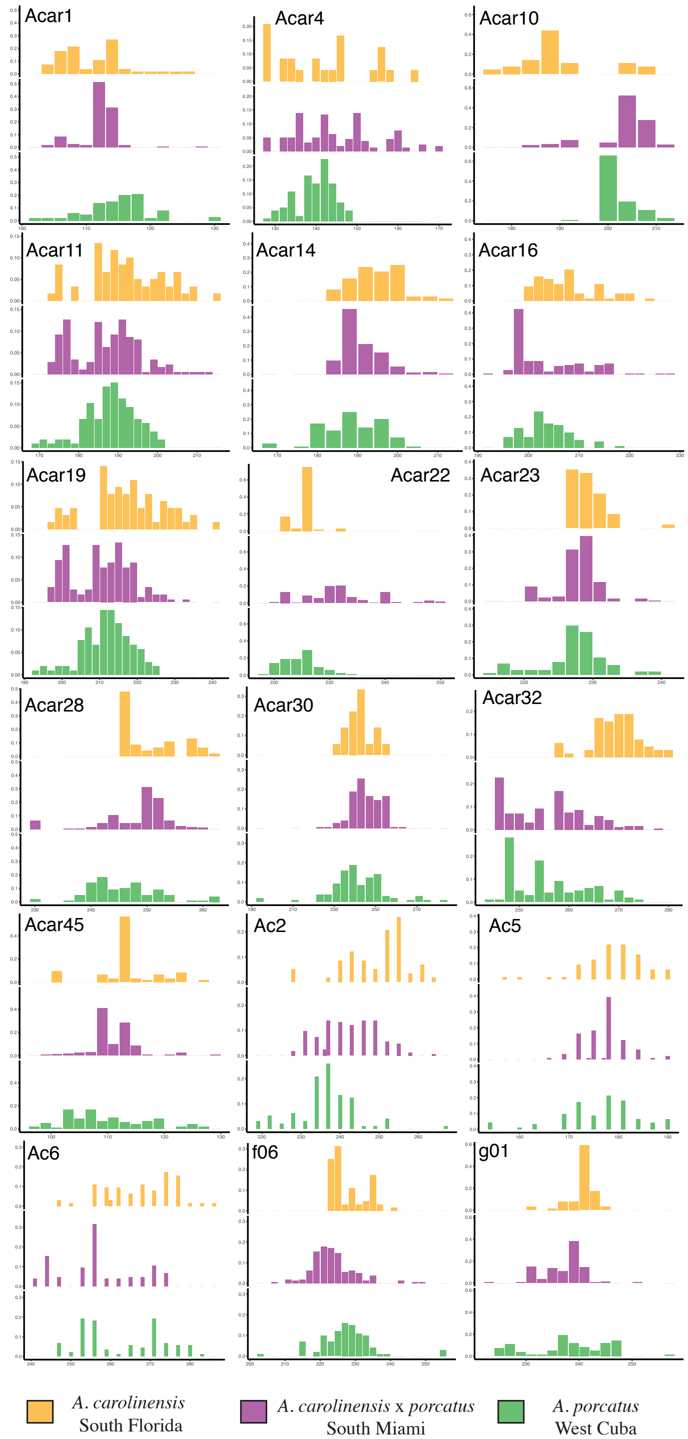

Figure S3. Allele frequency distributions for 18 microsatellite markers. *Anolis carolinensis* from SFL is shown in yellow, *A. porcatus* from WCU is shown in green and the hybrid population from MIA is shown in magenta.

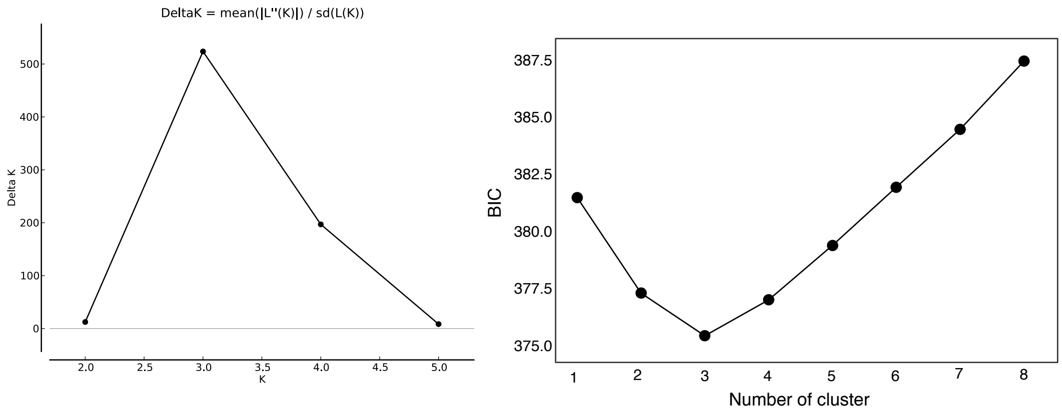

Figure S4. Model comparison for a sequentially increasing number of clusters (K). left: delta K for STRUCTURE models with varying number of clusters. Large delta K indicates that K = 3 clusters is the best fitting model. Right: BIC values for cluster models generated by DAPC. The best fitting model indicated by the smallest BIC and has three clusters.

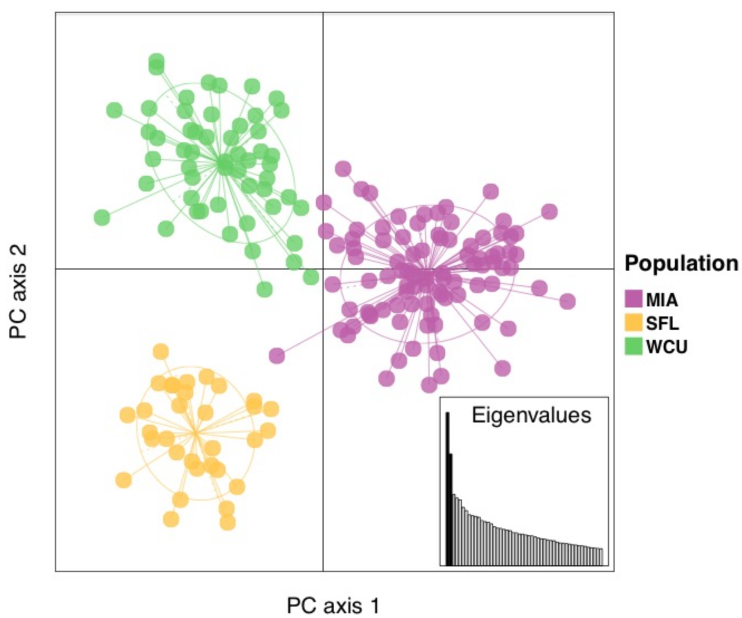

Figure S5. Principal component analysis of microsatellite genotypes from western Cuba (WCU), southern Florida (SFL) and South Miami (MIA) shows genetic variation within and between populations. The three sampling locations form separate genetic clusters.

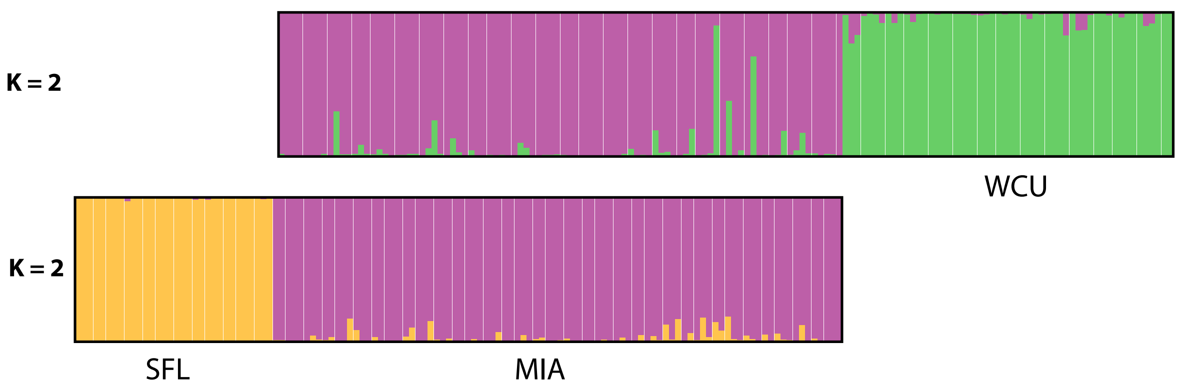

Figure S6. STRUCTURE analysis of population pairs. Populations cluster according to the sampling location and no further substructure was detected.

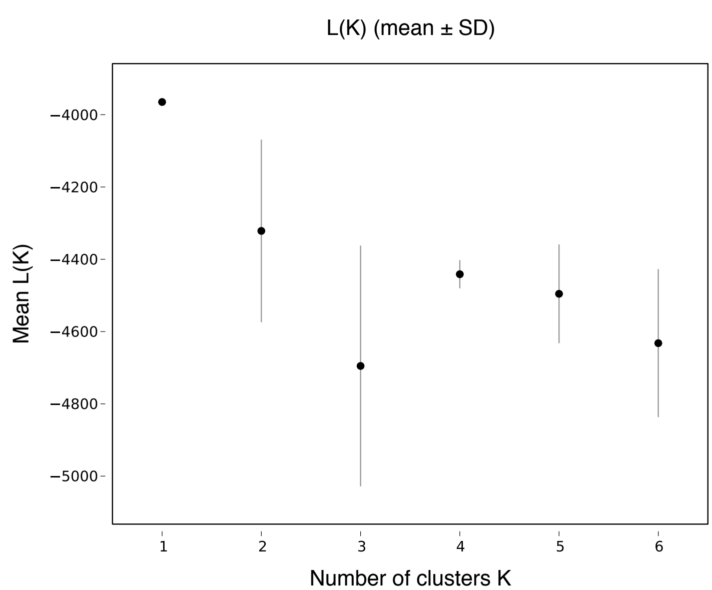

Figure S7. Log likelihood L(K) of STRUCTURE models with increasing number of clusters K for the WCU sampling locations. L(K) decreases with increasing number of clusters suggesting absence of population structure within WCU.

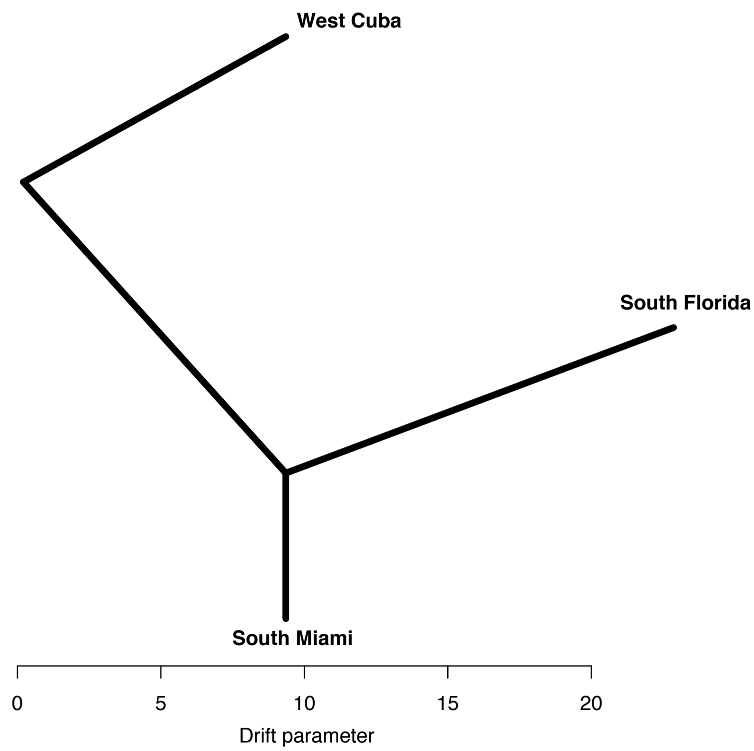

Figure S8. Simple tree model used to test for historic gene flow. The simple tree model accounted for 80% of the variance in the data.