

Table S1. Host demographic information for all sequenced isolates. Ancestry dervied from Johnson et al. (12) (CFP, canonical Florida panther; BC, backcross; Adm, admixed; EVG, Everglades; AdmFP, admixed Florida panther; SEM, Seminole; TX, Texas; TBA, to be assigned).

Lab ID	Field ID	Collection Date	Ancestry	Sex	Age	GenBank Accession No.
X1409	PCO-424/FP48	2/18/05	CFP	F	Adult	MN531123
X1410	PCO-539/FP60	6/29/04	CFP	M	Adult	MN531136
X1411	PCO-901/FP69	1/3/05	CFP	F	Adult	MN531108
X1412	PCO-910/FP79	4/18/04	CFP-F1	M	Adult	MN531111
X1416	PCO-1000/FP104	3/10/06	TX-BC	M	Adult	MN531100
X1419	PCO-1037/FP113	11/9/06	CFP	F	Adult	MN531129
X1424	PCO-1094FP127	2/5/08	TX-BC	M	Adult	MN531110
X1425	PCO-977/FP128	2/18/04	CFP-BC	F	Adult	MN531133
X1427	FP131	3/10/04	AdmFP+EVG	M	Adult	MN531138
X1428	PCO-1123/FP133	2/20/08	CFP-BC	M	Adult	MN531107
X1429	FP134/P1124	12/14/04	CFP-BC+EVG	M	Adult	MN531109
X1432	FP137	12/12/08	Adm+SEM	M	Adult	MN531141
X1440	FP146	1/29/07	AdmFP	M	Adult	MN531099
X1443	FP156	12/7/07	AdmFP	M	Adult	MN531095
X1444	FP157	12/19/07	CFP-BC+SEM	M	Adult	MN531131
X1445	FP159	1/29/08	CFP-BC	M	Adult	MN531143
X1446	FP160	2/5/08	CFP	F	Adult	MN531113
X1447	FP165	11/24/08	Unknown	M	Yearling	MN531087
X1448	FP166	1/30/09	Unknown	M	Adult	MN531103
X1449	FP167	2/6/09	Unknown	M	Adult	MN531088
X1450	FP168	2/9/09	Unknown	F	Adult	MN531098
X1451	FP170	2/26/09	AdmFP	F	Adult	MN531118
X1452	FP172	11/19/09	Unknown	F	Adult	MN531142
X1454	FP174	1/26/10	Unknown	M	Adult	MN531117
X1455	FP176	2/8/10	AdmFP	M	Adult	MN531102
X1745	PCO-160/FP32	9/12/02	CFP	F	Adult	MN531105
X1749	PCO-733/TX106	2/16/95	TX	F	Adult	MN531127
X1765	PCO-732/TX104	1/23/97	TX	F	Adult	MN531106
X1834	PCO-133/TX15	6/1/88	TX	F	Unknown	MN531092
X1841	PCO-174/FP36	1/8/92	CFP	F	Adult	MN531084
X1842	PCO-175/FP37	1/30/90	EVG	M	Adult	MN531090
X1877	PCO-534/TX44	3/8/94	TX	F	Yearling	MN531083
X1880	PCO-540/FP55	3/9/00	EVG	F	Adult	MN531137
X1892	PCO-739/TX105	6/1/95	TX	F	Adult	MN531125
X1895	PCO-902/FP66	7/16/98	CFP-F1	F	Yearling	MN531089

X1896	PCO-903/FP73	11/12/98	CFP-F1	F	Adult	MN531139
X1915	PCO-972/FP96	1/18/02	CFP-BC	M	Yearling	MN531124
X1926	PCO-1002/FP106	2/20/03	CFP	F	Adult	MN531134
X1936	PCO-1033/FP119	11/17/04	TX-BC	M	Adult	MN531112
X1937	PCO-1038/FP114	10/23/03	CFP	M	Yearling	MN531128
X1945	PCO-1079/FP150	2/8/07	CFP-BC	F	Adult	MN531101
X1948	PCO-1087/FP122	1/30/04	CFP	F	Roelke	MN531094
X1949	Pco-1088/FP123	2/2/04	CFP-BC	M	Adult	MN531132
X1950	PCO-1091/FP124	2/27/08	AdmFP+EVG	F	Adult	MN531121
X1952	PCO-1093/FP126	5/28/04	AdmFP+EVG	M	Kitten	MN531126
X1953	PCO-1095/FP71	2/17/04	TX-BC	F	Adult	MN531140
X1955	PCO-1098/FP132	7/23/04	SEM+AdmFP	M	Adult	MN531104
X1957	PCO-1115/FP161	2/11/08	TX-BC	F	Kitten	MN531097
X1966	PCO-1238/FP152	2/16/07	CFP-BC	M	Adult	MN531116
X1967	PCO-1239/FP153	3/3/08	TX-BC	F	Adult	MN531130
X1980	PCO-1277/UCFP98	6/12/07	AdmFP	M	Adult	MN531114
X1984	PCO-1295/FP158	1/21/08	TX-BC	F	Adult	MN531120
X1989	PCO-1303/UCFP104	4/15/08	TX-BC	F	Yearling	MN531091
X1991	PCO-1311/UCFP100	6/23/07	CFP-BC+SEM	M	Adult	MN531119
X1995	PCO-1340/K279	3/1/10	AdmFP	F	Yearling	MN531122
X1996	PCO-1342/FP171	2/28/09	TX-BC+EVG	M	Adult	MN531115
X2002	PCO-1375/FP179	2/14/10	CFP-BC	M	Adult	MN531135
X2021	PCO-1373/FP177	2/9/10	CFP-BC+EVG+SEM	M	Adult	MN531086
X2025	PCO-1424/FP191	2/26/11	AdmFP	F	Adult	MN531096
X2026	PCO-153/TX16	5/31/88	TX	F	Unknown	MN531085
X2058	PCO-982/FP95	3/24/03	EVG-F1	F	Adult	MN531093

Table S2. Primer names and sequences.

FIVpco Primer Name	Sequence	FIVru Primer Name	Sequence
PLVB1_1_LEFT	TGG GGA ATG AGT CAG GGA AAG A	PLVAFL_1_LEFT	AGG AAA AGA GGT AAA GGC AGC CT
PLVB1_1_RIGHT	ATA GGA GCC ACT TGA GCT GGT T	PLVAFL_1_RIGHT	GAA CTG GGT ATG CTT CTG CTG G
PLVB1_2_LEFT	GCA GGA TGT CTA AAT ATG AAA TGT GCT	PLVAFL_2_LEFT	CCA TGT CAG AGT ACA GAG AGT GC
PLVB1_2_RIGHT	TCT GCT GCA GTA GGA TAT GGC A	PLVAFL_2_RIGHT	TCC TAT TCC CAT TAT TTC TTC TGC AGT
PLVB1_3_LEFT	TAT GTC AGC TCC AGG ATG TGC T	PLVAFL_3_LEFT	CTG GGT GCG CTG CTG ATA AAA A
PLVB1_3_RIGHT	TTG TTT GAC ATC CTG AGG AGC AG	PLVAFL_3_RIGHT	TTC TTC AAG GGT ACT CTC TGG TCT
PLVB1_4_LEFT	TTA GAG CAG GAG CAC CAA GAG C	PLVAFL_4_LEFT	AGA TCA AGA ACA AGC ATC TGA TGA AGT
PLVB1_4_RIGHT	GCC ATA TGT CCA ATT TTT CCA CAG T	PLVAFL_4_RIGHT	GCT AGA TGT CCT GTT CCT CCA CA
PLVB1_5_LEFT	CTT GCA CAA GCG TTA CAA CAA GT	PLVAFL_5_LEFT	GGA CGA GGA TTA GGA CCT TTA AAT TGT
PLVB1_5_RIGHT	CAT TTA TCC AGG CCT CAA CAC GG	PLVAFL_5_RIGHT	TTC CTC CTA CTC CTT GCA TAT TTT GA
PLVB1_6_LEFT	CCC CCA GAG AAA TCA AAT GCA GG	PLVAFL_6_LEFT	AGA AGA AAG GCC TCA TTT GAT AAT AAG AGT
PLVB1_6_RIGHT	TCA TTG CCA TTA CCA TTC TTA TAC CTA GTT	PLVAFL_6_RIGHT	TTC TTG GCC CCT TAT CTG GAT CT
PLVB1_7_LEFT	AAT GGG ATG AGG TAT TCT AAT GTG CA	PLVAFL_7_LEFT	AGG AAG TGA GAT GTA TTT GTA ATG GAA GA
PLVB1_7_RIGHT	TGC ACC TCT GCT CCT TTC TCA G	PLVAFL_7_RIGHT	CTG CTG GGT GGG GTA AAC CTA A
PLVB1_8_LEFT	AGA TTA GAA AAG GAA GGA AAA GTA GGG A	PLVAFL_8_LEFT	AAG AAA TCT GGC AAA TGG AGG ATG TTA
PLVB1_8_RIGHT	ATA GAT CAA AGG ACT TAA AAG CCA CCC	PLVAFL_8_RIGHT	TCC ATT TTA CTG GAA TCA GAG CCT ATA T

PLVB1_9_LEFT	CCC CTT GGA TCC AGA TTA TCA ACC	PLVAFL_9_LEFT	GGT GTA GTT TAC CTC AAG GAT GGG
PLVB1_9_RIGHT	TTT GCT GTT TGA ATT TTC CAC CCA T	PLVAFL_9_RIGHT	CTC CTA CAT TTT GTG TGG CCC AA
PLVB1_10_LEFT	GTG AAG ACA CAT AGG AAA ATA GTT CAA GAA	PLVAFL_10_LEFT	AGA ACC TCC ATA TAA GTG GAT GGG A
PLVB1_10_RIGHT	TTC CAT TAG GCA GAT TTT CTA TAG CTT CT	PLVAFL_10_RIGHT	TCA TTC TTC CCA TCC ATA ATT GTC CT
PLVB1_11_LEFT	ATA GGA GGG TTG CCT ATT AAA AAT TTG AC	PLVAFL_11_LEFT	GGA CCC CTG AAG CAT TAG AAG AA
PLVB1_11_RIGHT	GTG GCT CTC TCC CCA ACC TAA T	PLVAFL_11_RIGHT	AAC ATT CTT GCC ATC ATT AAA GAG GC
PLVB1_12_LEFT	AAA CTT CCT TTA TGG TAT GGG AGA ATG A	PLVAFL_12_LEFT	ACC ATG TTC TAG AGA AAT TTG GGA ATC T
PLVB1_12_RIGHT	GCC ATT CCT GGT TAT TTT TCC ACC	PLVAFL_12_RIGHT	CAT CTT GCC AGA TAT CTG ATA AAG AAT CTG
PLVB1_13_LEFT	GAA AGA CAT TTA GCA TGT TTA ATG GAG GA	PLVAFL_13_LEFT	AGC TCT TCA AGA TGG ACC ATT AGA AA
PLVB1_13_RIGHT	ATT TCC TGG GAT GCC TCT GTG T	PLVAFL_13_RIGHT	TTT CCA ATG ATT AAT CCC CAA TGT CCT
PLVB1_14_LEFT	ATG GTA AGA GCA AGG CCA GAA C	PLVAFL_14_LEFT	AGA AGA TGC AGG ATA TGA TCT TTT AGC A
PLVB1_14_RIGHT	CCT CTG TAT CCT GAA TCT ATT ACT CCT CC	PLVAFL_14_RIGHT	ATG TGT GTC GCA TAA GCT CCT G
PLVB1_15_LEFT	CTT CCT TCA GAA ACA AGA AAA GTT CCT	PLVAFL_15_LEFT	AAA TTA GTA AAG GAC AAA AAG TAG CAC AGT
PLVB1_15_RIGHT	TCA TGC TCT ATT TCT GCC TGT TCT	PLVAFL_15_RIGHT	ACT ACT GCA AAC CCA GAA GTT GTT T
PLVB1_16_LEFT	TGC CAG TAC AGC ATG AAA TAT TGG A	PLVAFL_16_LEFT	TGG GCA ATT AAA GCT AGG TGA AGG
PLVB1_16_RIGHT	TGT CCA TAG TAA TCC TGA TTC CAC ATT	PLVAFL_16_RIGHT	ACC CCC TAA TCC ACC CTT TCT T
PLVB1_17_LEFT	GCA GAA TGA CAG GAA TAG GAA GTG G	PLVAFL_17_LEFT	TCC ACA ATC ACA AGC ATT

			AGT AGA AAA TT
PLVB1_17_RIGHT	GCT AAT GCT ACT GCT GCC TGT AA	PLVAFL_17_RIGHT	TTG CTC TCC TGT TCT GCC TGA T
PLVB1_18_LEFT	GGA AGG GTT AAC AGC ATT TTT AGG AA	PLVAFL_18_LEFT	ATG ATA AGT ATC TCC TTG TTC CTA GAA GG
PLVB1_18_RIGHT	AAA CTG AGC CTT CGC CCC AAT A	PLVAFL_18_RIGHT	CTG TCC CTG CAA CAC ATT CCT T
PLVB1_19_LEFT	TGG CAG GAA AAC AAC TTA ATA CAA CAA	PLVAFL_19_LEFT	CAG ATT GGA ATT AGA ACA CCC AGT TTA TG
PLVB1_19_RIGHT	CCT TCT ACC CAT CGC AAC TTT CT	PLVAFL_19_RIGHT	TCC TAA CCA TCC TGG AGG CCA T
PLVB1_2_LEFT	GCA GGA TGT CTA AAT ATG AAA TGT GCT	PLVAFL_20_LEFT	GGC CTT ATG CTA ATT GTT GGA TAT CAA
PLVB1_2_RIGHT	TCT GCT GCA GTA GGA TAT GGC A	PLVAFL_20_RIGHT	TCC ATC CAT ACT CTC CAT TGC CA
PLVB1_20_LEFT	AGG TAA GTG ATG CAA CCG TAC AG	PLVAFL_21_LEFT	GGA AGT GTA AGT CTC AAT GTA CAT TCC T
PLVB1_20_RIGHT	CTG ATA CCT GCC CTG TCC AGA T	PLVAFL_21_RIGHT	AGG CAC GCT CAC CTG CTT TAT A
PLVB1_21_LEFT	CCC ATA TGG AAA AGA TAC AGA CCT ACC T	PLVAFL_22_LEFT	TCA GAC AGC AGT ATT ACT TCA GCC
PLVB1_21_RIGHT	CAA GCG GTG TAA CTC TTC CGT C	PLVAFL_22_RIGHT	AGG CTA ATG TAA CTG CTT GAG CT
PLVB1_22_LEFT	TGT AGT TAG AAA TAC CCC AGC ATT CAC	PLVAFL_23_LEFT	TTG GAA GAC ACT GTT ATG CTT CTC AT
PLVB1_22_RIGHT	GCT GCA ACC TTC GAA TCC ACT T	PLVAFL_23_RIGHT	CCT AGT GGG CAT AAC TGG ATA TGT T
PLVB1_23_LEFT	AGT TCC ATC TAG TTG GGG CTT CT	PLVAFL_24_LEFT	CAG TGC AAA AAG GGA CCA AGA GA
PLVB1_23_RIGHT	ATA CCT TGG AGC ATG GGT TGG A	PLVAFL_24_RIGHT	TGA AAT CTT CCT CCT CCC CAC G
PLVB1_24_LEFT	CCT TGC AGC CTT AGG AGA GGA T	PLVAFL_25_LEFT	ACA CAG GTG CAA ATA AAT GTA ACT ATG AT

PLVB1_24_RIGHT	ACA GCA TTG ACC TTA CTT ATT GAT GAA G	PLVAFL_25_RIGHT	TCA TTC CTC TAC ATC TCA TCA CTT GGA
PLVB1_25_LEFT	GAA GCA GGT CAA ATA GTT AAA CAA TCC A	PLVAFL_26_LEFT	CAC AAC CAG AAT TTA TAG CTC CTT GC
PLVB1_25_RIGHT	CTC CAA GCA GAA TCG AAT GGG C	PLVAFL_26_RIGHT	GAA TTA TAT GCT CCC CAC ACC ACT C
PLVB1_26_LEFT	TGC CCC TTT TAA CTG GAC TTT TCA	PLVAFL_27_LEFT	TGG CAC ATT CTG GGT TTA TAA ATC AAA
PLVB1_26_RIGHT	ACC CTT TCT TCT GTA ATG TTG GTA GC	PLVAFL_27_RIGHT	GCA TCT TGC AGT CTC CTC TGA AC
PLVB1_27_LEFT	TGA CCA TTA GTC CTA TAC CTT ACT GGA	PLVAFL_28_LEFT	TGA CGG TAT CCA TGC GAC TCA A
PLVB1_27_RIGHT	TGG TGT GGT ATT GTT TGC ACA AGA	PLVAFL_28_RIGHT	GGA ACC AGG AAA ACC AAT CTA ACA C
PLVB1_28_LEFT	TGA TCA GAC ATC AAT CCT TTG CCA A	PLVAFL_29_LEFT	ATG GGG AGA TGG GCA GAA CAA G
PLVB1_28_RIGHT	GCC AAA ATT GTC CTT GTA ATG TAC ATG T	PLVAFL_29_RIGHT	AAA ACG GTC TTC CAG GTC TTG C
PLVB1_29_LEFT	CAT CGT AAT CAA TCA GAT GAT ATG CAA GT		
PLVB1_29_RIGHT	CTG CCA CCG AGG TCC CTA TTA A		
PLVB1_30_LEFT	GGG GCA TAT TCC TCA GCA ATA TGG		
PLVB1_30_RIGHT	ATC TTT GAA GGG ACA CAT TCC TCT T		
PLVB1_31_LEFT	AGG ATG CTG AAG CTA CTG CAG A		
PLVB1_31_RIGHT	TGG TGC CAG CAT TAT TCC TAT TAT CC		