

**Supplemental Figure 5.** List of 403 individual animals sequenced in the population genetic study.

Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
<b>Chezzetcook</b>	NS88-02CS	GGAGGTG	GTTTAAG	1.000	<b>C4</b>	<b>S1</b>	C4S1
<b>NOVA SCOTIA</b>	NS88-03CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
[n=26]	NS88-04CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS296-03SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS296-07CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS296-08CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS296-09CS	GGAGGTG	GTTTAAG	1.000	<b>C4</b>	<b>S1</b>	C4S1
	NS296-11CS	GGAGGTG	GTTTAAG	1.000	<b>C4</b>	<b>S1</b>	C4S1
	NS296-12CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-4CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-5CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-6CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-7CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-8CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-9SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	Hal1-10CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-11CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-12CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-14CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-15CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-16CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-17CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-19CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-20CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	Hal1-21SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	Hal1-23CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
<b>Peggy's Cove</b>	NS299-1SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
<b>NOVA SCOTIA</b>	NS299-3SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
[n=9]	NS299-4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS299-5SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS299-6SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS299-8SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS299-9SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS299-10SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS299-11SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
<b>Mahone Bay</b>	NS293-1CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>NOVA SCOTIA</b>	NS293-2CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
[n=19]	NS293-3CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-7CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-8CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-9CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-10CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS293-11CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1

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Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
	NS294-1CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS294-2CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS294-4CC	GGAGGTC	GGAGGTG	1.000	<b>C1</b>	<b>C4</b>	C1C4
	NS294-5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS294-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS294-7CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS294-9CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS294-10CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>Crescent</b>	NS291-3CS	GGAGGTG	GTTTAAG	1.000	<b>C4</b>	<b>S1</b>	C4S1
<b>Beach</b>	NS291-4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>NOVA SCOTIA</b>	NS291-5CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
[n=16]	NS291-6CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-7CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-8CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-10CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-11CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-12CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-13CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-15CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-17CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-18CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-19CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS291-20CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
	NS291-21CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
<b>Noel</b>	NS298-1CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>NOVA SCOTIA</b>	NS298-2CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
[n=10]	NS298-3CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS298-4SS	GTTTAAG	GTTTAAG	1.000	<b>S1</b>	<b>S1</b>	S1S1
	NS298-5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS298-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS298-7CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS298-8CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS298-9CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	NS298-10CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>Kingsport</b>	KNG1-1CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>NOVA SCOTIA</b>	KNG1-2CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
[n=35]	KNG1-3CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-4CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	KNG1-6CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-7CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-8CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-9CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-11CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-12CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	KNG1-13CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2

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Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
	KNG2-1CC	GGAGGTC	AGAGGTC	1.000	C1	C2	C1C2
	KNG2-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG2-5CC	GGAGGTC	AGAGGTC	1.000	C1	C2	C1C2
	KNG2-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG2-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG2-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG2-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-3CC	GGAGGTC	AGAGGTC	1.000	C1	C2	C1C2
	KNG3-4CC	GGAGGTC	AGAGGTC	1.000	C1	C2	C1C2
	KNG3-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	KNG3-14CC	GGAGGTC	GGAGGTG	1.000	C1	C4	C1C4
	NSC1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NSC2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NSC3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NSC4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NSC6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NSC9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Odiorne Point</b>	OD1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>NEW HAMPSHIRE</b>	OD2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=12]	OD3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD04-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD04-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD04-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD04-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD04-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	OD04-14CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Rye Harbor</b>	RH4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>NEW HAMPSHIRE</b>	RH5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=6]	RH6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	RH7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	RH9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	RH10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Wallis Sands</b>	WS1-1-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>NEW HAMPSHIRE</b>	WS1-1-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=21]	WS1-1-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1

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	WS1-1-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-12CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-16CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-17CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-18CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-19CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-1-20CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-2-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-2-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-2-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-2-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS1-2-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS2-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS2-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	WS2-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Crane</b>	Cr4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>MASSACHUSETTS</b>	Cr04-0CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=12]	Cr04-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-12CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-13CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Cr04-14	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Neponset</b>	Ne04-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>MASSACHUSETTS</b>	Ne04-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=23]	Ne04-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-12CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-14CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-16CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-17CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-18CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-19CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-20CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-21CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-22CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-23CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-24CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1

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	Ne04-25CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-26CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-27CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-29CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Ne04-30CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Pocasset</b>	Po3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>MASSACHUSETTS</b>	Po5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=15]	Po6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po12CC	GGAGGTC	AGAGGTC	1.000	C1	C2	C1C2
	Po13CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po14CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po15CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po16CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po17CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po21CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Po22CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Sippewisset</b>	Si1-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>MASSACHUSETTS</b>	Si1-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=49]	Si4-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-14CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-2-17CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-3-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-3-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-3-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si4-3-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si13-15CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1

**Supplemental Figure 5.** List of 403 individual animals sequenced in the population genetic study.

Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
	Si14-12CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-13CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-14CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si14-15CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-1CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-12CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-13CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-14CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si15-15CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Si16-1CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Si16-2CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Si16-3CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Si16-8CS	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Meadowlands</b>	NJ2CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>NEW JERSEY</b>	NJ3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
[n=8]	NJ1-4CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NJ1-5CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NJ1-8CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NJ1-9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NJ1-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	NJ1-11CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
<b>Rhode River</b>	Rh1CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
<b>MARYLAND</b>	Rh3SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
[n=61]	Rh5SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh6CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh8CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh9CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh11CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh12CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh13CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh14SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh15SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh16CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh17CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh18CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1

**Supplemental Figure 5.** List of 403 individual animals sequenced in the population genetic study.

Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
	Rh19CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh21CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh23CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh24CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-1SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh1-2CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-3CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-6CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-7CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-8CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-9SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh1-10CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-11CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-13CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-14CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-15CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-17CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-18CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-19SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh1-20CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-21CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-23CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-24CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-27CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-28SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh1-30CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-31CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-32CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-33CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-34CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-35CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-36CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-37CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-38CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-39SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh1-40CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-41CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-43SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1
	Rh1-44CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-47CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-49CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-52CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-53CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-54CC	GGAGGTC	GGAGGTC	1.000	C1	C1	C1C1
	Rh1-58CS	GGAGGTC	GTTTAAG	1.000	C1	S1	C1S1
	Rh1-60SS	GTTTAAG	GTTTAAG	1.000	S1	S1	S1S1

**Supplemental Figure 5.** List of 403 individual animals sequenced in the population genetic study.

Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
<b>Baruch</b>	Ba1a3CC	GGAGGTC	AGAGGTG	0.970	<b>C1</b>	<b>C3</b>	C1C3
<b>SOUTH</b>	Ba1a4CC	AGAGGTG	AGAGGTG	1.000	<b>C3</b>	<b>C3</b>	C3C3
<b>CAROLINA</b>	Ba1a5CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
[n=23]	Ba1a6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba1a8CC	AGAGGTG	AGAGGTG	1.000	<b>C3</b>	<b>C3</b>	C3C3
	Ba1a9CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba1a10CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba1a11CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba1a13CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba1a14CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba1a15CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba1a16CC	GGAGGTC	AGAGGTG	0.970	<b>C1</b>	<b>C3</b>	C1C3
	Ba1a17CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba1a18CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba1a19CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba1c1CC	GGAGGTC	AGAGGTG	0.970	<b>C1</b>	<b>C3</b>	C1C3
	Ba1c2CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba2-2CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba2a4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba2a5CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba2b1CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	Ba2b2CC	GGAGGTC	AGAGGTG	0.969	<b>C1</b>	<b>C3</b>	C1C3
	Ba2c6CC	GGAGGTC	AGAGGTG	0.970	<b>C1</b>	<b>C3</b>	C1C3
<b>San Juan</b>	SJ1-4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>WASHINGTON</b>	SJ1-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
[n=12]	SJ1-7CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ2-4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ2-5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ2-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ2-7CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ3-4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ3-5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ3-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ3-8CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	SJ25-3CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>Coos Bay, OR</b>	Co3CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>San Francisco</b>	CABC1CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>CALIFORNIA</b>	CABC2CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
[n=5]	CABC3CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	CABC4CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	CABC5CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
<b>Humboldt Bay</b>	CASM1CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
<b>CALIFORNIA</b>	CASM3CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1
[n=8]	CASM9CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	CASM11CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	CASM13CS	GGAGGTC	GTTTAAG	1.000	<b>C1</b>	<b>S1</b>	C1S1



**Supplemental Figure 5.** List of 403 individual animals sequenced in the population genetic study.

Collection Site	Individual	Allele 1 SNPs	Allele 2 SNPs	Prob.	Allele 1	Allele 2	Genotype
	CB5CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	CC2-6CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
	CD2CC	GGAGGTC	GGAGGTC	1.000	<b>C1</b>	<b>C1</b>	C1C1
<b>Gilkicker</b>	Gi1CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
<b>UK</b>	Gi3CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
[n=9]	Gi4CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Gi5CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Gi6CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Gi7CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Gi8CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Gi10CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Gi11CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
<b>Near Salterns</b>	NrS1CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
<b>UK</b>	NrS2CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
[n=14]	NrS3CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS4CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS5CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS6CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS7CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS8CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS9CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS10CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS11CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS13CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS14CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	NrS15CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
<b>Salterns</b>	Sa1CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
<b>UK</b>	Sa3CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
[n=9]	Sa4CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Sa5CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Sa6CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Sa7CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Sa8CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Sa9CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	Sa10CC	GGAGGTC	AGAGGTC	1.000	<b>C1</b>	<b>C2</b>	C1C2
	<b>TOTALS</b>	<b>Allele</b>	<b>#</b>	<b>Freq</b>	<b>Geno</b>	<b>#</b>	<b>Freq</b>
		<b>C1</b>	618	0.77	<b>C1C1</b>	244	0.605
		<b>C2</b>	47	0.06	<b>C1C2</b>	47	0.117
		<b>C3</b>	18	0.02	<b>C1C3</b>	14	0.035
		<b>C4</b>	6	0.01	<b>C1C4</b>	2	0.005
		<b>S1</b>	117	0.15	<b>C3C3</b>	2	0.005
		<b>ALL</b>	<b>806</b>		<b>C1S1</b>	67	0.166
					<b>C4S1</b>	4	0.010
		389			<b>S1S1</b>	23	0.057
		0.9652605			<b>ALL</b>	<b>403</b>	