

Appendix I. Samples used in the present analysis of walrus stock identities. Harvest samples were muscle, biopsies were skin. Communities where harvested walrus were landed are in **bold**. Other locations are biopsy sites. Map key is the designation of sample sites other than communities shown on Figures 2a and 2b.

Stock (sample size)	Community / Location (map key)	Year	Source	N
Baffin Bay (N = 15)				
Map 2a	Grise Fiord	1996	Harvest	8
	Grise Fiord	1998	Harvest	2
	Grise Fiord	1999	Harvest	4
	Grise Fiord	2006	Harvest	1
West Jones Sound (N=36)				
Map 2a	Borgen (1)	2004	Biopsy	1
	Clement Ugli (2)	2004	Biopsy	9
	Clement Ugli (2)	2006	Biopsy	2
	Norfolk Inlet (3)	2003	Biopsy	1
	Norfolk Inlet (3)	2004	Biopsy	3
	Norfolk Inlet (3)	2006	Biopsy	5
	West Channel (4)	2006	Biopsy	14
Penny Strait - Lancaster Sound (N = 121)				
Map 2a	Village Bay (A)	2004	Biopsy	8
	Barrow Harbour (B)	2003	Biopsy	1
	Barrow Harbour (B)	2006	Biopsy	2
	Dyer Island (C)	2007	Biopsy	10
	Bailie Hamilton Island (E)	2007	Biopsy	8
	Margaret Island (D)	2006	Biopsy	4
	Margaret Island (D)	2007	Biopsy	4
	Houston Stewart Island (F)	2007	Biopsy	8
	Brooman Point (G)	1993	Biopsy	6
	Resolute Bay	1992	Harvest	5
	Resolute Bay	1996	Harvest	4
	Resolute Bay	1998	Harvest	1
	Kearney Cove (H)	2003	Biopsy	8
	Kearney Cove (H)	2005	Biopsy	7
	Kearney Cove (H)	2007	Biopsy	7
	Ryder Inlet (I)	2006	Biopsy	5
	Graham Harbour (J)	2006	Biopsy	2
	NoName Bay (K)	2006	Biopsy	8
	Blanley Bay (L)	2007	Biopsy	5
	Cumming Inlet (M)	2006	Biopsy	6

	Cumming Inlet (M)	2007	Biopsy	11
	Pond Inlet	1983	Harvest	1
Northern Foxe Basin (N = 210)				
Map 2b	Igloodik	1983	Harvest	28
	Igloodik	1984	Harvest	27
	Igloodik	1987	Harvest	14
	Igloodik	1988	Harvest	16
	Igloodik	1992	Harvest	22
	Igloodik	1993	Harvest	21
	Igloodik	1996	Harvest	25
	Igloodik	2004	Harvest	38
	Igloodik	2005	Harvest	41
	Igloodik	2007	Harvest	5
Central Foxe Basin (N = 139)				
Map 2b	Hall Beach	1988	Harvest	22
	Hall Beach	1991	Harvest	45
	Hall Beach	1992	Harvest	26
	Hall Beach	1993	Harvest	14
	Hall Beach	2000	Harvest	12
	Hall Beach	2004	Harvest	13
	Hall Beach	2007	Harvest	7
Hudson Bay - Davis Strait (N = 76)				
Map 2b	Repulse Bay	1998	Harvest	7
	Coral Harbour	1997	Harvest	16
	Coral Harbour	1998	Harvest	4
	Coral Harbour	1999	Harvest	4
	Cape Dorset	1998	Harvest	6
	Pangnirtung	1999	Harvest	2
	Hoare Bay (N)	2007	Biopsy	37
Total				596
	Harvest			414
	Biopsy			182

Appendix II. PCR parameters provided are the time in seconds (S) and temperature (°C) for each stage of the PCR. Between 33 and 35 cycles were conducted and are noted within each reaction. When within stage temperature changes occurred, the number of cycles for each temperature is provided.

Primers	Denaturation	Annealing	Extension
Orr7+Orr23	30S at 94°C	60S at 55°C	5S at 72°C (3X) 1S at 72°C (30X)
Orr9+Orr16	30S at 94°C	60S at 48°C	5S at 72°C (3X) 1S at 72°C (30X)
Orr3+Orr11	30S at 94°C	60S at 55°C	5S at 72°C (3X) 1S at 72°C (30X)
Orr24	30S at 94°C	60S at 48°C	5S at 72°C (3X) 1S at 72°C (30X)
SGPV9	30S at 93°C	60S at 56.5°C (7X) 60S at 58.5°C (28X)	30S at 72°C
Hg3.6	30S at 94°C	60S at 60°C	5S at 72°C (3X) 1S at 72°C (30X)
Hg6.1	30S at 93°C	60S at 50°C (7X) 60S at 52.1°C (28X)	30S at 72°C
HgDii	30S at 93°C	60S at 56.5°C (7X) 60S at 58.5°C (28X)	30S at 72°C