

Table S2

Species	High-coverage ID	Lab ID PB_#	Collection ID	Institution
<i>Ursus arctos</i>	ABC01	ABC01	UAM Mammals 43157	UAM
<i>Ursus arctos</i>	ABC02	ABC02	UAM Mammals 56159	UAM
<i>Ursus arctos</i>	ABC03	ABC03	UAM Mammals 63855	UAM
<i>Ursus arctos</i>	ABC04	ABC04	UAM Mammals 63856	UAM
<i>Ursus arctos</i>	ABC05	ABC05	UAM Mammals 63863	UAM
<i>Ursus arctos</i>	ABC06	ABC06	UAM Mammals 63864	UAM
<i>Ursus arctos</i>	GP01	GP01	107596012	NA
<i>Ursus arctos</i>	OFS01	OFS01	20105434	NRM
<i>Ursus arctos</i>	RF01	RF01	7429	FGFI
<i>Ursus arctos</i>	SJS01	SJS01	20105373	NRM
<i>Ursus maritimus</i>	BB01	PB105	36639	GINR
<i>Ursus maritimus</i>	BB02	PB43	32698	AU
<i>Ursus maritimus</i>	BB03	PB22	35506	AU
<i>Ursus maritimus</i>	BB04	PB42	35528	AU
<i>Ursus maritimus</i>	BB05	PB45	35526	AU
<i>Ursus maritimus</i>	BB06	PB47	35533	AU
<i>Ursus maritimus</i>	EG01	PB89	36611	GINR
<i>Ursus maritimus</i>	EG02	PB28	39869	AU
<i>Ursus maritimus</i>	EG03	PB3	36628	GINR
<i>Ursus maritimus</i>	EG04	PB36	39860	AU
<i>Ursus maritimus</i>	EG05	PB7	36625	GINR
<i>Ursus maritimus</i>	EG06	PB33	39859	AU
<i>Ursus maritimus</i>	KB01	PB10	35508	AU
<i>Ursus maritimus</i>	KB02	PB12	35510	AU

<i>Ursus maritimus</i>	KB03	PB62	32690	AU
<i>Ursus maritimus</i>	KB04	PB79	32684	AU
<i>Ursus maritimus</i>	KB05	PB68	35511	AU
<i>Ursus maritimus</i>	KB06	PB72	32685	AU
<i>Ursus maritimus</i>	-	PB59	42257	AU
<i>Ursus maritimus</i>	-	PB61	39476	AU
<i>Ursus maritimus</i>	-	PB66	35558	AU
<i>Ursus maritimus</i>	-	PB6	36623	GINR
<i>Ursus maritimus</i>	-	PB56	39480	AU
<i>Ursus maritimus</i>	-	PB64	32687	AU
<i>Ursus maritimus</i>	-	PB74	1322	AU
<i>Ursus maritimus</i>	-	PB55	42252	AU
<i>Ursus maritimus</i>	-	PB57	39482	AU
<i>Ursus maritimus</i>	-	PB78	35513	AU
<i>Ursus maritimus</i>	-	PB53	42255	AU
<i>Ursus maritimus</i>	-	PB75	35562	AU
<i>Ursus maritimus</i>	-	PB52	42259	AU
<i>Ursus maritimus</i>	-	PB50	35517	AU
<i>Ursus maritimus</i>	-	PB81	32691	AU
<i>Ursus maritimus</i>	-	PB17	39720	AU
<i>Ursus maritimus</i>	-	PB60	39481	AU
<i>Ursus maritimus</i>	-	PB69	35502	AU
<i>Ursus maritimus</i>	-	PB2	36629	GINR
<i>Ursus maritimus</i>	-	PB87	36609	GINR
<i>Ursus maritimus</i>	-	PB8	36621	GINR
<i>Ursus maritimus</i>	-	PB24	32688	AU
<i>Ursus maritimus</i>	-	PB76	1323	AU
<i>Ursus maritimus</i>	-	PB49	35525	AU
<i>Ursus maritimus</i>	-	PB46	35527	AU
<i>Ursus maritimus</i>	-	PB9	36624	GINR
<i>Ursus maritimus</i>	-	PB14	35507	AU
<i>Ursus maritimus</i>	-	PB51	35516	AU
<i>Ursus maritimus</i>	-	PB106	36645	GINR
<i>Ursus maritimus</i>	-	PB18	39734	AU
<i>Ursus maritimus</i>	-	PB15	39732	AU
<i>Ursus maritimus</i>	-	PB31	39861	AU
<i>Ursus maritimus</i>	-	PB83	36603	GINR
<i>Ursus maritimus</i>	-	PB71	35539	AU
<i>Ursus maritimus</i>	-	PB104	36615	GINR

<i>Ursus maritimus</i>	-	PB20	39731	AU
<i>Ursus maritimus</i>	-	PB1	36620	GINR
<i>Ursus maritimus</i>	-	PB48	32693	AU
<i>Ursus maritimus</i>	-	PB54	42253	AU
<i>Ursus maritimus</i>	-	PB86	36608	GINR
<i>Ursus maritimus</i>	-	PB90	36612	GINR
<i>Ursus maritimus</i>	-	PB44	39479	AU
<i>Ursus maritimus</i>	-	PB19	35518	AU
<i>Ursus maritimus</i>	-	PB26	39868	AU
<i>Ursus maritimus</i>	-	PB21	35505	AU
<i>Ursus maritimus</i>	-	PB5	36632	GINR
<i>Ursus maritimus</i>	-	PB29	39874	AU
<i>Ursus maritimus</i>	-	PB27	39870	AU
<i>Ursus maritimus</i>	-	PB32	39858	AU
<i>Ursus maritimus</i>	-	PB13	32686	AU
<i>Ursus maritimus</i>	-	PB37	39862	AU
<i>Ursus maritimus</i>	-	PB58	39478	AU
<i>Ursus maritimus</i>	-	PB4	36622	GINR
<i>Ursus maritimus</i>	-	PB35	39863	AU
<i>Ursus maritimus</i>	-	PB30	39867	AU
<i>Ursus maritimus</i>	-	PB38	39864	AU
<i>Ursus maritimus</i>	-	PB34	39866	AU
<i>Ursus maritimus</i>	-	PB39	39872	AU
<i>Ursus maritimus</i>	-	PB40	39873	AU
<i>Ursus maritimus</i>	-	PB11	35509	AU
<i>Ursus maritimus</i>	-	PB25	39871	AU

GINR: Greenland Institute of Natural Resources

AU: Aarhus University, Faculty of Science and Technology, Department of Bioscience

UAM: University of Alaska Museum of the North Mammal Collection

NRM: Swedish Museum of Natural History

FGFI: Finnish Game and Fisheries Institute

Country/Region	District	Locality	LAT	LON	Sex
Alaska, USA	Alexander Archipelago, Baranof Island	Ford Arm	57.569	-135.96	NA
Alaska, USA	Alexander Archipelago, Baranof Island	Baranof Lake / Salmon Lake	57.0833	-134.85	NA
Alaska, USA	Alexander Archipelago, Chichagof Island	N Shore of Tenakee Inlet	57.7833	-134.95	NA
Alaska, USA	Alexander Archipelago, Chichagof Island	Saltery Bay, Tenakee Inlet	57.7667	-135.42	NA
Alaska, USA	Alexander Archipelago, Chichagof Island	Between Whitestone Harbor and Freshwater Bay	58	-135	NA
Alaska, USA	Alexander Archipelago, Admiralty Island	South arm of Hood Bay	57.4333	-134.55	NA
Montana, USA	-	Glacier Park	NA	NA	NA
Southern Sweden	-	Östanvik, Furudal	NA	NA	F
Finland	-	Ruokolahti	NA	NA	F
Northern Sweden	-	Slakka, Jokkmokk	NA	NA	F
West Greenland	Aasiaat	Disko West	NA	NA	F
West Greenland	Indre Melville Bugt	Qaanaq	NA	NA	F
West Greenland	Melville Bugt	Qaanaq	NA	NA	M
West Greenland	Melville Bugt	Qaanaq	NA	NA	M
West Greenland	Melville Bugt	Qaanaq	NA	NA	M
West Greenland	Ud for Savissivik	Qaanaq	NA	NA	M
East Greenland	NA	NA	NA	NA	F
East Greenland	Uunartoq	Ittorqortoormiut	NA	NA	F
East Greenland	NA	Ittoqqortoormiit	NA	NA	F
East Greenland	Kap Hope	Ittorqortoormiut	NA	NA	F
East Greenland	NA	Ittoqqortoormiit	NA	NA	F
East Greenland	Ml K. Steward og K Hope	Ittorqortoormiut	NA	NA	F
West Greenland	Cap Perry	Qaanaq	NA	NA	M
West Greenland	Iskanten Hvalsund	Qaanaq	NA	NA	F

West Greenland	Ikeq	Qaanaq	NA	NA F
West Greenland	Iskanten Anoritooq	Qaanaq	NA	NA M
West Greenland	Ud for Anoritooq	Qaanaq	NA	NA F
West Greenland	Smith Sund	Qaanaq	NA	NA M
West Greenland	Avanersuaq	Savissiviup Innaanqarnulu	NA	NA M
West Greenland	Qaanaaq	Savissivik	NA	NA M
West Greenland	Qaanaaq	Kane Bassin	NA	NA M
East Greenland	Ittoqqortoormiit	NA	NA	NA M
West Greenland	Qaanaaq	Narsaarsuup Eqqaani	NA	NA M
West Greenland	Qaanaaq	Qaqqaitsut	NA	NA M
West Greenland	Qaanaaq	Sv på Herbert Ø	NA	NA NA
West Greenland	Avanersuaq	Kap York	NA	NA M
West Greenland	Qaanaaq	Qegetapalup oa Saani	NA	NA M
West Greenland	Qaanaaq	Ud for Humbolt Glet.	NA	NA M
West Greenland	Avanersuaq	Savissiviup Eqqaani	NA	NA M
West Greenland	Qaanaaq	Kane Bassin	NA	NA M
West Greenland	Avanersuaq	Salliup Avataani	NA	NA M
West Greenland	Qaanaaq	Innanganeq	NA	NA M
West Greenland	Qaanaaq	Ikeq	NA	NA NA
West Greenland	Avanersuaq	Thule	NA	NA NA
West Greenland	Qaanaaq	Innaarranngup samani	NA	NA M
West Greenland	Qaanaaq	Cap Perry	NA	NA F
East Greenland	Ittoqqortoormiit	NA	NA	NA F
East Greenland	NA	NA	NA	NA M
East Greenland	Ittoqqortoormiit	NA	NA	NA F
West Greenland	Qaanaaq	Serfat	NA	NA M
West Greenland	Qaanaaq	2 km vf Kiataq	NA	NA NA
West Greenland	Qaanaaq	Melville Bugt	NA	NA F
West Greenland	Qaanaaq	Melville Bugt	NA	NA M
East Greenland	Ittoqqortoormiit	NA	NA	NA M
West Greenland	NA	Ikeq	NA	NA F
West Greenland	Qaanaaq	Savissivik	NA	NA M
West Greenland	Disko West	Aasiaat	NA	NA M
West Greenland	Avanersuaq	Thule	NA	NA NA
West Greenland	Avanersuaq	Thule	NA	NA NA
East Greenland	Ittoqqortoormiit	Ittorqortoormiut	NA	NA M
East Greenland	NA	NA	NA	NA M
West Greenland	Qaanaaq	Nugssuaq	NA	NA M
West Greenland	NA	NA	NA	NA F

West Greenland	Avanersuaq	Thule	NA	NA NA
East Greenland	NA	NA	NA	NA M
West Greenland	Qaanaaq	Savissiviup avatani	NA	NA NA
West Greenland	Avanersuaq	SW for Savissivik	NA	NA F
East Greenland	NA	NA	NA	NA M
East Greenland	NA	NA	NA	NA F
West Greenland	Qaanaaq	Qaanaq	NA	NA M
East Greenland	Ittoqqortoormiit	NA	NA	NA F
East Greenland	Ittoqqortoormiit	Kap Tobin	NA	NA M
West Greenland	Qaanaaq	NA	NA	NA M
East Greenland	Ittoqqortoormiit	NA	NA	NA M
East Greenland	Ittoqqortoormiit	Sikup Sinaa	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Tobin	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Tobin	NA	NA M
West Greenland	Qaanaaq	Iskanten Anoritooq	NA	NA M
East Greenland	Ittoqqortoormiit	Ittorqortoormiut	NA	NA M
West Greenland	Qaanaaq	Savissivik	NA	NA M
East Greenland	Ittoqqortoormiit	NA	NA	NA M
East Greenland	Ittoqqortoormiit	Uunartoq	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Tobin	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Yobin	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Tobin	NA	NA M
East Greenland	Ittoqqortoormiit	iskant	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Brewster	NA	NA M
West Greenland	Qaanaaq	Inuarfissuaq	NA	NA M
East Greenland	Ittoqqortoormiit	Kap Swainson	NA	NA M

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Raw reads data (Gbp)	Mapped reads data (Gbp)	%age mapped reads	%age coverage	Average depth (X)
62.04	33.24	53.6	96.4	20.0
57.53	42.44	73.8	96.3	18.4
60.75	44.08	72.6	96.4	19.6
60.71	42.30	69.7	96.3	18.8
70.56	51.55	73.1	96.4	22.4
61.69	44.89	72.8	96.3	19.5
59.83	37.71	63.0	96.3	16.8
80.77	52.60	65.1	96.3	22.8
68.63	48.13	70.1	96.3	20.9
66.95	34.98	52.2	95.9	15.2
77.30	60.26	78.0	96.7	26.2
73.85	54.22	73.4	96.7	23.5
60.27	47.25	78.4	96.7	21.0
60.03	46.99	78.3	96.7	20.9
65.61	50.48	76.9	96.7	22.4
68.33	51.94	76.0	96.8	23.1
69.53	54.88	78.9	96.7	23.8
76.24	57.62	75.6	96.6	25.0
80.08	55.66	69.5	96.6	24.2
43.92	34.38	78.3	96.5	14.9
74.03	58.57	79.1	96.7	25.5
49.59	39.03	78.7	96.6	17.0
74.21	55.28	74.5	96.8	24.6
75.07	59.89	79.8	96.7	26.0

69.66	54.30	77.9	96.7	23.6
72.04	54.75	76.0	96.8	24.3
76.78	60.11	78.3	96.7	26.1
63.76	49.60	77.8	96.7	22.0
4.11	3.46	84.2	62.3	1.7
4.20	3.54	84.2	61.7	1.7
4.23	3.57	84.4	63.1	1.8
4.28	3.60	84.0	60.9	1.8
4.16	3.60	86.6	67.6	1.8
4.29	3.60	84.0	61.9	1.8
4.28	3.64	85.1	69.4	1.8
4.23	3.69	87.1	68.7	1.8
4.42	3.78	85.5	69.5	1.9
4.42	3.80	85.8	65.9	1.9
4.41	3.83	86.7	68.4	1.9
4.56	3.96	86.8	70.6	1.9
4.59	3.96	86.2	68.4	1.9
4.62	3.98	86.1	69.0	2.0
6.82	5.54	81.2	81.3	2.7
6.96	5.69	81.8	83.4	2.8
6.49	5.77	88.9	84.1	2.8
6.63	5.79	87.4	84.2	2.8
6.82	5.82	85.3	83.6	2.9
7.30	5.90	80.8	81.7	2.9
7.22	6.09	84.4	84.4	3.0
7.05	6.27	89.0	85.7	3.1
7.70	6.28	81.6	85.9	3.1
7.17	6.28	87.7	80.4	3.1
7.75	6.40	82.6	84.5	3.1
7.77	6.47	83.2	85.5	3.2
8.03	6.61	82.3	85.7	3.2
7.50	6.65	88.7	85.8	3.3
8.40	6.76	80.5	84.7	3.3
8.51	6.83	80.2	66.7	3.3
7.70	6.87	89.3	86.1	3.4
8.35	7.19	86.2	88.1	3.5
9.15	7.34	80.2	87.2	3.6
8.66	7.48	86.3	85.6	3.7
9.76	7.82	80.1	85.2	3.8

10.35	7.98	77.1	84.8	3.9
9.73	8.02	82.4	82.3	3.9
10.05	8.05	80.1	83.1	3.9
10.54	8.53	80.9	88.3	4.2
10.77	8.58	79.7	85.6	4.2
11.03	8.71	78.9	82.0	4.3
11.00	8.74	79.4	83.3	4.3
11.04	8.79	79.6	83.3	4.3
11.10	8.89	80.1	86.7	4.4
11.36	8.93	78.6	86.2	4.4
10.81	8.93	82.6	83.3	4.4
10.81	9.08	84.0	90.1	4.4
11.77	9.31	79.1	85.6	4.6
11.21	9.32	83.2	90.9	4.6
11.00	9.51	86.5	89.9	4.7
11.18	9.53	85.2	91.7	4.7
13.18	9.64	73.2	85.5	4.7
11.40	9.65	84.7	91.8	4.7
11.69	9.78	83.7	91.4	4.8
11.66	9.85	84.4	86.3	4.8
11.66	9.89	84.9	91.9	4.8
11.96	10.04	84.0	91.0	4.9
11.96	10.17	85.1	92.2	5.0
15.13	12.23	80.8	85.7	6.0
16.74	14.14	84.4	94.3	6.9
20.01	16.26	81.2	93.8	8.0
