

Supplementary Table 5. Details of all sequencing samples in this study

List	ID	Breed	Organism	Sex	Tissue	Sequencing	geo_loc_name_country	geo_loc_name_country_continent	geo_loc_name
1	DBC	Alashan	Camelus bactrianus	male	blood	Hifi, ONT, Hi-C, NGS	China	Asia	China:Inner Mongolia
2	1	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
3	2	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
4	3	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
5	5	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
6	7	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
7	12	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
8	13	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
9	15	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
10	17	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
11	18	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
12	19	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
13	20	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
14	21	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
15	22	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
16	25	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
17	27	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
18	28	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
19	29	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
20	30	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
21	31	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
22	32	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
23	33	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
24	34	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
25	35	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
26	37	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
27	38	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
28	39	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
29	41	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
30	42	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
31	43	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
32	45	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
33	46	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
34	47	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
35	48	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
36	49	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
37	50	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
38	51	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
39	54	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
40	55	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
41	60	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
42	61	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
43	62	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
44	66	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
45	67	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
46	68	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
47	69	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
48	72	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
49	73	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
50	74	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
51	75	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
52	77	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia
53	78	Alashan	Camelus bactrianus	female	ear	NGS	China	Asia	China:Inner Mongolia

130	263	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
131	268	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
132	270	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
133	272	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
134	273	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
135	280	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
136	308	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
137	310	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Monoolia
138	333	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
139	341	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
140	349	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
141	355	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
142	366	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
143	367	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
144	369	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
145	372	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
146	373	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
147	376	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
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149	378	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
150	379	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
151	381	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Monoolia
152	384	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
153	386	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
154	387	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
155	388	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
156	390	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
157	391	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
158	392	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
159	393	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Monoolia
160	394	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
161	395	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
162	396	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Monoolia
163	397	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
164	442A	Alashan	Camelus bactrianus	male	ear	NGS		China	Asia	China:Inner Mongolia
165	444gaoA	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
166	AdanA	Dromedary	Camelus dromedarius	female	ear	NGS				
167	algaa441A	Alashan	Camelus bactrianus	female	ear	NGS		China	Asia	China:Inner Mongolia
168	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
169	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
170	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Monoolia
171	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
172	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
173	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Monoolia
174	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
175	'DSW22025250	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
176	'DSW22025251	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Mongolia
177	'DSW22025251	Gobi Red	Camelus bactrianus	female	blood	NGS		China	Asia	China:Inner Monoolia
178	'DSW22025251	Gobi Red	Camelus bactrianus	male	blood	NGS		China	Asia	China:Inner Mongolia

262	SRR5563611	Qinghai	Camelus bactrianus	male	blood	NGS	China	Asia	China:Qinghai
263	SRR5563612	Qinghai	Camelus bactrianus	female	blood	NGS	China	Asia	China:Qinghai
264	SRR5563613	Qinghai	Camelus bactrianus	female	blood	NGS	China	Asia	China:Qinghai
265	SRR5563614	Qinghai	Camelus bactrianus	male	blood	NGS	China	Asia	China:Qinghai
266	SRR5563505	Sonid	Camelus bactrianus	female	blood	NGS	China	Asia	China:Inner Mongolia
267	SRR5563506	Sonid	Camelus bactrianus	male	blood	NGS	China	Asia	China:Inner Mongolia
268	SRR5563507	Sonid	Camelus bactrianus	male	blood	NGS	China	Asia	China:Inner Mongolia
269	SRR5563508	Sonid	Camelus bactrianus	male	blood	NGS	China	Asia	China:Inner Mongolia
270	SRR5563509	Sonid	Camelus bactrianus	female	blood	NGS	China	Asia	China:Inner Mongolia
271	SRR5563510	Sonid	Camelus bactrianus	female	blood	NGS	China	Asia	China:Inner Mongolia
272	SRR5563511	Sonid	Camelus bactrianus	female	blood	NGS	China	Asia	China:Inner Mongolia
273	SRR5563512	Sonid	Camelus bactrianus	male	blood	NGS	China	Asia	China:Inner Mongolia
274	SRR5563513	Sonid	Camelus bactrianus	female	blood	NGS	China	Asia	China:Inner Mongolia
275	SRR5563514	Sonid	Camelus bactrianus	male	blood	NGS	China	Asia	China:Inner Mongolia
276	SRR5563565	Tarim	Camelus bactrianus	male	ear	NGS	China	Asia	China:Xinjiang
277	SRR5563566	Tarim	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
278	SRR5563567	Tarim	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
279	SRR5563568	Tarim	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
280	SRR5563594	Tarim	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
281	SRR5563523	Tokhom-tungalag	Camelus bactrianus	male	ear	NGS	Mongolia	Asia	Mongolia
282	SRR5563524	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
283	SRR5563575	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
284	SRR5563576	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
285	SRR5563577	Tokhom-tungalag	Camelus bactrianus	male	ear	NGS	Mongolia	Asia	Mongolia
286	SRR5563578	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
287	SRR5563579	Tokhom-tungalag	Camelus bactrianus	male	ear	NGS	Mongolia	Asia	Mongolia
288	SRR5563580	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
289	SRR5563581	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
290	SRR5563582	Tokhom-tungalag	Camelus bactrianus	female	ear	NGS	Mongolia	Asia	Mongolia
291	SRR5563546	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
292	SRR5563547	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
293	SRR5563548	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
294	SRR5563549	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
295	SRR5563550	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
296	SRR5563551	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
297	SRR5563552	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
298	SRR5563553	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
299	SRR5563554	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
300	SRR5563555	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
301	SRR5563556	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
302	SRR5563557	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
303	SRR5563558	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
304	SRR5563559	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
305	SRR5563560	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
306	SRR5563561	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
307	SRR5563562	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
308	SRR5563563	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
309	SRR5563564	Wild	Camelus ferus	missing	ear	NGS	Mongolia	Asia	Mongolia
310	SRR5563545	Zhunger	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
311	SRR5563585	Zhunger	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
312	SRR5563586	Zhunger	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
313	SRR5563587	Zhunger	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
314	SRR5563588	Zhunger	Camelus bactrianus	female	ear	NGS	China	Asia	China:Xinjiang
315	SRR7750207	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
316	SRR7750208	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
317	SRR7750209	Alxa Desert camel	Camelus bactrianus	male	muscle	NA	NA	NA	NA
318	SRR7750210	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
319	SRR7750211	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
320	SRR7750212	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
321	SRR7750213	Alxa Desert camel	Camelus bactrianus	male	muscle	NA	NA	NA	NA
322	SRR7750214	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
323	SRR7750215	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
324	SRR7750216	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
325	SRR7750217	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
326	SRR7750218	Alxa Desert camel	Camelus bactrianus	male	muscle	NGS	NA	NA	NA
327	SRR1552325	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
328	SRR1552326	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
329	SRR1552327	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
330	SRR1552328	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
331	SRR1552329	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
332	SRR1552330	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
333	SRR1552331	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
334	SRR1552332	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
335	SRR1552333	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
336	SRR1552334	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
337	SRR1552335	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
338	SRR1552336	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
339	SRR1552337	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
340	SRR1552338	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
341	SRR1552339	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
342	SRR1552340	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
343	SRR1552341	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
344	SRR1552342	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
345	SRR1552343	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
346	SRR1552344	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
347	SRR1552345	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
348	SRR1552346	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
349	SRR1552347	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA
350	SRR1552348	unknown	Camelus bactrianus	NA	NA	NGS	NA	NA	NA