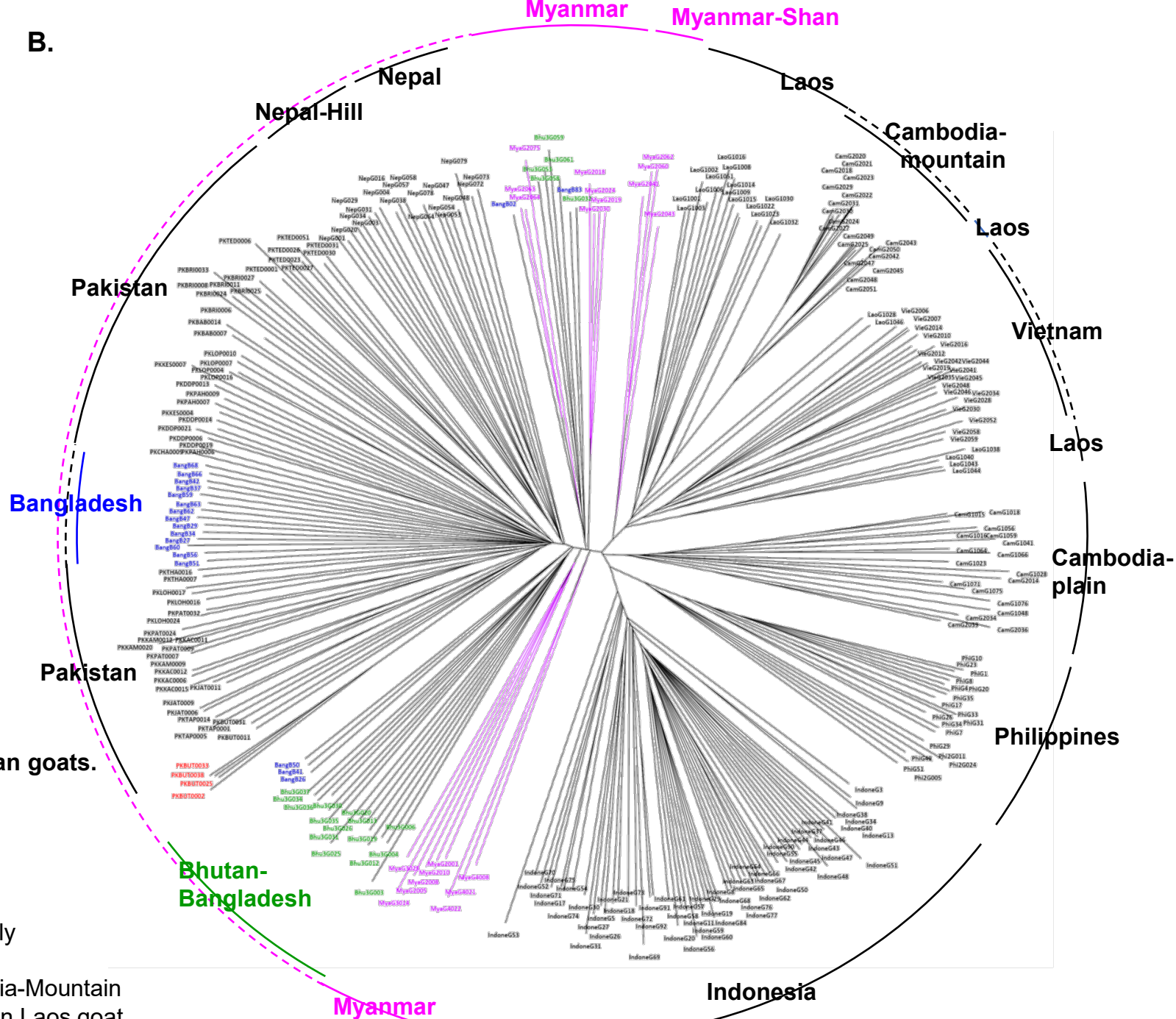


B.



B. 295 Southern Asian goats.

Genetic clusters are indicated. Color key:

Myanmar goats

Bangladesh goats

Bhutan goats

4 PKBUT goats: closely related outliers.

Vietnam and Cambodia-Mountain goats are nested within Laos goat and Bangladesh goats within Pakistan goats

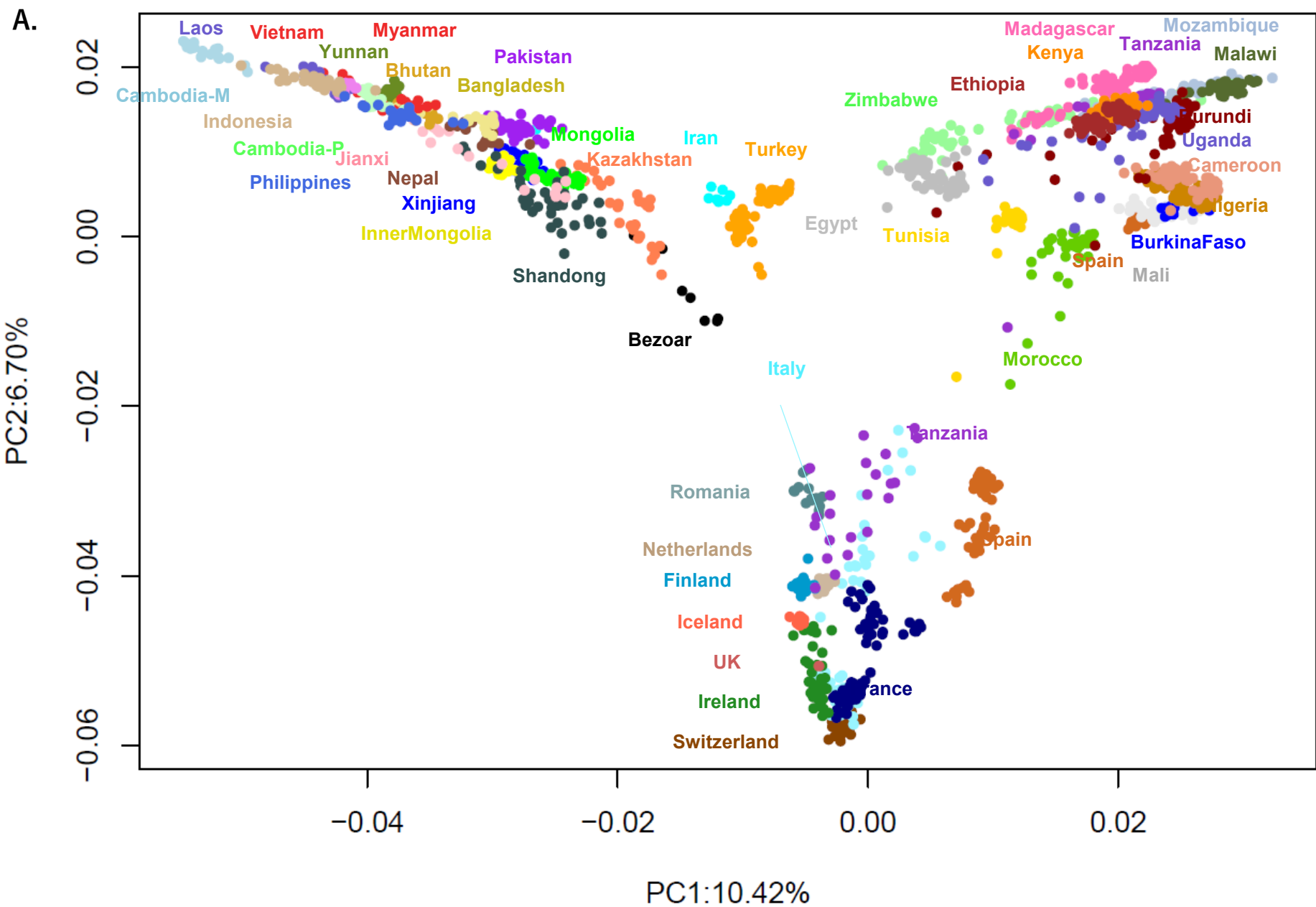
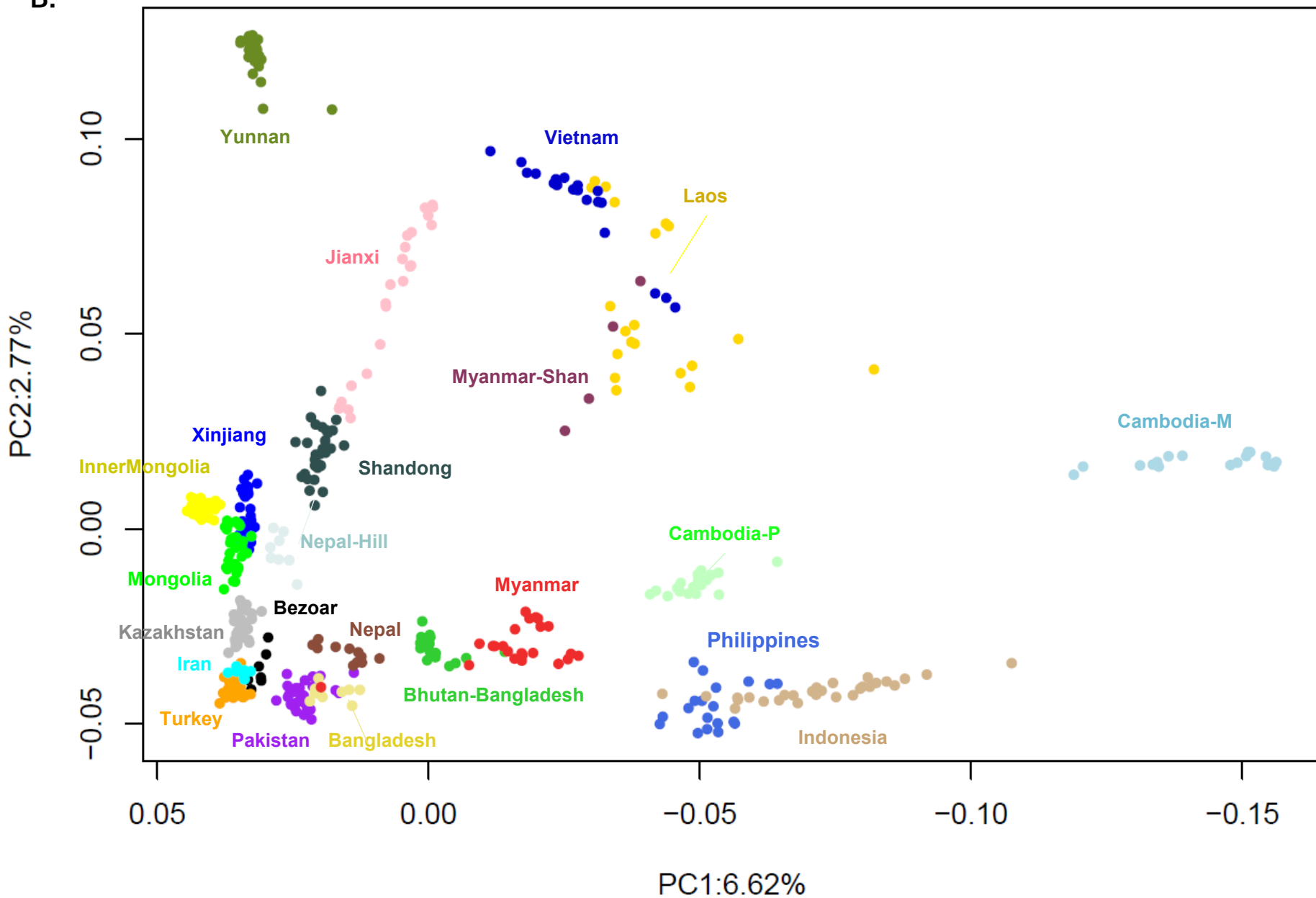


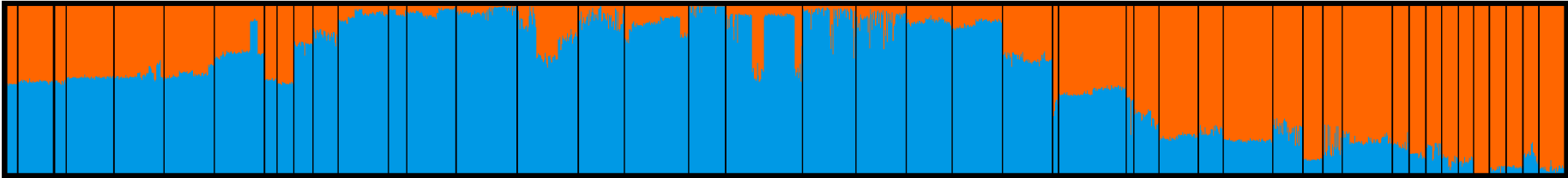
Fig. S2. A. pPCA of Eurasian and African goats.

B.

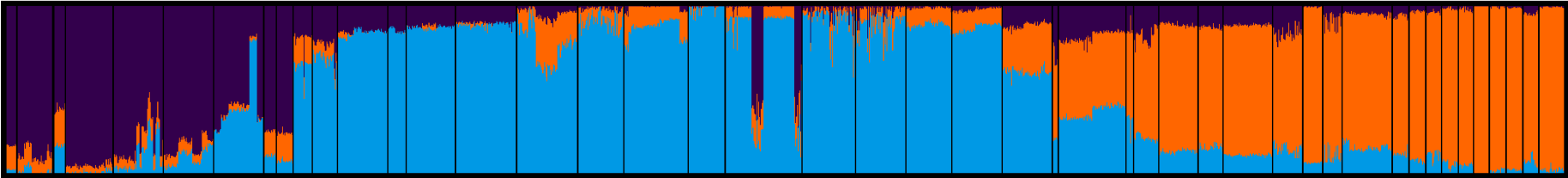


B. pPCA of Asian goats.

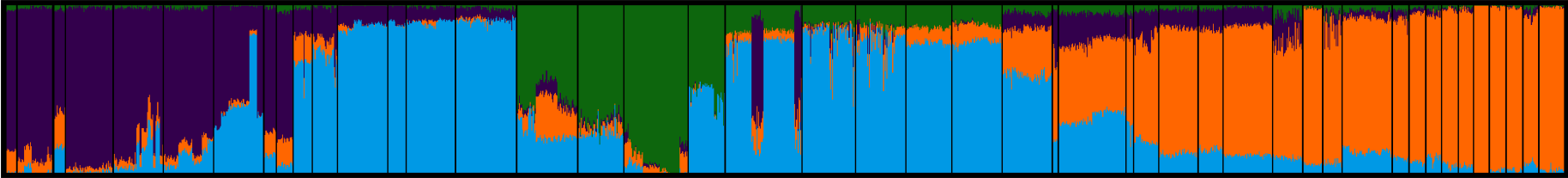
K=2



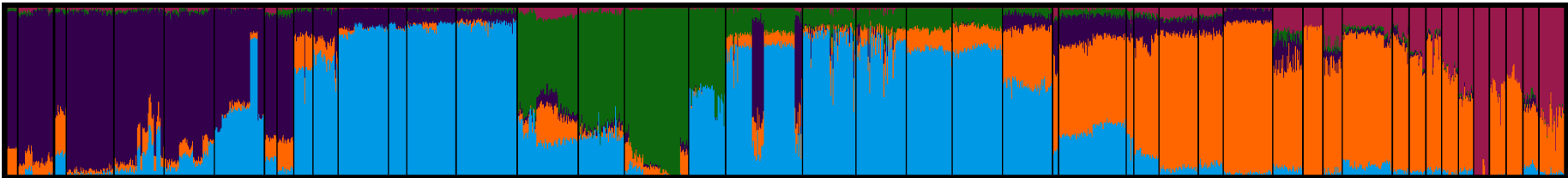
K=3



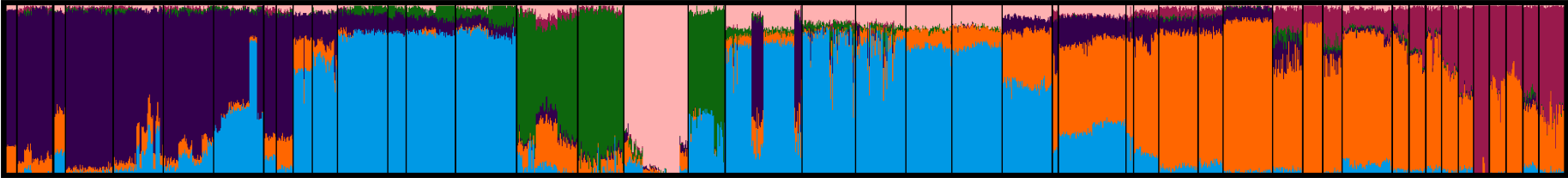
K=4



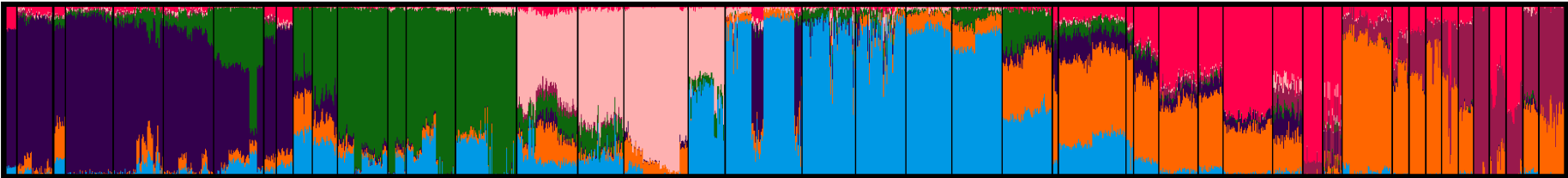
K=5



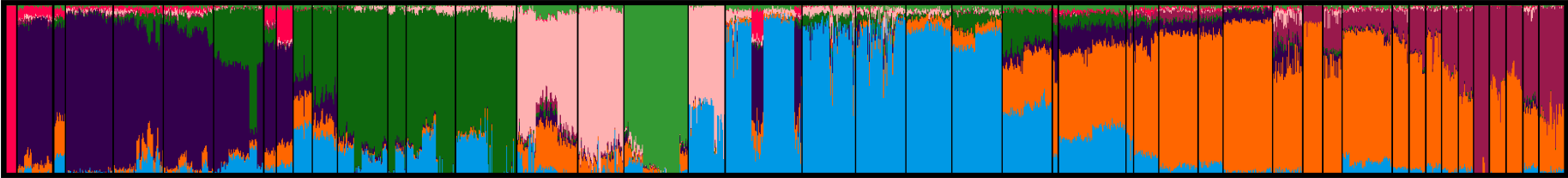
K=6



K=7



K=8



K=9

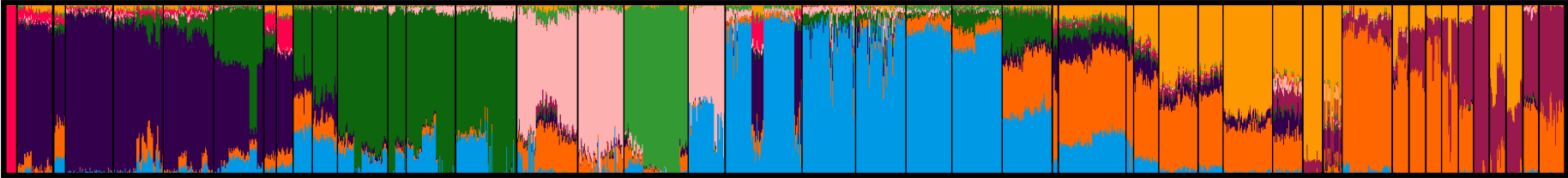
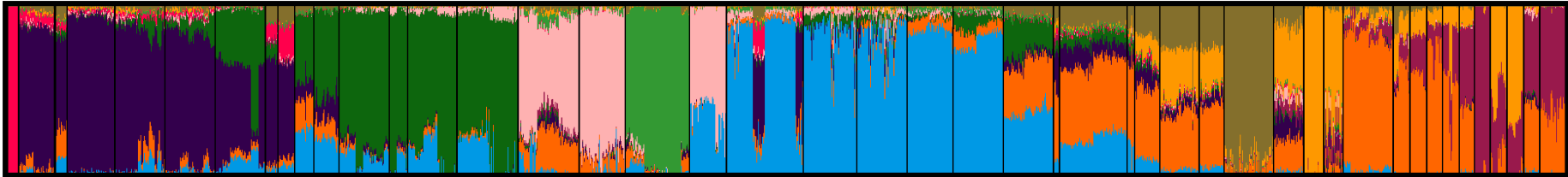
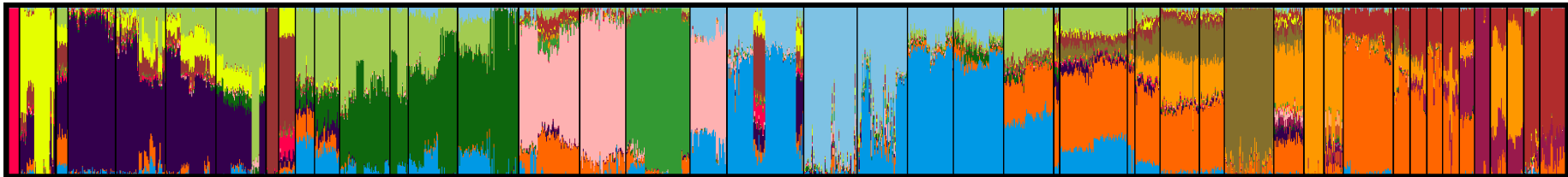


Fig. S3. ADMIXTURE patterns of Eurasian and African goats with K=2 to K=30.

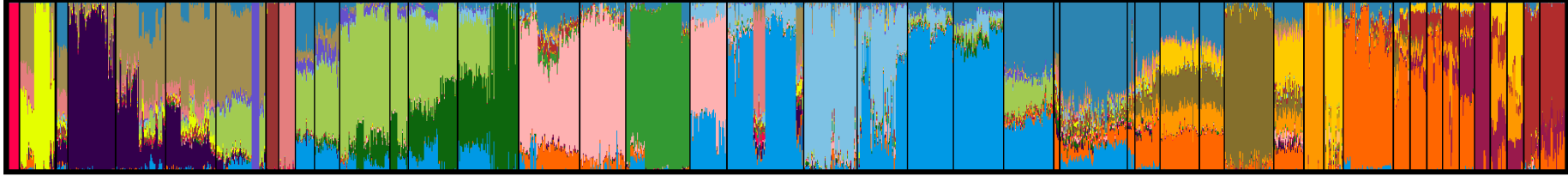
K=10



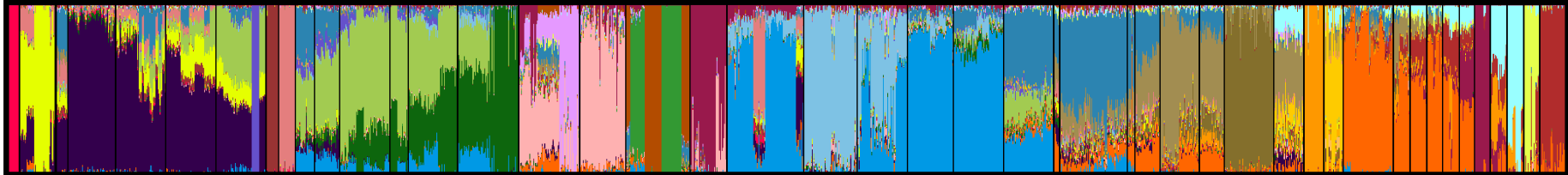
K=15



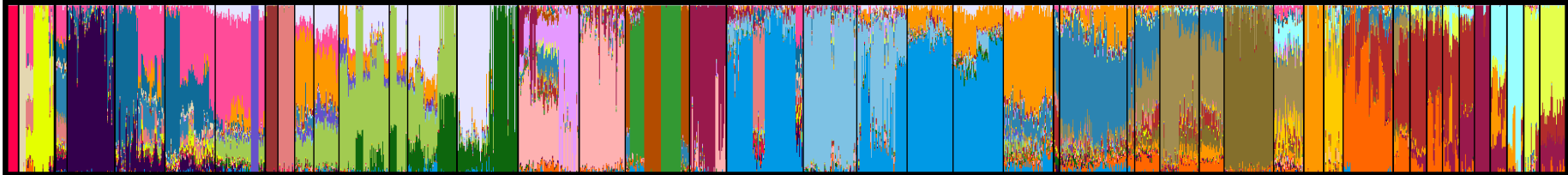
K=20



K=25



K=30



Iceland
Ireland
Romania
Switzerland
Italy
France
Spain
Netherlands
Finland
Tunisia
Morocco
Mali
BurkinaFaso
Nigeria
Cameroon
Zimbabwe
Mozambique
Madagascar
Malawi
Tanzania
Burundi
Uganda
Kenya
Ethiopia
Egypt
Bezoar
Turkey
Kazakhstan
Iran
Xinjiang
Mongolia
InnerMongolia
Shandong
Yunnan
Jiangxi
Pakistan
Nepal
Bangladesh
Myanmar
Cambodia
Laos
Vietnam
Philippines
Indonesia

Fig. S3. (Continued)

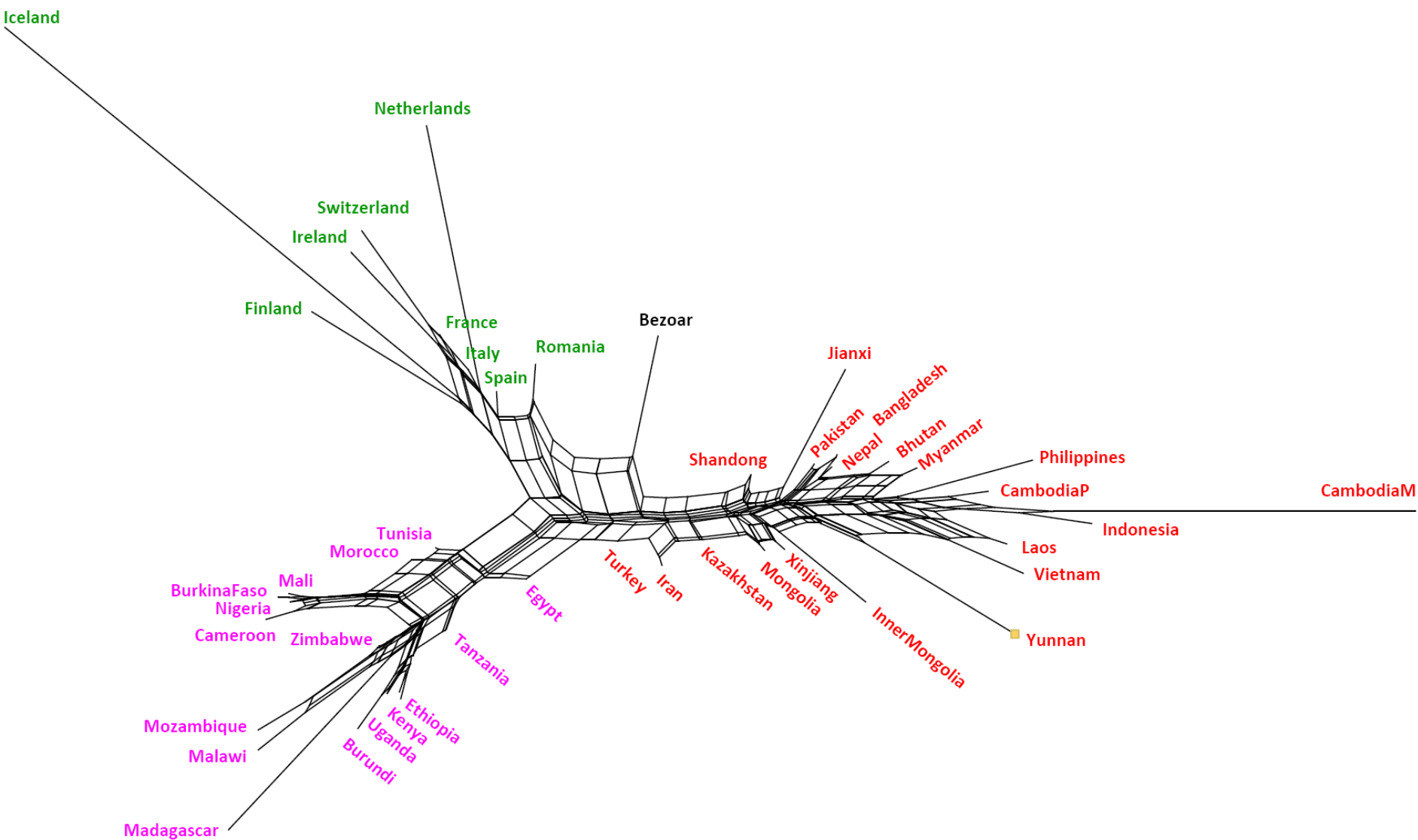


Fig. S4. Neighbour-Net graph of Eurasian and African goat populations.

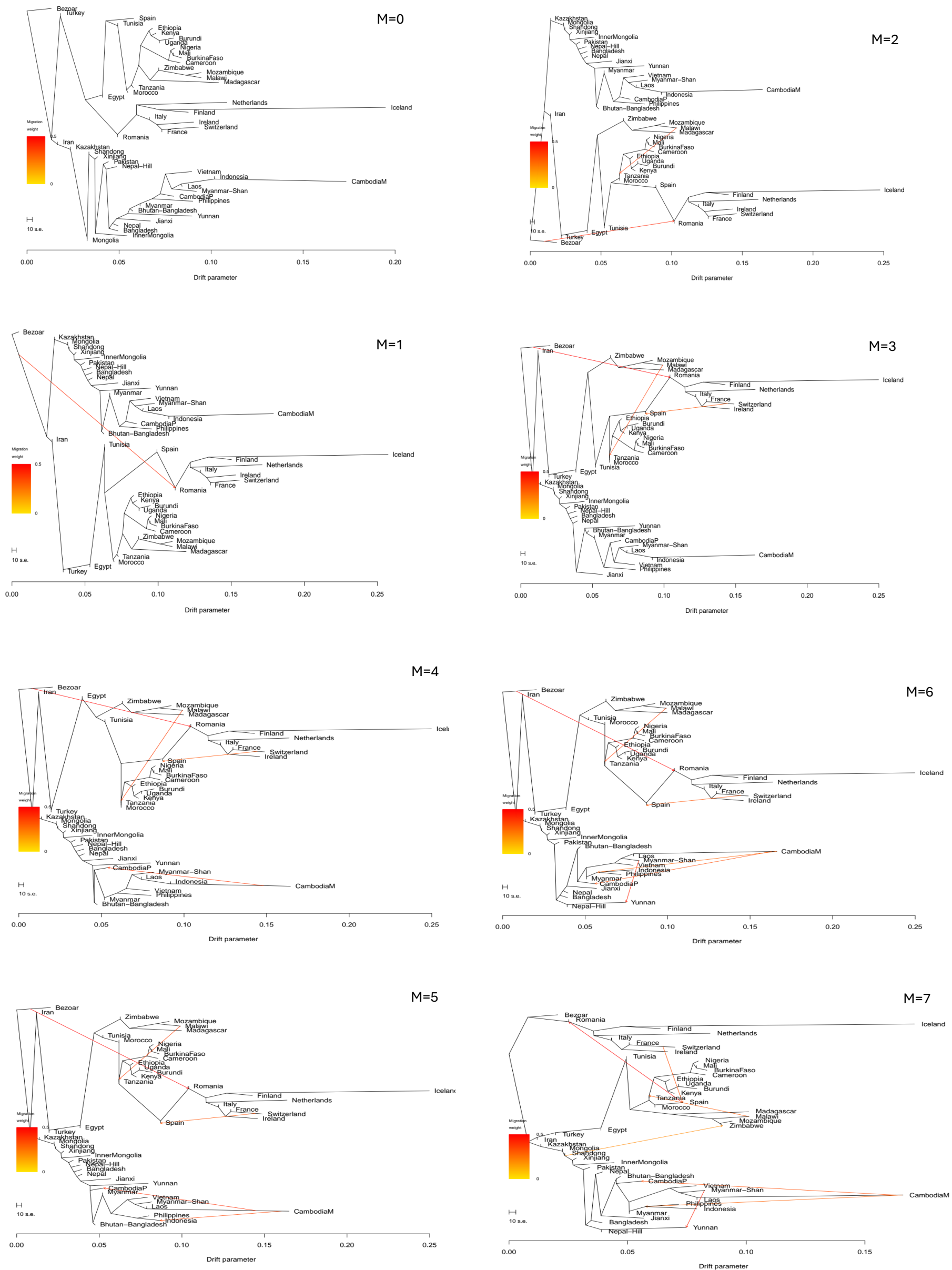
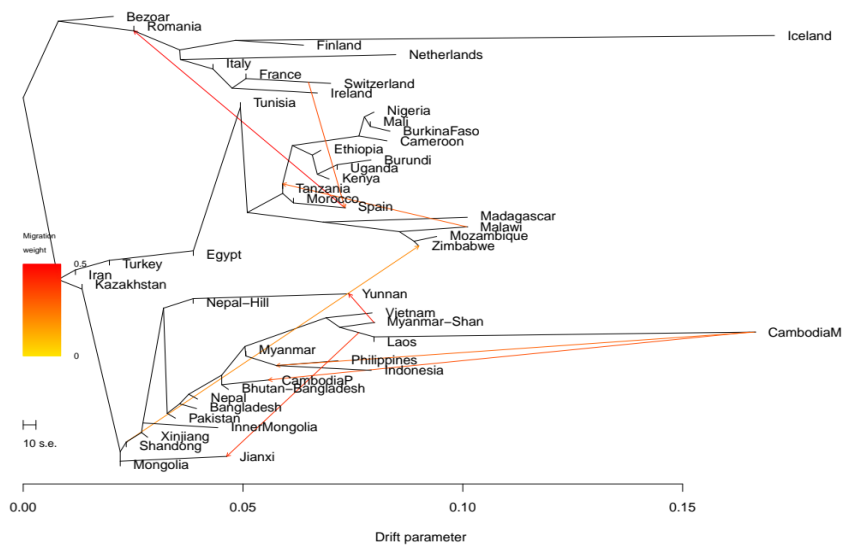
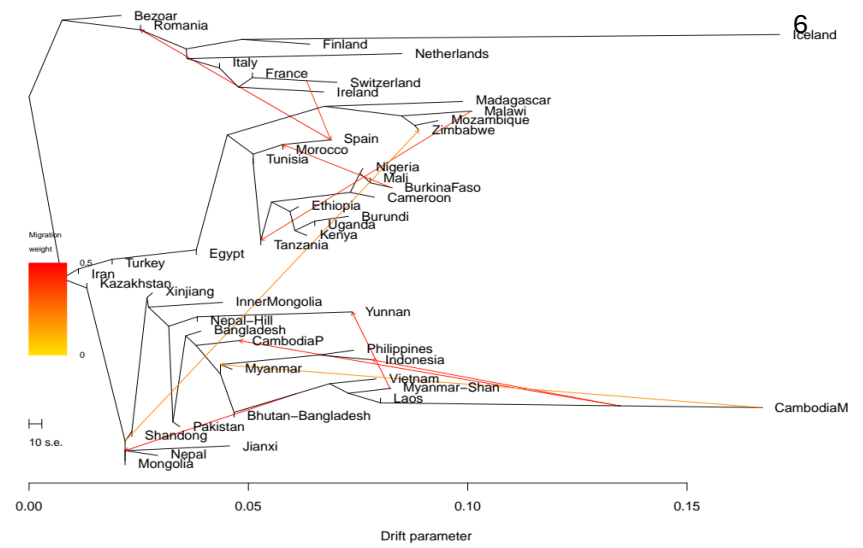


Fig. S5. TreeMix phylogenies of Eurasian and African goat populations graphs of the domestic goats in the world 0 to 10, 15, 20, 25, and 30 migration events. The migration weights are indicated by heatmaps. Scale bar indicates the drift parameter. Bezoars were used for rooting. This showing the different histories of northern and southern Asian breeds and providing evidence for several gene flows, such as between bezoar and Romanian goats and between northern and southern Asian goats.

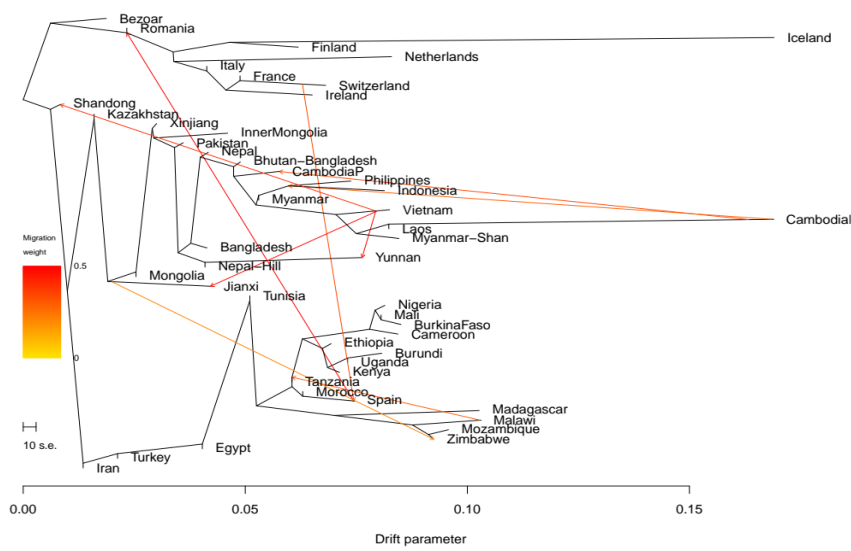
M=8



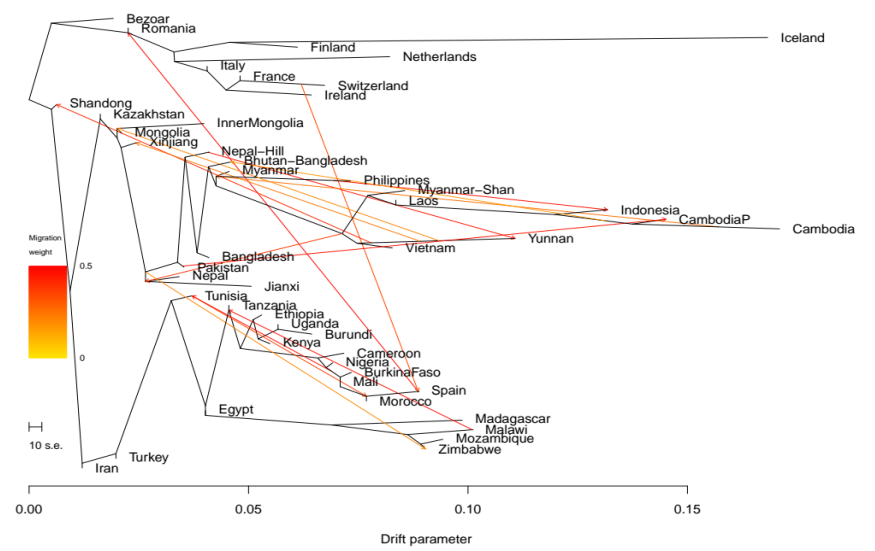
M=10



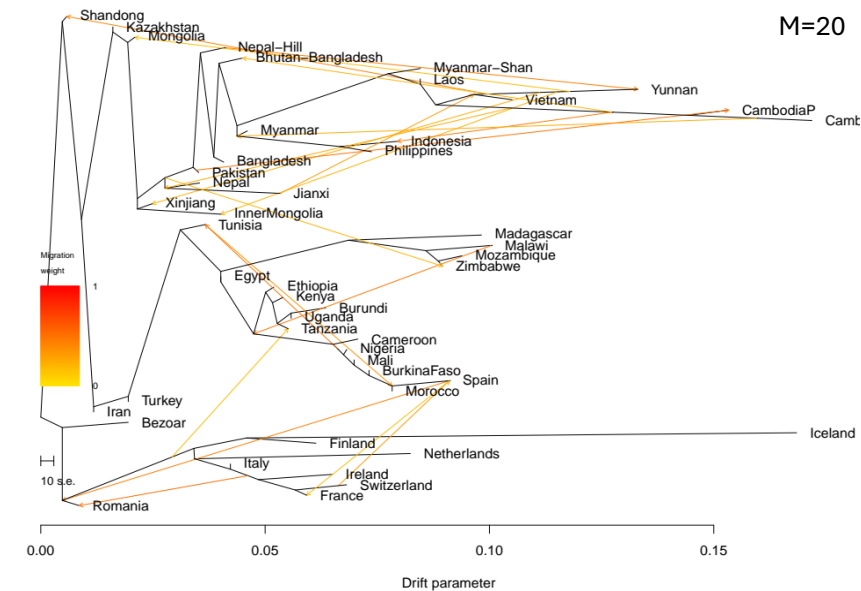
M=9



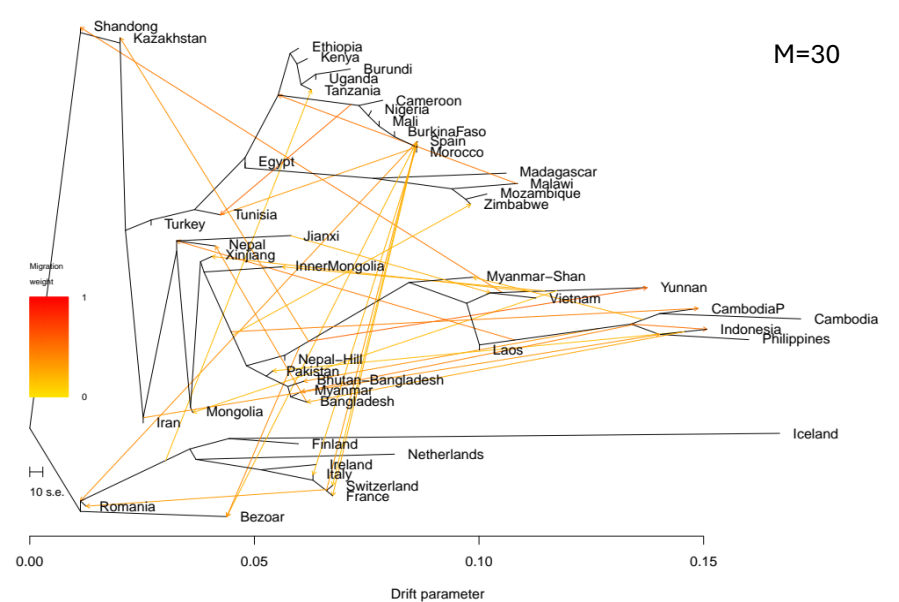
M=15



M=20



M=30



M=25

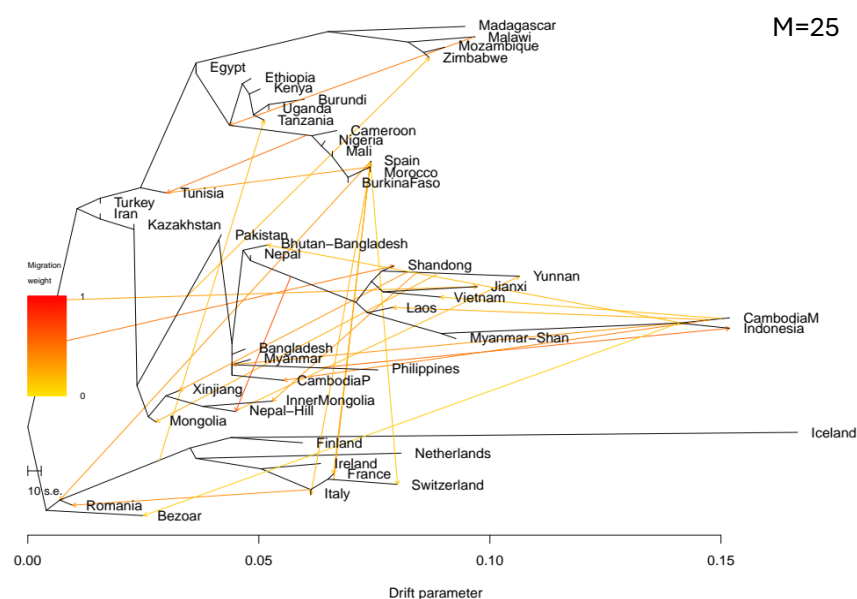


Fig. S5. (Continued)

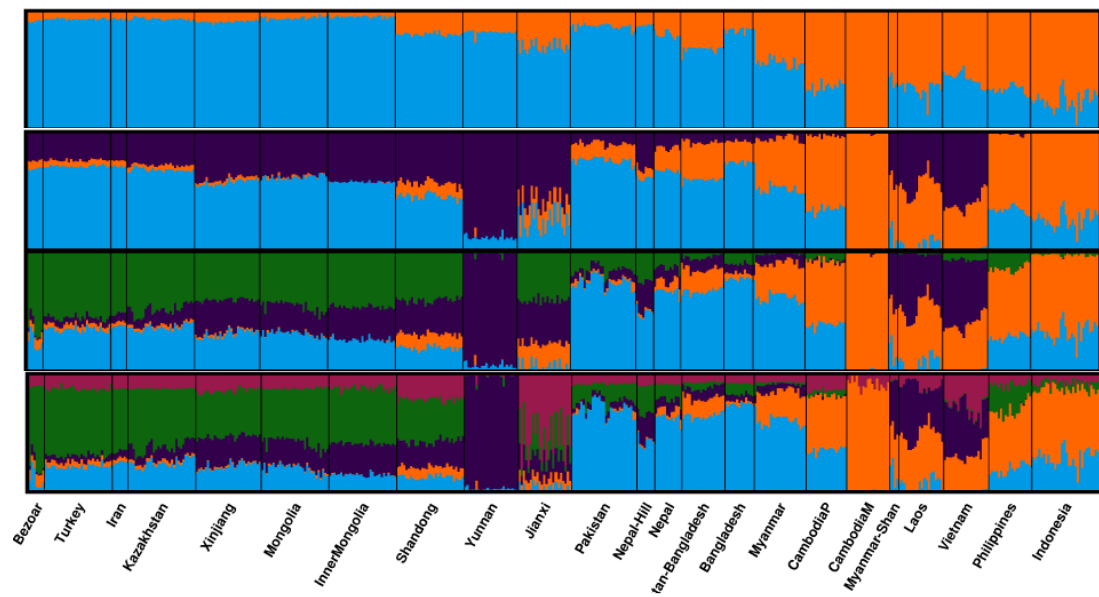


Fig. S6. Reduced representation Admixture analysis (RRAA) of Asian goats with $k=2$ to 5.

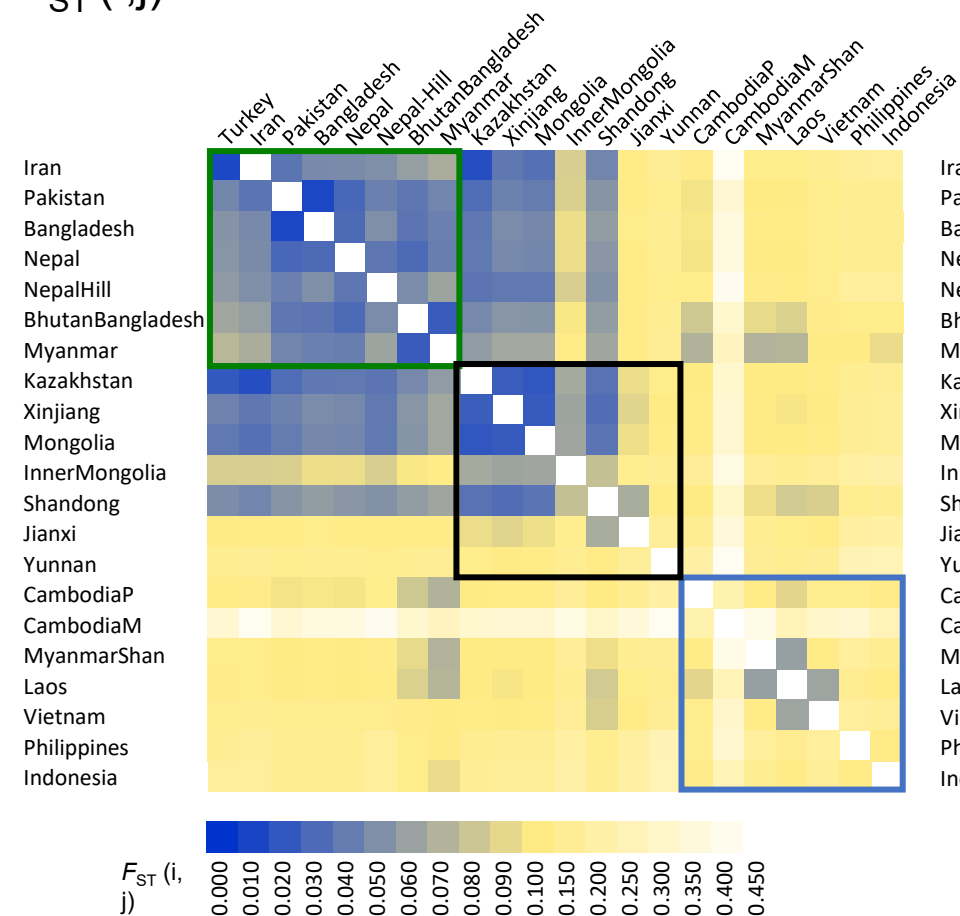
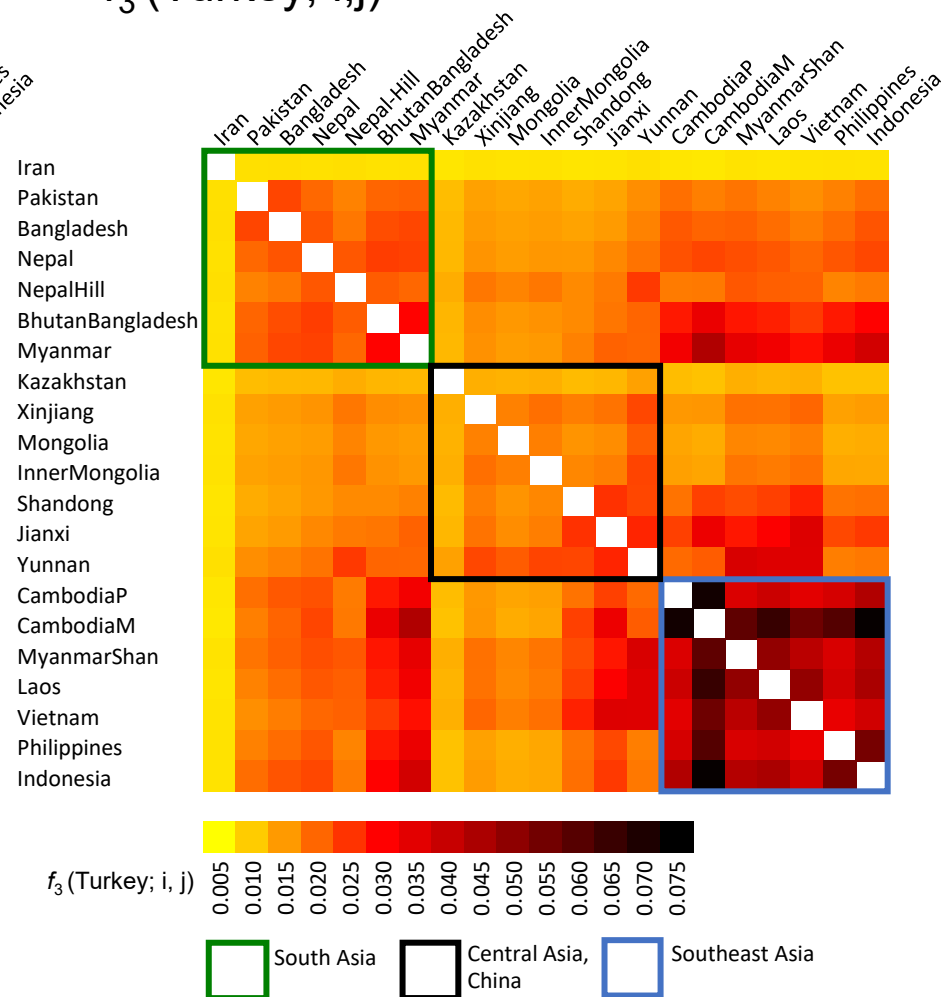
$F_{ST}(i,j)$

 $f_3(\text{Turkey}; i,j)$


Fig. S7. Heatmaps of F_{ST} distances between Asian goat populations (left panel) and of f_3 coancestries of Asian goat populations since their divergence from Turkish goats (right panel).

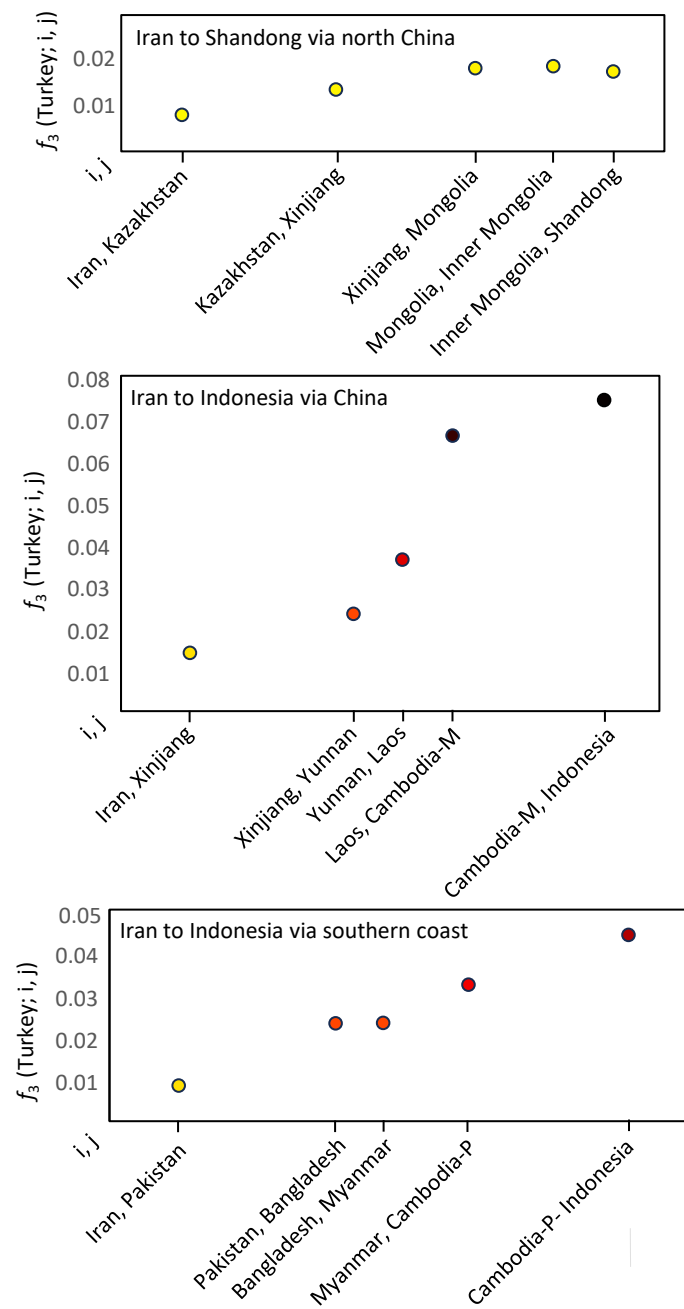


Fig. S8. f_3 coancestries of populations along hypothetical migration routes in northern China (top panel), southern and central China (central panel) and southern Asia. Increasing coancestries of two neighbouring populations i and j along the migration indicates an increase in the genetic changes (by drift, adaptation, selection, isolation) that are shared by the two populations. Conversely, breed pairs with almost the same coancestries have also the same divergence times, which may indicate a fast migration or homogenization by reverse gene flow counteracting the effect of the migration.

Table S1: Asian goat individuals genotyped in this study.

Country	Population	Location	Sex	Individual	Source of DNA samples
Samples passing quality control after trimmed to ≤30 individuals per breed					
Bangladesh	Bangladesh	Bahadurpur, Jessore	Male	BangB27	Lin et al. 2013
Bangladesh	Bangladesh	New market, Jessore	Male	BangB29	
Bangladesh	Bangladesh	Mollapara, Jessore	Male	BangB34	
Bangladesh	Bangladesh	Dalpatty, Bogra	Male	BangB37	
Bangladesh	Bangladesh	Dalpatty, Bogra	Male	BangB42	
Bangladesh	Bangladesh	Dalpatty, Bogra	Male	BangB47	
Bangladesh	Bangladesh	Alinagar, Nawabganj	Male	BangB51	
Bangladesh	Bangladesh	Choto Bangao, Rajshahi	Male	BangB56	
Bangladesh	Bangladesh	Dingadoba, Rajshahi	Male	BangB59	
Bangladesh	Bangladesh	Dingadoba, Rajshahi	Male	BangB60	
Bangladesh	Bangladesh	Dingadoba, Rajshahi	Male	BangB62	
Bangladesh	Bangladesh	Dingadoba, Rajshahi	Male	BangB63	
Bangladesh	Bangladesh	Dingadoba, Rajshahi	Male	BangB66	
Bangladesh	Bangladesh	Dingadoba, Rajshahi	Male	BangB68	
Bangladesh	Myanmar	Tiger, Bandarban	Male	BangB02	
Bangladesh	Myanmar	Dimla, Rangpur	Male	BangB83	
Bangladesh	Bhutan-Bangladesh	Bahadurpur, Jessore	Male	BangB26	
Bangladesh	Bhutan-Bangladesh	New market, Jessore	Male	BangB41	
Bangladesh	Bhutan-Bangladesh	New market, Jessore	Male	BangB50	
Bhutan	Bhutan-Bangladesh	Damphu Block, Tsirang	Male	Bhu3G003	Lin et al. 2013
Bhutan	Bhutan-Bangladesh	Damphu Block, Tsirang	Male	Bhu3G004	
Bhutan	Bhutan-Bangladesh	Damphu Block, Tsirang	Male	Bhu3G006	
Bhutan	Bhutan-Bangladesh	Darachug Block, Tsirang	Male	Bhu3G012	
Bhutan	Bhutan-Bangladesh	Darachug Block, Tsirang	Male	Bhu3G013	
Bhutan	Bhutan-Bangladesh	Darachug Block, Tsirang	Male	Bhu3G019	
Bhutan	Bhutan-Bangladesh	Tsholingkhar Block, Tsirang	Male	Bhu3G020	
Bhutan	Bhutan-Bangladesh	Tsholingkhar Block, Tsirang	Male	Bhu3G025	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G026	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G030	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G031	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G034	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G035	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G036	
Bhutan	Bhutan-Bangladesh	Army Base, Wangdi-Phodrang	Male	Bhu3G037	
Bhutan	Myanmar	Army Base, Wangdi-Phodrang	Male	Bhu3G032	
Bhutan	Myanmar	Mrak, Tashigang	Male	Bhu3G053	
Bhutan	Myanmar	Zalaphangma Vil., Mongal	Male	Bhu3G058	
Bhutan	Myanmar	Zalaphangma Vil., Mongal	Male	Bhu3G059	
Bhutan	Myanmar	Namling Vil., Mongal	Male	Bhu3G061	
Cambodia	CambodiaP	Sihanouk	Male	CamG1015	Lin et al. 2013
Cambodia	CambodiaP	Sihanouk	Male	CamG1016	
Cambodia	CambodiaP	Sihanouk	Male	CamG1018	
Cambodia	CambodiaP	Siemreap	Male	CamG1023	
Cambodia	CambodiaP	Siemreap	Male	CamG1028	
Cambodia	CambodiaP	Banteymeanchey	Male	CamG1041	
Cambodia	CambodiaP	Battambong	Male	CamG1048	
Cambodia	CambodiaP	Battambong	Male	CamG1056	
Cambodia	CambodiaP	Battambong	Male	CamG1059	
Cambodia	CambodiaP	Compong Chhang	Male	CamG1064	
Cambodia	CambodiaP	Compong Chhang	Male	CamG1066	
Cambodia	CambodiaP	Koh kong	Male	CamG1071	
Cambodia	CambodiaP	Koh kong	Male	CamG1075	
Cambodia	CambodiaP	Koh kong	Male	CamG1076	
Cambodia	CambodiaP	Kampong Cham	Male	CamG2014	
Cambodia	CambodiaP	Stung Treng	Male	CamG2034	
Cambodia	CambodiaP	Stung Treng	Male	CamG2036	
Cambodia	CambodiaP	Stung Treng	Male	CamG2039	
Cambodia	CambodiaM	Mondul Kiri	Male	CamG2018	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2020	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2021	
Cambodia	CambodiaM	Mondul Kiri	Male	CamG2022	
Cambodia	CambodiaM	Mondul Kiri	Male	CamG2023	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2024	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2025	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2027	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2029	
Cambodia	CambodiaM	Mondul Kiri	Female	CamG2030	
Cambodia	CambodiaM	Mondul Kiri	Male	CamG2031	
Cambodia	CambodiaM	Rattana Kiri	Male	CamG2042	
Cambodia	CambodiaM	Rattana Kiri	Female	CamG2043	
Cambodia	CambodiaM	Rattana Kiri	Female	CamG2045	
Cambodia	CambodiaM	Rattana Kiri	Female	CamG2047	
Cambodia	CambodiaM	Rattana Kiri	Female	CamG2048	
Cambodia	CambodiaM	Rattana Kiri	Female	CamG2049	
Cambodia	CambodiaM	Rattana Kiri	Male	CamG2050	
Cambodia	CambodiaM	Rattana Kiri	Male	CamG2051	
Indonesia	Indonesia	Soppeng, South Sulawesi	Male	IndG13	Mannen et al. 2020; Masuko et al. 2025
Indonesia	Indonesia	Maros, South Sulawesi	Male	IndG17	
Indonesia	Indonesia	Maros, South Sulawesi	Male	IndG18	
Indonesia	Indonesia	Pinrang , South Sulawesi	Male	IndG21	
Indonesia	Indonesia	Sidrap, South Sulawesi	Male	IndG26	
Indonesia	Indonesia	Sidrap, South Sulawesi	Male	IndG27	
Indonesia	Indonesia	Soppeng, South Sulawesi	Male	IndG3	
Indonesia	Indonesia	Sidrap, South Sulawesi	Male	IndG30	
Indonesia	Indonesia	Sidrap, South Sulawesi	Male	IndG31	
Indonesia	Indonesia	Sidrap, South Sulawesi	Male	IndG34	
Indonesia	Indonesia	Bontoa subdist, Maros, South Sulawesi	Male	IndG38	
Indonesia	Indonesia	Bontoa subdist, Maros, South Sulawesi	Male	IndG40	
Indonesia	Indonesia	Bontoa subdist, Maros, South Sulawesi	Male	IndG41	
Indonesia	Indonesia	Soppeng, South Sulawesi	Male	IndG5	
Indonesia	Indonesia	Jeneponto , South Sulawesi	Male	IndG52	
Indonesia	Indonesia	Jeneponto , South Sulawesi	Male	IndG53	
Indonesia	Indonesia	Jeneponto , South Sulawesi	Male	IndG54	

Indonesia	Indonesia	Jeneponto , South Sulawesi	Male	IndG55	Tabata et al. 2019
Indonesia	Indonesia	Jeneponto , South Sulawesi	Male	IndG61	
Indonesia	Indonesia	Jeneponto , South Sulawesi	Male	IndG69	
Indonesia	Indonesia	Suardi, Maros, South Sulawesi	Male	IndG70	
Indonesia	Indonesia	Sudirman, Maros, South Sulawesi	Male	IndG71	
Indonesia	Indonesia	Sudirman, Maros, South Sulawesi	Male	IndG72	
Indonesia	Indonesia	Sudirman, Maros, South Sulawesi	Male	IndG73	
Indonesia	Indonesia	Bontoa, Maros, South Sulawesi	Male	IndG74	
Indonesia	Indonesia	Bontoa, Maros, South Sulawesi	Male	IndG75	
Indonesia	Indonesia	Soppeng, South Sulawesi	Male	IndG8	
Indonesia	Indonesia	Soppeng, South Sulawesi	Male	IndG9	
Indonesia	Indonesia	Bontoa, Maros, South Sulawesi	Male	IndG91	
Indonesia	Indonesia	Bontoa, Maros, South Sulawesi	Male	IndG92	
Kazakhstan	Kazakhstan	Zhalta Vill., Astana	Male	KazG001	Tabata et al. 2019
Kazakhstan	Kazakhstan	Zhalta Vill., Astana	Male	KazG025	
Kazakhstan	Kazakhstan	West Kaz	Male	KazG029	
Kazakhstan	Kazakhstan	Almaty Market, Almaty	Male	KazG031	
Kazakhstan	Kazakhstan	Almaty Market, Almaty	Male	KazG032	
Kazakhstan	Kazakhstan	Almaty Market, Almaty	Male	KazG033	
Kazakhstan	Kazakhstan	Almaty Market, Almaty	Male	KazG034	
Kazakhstan	Kazakhstan	Almaty Market, Almaty	Male	KazG039	
Kazakhstan	Kazakhstan	Almaty Market, Almaty	Male	KazG040	
Kazakhstan	Kazakhstan	Shymkent	Male	KazG055	
Kazakhstan	Kazakhstan	Shymkent	Male	KazG059	
Kazakhstan	Kazakhstan	Old Yelinka, Astana	Male	KazG074	
Kazakhstan	Kazakhstan	Old Yelinka, Astana	Male	KazG076	
Kazakhstan	Kazakhstan	Old Yelinka, Astana	Male	KazG081	
Kazakhstan	Kazakhstan	Old Yelinka, Astana	Male	KazG089	
Kazakhstan	Kazakhstan	Old Yelinka, Astana	Male	KazG090	
Kazakhstan	Kazakhstan	Aktobe	Male	KazG094	
Kazakhstan	Kazakhstan	Aktobe	Male	KazG095	
Kazakhstan	Kazakhstan	Aktobe	Male	KazG096	
Kazakhstan	Kazakhstan	Aktobe	Male	KazG097	
Kazakhstan	Kazakhstan	Aktobe	Male	KazG099	
Kazakhstan	Kazakhstan	Ansar, Astana	Male	KazG101	
Kazakhstan	Kazakhstan	Ansar, Astana	Male	KazG102	
Kazakhstan	Kazakhstan	Ansar, Astana	Male	KazG105	
Kazakhstan	Kazakhstan	Ansar, Astana	Male	KazG111	
Kazakhstan	Kazakhstan	Akmarzhan	Male	KazG114	
Kazakhstan	Kazakhstan	Akmarzhan	Male	KazG115	
Kazakhstan	Kazakhstan	Altyn, Mangghystau	Male	KazG125	
Kazakhstan	Kazakhstan	Altyn, Mangghystau	Male	KazG126	
Kazakhstan	Kazakhstan	Altyn, Mangghystau	Male	KazG128	
Laos	Laos	Nong Teng, Vientiane	Female	LaoG1001	Mannen et al. 2001
Laos	Laos	Nong Teng, Vientiane	Male	LaoG1002	
Laos	Laos	Nong Teng, Vientiane	Male	LaoG1003	
Laos	Laos	Sihouhung, Vientiane	Male	LaoG1006	
Laos	Laos	Pak, Xieng Khuang	Male	LaoG1008	
Laos	Laos	Pak, Xieng Khuang	Male	LaoG1009	
Laos	Laos	Pak, Xieng Khuang	Male	LaoG1014	
Laos	Laos	Pak, Xieng Khuang	Male	LaoG1015	
Laos	Laos	Pak, Xieng Khuang	Male	LaoG1016	
Laos	Laos	Bachiang, Champasak	Female	LaoG1022	
Laos	Laos	Bachiang, Champasak	Male	LaoG1023	
Laos	Laos	Bachiang, Champasak	Male	LaoG1028	
Laos	Laos	Bachiang, Champasak	Male	LaoG1030	
Laos	Laos	Bachiang, Champasak	Female	LaoG1032	
Laos	Laos	Borikhamxay	Male	LaoG1038	
Laos	Laos	Borikhamxay	Male	LaoG1040	
Laos	Laos	Borikhamxay	Male	LaoG1043	
Laos	Laos	Borikhamxay	Male	LaoG1044	
Laos	Laos	Vientiane	Female	LaoG1046	
Laos	Laos	Luang Namtha	Male	LaoG1051	
Mongolia	Mongolia	Ulan Bator	Male	MglG1006	Lin et al. 2013
Mongolia	Mongolia	Ulan Bator	Male	MglG1008	
Mongolia	Mongolia	Ulan Bator	Male	MglG1009	
Mongolia	Mongolia	Ulan Bator	Male	MglG1011	
Mongolia	Mongolia	Ulan Bator	Male	MglG1012	
Mongolia	Mongolia	Ulan Bator	Male	MglG1013	
Mongolia	Mongolia	Ulan Bator	Male	MglG1014	
Mongolia	Mongolia	Ulan Bator	Male	MglG1016	
Mongolia	Mongolia	Ulan Bator	Male	MglG1017	
Mongolia	Mongolia	Ulan Bator	Male	MglG1018	
Mongolia	Mongolia	Ulan Bator	Male	MglG1019	
Mongolia	Mongolia	Ulan Bator	Male	MglG1020	
Mongolia	Mongolia	Ulan Bator	Male	MglG1022	
Mongolia	Mongolia	Ulan Bator	Male	MglG1023	
Mongolia	Mongolia	Ulan Bator	Male	MglG1024	
Mongolia	Mongolia	Ulan Bator	Male	MglG1037	
Mongolia	Mongolia	Ulan Bator	Male	MglG1041	
Mongolia	Mongolia	Ulan Bator	Male	MglG1043	
Mongolia	Mongolia	Ulan Bator	Male	MglG1045	
Mongolia	Mongolia	Ulan Bator	Male	MglG1052	
Mongolia	Mongolia	Ulan Bator	Male	MglG1057	
Mongolia	Mongolia	Ulan Bator	Male	MglG1062	
Mongolia	Mongolia	Ulan Bator	Male	MglG1068	
Mongolia	Mongolia	Ulan Bator	Male	MglG1070	
Mongolia	Mongolia	Ulan Bator	Male	MglG1075	
Mongolia	Mongolia	Ulan Bator	Male	MglG1076	
Mongolia	Mongolia	Ulan Bator	Male	MglG1080	
Mongolia	Mongolia	Ulan Bator	Male	MglG1081	
Mongolia	Mongolia	Ulan Bator	Male	MglG1084	
Mongolia	Mongolia	Ulan Bator	Male	MglG1088	
Myanmar	Myanmar	Thrimingalar Vill., Bagan, Mandalay	Male	MyaG2001	Lin et al. 2013
Myanmar	Myanmar	Thapyaysan Vill., Magway, Magway	Male	MyaG2005	
Myanmar	Myanmar	Thapyaysan Vill., Magway, Magway	Male	MyaG2008	
Myanmar	Myanmar	Motepalae, Mandalay	Male	MyaG2010	
Myanmar	Myanmar	Kayan, Yangon	Male	MyaG2018	

Myanmar	Myanmar	Kayan, Yangon	Male	MyaG2019	Sasazaki et al. 2021
Myanmar	Myanmar	Kayan, Yangon	Male	MyaG2024	
Myanmar	Myanmar	Kayan, Yangon	Male	MyaG2030	
Myanmar	Myanmar	Sittwe, Rakhine	Male	MyaG2063	
Myanmar	Myanmar	Sittwe, Rakhine	Male	MyaG2064	
Myanmar	Myanmar	Sittwe, Rakhine	Male	MyaG2075	
Myanmar	Myanmar	Ohnmu, Shan	Male	MyaG3014	
Myanmar	Myanmar	Kyeweye, Sagaing	Male	MyaG3025	
Myanmar	Myanmar	Shwebo, Sagaing	Male	MyaG4008	
Myanmar	Myanmar	Kalay, Sagaing	Male	MyaG4021	
Myanmar	Myanmar	Kalay, Sagaing	Male	MyaG4022	
Myanmar	Myanmar-Shan	Kyaing Tong, Shan	Male	MyaG2041	
Myanmar	Myanmar-Shan	Kyaing Tong, Shan	Male	MyaG2043	
Myanmar	Myanmar-Shan	Kyaing Tong, Shan	Male	MyaG2060	
Myanmar	Myanmar-Shan	Kyaing Tong, Shan	Male	MyaG2062	
Nepal	Nepal	Lete, Mustang	Male	NepG038	Sasazaki et al. 2021
Nepal	Nepal	Nilkantha Gaisi, Lumle	Male	NepG047	
Nepal	Nepal	Nilkantha Gaisi, Lumle	Male	NepG048	
Nepal	Nepal	Nilkantha Gaisi, Lumle	Male	NepG053	
Nepal	Nepal	Nilkantha Gaisi, Lumle	Male	NepG054	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG057	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG058	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG064	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG072	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG073	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG078	
Nepal	Nepal	Resional Agricultural Research Station, Lumle	Male	NepG079	
Nepal	Nepal-Hill	Jomsom, Mustang	Male	NepG001	
Nepal	Nepal-Hill	Jomsom, Mustang	Male	NepG003	
Nepal	Nepal-Hill	Jomsom, Mustang	Male	NepG004	
Nepal	Nepal-Hill	Jomsom, Mustang	Male	NepG016	
Nepal	Nepal-Hill	Jomsom, Mustang	Male	NepG020	
Nepal	Nepal-Hill	Muktinath, Mustang	Male	NepG029	Masuko et al. 2025
Nepal	Nepal-Hill	Muktinath, Mustang	Male	NepG031	
Nepal	Nepal-Hill	Muktinath, Mustang	Male	NepG034	
Philippines	Philippines	Los Banos, Laguna	Male	Phi2G005	
Philippines	Philippines	Los Banos, Laguna	Male	Phi2G011	
Philippines	Philippines	San Jose, Mindoro	Male	Phi2G024	
Philippines	Philippines	Calauan, Laguna	Male	PhiG1	
Philippines	Philippines	Calauan, Laguna	Male	PhiG10	
Philippines	Philippines	Calauan, Laguna	Male	PhiG17	
Philippines	Philippines	Calauan, Laguna	Male	PhiG20	
Philippines	Philippines	Calauan, Laguna	Male	PhiG23	
Philippines	Philippines	Calauan, Laguna	Male	PhiG26	
Philippines	Philippines	Calauan, Laguna	Male	PhiG29	
Philippines	Philippines	Calauan, Laguna	Male	PhiG31	
Philippines	Philippines	Calauan, Laguna	Male	PhiG33	
Philippines	Philippines	Calauan, Laguna	Male	PhiG34	
Philippines	Philippines	Calauan, Laguna	Male	PhiG35	
Philippines	Philippines	Calauan, Laguna	Male	PhiG4	Lin et al. 2013
Philippines	Philippines	Calauan, Laguna	Male	PhiG49	
Philippines	Philippines	Hasana Bay, Laguna	Male	PhiG51	
Philippines	Philippines	Calauan, Laguna	Male	PhiG7	
Philippines	Philippines	Calauan, Laguna	Male	PhiG8	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2006	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2007	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2010	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2012	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2014	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2016	
Vietnam	Vietnam	Ham Yen, Tuyen Quang	Female	VieG2019	
Vietnam	Vietnam	Lao Cai	Female	VieG2028	
Vietnam	Vietnam	Lao Cai	Female	VieG2030	
Vietnam	Vietnam	Lao Cai	Female	VieG2034	
Vietnam	Vietnam	Na Giang, Bac Thai	Male	VieG2035	
Vietnam	Vietnam	Na Giang, Bac Thai	Male	VieG2041	
Vietnam	Vietnam	Na Giang, Bac Thai	Female	VieG2042	
Vietnam	Vietnam	Hoa Tring, Bac Thai	Male	VieG2044	
Vietnam	Vietnam	Hoa Tring, Bac Thai	Male	VieG2045	
Vietnam	Vietnam	Hoa Tring, Bac Thai	Male	VieG2046	
Vietnam	Vietnam	Hoa Tring, Bac Thai	Female	VieG2048	
Vietnam	Vietnam	Bim Son, Thanh Hoa	Female	VieG2052	
Vietnam	Vietnam	Bim Son, Thanh Hoa	Female	VieG2058	
Vietnam	Vietnam	Bim Son, Thanh Hoa	Female	VieG2059	

Table S2. Samples from previously published datasets

country/ region	Breed	individual	Code in ASD trees	Remark	Number per country/region	Source
1. Asian goats						
Iran	Bezoar	BEZ0001			7	Colli et al., 2018
Iran	Bezoar	BEZ0002				
Iran	Bezoar	BEZ0003				
Iran	Bezoar	BEZ0004				
Iran	Bezoar	BEZ0005				
Iran	Bezoar	BEZ0006				
Iran	Bezoar	BEZ0008				
Turkey	Ankara	ANK0001	ANK0001		81	Colli et al., 2018
Turkey	Ankara	ANK0003	ANK0003			
Turkey	Ankara	ANK0004	ANK0004			
Turkey	Ankara	ANK0005	ANK0005			
Turkey	Ankara	ANK0007	ANK0007			
Turkey	Ankara	ANK0008	ANK0008			
Turkey	Ankara	ANK0009	ANK0009			
Turkey	Ankara	ANK0010	ANK0010			
Turkey	Ankara	ANK0011	ANK0011			
Turkey	Ankara	ANK0014	ANK0014			
Turkey	Ankara	ANK0015	ANK0015			
Turkey	Ankara	ANK0016	ANK0016			
Turkey	Ankara	ANK0017	ANK0017			
Turkey	Ankara	ANK0018	ANK0018			
Turkey	Ankara	ANK0019	ANK0019			
Turkey	Ankara	ANK0020	ANK0020			
Turkey	Kil	KIL0001	KIL0001			
Turkey	Kil	KIL0002	KIL0002			
Turkey	Kil	KIL0003	KIL0003			
Turkey	Kil	KIL0004	KIL0004			
Turkey	Kil	KIL0005	KIL0005			
Turkey	Kil	KIL0006	KIL0006			
Turkey	Kil	KIL0007	KIL0007			
Turkey	Kil	KIL0008	KIL0008			
Turkey	Kil	KIL0009	KIL0009			
Turkey	Kil	KIL0010	KIL0010			
Turkey	Kil	KIL0011	KIL0011			
Turkey	Kil	KIL0012	KIL0012			
Turkey	Kil	KIL0013	KIL0013			
Turkey	Kil	KIL0014	KIL0014			
Turkey	Kil	KIL0015	KIL0015			
Turkey	Kil	KIL0016	KIL0016			
Turkey	Kil	KIL0017	KIL0017			
Turkey	Kil	KIL0018	KIL0018			
Turkey	Kil	KIL0019	KIL0019			
Turkey	Kil	KIL0020	KIL0020			
Turkey	Kil	KIL0021	KIL0021			
Turkey	Kil	KIL0022	KIL0022			
Turkey	Kil	KIL0023	KIL0023			
Turkey	Kil	KIL0024	KIL0024			
Turkey	Kil	KIL0025	KIL0025			
Turkey	Kilis	KLS0001	KLS0001			
Turkey	Kilis	KLS0002	KLS0002			
Turkey	Kilis	KLS0003	KLS0003			
Turkey	Kilis	KLS0004	KLS0004			
Turkey	Kilis	KLS0005	KLS0005			
Turkey	Kilis	KLS0006	KLS0006			
Turkey	Kilis	KLS0007	KLS0007			
Turkey	Kilis	KLS0008	KLS0008			
Turkey	Kilis	KLS0009	KLS0009			
Turkey	Kilis	KLS0010	KLS0010			
Turkey	Kilis	KLS0011	KLS0011			
Turkey	Kilis	KLS0012	KLS0012			
Turkey	Kilis	KLS0013	KLS0013			
Turkey	Kilis	KLS0014	KLS0014			
Turkey	Kilis	KLS0015	KLS0015			
Turkey	Kilis	KLS0016	KLS0016			
Turkey	Kilis	KLS0017	KLS0017			
Turkey	Kilis	KLS0018	KLS0018			
Turkey	Kilis	KLS0019	KLS0019			
Turkey	Kilis	KLS0020	KLS0020			
Turkey	Kilis	KLS0021	KLS0021			
Turkey	Kilis	KLS0022	KLS0022			
Turkey	Kilis	KLS0023	KLS0023			
Turkey	Kilis	KLS0024	KLS0024			
Turkey	Kilis	KLS0025	KLS0025			
Turkey	Kilis	KLS0026	KLS0026			
Turkey	Kilis	KLS0027	KLS0027			
Turkey	Kilis	KLS0028	KLS0028			
Turkey	Kilis	KLS0029	KLS0029			
Turkey	Kilis	KLS0030	KLS0030			
Turkey	Kilis	KLS0032	KLS0032			
Turkey	Kilis	KLS0033	KLS0033			
Turkey	Kilis	KLS0034	KLS0034			
Turkey	Kilis	KLS0035	KLS0035			
Turkey	Kilis	KLS0036	KLS0036			
Turkey	Kilis	KLS0037	KLS0037			
Turkey	Kilis	KLS0038	KLS0038			
Turkey	Kilis	KLS0039	KLS0039			
Turkey	Kilis	KLS0040	KLS0040			
Turkey	Kilis	KLS0041	KLS0041			
Iran	Kilis	IRA0001	IRA0001	outlier	9	Colli et al., 2018
Iran	Kilis	IRA0002	IRA0002			
Iran	Kilis	IRA0003	IRA0003			
Iran	Kilis	IRA0004	IRA0004			
Iran	Kilis	IRA0005	IRA0005	outlier		
Iran	Kilis	IRA0006	IRA0006			
Iran	Kilis	IRA0007	IRA0007			
Iran	Kilis	IRA0008	IRA0008			
Iran	Kilis	IRA0009	IRA0009			
Pakistan	Barbari	BAB0007	PKBAB0007		60	Colli et al., 2018
Pakistan	Barbari	BAB0014	PKBAB0014			
Pakistan	Bari	BRI0006	PKBRI0006			
Pakistan	Bari	BRI0008	PKBRI0008			
Pakistan	Bari	BRI0011	PKBRI0011			
Pakistan	Bari	BRI0024	PKBRI0024			
Pakistan	Bari	BRI0025	PKBRI0025			
Pakistan	Bari	BRI0027	PKBRI0027			
Pakistan	Bari	BRI0033	PKBRI0033			
Pakistan	Bugituri	BUT0002	PKBUT0002			
Pakistan	Bugituri	BUT0011	PKBUT0011			
Pakistan	Bugituri	BUT0025	PKBUT0025			
Pakistan	Bugituri	BUT0031	PKBUT0031			
Pakistan	Bugituri	BUT0033	PKBUT0033			
Pakistan	Bugituri	BUT0038	PKBUT0038			
Pakistan	Chappar	CHA0009	PKCHA0009			
Pakistan	Dera din Panah	DDP0006	PKDDP0006			
Pakistan	Dera din Panah	DDP0013	PKDDP0013			
Pakistan	Dera din Panah	DDP0014	PKDDP0014			
Pakistan	Dera din Panah	DDP0019	PKDDP0019			
Pakistan	Dera din Panah	DDP0021	PKDDP0021			
Pakistan	Jattan	JAT0006	PKJAT0006			
Pakistan		JAT0009	PKJAT0009			
Pakistan		JAT0011	PKJAT0011			
Pakistan		KAC0006	PKKAC0006			
Pakistan		KAC0011	PKKAC0011			
Pakistan		KAC0012	PKKAC0012			
Pakistan		KAC0015	PKKAC0015			
Pakistan		KAM0009	PKKAM0009			
Pakistan		KAM0012	PKKAM0012			
Pakistan		KAM0020	PKKAM0020			
Pakistan		KES0004	PKKES0004			
Pakistan		KES0007	PKKES0007			
Pakistan		LOH0016	PKLOH0016			
Pakistan		LOH0017	PKLOH0017			
Pakistan		LOH0024	PKLOH0024			
Pakistan		LOP0004	PKLOP0004			
Pakistan		LOP0007	PKLOP0007			
Pakistan		LOP0010	PKLOP0010			

Pakistan		LOP0016	PKLOP0016		
Pakistan		PAH0006	PKPAH0006		
Pakistan		PAH0007	PKPAH0007		
Pakistan		PAH0009	PKPAH0009		
Pakistan		PAT0007	PKPAT0007		
Pakistan		PAT0009	PKPAT0009		
Pakistan		PAT0024	PKPAT0024		
Pakistan		PAT0032	PKPAT0032		
Pakistan		TAP0001	PKTAP0001		
Pakistan		TAP0005	PKTAP0005		
Pakistan		TAP0014	PKTAP0014		
Pakistan		TED0001	PKTED0001		
Pakistan		TED0006	PKTED0006		
Pakistan		TED0023	PKTED0023		
Pakistan		TED0026	PKTED0026		
Pakistan		TED0027	PKTED0027		
Pakistan		TED0030	PKTED0030		
Pakistan		TED0031	PKTED0031		
Pakistan		TED0051	PKTED0051		
Pakistan		THA0007	PKTHA0007		
Pakistan		THA0016	PKTHA0016		
Xinjiang	Nanjiang	NJ1	XJNJ1	47	Berihulay et al., 2019
Xinjiang	Nanjiang	NJ16	XJNJ16		
Xinjiang	Nanjiang	NJ3	XJNJ3		
Xinjiang	Nanjiang	NJ17	XJNJ17		
Xinjiang	Nanjiang	NJ4	XJNJ4		
Xinjiang	Nanjiang	NJ19	XJNJ19		
Xinjiang	Nanjiang	NJ5	XJNJ5		
Xinjiang	Nanjiang	NJ21	XJNJ21		
Xinjiang	Nanjiang	NJ22	XJNJ22		
Xinjiang	Nanjiang	NJ7	XJNJ7		
Xinjiang	Nanjiang	NJ25	XJNJ25		
Xinjiang	Nanjiang	NJ8	XJNJ8		
Xinjiang	Nanjiang	NJ26	XJNJ26		
Xinjiang	Nanjiang	NJ10	XJNJ10		
Xinjiang	Nanjiang	NJ27	XJNJ27		
Xinjiang	Nanjiang	NJ12	XJNJ12		
Xinjiang	Nanjiang	NJ28	XJNJ28		
Xinjiang	Nanjiang	NJ13	XJNJ13		
Xinjiang	Nanjiang	NJ29	XJNJ29		
Xinjiang	Nanjiang	NJ14	XJNJ14		
Xinjiang	Nanjiang	NJ30	XJNJ30		
Xinjiang	Nanjiang	NJ15	XJNJ15		
Xinjiang	Nanjiang	NJ31	XJNJ31		
Xinjiang	Qinggeda	QG2	XJG2		
Xinjiang	Qinggeda	QG15	XJG15		
Xinjiang	Qinggeda	QG3	XJG3		
Xinjiang	Qinggeda	QG16	XJG16		
Xinjiang	Qinggeda	QG4	XJG4		
Xinjiang	Qinggeda	QG17	XJG17		
Xinjiang	Qinggeda	QG5	XJG5		
Xinjiang	Qinggeda	QG19	XJG19		
Xinjiang	Qinggeda	QG6	XJG6		
Xinjiang	Qinggeda	QG20	XJG20		
Xinjiang	Qinggeda	QG7	XJG7		
Xinjiang	Qinggeda	QG21	XJG21		
Xinjiang	Qinggeda	QG8	XJG8		
Xinjiang	Qinggeda	QG23	XJG23		
Xinjiang	Qinggeda	QG10	XJG10		
Xinjiang	Qinggeda	QG24	XJG24		
Xinjiang	Qinggeda	QG11	XJG11		crossbred outlier
Xinjiang	Qinggeda	QG25	XJG25		
Xinjiang	Qinggeda	QG12	XJG12		
Xinjiang	Qinggeda	QG28	XJG28		
Xinjiang	Qinggeda	QG13	XJG13		
Xinjiang	Qinggeda	QG29	XJG29		
Xinjiang	Qinggeda	QG14	XJG14		
Xinjiang	Qinggeda	QG32	XJG32		
InnerMongolia	Aarbas Cashmere	AC205011	IMAC205011	59	Berihulay et al., 2019
InnerMongolia	Aarbas Cashmere	AC304146	IMAC304146		
InnerMongolia	Aarbas Cashmere	AC305119	IMAC305119		
InnerMongolia	Aarbas Cashmere	AC4171	IMAC4171		
InnerMongolia	Aarbas Cashmere	AC104216	IMAC104216		
InnerMongolia	Aarbas Cashmere	AC205023	IMAC205023		
InnerMongolia	Aarbas Cashmere	AC204115	IMAC204115		
InnerMongolia	Aarbas Cashmere	AC306091	IMAC306091		
InnerMongolia	Aarbas Cashmere	AC204007	IMAC204007		
InnerMongolia	Aarbas Cashmere	AC102249	IMAC102249		
InnerMongolia	Aarbas Cashmere	AC410028	IMAC410028		
InnerMongolia	Aarbas Cashmere	AC105087	IMAC105087		
InnerMongolia	Aarbas Cashmere	AC103103	IMAC103103		
InnerMongolia	Aarbas Cashmere	AC305228	IMAC305228		
InnerMongolia	Aarbas Cashmere	AC106225	IMAC106225		
InnerMongolia	Aarbas Cashmere	AC301066	IMAC301066		
InnerMongolia	Aarbas Cashmere	AC205045	IMAC205045		
InnerMongolia	Aarbas Cashmere	AC405224	IMAC405224		
InnerMongolia	Aarbas Cashmere	AC301028	IMAC301028		
InnerMongolia	Aarbas Cashmere	AC5017	IMAC5017		
InnerMongolia	Aarbas Cashmere	AC201002	IMAC201002		
InnerMongolia	Aarbas Cashmere	AC304210	IMAC304210		
InnerMongolia	Aarbas Cashmere	AC404291	IMAC404291		
InnerMongolia	Aarbas Cashmere	AC205246	IMAC205246		
InnerMongolia	Aarbas Cashmere	AC6110	IMAC6110		
InnerMongolia	Aarbas Cashmere	AC305126	IMAC305126		
InnerMongolia	Aarbas Cashmere	AC402242	IMAC402242		
InnerMongolia	Aarbas Cashmere	AC106246	IMAC106246		
InnerMongolia	Aarbas Cashmere	AC406072	IMAC406072		
InnerMongolia	Aarbas Cashmere	AC200113	IMAC200113		
InnerMongolia	Aarbas Cashmere	AC523026	IMAC523026		
InnerMongolia	Aarbas Cashmere	AC306280	IMAC306280		
InnerMongolia	Aarbas Cashmere	AC511011	IMAC511011		
InnerMongolia	Aarbas Cashmere	AC305300	IMAC305300		
InnerMongolia	Aarbas Cashmere	AC304301	IMAC304301		
InnerMongolia	Aarbas Cashmere	AC311258	IMAC311258		
InnerMongolia	Aarbas Cashmere	AC513221	IMAC513221		
InnerMongolia	Aarbas Cashmere	AC405222	IMAC405222		
InnerMongolia	Aarbas Cashmere	AC302090	IMAC302090		
InnerMongolia	Aarbas Cashmere	AC319261	IMAC319261		
InnerMongolia	Aarbas Cashmere	AC204042	IMAC204042		
InnerMongolia	Aarbas Cashmere	AC516078	IMAC516078		
InnerMongolia	Aarbas Cashmere	AC302221	IMAC302221		
InnerMongolia	Aarbas Cashmere	AC520029	IMAC520029		
InnerMongolia	Aarbas Cashmere	AC304102	IMAC304102		
InnerMongolia	Aarbas Cashmere	AC518037	IMAC518037		
InnerMongolia	Aarbas Cashmere	AC416232	IMAC416232		
InnerMongolia	Aarbas Cashmere	AC512032	IMAC512032		
InnerMongolia	Aarbas Cashmere	AC519105	IMAC519105		
InnerMongolia	Aarbas Cashmere	AC512042	IMAC512042		
InnerMongolia	Aarbas Cashmere	AC304150	IMAC304150		
InnerMongolia	Aarbas Cashmere	AC520099	IMAC520099		
InnerMongolia	Aarbas Cashmere	AC511036	IMAC511036		
InnerMongolia	Aarbas Cashmere	AC401173	IMAC401173		
InnerMongolia	Aarbas Cashmere	AC404311	IMAC404311		
InnerMongolia	Aarbas Cashmere	AC510106	IMAC510106		
InnerMongolia	Aarbas Cashmere	AC405209	IMAC405209		
InnerMongolia	Aarbas Cashmere	AC319284	IMAC319284		
InnerMongolia	Aarbas Cashmere	AC211308	IMAC211308		
Shandong	Jining Grey	JN30183	SDJN30183	36	Berihulay et al., 2019
Shandong	Jining Grey	JN30319	SDJN30319		
Shandong	Jining Grey	JN30206	SDJN30206		
Shandong	Jining Grey	JN30329	SDJN30329		
Shandong	Jining Grey	JN5170	SDJN5170		
Shandong	Jining Grey	JN30366	SDJN30366		
Shandong	Jining Grey	JN30211	SDJN30211		
Shandong	Jining Grey	JN30374	SDJN30374		
Shandong	Jining Grey	JN30164	SDJN30164		
Shandong	Jining Grey	JN30369	SDJN30369		
Shandong	Jining Grey	JN30213	SDJN30213		
Shandong	Jining Grey	JN30803	SDJN30803		
Shandong	Jining Grey	JN30218	SDJN30218		
Shandong	Jining Grey	JN30393	SDJN30393		
Shandong	Jining Grey	JN30231	SDJN30231		

Shandong	Jining Grey	JN30809	SDJN30809		
Shandong	Jining Grey	JN30226	SDJN30226		
Shandong	Jining Grey	JN30400	SDJN30400		
Shandong	Jining Grey	JN30827	SDJN30827		
Shandong	Jining Grey	JN30230	SDJN30230		
Shandong	Jining Grey	JN30243	SDJN30243		
Shandong	Jining Grey	JN30868	SDJN30868		
Shandong	Jining Grey	JN30252	SDJN30252		
Shandong	Jining Grey	JN30249	SDJN30249		
Shandong	Jining Grey	JN30287	SDJN30287		
Shandong	Jining Grey	JN30255	SDJN30255		
Shandong	Jining Grey	JN30302	SDJN30302		
Shandong	Jining Grey	JN5123	SDJN5123		
Shandong	Jining Grey	JN30335	SDJN30335		
Shandong	Jining Grey	JN5125	SDJN5125		
Shandong	Jining Grey	JN30342	SDJN30342		
Shandong	Jining Grey	JN30291	SDJN30291		
Shandong	Jining Grey	JN5135	SDJN5135		
Shandong	Jining Grey	JN30349	SDJN30349		
Shandong	Jining Grey	JN5132	SDJN5132		
Shandong	Jining Grey	JN30139	SDJN30139		
Yunnan	Luoping Yellow	LP2	YNLP2	24	Berihulay et al., 2019
Yunnan	Luoping Yellow	LP29	YNLP29		
Yunnan	Luoping Yellow	LP5	YNLP5		
Yunnan	Luoping Yellow	LP30	YNLP30		
Yunnan	Luoping Yellow	LP8	YNLP8		
Yunnan	Luoping Yellow	LP31	YNLP31		
Yunnan	Luoping Yellow	LP10	YNLP10		
Yunnan	Luoping Yellow	LP32	YNLP32		
Yunnan	Luoping Yellow	LP12	YNLP12		
Yunnan	Luoping Yellow	LP33	YNLP33		
Yunnan	Luoping Yellow	LP13	YNLP13		
Yunnan	Luoping Yellow	LP34	YNLP34		
Yunnan	Luoping Yellow	LP15	YNLP15		
Yunnan	Luoping Yellow	LP35	YNLP35		
Yunnan	Luoping Yellow	LP18	YNLP18		
Yunnan	Luoping Yellow	LP36	YNLP36		
Yunnan	Luoping Yellow	LP23	YNLP23		
Yunnan	Luoping Yellow	LP37	YNLP37		
Yunnan	Luoping Yellow	LP25	YNLP25		
Yunnan	Luoping Yellow	LP38	YNLP38		
Yunnan	Luoping Yellow	LP26	YNLP26		
Yunnan	Luoping Yellow	LP39	YNLP39		
Yunnan	Luoping Yellow	LP28	YNLP28		
Yunnan	Luoping Yellow	LP40	YNLP40		
Jianxi	Guangfeng	GF1	JXGF1	23	Berihulay et al., 2019
Jianxi	Guangfeng	GF13	JXGF13		
Jianxi	Guangfeng	GF2	JXGF2		
Jianxi	Guangfeng	GF14	JXGF14		
Jianxi	Guangfeng	GF3	JXGF3		
Jianxi	Guangfeng	GF15	JXGF15		
Jianxi	Guangfeng	GF4	JXGF4		
Jianxi	Guangfeng	GF16	JXGF16		
Jianxi	Guangfeng	GF5	JXGF5		
Jianxi	Guangfeng	GF17	JXGF17		
Jianxi	Guangfeng	GF6	JXGF6		
Jianxi	Guangfeng	GF18	JXGF18		
Jianxi	Guangfeng	GF7	JXGF7		
Jianxi	Guangfeng	GF19	JXGF19		
Jianxi	Guangfeng	GF8	JXGF8		
Jianxi	Guangfeng	GF20	JXGF20		
Jianxi	Guangfeng	GF21	JXGF21		
Jianxi	Guangfeng	GF10	JXGF10		
Jianxi	Guangfeng	GF22	JXGF22		
Jianxi	Guangfeng	GF11	JXGF11		
Jianxi	Guangfeng	GF23	JXGF23		
Jianxi	Guangfeng	GF12	JXGF12		
Jianxi	Guangfeng	GF24	JXGF24		

2. European goats

England	Bagot	BAG0001		1	Colli et al., 2018
Finland	Finnish Landrace	LNR0121		20	
Finland	Finnish Landrace	LNR0122			
Finland	Finnish Landrace	LNR0123			
Finland	Finnish Landrace	LNR0124			
Finland	Finnish Landrace	LNR0125			
Finland	Finnish Landrace	LNR0126			
Finland	Finnish Landrace	LNR0127			
Finland	Finnish Landrace	LNR0128			
Finland	Finnish Landrace	LNR0129			
Finland	Finnish Landrace	LNR0130			
Finland	Finnish Landrace	LNR0131			
Finland	Finnish Landrace	LNR0132			
Finland	Finnish Landrace	LNR0133			
Finland	Finnish Landrace	LNR0134			
Finland	Finnish Landrace	LNR0135			
Finland	Finnish Landrace	LNR0136			
Finland	Finnish Landrace	LNR0137			
Finland	Finnish Landrace	LNR0138			
Finland	Finnish Landrace	LNR0139			
Finland	Finnish Landrace	LNR0140			
France	Alpine	ALP0161		176	Colli et al., 2018
France	Alpine	ALP0162			
France	Alpine	ALP0163			
France	Alpine	ALP0164			
France	Alpine	ALP0165			
France	Alpine	ALP0166			
France	Alpine	ALP0167			
France	Alpine	ALP0168			
France	Alpine	ALP0169			
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France	Alpine	ALP0171			
France	Alpine	ALP0172			
France	Alpine	ALP0173			
France	Alpine	ALP0174			
France	Alpine	ALP0175			
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France	Alpine	ALP0178			
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France	Alpine	ALP0180			
France	Alpine	ALP0181			
France	Alpine	ALP0182			
France	Alpine	ALP0183			
France	Alpine	ALP0184			
France	Alpine	ALP0185			
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France	Alpine	ALP0188			
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France	Alpine	ALP0190			
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France	Alpine	ALP0192			
France	Alpine	ALP0193			
France	Alpine	ALP0194			
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France	Alpine	ALP0197			
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France	Alpine	ALP0200			
France	Alpine	ALP0201			
France	Alpine	ALP0202			
France	Alpine	ALP0203			
France	Alpine	ALP0204			
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France	Alpine	ALP0209			
France	Alpine	ALP0210			
France	Alpine	ALP0211			
France	Alpine	ALP0212			

France	Corse	CRS0001		
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France	Corse	CRS0029		
France	Fosses	FSS0001		
France	Fosses	FSS0002		
France	Fosses	FSS0003		
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France	Fosses	FSS0006		
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France	Fosses	FSS0027		
France	Fosses	FSS0028		
France	Poitevine	PTV0001		
France	Poitevine	PTV0002		
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France	Poitevine	PTV0026		
France	Poitevine	PTV0027		
France	Poitevine	PTV0028		
France	Poitevine	PTV0029		
France	Poitevine	PTV0030		
France	Provençale	PVC0001		
France	Provençale	PVC0002		
France	Provençale	PVC0003		
France	Provençale	PVC0004		
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France	Provençale	PVC0006		
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France	Provençale	PVC0011		
France	Provençale	PVC0012		
France	Provençale	PVC0013		
France	Provençale	PVC0014		
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France	Provençale	PVC0018		
France	Pyreneam	PYR0001		
France	Pyreneam	PYR0002		
France	Pyreneam	PYR0003		
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France	Pyreneam	PYR0024		
France	Pyreneam	PYR0025		
France	Pyreneam	PYR0026		
France	Pyreneam	PYR0027		
France	Pyreneam	PYR0028		
Iceland	Icelandic	ICL0001	13	Colli et al., 2018
Iceland	Icelandic	ICL0002		
Iceland	Icelandic	ICL0003		
Iceland	Icelandic	ICL0004		
Iceland	Icelandic	ICL0005		
Iceland	Icelandic	ICL0006		
Iceland	Icelandic	ICL0007		
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Iceland	Icelandic	ICL0010		
Iceland	Icelandic	ICL0011		
Iceland	Icelandic	ICL0012		
Iceland	Icelandic	ICL0013		
Ireland	Icelandic	ARR0001	43	Colli et al., 2018
Ireland	Icelandic	ARR0002		
Ireland	Icelandic	ARR0003		
Ireland	Icelandic	ARR0004		
Ireland	Icelandic	ARR0006		

Ireland	Icelandic	ARR0007		
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Ireland	Icelandic	BLB0007		
Ireland	Icelandic	BLB0008		
Ireland	Icelandic	BLB0010		
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Ireland	Icelandic	OIGx0006		
Ireland	Icelandic	OIGx0007		
Ireland	Icelandic	OIGx0009		
Ireland	Icelandic	OIGx0010		
Italy	Alpine	ALP0001	463	Colli et al., 2018
Italy	Alpine	ALP0003		
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Italy	Ciociaira Grigia	CCG0002
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Italy	Jonica	JON0008
Italy	Jonica	JON0009
Italy	Jonica	JON0012
Italy	Maltese Sarda	MLS0001
Italy	Maltese Sarda	MLS0002
Italy	Maltese Sarda	MLS0003
Italy	Maltese Sarda	MLS0004
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Italy	Orobica	ORO0022
Italy	Orobica	ORO0024
Italy	Rossa Mediterranea	RME0018
Italy	Rossa Mediterranea	RME0022
Italy	Rossa Mediterranea	RME0023
Italy	Rossa Mediterranea	RME0026
Italy	Rossa Mediterranea	RME0029
Italy	Rossa Mediterranea	RME0030
Italy	Rossa Mediterranea	RME0031
Italy	Rossa Mediterranea	RME0032
Italy	Rossa Mediterranea	RME0036
Italy	Rossa Mediterranea	RME0038

Italy	Rossa Mediterranea	RME0042		
Italy	Rossa Mediterranea	RME0043		
Italy	Rossa Mediterranea	RME0046		
Italy	Sarda	SAR0003		
Italy	Sarda	SAR0004		
Italy	Sarda	SAR0008		
Italy	Sarda	SAR0009		
Italy	Sarda	SAR0010		
Italy	Sarda	SAR0012		
Italy	Sarda	SAR0013		
Italy	Sarda	SAR0014		
Italy	Sarda	SAR0015		
Italy	Sarda	SAR0017		
Italy	Sarda	SAR0018		
Italy	Sarda	SAR0019		
Italy	Sarda	SAR0020		
Italy	Sarda	SAR0021		
Italy	Sarda	SAR0022		
Italy	Sarda	SAR0023		
Italy	Sarda	SAR0024		
Italy	Sarda	SAR0025		
Italy	Sarda	SAR0026		
Italy	Sarda	SAR0027		
Italy	Sarda	SAR0028		
Italy	Sarda	SAR0029		
Italy	Sarda	SAR0030		
Italy	Sarda	SAR0031		
Italy	Valdostana	VAL0001		
Italy	Valdostana	VAL0002		
Italy	Valdostana	VAL0003		
Italy	Valdostana	VAL0004		
Italy	Valdostana	VAL0005		
Italy	Valdostana	VAL0006		
Italy	Valdostana	VAL0007		
Italy	Valdostana	VAL0008		
Italy	Valdostana	VAL0009		
Italy	Valdostana	VAL0010		
Italy	Valdostana	VAL0011		
Italy	Valdostana	VAL0012		
Italy	Valdostana	VAL0013		
Italy	Valdostana	VAL0014		
Italy	Valdostana	VAL0015		
Italy	Valdostana	VAL0016		
Italy	Valdostana	VAL0017		
Italy	Valdostana	VAL0018		
Italy	Valdostana	VAL0019		
Italy	Valdostana	VAL0020		
Italy	Valdostana	VAL0021		
Italy	Valdostana	VAL0022		
Italy	Valdostana	VAL0023		
Italy	Valdostana	VAL0024		
Italy	Valpassiria	VSS0001		
Italy	Valpassiria	VSS0002		
Italy	Valpassiria	VSS0003		
Italy	Valpassiria	VSS0004		
Italy	Valpassiria	VSS0005		
Italy	Valpassiria	VSS0006		
Italy	Valpassiria	VSS0007		
Italy	Valpassiria	VSS0008		
Italy	Valpassiria	VSS0009		
Italy	Valpassiria	VSS0010		
Italy	Valpassiria	VSS0011		
Italy	Valpassiria	VSS0012		
Italy	Valpassiria	VSS0013		
Italy	Valpassiria	VSS0014		
Italy	Valpassiria	VSS0015		
Italy	Valpassiria	VSS0016		
Italy	Valpassiria	VSS0017		
Italy	Valpassiria	VSS0018		
Italy	Valpassiria	VSS0019		
Italy	Valpassiria	VSS0020		
Italy	Valpassiria	VSS0021		
Italy	Valpassiria	VSS0022		
Italy	Valpassiria	VSS0023		
Italy	Valpassiria	VSS0024		
Netherlands	Dutch Landrace	LNR0141	15	Colli et al., 2018
Netherlands	Dutch Landrace	LNR0142		
Netherlands	Dutch Landrace	LNR0143		
Netherlands	Dutch Landrace	LNR0144		
Netherlands	Dutch Landrace	LNR0145		
Netherlands	Dutch Landrace	LNR0146		
Netherlands	Dutch Landrace	LNR0147		
Netherlands	Dutch Landrace	LNR0148		
Netherlands	Dutch Landrace	LNR0149		
Netherlands	Dutch Landrace	LNR0150		
Netherlands	Dutch Landrace	LNR0151		
Netherlands	Dutch Landrace	LNR0152		
Netherlands	Dutch Landrace	LNR0153		
Netherlands	Dutch Landrace	LNR0154		
Netherlands	Dutch Landrace	LNR0155		
Romania	Carpatian goat	CRP0002	13	Colli et al., 2018
Romania	Carpatian goat	CRP0003		
Romania	Carpatian goat	CRP0004		
Romania	Carpatian goat	CRP0005		
Romania	Carpatian goat	CRP0006		
Romania	Carpatian goat	CRP0007		
Romania	Carpatian goat	CRP0008		
Romania	Carpatian goat	CRP0009		
Romania	Carpatian goat	CRP0010		
Romania	Carpatian goat	CRP0011		
Romania	Carpatian goat	CRP0013		
Romania	Carpatian goat	CRP0014		
Romania	Carpatian goat	CRP0015		
Roumania	Carpatian goat	CRP0001		
Spain	Bermeya	BEY0001	139	Colli et al., 2018
Spain	Bermeya	BEY0002		
Spain	Bermeya	BEY0003		
Spain	Bermeya	BEY0004		
Spain	Bermeya	BEY0005		
Spain	Bermeya	BEY0006		
Spain	Bermeya	BEY0007		
Spain	Bermeya	BEY0008		
Spain	Bermeya	BEY0009		
Spain	Bermeya	BEY0010		
Spain	Bermeya	BEY0011		
Spain	Bermeya	BEY0012		
Spain	Bermeya	BEY0013		
Spain	Bermeya	BEY0014		
Spain	Bermeya	BEY0015		
Spain	Bermeya	BEY0016		
Spain	Bermeya	BEY0017		
Spain	Bermeya	BEY0018		
Spain	Bermeya	BEY0019		
Spain	Bermeya	BEY0020		
Spain	Bermeya	BEY0021		
Spain	Bermeya	BEY0022		
Spain	Bermeya	BEY0023		
Spain	Mallorquina	MAL0001		
Spain	Mallorquina	MAL0002		
Spain	Mallorquina	MAL0003		
Spain	Mallorquina	MAL0004		
Spain	Mallorquina	MAL0005		
Spain	Mallorquina	MAL0006		
Spain	Mallorquina	MAL0007		
Spain	Mallorquina	MAL0008		
Spain	Mallorquina	MAL0009		
Spain	Mallorquina	MAL0010		
Spain	Mallorquina	MAL0011		
Spain	Mallorquina	MAL0012		
Spain	Mallorquina	MAL0013		
Spain	Mallorquina	MAL0014		
Spain	Mallorquina	MAL0015		

Spain	Mallorquina	MAL0016		
Spain	Mallorquina	MAL0017		
Spain	Mallorquina	MAL0018		
Spain	Mallorquina	MAL0019		
Spain	Mallorquina	MAL0020		
Spain	Malaguena	MLG0001		
Spain	Malaguena	MLG0002		
Spain	Malaguena	MLG0003		
Spain	Malaguena	MLG0004		
Spain	Malaguena	MLG0005		
Spain	Malaguena	MLG0006		
Spain	Malaguena	MLG0007		
Spain	Malaguena	MLG0008		
Spain	Malaguena	MLG0009		
Spain	Malaguena	MLG0010		
Spain	Malaguena	MLG0011		
Spain	Malaguena	MLG0012		
Spain	Malaguena	MLG0013		
Spain	Malaguena	MLG0014		
Spain	Malaguena	MLG0015		
Spain	Malaguena	MLG0016		
Spain	Malaguena	MLG0017		
Spain	Malaguena	MLG0018		
Spain	Malaguena	MLG0019		
Spain	Malaguena	MLG0020		
Spain	Malaguena	MLG0022		
Spain	Malaguena	MLG0023		
Spain	Malaguena	MLG0024		
Spain	Malaguena	MLG0025		
Spain	Malaguena	MLG0026		
Spain	Malaguena	MLG0027		
Spain	Malaguena	MLG0028		
Spain	Malaguena	MLG0029		
Spain	Malaguena	MLG0030		
Spain	Malaguena	MLG0031		
Spain	Malaguena	MLG0032		
Spain	Malaguena	MLG0033		
Spain	Malaguena	MLG0034		
Spain	Malaguena	MLG0035		
Spain	Malaguena	MLG0036		
Spain	Malaguena	MLG0037		
Spain	Malaguena	MLG0038		
Spain	Malaguena	MLG0039		
Spain	Malaguena	MLG0040		
Spain	Malaguena	MLG0041		
Spain	Malaguena	MLG0042		
Spain	Murciano-Granadina	MUG0001		
Spain	Murciano-Granadina	MUG0002		
Spain	Murciano-Granadina	MUG0003		
Spain	Murciano-Granadina	MUG0004		
Spain	Murciano-Granadina	MUG0005		
Spain	Murciano-Granadina	MUG0006		
Spain	Murciano-Granadina	MUG0007		
Spain	Murciano-Granadina	MUG0008		
Spain	Murciano-Granadina	MUG0009		
Spain	Murciano-Granadina	MUG0010		
Spain	Murciano-Granadina	MUG0011		
Spain	Murciano-Granadina	MUG0012		
Spain	Murciano-Granadina	MUG0013		
Spain	Murciano-Granadina	MUG0014		
Spain	Murciano-Granadina	MUG0015		
Spain	Murciano-Granadina	MUG0016		
Spain	Murciano-Granadina	MUG0017		
Spain	Murciano-Granadina	MUG0018		
Spain	Murciano-Granadina	MUG0019		
Spain	Murciano-Granadina	MUG0020		
Spain	Palmera	PAL0001		
Spain	Palmera	PAL0002		
Spain	Palmera	PAL0003		
Spain	Palmera	PAL0004		
Spain	Palmera	PAL0005		
Spain	Palmera	PAL0006		
Spain	Palmera	PAL0007		
Spain	Palmera	PAL0008		
Spain	Palmera	PAL0009		
Spain	Palmera	PAL0010		
Spain	Palmera	PAL0011		
Spain	Palmera	PAL0012		
Spain	Palmera	PAL0013		
Spain	Palmera	PAL0014		
Spain	Palmera	PAL0015		
Spain	Blanca de Rasquera	RAS0001		
Spain	Blanca de Rasquera	RAS0002		
Spain	Blanca de Rasquera	RAS0003		
Spain	Blanca de Rasquera	RAS0004		
Spain	Blanca de Rasquera	RAS0005		
Spain	Blanca de Rasquera	RAS0006		
Spain	Blanca de Rasquera	RAS0007		
Spain	Blanca de Rasquera	RAS0008		
Spain	Blanca de Rasquera	RAS0009		
Spain	Blanca de Rasquera	RAS0010		
Spain	Blanca de Rasquera	RAS0011		
Spain	Blanca de Rasquera	RAS0012		
Spain	Blanca de Rasquera	RAS0013		
Spain	Blanca de Rasquera	RAS0014		
Spain	Blanca de Rasquera	RAS0015		
Spain	Blanca de Rasquera	RAS0016		
Spain	Blanca de Rasquera	RAS0017		
Spain	Blanca de Rasquera	RAS0018		
Spain	Blanca de Rasquera	RAS0019		
Spain	Blanca de Rasquera	RAS0020		
Switzerland	Alpine (Camosciata de Alp)	ALP0214	57	Colli et al., 2018
Switzerland	Alpine (Camosciata de Alp)	ALP0215		
Switzerland	Alpine (Camosciata de Alp)	ALP0216		
Switzerland	Alpine (Camosciata de Alp)	ALP0217		
Switzerland	Alpine (Camosciata de Alp)	ALP0218		
Switzerland	Alpine (Camosciata de Alp)	ALP0219		
Switzerland	Alpine (Camosciata de Alp)	ALP0220		
Switzerland	Alpine (Camosciata de Alp)	ALP0221		
Switzerland	Alpine (Camosciata de Alp)	ALP0222		
Switzerland	Alpine (Camosciata de Alp)	ALP0223		
Switzerland	Alpine (Camosciata de Alp)	ALP0224		
Switzerland	Alpine (Camosciata de Alp)	ALP0225		
Switzerland	Alpine (Camosciata de Alp)	ALP0226		
Switzerland	Alpine (Camosciata de Alp)	ALP0227		
Switzerland	Alpine (Camosciata de Alp)	ALP0228		
Switzerland	Alpine (Camosciata de Alp)	ALP0229		
Switzerland	Alpine (Camosciata de Alp)	ALP0231		
Switzerland	Alpine (Camosciata de Alp)	ALP0232		
Switzerland	Alpine (Camosciata de Alp)	ALP0233		
Switzerland	Alpine (Camosciata de Alp)	ALP0234		
Switzerland	Alpine (Camosciata de Alp)	ALP0235		
Switzerland	Alpine (Camosciata de Alp)	ALP0236		
Switzerland	Alpine (Camosciata de Alp)	ALP0237		
Switzerland	Alpine (Camosciata de Alp)	ALP0238		
Switzerland	Alpine (Camosciata de Alp)	ALP0241		
Switzerland	Alpine (Camosciata de Alp)	ALP0242		
Switzerland	Alpine (Camosciata de Alp)	ALP0244		
Switzerland	Alpine (Camosciata de Alp)	ALP0245		
Switzerland	Alpine (Camosciata de Alp)	ALP0246		
Switzerland	Alpine (Camosciata de Alp)	ALP0247		
Switzerland	Alpine (Camosciata de Alp)	ALP0248		
Switzerland	Alpine (Camosciata de Alp)	ALP0249		
Switzerland	Alpine (Camosciata de Alp)	ALP0250		
Switzerland	Alpine (Camosciata de Alp)	ALP0251		
Switzerland	Alpine (Camosciata de Alp)	ALP0252		
Switzerland	Alpine (Camosciata de Alp)	ALP0253		
Switzerland	Alpine (Camosciata de Alp)	ALP0254		
Switzerland	Alpine (Camosciata de Alp)	ALP0255		
Switzerland	Alpine (Camosciata de Alp)	ALP0256		
Switzerland	Alpine (Camosciata de Alp)	ALP0257		
Switzerland	Alpine (Camosciata de Alp)	ALP0258		

Switzerland	Alpine (Camosciata de	ALP0259		
Switzerland	Alpine (Camosciata de	ALP0260		
Switzerland	Alpine (Camosciata de	ALP0261		
Switzerland	Alpine (Camosciata de	ALP0262		
Switzerland	Alpine (Camosciata de	ALP0263		
Switzerland	Alpine (Camosciata de	ALP0264		
Switzerland	Alpine (Camosciata de	ALP0265		
Switzerland	Alpine (Camosciata de	ALP0266		
Switzerland	Alpine (Camosciata de	ALP0267		
Switzerland	Alpine (Camosciata de	ALP0269		
Switzerland	Alpine (Camosciata de	ALP0270		
Switzerland	Alpine (Camosciata de	ALP0271		
Switzerland	Alpine (Camosciata de	ALP0274		
Switzerland	Alpine (Camosciata de	ALP0275		
Switzerland	Alpine (Camosciata de	ALP0278		
Switzerland	Alpine (Camosciata de	ALP0277		
3. African goats				
BurkinaFaso	Djallonke	DJA0004	22	Colli et al., 2018
BurkinaFaso	Djallonke	DJA0005		
BurkinaFaso	Djallonke	DJA0006		
BurkinaFaso	Djallonke	DJA0007		
BurkinaFaso	Djallonke	DJA0008		
BurkinaFaso	Djallonke	DJA0009		
BurkinaFaso	Djallonke	DJA0010		
BurkinaFaso	Djallonke	DJA0011		
BurkinaFaso	Djallonke	DJA0012		
BurkinaFaso	Sahel	SAH0001		
BurkinaFaso	Sahel	SAH0002		
BurkinaFaso	Sahel	SAH0003		
BurkinaFaso	Sahel	SAH0004		
BurkinaFaso	Sahel	SAH0005		
BurkinaFaso	Sahel	SAH0006		
BurkinaFaso	Sahel	SAH0007		
BurkinaFaso	Sahel	SAH0008		
BurkinaFaso	Sahel	SAH0009		
BurkinaFaso	Sahel	SAH0010		
BurkinaFaso	Sahel	SAH0011		
BurkinaFaso	Sahel	SAH0012		
BurkinaFaso	Sahel	SAH0013		
Burundi	Burundi	BUR0001	64	Colli et al., 2018
Burundi	Burundi	BUR0002		
Burundi	Burundi	BUR0003		
Burundi	Burundi	BUR0004		
Burundi	Burundi	BUR0005		
Burundi	Burundi	BUR0006		
Burundi	Burundi	BUR0007		
Burundi	Burundi	BUR0008		
Burundi	Burundi	BUR0009		
Burundi	Burundi	BUR0010		
Burundi	Burundi	BUR0011		
Burundi	Burundi	BUR0012		
Burundi	Burundi	BUR0014		
Burundi	Burundi	BUR0015		
Burundi	Burundi	BUR0016		
Burundi	Burundi	BUR0017		
Burundi	Burundi	BUR0019		
Burundi	Burundi	BUR0020		
Burundi	Burundi	BUR0021		
Burundi	Burundi	BUR0022		
Burundi	Burundi	BUR0023		
Burundi	Burundi	BUR0024		
Burundi	Burundi	BUR0025		
Burundi	Burundi	BUR0026		
Burundi	Burundi	BUR0027		
Burundi	Burundi	BUR0029		
Burundi	Burundi	BUR0030		
Burundi	Burundi	BUR0031		
Burundi	Burundi	BUR0032		
Burundi	Burundi	BUR0033		
Burundi	Burundi	BUR0034		
Burundi	Burundi	BUR0035		
Burundi	Burundi	BUR0036		
Burundi	Burundi	BUR0037		
Burundi	Burundi	BUR0038		
Burundi	Burundi	BUR0039		
Burundi	Burundi	BUR0040		
Burundi	Burundi	BUR0041		
Burundi	Burundi	BUR0042		
Burundi	Burundi	BUR0044		
Burundi	Burundi	BUR0045		
Burundi	Burundi	BUR0046		
Burundi	Burundi	BUR0047		
Burundi	Burundi	BUR0049		
Burundi	Burundi	BUR0050		
Burundi	Burundi	BUR0052		
Burundi	Burundi	BUR0053		
Burundi	Burundi	BUR0054		
Burundi	Burundi	BUR0055		
Burundi	Burundi	BUR0056		
Burundi	Burundi	BUR0057		
Burundi	Burundi	BUR0059		
Burundi	Burundi	BUR0060		
Burundi	Burundi	BUR0061		
Burundi	Burundi	BUR0062		
Burundi	Burundi	BUR0063		
Burundi	Burundi	BUR0065		
Burundi	Burundi	BUR0066		
Burundi	Burundi	BUR0067		
Burundi	Burundi	BUR0068		
Burundi	Burundi	BUR0069		
Burundi	Burundi	BUR0070		
Burundi	Burundi	BUR0071		
Burundi	Burundi	BUR0072		
Cameroon	Cameroon Goat	CAM0002	73	Colli et al., 2018
Cameroon	Cameroon Goat	CAM0003		
Cameroon	Cameroon Goat	CAM0004		
Cameroon	Cameroon Goat	CAM0005		
Cameroon	Cameroon Goat	CAM0006		
Cameroon	Cameroon Goat	CAM0007		
Cameroon	Cameroon Goat	CAM0008		
Cameroon	Cameroon Goat	CAM0009		
Cameroon	Cameroon Goat	CAM0010		
Cameroon	Cameroon Goat	CAM0011		
Cameroon	Cameroon Goat	CAM0012		
Cameroon	Cameroon Goat	CAM0013		
Cameroon	Cameroon Goat	CAM0014		
Cameroon	Cameroon Goat	CAM0015		
Cameroon	Cameroon Goat	CAM0016		
Cameroon	Cameroon Goat	CAM0017		
Cameroon	Cameroon Goat	CAM0018		
Cameroon	Cameroon Goat	CAM0019		
Cameroon	Cameroon Goat	CAM0020		
Cameroon	Cameroon Goat	CAM0021		
Cameroon	Cameroon Goat	CAM0022		
Cameroon	Cameroon Goat	CAM0023		
Cameroon	Cameroon Goat	CAM0024		
Cameroon	Cameroon Goat	CAM0025		
Cameroon	Cameroon Goat	CAM0026		
Cameroon	Cameroon Goat	CAM0027		
Cameroon	Cameroon Goat	CAM0028		
Cameroon	Cameroon Goat	CAM0029		
Cameroon	Cameroon Goat	CAM0030		
Cameroon	Cameroon Goat	CAM0031		
Cameroon	Cameroon Goat	CAM0032		
Cameroon	Cameroon Goat	CAM0033		
Cameroon	Cameroon Goat	CAM0034		
Cameroon	Cameroon Goat	CAM0035		
Cameroon	Cameroon Goat	CAM0036		
Cameroon	Cameroon Goat	CAM0037		
Cameroon	Cameroon Goat	CAM0038		
Cameroon	Cameroon Goat	CAM0039		
Cameroon	Cameroon Goat	CAM0040		

Cameroon	West African Dwarf	WAD00024		
Cameroon	West African Dwarf	WAD00025		
Cameroon	West African Dwarf	WAD00026		
Cameroon	West African Dwarf	WAD00027		
Cameroon	West African Dwarf	WAD00028		
Cameroon	West African Dwarf	WAD00029		
Cameroon	West African Dwarf	WAD00030		
Cameroon	West African Dwarf	WAD00031		
Cameroon	West African Dwarf	WAD00032		
Cameroon	West African Dwarf	WAD00033		
Cameroon	West African Dwarf	WAD00034		
Cameroon	West African Dwarf	WAD00035		
Cameroon	West African Dwarf	WAD00036		
Cameroon	West African Dwarf	WAD00037		
Cameroon	West African Dwarf	WAD00038		
Cameroon	West African Dwarf	WAD00039		
Cameroon	West African Dwarf	WAD00040		
Cameroon	West African Dwarf	WAD00041		
Cameroon	West African Dwarf	WAD00042		
Cameroon	West African Dwarf	WAD00043		
Cameroon	West African Dwarf	WAD00044		
Cameroon	West African Dwarf	WAD00045		
Cameroon	West African Dwarf	WAD00046		
Cameroon	West African Dwarf	WAD00047		
Cameroon	West African Dwarf	WAD00048		
Cameroon	West African Dwarf	WAD00049		
Cameroon	West African Dwarf	WAD00050		
Cameroon	West African Dwarf	WAD00051		
Cameroon	West African Dwarf	WAD00052		
Cameroon	West African Dwarf	WAD00053		
Cameroon	West African Dwarf	WAD00054		
Cameroon	West African Dwarf	WAD00055		
Cameroon	West African Dwarf	WAD00056		
Cameroon	West African Dwarf	WAD00057		
Egypt	Barki	BRK00004	207	Colli et al., 2018
Egypt	Barki	BRK00006		
Egypt	Barki	BRK00007		
Egypt	Barki	BRK00008		
Egypt	Barki	BRK00010		
Egypt	Barki	BRK00013		
Egypt	Barki	BRK00014		
Egypt	Barki	BRK00015		
Egypt	Barki	BRK00016		
Egypt	Barki	BRK00018		
Egypt	Barki	BRK00019		
Egypt	Barki	BRK00021		
Egypt	Barki	BRK00022		
Egypt	Barki	BRK00023		
Egypt	Barki	BRK00024		
Egypt	Barki	BRK00025		
Egypt	Barki	BRK00026		
Egypt	Barki	BRK00027		
Egypt	Barki	BRK00028		
Egypt	Barki	BRK00029		
Egypt	Barki	BRK00030		
Egypt	Barki	BRK00031		
Egypt	Barki	BRK00033		
Egypt	Barki	BRK00034		
Egypt	Barki	BRK00035		
Egypt	Barki	BRK00036		
Egypt	Barki	BRK00038		
Egypt	Barki	BRK00039		
Egypt	Barki	BRK00040		
Egypt	Barki	BRK00042		
Egypt	Barki	BRK00043		
Egypt	Barki	BRK00044		
Egypt	Barki	BRK00046		
Egypt	Barki	BRK00047		
Egypt	Barki	BRK00048		
Egypt	Barki	BRK00049		
Egypt	Barki	BRK00050		
Egypt	Barki	BRK00051		
Egypt	Barki	BRK00052		
Egypt	Barki	BRK00053		
Egypt	Barki	BRK00054		
Egypt	Barki	BRK00055		
Egypt	Barki	BRK00057		
Egypt	Barki	BRK00058		
Egypt	Barki	BRK00059		
Egypt	Barki	BRK00060		
Egypt	Barki	BRK00061		
Egypt	Barki	BRK00062		
Egypt	Barki	BRK00063		
Egypt	Barki	BRK00064		
Egypt	Barki	BRK00065		
Egypt	Barki	BRK00066		
Egypt	Barki	BRK00067		
Egypt	Barki	BRK00069		
Egypt	Barki	BRK00070		
Egypt	Barki	BRK00071		
Egypt	Barki	BRK00072		
Egypt	Barki	BRK00079		
Egypt	Barki	BRK00081		
Egypt	Barki	BRK00082		
Egypt	Barki	BRK00083		
Egypt	Barki	BRK00085		
Egypt	Barki	BRK00086		
Egypt	Barki	BRK00087		
Egypt	Barki	BRK00088		
Egypt	Barki	BRK00092		
Egypt	Barki	BRK00093		
Egypt	Barki	BRK00094		
Egypt	Barki	BRK00096		
Egypt	Barki	BRK00097		
Egypt	Barki	BRK0100		
Egypt	Barki	BRK0103		
Egypt	Barki	BRK0104		
Egypt	Barki	BRK0108		
Egypt	Barki	BRK0110		
Egypt	Barki	BRK0111		
Egypt	Barki	BRK0112		
Egypt	Barki	BRK0113		
Egypt	Barki	BRK0114		
Egypt	Barki	BRK0115		
Egypt	Barki	BRK0117		
Egypt	Barki	BRK0119		
Egypt	Barki	BRK0120		
Egypt	Barki	BRK0121		
Egypt	Barki	BRK0123		
Egypt	Barki	BRK0124		
Egypt	Barki	BRK0126		
Egypt	Barki	BRK0127		
Egypt	Barki	BRK0128		
Egypt	Barki	BRK0130		
Egypt	Barki	BRK0132		
Egypt	Barki	BRK0134		
Egypt	Barki	BRK0135		
Egypt	Barki	BRK0136		
Egypt	Barki	BRK0137		
Egypt	Oasis	OSS0001		
Egypt	Oasis	OSS0002		
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Egypt	Oasis	OSS0046
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Egypt	Oasis	OSS0050
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Egypt	Oasis	OSS0070
Egypt	Oasis	OSS0071
Egypt	Oasis	OSS0072
Egypt	Saidi	SID0001
Egypt	Saidi	SID0005
Egypt	Saidi	SID0007
Egypt	Saidi	SID0008
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Egypt	Saidi	SID0010
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Egypt	Saidi	SID0043
Egypt	Saidi	SID0044
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Egypt	Saidi	SID0050
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Egypt	Saidi	SID0053
Egypt	Saidi	SID0057
Egypt	Saidi	SID0058
Egypt	Saidi	SID0059
Egypt	Saidi	SID0060
Ethiopia	Abergelle	ABR0001
Ethiopia	Abergelle	ABR0002
Ethiopia	Abergelle	ABR0003
Ethiopia	Abergelle	ABR0004
Ethiopia	Abergelle	ABR0005
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Ethiopia	Abergelle	ABR0044
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Ethiopia	Abergelle	ABR0046

Kenya	Galla	GAL0004		
Kenya	Galla	GAL0006		
Kenya	Galla	GAL0008		
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Kenya	Small East African	SEA0032		
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Kenya	Small East African	SEA0034		
Kenya	Toggenburg	TOG0001		
Madagascar	Androy	AND0001	77	Colli et al., 2018
Madagascar	Androy	AND0002		
Madagascar	Androy	AND0004		
Madagascar	Androy	AND0005		
Madagascar	Androy	AND0006	6	
Madagascar	Androy	AND0007		
Madagascar	Diana	DIA0001		
Madagascar	Diana	DIA0002		
Madagascar	Diana	DIA0003		
Madagascar	Diana	DIA0004		
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Madagascar	Diana	DIA0007		
Madagascar	Diana	DIA0008		
Madagascar	Diana	DIA0009		
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Madagascar	Diana	DIA0011		
Madagascar	Diana	DIA0012		
Madagascar	Diana	DIA0013		
Madagascar	Diana	DIA0014		
Madagascar	Diana	DIA0015		
Madagascar	Diana	DIA0016		
Madagascar	Diana	DIA0017		
Madagascar	Menabe	MEN0001		
Madagascar	Menabe	MEN0002		
Madagascar	Menabe	MEN0003		
Madagascar	Menabe	MEN0005		
Madagascar	Menabe	MEN0006		
Madagascar	Menabe	MEN0007		
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Madagascar	Menabe	MEN0017		
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Madagascar	Sofia	SOF0001		
Madagascar	Sofia	SOF0002		
Madagascar	Sofia	SOF0003		
Madagascar	Sofia	SOF0004		
Madagascar	Sofia	SOF0005		
Madagascar	Sofia	SOF0006		
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Madagascar	Sofia	SOF0021		
Madagascar	Sofia	SOF0022		
Madagascar	Sofia	SOF0023		
Madagascar	Sofia	SOF0024		
Madagascar	SudOuest	SOU0001		
Madagascar	SudOuest	SOU0002		
Madagascar	SudOuest	SOU0003		
Madagascar	SudOuest	SOU0004		
Madagascar	SudOuest	SOU0005		
Madagascar	SudOuest	SOU0006		
Madagascar	SudOuest	SOU0007		
Madagascar	SudOuest	SOU0008		
Madagascar	SudOuest	SOU0009		
Madagascar	SudOuest	SOU0010		
Malawi	Balaka-Ulongwe	BAW0001	44	Colli et al., 2018
Malawi	Balaka-Ulongwe	BAW0002		
Malawi	Balaka-Ulongwe	BAW0003		
Malawi	Balaka-Ulongwe	BAW0004		
Malawi	Balaka-Ulongwe	BAW0005		
Malawi	Balaka-Ulongwe	BAW0006		
Malawi	Balaka-Ulongwe	BAW0007		
Malawi	Balaka-Ulongwe	BAW0008		
Malawi	Balaka-Ulongwe	BAW0009		
Malawi	Balaka-Ulongwe	BAW0010		
Malawi	Balaka-Ulongwe	BAW0011		
Malawi	Balaka-Ulongwe	BAW0012		
Malawi	Dedza	DZD0001		

Malawi	Dedza	DZD0002	127	Colli et al., 2018
Malawi	Dedza	DZD0003		
Malawi	Dedza	DZD0004		
Malawi	Dedza	DZD0005		
Malawi	Dedza	DZD0006		
Malawi	Dedza	DZD0007		
Malawi	Dedza	DZD0008		
Malawi	Dedza	DZD0009		
Malawi	Dedza	DZD0010		
Malawi	Dedza	DZD0011		
Malawi	Dedza	DZD0012		
Malawi	Dedza	DZD0013		
Malawi	Dedza	DZD0014		
Malawi	Dedza	DZD0015		
Malawi	Lilongwe	LGW0001		
Malawi	Lilongwe	LGW0002		
Malawi	Lilongwe	LGW0004		
Malawi	Lilongwe	LGW0005		
Malawi	Nsanje	NSJ0002		
Malawi	Nsanje	NSJ0003		
Malawi	Nsanje	NSJ0004		
Malawi	Nsanje	NSJ0006		
Malawi	Thyolo	THY0001		
Malawi	Thyolo	THY0002		
Malawi	Thyolo	THY0003		
Malawi	Thyolo	THY0004		
Malawi	Thyolo	THY0005		
Malawi	Thyolo	THY0006		
Malawi	Thyolo	THY0007		
Malawi	Thyolo	THY0008		
Malawi	Thyolo	THY0009		
Mali	Guera	GUE0001		
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Mali	Targui	TAR0001		
Mali	Targui	TAR0002		
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Mali	Targui	TAR0007	30	Colli et al., 2018
Mali	Targui	TAR0008		
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Mali	Targui	TAR0020	55	Colli et al., 2018
Mali	Targui	TAR0021		
Mali	Targui	TAR0022		
Morocco	Barcha	BAR0001		
Morocco	Barcha	BAR0002		
Morocco	Barcha	BAR0003		
Morocco	Barcha	BAR0004		
Morocco	Draa	DRA0001		
Morocco	Draa	DRA0002		
Morocco	Draa	DRA0003		
Morocco	Draa	DRA0004		
Morocco	Ghazalia	GHA0001		
Morocco	Ghazalia	GHA0002		
Morocco	Ghazalia	GHA0003		
Morocco	Ghazalia	GHA0004		
Morocco	Moroccan goat (unkno	MOR0001		
Morocco	Moroccan goat (unkno	MOR0002		
Morocco	Moroccan goat (unkno	MOR0003		
Morocco	Moroccan goat (unkno	MOR0004		
Morocco	Moroccan goat (unkno	MOR0005		
Morocco	Moroccan goat (unkno	MOR0006		
Morocco	Moroccan goat (unkno	MOR0007		
Morocco	Moroccan goat (unkno	MOR0008		
Morocco	Moroccan goat (unkno	MOR0009		
Morocco	Moroccan goat (unkno	MOR0010		
Morocco	Noire de l'Atlas	NDA0001	55	Colli et al., 2018
Morocco	Noire de l'Atlas	NDA0002		
Morocco	Noire de l'Atlas	NDA0003		
Morocco	Noire de l'Atlas	NDA0004		
Morocco	Nord	NOR0001		
Morocco	Nord	NOR0002		
Morocco	Nord	NOR0003		
Morocco	Nord	NOR0004		
Mozambique	Gaza	GAZ0001		
Mozambique	Gaza	GAZ0002		
Mozambique	Gaza	GAZ0004		
Mozambique	Gaza	GAZ0005		
Mozambique	Landin	LND0001		
Mozambique	Landin	LND0002		
Mozambique	Landin	LND0003		
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Mozambique	Landin	LND0006		
Mozambique	Landin	LND0007		
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Mozambique	Landin	LND0026		
Mozambique	Landin	LND0027		
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Mozambique	Landin	LND0031		
Mozambique	Landin	LND0032		
Mozambique	Landin	LND0033		
Mozambique	Manica	MAN0001	59	Colli et al., 2018
Mozambique	Manica	MAN0002		
Mozambique	Manica	MAN0003		
Mozambique	Pafuri	PAF0002		
Mozambique	Pafuri	PAF0003		
Mozambique	Pafuri	PAF0004		
Mozambique	Pafuri	PAF0005		
Mozambique	Small East African	SEA0051		
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Mozambique	Small East African	SEA0060		
Mozambique	Tete	TET0002		
Mozambique	Tete	TET0003		
Nigeria	Red Sokoto	RSK0001	59	Colli et al., 2018
Nigeria	Red Sokoto	RSK0002		
Nigeria	Red Sokoto	RSK0003		
Nigeria	Red Sokoto	RSK0005		
Nigeria	Red Sokoto	RSK0007		
Nigeria	Red Sokoto	RSK0008		
Nigeria	Red Sokoto	RSK0009		
Nigeria	Red Sokoto	RSK0011		
Nigeria	Red Sokoto	RSK0012		
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Nigeria	Red Sokoto	RSK0016		
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Nigeria	Red Sokoto	RSK0019		
Nigeria	Red Sokoto	RSK0020		
Nigeria	Red Sokoto	RSK0021		
Nigeria	Red Sokoto	RSK0022		
Nigeria	Sahel	SHL0001	59	Colli et al., 2018
Nigeria	Sahel	SHL0002		
Nigeria	Sahel	SHL0003		
Nigeria	Sahel	SHL0004		
Nigeria	Sahel	SHL0005		
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Nigeria	Sahel	SHL0013		
Nigeria	Sahel	SHL0014		
Nigeria	Sahel	SHL0015		
Nigeria	Sahel	SHL0016		
Nigeria	Sahel	SHL0018		
Nigeria	Sahel	SHL0021		
Nigeria	Sahel	SHL0022		
Nigeria	West African Dwarf	WAD0001	59	Colli et al., 2018
Nigeria	West African Dwarf	WAD0002		
Nigeria	West African Dwarf	WAD0003		

Nigeria	West African Dwarf	WAD0004	92	Colli et al., 2018
Nigeria	West African Dwarf	WAD0005		
Nigeria	West African Dwarf	WAD0006		
Nigeria	West African Dwarf	WAD0007		
Nigeria	West African Dwarf	WAD0008		
Nigeria	West African Dwarf	WAD0009		
Nigeria	West African Dwarf	WAD0010		
Nigeria	West African Dwarf	WAD0011		
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Nigeria	West African Dwarf	WAD0017		
Nigeria	West African Dwarf	WAD0018		
Nigeria	West African Dwarf	WAD0019		
Nigeria	West African Dwarf	WAD0022		
Nigeria	West African Dwarf	WAD0023		
Tanzania	Gogo	GOG0002		
Tanzania	Gogo	GOG0003		
Tanzania	Gogo	GOG0004		
Tanzania	Gogo	GOG0005		
Tanzania	Gogo	GOG0006		
Tanzania	Gogo	GOG0007		
Tanzania	Gogo	GOG0008		
Tanzania	Gogo	GOG0009		
Tanzania	Gogo	GOG0010		
Tanzania	Gogo	GOG0011		
Tanzania	Gogo	GOG0012		
Tanzania	Gogo	GOG0013		
Tanzania	Maasai	MAA0001		
Tanzania	Maasai	MAA0002		
Tanzania	Maasai	MAA0003		
Tanzania	Maasai	MAA0004		
Tanzania	Maasai	MAA0005		
Tanzania	Maasai	MAA0006		
Tanzania	Maasai	MAA0007		
Tanzania	Maasai	MAA0008		
Tanzania	Maasai	MAA0009		
Tanzania	Maasai	MAA0010		
Tanzania	Maasai	MAA0011		
Tanzania	Maasai	MAA0012		
Tanzania	Maasai	MAA0013		
Tanzania	Maasai	MAA0014		
Tanzania	Maasai	MAA0015		
Tanzania	Maasai	MAA0016		
Tanzania	Maasai	MAA0017		
Tanzania	Maasai	MAA0018		
Tanzania	Maasai	MAA0019		
Tanzania	Maasai	MAA0020		
Tanzania	Norwegian	NRW0001	23	Colli et al., 2018
Tanzania	Norwegian	NRW0002		
Tanzania	Norwegian	NRW0003		
Tanzania	Norwegian	NRW0005		
Tanzania	Norwegian	NRW0006		
Tanzania	Norwegian	NRW0007		
Tanzania	Norwegian	NRW0008		
Tanzania	Norwegian	NRW0011		
Tanzania	Norwegian	NRW0012		
Tanzania	Norwegian	NRW0013		
Tanzania	Norwegian	NRW0014		
Tanzania	Norwegian	NRW0015		
Tanzania	Norwegian	NRW0016		
Tanzania	Norwegian	NRW0018		
Tanzania	Pare White	PRW0001		
Tanzania	Pare White	PRW0002		
Tanzania	Pare White	PRW0003		
Tanzania	Pare White	PRW0004		
Tanzania	Pare White	PRW0005		
Tanzania	Pare White	PRW0006		
Tanzania	Pare White	PRW0007		
Tanzania	Pare White	PRW0008		
Tanzania	Pare White	PRW0009		
Tanzania	Pare White	PRW0010		
Tanzania	Pare White	PRW0011		
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Tanzania	Pare White	PRW0015		
Tanzania	Pare White	PRW0016		
Tanzania	Pare White	PRW0017		
Tanzania	Pare White	PRW0018		
Tanzania	Pare White	PRW0019		
Tanzania	Pare White	PRW0020		
Tanzania	Pare White	PRW0021		
Tanzania	Pare White	PRW0022		
Tanzania	Sonjo	SNJ0005	104	Colli et al., 2018
Tanzania	Sonjo	SNJ0006		
Tanzania	Sonjo	SNJ0007		
Tanzania	Sonjo	SNJ0010		
Tanzania	Sonjo	SNJ0011		
Tanzania	Sonjo	SNJ0012		
Tanzania	Sonjo	SNJ0013		
Tanzania	Sonjo	SNJ0014		
Tanzania	Sonjo	SNJ0015		
Tanzania	Sonjo	SNJ0016		
Tanzania	Sonjo	SNJ0017		
Tanzania	Sonjo	SNJ0019		
Tanzania	Sonjo	SNJ0020		
Tanzania	Sonjo	SNJ0021		
Tanzania	Sonjo	SNJ0022		
Tanzania	Toggenburg	TOG0005		
Tanzania	Toggenburg	TOG0006		
Tanzania	Toggenburg	TOG0007		
Tanzania	Toggenburg	TOG0008		
Tanzania	Toggenburg	TOG0014		
Tanzania	Toggenburg	TOG0015		
Tanzania	Toggenburg	TOG0016		
Tanzania	Toggenburg	TOG0017		
Tanzania	Toggenburg	TOG0020		
Tunisia	Tunisian	TUN0001		
Tunisia	Tunisian	TUN0002		
Tunisia	Tunisian	TUN0003		
Tunisia	Tunisian	TUN0004		
Tunisia	Tunisian	TUN0005		
Tunisia	Tunisian	TUN0006		
Tunisia	Tunisian	TUN0007		
Tunisia	Tunisian	TUN0008		
Tunisia	Tunisian	TUN0009		
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Tunisia	Tunisian	TUN0011		
Tunisia	Tunisian	TUN0012		
Tunisia	Tunisian	TUN0013		
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Tunisia	Tunisian	TUN0016		
Tunisia	Tunisian	TUN0017		
Tunisia	Tunisian	TUN0018		
Tunisia	Tunisian	TUN0019		
Tunisia	Tunisian	TUN0020		
Tunisia	Tunisian	TUN0021		
Tunisia	Tunisian	TUN0022		
Tunisia	Tunisian	TUN0023		
Uganda	Local Cross	CRO0001	104	Colli et al., 2018
Uganda	Local Cross	CRO0002		
Uganda	Local Cross	CRO0003		
Uganda	Local Cross	CRO0004		
Uganda	Local Cross	CRO0005		
Uganda	Gishu	GSH0001		
Uganda	Gishu	GSH0002		
Uganda	Gishu	GSH0003		
Uganda	Karamonja	KAR0001		

Uganda	Karamonja	KAR0002
Uganda	Karamonja	KAR0004
Uganda	Karamonja	KAR0005
Uganda	Karamonja	KAR0006
Uganda	Karamonja	KAR0007
Uganda	Karamonja	KAR0008
Uganda	Karamonja	KAR0009
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Uganda	Karamonja	KAR0016
Uganda	Karamonja	KAR0017
Uganda	Karamonja	KAR0018
Uganda	Karamonja	KAR0020
Uganda	Karamonja	KAR0021
Uganda	Kigezi	KIG0001
Uganda	Kigezi	KIG0002
Uganda	Kigezi	KIG0003
Uganda	Kigezi	KIG0004
Uganda	Kigezi	KIG0005
Uganda	Mubende	MUB0001
Uganda	Mubende	MUB0003
Uganda	Mubende	MUB0004
Uganda	Mubende	MUB0005
Uganda	Mubende	MUB0007
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Uganda	Mubende	MUB0016
Uganda	Mubende	MUB0017
Uganda	Mubende	MUB0018
Uganda	Mubende	MUB0020
Uganda	Mubende	MUB0021
Uganda	Mubende	MUB0022
Uganda	Mubende	MUB0023
Uganda	Mubende	MUB0024
Uganda	Mubende	MUBx0001
Uganda	Mubende	MUBx0002
Uganda	Mubende	MUBx0003
Uganda	Nganda	NGD0001
Uganda	Nganda	NGD0002
Uganda	Nganda	NGD0003
Uganda	Nganda	NGD0004
Uganda	Nganda	NGD0005
Uganda	Nganda	NGD0006
Uganda	Nganda	NGD0007
Uganda	Nganda	NGD0008
Uganda	Nganda	NGD0009
Uganda	Nganda	NGD0010
Uganda	Nganda	NGD0011
Uganda	Small East African	SEA0035
Uganda	Small East African	SEA0036
Uganda	Small East African	SEA0037
Uganda	Small East African	SEA0038
Uganda	Small East African	SEA0039
Uganda	Small East African	SEA0040
Uganda	Small East African	SEA0041
Uganda	Small East African	SEA0042
Uganda	Small East African	SEA0043
Uganda	Small East African	SEA0044
Uganda	Small East African	SEA0045
Uganda	Small East African	SEA0046
Uganda	Small East African	SEA0048
Uganda	Small East African	SEA0049
Uganda	Small East African	SEA0050
Uganda	Sebei	SEB0002
Uganda	Sebei	SEB0003
Uganda	Sebei	SEB0004
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Uganda	Sebei	SEB0017
Uganda	Sebei	SEB0019
Uganda	Sebei	SEB0020
Uganda	Sebei	SEB0021
Uganda	Sebei	SEB0022
Uganda	Sebei	SEB0023
Uganda	Sebei	SEB0024
Zimbabwe	Mashona	MSH0001
Zimbabwe	Mashona	MSH0002
Zimbabwe	Mashona	MSH0003
Zimbabwe	Mashona	MSH0004
Zimbabwe	Mashona	MSH0005
Zimbabwe	Mashona	MSH0006
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Zimbabwe	Mashona	MSH0022
Zimbabwe	Mashona	MSH0023
Zimbabwe	Matebele	MTB0001
Zimbabwe	Matebele	MTB0002
Zimbabwe	Matebele	MTB0003
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Zimbabwe	Matebele	MTB0022
Zimbabwe	Matebele	MTB0023
Zimbabwe	Matebele	MTB0024

Zimbabwe	Matebele	MTB0025
Zimbabwe	Matebele	MTB0026
Zimbabwe	Matebele	MTBx0001
Zimbabwe	Matebele	MTBx0002
Zimbabwe	Matebele	MTBx0003
Zimbabwe	Matebele	MTBx0004
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Zimbabwe	Matebele	MTBx0022
Zimbabwe	Matebele	MTBx0023
Zimbabwe	Matebele	MTBx0024
