

TABLE S1. Summary of sheep used in this study.

sample_name	sample_accession	biosamples_id	sample_provider	species	taxonomy_id	breed	country
IROA-B2-5296	ERS239046	SAMEA2065588	NEXTGEN	Ovis aries	9940	.	Iran
IROA-B3-5134	ERS239047	SAMEA2065589	NEXTGEN	Ovis aries	9940	.	Iran
IROA-B4-5190	ERS154865	SAMEA2012929	NEXTGEN	Ovis aries	9940	.	Iran
IROA-B5-5295	ERS154863	SAMEA2012927	NEXTGEN	Ovis aries	9940	.	Iran
IROA-B6-5139	ERS239048	SAMEA2065590	NEXTGEN	Ovis aries	9940	.	Iran
IROA-C3-5212	ERS154869	SAMEA2012933	NEXTGEN	Ovis aries	9940	.	Iran
IROA-C6-5187	ERS239049	SAMEA2065591	NEXTGEN	Ovis aries	9940	.	Iran
IROA-C7-5042	ERS239050	SAMEA2065592	NEXTGEN	Ovis aries	9940	.	Iran
IROA-D5-5081	ERS239051	SAMEA2065593	NEXTGEN	Ovis aries	9940	.	Iran
IROA-D6-5152	ERS154866	SAMEA2012930	NEXTGEN	Ovis aries	9940	.	Iran
IROA-D7-5033	ERS239052	SAMEA2065594	NEXTGEN	Ovis aries	9940	.	Iran
IROA-E5-5157	ERS239053	SAMEA2065595	NEXTGEN	Ovis aries	9940	.	Iran
IROA-E6-5351	ERS239054	SAMEA2065596	NEXTGEN	Ovis aries	9940	.	Iran
IROA-E7-5036	ERS239055	SAMEA2065597	NEXTGEN	Ovis aries	9940	.	Iran
IROA-F10-5068	ERS239056	SAMEA2065598	NEXTGEN	Ovis aries	9940	.	Iran
IROA-F3-5142	ERS154867	SAMEA2012931	NEXTGEN	Ovis aries	9940	.	Iran
IROA-F5-5051	ERS154868	SAMEA2012932	NEXTGEN	Ovis aries	9940	.	Iran
IROA-G3-5095	ERS239057	SAMEA2065599	NEXTGEN	Ovis aries	9940	.	Iran
IROA-G4-5205	ERS154862	SAMEA2012926	NEXTGEN	Ovis aries	9940	.	Iran
IROO-C3-0001	ERS154526	SAMEA2012637	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-D6-0002	ERS154527	SAMEA2012638	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-D6-0005	ERS154530	SAMEA2012641	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-E3-5492	ERS154533	SAMEA2012643	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-E5-5146	ERS154531	SAMEA2012642	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-J11-0602	ERS239060	SAMEA2065602	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-J11-0905	ERS239061	SAMEA2065603	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-K7-2301	ERS419581	SAMEA2395411	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-K7-2303	ERS419580	SAMEA2395410	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-M12-9997	ERS239022	SAMEA1964491	NEXTGEN	Ovis orientalis	469796	.	Iran
IROO-N13-5061	ERS239063	SAMEA2065604	NEXTGEN	Ovis orientalis	469796	.	Iran
IROV-AB8-1004	ERS403315	SAMEA2358289	NEXTGEN	Ovis vignei	59896	.	Iran
IROV-AB8-1005	ERS403316	SAMEA2358290	NEXTGEN	Ovis vignei	59896	.	Iran
IROV-AB8-1006	ERS403317	SAMEA2358291	NEXTGEN	Ovis vignei	59896	.	Iran
IROV-AD7-1002	ERS403313	SAMEA2358287	NEXTGEN	Ovis vignei	59896	.	Iran
MOOA-J17-1384	ERS154709	SAMEA2012231	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-L15-0414	ERS154724	SAMEA2012246	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-L19-1322	ERS154726	SAMEA2012248	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-M17-1293	ERS154734	SAMEA2012324	NEXTGEN	Ovis aries	9940	D'man	Morocco
MOOA-O11-0271	ERS154746	SAMEA2012336	NEXTGEN	Ovis aries	9940	Sardi	Morocco
MOOA-O9-3220	ERS154751	SAMEA2012340	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-Q12-0163	ERS154764	SAMEA2012431	NEXTGEN	Ovis aries	9940	Sardi	Morocco
MOOA-R10-0005	ERS154762	SAMEA1967786	NEXTGEN	Ovis aries	9940	Boujaad	Morocco
MOOA-R5-0027	ERS154776	SAMEA2012442	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-S11-0138	ERS154782	SAMEA2012524	NEXTGEN	Ovis aries	9940	Timahdite	Morocco
MOOA-T10-0238	ERS154797	SAMEA2012537	NEXTGEN	Ovis aries	9940	Timahdite	Morocco
MOOA-T5-0041	ERS154802	SAMEA2012589	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-T7-3100	ERS154805	SAMEA2012592	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-U10-0242	ERS154810	SAMEA2012596	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-U11-1027	ERS154811	SAMEA2012597	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-U14-1068	ERS154814	SAMEA2012600	NEXTGEN	Ovis aries	9940	D'man	Morocco
MOOA-W8-2287	ERS154838	SAMEA2012853	NEXTGEN	Ovis aries	9940	Beni Guil	Morocco
MOOA-X11-1023	ERS154834	SAMEA2012849	NEXTGEN	Ovis aries	9940	local populations	Morocco
MOOA-Z11-2196	ERS154856	SAMEA2012920	NEXTGEN	Ovis aries	9940	Ouled Djellal	Morocco
MOOA-Z9-2154	ERS154861	SAMEA2012925	NEXTGEN	Ovis aries	9940	Ouled Djellal	Morocco
OARI_BCS3	SRS335706	SAMN01000774	ISGC	Ovis aries	9940	Brazilian Creole	Americas
OARI_BMN4	SRS335671	SAMN01000739	ISGC	Ovis aries	9940	Morada Nova	Americas
OARI_BS14	SRS335670	SAMN01000738	ISGC	Ovis aries	9940	Santa Inês	Americas
OARI_CAS3	SRS335688	SAMN01000756	ISGC	Ovis aries	9940	Castellana	SW Europe
OARI_FIN1	SRS335716	SAMN01000784	ISGC	Ovis aries	9940	Finnshoop	orthern Europe
OARI_GAR4	SRS335736	SAMN01000804	ISGC	Ovis aries	9940	Indian Garole	Asia
OARI_GCN5	SRS335738	SAMN01000806	ISGC	Ovis aries	9940	Gulf Coast native	Americas
OARI_KRS5	SRS335681	SAMN01000749	ISGC	Ovis aries	9940	Karakas	SW Asia
OARI_LAC1	SRS335682	SAMN01000750	ISGC	Ovis aries	9940	Meat Lacaune	SW Europe
OARI_LAC84	SRS335683	SAMN01000751	ISGC	Ovis aries	9940	Mmilk Lacaune	SW Europe
OARI_MER454	SRS335684	SAMN01000752	ISGC	Ovis aries	9940	Merino	SW Europe
OARI_MERC1	SRS335700	SAMN01000768	ISGC	Ovis aries	9940	Merino	SW Europe
OARI_NDZ1	SRS335721	SAMN01000789	ISGC	Ovis aries	9940	Norduz	SW Asia
OARI_SALA2	SRS335674	SAMN01000742	ISGC	Ovis aries	9940	Salz	.
OARI_SBF454	SRS335676	SAMN01000744	ISGC	Ovis aries	9940	Scottish Blackface	orthern Europe
OARI_SUM2	SRS335713	SAMN01000781	ISGC	Ovis aries	9940	Sumatra	Asia
OARI_VBS2	SRS335694	SAMN01000762	ISGC	Ovis aries	9940	Valais Blacknose	Central Europe
OCAN_OCAN1	SRS335678	SAMN01000746	ISGC	Ovis canadensis	37174	Ovis canadensis	.
OCAN_OCAN2	SRS335680	SAMN01000748	ISGC	Ovis canadensis	37174	Ovis canadensis	.
OCAN_OCAN3	SRS335679	SAMN01000747	ISGC	Ovis canadensis	37174	Ovis canadensis	.
ODAL_ODAL1	SRS335696	SAMN01000764	ISGC	Ovis dalli	9943	Ovis dalli	.
ODAL_ODAL2	SRS335717	SAMN01000785	ISGC	Ovis dalli	9943	Ovis dalli	.