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Population genetic structure and milk production traits in Girgentana goat breed

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Table S1. Microsatellite markers information

Locus	Primer sequence	Chromosome	Range	Multiplex-PCR
FCB48	FW: GACTCTAGAGGATCGCAAAGAACCAG RV: GAGTTAGTACAAGGATGACAAGAGGCAC	17	145-175	1
FCB20	FW: GGAAAACCCCCATATATACCTATAC RV: AAATGTGTTTAAGATTCCATACATGTG	2	85-115	
BRN	FW: CCTCCACACAGGCTTCTCTGACTT RV: CCTAACTTGCTTGAGTTATTGCCC	7	130-165	
CSRD247	FW: GGACTTGCCAGAACTCTGCAAT RV: CACTGTGGTTTGTATTAGTCAGG	14	226-246	
SRCRSP0005	FW: GGACTCTACCAACTGAGCTACAAG RV: TGAAATGAAGCTAAAGCAATGC	18	150-185	2
OLADRB	FW: CTGCCAATGCAGAGACACAAGA RV: GTCTGTCTCCTGTCTTGTCATC	20	260-300	
SRCRSP0008	FW: TGCGGTCTGGTTCTGATTTCAC RV: CCTGCATGAGAAAGTCGATGCTTAG	?	215-250	
INRA104	FW: AACATTTCAGCTGATGGTGGC RV: TTCTGTTTTGAGTGGTAAGCTG	20	135-155	
OARAE54	FW: TACTAAAGAAACATGAAGCTCCCAC RV: GGAAACATTTATTCTTATTCCTCAGTG	25	110-145	
MB099	FW: CTGGAGGTGTGTGAGCCCCATTTA RV: CTAAGAGTCGAAGGTGTGACTAGG	1	178-194	
BM1329	FW: TTGTTTAGGCAAGTCCAAAGTC RV: AACACCGCAGCTTCATCC	6	155-200	3
ETH225	FW: GATCACCTTGCCACTATTTCCT RV: ACATGACAGCCAGCTGCTACT	9 (Oar)	130-160	
MCM73	FW: CTCTTCATTCTGCAAAAGTTTGTCAC RV: GCTTGTGAGATGAACAATAAGTCATAGG	4	105-135	
FCB11	FW: GCAAGCAGGTTCTTTACACTAGCACC RV:GGCCTGAACTCACAAGTTGATATATCTATCAC	2	140-165	
TCRGC4	FW: AGAACAAATATCTGGAATGGTGATGCT RV: TGCTATAGGATGACATGAAGGCAAAT	4	260-320	4
STAT5B*	FW: TTGGCGGAAATGAGCTGGTGTTTC RV: TCCGTCCTGAAGTGATGTTTCCCT	AJ005638.1	260-320	
INRA023	FW: GAGTAGAGCTACAAGATAAACTTC RV: TAACTACAGGGTGTTAGATGAACTC	3 (Btau)	180-230	
SRCRSP0024	FW: AGCAAGAAGTGTCCACTGACAG RV: TCTAGGTCCATCTGTGTTATTGC	2	140-170	
TGLA122	FW: CCCTCCTCCAGGTAAATCAGC RV: AATCACATGGCAAATAAGTACATA	AC223929	125-155	5
MCM64	FW: TACAGTCCATGGGGTCACAAGAG RV: TCTGAATCTACTCCCTCCTCAGAGC	2	125-165	

Table S2. Wright's F_{IS} coefficient estimated for each locus in each breed

Locus	Girgentana	Maltese	Derivata di Siria
FCB48	-0.003	-0.077	-0.098
FCB20	0.006	-0.018	0.138
BRN	0.160	-0.036	-0.014
CSRD247	-0.584	0.106	0.385
SRCRSP0005	-0.013	0.095	0.045
OLADRB	0.081	0.072	0.055
SRCRSP0008	0.040	0.098	0.465
INRA104	-0.024	0.647	0.027
OARAE54	-0.027	0.084	0.090
MB099	0.103	0.486	0.262
MCM73	0.162	-0.008	0.191
FCB11	0.269	0.407	0.354
BM1329	0.018	-0.192	-0.169
INRA023	0.045	0.041	0.272
SRCRSP0024	-0.025	-0.007	-0.009
TCRGC4	0.065	0.170	-0.124
TGLA122	0.362	0.217	-0.041
MCM64	0.028	0.048	0.045
Mean	0.037±0.188	0.118±0.208	0.104±0.182