

Pedigree reconstruction and population structure using SNP markers in Gir cattle

Arielly Oliveira Garcia¹, Pamela Itajara Otto², Luiz Afonso Glatzl Junior³, Renata de Fátima Bretanha Rocha¹, Mateus Guimarães dos Santos¹, Daniele Alves de Oliveira², Marcos Vinicius Gualberto Barbosa da Silva⁴, João Cláudio do Carmo Panetto⁴, Marco Antônio Machado⁴, Rui da Silva Verneque⁴, and Simone Eliza Facioni Guimarães^{1*}

¹Department of Animal Science, Universidade Federal de Viçosa, Viçosa, MG, 36570-900, Brazil

²Department of Animal Science, Universidade Federal de Santa Maria, Santa Maria, RS, 97105-900, Brazil

³Department of Computer Science, Universidade Federal de Juiz de Fora, Juiz de Fora, MG, 36036-900, Brazil

⁴EMBRAPA - Dairy Cattle Research Center, Juiz de Fora, MG, 36038-330, Brazil

* Corresponding author: sfacioni@ufv.br

Journal of Applied Genetics

Online Resource 3 Linkage disequilibrium across autosomal chromosomes in Gir cattle.

Chr	Pairs of markers (N)	r ² mean ± sd ¹	r ² median	% r ² > 0.3
BTA1	4486591	0.0958 ± 0.1668	0.0342	8.11
BTA2	3622290	0.1084 ± 0.1739	0.0418	9.54
BTA3	3347797	0.0932 ± 0.1594	0.0340	7.57
BTA4	3148438	0.1019 ± 0.1699	0.0378	8.60
BTA5	2844561	0.1162 ± 0.1837	0.0449	10.48
BTA6	4027514	0.1059 ± 0.1715	0.0398	9.36
BTA7	3276831	0.1031 ± 0.1741	0.0370	8.90
BTA8	3664491	0.0990 ± 0.1632	0.0384	8.13
BTA9	3386160	0.1198 ± 0.1843	0.0479	10.97
BTA10	2631627	0.0964 ± 0.1658	0.0341	8.07
BTA11	2791279	0.0952 ± 0.1638	0.0344	7.79
BTA12	2388984	0.0983 ± 0.1694	0.0350	8.07
BTA13	2116548	0.1074 ± 0.1715	0.0424	9.25
BTA14	2616951	0.1016 ± 0.1635	0.0396	8.58
BTA15	2138630	0.0986 ± 0.1652	0.0363	8.39
BTA16	2625581	0.0975 ± 0.1616	0.0374	8.00
BTA17	2066723	0.0930 ± 0.1603	0.0335	7.53
BTA18	1897406	0.0993 ± 0.1785	0.0340	8.07
BTA19	1528297	0.0987 ± 0.1650	0.0364	8.29
BTA20	1947612	0.1006 ± 0.1665	0.0374	8.60
BTA21	1934475	0.1065 ± 0.1743	0.0387	9.38

BTA22	1578957	0.1001 ± 0.1662	0.0363	8.56
BTA23	1457332	0.0962 ± 0.1620	0.0358	7.90
BTA24	1821411	0.0923 ± 0.1613	0.0327	7.50
BTA25	1109031	0.0859 ± 0.1497	0.0321	6.48
BTA26	1400942	0.0861 ± 0.1492	0.0324	6.49
BTA27	1237917	0.0878 ± 0.1495	0.0334	6.68
BTA28	1204308	0.0928 ± 0.1524	0.0366	7.35
BTA29	1166940	0.1034 ± 0.1710	0.0373	9.13

¹sd = standard deviation