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CERTIFICATO DI IDENTIFICAZIONE GENETICA/ GENETIC IDENTIFICATION CERTIFICATE

NOME SOGGETTO NAME		SPECIE SPECIE	BOVINE	RAZZA BREED	CHIANINA
MICROCHIP/MATRICOLA HERDBOOK N°/ID	IT049990018261	TATUAGGIO TATTOO		DATA NASCITA DATE OF BIRTH	
ROI/LOI/LIR		SESSO GENDER	M	GEMELLO MULTIPLE BIRTH	
PADRE SIRE	IT050990033803				
MADRE DAM	IT049990014244				
DIAGNOSI DIAGNOSIS	SIRE and DAM qualify				

CLIENTE/CUSTOMER	**ANABIC, SS 317 – km 52,450, 06078 San Martino in colle (PG)**				
RAPPORTO DI PROVA n. TEST REPORT n	21CA00972	DATA EMISSIONE DATE OF ISSUE	19/05/2021		
DATA RICEVIMENTO CAMPIONI DELIVERY DATE	19/02/2020	DATA INIZIO PROVA TEST START DATE	20/02/2020	DATA FINE PROVA TEST END DATE	06/03/2020
CODICE INTERNO LGS LGS SAMPLE ID	20BO32713	MATRICE DNA FROM	EARTAG		

Metodo di prova: *test method:*	Analisi molecolare tramite Illumina® beadchip/Molecular analysis with Illumina® beadchip
Incertezza di misura: *Uncertainty of measurement:*	
Informazioni: *Information:*	*La diagnosi del presente rapporto di prova è stata formulata tramite analisi del genotipo SNP attenendosi alle linee guida dell'International Society for Animal Genetics (ISAG) approvate alla conferenza di Cairns (Luglio 2012) e dell'International Committee for Animal Recording (ICAR).* *The diagnosis of the present test report has been made through SNP profile analysis following the guidelines of the International Society for Animal Genetics (ISAG) approved at Cairns conference (July, 2012) and by the International Committee for Animal Recording (ICAR).*

Il prelievo ed il campionamento sono a carico del cliente / the customer is responsable for sampling

Il presente rapporto riguarda soltanto i campioni sottoposti a prova e non può essere riprodotto in forma parziale, salvo approvazione scritta di LGS
This report is relative to the analysed sample. Reproduction of partial copy of the document is not allowed without written authorization from LGS

IL RESPONSABILE DI LABORATORIO
THE LAB MANAGER

Dr. Raffaele Mazza

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GENOTIPO/GENOTYPE

Indice/Index	Nome Marker/Marker Name	AB Allele	TOP Allele
1	ARS-USMARC-Parent-AY761135-rs29003723	BB	TT
2	ARS-USMARC-Parent-AY776154-no-rs	AA	AA
3	ARS-USMARC-Parent-AY842472-rs29001941	AA	CC
4	ARS-USMARC-Parent-AY842473-rs29001956	AB	AG
5	ARS-USMARC-Parent-AY842474-rs29003226	BB	GG
6	ARS-USMARC-Parent-AY842475-rs29002127	AB	AG
7	ARS-USMARC-Parent-AY844963-rs17871338	BB	GG
8	ARS-USMARC-Parent-AY849381-rs29003287	AB	AG
9	ARS-USMARC-Parent-AY850194-no-rs	BB	GG
10	ARS-USMARC-Parent-AY851162-no-rs	BB	GG
11	ARS-USMARC-Parent-AY851163-rs17871661	AB	AG
12	ARS-USMARC-Parent-AY853302-no-rs	AA	AA
13	ARS-USMARC-Parent-AY853303-no-rs	AA	AA
14	ARS-USMARC-Parent-AY856094-rs17871190	BB	GG
15	ARS-USMARC-Parent-AY858890-rs29002256	AB	CG
16	ARS-USMARC-Parent-AY860426-no-rs	BB	CC
17	ARS-USMARC-Parent-AY863214-rs17871744	AB	AG
18	ARS-USMARC-Parent-AY914316-rs17871403	AB	AC
19	ARS-USMARC-Parent-AY916666-no-rs	AB	AG
20	ARS-USMARC-Parent-AY919868-rs29002211	AA	AA
21	ARS-USMARC-Parent-AY929334-no-rs	AB	AG
22	ARS-USMARC-Parent-AY937242-rs17872223	AA	AA
23	ARS-USMARC-Parent-AY939849-rs17870274	AA	AA
24	ARS-USMARC-Parent-AY941204-rs17872131	AB	AG
25	ARS-USMARC-Parent-AY943841-rs17871566	BB	GG
26	ARS-USMARC-Parent-DQ381152-rs29002408	AB	AT
27	ARS-USMARC-Parent-DQ381153-rs29012842	BB	CC
28	ARS-USMARC-Parent-DQ404149-no-rs	AB	AG
29	ARS-USMARC-Parent-DQ404150-rs29012530	AB	AC
30	ARS-USMARC-Parent-DQ404151-rs29019282	AA	AA
31	ARS-USMARC-Parent-DQ404152-rs29022245	AB	AG
32	ARS-USMARC-Parent-DQ404153-no-rs	AB	AG
33	ARS-USMARC-Parent-DQ435443-rs29010802	AB	AC
34	ARS-USMARC-Parent-DQ451555-rs29010795	BB	GG
35	ARS-USMARC-Parent-DQ468384-rs29003967	AB	AC
36	ARS-USMARC-Parent-DQ470475-no-rs	AB	AT
37	ARS-USMARC-Parent-DQ489377-rs29026932	AA	AA
38	ARS-USMARC-Parent-DQ500958-no-rs	BB	GG
39	ARS-USMARC-Parent-DQ647186-rs29014143	AB	AG
40	ARS-USMARC-Parent-DQ647187-rs29010510	AB	AG
41	ARS-USMARC-Parent-DQ647189-rs29012226	AA	AA
42	ARS-USMARC-Parent-DQ647190-rs29013632	AB	AG
43	ARS-USMARC-Parent-DQ650635-rs29012174	BB	GG
44	ARS-USMARC-Parent-DQ650636-rs29024525	AB	AG

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45	ARS-USMARC-Parent-DQ674265-rs29011266	AA	AA
46	ARS-USMARC-Parent-DQ786757-rs29019900	BB	GG
47	ARS-USMARC-Parent-DQ786758-rs29024430	AB	AC
48	ARS-USMARC-Parent-DQ786759-rs29026696	AB	AG
49	ARS-USMARC-Parent-DQ786761-rs29012840	AB	AG
50	ARS-USMARC-Parent-DQ786762-rs29010772	AA	AA
51	ARS-USMARC-Parent-DQ786763-rs29020472	BB	TT
52	ARS-USMARC-Parent-DQ786764-no-rs	AA	AA
53	ARS-USMARC-Parent-DQ786766-rs29012070	AA	AA
54	ARS-USMARC-Parent-DQ789028-rs29017713	AB	AG
55	ARS-USMARC-Parent-DQ837643-rs29018818	BB	GG
56	ARS-USMARC-Parent-DQ837644-rs29010468	BB	CC
57	ARS-USMARC-Parent-DQ837645-rs29015870	BB	GG
58	ARS-USMARC-Parent-DQ839235-rs29012691	BB	CC
59	ARS-USMARC-Parent-DQ846688-rs29023691	AB	AG
60	ARS-USMARC-Parent-DQ846690-no-rs	AA	AA
61	ARS-USMARC-Parent-DQ846691-rs29019814	AA	AA
62	ARS-USMARC-Parent-DQ846692-rs29010281	AA	AA
63	ARS-USMARC-Parent-DQ846693-rs29017621	AB	AG
64	ARS-USMARC-Parent-DQ866817-no-rs	BB	GG
65	ARS-USMARC-Parent-DQ866818-rs29011701	AA	AA
66	ARS-USMARC-Parent-DQ888309-rs29013741	AB	AC
67	ARS-USMARC-Parent-DQ888310-rs29012422	BB	CC
68	ARS-USMARC-Parent-DQ888311-rs29017313	BB	CC
69	ARS-USMARC-Parent-DQ888313-no-rs	AB	AG
70	ARS-USMARC-Parent-DQ916057-rs29009979	AB	AT
71	ARS-USMARC-Parent-DQ916058-rs29016146	AB	AG
72	ARS-USMARC-Parent-DQ916059-rs29009907	AB	AG
73	ARS-USMARC-Parent-DQ984825-rs29012457	BB	GG
74	ARS-USMARC-Parent-DQ984826-rs29027559	AB	AT
75	ARS-USMARC-Parent-DQ984827-rs29012019	BB	GG
76	ARS-USMARC-Parent-DQ990832-rs29015065	AB	AG
77	ARS-USMARC-Parent-DQ990833-rs29010147	BB	GG
78	ARS-USMARC-Parent-DQ990834-rs29013727	BB	GG
79	ARS-USMARC-Parent-DQ995976-no-rs	AB	AG
80	ARS-USMARC-Parent-DQ995977-rs29020834	AB	AG
81	ARS-USMARC-Parent-EF026084-rs29025380	BB	GG
82	ARS-USMARC-Parent-EF026086-rs29013660	BB	GG
83	ARS-USMARC-Parent-EF026087-rs29011643	AB	AG
84	ARS-USMARC-Parent-EF028073-rs29014953	AA	AA
85	ARS-USMARC-Parent-EF034080-rs29024749	BB	GG
86	ARS-USMARC-Parent-EF034081-rs29009668	BB	TT
87	ARS-USMARC-Parent-EF034082-rs29013532	AB	AG
88	ARS-USMARC-Parent-EF034083-rs29018286	AB	AC
89	ARS-USMARC-Parent-EF034084-rs29016185	BB	GG
90	ARS-USMARC-Parent-EF034085-rs29025677	BB	GG
91	ARS-USMARC-Parent-EF034086-no-rs	AB	AG

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92	ARS-USMARC-Parent-EF034087-no-rs	BB	GG
93	ARS-USMARC-Parent-EF042090-no-rs	AB	AG
94	ARS-USMARC-Parent-EF042091-rs29014974	BB	GG
95	ARS-USMARC-Parent-EF093509-rs29015170	BB	TT
96	ARS-USMARC-Parent-EF093511-rs29012316	AA	AA
97	ARS-USMARC-Parent-EF093512-rs29013546	AB	CG
98	ARS-USMARC-Parent-EF141102-rs29015783	BB	GG
99	ARS-USMARC-Parent-EF150946-rs29023666	AA	AA
100	ARS-USMARC-Parent-EF164803-rs29011141	BB	GG
101	ARS-BFGL-BAC-19454	AA	AA
102	ARS-BFGL-BAC-27364	AA	AA
103	ARS-BFGL-BAC-35552	AA	AA
104	ARS-BFGL-NGS-10035	AB	AG
105	ARS-BFGL-NGS-101456	AB	AG
106	ARS-BFGL-NGS-102169	BB	CC
107	ARS-BFGL-NGS-106015	AA	AA
108	ARS-BFGL-NGS-111053	AA	AA
109	ARS-BFGL-NGS-111076	AB	AG
110	ARS-BFGL-NGS-111114	AB	AC
111	ARS-BFGL-NGS-112094	BB	GG
112	ARS-BFGL-NGS-112325	BB	GG
113	ARS-BFGL-NGS-11383	AA	AA
114	ARS-BFGL-NGS-114006	BB	GG
115	ARS-BFGL-NGS-115514	BB	GG
116	ARS-BFGL-NGS-117319	AA	AA
117	ARS-BFGL-NGS-117322	AA	AA
118	ARS-BFGL-NGS-118319	AB	AC
119	ARS-BFGL-NGS-118340	AA	AA
120	ARS-BFGL-NGS-119662	AB	AG
121	ARS-BFGL-NGS-14740	BB	GG
122	ARS-BFGL-NGS-15506	BB	GG
123	ARS-BFGL-NGS-15731	AA	AA
124	ARS-BFGL-NGS-24419	AB	AG
125	ARS-BFGL-NGS-26517	AA	AA
126	ARS-BFGL-NGS-27577	BB	GG
127	ARS-BFGL-NGS-31640	AB	AG
128	ARS-BFGL-NGS-31807	AA	AA
129	ARS-BFGL-NGS-36513	AA	AA
130	ARS-BFGL-NGS-38423	BB	GG
131	ARS-BFGL-NGS-38620	AB	AG
132	ARS-BFGL-NGS-39978	AB	AG
133	ARS-BFGL-NGS-42283	AA	AA
134	ARS-BFGL-NGS-42505	AB	AG
135	ARS-BFGL-NGS-55943	AA	AA
136	ARS-BFGL-NGS-57711	AA	AA
137	ARS-BFGL-NGS-58613	AB	AG
138	ARS-BFGL-NGS-67146	AA	AA

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139	ARS-BFGL-NGS-70946	BB	CC
140	ARS-BFGL-NGS-72471	BB	CC
141	ARS-BFGL-NGS-76191	AB	AG
142	ARS-BFGL-NGS-76330	AA	AA
143	ARS-BFGL-NGS-86662	AA	AA
144	ARS-BFGL-NGS-93119	AA	AA
145	ARS-BFGL-NGS-96125	AB	AG
146	ARS-BFGL-NGS-99210	AB	AG
147	ARS-USMARC-569	AB	AG
148	ARS-USMARC-Parent-AY841151-rs29003466	AA	AA
149	ARS-USMARC-Parent-DQ786765-rs29009858	BB	CC
150	ARS-USMARC-Parent-EF026085-rs29021607	AA	AA
151	ARS-USMARC-Parent-EF089234-rs29020870	AA	AA
153	BTA-11701-rs29017459	BB	GG
154	BTA-30857-no-rs	AB	AG
155	BTA-37062-no-rs	AA	AA
156	BTA-73768-no-rs	AB	AG
157	BTA-92021-no-rs	AA	AA
158	BTB-00188171	AB	AG
159	BTB-00394801	AB	AC
160	BTB-00420215	AA	AA
161	BTB-00818821	BB	GG
162	BTB-01057979	BB	GG
163	BTB-01285245	BB	GG
164	BTB-01371672	AA	AA
165	BTB-01416427	BB	GG
166	BTB-01478115	AA	AA
167	BTB-01902778	AB	AG
168	BTB-01980499	BB	GG
169	Hapmap24215-BTA-163266	AA	AA
170	Hapmap31098-BTA-136127	AB	AG
171	Hapmap34424-BES10_Contig566_926	AB	AG
172	Hapmap35535-SCAFFOLD86180_8791	AB	AG
173	Hapmap36588-SCAFFOLD90561_9460	BB	GG
174	Hapmap39425-BTA-70290	AB	AC
175	Hapmap39461-BTA-109898	AA	AA
176	Hapmap40148-BTA-92999	AB	AC
177	Hapmap40729-BTA-40319	BB	GG
178	Hapmap41591-BTA-59790	AB	AG
179	Hapmap42648-BTA-71195	AB	AG
180	Hapmap43057-BTA-80741	AB	AG
181	Hapmap43142-BTA-107561	AB	AG
182	Hapmap43792-BTA-122725	AB	AG
183	Hapmap43953-BTA-83292	AA	AA
184	Hapmap46550-BTA-103548	AB	AT
185	Hapmap46653-BTA-47447	BB	TT
186	Hapmap47281-BTA-40051	AA	AA

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187	Hapmap49452-BTA-112834	BB	GG
188	Hapmap50598-BTA-122724	AB	AG
189	Hapmap51227-BTA-41809	AB	AG
190	Hapmap51527-BTA-97415	AB	AG
191	Hapmap51908-BTA-63031	AB	AG
192	Hapmap52240-rs29013844	AB	AC
193	Hapmap54020-rs29023153	AA	AA
194	Hapmap54313-rs29012632	AA	AA
195	Hapmap54547-rs29012198	AA	AA
196	Hapmap55441-rs29010990	AB	AG
197	Hapmap59876-rs29018046	BB	GG
198	Hapmap60017-rs29023471	AA	AA
199	UA-IFASA-5034	AB	AG
200	UA-IFASA-6532	AB	AG