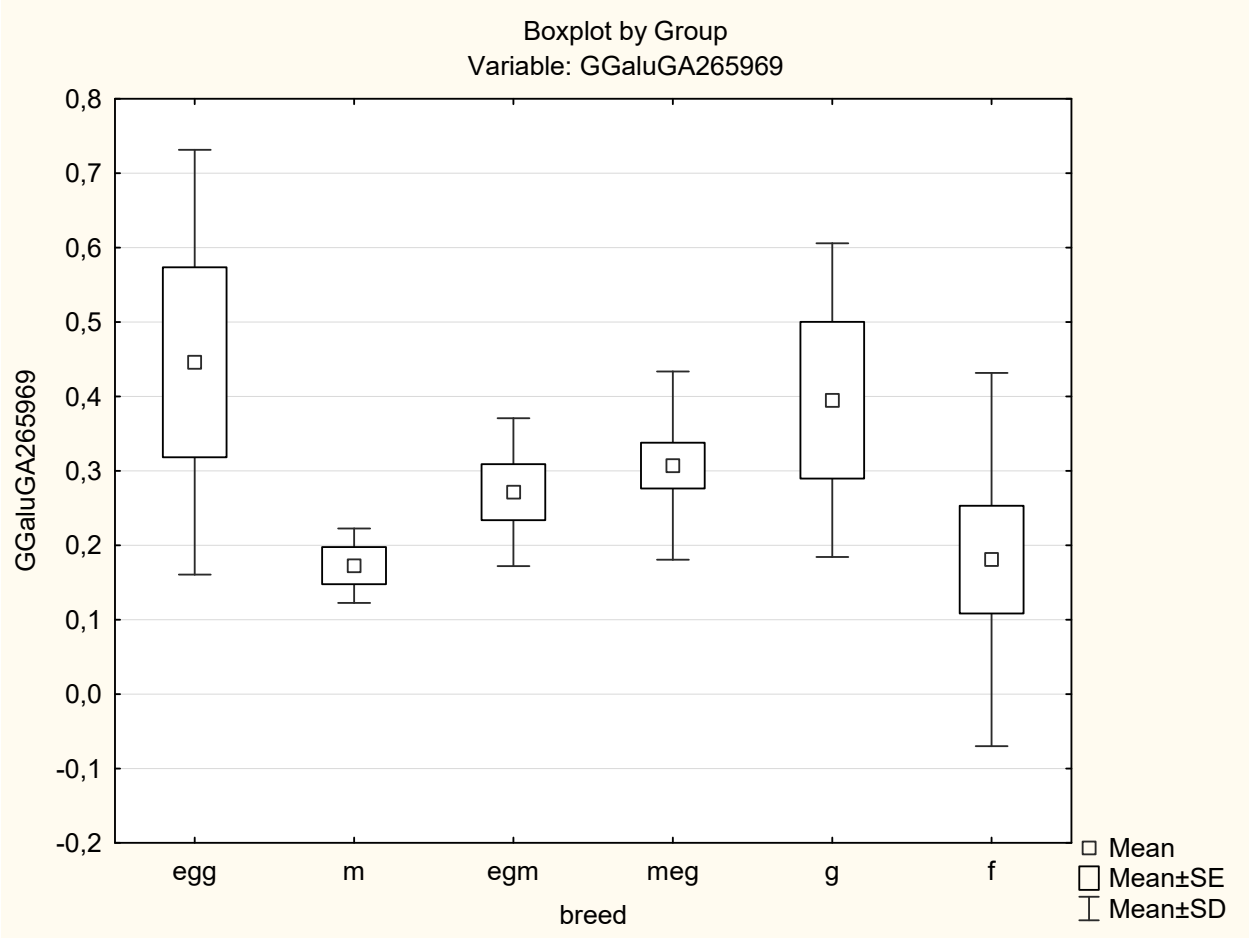
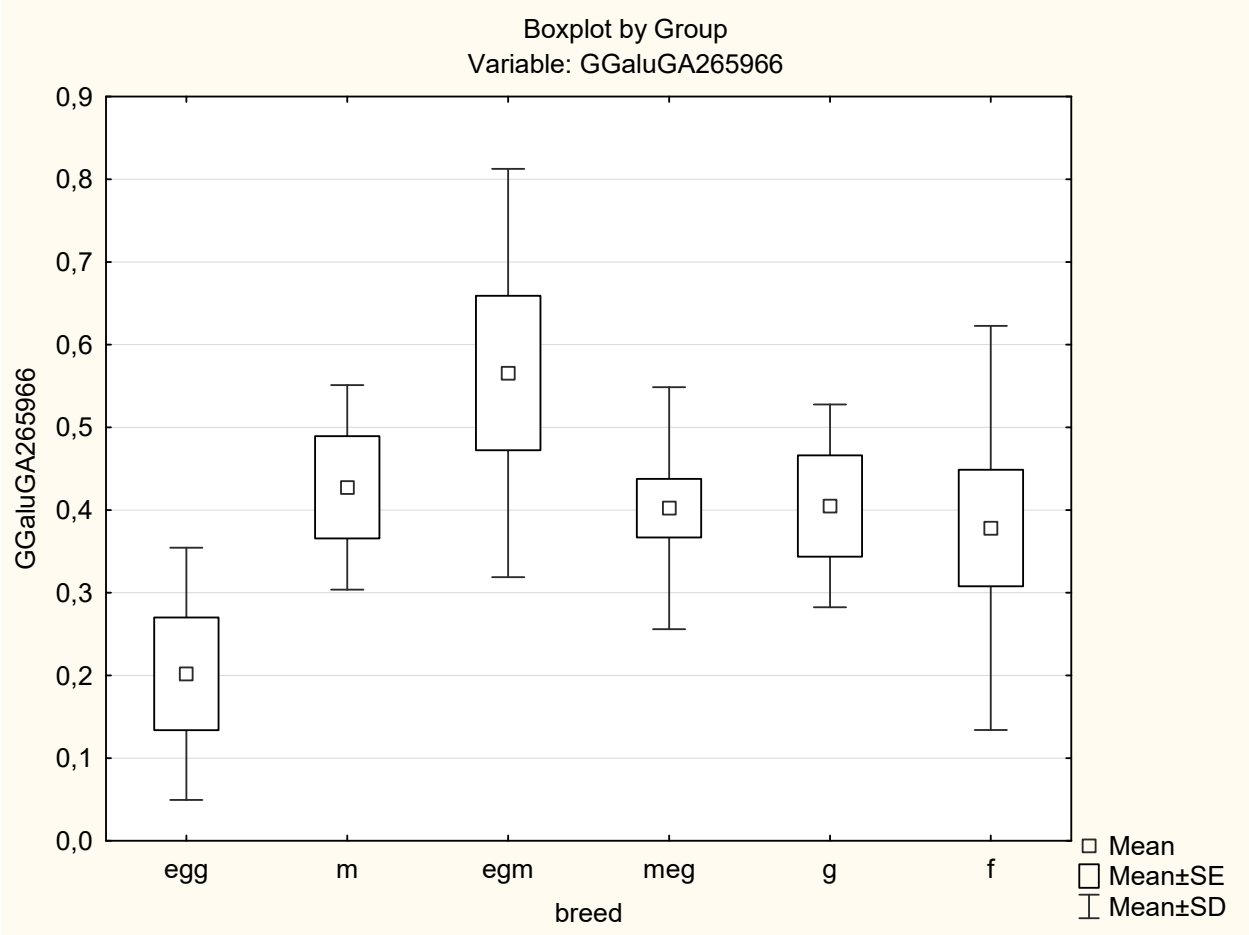


Supporting Info S3 (a–e): Boxplots and significance of differences in allele frequencies for the studied five SNPs at the locus *NCAPG-LCORL* as assessed for chicken breed groups according to TCM: egg, egg-type; m, meat-type; egm, egg-meat; meg, meat-egg; b, game; and f, fancy.

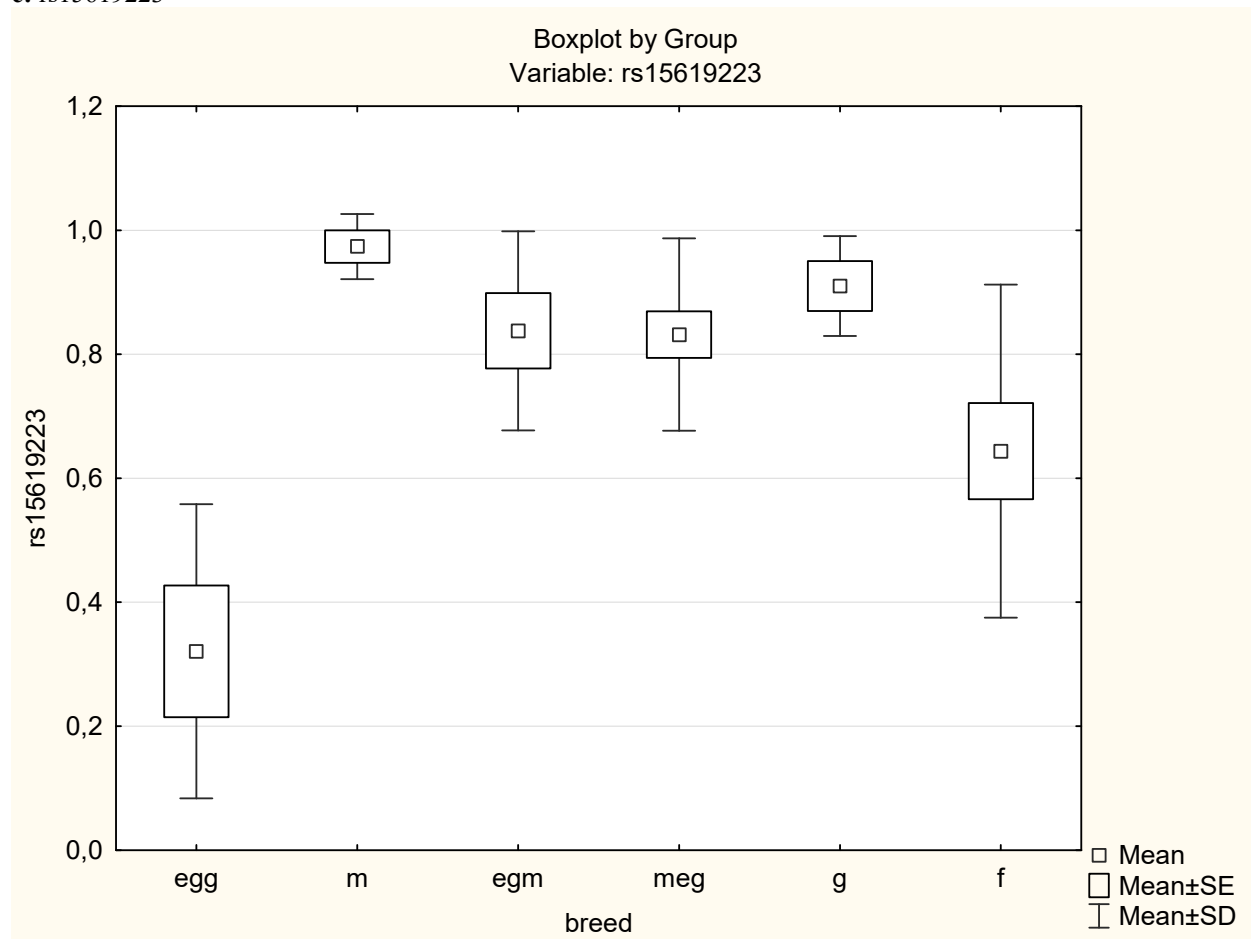
a: GGaluga265969



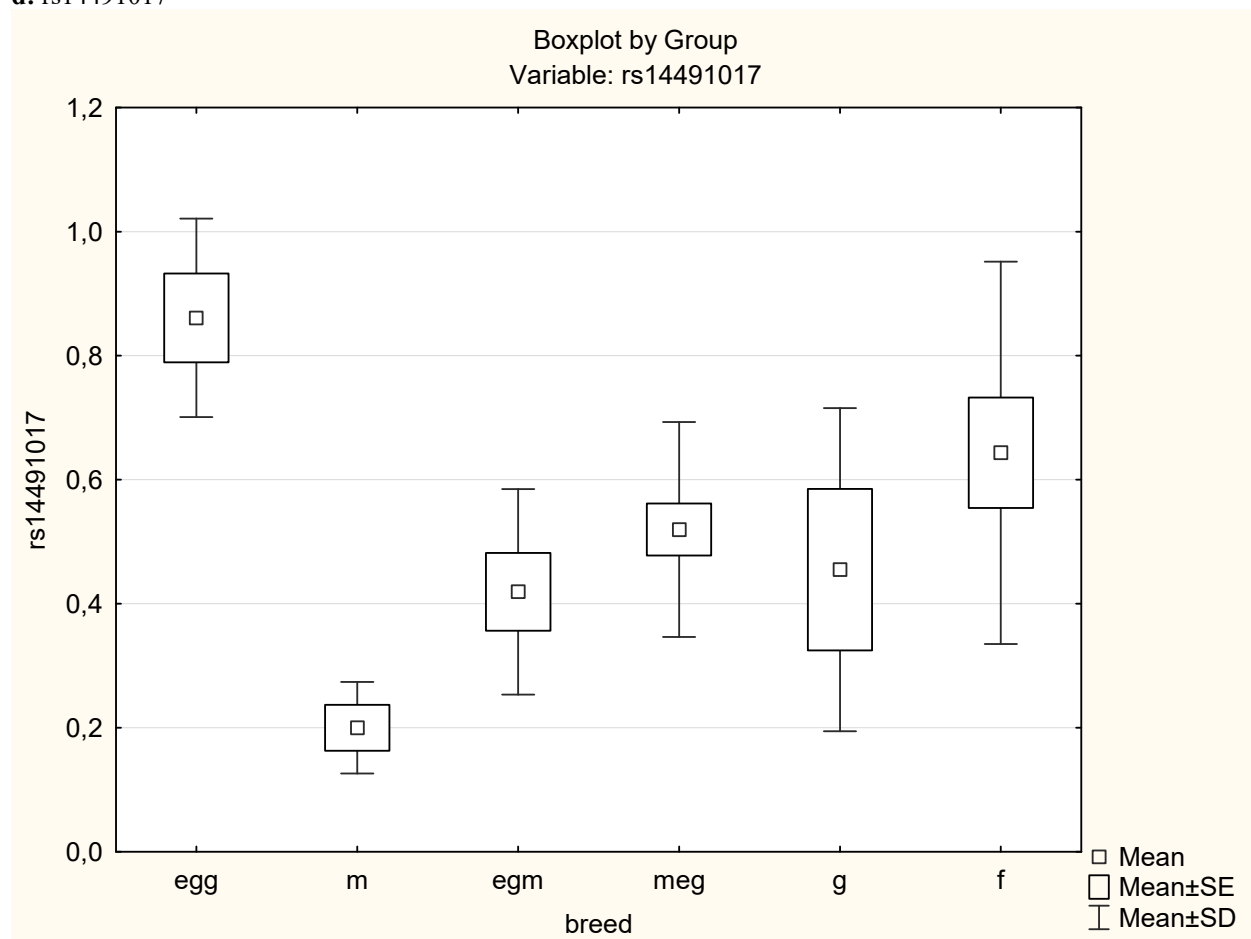
b: GGaluga265966



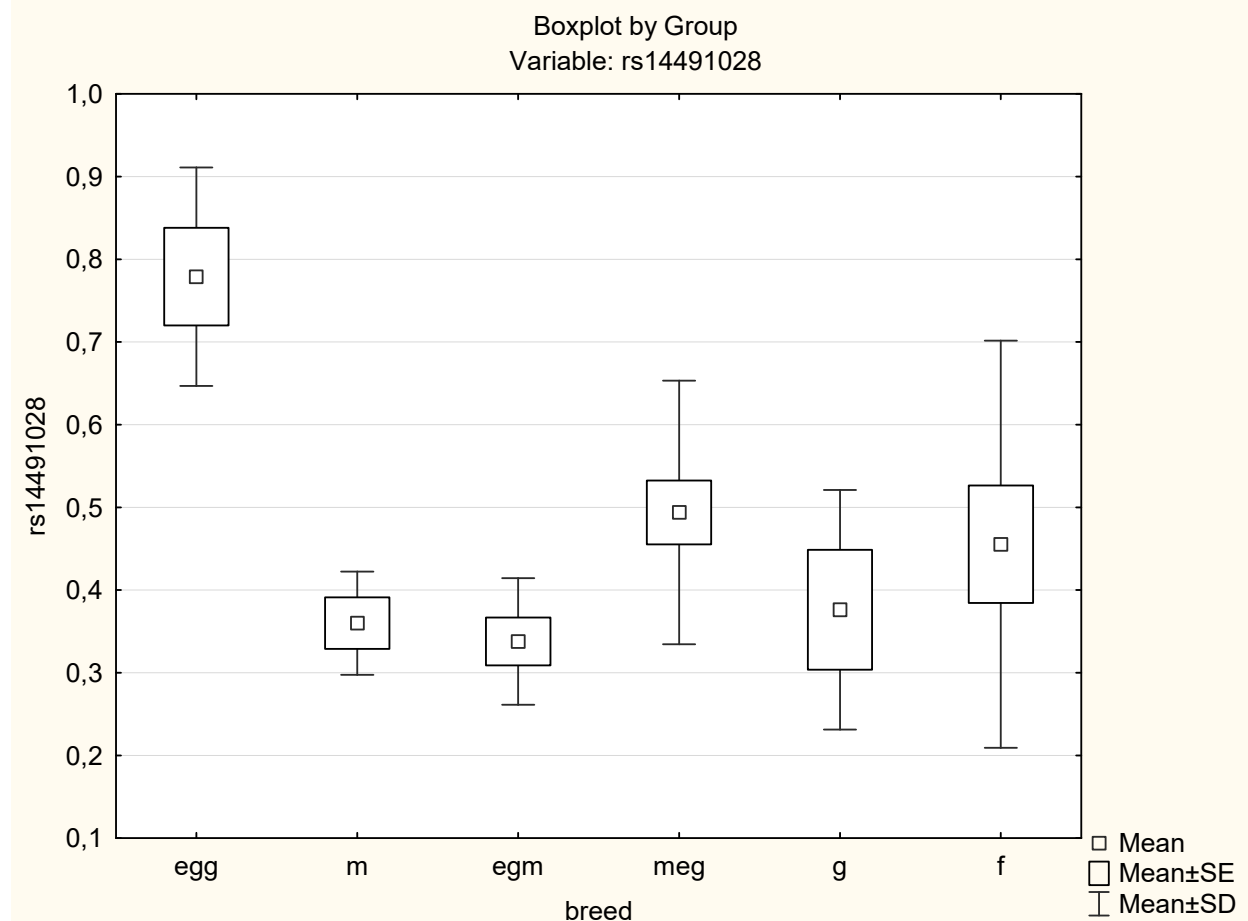
c: rs15619223



d: rs14491017



e: rs14491028



Groups compared at GGalGA265969	meat-type	dual purpose	egg-meat	meat-egg	game	fancy	p-value
egg-type	0.014	0.312	0.371	0.346	0.902	0.029	0.0247
meat-type		0.048	0.087	0.059	0.110	0.327	
dual purpose:					0.411	0.008	
egg-meat				0.633	0.449	0.074	
meat-egg					0.446	0.010	
game						0.058	

Groups compared at GGalGA265966	meat-type	dual purpose	egg-meat	meat-egg	game	fancy	p-value
egg-type	0.049	0.0242	0.018	0.054	0.085	0.224	0.1325
meat-type		0.843	0.256	0.787	1.00	0.430	
dual purpose:					0.693	0.275	
egg-meat				0.098	0.130	0.139	
meat-egg					0.857	0.505	
game						0.627	

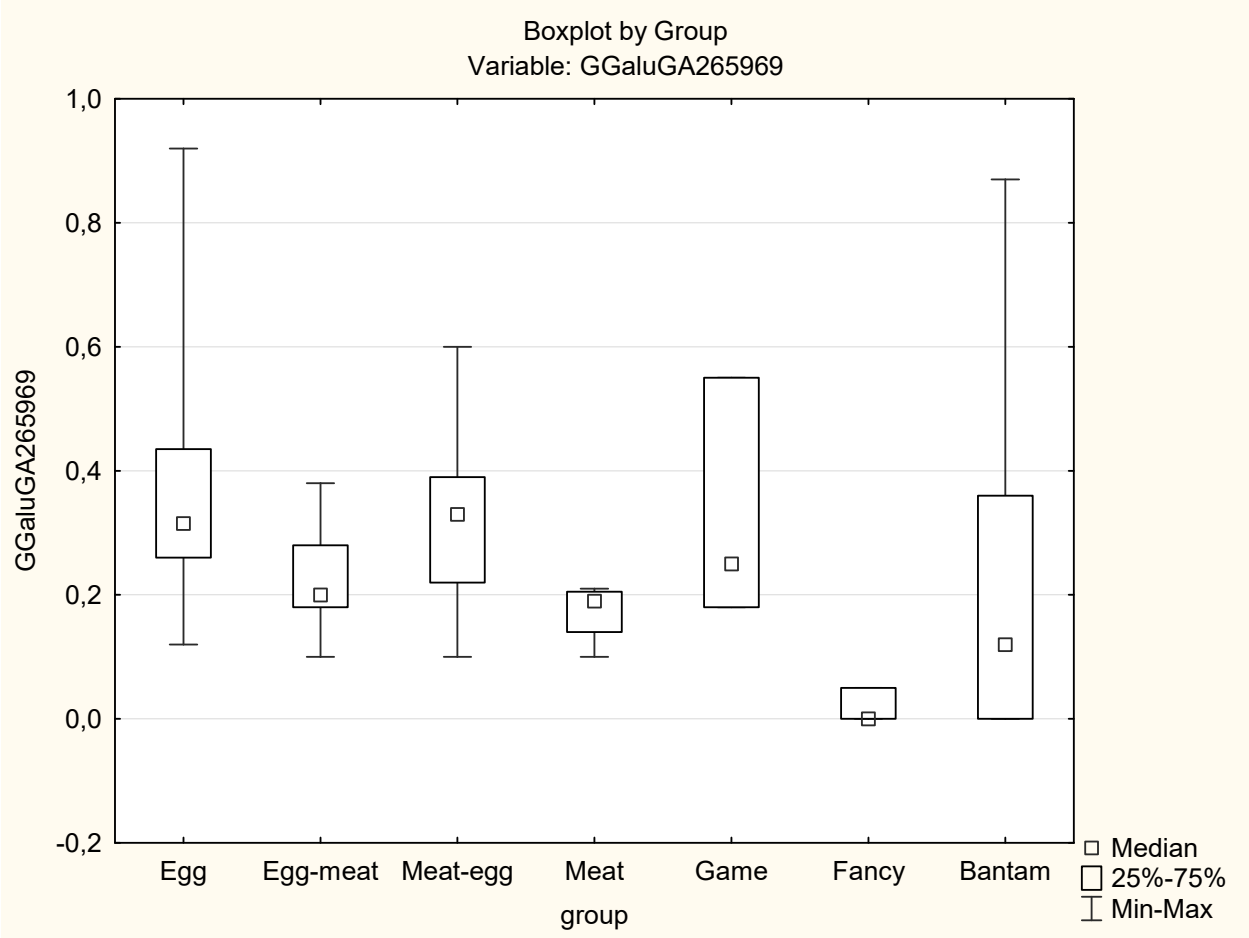
Groups compared at rs15619223	meat-type	dual purpose	egg-meat	meat-egg	game	fancy	p-value
egg-type	0.012	0.001	0.007	0.002	0.014	0.026	0.0011
meat-type		0.029	0.066	0.034	0.139	0.012	
dual purpose:					0.392	0.027	
egg-meat				0.898	0.570	0.098	
meat-egg					0.370	0.041	
game						0.052	

Groups compared at rs14491017	meat-type	dual purpose	egg-meat	meat-egg	game	fancy	p-value
egg-type	0.013	0.002	0.007	0.003	0.026	0.090	0.0028
meat-type		0.003	0.014	0.005	0.191	0.211	
dual purpose:					0.693	0.126	
egg-meat				0.119	0.850	0.138	
meat-egg					0.635	0.214	
game						0.362	

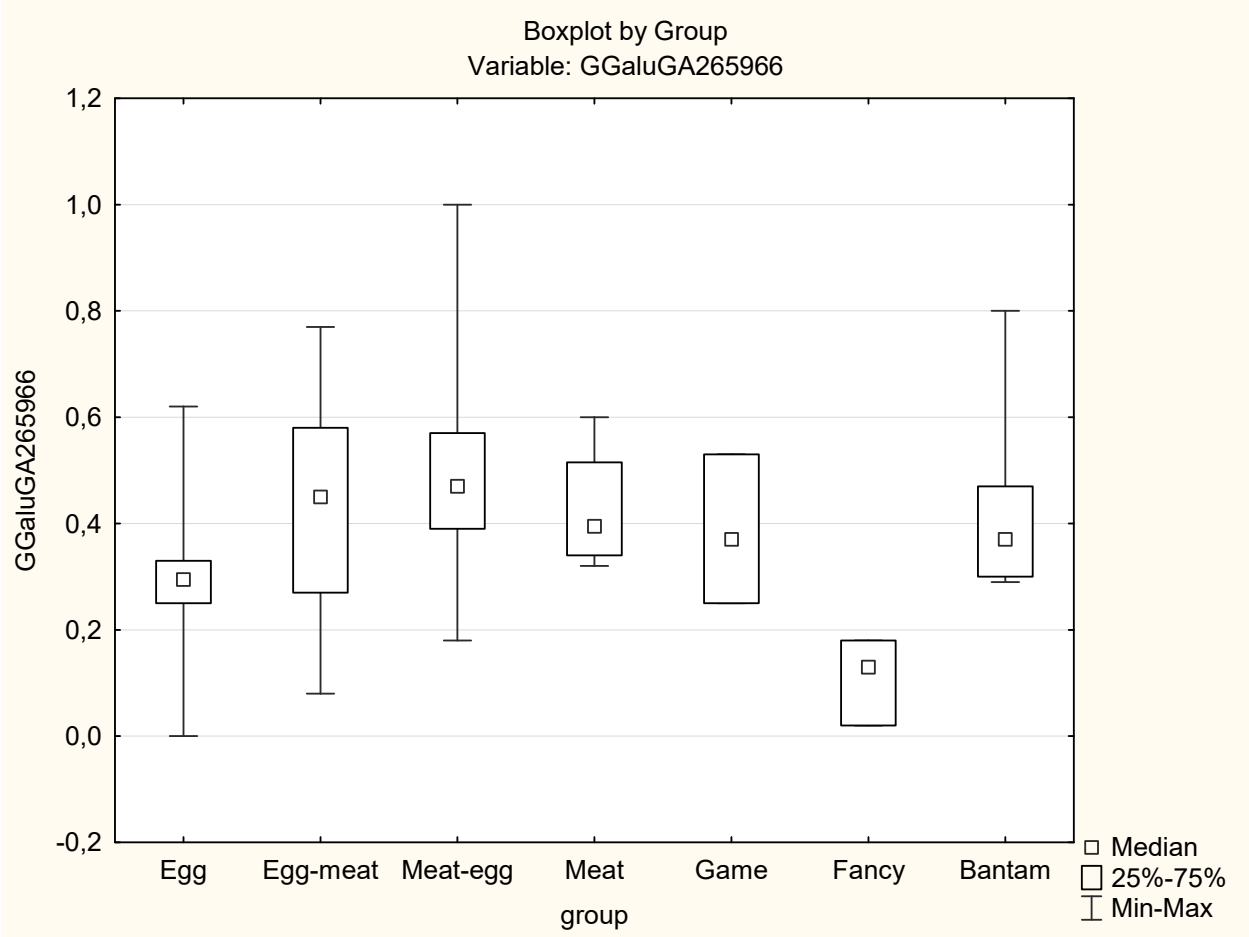
Groups compared at rs14491028	meat-type	dual purpose	egg-meat	meat-egg	game	fancy	p-value
egg-type	0.014	0.001	0.004	0.002	0.014	0.023	0.0047
meat-type		0.263	0.570	0.072	0.663	0.301	
dual purpose:					0.374	0.986	
egg-meat				0.017	0.570	0.175	
meat-egg					0.138	0.464	
game						0.503	

Supporting Info S3 (f-j): Boxplots and significance of differences in allele frequencies for the studied five SNPs at the locus *NCAPG-LCORL* as assessed for chicken breed groups according to clustering by phenotypic traits (PCM): egg, egg-meat, meat-egg, meat, game, fancy, and Bantam.

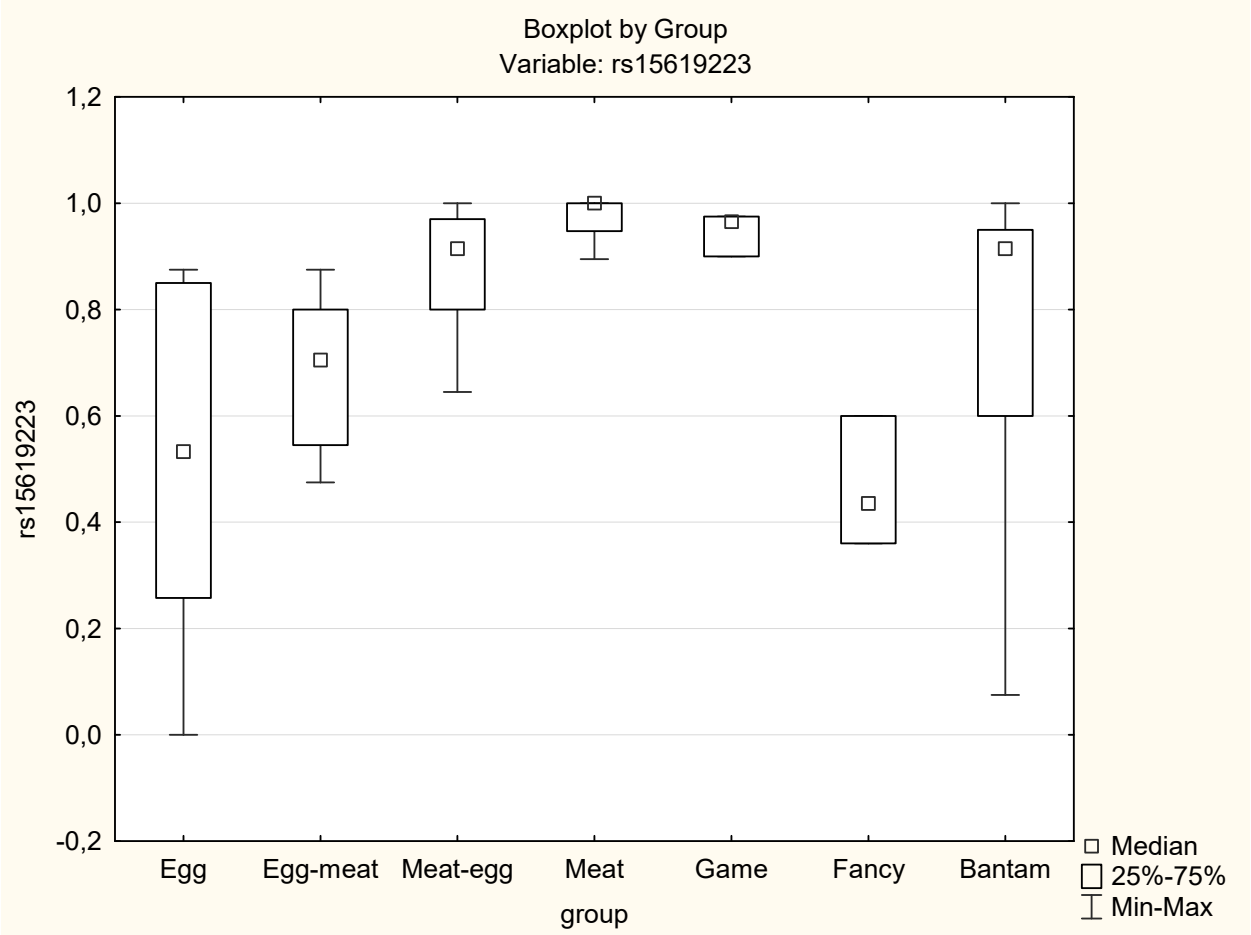
f: GGaluga265969



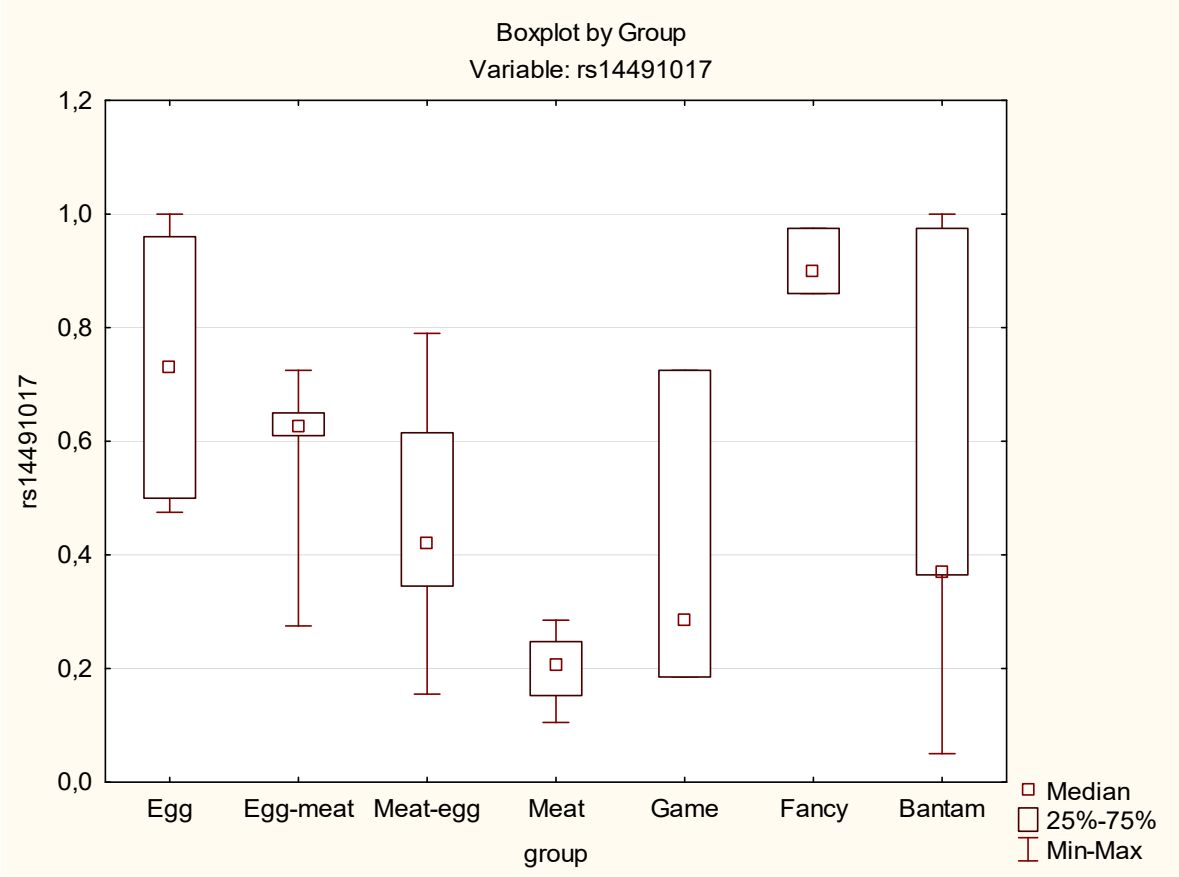
g: GGaluga265966



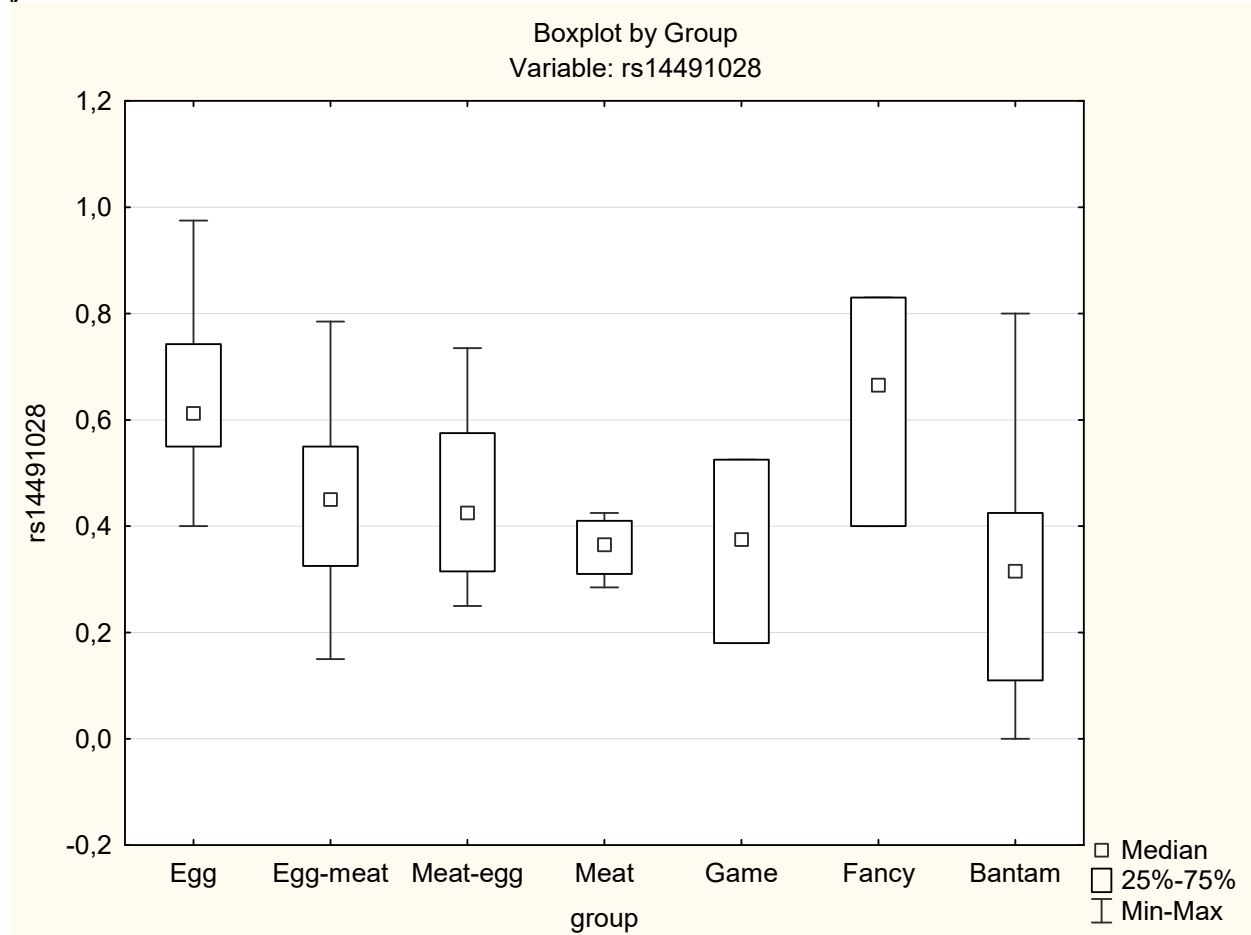
h: rs15619223



i: rs14491017



j: rs14491028



Groups compared at GGaluga265969	Egg-meat	Meat-egg	Meat	Game	Fancy	Bantam	p-value
Egg	0.1017	0.8841	0.0272	0.6090	0.0141	0.2709	0.029
Egg-meat		0.1056	0.3505	0.4580	0.0122	0.5476	
Meat-egg			0.0486	0.9156	0.0069	0.2723	
Meat				0.2118	0.0323	0.8057	
Game					0.0463	0.4534	
Fancy						0.2662	

Groups compared at GGaluga265966	Egg-meat	Meat-egg	Meat	Game	Fancy	Bantam	p-value
Egg	0.3108	0.0332	0.1048	0.4088	0.0650	0.1421	0.066
Egg-meat		0.6465	0.9384	0.7815	0.0335	0.8415	
Meat-egg			0.5597	0.3674	0.0080	0.5040	
Meat				0.7237	0.0339	0.8065	
Game					0.0495	0.7642	
Fancy						0.0253	

Groups compared at rs15619223	Egg-meat	Meat-egg	Meat	Game	Fancy	Bantam	p-value
Egg	0.4688	0.0043	0.0061	0.0141	0.8379	0.1427	0.0004
Egg-meat		0.0017	0.0052	0.0124	0.0785	0.2566	
Meat-egg			0.0697	0.3959	0.0068	0.5292	
Meat				0.2710	0.0277	0.1594	
Game					0.0495	0.4561	
Fancy						0.2303	

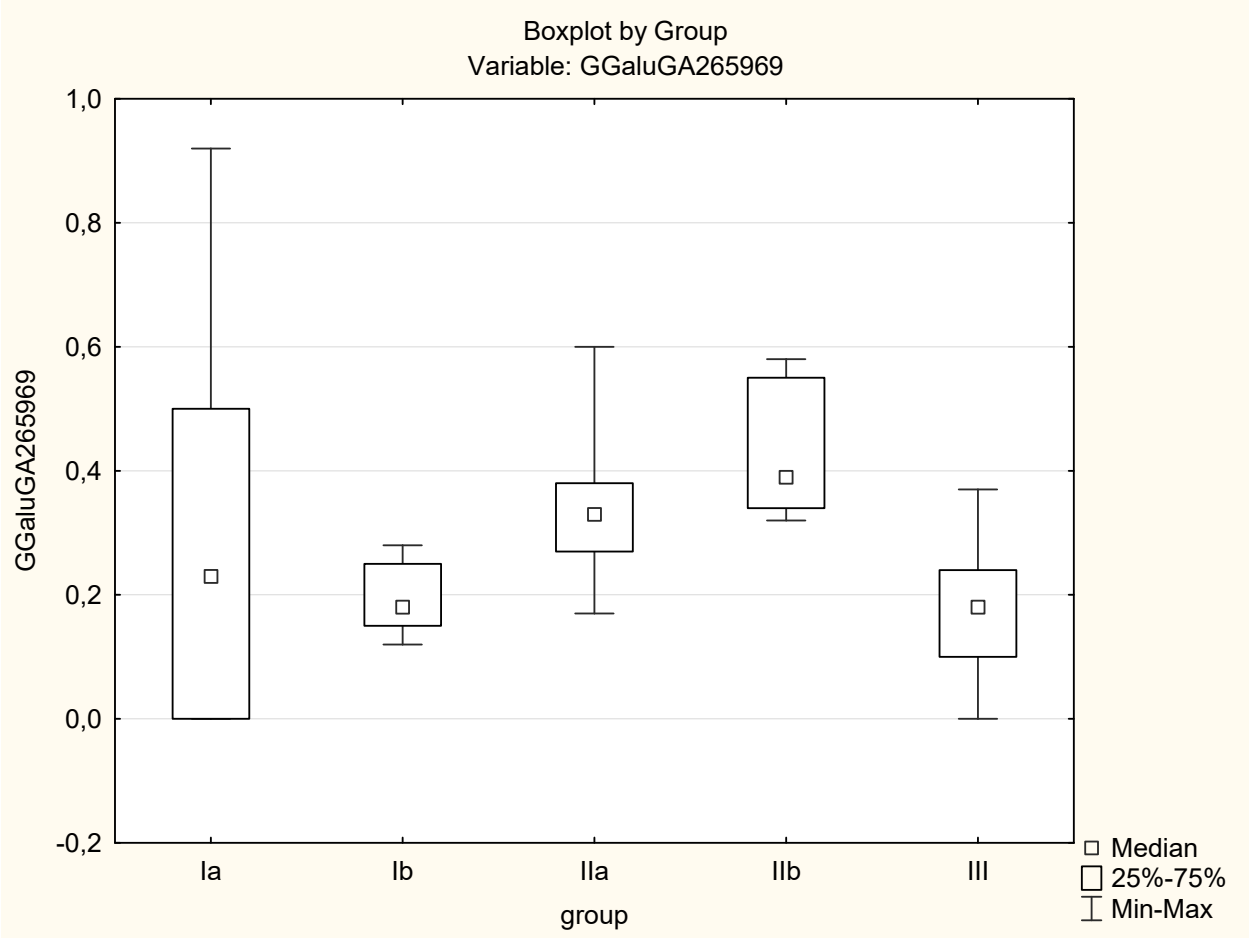
Groups compared at rs14491017	Egg-meat	Meat-egg	Meat	Game	Fancy	Bantam	p-value
Egg	0.1622	0.0103	0.0064	0.0806	0.4121	0.3022	0.003
Egg-meat		0.1454	0.0087	0.4588	0.0126	0.9468	
Meat-egg			0.0072	0.4914	0.0070	0.9064	
Meat				0.3725	0.0339	0.1416	
Game					0.0495	0.4561	

Fancy						0.5486	
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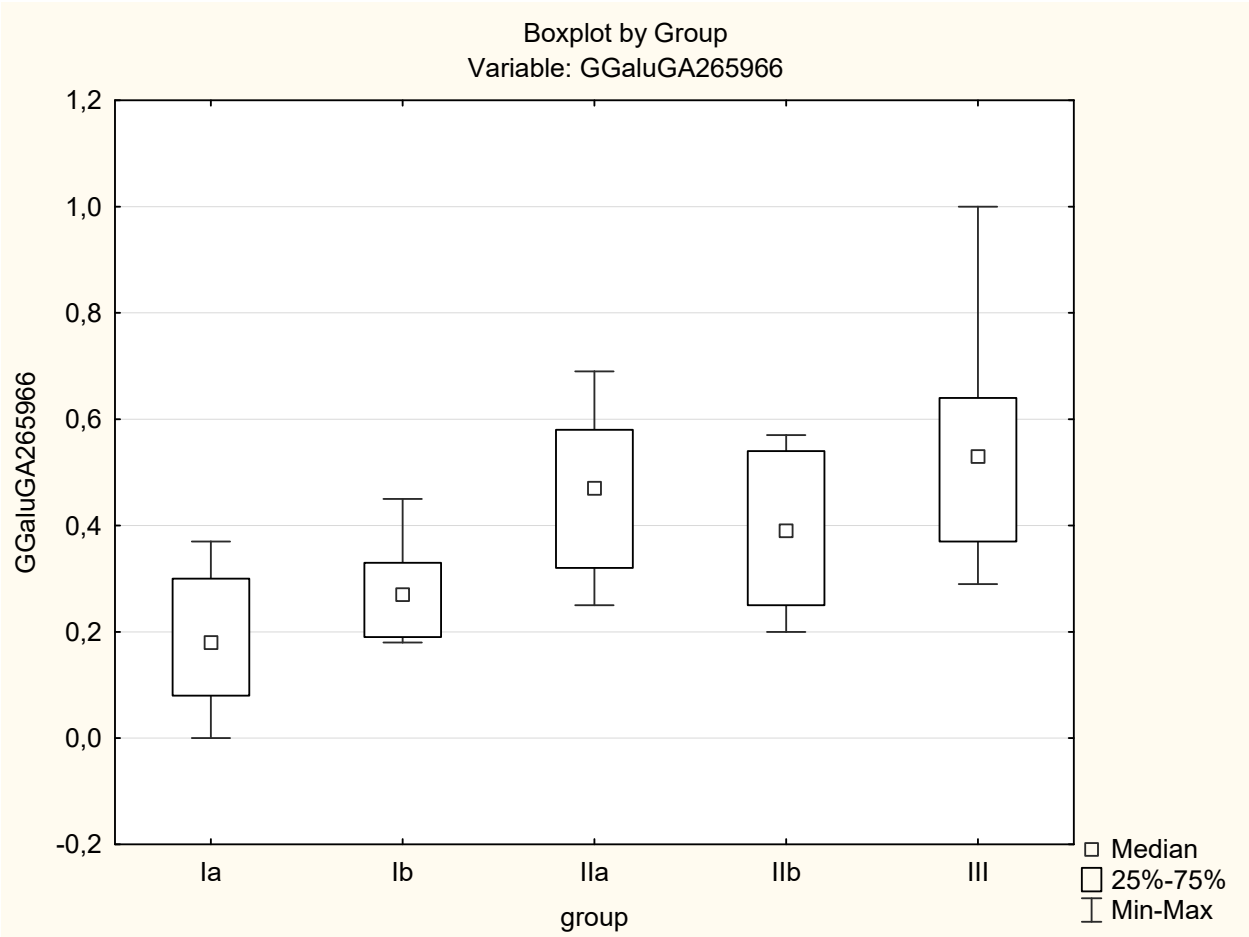
Groups compared at rs14491028	Egg-meat	Meat-egg	Meat	Game	Fancy	Bantam	p-value
Egg	0.0483	0.0228	0.0107	0.0313	0.8372	0.0567	0.056
Egg-meat		0.9141	0.2170	0.4588	0.2294	0.2571	
Meat-egg			0.3467	0.3404	0.1529	0.3270	
Meat				1.0000	0.0771	0.7122	
Game					0.1266	0.6547	
Fancy						0.1797	

Supporting Info S3 (k-o): Boxplots and significance of differences in allele frequencies for the studied five SNPs at the locus *NCAPG-LCORL* as assessed for chicken breed groups according to clustering by SNP genotypes (GCM1): ETB/Ia, ETB/Ib, DPB/IIa, DPB/IIb, and MTB/III.

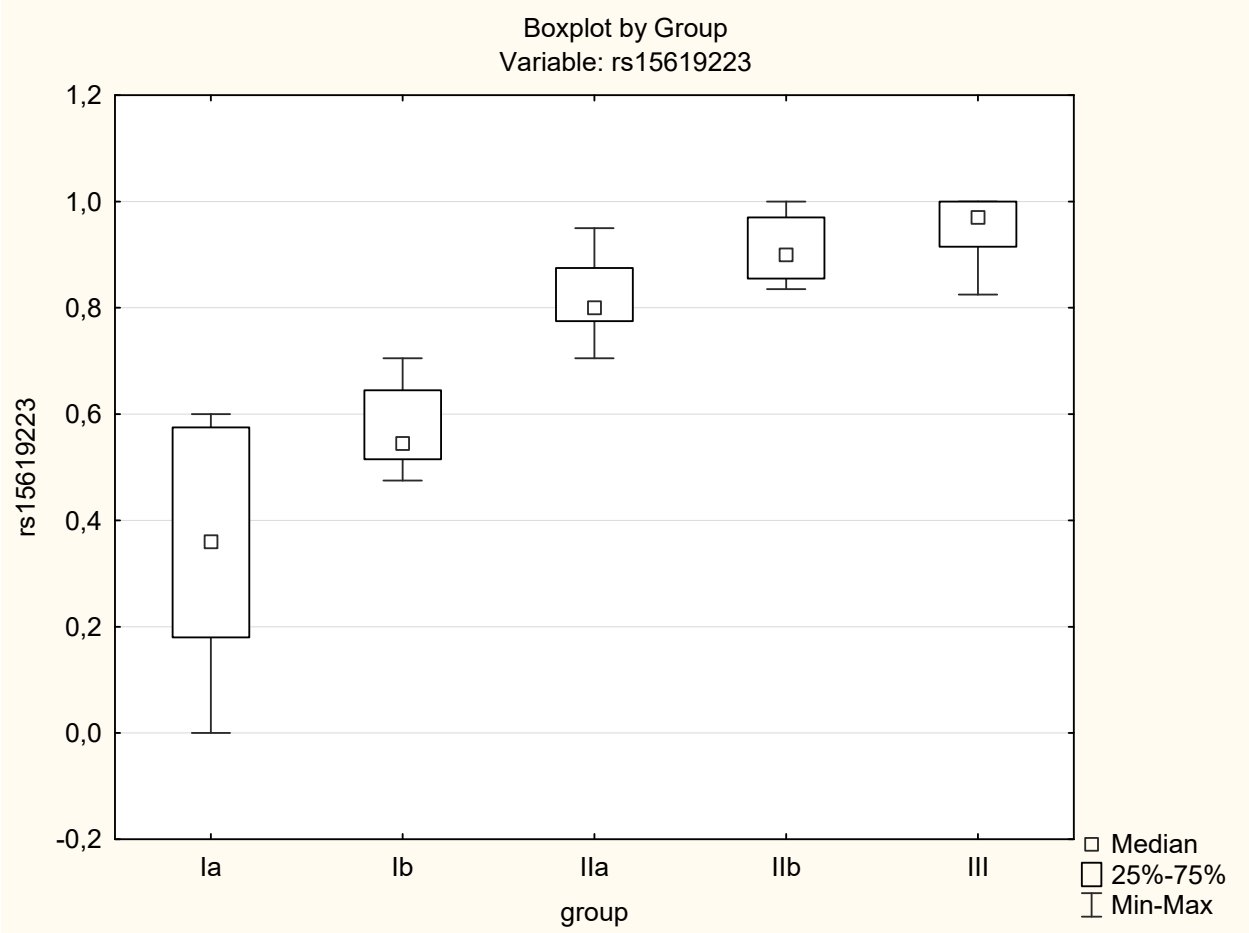
k: GGaluga265969



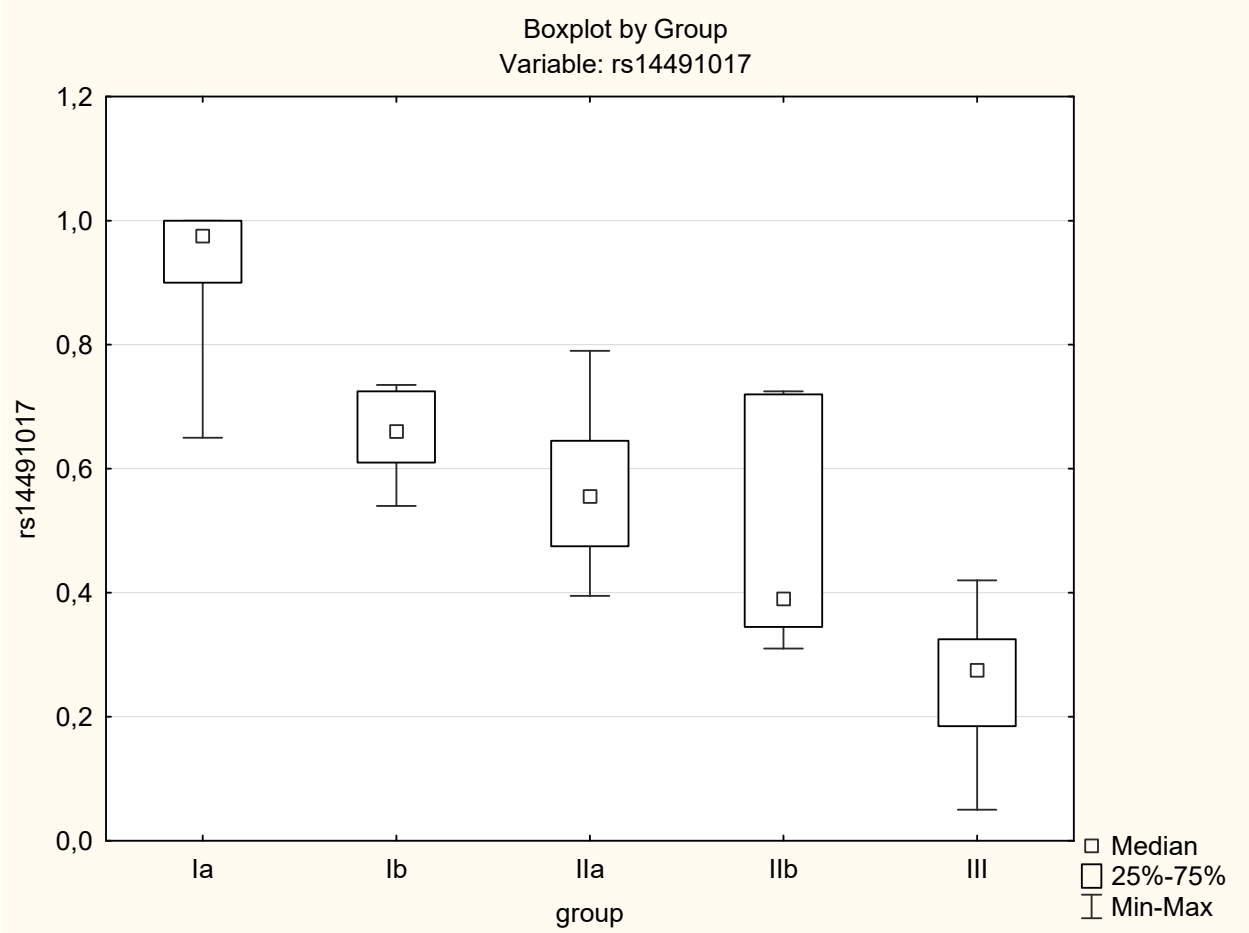
l: GGaluga265966



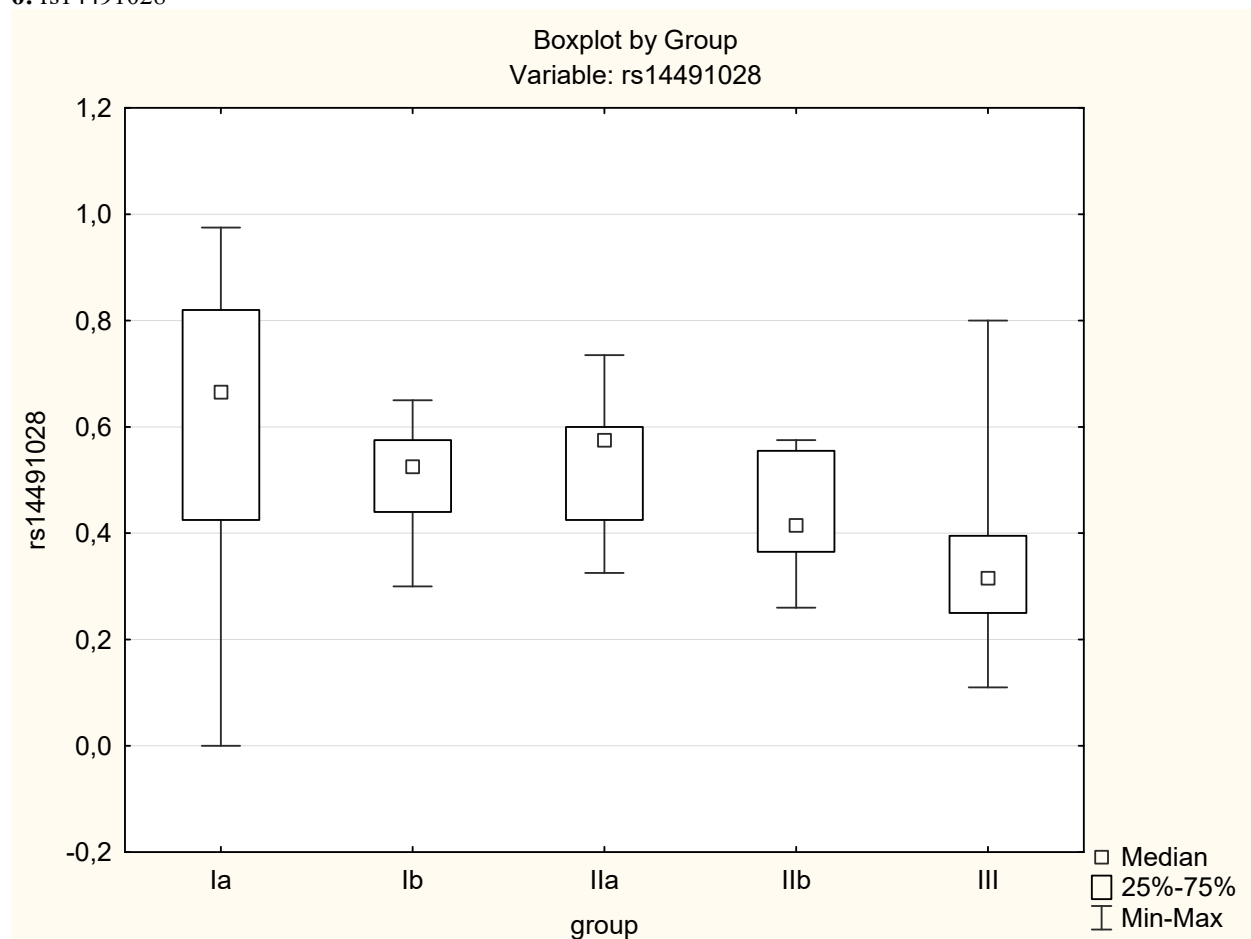
m: rs15619223



n: rs14491017



o: rs14491028



Groups compared at GGaluga265969	ETB/Ib	DPB/IIa	DPB/IIb	MTB/III	p-value
ETB/Ia	0.8734	0.4240	0.2221	0.8108	0.0025
ETB/Ib		0.0057	0.0017	0.6705	
DPB/IIa			0.1235	0.0022	
DPB/IIb				0.0009	

Groups compared at GGaluga265966	ETB/Ib	DPB/IIa	DPB/IIb	MTB/III	p-value
ETB/Ia	0.2030	0.0016	0.0261	0.0003	0.0002
ETB/Ib		0.0124	0.1594	0.0024	
DPB/IIa			0.2756	0.3495	
DPB/IIb				0.0840	

Groups compared at rs15619223	ETB/Ib	DPB/IIa	DPB/IIb	MTB/III	p-value
ETB/Ia	0.0805	0.0002	0.0008	0.0000	0.0000
ETB/Ib		0.0006	0.0017	0.0002	
DPB/IIa			0.0162	0.0003	
DPB/IIb				0.1730	

Groups compared at rs14491017	ETB/Ib	DPB/IIa	DPB/IIb	MTB/III	p-value
ETB/Ia	0.0035	0.0003	0.0017	0.0001	0.0000
ETB/Ib		0.0692	0.0832	0.0002	
DPB/IIa			0.2566	0.0000	
DPB/IIb				0.0022	

Groups compared at rs14491028	ETB/Ib	DPB/IIa	DPB/IIb	MTB/III	p-value
ETB/Ia	0.1855	0.2093	0.0638	0.0087	0.0019
ETB/Ib		0.4138	0.3368	0.0091	
DPB/IIa			0.0694	0.0011	
DPB/IIb				0.0667	