Text S2 Test matings to assess male fertility. Fifteen single-combed French Barbezieux males (rr), seven homozygous Rose-combed Charollaise males (R1R1) and seven heterozygous Rose-combed Charollaise males (R1r) were each mated to two single-combed Gauloise Grise females (rr) and two Rose-combed Charollaise females of unknown zygosity (R1-). Eggs were collected for 10 days after a single insemination of each female. Fertility of eggs was determined by candling at 8 days. Clear eggs were broken to distinguish early embryonic mortality from unfertilised eggs. Early dead embryos were counted in the 'fertile' group. Fertility rate differed significantly between the 3 groups ($\chi 2=19.5$ for 2 df, P<0.001). Fertility of heterozygous R1 males was the highest. Single-combed Barbezieux males exhibited a lower fertility rate than what is normally observed for single-combed roosters (Supplementary Table 1). Within the Charollaise breed, fertility rate of homozygous *R1R1* roosters was significantly lower than that of heterozygous R1r roosters ($\chi 2=16.5$ for 1 df, p<0.001). The Charollaise dams exhibited a lower fertility rate than the Gauloise Grise dams, which could be a breed effect, this was significant only when they were mated to Barbezieux males ($\gamma 2=6.28$ for 1 df, p<0.02) or to homozygous *R1R1* Charollaise males ($\gamma 2=14.7$ for 1 df, p<0.001). There was no significant effect of the dam genotype when they were mated to heterozygous Rose-combed Charollaise males, which exhibited the best fertility. Two single-combed Rhode Island Red males (rr) and two homozygous Rose-combed Alsacienne males (R2R2) were each mated to five and four single-combed White Leghorn females (rr), respectively. Females were inseminated twice a week, eggs were collected in three batches of one week each and fertility determined as described above. In case of a double-yolked egg, each yolk was counted as an observation (fertile, dead or unfertile). No statistical difference was found for fertility between R2R2 Rose-combed Alsacienne roosters and rr single-combed Rhode Island Red roosters.