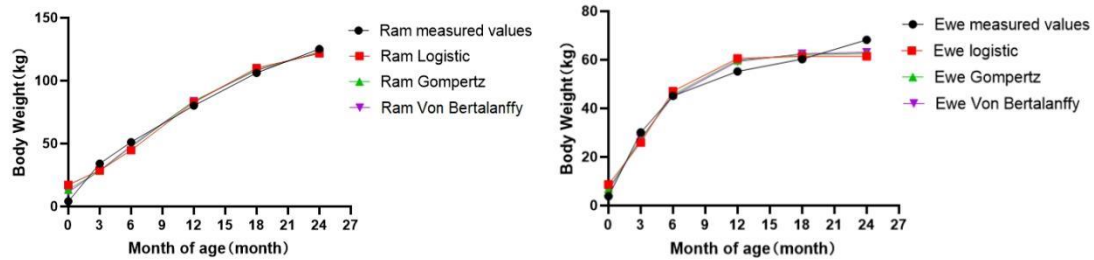
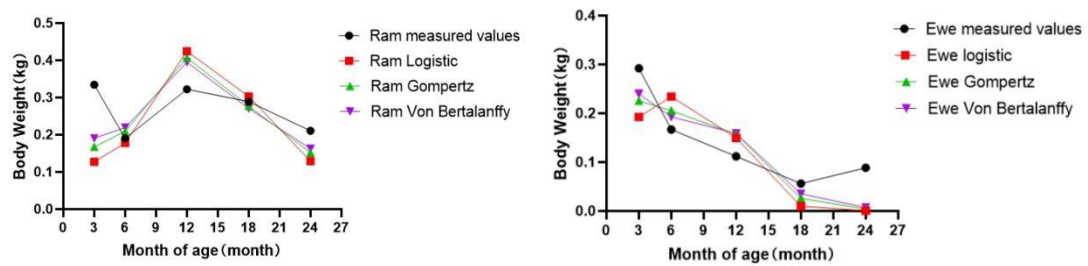


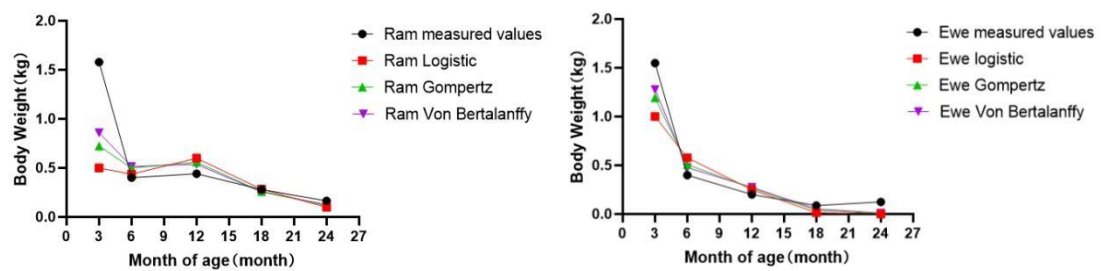
## Supplementary material



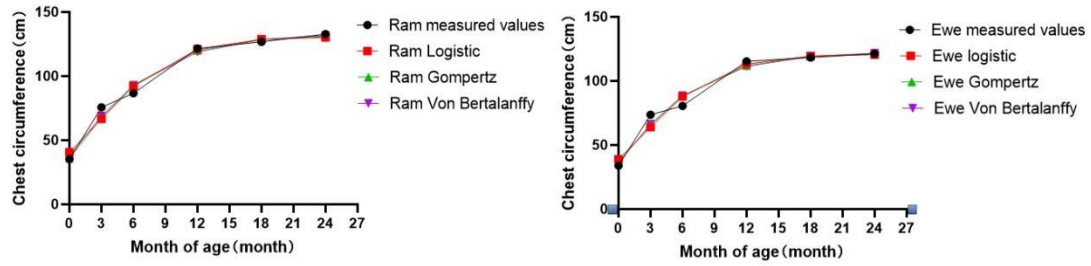
**Figure S1.** Cumulative growth curve of measured body weight and estimated weight of rams and ewes according to the models.



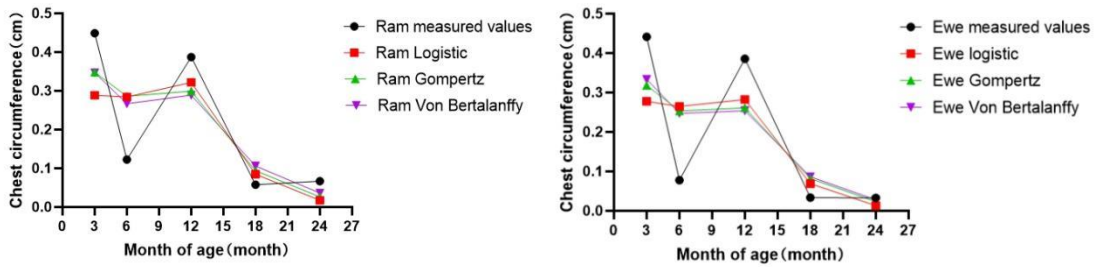
**Figure S2.** Absolute growth curve of measured body weight and estimated weight of rams and ewes according to the models.



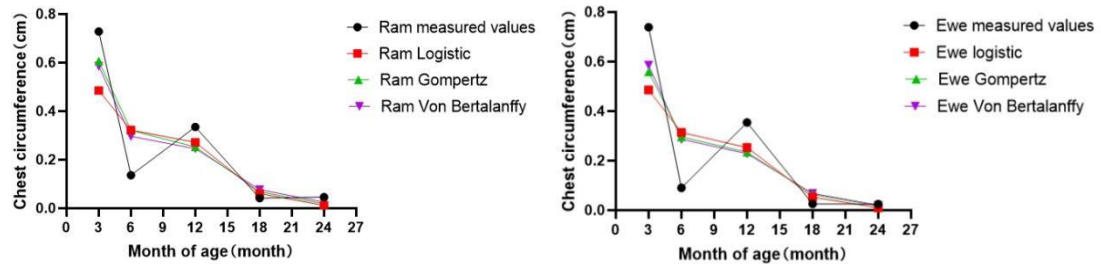
**Figure S3.** Relative growth curve of measured body weight and estimated weight of rams and ewes according to the models.



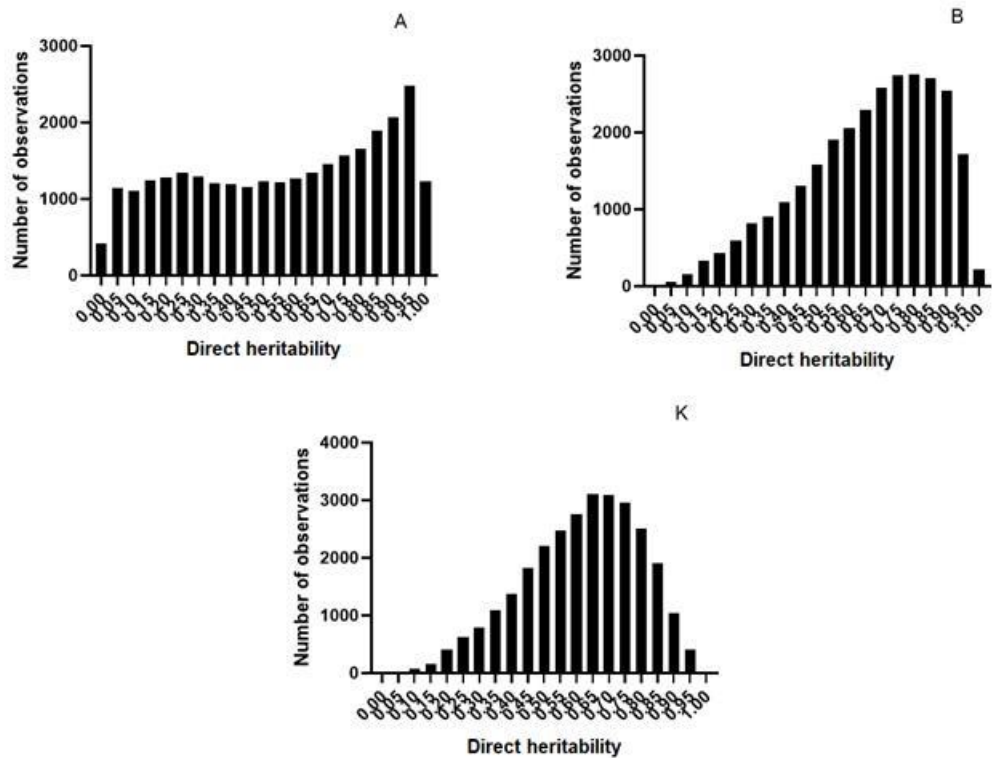
**Figure S4.** Cumulative growth curve of measured chest circumference and estimated chest circumference of rams and ewes according to the models.



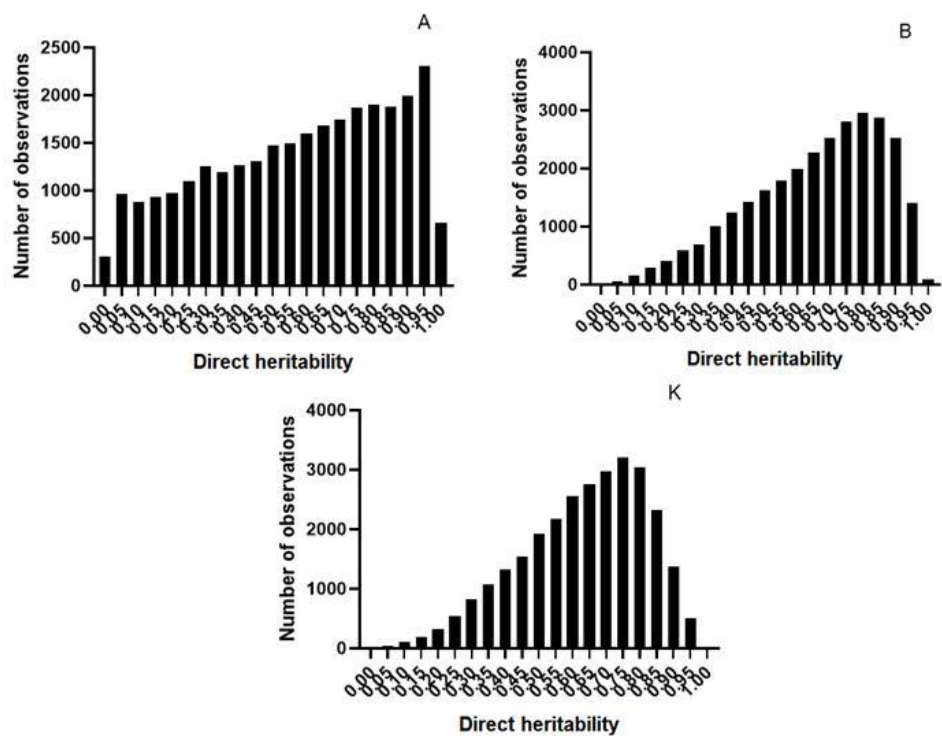
**Figure S5.** Absolute growth curve of measured chest circumference and estimated chest circumference of rams and ewes according to the models.



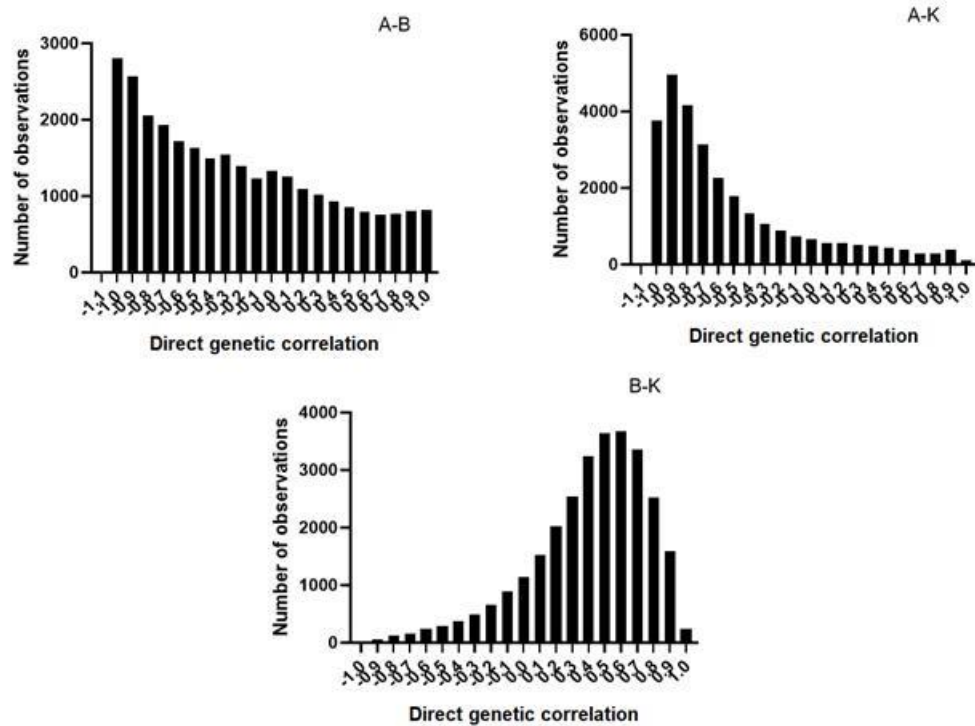
**Figure S6.** Relative growth curve of measured chest circumference and estimated chest circumference of rams and ewes according to the models.



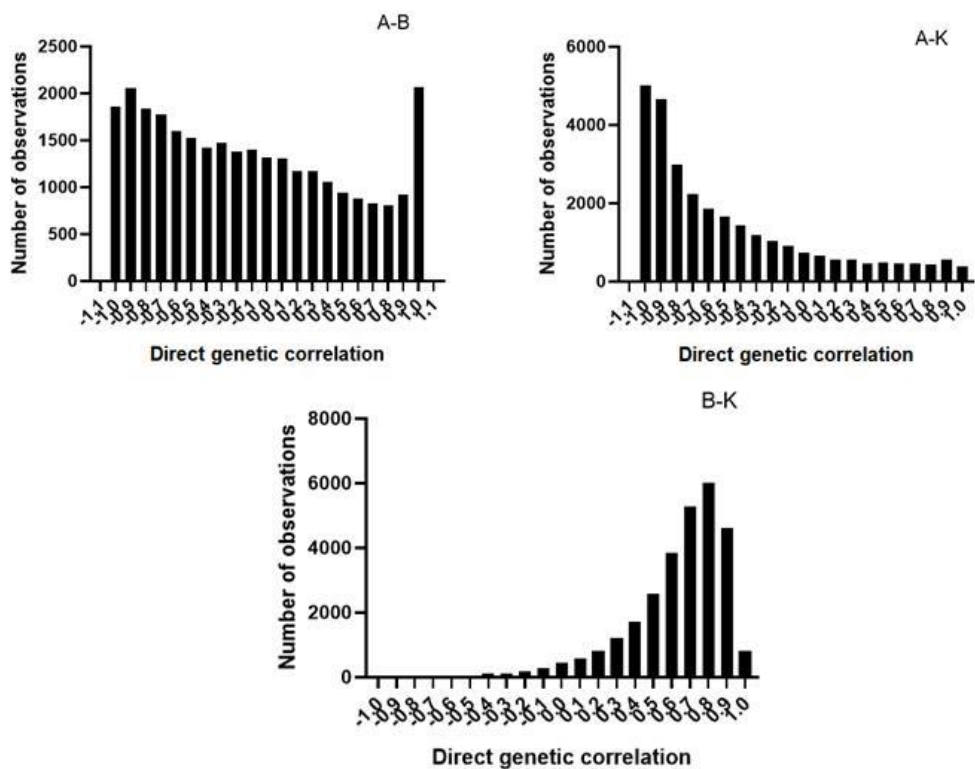
**Figure S7.** Posterior distribution of the direct heritabilities for A, B, and K growth curve parameters of weight.



**Figure S8.** Posterior distribution of the direct heritabilities for A, B, and K growth curve parameters of chest circumference.



**Figure S9.** Posterior distribution of direct genetic correlations between growth curve parameters of weight (A-B, A-K, and B-K).



**Figure S10.** Posterior distribution of direct genetic correlations b