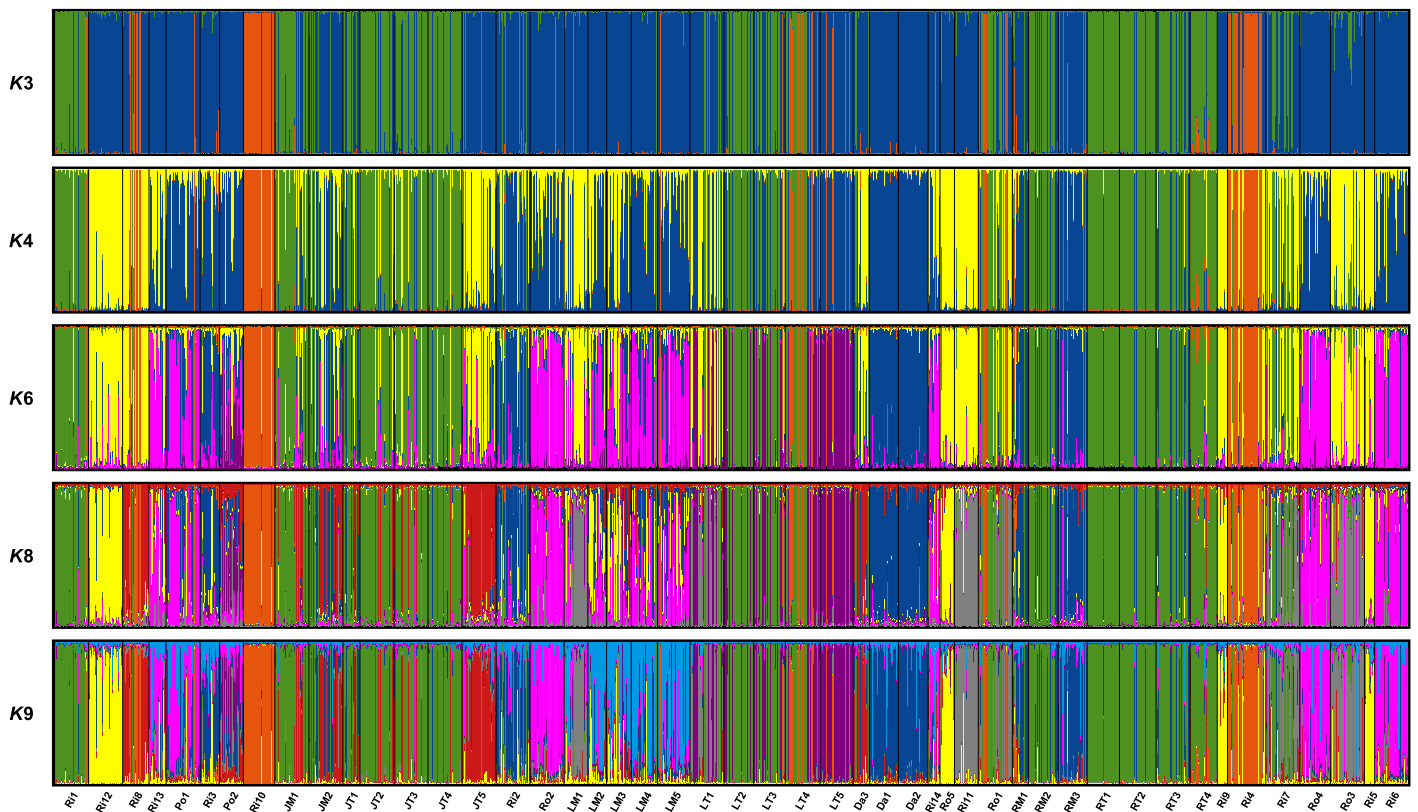


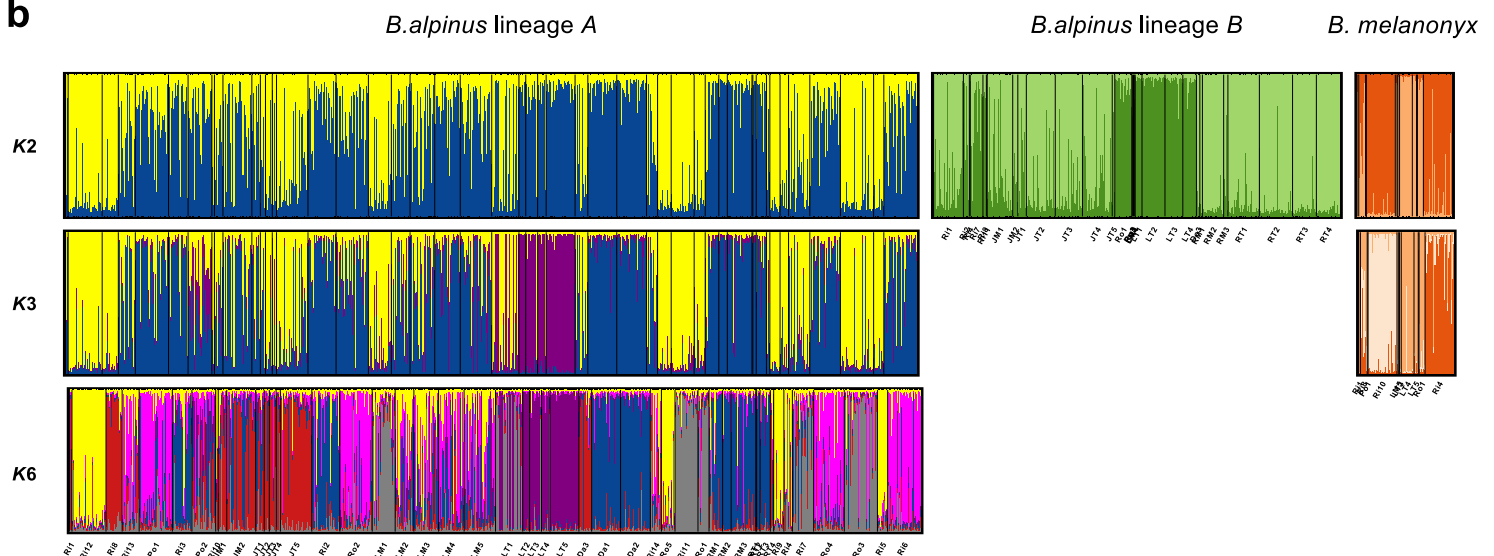
Additional file 4. Results from Bayesian clustering (STRUCTURE).

Individual assignment results from Bayesian clustering following Pritchard *et al.* (2000) performed on **(a)** 1591 individuals of the *B. alpinus* group (*s.l.*), including *B. alpinus* and *B. melanonyx* (corrected for multimodality) and, **(b)** *B. alpinus* cryptic lineages and *B. melanonyx* datasets separately. **(c)** STRUCTURE results for separate *B. alpinus* cryptic lineages and *B. melanonyx* datasets: mean (\pm SD) probabilities of the data $\ln \Pr(X|K)$ over 30 replicated runs plotted as a function of the putative number of clusters K (blue dots) and the standardized second-order rate of change of $\ln \Pr(X|K)$, ΔK , as a function of K (red dots).

a

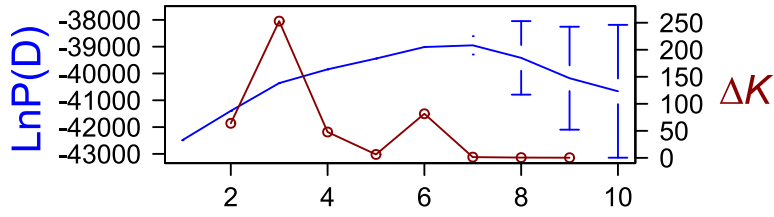


b

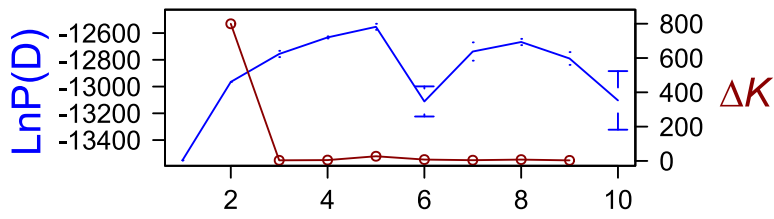


C

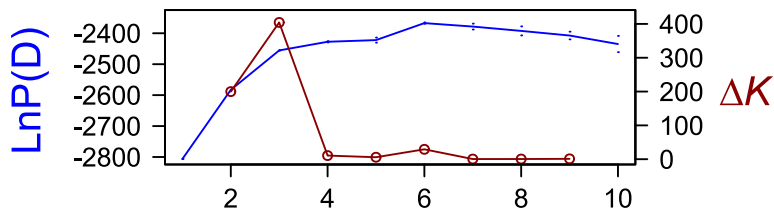
***B. alpinus* lineage A**



***B. alpinus* lineage B**



B. melanonyx



Reference:

Pritchard JK, Stephens M, Donnelly P: **Inference of population structure using multilocus genotype data.** *Genetics* 2000, **155**(2):945-959.