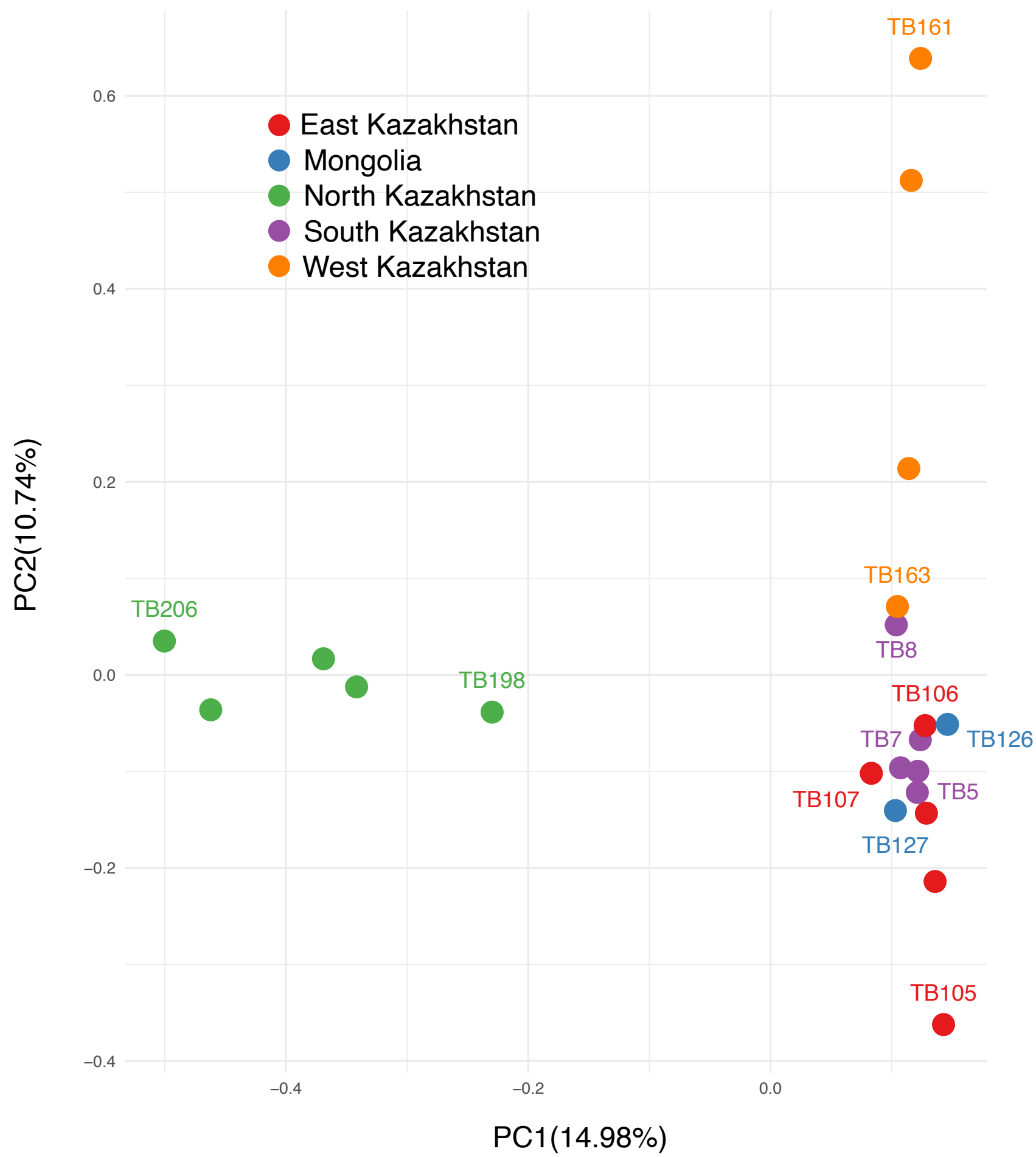
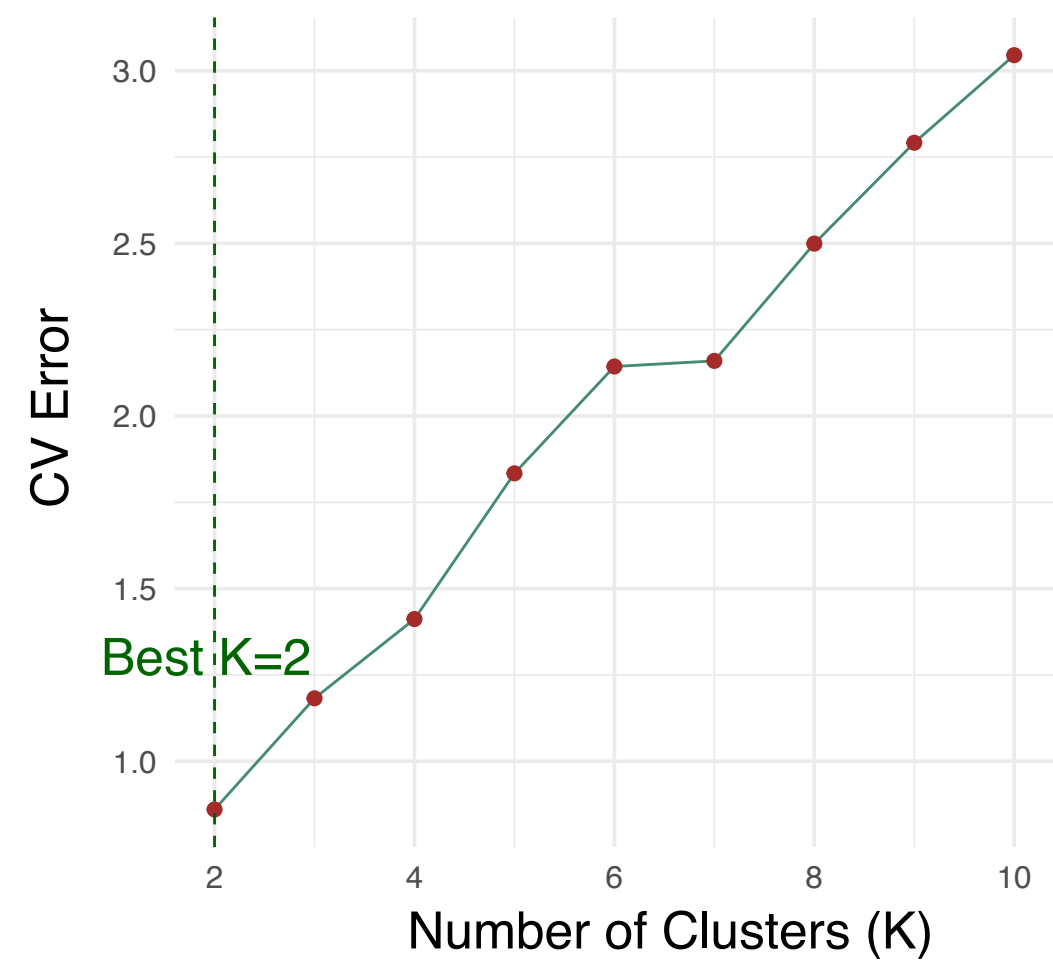


Additional file 2: Fig. S1 Genetic structure of Kazakh Tobet dogs based on a reduced dataset (maximum 5 dogs per region). **a** PCA plot. **b** Cross-validation (CV) errors for different K values. **c** Admixture plot for the best K = 2

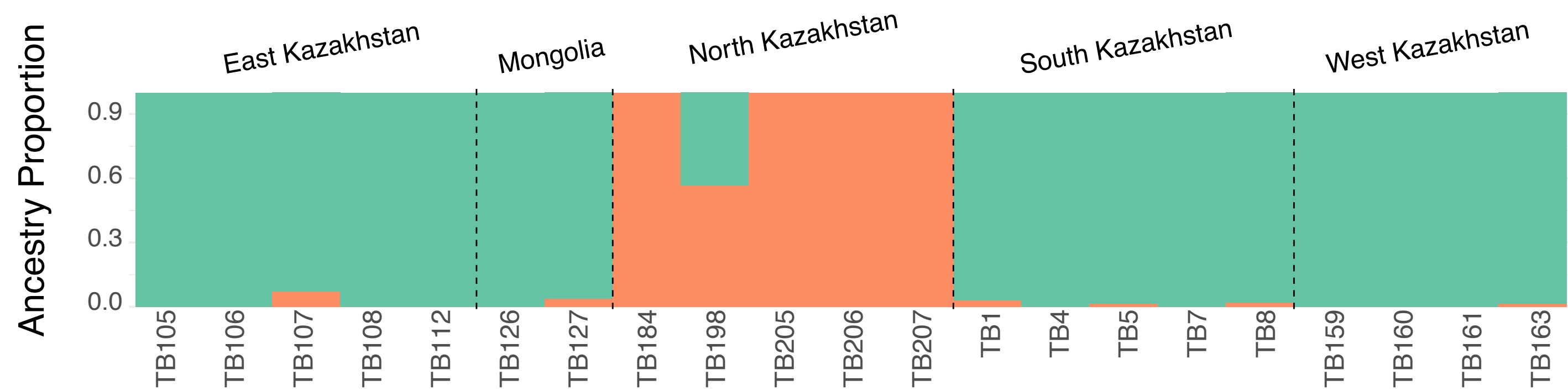
a



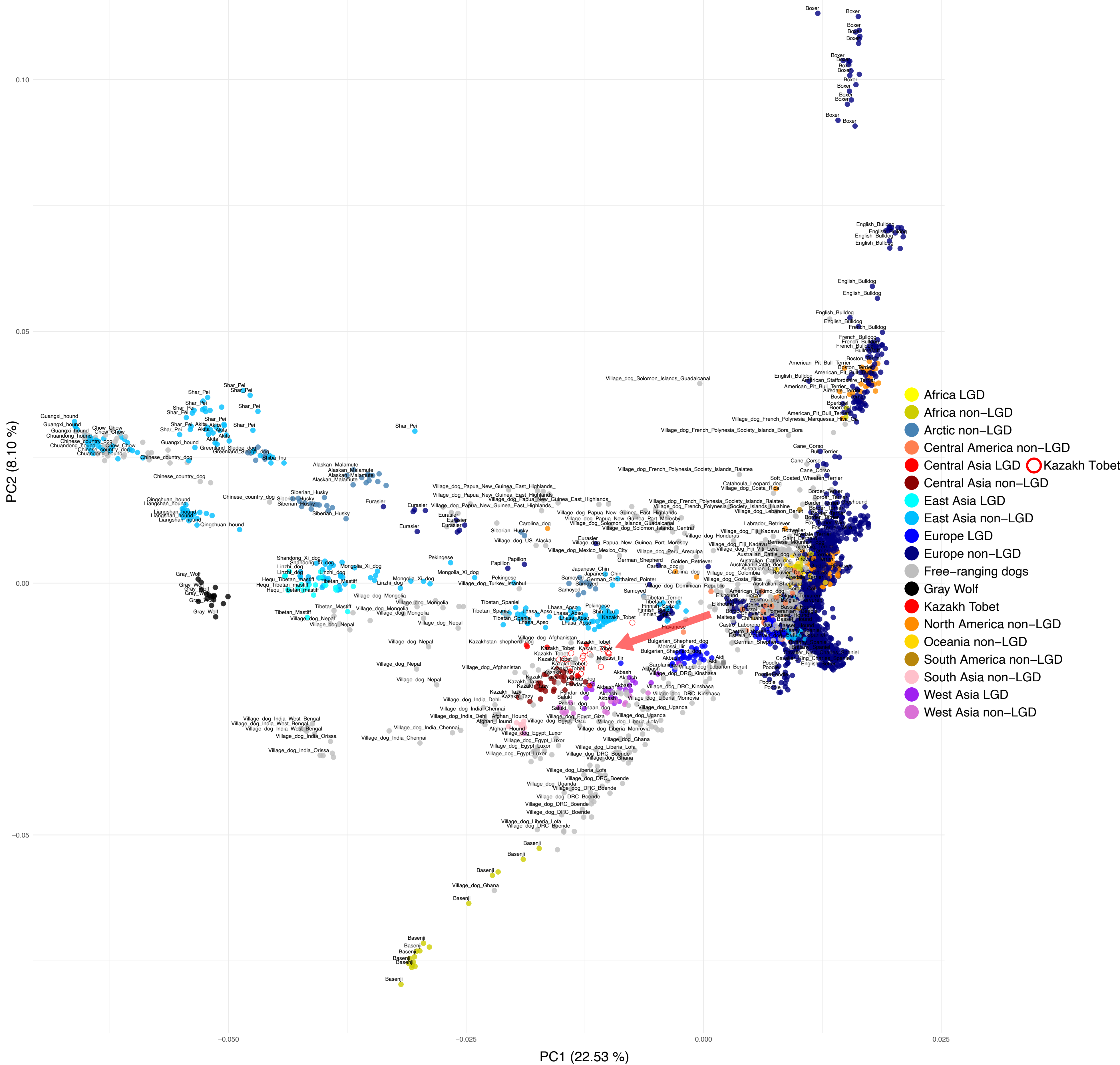
b



c

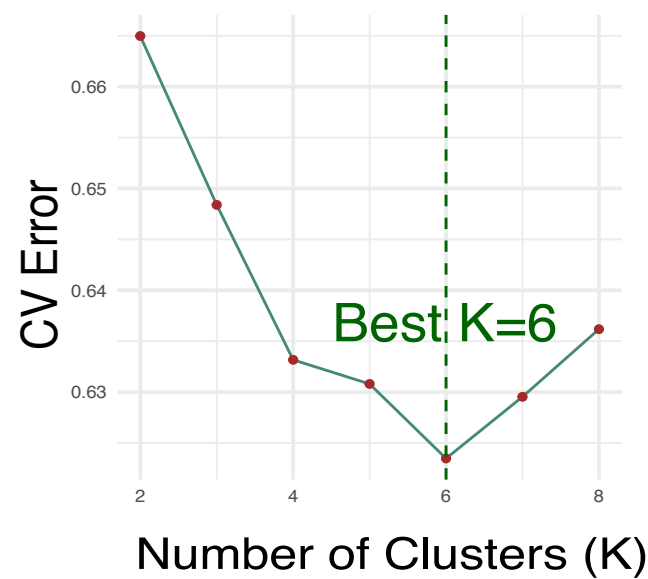


Additional file 2: Fig. S2. A detailed PCA plot of the LGD and non-LGD breeds and free-ranging dogs

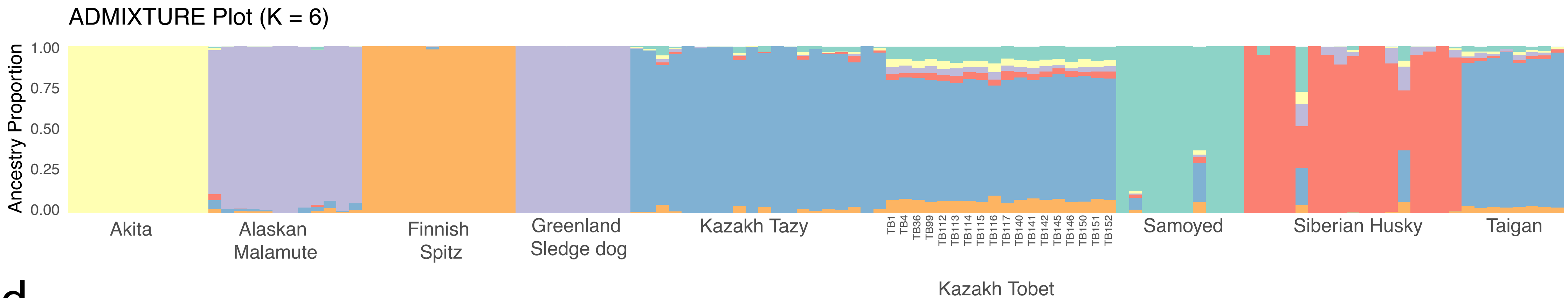


Additional file 2. Fig. S3. Comparative genetic structure of Kazakh Tobet dogs and non-LGD breeds. **a, c, e** Cross-validation (CV) errors across different K values. **b** Admixture plot showing genetic structure of Kazakh Tobet dogs in comparison with Central Asian and Arctic non-LGD breeds at the optimal K values. **d** Admixture plot of Kazakh Tobet dogs, African and East Asian non-LGD breeds at the optimal K values. **f** Admixture plot of Kazakh Tobet dogs and molossoid non-LGD breeds, including individuals from North Kazakhstan (TB198–TB208), which showed a distinct genetic profile in both PCA and admixture analyses

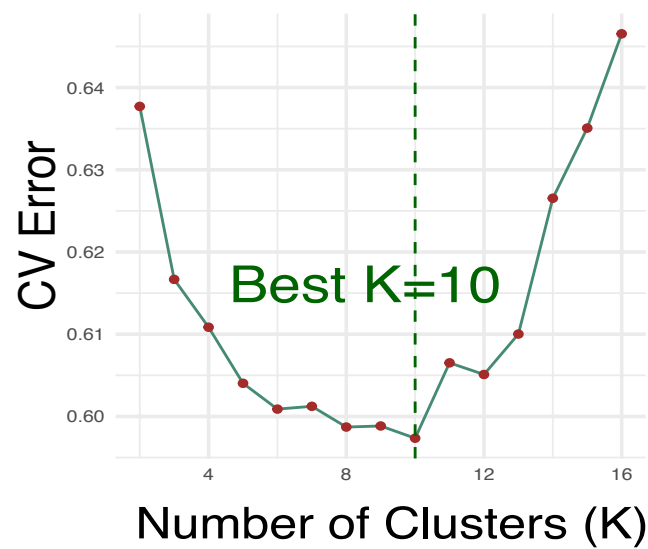
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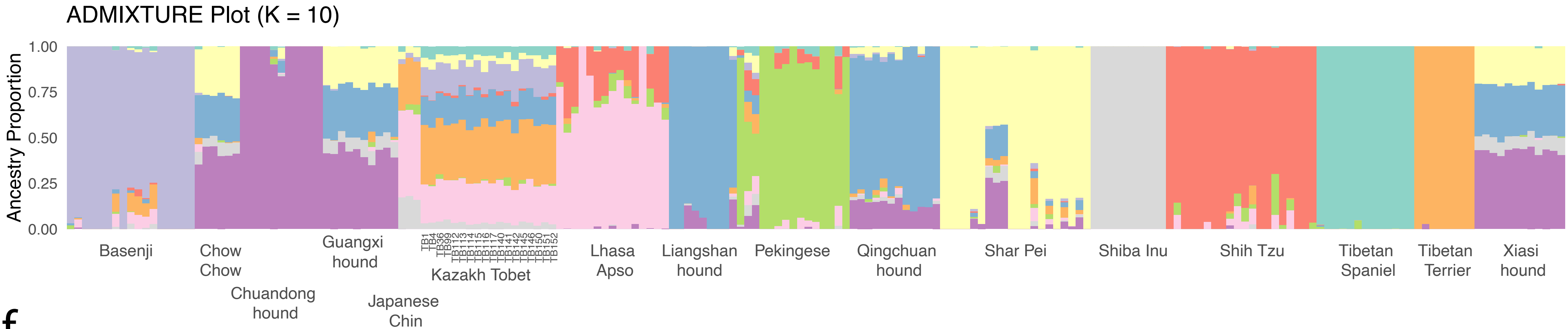
b



c



d



e



f

