Supplementary files for “Investigating the population structure and genetic differentiation of livestock guard dog breeds”

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**Figure S1** Graph of ΔK averaged over ten runs at each value of K, which was calculated according to the method of Evanno *et al.* (2005).

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| --- | --- | --- | --- |
| ***Locus*** | ***Breed*** | *Allele* | ***Freq*** |
| AHTH 121 | CAD | 90 | 0,063 |
| AHTH 260 | CAD | 252 | 0,042 |
| CXX 279 | CAD | 114 | 0,042 |
| CXX 279 | CAD | 132 | 0,021 |
| CXX 279 | CAD | 134 | 0,042 |
| FH2054 | CAD | 158 | 0,023 |
| FH 2848 | CAD | 246 | 0,042 |
| INU 030 | CAD | 154 | 0,063 |
| INU 055 | CAD | 198 | 0,021 |
| REN 162C04 | CAD | 190 | 0,021 |
| REN 162C04 | CAD | 192 | 0,042 |
| REN 162C04 | CAD | 196 | 0,063 |
| REN 162C04 | CAD | 216 | 0,021 |
| REN 169D01 | CAD | 222 | 0,021 |
| REN 247M23 | CAD | 258 | 0,021 |
| REN 247M23 | CAD | 282 | 0,021 |
| FH2054 | COR | 162 | 0,014 |
| FH2054 | COR | 174 | 0,157 |
| REN 54P11 | COR | 224 | 0,014 |
| AHTH 121 | MAN | 92 | 0,068 |
| AHTH 121 | MAN | 114 | 0,017 |
| CXX 279 | MAN | 128 | 0,008 |
| INU 055 | MAN | 208 | 0,076 |
| REN 247M23 | MAN | 264 | 0,051 |
| AHT 137 | MSD | 155 | 0,023 |
| AHTK 253 | MSD | 296 | 0,023 |
| CXX 279 | MSD | 122 | 0,023 |
| CXX 279 | MSD | 188 | 0,045 |
| INU 005 | MSD | 104 | 0,136 |
| AHTH 121 | SIL | 84 | 0,100 |
| AHTH 121 | SIL | 88 | 0,020 |
| AHTK 253 | SIL | 300 | 0,019 |
| FH 2848 | SIL | 228 | 0,019 |
| INU 030 | SIL | 158 | 0,019 |
| REN 169D01 | SIL | 204 | 0,135 |

**Table S1** *Private alleles for the six studied breeds: Locus, Breed, Allele, Frequency.*