

Table S1 Genetic diversity of the Lundehund in comparison to other breeds genotyped on the Illumina Canine High Density Beadchip. The mean minor allele frequency (MAF) over all 133,715 SNPs analysed, the proportion of informative markers ($\text{MAF} > 0.05$), the mean number of informative marker, the fixation index F_{IS} and the observed (H_o) and expected (H_e) heterozygosity are given.

Breed	Mean MAF	Proportion of informative SNPs	Number of informative SNPs	F_{IS}	H_o	H_e
Appenzell Mountain Dog	0.14	0.55	73,772	0.45	0.20	0.24
Bernese Mountain Dog	0.16	0.69	92,402	0.27	0.26	0.26
Dalmatian	0.18	0.75	100,661	0.20	0.29	0.30
English Cocker Spaniel	0.18	0.73	98,111	0.31	0.25	0.30
English Springer Spaniel	0.19	0.73	98,167	0.17	0.30	0.31
Entlebuch Mountain Dog	0.15	0.58	77,357	0.38	0.23	0.26
German Pinscher	0.17	0.68	91,312	0.27	0.26	0.28
German Wirehaired Pointer	0.20	0.81	108,121	0.13	0.31	0.32
Great Dane	0.17	0.67	89,925	0.18	0.30	0.28
Greater Swiss Mountain Dog	0.15	0.58	78,849	0.38	0.22	0.26
Great Pyrenees	0.19	0.77	103,363	0.18	0.30	0.31
Kuvasz	0.20	0.80	106,447	0.11	0.33	0.32
Lundehund	0.03	0.11	15,344	0.87	0.05	0.05
Parson Russell Terrier	0.22	0.89	119,474	0.05	0.35	0.34
PON	0.17	0.65	86,665	0.26	0.27	0.28
Across-breed	0.17	1.00	133,715	0.22	0.28	0.28