

**Table S1: Quality control summary.** The table shows the number of markers removed due to low minor allele frequency (row 1) and low call rate (row 2). The first column shows the quality control results when analyzing all breeds together, and successive columns display the results from the breed specific analysis.

	<b>All breeds</b>	<b>Belgian Shepherds</b>	<b>German Shepherds</b>	<b>Labrador Retrievers</b>
<b>Minor allele frequency &lt; 5%</b>	33,004 (17.8%)	44,433 (24%)	73,030 (39.4%)	55,656 (30%)
<b>Call rate &lt; 95%</b>	13,600 (7.3%)	15,600 (8.4%)	13,532 (7.3%)	13391 (7.2%)
<b>Total</b>	46,604 (25.1%)	47,774 (32.4%)	74,256 (46.7%)	69,047 (37.2%)