

Table S2. Distribution of Norberg Angle measurements (number of dogs).

Norberg Angle (°)	Illumina Array	Customized array	Overlap	Total
~70	2	8	2	8
71~80	7	19	6	20
81~90	17	22	12	27
91~100	64	69	43	90
101~110	226	337	114	449
111~120	50	96	19	127
Total	366	551	196	721

There were 721 dogs genotyped with the Illumina array, the customized array, or both (overlap). Each dog had a measurement on Norberg Angle which is a continuous trait ranging from ~50° (a subluxated hip) to ~120° (a phenotypically unaffected hip).