

**Supplementary Information, Table S1 Sample information and sequencing throughput**

	<b>Location</b>	<b>Internal ID</b>	<b><u>Abbreviation</u></b>	<b>Population Name</b>	<b># Reads</b>	<b># Mappable Reads</b>	<b>Coverage</b>
North China	Xi'an #	FAMICHN00001(do gCI1)	-	Chinese indigenous dogs	501,320,632	379,500,964	13.56
	Ya'an #	FAMICHN00003(do gCI3)	-	Chinese indigenous dogs	256,257,546	208,842,818	10.25
	Dalian	FAMICHN00004	-	Chinese indigenous dogs	425,767,262	416,124,220	16.2
	Gansu	FAMICHN00005	-	Chinese indigenous dogs	447,635,390	440,899,248	18.5
	Gansu	FAMICHN00006	-	Chinese indigenous dogs	438,807,084	434,379,436	14.9
	Gansu	FAMICHN00007	-	Chinese indigenous dogs	410,559,676	405,277,484	17.2
	Hebei	FAMICHN00012	-	Chinese indigenous dogs	456,106,666	445,694,949	17.7
	Shanxi	FAMICHN00014	-	Chinese indigenous dogs	472,063,048	459,725,323	16.3
	Shanxi	FAMICHN00015	-	Chinese indigenous dogs	423,119,788	412,471,810	15.8
	Shaanxi	FAMICHN00016	-	Chinese indigenous dogs	436,695,632	417,248,612	16.7
	Shaanxi	FAMICHN00017	-	Chinese indigenous dogs	313,493,136	304,925,107	11.8
Xinjiang	FAMICHN00019	-	Chinese indigenous dogs	467,579,742	461,276,809	16.8	
South China	Ya'an#	FAMICHN00002(do gCI2)	-	Chinese indigenous dogs	340,944,550	188,142,458	9.83
	Guangdong	FAMICHN00010	-	Chinese indigenous dogs	424,086,052	414,375,959	16.6
	Guizhou	FAMICHN00011	-	Chinese indigenous dogs	433,775,426	426,300,456	16.1
	Yunnan	FAMICHN00021	-	Chinese indigenous dogs	400,561,080	395,441,104	15.0
	Yunnan	FAMICHN00023	-	Chinese indigenous dogs	444,278,360	429,321,106	15.6
	Anhui	FAMICHN00025	-	Chinese indigenous dogs	271,030,020	214,077,128	8.3
China/Vietnam border region	China/Vietnam border	FAMIVNM00001	-	Chinese indigenous dogs	405,241,522	392,367,844	16.4
	China/Vietnam border	FAMIVNM00002	-	Chinese indigenous dogs	423,233,512	411,213,685	17.2

	China/Vietnam border	FAMIVNM00003	-	Chinese indigenous dogs	378,294,026	345,453,760	14.4
	China/Vietnam border	FAMIVNM00004	-	Chinese indigenous dogs	442,436,614	436,365,448	18.4
	China/Vietnam border	FAMIVNM00005	-	Chinese indigenous dogs	431,196,780	423,866,135	17.8
Africa	Ibadan, Nigeria	FAMINGR00001	<u>AF</u>	Nigerian dogs	431,318,600	425,869,086	16.5
	Ondo, Nigeria	FAMINGR00002	<u>AF</u>	Nigerian dogs	431,243,540	424,894,582	16.3
	Uyo, Nigeria	FAMINGR00003	<u>AF</u>	Nigerian dogs	402,118,442	380,042,436	14.5
	Taraba State, Jalingo City, Nigeria	FAMINGR00004	<u>AF</u>	Nigerian dogs	441,067,384	433,777,247	16.8
Breed dogs	Afghan	FAMBAGF00001	<u>AFG</u>	Afghan	430,297,050	421,455,097	16.1
	Alaskan Malamute	FAMBALM00001	<u>ALM</u>	Alaskan Malamute	395,998,704	390,060,562	15.0
	Chihuahua	FAMBCHI00001	<u>CHI</u>	Chihuahua	450,505,562	440,258,832	16.5
	Galgo Español	FAMBGAL00001	<u>GAL</u>	Galgo Español (Spanish greyhound)	417,546,704	412,723,974	12.9
	Greenland dog	FAMGRD00001	<u>GRD</u>	Greenland dog	405,114,256	397,809,809	14.8
	Gray Norwegian Elkhound	FAMBGNE00001	<u>GNE</u>	Gray Norwegian Elkhound	451,936,584	446,647,240	16.8
	Jämthund	FAMBJAM00001	<u>JAM</u>	Jämthund	885,501,424	874,326,644	34.7
	Lapponian Herder	FAMBLAH00001	<u>LAH</u>	Lapponian Herder	387,237,594	383,311,716	14.7
	Mexican naked (hairless)	FAMBMEN00001	<u>MEN</u>	Mexican naked (hairless)	399,454,374	391,671,681	15.1
	Peruvian naked (hairless)	FAMBPEN00001	<u>PEN</u>	Peruvian naked (hairless)	433,291,614	426,506,956	16.2
	Swedish Lapphund	FAMBSWL00001	<u>SWL</u>	Swedish Lapphund	413,569,460	409,911,397	16.3
	Samoyed	FAMBSAM00001	<u>SAM</u>	Samoyed	404,482,166	400,157,800	13.5
	Siberian Husky	FAMBSIH00001	<u>SIH</u>	Siberian Husky	431,981,998	425,258,352	12.8

	East Siberian Laika	FAMBESL00001	<u>ESL</u>	East Siberian Laika	425,030,978	414,674,161	15.5
	Finnish Lapphund	FAMBFIL00001	<u>FIL</u>	Finnish Lapphund	415,114,298	410,055,972	14.1
	Sloughi	FAMBSLO00001	<u>SLO</u>	Sloughi	463,318,386	457,913,723	17.9
	German Shepherd Dog <sup>#</sup>	FAMBGSD00001(do gGS)	<u>GSD</u>	German Shepherd Dog	511,223,572	450,994,503	9.56
	Tibetan Mastiff <sup>#</sup>	FAMBTIM00001(do gTM)	<u>TIM</u>	Tibetan Mastiff	388,735,064	328,358,588	10.37
	Belgian Malinois <sup>#</sup>	FAMBBEM00001(do gBM)	<u>BEM</u>	Belgian Malinois	380,208,396	375,315,337	10.11
Wolves	Inner Mongolia	LUPZCHN00002	<u>W</u>	Gray wolves	372,636,036	309,361,402	9.9
	Liaoning	LUPWCHN00003	<u>W</u>	Gray wolves	407,054,798	394,673,018	15.5
	Shanxi	LUPZCHN00005	<u>W</u>	Gray wolves	299,880,830	256,943,167	8.5
	Shanxi	LUPZCHN00006	<u>W</u>	Gray wolves	421,498,238	409,627,830	12.6
	Xinjiang	LUPWCHN00008	<u>W</u>	Gray wolves	425,195,874	391,242,303	11.7
	Xinjiang	LUPWCHN00009	<u>W</u>	Gray wolves	763,602,328	735,932,849	28.2
	Xinjiang	LUPWCHN00010	<u>W</u>	Gray wolves	451,433,936	445,031,162	15.9
	Xinjiang	LUPWCHN00013	<u>W</u>	Gray wolves	570,411,354	464,887,817	17.0
	Inner Mongolia, China <sup>#</sup>	LUPWCHN00001(G W4)	<u>W</u>	Gray wolves	508,059,006	470,450,456	9.61
	Altai, Russia <sup>#</sup>	LUPWRUS00001(G W1)	<u>W</u>	Gray wolves	324,353,286	275,881,595	11.24
	Chukotka, Russia <sup>#</sup>	LUPWRUS00002(G W2)	<u>W</u>	Gray wolves	230,568,082	199,744,251	8.92
	Bryansk, Russia <sup>#</sup>	LUPWRUS00003(G W3)	<u>W</u>	Gray wolves	434,683,532	308,523,354	11.10
Dhole	Beijing Zoo	RUFZCHN00001		Cuon alpinus	1,097,037,696	1,040,336,193	16.1

#Those samples are sequenced in a previous study<sup>1</sup>. Their IDs in that paper are provided in parentheses in Internal ID column.

<sup>1</sup>Wang GD, Zhai W, Yang HC *et al.* The genomics of selection in dogs and the parallel evolution between dogs and humans. *Nature communications* 2013; **4**:1860.