

	European						Chinese				
Breed	Berkshire	Duroc	Hampshire	Landrace	Large White	Piértrain	Bamei	Jinhua	Meishan	Rongchang	Tibetan wild boar
											
Place of origin	England	USA	USA	Denmark	England	Belgium	China	China	China	China	China
Colour	Black, six white points	Red	Black, white belt	White	White	White, black spots	Black	White, black head and rump	Black, white points	White, black points in head	Black
Ears	Erect	Droop	Erect	Droop	Erect	Erect	Extremely large and droop	Droop	Droop	Droop	Erect
Size and growth ^a	Moderate	Moderate to high	Moderate to high	Moderate	Moderate	Moderate	Low	Low	Low	Low	Low
Carcass lean meat percentage (%)	63.5 ± 0.32 (n = 12)	64.81 ± 0.78 (n = 20)	65.34 ± 0.89 (n = 26)	65.69 ± 0.97 (n = 16)	66.71 ± 0.71 (n = 18)	73.14 ± 0.68 (n = 14)	44.87 ± 0.66 (n = 12)	47.70 ± 0.75 (n = 48)	43.42 ± 0.35 (n = 37)	41.80 ± 0.39 (n = 12)	41.68 ± 0.52 (n = 8)
Prolificacy	Moderate	Moderate	Moderate	High	High	Moderate	High	High	Very high	High	Low
Litter size (the 1 st parity)	8.1 ± 2.81 (n = 73)	9.12 ± 0.22 (n = 155)	8.3 ± 0.76 (n = 17)	10.91 ± 0.08 (n = 1,125)	11.50 ± 0.08 (n = 767)	9.32 ± 0.26 (n = 131)	7.12 ± 1.1 (n = 21)	9.82 ± 0.25 (n = 146)	11.91 ± 0.36 (n = 100)	8.56 ± 0.23 (n = 122)	6.03 ± 0.37 (n = 39)
Litter size (the 2 nd parity)	8.01 ± 2.66 (n = 34)	9.55 ± 0.26 (n = 114)	8.6 ± 0.55 (n = 29)	11.96 ± 0.1 (n = 844)	11.87 ± 0.11 (n = 513)	9.78 ± 0.25 (n = 94)	10.3 ± 0.22 (n = 18)	10.19 ± 0.28 (n = 175)	14.74 ± 0.32 (n = 100)		7.59 ± 0.54 (n = 27)
Litter size (the 3 rd to 7 th parities)	8.8 ± 1.2 (n = 55)	10.26 ± 0.27 (n = 95)	9.6 ± 0.54 (n = 34)	12.45 ± 0.11 (n = 707)	12.19 ± 0.07 (n = 1,294)	10.45 ± 0.31 (n = 75)	12.88 ± 4.01 (n = 30)	11.56 ± 0.34 (n = 162)	16.21 ± 0.41 (n = 100)	11.7 ± 0.27 (n = 122)	8.42 ± 0.49 (n = 45)

Supplemental Fig. S1. Origin and phenotypic diversity of pig breeds used in this study (Data from Supplemental ref. 1). Values are means ± s.d. To date, there are likely over 730 pig breeds or lines worldwide, of which over 270 are considered as endangered or critical, and 58 pig breeds are recorded as ‘transboundary’ (occurring in more than one country)². The worldwide distribution of pigs is dominated by six international transboundary pig breeds originated in Europe, i.e. Large white, Duroc, Landrace, Hampshire, Piértrain and Berkshire (DAD-IS database, Supplemental URLs). The Duroc (the donor for the reference pig genome) and Hampshire pigs originated in Europe, but were mainly developed in North America. ^a Terms such as high, moderate and low are relative. For breeds that have been well studied, the terms reflect information derived from objective breed comparisons. For other breeds, the terms are more subjective.