

**Supplementary Table S1.** The genomic inflation factor ( $\lambda$ ) for each GWAS using chip and imputation data in pigs.

Traits	TNB	NBA	LBW	GL	NW
$\lambda$ (chip)	1.276	1.219	1.022	1.079	0.978
$\lambda$ (PHARP)	0.964	1.095	1.012	1.030	0.976
$\lambda$ (SWIM)	0.889	1.132	1.019	1.002	0.957