

## Supplementary materials

**Table S1** Distributions of SNPs after quality control and the average distance between adjacent SNPs on each chromosome

SSC	SNP no.	Physical size <sup>1</sup> /Mb	SNP/Mb
1	3670	314.93	0.0858
2	2447	162.28	0.0663
3	1872	143.99	0.0769
4	2499	143.40	0.0574
5	1524	111.23	0.0730
6	2047	157.53	0.0770
7	2268	134.51	0.0593
8	2159	147.27	0.0682
9	2144	153.43	0.0716
10	1361	77.73	0.0571
11	1448	87.63	0.0605
12	1141	63.41	0.0556
13	2751	218.12	0.0793
14	2806	153.53	0.0547
15	2100	157.40	0.0750
16	1370	86.69	0.0633
17	1259	69.32	0.0551
18	925	60.91	0.0658
23	750	143.58	0.1914
Unmapped	5252		
	41793	2586.89	

Note: SNP, single nucleotide polymorphisms; SSC, *Sus scrofa* chromosome; <sup>1</sup> The physical size is based on *Sus scrofa* Build 10.2.

**Table S2** Assignment of significant SNPS to previously reported QTL for IMF content in pig QTL database (on Apr 3, 2016)

Trait <sup>1</sup>	SNP	SSC <sup>2</sup>	SNP position <sup>3</sup> /bp	Starting QTL position <sup>4</sup> /bp	Ending QTL position <sup>5</sup> /bp	QTL_ID <sup>6</sup>	Corresponded trait in QTL database
IMF	ASGA0038200	8	23147683	19749801	39840424	5148	IMF
	H3GA0024419	8	23477511	19749801	39840424	5148	IMF
	DRGA0008413	8	23561975	19749801	39840424	5148	IMF
	ASGA0038214	8	23585035	19749801	39840424	5148	IMF
	ASGA0089289	8	24298660	19749801	39840424	5148	IMF
	DRGA0008418	8	24386346	19749801	39840424	5148	IMF

Note: <sup>1</sup> IMF, intramuscular fat; <sup>2</sup> *Sus scrofa* chromosome; <sup>3</sup> SNP positions in the *scrofa* 10.2 reference genome; <sup>4</sup> starting position of mapped QTL; <sup>5</sup> ending position of mapped QTL; <sup>6</sup> identity of QTL in pig QTL database or published literature.