

Genome-wide association studies, meta-analyses and derived gene network for meat quality and carcass traits in pigs

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Table S1. Carcass and meat quality traits evaluated.

Evaluated Trait	Description	Abbreviation
Carcass traits	Hot carcass weight including feet and head	CW
	Carcass yield including feet and head	CY
	Carcass length by the Brazilian carcass classification method	CLBRA
	Carcass length by the American carcass classification method	CLUSA
	Right half carcass weight	RHCW
	Backfat thickness at P2 site (last rib 6.5 cm from the midline)	P2BF
	Thickest backfat thickness on the shoulder region	SBF
	Midline backfat thickness immediately after the last rib	LRBF
	Total Boston shoulder weight	TBSW
	Trimmed ham weight	TRIMHW
	Bacon depth	BD
	Loin depth	LD
	Abdominal fat weight	AF
	Loin eye area	LEA
	Total ham weight	THW
	Midline thinnest backfat thickness above the last lumbar vertebrae	LBF
	Midline backfat thickness between last and penultimate lumbar vertebrae	PBF
	Rib weight	RW
	Rimmed Boston shoulder weight	TRIMBSW
	Total picnic shoulder weight	TPSW
	Trimmed picnic shoulder weight	TRIMPSW
	Total loin weight	TLW
	Boneless loin weight	LW
Bacon weight	BCW	
Jowl weight	JW	
Sirloin weight	SLW	
Meat quality	pH 45 minutes after slaughter	pH45
	pH 24 hours after slaughter	pH24
	Lightness	L
	Yellowness	B
	Redness	A
	Saturation	C
	Intramuscular fat	IMF
	Drip loss	DL
	Cooking loss	CL
	Shear force	SF
	Total loss	TL
Hue angle	H	

Table S2. References used in the meta-analysis with respective QTL information given by chromosome, position, estimated effects (β) and standard errors (SE).

Reference	Chromosome	Position	RG	SE
Ma et al., 2013	X	46124768	-0.332	0.06903
Ma et al., 2013	7	104352654	0.296	0.07258
Ma et al., 2013	1	205120122	-0.322	0.07181
Ma et al., 2013	X	103627248	-0.232	0.05445
Ma et al., 2013	8	134540073	0.346	0.08373
Rohrer et al., 2005	1	6*	0.41	0.09
Ma et al., 2009	1	38*	-0.52	0.14
Ma et al., 2009	4	66*	0.47	0.13
Ma et al., 2009	17	0*	-0.45	0.13
Ma et al., 2009	1	146*	0.65	0.140
Ma et al., 2009	17	63*	-0.750	0.150
Ma et al., 2009	X	56*	0.94	0.180
Nonneman et al., 2013	4	71524893	-0.2347	0.05862
Nonneman et al., 2013	4	68200145	-0.2339	0.05858
Nonneman et al., 2013	4	86747423	0.23753	0.057
Nonneman et al., 2013	4	91648161	0.23585	0.05915
Nonneman et al., 2013	4	105800661	-0.2508	0.05799
Nonneman et al., 2013	4	106399494	-0.2411	0.06115
Nonneman et al., 2013	4	106628995	-0.2468	0.06111
Nonneman et al., 2013	4	106788826	-0.2763	0.06171
Nonneman et al., 2013	4	106858461	-0.2408	0.0613
Nonneman et al., 2013	4	104986280	-0.254	0.0631
Nonneman et al., 2013	4	110832479	-0.251	0.06282
Nonneman et al., 2013	7	11485232	0.332	0.07369
Nonneman et al., 2013	7	51608179	-0.246	0.06192
Nonneman et al., 2013	7	51628878	-0.2437	0.06202
Nonneman et al., 2013	8	76669178	0.35577	0.08757
Sato et al., 2003	7	113.3*	0.95	0.070
Duthie et al., 2008	8	48.7*	0.129	0.046
Strucken et al., 2014	8	120311332	0.02	0.00487

^APositions marked with * indicates centimorgans, while the other are presented in bp.