

Supporting Information

Table S1 Summary of significant core regions in the Duroc population

Chr	Position(Mb)	Genes(551)	Haplotype frequency	$-\log_{10}(\text{REHH p-value})$	QTL reported frequency	QTL traits ²
1	4.07-4.96	<i>QKI</i>	0.54	0.001727	3	Loin muscle area
1	10.42-11.15	--	0.59	0.003101	19	Drip loss
1	10.9-11.41	--	0.6	0.00332	22	Drip loss
1	11.27-11.89	<i>NOX3,TFB1M,CLDN20,TIAM</i> 2	0.55	0.003315	29	Drip loss
1	11.46-12.01	<i>NOX3,TFB1M,CLDN20,TIAM</i> 2	0.51	0.000421	22	Drip loss
1	41.44-42.65	--	0.44	0.001804	11	Drip loss
1	303.72-304.39	--	0.62	0.00962	12	Drip loss
1	304.64-305.21	--	0.61	0.000732	6	Drip loss
2	9.33-9.85	<i>ASRGL1, PHEROC, SCGB1D1, INCENP, FTH1, BEST1, RAB31L1, FADS3, FADS2, FADS1, FEN1, TMEM258, MYRF, DAGLA, PHEROC, SCGB1D1, INCENP, FTH1, BEST1, RAB31L1, FADS3, FADS2, FADS1, FEN1, TMEM258, MYRF, DAGLA, SYT7</i>	0.62	0.003972	12	Average backfat thickness
2	9.36-9.98	<i>FTH1, BEST1, RAB31L1, FADS3, FADS2, FADS1, FEN1, TMEM258, MYRF, DAGLA, SYT7, FADS1, FEN1, TMEM258, MYRF, DAGLA, SYT7, LRRC10B, PP1R32, SDHAF2, CPSF7, TME</i>	0.57	0.001958	12	Average backfat thickness
2	9.67-10.24	<i>M216, TMEM138, TKFC, DDB1, VWCE</i>	0.6	0.001839	12	Average backfat thickness
2	19.96-20.51	--	0.73	0.000218	7	Drip loss
2	27.16-27.72	<i>FBXO3, CD59, C2H11orf91, KIAA1549L, HIPK3</i>	0.58	0.001072	7	<i>Actinobacillus pleuropneumoniae</i> susceptibility
2	27.27-27.83	<i>KIAA1549L, HIPK3, CSTF3</i>	0.57	0.004465	7	<i>Actinobacillus pleuropneumoniae</i> susceptibility

2	27.56-28.2	<i>HIPK3,CSTF3,TCP11L1,DEPDC7,QSER1,PRRG4,CCDC73</i>	0.58	0.001446	7	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	27.76-28.32	<i>CSTF3,TCP11L1,DEPDC7,QSER1,PRRG4,CCDC73,EIF3M</i>	0.59	0.008588	7	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	27.86-28.43	<i>TCP11L1,DEPDC7,QSER1,PRRG4,CCDC73,EIF3M,WT1</i>	0.59	0.008877	7	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	28.55-29.14	<i>RCN1,PAX6,ELP4</i>	0.5	0.001365	7	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	28.68-29.26	<i>RCN1,PAX6,ELP4,IMMP1L</i>	0.48	0.007997	7	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	129.99-130.64	<i>C2H5orf63,MEGF10,PRRC1,CTXN3</i>	0.5	0.009466	9	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	130.19-130.79	<i>MEGF10,PRRC1,CTXN3</i>	0.52	0.001191	9	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	130.7-131.25	<i>SLC12A2,FBN2</i>	0.59	0.008492	9	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	136.55-137.08	<i>CDKL3,UBE2B,CDKN2AIPNL,JADE2,SAR1B,SEC24A,CAMLG,DDX46,C2H5orf24,TXNDC15</i>	0.51	0.001853	9	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	138.58-139.12	<i>SPOCK1</i>	0.63	0.006723	10	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	138.64-139.21	<i>SPOCK1</i>	0.59	0.000353	10	<i>Actinobacillus pleuropneumoniae susceptibility</i>
2	143.9-144.51	<i>FGF1,ARHGAP26</i>	0.65	0.000016	10	<i>Actinobacillus pleuropneumoniae</i>

						susceptibility <i>Actinobacillus</i>
2	144.1-144.66	<i>FGF1,ARHGAP26</i>	0.65	0.000071	10	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
2	144.24-145	<i>ARHGAP26,NR3C1</i>	0.57	0.002168	10	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
2	144.56-145.15	<i>ARHGAP26,NR3C1</i>	0.57	0.000307	10	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
2	145.06-145.82	<i>YIPF5,KCTD16</i>	0.49	0.001195	10	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
2	145.49-146.06	<i>YIPF5,KCTD16</i>	0.5	0.000203	10	<i>pleuropneumoniae</i> susceptibility
3	14.01-14.58	<i>AUTS2</i>	0.51	0.002099	2	Carcass weight (hot)
3	133.61-134.4	--	0.5	0.002416	2	Loin muscle area
4	84.23-85.4	<i>FAM78B,UCK2,TMCO1,ALD H9A1,MGST3,LRRC52,RXRG</i>	0.45	0.002808	21	average daily gain
4	119.51-120.02	<i>DPYD</i>	0.62	0.009653	10	average daily gain
5	11.75-12.35	<i>RBFOX2,SYN3,TIMP3</i>	0.54	0.006308	2	backfat above muscle dorsi
5	17.34-17.88	<i>ACVR1B,GRASP,ATG101,KR T80,KRT84,KRT82,KRT6A,KR T5</i>	0.55	0.001908	2	backfat above muscle dorsi
5	17.62-18.28	<i>KRT84,KRT82,KRT6A,KRT5, KRT74,KRT2,KRT1,KRT77,K RT3,KRT4,KRT79,KRT78,KRT 8,KRT18</i>	0.56	0.003015	2	backfat above muscle dorsi
5	18.67-19.46	<i>PCBP2,MAP3K12,TARBP2,N PFF,ATF7,ATP5G2,CALCOC O1,HOXC13,HOXC12,HOXC 11,HOXC10,HOXC9,HOXC8, HOXC6,HOXC5,HOXC4,SMU</i>	0.54	0.000813	2	backfat above muscle dorsi

<i>G1,CBX5</i>						
5	88.07-88.63	<i>VEZT,FGD6,NR2C1,NDUFA1 2,TMCC3</i>	0.97	0.00816	3	backfat at mid-back
5	90.26-90.9	<i>PLEKHG7,BTG1</i>	0.68	0.00068	3	backfat at last rib
5	90.78-91.37	<i>BTG1</i>	0.77	0.007984	4	backfat at last rib
5	91.3-91.83	<i>DCN,LUM,KERA</i>	0.62	0.00089	5	backfat at last rib
6	5.1-5.61	<i>CDH13</i>	0.73	0.000414	4	CIE-a*
6	5.28-5.84	<i>CDH13</i>	0.62	0.009761	4	CIE-a*
<i>CMIP,GAN,BCO1,PKD1L2,G</i>						
6	6.81-7.43	<i>CSH,C6H16orf46,ATMIN,CE NPN,CMC2,CDYL2</i>	0.54	0.000822	4	CIE-a*
<i>CENPN,CMC2,CDYL2,DYNL</i>						
6	7.23-7.77	<i>RB2</i>	0.6	0.002574	4	CIE-a*
6	8.46-8.98	<i>MAF,WWOX</i>	0.6	0.002117	4	CIE-a*
6	9.22-9.8	<i>WWOX</i>	0.77	0.00294	5	CIE-a*
<i>TERF2IP,KARS,ADAT1,GABA</i>						
6	11.64-12.34	<i>RAPL2,TMEM231,TMEM170 A,CFDP1</i>	0.37	0.000193	5	CIE-a*
<i>ZNF23,ZNF19,CHST4,TAT,M</i>						
6	14.46-15.05	<i>ARVELD3,PHLPP2,AP1G1,A TXN1L,ZNF821,IST1,DHODH ,HP,DHX38,PMFBP1</i>	0.88	0.008321	5	CIE-a*
6	23.3-23.97	--	0.61	0.006853	5	CIE-a*
6	24.2-24.77	--	0.71	0.004922	5	CIE-a*
6	24.3-24.87	--	0.51	0.003558	5	CIE-a*
6	24.59-25.18	--	0.46	0.009022	5	CIE-a*
6	25.8-26.39	<i>CDH11</i>	0.56	0.001401	5	CIE-a*
<i>CMTM4,DYNC1LI2,TERB1,N</i>						
<i>AE1,CA7,PDP2,CDH16,RRA</i>						
<i>D,FAM96B,CES3,CBFB,C6H</i>						
6	27.37-27.9	<i>16orf70,B3GNT9,TRADD,FBX L8,KIAA0895L,EXOC3L1,E2F 4,ELMO3,LRRC29,TMEM208, FHOD1,SLC9A5</i>	0.66	0.000282	5	CIE-a*
<i>TERB1,NAE1,CA7,PDP2,CD</i>						
6	27.45-28.04	<i>H16,RRAD,FAM96B,CES3,CB</i>	0.7	0.002287	5	CIE-a*

		<i>FB,C6H16orf70,B3GNT9,TRA</i>				
		<i>DD,FBXL8,KIAA0895L,EXOC</i>				
		<i>3L1,E2F4,ELMO3,LRRC29,T</i>				
		<i>MEM208,FHOD1,SLC9A5,PL</i>				
		<i>EKHG4,KCTD19,LRRC36</i>				
		<i>CBFB,C6H16orf70,B3GNT9,T</i>				
		<i>RADD,FBXL8,KIAA0895L,EX</i>				
		<i>OC3L1,E2F4,ELMO3,LRRC2</i>				
6	27.65-28.24	<i>9,TMEM208,FHOD1,SLC9A5,</i>	0.6	0.008963	5	CIE-a*
		<i>PLEKHG4,KCTD19,LRRC36,</i>				
		<i>TPPP3,ZDHHC1,HSD11B2,A</i>				
		<i>TP6V0D1,AGRP,RIPOR1,CT</i>				
		<i>CF</i>				
6	28.97-29.55	<i>OGFOD1,NUDT21,AMFR,GN</i>	0.51	0.000577	5	CIE-a*
		<i>AO1</i>				
6	34.56-35.18	<i>PAPD5,HEATR3,CNEP1R1,Z</i>	0.59	0.004914	7	Average backfat
		<i>NF423</i>				thickness
6	138.21-138.9	<i>TYW3,CRYZ,ERICH3</i>	0.74	0.003505	9	Backfat at tenth rib
6	139.16-139.73	--	0.83	0.005458	9	Backfat at tenth rib
6	142.39-142.92	<i>CTH,ANKRD13C,SRSF11,LR</i>	0.65	0.005955	9	Backfat at tenth rib
		<i>RC40,LRRC7</i>				
6	146.07-146.62	<i>PDE4B</i>	0.5	0.007445	9	Backfat at tenth rib
7	98.38-98.96	<i>FOS,JDP2,BATF,FLVCR2,C7</i>	0.96	0.002985	6	Adipocyte diameter
		<i>H14orf1,TLL5</i>				
7	111.08-111.79	<i>FOXN3,EFCAB11,TDP1</i>	0.5	0.0024	6	average daily gain
7	112.35-113	<i>TTC7B,RPS6KA5,C7H14orf15</i>	0.78	0.000383	6	average daily gain
		<i>9,GPR68,CCDC88C</i>				
7	112.79-113.35	<i>C7H14orf159,GPR68,CCDC8</i>	0.74	0.002382	5	Average backfat
		<i>8C,PPP4R3A,CATSPERB,TC2</i>				thickness
		<i>N</i>				
7	113.71-114.26	<i>SLC24A4,RIN3,LGMN,GOLG</i>	0.96	0.002014	5	Average backfat
		<i>A5</i>				thickness
7	115.77-116.32	<i>SERPINA5,SERPINA3-2,GSC</i>	0.69	0.000295	5	average daily gain
7	116.04-116.67	<i>GSC,DICER1,CLMN</i>	0.67	0.009743	5	average daily gain
7	116.72-117.27	<i>SYNE3,GLRX5,TCL1B,TCL1A</i>	0.74	0.007732	5	average daily gain
		<i>,C7H14orf132</i>				

9	16.82-17.43	<i>FAM181B,PRCP,DDIAS,RAB30,PCF11,ANKRD42,CCDC9</i>	0.28	0.003532	2	average daily gain
		<i>OB</i>				
9	27.25-27.94	<i>SESN3,FAM76B,CEP57,MTMR2</i>	0.42	0.008335	2	backfat at mid-back
		<i>NFASC,CNTN2,TMEM81,RBBP5,DSTYK,TMCC2,NUAK2,KLHDC8A,LEMD1</i>				
9	65.51-66.16		0.4	0.006534	3	Shoulder weight
9	138.24-138.78	--	0.79	0.001192	2	Empty body protein content
9	139.11-139.65	<i>SEC61G,EGFR</i>	0.86	0.003999	2	Empty body protein content
9	144.13-144.66	--	0.74	0.000051	2	Mean corpuscular hemoglobin concentration
9	144.21-144.76	--	0.7	0.000041	2	Mean corpuscular hemoglobin concentration
9	144.56-145.25	--	0.75	0.001553	2	Mean corpuscular hemoglobin concentration
10	21.04-21.58	<i>NEK7,ATP6V1G3,PTPRC</i>	0.53	0.005409	4	average daily gain
10	24.86-25.42	<i>RABIF,KLHL12,ADIPOR1,CYB5R1,CTSV,ZNF782,ZNF510</i>	0.54	0.006138	4	average daily gain
10	25.04-25.63	<i>CTSV,ZNF782,ZNF510,AAED1,CDC14B,HABP4</i>	0.54	0.003324	4	average daily gain
10	25.85-26.42	<i>HSD17B3,ERCC6L2</i>	0.71	0.004045	4	average daily gain
10	53.15-53.84	<i>MLLT10,SKIDA1,NEBL,C10H10orf113</i>	0.86	0.004833	3	Teat number
10	54.26-54.86	<i>PLXDC2,MALRD1</i>	0.49	0.005204	3	Teat number
10	55.1-55.9	<i>MALRD1,ARL5B,CCDC7</i>	0.54	0.000005	3	Teat number
10	56.09-56.62	<i>ITGB1,NRP1</i>	0.9	0.000501	3	Teat number
10	56.25-56.8	<i>NRP1</i>	0.85	0.002013	3	Teat number
10	56.62-57.29	<i>PARD3</i>	0.81	0.000068	3	Teat number
10	57.42-57.97	<i>PARD3,CUL2,CREM,CCNY</i>	0.58	0.007069	3	Teat number
10	61.07-61.67	--	0.87	0.003092	4	Teat number

10	61.2-61.74	--	0.79	0.001078	4	Teat number
10	61.86-62.41	--	0.61	0.000073	2	Teat number
10	62.49-63.23	--	0.73	0.000405	2	Teat number
10	62.78-63.37	<i>GATA3</i>	0.65	0	2	Teat number
10	63.02-63.65	<i>GATA3,TAF3,ATP5C1,KIN,IT IH2 IL2RA,IL15RA,FBXO18,ANK RD16,GDI2,FAM208B,ASB13, CALML5,NET1,TUBAL3,UCN 3 NET1,TUBAL3,UCN3,AKR1C L1,AKR1C1,AKR1E2</i>	0.66	0.000087	2	Teat number
10	64.98-65.51		0.72	0.000004	1	Aspartate amino transferase activity
10	65.42-65.99		0.89	0.000132	1	Aspartate amino transferase activity
10	65.85-66.44	--	0.6	0	1	Age at puberty
10	66.32-66.86	<i>KLF6</i>	0.84	0	1	Age at puberty
10	70.51-71.05	--	0.66	0.006582	3	Age at puberty
11	8.81-9.41	<i>BRCA2,N4BP2L1,N4BP2L2,P DS5B</i>	0.77	0.002606	3	Percentage type IIb fibers
11	18.4-18.94	<i>CDADC1,MLNR,FNDC3A</i>	0.55	0.007919	4	Loin muscle depth
11	19.21-19.8	<i>RB1,LPAR6,ITM2B,MED4,NU DT15,SUCLA2 TANC2,MARCH10,MRC2,TL K2</i>	0.58	0.003554	3	Loin muscle area
12	15.67-16.22		0.59	0.000547	4	backfat at last rib
12	16.51-17.05	<i>ITGB3,MYL4,CDC27,KANSL1</i>	0.83	0.000039	4	backfat at last rib
12	16.59-17.31	<i>ITGB3,MYL4,CDC27,KANSL1 ,MAPT,SPPL2C,CRHRI</i>	0.8	0.000261	4	backfat at last rib
12	43.14-43.7	<i>RAB11FIP4,NF1,EVI2A,EVI2 B,OMG KSRI,LGALS9,NOS2,LYRM9, NLK,TMEM97,IFT20,TNFAIP 1,POLDIP2,TMEM199,SEBO X,VTN,SARM1</i>	0.54	0.002427	3	<i>Actinobacillus pleuropneumoniae</i> susceptibility
12	44.07-44.66		0.59	0.000522	3	<i>Actinobacillus pleuropneumoniae</i> susceptibility
12	48.84-49.45	<i>RAP1GAP2</i>	0.75	0.000005	3	<i>Actinobacillus pleuropneumoniae</i> susceptibility
12	53.71-54.25	<i>MYH10,CCDC42,MFSD6L,PI</i>	0.92	0.005095	3	<i>Actinobacillus</i>

		<i>K3R6,PIK3R5,NTN1</i>				<i>pleuropneumoniae</i>
						susceptibility
12	54.4-54.99	<i>CFAP52,USP43,DHRS7C,GS GIL2,GLP2R,RCVRN,GAS7</i>	0.52	0.001157	3	Loin muscle area
12	58.35-58.93	<i>PMP22,TEKT3,CDRT4,TVP23 B,CDRT1,TRIM16</i>	0.64	0.000003	3	Loin muscle area
12	58.69-59.2	<i>PMP22,TEKT3,CDRT4,TVP23 B,CDRT1,TRIM16,ZNF286A,Z NF624,ZNF287,LRRC75A,TR PV2,UBB,CENPV</i>	0.86	0.001202	3	Loin muscle area
12	58.76-59.39	<i>TEKT3,CDRT4,TVP23B,CDR T1,TRIM16,ZNF286A,ZNF624 ,ZNF287,LRRC75A,TRPV2,U BB,CENPV,PIGL,NCOR1</i>	0.86	0.001512	4	Marbling
13	14.96-15.5	<i>RBMS3</i>	0.65	0.008825	2	Average backfat thickness
13	25.83-26.47	<i>TRAK1,CCK,LYZL4,VIPR1,SE C22C,SS18L2,NKTR,ZBTB47, KLHL40,HHATL,CCDC13,HI GD1A,ACKR2,CYP8B1,ZNF6 62,FAM198A</i>	0.55	0.000744	5	average daily gain
14	0.72-1.24	<i>SHC3,CKS2,SECISBP2,SEMA 4D,GADD45G</i>	0.64	0.001174	--	--
14	15.86-16.37	<i>CEP44,FBXO8</i>	0.6	0.007443	4	Fat androstenone level
14	139.04-139.59	<i>GLRX3</i>	0.54	0.003509	3	Loin muscle area
15	16.7-17.55	<i>ZRANB3,RAB3GAP1,MAP3K 19,CCNT2,ACMSD,TMEM163 DIS3L2,ECEL1,PRSS56,CHR</i>	0.35	0.002658	3	Shear force
15	132.78-133.32	<i>ND,CHRNA,EIF4E2,EFHD1, GIGYF2,KCNJ13</i>	0.57	0.004048	5	pH 24 hr post-mortem (loin)
15	135.79-136.72	<i>AGAP1,GBX2,ASB18,IQCA1, ACKR3</i>	0.37	0.007372	6	pH 24 hr post-mortem (loin)
16	9.91-10.51	<i>CDH12</i>	0.94	0.001367	3	Conductivity 24 hours postmortem (ham)

16	16.25-16.79	--	0.76	0.003514	3	Conductivity 24 hours postmortem (ham)
16	18.58-19.09	<i>ZFR,SUB1,NPR3</i>	0.49	0.001006	3	Conductivity 24 hours postmortem (ham)
16	84.06-84.78	--	0.53	0.002106	1	Loin fat percentage
17	7.39-7.92	<i>ZFP42</i>	0.68	0.005571	3	Eosinophil number
17	33.87-34.48	<i>NSFL1C,FKBP1A,SDCBP2,S NPH,RAD21L1,C17H20orf20 2,TMEM74B,PSMF1,RSPO4, ANGPT4,FAM110A,SLC52A3</i>	0.55	0.005808	2	<i>Actinobacillus pleuropneumoniae</i> susceptibility
17	45.81-46.35	<i>PTPRT,SRSF6,L3MBTL1,SGK 2,IFT52,MYBL2,GTSF1L</i>	0.59	0.002212	2	<i>Actinobacillus pleuropneumoniae</i> susceptibility
17	46.71-47.34	<i>GDAP1L1,FITM2,R3HDML,H NF4A,TTPAL,SERINC3,PKIG, ADA,WISP2,KCNK15,RIMS4, YWHAB,PABPC1L</i>	0.72	0.004939	2	<i>Actinobacillus pleuropneumoniae</i> susceptibility
17	46.88-47.42	<i>TTPAL,SERINC3,PKIG,ADA, WISP2,KCNK15,RIMS4,YWH AB,PABPC1L,TOMM34,STK4 PKIG,ADA,WISP2,KCNK15,R IMS4,YWHAB,PABPC1L,TOM</i>	0.72	0.00578	2	<i>Actinobacillus pleuropneumoniae</i> susceptibility
17	46.94-47.69	<i>M34,STK4,KCNS1,PI3,SPAI-2 ,SLPI,MATN4,RBPJL,SDC4,S YSI</i>	0.6	0.000548	2	<i>Actinobacillus pleuropneumoniae</i> susceptibility
17	49.2-49.74	<i>EYA2,ZMYND8,NCOA3,SULF 2</i>	0.59	0.002206	2	<i>Actinobacillus pleuropneumoniae</i> susceptibility
17	54.94-55.52	<i>BCAS1,CYP24A1,PFDN4,DO K5</i>	0.5	0.003457	4	Meat color-L
17	59.94-60.69	<i>SYCP2,PPP1R3D,FAM217B</i>	0.68	0.000081	4	Meat color-L
17	60.27-60.87	--	0.76	0.000003	4	Meat color-L
17	64.43-64.99	--	0.7	0.009359	2	<i>Actinobacillus pleuropneumoniae</i>

						susceptibility <i>Actinobacillus</i>
18	2.8-3.33	<i>INSIG1,HTR5A,PAXIP1,DPP6</i>	0.88	0.00216	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	5.45-6.02	<i>PRKAG2,RHEB,CRYGN,WDR86,NUB1,SMARCD3,ABCF2</i>	0.58	0.002624	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	6.67-7.3	<i>TAS2R41,TAS2R60,EPHA1,ZYX,FAM131B,CLCN1,CASP2,TEMEM139,GSTK1,TAS2R40,TAS2R39,PIP,KEL,C18H7orf34,TRPV5</i>	0.53	0.00074	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	6.87-7.44	<i>FAM131B,CLCN1,CASP2,TEMEM139,GSTK1,TAS2R40,TAS2R39,PIP,KEL,C18H7orf34,TRPV5,TRPV6,EPHB6</i>	0.55	0.001978	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	7.31-8.11	<i>TRPV5,TRPV6,EPHB6,PRSS2,PRSS58,MGAM2,MGAM,TAS2R38,CLEC5A,PRSS37</i>	0.64	0.004686	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	22.09-22.86	--	0.54	0.008133	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	23.02-23.6	<i>GPR37,TMEM229A,SPAM1</i>	0.54	0.00224	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	23.28-23.93	<i>TMEM229A,SPAM1,HYAL4,WASL,LMOD2,ASB15,NDUFA5,IQUB</i>	0.65	0.007928	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	45.12-45.66	<i>EVX1,HOXA13,HOXA11,HOXA10,HOXA9,HOXA7,HOXA6,HOXA5,HOXA4,HOXA3,HOXA2,HOXA1,SKAP2</i>	0.55	0.00203	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	45.45-45.95	<i>HOXA3,HOXA2,HOXA1,SKAP2,C18H7orf71</i>	0.76	0.000004	3	<i>pleuropneumoniae</i> susceptibility <i>Actinobacillus</i>
18	45.72-46.35	<i>SKAP2,C18H7orf71,SNX10,C</i>	0.66	0.006267	3	<i>Actinobacillus</i>

BX3,HNRNPA2B1,NFE2L3

pleuropneumoniae

susceptibility

Actinobacillus

18 46.12-46.65 *CBX3,HNRNPA2B1,NFE2L3* 0.65 0.000043 3

pleuropneumoniae

susceptibility

Actinobacillus

18 46.42-46.98 -- 0.6 0.000038 3

pleuropneumoniae

susceptibility

Actinobacillus

18 53.41-54.03 *SUGCT* 0.51 0.007472 3

pleuropneumoniae

susceptibility

Table S2 Selected and significant different regions in the Duroc

Chr	Position(Mbp)	QTL traits ²
1	4.07-4.96	Loin muscle area (3), Body weight (birth) (1), Diameter of angular fibers (1), Glucose level (1), Loin fat percentage (1), Marbling (1), Muscle moisture percentage (1), Teat number (1)
1	10.42-11.15	Drip loss (19), Loin muscle area (3), average daily gain (2), Body weight (birth) (2), Palmitoleic acid content (2), Shoulder subcutaneous fat thickness (2), Stearic acid content (2), Average backfat thickness (1), backfat at last rib (1), Biceps brachii weight (1), Diameter of angular fibers (1), Glucose level (1), Loin fat percentage (1), Marbling (1), Melting point (1), Muscle moisture percentage (1), Musculus gluteus weight (1), Salmonella count in liver (1), Teat number (1), Water holding capacity (1)
1	10.9-11.41	Drip loss (22), Loin muscle area (3), average daily gain (2), Palmitoleic acid content (2), Salmonella count in liver (2), Shoulder subcutaneous fat thickness (2), Stearic acid content (2), Average backfat thickness (1), backfat at last rib (1), Body weight (birth) (1), Diameter of angular fibers (1), Glucose level (1), HDL cholesterol (1), Loin fat percentage (1), Marbling (1), Melting point (1), Muscle moisture percentage (1), Salmonella count in liver and spleen (1), Teat number (1), Water holding capacity (1)
1	11.27-11.89	Drip loss (29), Loin muscle area (3), average daily gain (2), HDL cholesterol (2), Palmitoleic acid content (2), Salmonella count in liver (2), Shoulder subcutaneous fat thickness (2), Stearic acid content (2), Average backfat thickness (1), backfat at last rib (1), Body weight (birth) (1), Diameter of angular fibers (1), Glucose level (1), Loin fat percentage (1), Marbling (1), Melting point (1), Muscle moisture percentage (1), Salmonella count in liver and spleen (1), Teat number (1), Water holding capacity (1)
1	11.46-12.01	Drip loss (22), Loin muscle area (3), average daily gain (2), HDL cholesterol (2), Palmitoleic acid content (2), Shoulder subcutaneous fat thickness (2), Stearic acid content (2), Average backfat thickness (1), backfat at last rib (1), Body weight (birth)

		(1), Diameter of angular fibers (1), Glucose level (1), Loin fat percentage (1), Marbling (1), Melting point (1), Muscle moisture percentage (1), Salmonella count in liver (1), Teat number (1), Water holding capacity (1)
		Drip loss (11), average daily gain (4), backfat at last rib (3), Carcass weight (cold) (3), Loin muscle area (3), Shoulder subcutaneous fat thickness (3), Average backfat thickness (2), Backfat at tenth rib (2), Carcass weight (hot) (2), Estimated carcass lean content (2), Ham weight (2), Marbling (2), Melanoma susceptibility (2), backfat above muscle dorsi (1), Belly meat content (1), Body weight (20 weeks) (1), Body weight (birth) (1), Body weight (slaughter) (1), Body weight (weaning) (1), Carcass length (1), CD2-positive leukocyte number (1), CD4-positive leukocyte number (1), CIE-a* (1), Dressing percentage (1), External fat on ham (1), Fat to meat ratio (1), Front feet conformation (1), HDL cholesterol (1), Head weight (1), Leaf fat weight (1), Loin and neck meat weight (1), Loin fat percentage (1), Loin weight (1), Muscle fat content (1), Muscle moisture percentage (1), muscle protein percentage (1), Percentage type IIa fibers (1), PRRSV antibody titer (1), Shoulder external fat weight (1), Shoulder meat weight (1), Side fat thickness (1), Subcutaneous fat area (1), White blood cell counts (1)
1	41.44-42.65	Drip loss (12), Average backfat thickness (2), average daily gain (2), Backfat weight (2), Ham weight (2), Loin weight (2), Trimmed wholesale product / live weight (2), Backfat at last lumbar (1), backfat at last rib (1), Backfat at tenth rib (1), body weight (10 weeks) (1), body weight (13 weeks) (1), body weight (17 weeks) (1), Cannon bone circumference (1), Fat area percentage in carcass (1), Leaf fat weight (1), Lean meat percentage (1), Loin and ham percentage in carcass (1), Loin muscle area (1), PH for Biceps femoris (1), PH for Longissimus dorsi (1), pH for Semispinalis Dorsi (1), Trimmed wholesale product / carcass weight (1), Umbilical hernia (1)
1	303.72-304.39	Drip loss (6), Average backfat thickness (2), average daily gain (2), Backfat weight (2), Ham weight (2), Loin weight (2), Trimmed wholesale product / live weight (2), Backfat at last
1	304.64-305.21	

lumbar (1), backfat at last rib (1), body weight (10 weeks) (1), body weight (13 weeks) (1), body weight (17 weeks) (1), Cannon bone circumference (1), Fat area percentage in carcass (1), Leaf fat weight (1), Lean meat percentage (1), Loin and ham percentage in carcass (1), Loin muscle area (1), PH for Biceps femoris (1), PH for Longissimus dorsi (1), pH for Semispinalis Dorsi (1), Trimmed wholesale product / carcass weight (1)

Average backfat thickness (12), backfat at last rib (5), Loin and neck meat weight (4), Loin muscle area (4), C3c concentration (3), Drip loss (3), Estimated carcass lean content (3), Ham weight (3),

Hemolytic complement activity (alternative pathway) (3),

Abdominal fat weight (2), *Actinobacillus pleuropneumoniae* susceptibility (2), average daily gain (2), Backfat at first rib (2), backfat at mid-back (2), Belly meat content (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Loin weight (2), Melanoma susceptibility (2), Shoulder subcutaneous fat thickness (2), Subcutaneous fat area (2), Adipocyte diameter (1),

Backfat at last lumbar (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), Backfat percentage (1), Backfat thickness between 3rd and 4th rib (1), Backfat weight (1),

Body weight (3 weeks) (1), Body weight (birth) (1), Body weight (end of test) (1), Bone mineral content (1), Carcass length (1),

CIE-L* (1), Creatine kinase level (1), CSFV antibody level (1), Cutlet weight (1), External fat on ham (1), Fat-cuts percentage (1),

Fat protein content (1), Feed intake (1), Ham percentage (1), Interferon-gamma level (1), Interleukin 10 level (1), Lean meat percentage (1), Loin and ham percentage in carcass (1), Loin percentage (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), muscle protein percentage (1), NADP-malate dehydrogenase activity (1), Neck fat weight (1), O₂ partial pressure (1), Osteochondrosis score (1), Oxygen saturation (1),

Percentage of backfat and leaf fat in carcass (1), PH for Longissimus dorsi (1), Segmented neutrophil number (1), Shear firmness (1), Shear force (1), Shoulder meat weight (1), Shoulder weight (1), Side fat thickness (1), tenderness score (1), Toll-like receptor 9 level (1)

Average backfat thickness (12), backfat at last rib (5), Loin and neck meat weight (4), Loin muscle area (4), C3c concentration (3), Drip loss (3), Estimated carcass lean content (3), Ham weight (3), Hemolytic complement activity (alternative pathway) (3), Abdominal fat weight (2), *Actinobacillus pleuropneumoniae* susceptibility (2), average daily gain (2), Backfat at first rib (2), backfat at mid-back (2), Belly meat content (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Loin weight (2), Melanoma susceptibility (2), Shoulder subcutaneous fat thickness (2), Subcutaneous fat area (2), Adipocyte diameter (1), Backfat at last lumbar (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), Backfat percentage (1), Backfat thickness between 3rd and 4th rib (1), Backfat weight (1), Body weight (3 weeks) (1), Body weight (birth) (1), Body weight (end of test) (1), Bone mineral content (1), Carcass length (1), CIE-L* (1), Creatine kinase level (1), CSFV antibody level (1), Cutlet weight (1), External fat on ham (1), Fat-cuts percentage (1), Fat protein content (1), Feed intake (1), Ham percentage (1), Interferon-gamma level (1), Interleukin 10 level (1), Lean meat percentage (1), Loin and ham percentage in carcass (1), Loin percentage (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), mummified pigs (1), muscle protein percentage (1), NADP-malate dehydrogenase activity (1), Neck fat weight (1), O₂ partial pressure (1), Osteochondrosis score (1), Oxygen saturation (1), Percentage of backfat and leaf fat in carcass (1), PH for Longissimus dorsi (1), Segmented neutrophil number (1), Shear firmness (1), Shear force (1), Shoulder meat weight (1), Shoulder weight (1), Side fat thickness (1), tenderness score (1), Toll-like receptor 9 level (1)

2 9.36-9.98

Average backfat thickness (12), backfat at last rib (5), Loin and neck meat weight (4), Loin muscle area (4), C3c concentration (3), Drip loss (3), Estimated carcass lean content (3), Ham weight (3), Hemolytic complement activity (alternative pathway) (3), Abdominal fat weight (2), *Actinobacillus pleuropneumoniae* susceptibility (2), average daily gain (2), Backfat at first rib (2), backfat at mid-back (2), Belly meat content (2), Carcass weight

2 9.67-10.24

(hot) (2), Dressing percentage (2), Fat to meat ratio (2), Loin weight (2), Melanoma susceptibility (2), Shoulder subcutaneous fat thickness (2), Subcutaneous fat area (2), Adipocyte diameter (1), Backfat at last lumbar (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), Backfat percentage (1), Backfat thickness between 3rd and 4th rib (1), Backfat weight (1), Body weight (3 weeks) (1), Body weight (birth) (1), Body weight (end of test) (1), Carcass length (1), CIE-L* (1), Conductivity 45 minutes post-mortem (1), Creatine kinase level (1), CSFV antibody level (1), Cutlet weight (1), External fat on ham (1), Fat-cuts percentage (1), Fat protein content (1), Feed intake (1), Ham percentage (1), Interferon-gamma level (1), Interleukin 10 level (1), Lean meat percentage (1), Loin and ham percentage in carcass (1), Loin percentage (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), mummified pigs (1), muscle protein percentage (1), NADP-malate dehydrogenase activity (1), Neck fat weight (1), O₂ partial pressure (1), Oxygen saturation (1), Percentage of backfat and leaf fat in carcass (1), PH for Longissimus dorsi (1), Segmented neutrophil number (1), Shear firmness (1), Shear force (1), Shoulder meat weight (1), Shoulder weight (1), Side fat thickness (1), tenderness score (1), Toll-like receptor 9 level (1)

Drip loss (7), *Actinobacillus pleuropneumoniae* susceptibility (5), Average backfat thickness (5), C3c concentration (3), Shoulder subcutaneous fat thickness (3), Abdominal fat weight (2), Backfat at first rib (2), backfat at last rib (2), backfat at mid-back (2), Ham weight (2), Lean meat percentage (2), Loin muscle area (2), Melanoma susceptibility (2), Off-Flavor Score (2), Alkaline phosphatase activity (1), average daily gain (1), backfat above muscle dorsi (1), Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), Backfat thickness between 3rd and 4th rib (1), Belly meat content (1), Body weight (end of test) (1), Carcass weight (hot) (1), Cholesterol level (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Daily feed intake (1), Estimated carcass lean content (1), Fat to meat ratio (1), Feed intake (1), Firmness (1), Heart weight (1), hematocrit (1), Hemoglobin (1), Interleukin 10

level (1), Lumbar vertebra number (1), muscle protein percentage (1), Mycoplasmal pneumonia susceptibility (1), pH 24 hr post-mortem (loin) (1), Platelet distribution width (1), Plateletcrit (1), Red blood cell count (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Small intestine length (1), Stearic acid content (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Toll-like receptor 9 level (1)

Actinobacillus pleuropneumoniae susceptibility (7), Drip loss (7), Average backfat thickness (6), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Cholesterol level (3), LDL cholesterol (3), Lean meat percentage (3), Loin muscle area (3), Abdominal fat weight (2), average daily gain (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Melanoma susceptibility (2), Off-Flavor Score (2), pH 24 hr post-mortem (loin) (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), backfat above muscle dorsi (1), Backfat at last lumbar (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Estimated carcass lean content (1), Feed intake (1), Fiber type II myosin isoform ratio (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Marbling (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), pH 24 hr post mortem (ham) (1), Semimembranosus angle (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1)

Actinobacillus pleuropneumoniae susceptibility (7), Drip loss (7), Average backfat thickness (6), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Cholesterol level (3), LDL cholesterol (3), Lean meat percentage (3), Loin muscle area (3), Abdominal fat weight (2), average daily gain (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing

2 27.16-27.72

2 27.27-27.83

percentage (2), Fat to meat ratio (2), Melanoma susceptibility (2), Off-Flavor Score (2), pH 24 hr post-mortem (loin) (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), backfat above muscle dorsi (1), Backfat at last lumbar (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Estimated carcass lean content (1), External fat on ham (1), Feed intake (1), Fiber type II myosin isoform ratio (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Marbling (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), pH 24 hr post mortem (ham) (1), Semimembranosus angle (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1) *Actinobacillus pleuropneumoniae* susceptibility (7), Drip loss (7), Average backfat thickness (6), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Cholesterol level (3), LDL cholesterol (3), Loin muscle area (3), Abdominal fat weight (2), average daily gain (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Lean meat percentage (2), Melanoma susceptibility (2), Off-Flavor Score (2), pH 24 hr post-mortem (loin) (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), backfat above muscle dorsi (1), Backfat at last lumbar (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Estimated carcass lean content (1), External fat on ham (1), Fiber type II myosin isoform ratio (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Marbling (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), Semimembranosus angle (1),

Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1)

Actinobacillus pleuropneumoniae susceptibility (7), Drip loss (6), Average backfat thickness (5), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Cholesterol level (3), LDL cholesterol (3), Abdominal fat weight (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Lean meat percentage (2), Loin muscle area (2), Melanoma susceptibility (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), average daily gain (1), backfat above muscle dorsi (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Estimated carcass lean content (1), External fat on ham (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), Semimembranosus angle (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1)

Actinobacillus pleuropneumoniae susceptibility (7), Drip loss (6), Average backfat thickness (5), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Abdominal fat weight (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Lean meat percentage (2), Loin muscle area (2), Melanoma susceptibility (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), average daily gain (1), backfat above muscle dorsi (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), Cholesterol level (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1),

2

27.76-28.32

2

27.86-28.43

		Estimated carcass lean content (1), External fat on ham (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), Semimembranosus angle (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1)
2	28.55-29.14	<i>Actinobacillus pleuropneumoniae</i> susceptibility (7), Drip loss (6), Average backfat thickness (5), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Loin muscle area (3), Abdominal fat weight (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing percentage (2), Fat to meat ratio (2), Lean meat percentage (2), Melanoma susceptibility (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), average daily gain (1), backfat above muscle dorsi (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), Cholesterol level (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Estimated carcass lean content (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), Semimembranosus angle (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1)
2	28.68-29.26	<i>Actinobacillus pleuropneumoniae</i> susceptibility (7), Drip loss (6), Average backfat thickness (5), Fat-cuts percentage (4), backfat at last rib (3), C3c concentration (3), Loin muscle area (3), Abdominal fat weight (2), Backfat at first rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Dressing percentage (2),

		<p>Fat to meat ratio (2), Lean meat percentage (2), Melanoma susceptibility (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), White blood cell counts (2), androstenone laboratory (1), average daily gain (1), backfat above muscle dorsi (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), Cholesterol level (1), CIE-L* (1), Creatine kinase level (1), Cutlet weight (1), Estimated carcass lean content (1), Firmness (1), Ham weight (1), HDL cholesterol (1), Interferon-gamma level (1), Leaf fat weight (1), Lean cuts percentage (1), Linoleic acid content (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), Semimembranosus angle (1), Shear firmness (1), Shear force (1), Shoulder weight (1), Side fat thickness (1), Stearic acid content (1), Stiffness (1), Teat number (1), tenderness score (1), Tetanus antibody titer (1), Vertebra number (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (9), Shear force (5), C3c concentration (4), Ham weight (4), Cooking loss (3), Abdominal fat weight (2), Average backfat thickness (2), average daily gain (2), backfat at last rib (2), backfat at mid-back (2), Carcass weight (hot) (2), Estimated carcass lean content (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), Backfat weight (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), Carcass temperature (45 minutes post-mortem) (1), Cholesterol level (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feed intake (1), Ham fat thickness (1), Intramuscular fat content (1), Juiciness score (1), Leaf fat weight (1), Loin muscle area (1), Lumbar vertebra number (1), Melanoma susceptibility (1), Mycoplasma hyopneumoniae antibody titer (1), pH 24 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Water holding capacity (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (9), Shear force (5), C3c concentration (4), Ham weight (4), Cooking loss (3), Abdominal fat weight (2), Average backfat thickness (2), average daily gain (2), backfat at last rib (2), backfat at mid-back (2),</p>
2	129.99-130.64	
2	130.19-130.79	

		<p>Carcass weight (hot) (2), Estimated carcass lean content (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), Backfat weight (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), Carcass temperature (45 minutes post-mortem) (1), Cholesterol level (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feed intake (1), Ham fat thickness (1), Intramuscular fat content (1), Juiciness score (1), Leaf fat weight (1), Loin muscle area (1), Lumbar vertebra number (1), Melanoma susceptibility (1), Mycoplasma hyopneumoniae antibody titer (1), pH 24 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Water holding capacity (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (9), Shear force (6), tenderness score (5), C3c concentration (4), Ham weight (4), Cooking loss (3), Abdominal fat weight (2), Average backfat thickness (2), average daily gain (2), backfat at mid-back (2), Carcass weight (hot) (2), Estimated carcass lean content (2), Off-Flavor Score (2), Shoulder subcutaneous fat thickness (2), Average instron (star probe) force (1), backfat at last rib (1), Backfat weight (1), Belly meat content (1), Body weight (end of test) (1), Carcass length (1), Carcass temperature (45 minutes post-mortem) (1), Cholesterol level (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feed intake (1), Ham fat thickness (1), Intramuscular fat content (1), Juiciness score (1), Leaf fat weight (1), Loin muscle area (1), Lumbar vertebra number (1), Melanoma susceptibility (1), Mycoplasma hyopneumoniae antibody titer (1), pH 24 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Water holding capacity (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (9), C3c concentration (4), Ham weight (3), Shear force (3), average daily gain (2), backfat at last rib (2), backfat at mid-back (2), CIE-b*</p>
2	130.7-131.25	<p>(2), Cooking loss (2), Estimated carcass lean content (2), Percentage type IIb fibers (2), Shoulder subcutaneous fat thickness (2), Abdominal fat weight (1), Average backfat thickness (1), Belly meat content (1), Body temperature (1), Body weight (end of</p>
2	136.55-137.08	

test) (1), Carcass length (1), Carcass weight (hot) (1), Change in Mycoplasma hyopneumoniae antibody titer (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Ham fat thickness (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra number (1), Mycoplasma hyopneumoniae antibody titer (1), Off-Flavor Score (1), Outside ham weight (1), Palmitic acid content (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Umbilical hernia (1), Water holding capacity (1)

Actinobacillus pleuropneumoniae susceptibility (10), C3c concentration (4), Ham weight (3), Shear force (3), backfat at mid-back (2), CIE-b* (2), Cooking loss (2), Estimated carcass lean content (2), Percentage type IIb fibers (2), Shoulder subcutaneous fat thickness (2), average daily gain (1), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), Carcass length (1), Carcass weight (hot) (1), Change in Mycoplasma hyopneumoniae antibody titer (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Ham fat thickness (1), Intramuscular fat content (1), Leaf fat weight (1), Loin muscle area (1), Lumbar vertebra number (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), Off-Flavor Score (1), Outside ham weight (1), Palmitic acid content (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Umbilical hernia (1), Water holding capacity (1)

Actinobacillus pleuropneumoniae susceptibility (10), C3c concentration (4), Ham weight (3), Shear force (3), backfat at mid-back (2), CIE-b* (2), Cooking loss (2), Estimated carcass lean content (2), Percentage type IIb fibers (2), Shoulder subcutaneous fat thickness (2), average daily gain (1), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), Carcass length (1), Carcass weight (hot) (1), Change in Mycoplasma hyopneumoniae antibody titer (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Ham fat thickness

2 138.58-139.12

2 138.64-139.21

(1), Intramuscular fat content (1), Leaf fat weight (1), Loin muscle area (1), Lumbar vertebra number (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), Off-Flavor Score (1), Outside ham weight (1), Palmitic acid content (1), Percentage type IIa fibers (1), pH 24 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Umbilical hernia (1), Water holding capacity (1)

Actinobacillus pleuropneumoniae susceptibility (10), C3c concentration (4), Ham weight (3), Meat color-L (3), Shear force (3), average daily gain (2), backfat at mid-back (2), Cooking loss (2), Estimated carcass lean content (2), Head weight (2), Maternal infanticide (2), Water holding capacity (2), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), bone weight (1), Carcass weight (hot) (1), Change in Mycoplasma hyopneumoniae antibody titer (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feet weight (1), Ham fat thickness (1), Hind feet conformation (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra number (1), Meat color score (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), Off-Flavor Score (1), Percentage type IIb fibers (1), pH 24 hr post-mortem (loin) (1), pH 48 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Skin weight (1), Tetanus antibody titer (1), Triglyceride level (1)

Actinobacillus pleuropneumoniae susceptibility (10), C3c concentration (4), Ham weight (3), Meat color-L (3), Shear force (3), average daily gain (2), backfat at mid-back (2), Cooking loss (2), Estimated carcass lean content (2), Head weight (2), Maternal infanticide (2), Water holding capacity (2), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), bone weight (1), Carcass weight (hot) (1), Change in Mycoplasma hyopneumoniae antibody titer (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feet weight (1), Ham fat thickness (1), Hind feet conformation (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra

2 143.9-144.51

2 144.1-144.66

number (1), Meat color score (1), *Mycoplasma hyopneumoniae* antibody titer (1), Nonfunctional nipples (1), Off-Flavor Score (1), Percentage type IIb fibers (1), pH 24 hr post-mortem (loin) (1), pH 48 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Skin weight (1), Tetanus antibody titer (1), Triglyceride level (1)

Actinobacillus pleuropneumoniae susceptibility (10), C3c concentration (4), Ham weight (3), Meat color-L (3), Shear force (3), average daily gain (2), backfat at mid-back (2), Cooking loss (2), Estimated carcass lean content (2), Head weight (2), Maternal infanticide (2), Water holding capacity (2), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), bone weight (1), Carcass weight (hot) (1), Change in *Mycoplasma hyopneumoniae* antibody titer (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feet weight (1), Ham fat thickness (1), Hind feet conformation (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra number (1), Meat color score (1), *Mycoplasma hyopneumoniae* antibody titer (1), Nonfunctional nipples (1), Off-Flavor Score (1), Percentage type IIb fibers (1), pH 24 hr post-mortem (loin) (1), pH 48 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Skin weight (1), Tetanus antibody titer (1), Triglyceride level (1)

Actinobacillus pleuropneumoniae susceptibility (10), C3c concentration (4), Ham weight (3), Meat color-L (3), backfat at mid-back (2), Cooking loss (2), Estimated carcass lean content (2), Shear force (2), Water holding capacity (2), average daily gain (1), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), Carcass weight (hot) (1), Change in *Mycoplasma hyopneumoniae* antibody titer (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feet weight (1), Ham fat thickness (1), Head weight (1), Hind feet conformation (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra number (1), *Mycoplasma hyopneumoniae* antibody titer (1), Nonfunctional nipples (1), Percentage type IIb fibers (1), pH 24 hr post-mortem (loin) (1), pH

2

144.24-145

2

144.56-145.15

2	145.06-145.82	<p>48 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Triglyceride level (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (10), C3c concentration (4), Ham weight (3), Meat color-L (3), backfat at mid-back (2), Cooking loss (2), Estimated carcass lean content (2), Shear force (2), Water holding capacity (2), average daily gain (1), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), Carcass weight (hot) (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feet weight (1), Ham fat thickness (1), Head weight (1), Hind feet conformation (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Nonfunctional nipples (1), Percentage type IIb fibers (1), pH 24 hr post-mortem (loin) (1), pH 48 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Triglyceride level (1)</p>
2	145.49-146.06	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (10), C3c concentration (4), Ham weight (3), Meat color-L (3), backfat at mid-back (2), Cooking loss (2), Estimated carcass lean content (2), Shear force (2), Water holding capacity (2), average daily gain (1), backfat at last rib (1), Belly meat content (1), Body temperature (1), Body weight (end of test) (1), Carcass weight (hot) (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), CIE-b* (1), CIE-L* (1), Cutlet weight (1), Drip loss (1), Fat to meat ratio (1), Feet weight (1), Ham fat thickness (1), Head weight (1), Hind feet conformation (1), Intramuscular fat content (1), Leaf fat weight (1), Lumbar vertebra number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Nonfunctional nipples (1), Percentage type IIb fibers (1), pH 24 hr post-mortem (loin) (1), pH 48 hr post-mortem (loin) (1), pH for Semimembranosus (1), Shear firmness (1), Shoulder weight (1), Tetanus antibody titer (1), Triglyceride level (1)</p>
3	14.01-14.58	Carcass weight (hot) (2), Corpus luteum number (2), 45 min-24 h

		pH decline (1), Abdominal fat weight (1), average daily gain (1), Backfat at tenth rib (1), Body weight (end of test) (1), Carcass temperature (45 minutes post-mortem) (1), CIE-b* (1), Cooking loss (1), Ear erectness (1), Ear weight (1), Lactate dehydrogenase level (1), Loin muscle area (1), Meat color chroma (1), Percentage giant fibers (1), pH 24 hr post-mortem (loin) (1), Shear force (1), Teat number (1), Vertebra number (1)
3	133.61-134.4	Loin muscle area (2), Base excess (1), Body weight (end of test) (1), CIE-b* (1), Cooking loss (1), Creatinine level (1), Dressing percentage (1), Fat protein content (1), Ham fat thickness (1), Hemolytic complement activity (alternative pathway) (1), Meat color chroma (1), Nonfunctional nipples (1), rhinitis (1), Shear force (1), Sodium level (1), Teat number (1) average daily gain (21), Average backfat thickness (8), Carcass length (8), Backfat weight (4), Loin muscle area (4), backfat at last rib (3), backfat at mid-back (3), Body weight (birth) (3), Fat androsthenone level (3), Intramuscular fat content (3), Small intestine length (3), Abdominal fat weight (2), Backfat thickness between 3rd and 4th rib (2), body weight (17 weeks) (2), Body weight (end of test) (2), Body weight (slaughter) (2), Carcass weight (hot) (2), CIE-L* (2), Diameter of type IIb muscle fibers (2), Ear area (2), Ear weight (2), Ham weight (2), Head weight (2), Linoleic acid content (2), pH for Semimembranosus (2), Shoulder subcutaneous fat thickness (2), Subcutaneous fat thickness (2),
4	84.23-85.4	Trimmed wholesale product / live weight (2), 9 hr-24 hr pH decline (1), Abdominal fat percentage (1), Age at slaughter (1), Backfat at first rib (1), Backfat at last lumbar (1), Backfat at rump (1), Belly weight (1), Biceps brachii weight (1), body weight (10 weeks) (1), body weight (13 weeks) (1), Body weight (3 weeks) (1), Body weight (46 days) (1), Carcass fat-free weight (1), Carcass weight (cold) (1), CD4-positive/CD8-positive leukocyte ratio (1), CSFV antibody level (1), Diameter of muscle fibers (1), Drip loss (1), Fat-cuts percentage (1), Fat percentage in carcass (1), Feed conversion ratio (1), Firmness (1), HDL/LDL ratio (1), Hematin pigmentation (1), intestinal fat weight (1), Lean cuts percentage (1), Lean meat + bone in ham (1), Lean meat

4	119.51-120.02	percentage (1), Marbling (1), Number of muscle fibers per unit area (1), Shear force at first peak (1), Side fat thickness (1), Subacid smell (1), Teat number (1), Total shear work (1), Water holding capacity (1), White blood cell counts (1) average daily gain (10), Hemolytic complement activity (classical pathway) (6), Average backfat thickness (4), Body weight (end of test) (2), Diameter of type IIB muscle fibers (2), Drip loss (2), Hematin pigmentation (2), Loin muscle area (2), Adipocyte diameter (1), backfat at last rib (1), backfat at mid-back (1), body weight (17 weeks) (1), Body weight (3 weeks) (1), Body weight (46 days) (1), Body weight (birth) (1), C3c concentration (1), Carcass length (1), Carcass weight (cold) (1), Carcass weight (hot) (1), CD4-positive leukocyte percentage (1), CD4-positive CD8-negative leukocyte percentage (1), CIE-L* (1), Diameter of muscle fibers (1), Dressing percentage (1), Ham weight (1), Hemolytic complement activity (alternative pathway) (1), Intramuscular fat content (1), Japanese color scale (1), Marbling (1), Margaric acid content (1), Mean corpuscular hemoglobin concentration (1), Meat color-a (1), Nonfunctional nipples (1), Number of muscle fibers per unit area (1), Oleic acid content (1), Palmitic acid content (1), Percentage type IIB fibers (1), pH 24 hr post mortem (ham) (1), Shear force at first peak (1), Skin thickness (1), Small intestine length (1), Subacid smell (1), subjective pork odor (1), Total shear work (1), Triglyceride level (1), Water holding capacity (1) backfat above muscle dorsi (2), backfat at mid-back (2), CIE-L* (2), Teat number (2), Backfat at last lumbar (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), C3c concentration (1), CD4-positive leukocyte percentage (1), CIE-b* (1), Drip loss (1), Feed intake (1), Front feet conformation (1), Hemolytic complement activity (alternative pathway) (1), Loin muscle area (1), Marbling (1), Meat color-b (1), Meat color-L (1), Myofibril fragmentation index (1), pH 24 hr post-mortem (loin) (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Time spent feeding (1)
5	11.75-12.35	

5	17.34-17.88	<p>backfat above muscle dorsi (2), backfat at mid-back (2), CIE-L* (2), Ear erectness (2), Teat number (2), Backfat at first rib (1), Backfat at last lumbar (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), C3c concentration (1), CD4-positive leukocyte percentage (1), CIE-b* (1), Drip loss (1), Feed intake (1), Front feet conformation (1), Hemolytic complement activity (alternative pathway) (1), Hind leg conformation (1), Loin muscle area (1), Marbling (1), Meat color-b (1), Meat color-L (1), Myofibril fragmentation index (1), pH 24 hr post-mortem (loin) (1), Reproductive tract weight (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Small intestine length (1), Time spent feeding (1), uterine horn weight (1)</p>
5	17.62-18.28	<p>backfat above muscle dorsi (2), backfat at mid-back (2), CIE-L* (2), Ear erectness (2), Shoulder subcutaneous fat thickness (2), Teat number (2), Backfat at first rib (1), Backfat at last lumbar (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), C3c concentration (1), CD4-positive leukocyte percentage (1), CIE-b* (1), Drip loss (1), Feed intake (1), Front feet conformation (1), Hemolytic complement activity (alternative pathway) (1), Hind leg conformation (1), Loin muscle area (1), Marbling (1), Meat color-b (1), Meat color-L (1), Myofibril fragmentation index (1), pH 24 hr post-mortem (loin) (1), Reproductive tract weight (1), Shear force (1), Small intestine length (1), Time spent feeding (1), uterine horn weight (1)</p>
5	18.67-19.46	<p>backfat above muscle dorsi (2), backfat at mid-back (2), CIE-L* (2), Ear erectness (2), Shoulder subcutaneous fat thickness (2), Teat number (2), Backfat at first rib (1), Backfat at last lumbar (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), C3c concentration (1), CD4-positive leukocyte percentage (1), CIE-b* (1), Drip loss (1), Feed intake (1), Front feet conformation (1), Hemolytic complement activity (alternative pathway) (1), Hind leg conformation (1), Loin muscle</p>

area (1), Marbling (1), Meat color-b (1), Meat color-L (1),
 Myofibril fragmentation index (1), pH 24 hr post-mortem (loin)
 (1), Reproductive tract weight (1), Shear force (1), Time spent
 feeding (1), uterine horn weight (1)
 backfat at mid-back (3), Carcass length (3), backfat above muscle
 dorsi (2), backfat at last rib (2), Carcass temperature (24 hr
 post-mortem) (2), Carcass weight (hot) (2), Conductivity 24
 hours post-mortem (2), Ham weight (2), pH 24 hr post-mortem
 (loin) (2), Shoulder subcutaneous fat thickness (2), Alkaline
 phosphatase activity (1), Average backfat thickness (1), Backfat at
 first rib (1), Backfat at last lumbar (1), Backfat at rump (1),
 Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), Belly
 weight (1), Biceps brachii length (1), Body weight (34 weeks) (1),
 Carcass weight (cold) (1), Cervical vertebra length (1), Cholesterol
 level (1), CIE-b* (1), CIE-L* (1), CSFV antibody level (1), Empty
 body protein linear (1), Ham fat thickness (1), Inside ham weight
 (1), Interferon-gamma level (1), Linolenic acid content (1), Loin
 and ham percentage in carcass (1), Loin muscle area (1), Marbling
 (1), Nonfunctional nipples (1), Shear force (1), Water holding
 capacity (1)
 backfat at last rib (3), backfat at mid-back (3), backfat above
 muscle dorsi (2), Backfat at last lumbar (2), Carcass temperature
 (24 hr post-mortem) (2), Carcass weight (hot) (2), Ham weight
 (2), Shoulder subcutaneous fat thickness (2), Activity during lying
 (1), Adipocyte diameter (1), Alkaline phosphatase activity (1),
 Average backfat thickness (1), average daily gain (1), Backfat at
 first rib (1), Backfat at rump (1), Backfat at tenth rib (1), Belly
 weight (1), Biceps brachii length (1), Body weight (34 weeks) (1),
 Carcass length (1), Cholesterol level (1), CIE-b* (1), CIE-L* (1),
 Conductivity 24 hours post-mortem (1), Empty body protein
 content (1), Empty body protein linear (1), Glucose level
 variations (1), Ham fat thickness (1), Inside ham weight (1),
 Linolenic acid content (1), Loin and ham percentage in carcass (1),
 Loin meat weight (1), Loin muscle area (1), Loin weight (1),
 Marbling (1), Nonfunctional nipples (1), pH 24 hr post-mortem
 (loin) (1), Phagocytic activity (1), Sarcocystis miescheriana IgG

5 88.07-88.63

5 90.26-90.9

		levels (1), Shear force (1), Time spent drinking (1), Water holding capacity (1)
5	90.78-91.37	backfat at last rib (4), Backfat at last lumbar (3), backfat at mid-back (3), Carcass weight (hot) (3), Average backfat thickness (2), average daily gain (2), backfat above muscle dorsi (2), pH 24 hr post-mortem (loin) (2), Shoulder subcutaneous fat thickness (2), Water holding capacity (2), Activity during lying (1), Adipocyte diameter (1), Backfat at first rib (1), Backfat at rump (1), Backfat at tenth rib (1), Belly weight (1), Biceps brachii length (1), Body weight (34 weeks) (1), Carcass length (1), chew score (1), Cholesterol level (1), CIE-b* (1), CIE-L* (1), Conductivity 24 hours post-mortem (1), Cooking loss (1), Empty body protein content (1), Ham fat thickness (1), Ham weight (1), Linolenic acid content (1), Loin and ham percentage in carcass (1), Loin meat weight (1), Loin muscle area (1), Loin weight (1), Marbling (1), Nonfunctional nipples (1), pH 24 hr post mortem (ham) (1), Phagocytic activity (1), Sarcocystis miescheriana IgG levels (1), Shear force (1), Time spent drinking (1)
5	91.3-91.83	backfat at last rib (5), Average backfat thickness (4), average daily gain (4), Backfat at last lumbar (4), backfat at mid-back (3), Carcass weight (hot) (3), backfat above muscle dorsi (2), Backfat at tenth rib (2), Marbling (2), Shoulder subcutaneous fat thickness (2), Water holding capacity (2), Activity during lying (1), Adipocyte diameter (1), Backfat at first rib (1), Backfat at rump (1), Belly weight (1), Body weight (16 days) (1), Body weight (34 weeks) (1), Carcass length (1), Cholesterol level (1), Cooking loss (1), Feed conversion ratio (1), Ham fat thickness (1), Ham weight (1), Japanese color scale (1), Linolenic acid content (1), Loin and ham percentage in carcass (1), Loin muscle area (1), Muscle fat content (1), Nonfunctional nipples (1), pH 24 hr post-mortem (loin) (1), Sarcocystis miescheriana IgG levels (1), Shear force (1), Time spent drinking (1)
6	5.1-5.61	CIE-a* (4), average daily gain (2), Intramuscular fat content (2), Adipocyte diameter (1), backfat at last rib (1), Backfat at tenth rib (1), Belly meat content (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Drip loss (1), Estimated carcass

		lean content (1), Fat to meat ratio (1), Inside ham weight (1), Loin muscle area (1), Marbling (1), Mean corpuscular hemoglobin content (1), Melanoma susceptibility (1), Subcutaneous fat area (1), Teat number (1), Time spent socializing (1), Vertebra number (1) CIE-a* (4), average daily gain (2), Intramuscular fat content (2), Nonfunctional nipples (2), Adipocyte diameter (1), backfat at last rib (1), Backfat at tenth rib (1), Belly meat content (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Drip loss (1), Estimated carcass lean content (1), Fat to meat ratio (1), Inside ham weight (1), Lean meat percentage (1), Loin muscle area (1), Marbling (1), Mean corpuscular hemoglobin content (1), Melanoma susceptibility (1), Subcutaneous fat area (1), Teat number (1), Time spent socializing (1), Vertebra number (1) CIE-a* (4), average daily gain (2), Intramuscular fat content (2), Nonfunctional nipples (2), Adipocyte diameter (1), backfat at last rib (1), Backfat at tenth rib (1), Belly meat content (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Drip loss (1), Estimated carcass lean content (1), Fat to meat ratio (1), Inside ham weight (1), Lean meat percentage (1), Loin muscle area (1), Marbling (1), Mean corpuscular hemoglobin content (1), Melanoma susceptibility (1), Subcutaneous fat area (1), Teat number (1), Time spent socializing (1), Vertebra number (1) CIE-a* (4), average daily gain (2), Intramuscular fat content (2), Nonfunctional nipples (2), Adipocyte diameter (1), backfat at last rib (1), Backfat at tenth rib (1), Belly meat content (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Drip loss (1), Estimated carcass lean content (1), Fat to meat ratio (1), Inside ham weight (1), Lean meat percentage (1), Loin muscle area (1), Marbling (1), Mean corpuscular hemoglobin content (1), Melanoma susceptibility (1), Subcutaneous fat area (1), Teat number (1), Time spent socializing (1), Vertebra number (1) CIE-a* (4), Loin muscle area (4), average daily gain (3), Intramuscular fat content (3), backfat at last rib (2), Conductivity 24 hours postmortem (loin) (2), skatole sensory panel (2), Adipocyte diameter (1), Average backfat thickness (1), Backfat at rump (1), Backfat at tenth rib (1), Belly meat content (1), Body
6	5.28-5.84	
6	6.81-7.43	
6	7.23-7.77	
6	8.46-8.98	

weight (46 days) (1), CO2 partial pressure (1), Drip loss (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Fat weight (total) (1), Hind hock weight (1), Inside ham weight (1), Loin and ham percentage in carcass (1), Marbling (1), Mean corpuscular hemoglobin content (1), Meat color-a (1), Melanoma susceptibility (1), Spleen weight (1), Spotted coat (1), Subcutaneous fat area (1), Teat number (1), Time spent socializing (1), Vertebra number (1)

CIE-a* (5), average daily gain (3), Loin muscle area (3), *Actinobacillus pleuropneumoniae* susceptibility (2), backfat at last rib (2), Backfat at tenth rib (2), Hematin pigmentation (2), Intramuscular fat content (2), 45 min-24 h pH decline (1), Adipocyte diameter (1), Average backfat thickness (1), Backfat at rump (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Drip loss (1), Estimated carcass lean content (1), Fat to meat ratio (1), Hind hock weight (1), Inside ham weight (1), Litter size (1), Loin and ham percentage in carcass (1), Marbling (1), Mean corpuscular hemoglobin content (1), Meat color-a (1), Meat color score (1), Relative area of type IIa fibers (1), Relative area of type IIb fibers (1), Spotted coat (1), Subcutaneous fat area (1), Teat number (1), Time spent socializing (1), Unsaturated fatty acid content (1)

CIE-a* (5), average daily gain (4), Intramuscular fat content (4), Average backfat thickness (3), Backfat at tenth rib (3), Abdominal fat weight (2), *Actinobacillus pleuropneumoniae* susceptibility (2), Drip loss (2), Feed conversion ratio (2), Lean cuts percentage (2), Loin muscle area (2), Marbling (2), Subcutaneous fat area (2), Abdominal fat percentage (1), Adipocyte diameter (1), backfat above muscle dorsi (1), backfat at last rib (1), Belly meat content (1), Belly weight (1), Body weight (46 days) (1), body weight (60 days) (1), Body weight (end of test) (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Estimated carcass lean content (1), External fat on loin (1), Fat to meat ratio (1), Feed intake (1), Ham meat weight (1), Hematin pigmentation (1), Hind hock weight (1), Hind leg conformation (1), Litter size (1), Loin

6

9.22-9.8

6

11.64-12.34

		and ham percentage in carcass (1), Loin muscle depth (1), Mean corpuscular hemoglobin content (1), Meat color-a (1), mummified pigs (1), Osteochondrosis score (1), Outside ham weight (1), Pseudorabies susceptibility (1), Relative area of type IIa fibers (1), Salmonella count in spleen (1), Shoulder subcutaneous fat thickness (1), subjective pork odor (1), Teat number (1), Time spent socializing (1)
6	14.46-15.05	CIE-a* (5), average daily gain (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Backfat at tenth rib (2), Intramuscular fat content (2), Loin muscle area (2), Marbling (2), Adipocyte diameter (1), backfat at last rib (1), Belly meat content (1), Belly weight (1), Body weight (46 days) (1), Body weight (end of test) (1), CO2 partial pressure (1), Conductivity 24 hours postmortem (loin) (1), Drip loss (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Hematin pigmentation (1), Hind hock weight (1), Hind leg conformation (1), Litter size (1), Loin and ham percentage in carcass (1), Mean corpuscular hemoglobin content (1), Meat color-a (1), Osteochondrosis score (1), Outside ham weight (1), Pseudorabies susceptibility (1), Salmonella count in spleen (1), Subcutaneous fat area (1), subjective pork odor (1), Teat number (1), Time spent socializing (1)
6	23.3-23.97	CIE-a* (5), Loin muscle area (4), average daily gain (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Conductivity 24 hours postmortem (loin) (2), Drip loss (2), Empty body protein content (2), Marbling (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), backfat at last rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Intramuscular fat content (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Litter size (1), Loin fat percentage (1), Meat color OPTO (1), Muscle moisture percentage (1), Osteochondrosis

score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Residual glycogen (1), Salmonella count in spleen (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1)

CIE-a* (5), average daily gain (4), Loin muscle area (4), Drip loss (3), *Actinobacillus pleuropneumoniae* susceptibility (2), backfat at last rib (2), Empty body protein content (2), Marbling (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1),

6 24.2-24.77 Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Intramuscular fat content (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Litter size (1), Loin fat percentage (1), Muscle moisture percentage (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Residual glycogen (1), Salmonella count in spleen (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1)

CIE-a* (5), average daily gain (4), Loin muscle area (4), Drip loss (3), *Actinobacillus pleuropneumoniae* susceptibility (2), backfat at last rib (2), Empty body protein content (2), Marbling (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1),

6 24.3-24.87 Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Intramuscular fat content (1), Lactate dehydrogenase level (1),

6	24.59-25.18	<p>Leaf fat weight (1), Litter size (1), Loin fat percentage (1), Muscle moisture percentage (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Residual glycogen (1), Salmonella count in spleen (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1)</p> <p>CIE-a* (5), average daily gain (4), Loin muscle area (4), Drip loss (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Empty body protein content (2), Marbling (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Intramuscular fat content (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Litter size (1), Loin fat percentage (1), Muscle moisture percentage (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Residual glycogen (1), Salmonella count in spleen (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1)</p>
6	25.8-26.39	<p>CIE-a* (5), Loin muscle area (4), average daily gain (3), Drip loss (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Empty body protein content (2), Marbling (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat</p>

6	27.37-27.9	<p>weight (1), Ham weight (1), Hind leg conformation (1), Intramuscular fat content (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Litter size (1), Loin fat percentage (1), Muscle moisture percentage (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Residual glycogen (1), Salmonella count in spleen (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1), Total number born alive (1) CIE-a* (5), Drip loss (4), Loin muscle area (4), average daily gain (3), Intramuscular fat content (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Body weight (slaughter) (2), Empty body protein content (2), Marbling (2), Monounsaturated fatty acid content (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Lean meat percentage (1), Litter size (1), Loin fat percentage (1), Monounsaturated fatty acid to saturated fatty acid ratio (1), Muscle moisture percentage (1), Omega-6 fatty acid content (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Polyunsaturated fatty acid content (1), Polyunsaturated fatty acid to saturated fatty acid ratio (1), Residual glycogen (1), Salmonella count in spleen (1), Saturated fatty acid content (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1), Unsaturated fatty acid content (1) CIE-a* (5), Drip loss (4), Loin muscle area (4), average daily gain</p>
6	27.45-28.04	<p>(3), Intramuscular fat content (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Body</p>

weight (slaughter) (2), Empty body protein content (2), Marbling (2), Monounsaturated fatty acid content (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Lean meat percentage (1), Litter size (1), Loin fat percentage (1), Monounsaturated fatty acid to saturated fatty acid ratio (1), Muscle moisture percentage (1), Omega-6 fatty acid content (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Polyunsaturated fatty acid content (1), Polyunsaturated fatty acid to saturated fatty acid ratio (1), Residual glycogen (1), Salmonella count in spleen (1), Saturated fatty acid content (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1), Unsaturated fatty acid content (1) CIE-a* (5), Drip loss (4), Loin muscle area (4), average daily gain (3), Intramuscular fat content (3), *Actinobacillus pleuropneumoniae* susceptibility (2), backfat at last rib (2), Body weight (slaughter) (2), Empty body protein content (2), Marbling (2), Monounsaturated fatty acid content (2), Teat number (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Lean meat percentage (1), Litter size (1), Loin fat percentage (1), Monounsaturated fatty acid to

saturated fatty acid ratio (1), Muscle moisture percentage (1), Omega-6 fatty acid content (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), Physis score (1), Polyunsaturated fatty acid content (1), Polyunsaturated fatty acid to saturated fatty acid ratio (1), Residual glycogen (1), Salmonella count in spleen (1), Saturated fatty acid content (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1), Unsaturated fatty acid content (1)

CIE-a* (5), Loin muscle area (4), Average backfat thickness (3), average daily gain (3), Drip loss (3), Intramuscular fat content (3), Litter size (3), *Actinobacillus pleuropneumoniae* susceptibility (2), backfat at last rib (2), Empty body protein content (2), Marbling (2), subjective pork flavor in lean (2), Teat number (2), Total number born alive (2), 45 min-3 hr pH decline (1), ADV antibody titer (1), Alkaline phosphatase activity (1), Anal atresia (1), Backfat at first rib (1), Backfat at tenth rib (1), Belly meat content (1), Body weight (46 days) (1), Body weight (end of test) (1), Carcass length (1), Carcass temperature (45 minutes post-mortem) (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Empty body lipid content (1), Estimated carcass lean content (1), Fat to meat ratio (1), Ham meat weight (1), Ham weight (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Loin fat percentage (1), Muscle moisture percentage (1), Number of stillborn (1), Osteochondrosis score (1), Outside ham weight (1), pH 24 hr post mortem (ham) (1), pH 45 minutes post mortem (1), Physis score (1), Residual glycogen (1), Salmonella count in spleen (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Shoulder weight picnic (1), Skin percentage (1), Skin weight (1), Subcutaneous fat area (1), Thoracic vertebra number (1)

Average backfat thickness (7), backfat at last rib (5), CIE-a* (5), average daily gain (4), Intramuscular fat content (4), Conductivity 24 hours post-mortem (3), Shear force (3), *Actinobacillus pleuropneumoniae* susceptibility (2), Alkaline phosphatase activity (2), Backfat weight (2), Body weight (slaughter) (2), Carcass

6 28.97-29.55

6 34.56-35.18

length (2), Dressing percentage (2), Drip loss (2), Fat-cuts percentage (2), Lean meat percentage (2), Loin muscle area (2), Marbling (2), Platelet count (2), subjective pork flavor in lean (2), Teat number (2), 45 min-3 hr pH decline (1), Abdominal fat weight (1), Adipocyte diameter (1), Backfat at tenth rib (1), Backfat between 3rd and 4th last ribs (1), body weight (13 weeks) (1), body weight (17 weeks) (1), Body weight (46 days) (1), Body weight (end of test) (1), Calcium level (1), Carcass weight (cold) (1), Carcass weight (hot) (1), CIE-b* (1), Creatine kinase level (1), Ear weight (1), External fat on ham (1), Ham meat weight (1), Ham weight (1), HDL/LDL ratio (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Leaf fat weight (1), Lean cuts percentage (1), Litter size (1), Liver weight (1), Loin and ham percentage in carcass (1), Loin and neck meat weight (1), Loin fat percentage (1), Loin weight (1), Meat color score (1), Muscle moisture percentage (1), Osteochondrosis score (1), Outside ham weight (1), Physis score (1), Salmonella count in spleen (1), Shoulder external fat weight (1), Shoulder meat weight (1), Small intestinal Escherichia coli F18 receptor (1), Smell intensity (1), tenderness score (1), Thoracic vertebra number (1), Time spent feeding (1), Triglyceride level (1)

Backfat at tenth rib (9), backfat at last rib (7), Intramuscular fat content (5), Fat area percentage in carcass (4), Loin muscle area (3), muscle protein percentage (3), Carcass weight (hot) (2), Daily feed intake (2), Empty body lipid content (2), Fat weight (total) (2), Ham weight (2), Teat number (2), Age at puberty (1), Alkaline phosphatase activity (1), Backfat linear at last rib (1), Backfat linear at tenth rib (1), Belly weight (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), Body weight (end of test) (1), Carcass length (1), Carcass temperature (24 hr post-mortem) (1), Cholesterol level in meat (1), Cholesterol level (1), Ear erectness (1), External fat on loin (1), Flavor score (1), hematocrit (1), Hemoglobin (1), Leptin level (1), Loin fat percentage (1), Loin weight (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), Muscle moisture percentage (1), Oleic acid content (1), Red blood cell count (1), Shear force (1), Shoulder

weight (1), skatole laboratory (1), skatole sensory panel (1), Smell intensity (1), Spareribs weight (1), subjective boar flavor in lean (1)

Backfat at tenth rib (9), backfat at last rib (7), Intramuscular fat content (5), Fat area percentage in carcass (4), Loin muscle area (3), muscle protein percentage (3), Carcass weight (hot) (2), Daily feed intake (2), Empty body lipid content (2), Fat weight (total) (2), Ham weight (2), Teat number (2), Age at puberty (1), Alkaline phosphatase activity (1), Backfat linear at last rib (1), Backfat linear at tenth rib (1), Belly weight (1), Body weight (20 weeks) (1), Carcass length (1), Carcass temperature (24 hr post-mortem) (1), Cholesterol level in meat (1), Cholesterol level (1), Ear erectness (1), External fat on loin (1), Flavor score (1), hematocrit (1), Hemoglobin (1), Leptin level (1), Linoleic acid content (1), Loin fat percentage (1), Loin weight (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), Muscle moisture percentage (1), Oleic acid content (1), Red blood cell count (1), Shear force (1), Shoulder weight (1), skatole laboratory (1), skatole sensory panel (1), Smell intensity (1), Spareribs weight (1), subjective boar flavor in lean (1)

Backfat at tenth rib (9), backfat at last rib (8), Intramuscular fat content (5), Fat area percentage in carcass (4), Loin muscle area (3), muscle protein percentage (3), Carcass weight (hot) (2), Daily feed intake (2), Empty body lipid content (2), Fat weight (total) (2), Ham weight (2), Age at puberty (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat linear at last rib (1), Backfat linear at tenth rib (1), Belly weight (1), Body temperature (1), Body weight (20 weeks) (1), Carcass length (1), Carcass temperature (24 hr post-mortem) (1), Cholesterol level in meat (1), Cholesterol level (1), Ear erectness (1), External fat on loin (1), Flavor score (1), hematocrit (1), Hemoglobin (1), Leptin level (1), Loin fat percentage (1), Loin weight (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), Muscle fat content (1), Muscle moisture percentage (1), Oleic acid content (1), Red blood cell count (1), Shear force (1), Shoulder meat weight (1), Shoulder weight (1), skatole laboratory (1), skatole

6

139.16-139.73

6

142.39-142.92

6	146.07-146.62	<p>sensory panel (1), Smell intensity (1), Spareribs weight (1), Subcutaneous fat area (1), subjective boar flavor in lean (1), Teat number (1)</p> <p>Backfat at tenth rib (9), backfat at last rib (8), muscle protein percentage (5), Fat area percentage in carcass (4), Intramuscular fat content (4), Loin muscle area (4), Muscle moisture percentage (3), Carcass temperature (24 hr post-mortem) (2), Carcass weight (hot) (2), Daily feed intake (2), Empty body lipid content (2), Fat weight (total) (2), Ham weight (2), Loin weight (2), Age at puberty (1), Alkaline phosphatase activity (1), Average backfat thickness (1), Backfat linear at last rib (1), Backfat linear at tenth rib (1), Belly weight (1), Body temperature (1), Body weight (20 weeks) (1), Carcass length (1), Cholesterol level in meat (1), Cholesterol level (1), Ear erectness (1), External fat on loin (1), Flavor score (1), Gait score (hind) (1), hematocrit (1), Hemoglobin (1), Leptin level (1), Loin fat percentage (1), Marbling (1), Mean corpuscular hemoglobin concentration (1), Muscle fat content (1), Oleic acid content (1), Red blood cell count (1), Semimembranosus angle (1), Shear force (1), Shoulder meat weight (1), Shoulder weight (1), skatole laboratory (1), skatole sensory panel (1), Smell intensity (1), Spareribs weight (1), Subcutaneous fat area (1), subjective boar flavor in lean (1), Teat number (1)</p> <p>Adipocyte diameter (6), average daily gain (6), Loin muscle area (5), Carcass length (4), Teat number (4), Average backfat thickness (3), backfat at last rib (3), Loin weight (3), Alkaline phosphatase activity (2), Backfat at tenth rib (2), Drip loss (2), Ear erectness (2), Muscle moisture percentage (2), Number of ribs (2), pH 24 hr post-mortem (loin) (2), Shoulder subcutaneous fat thickness (2), backfat above muscle dorsis (1), Backfat at last lumbar (1), Backfat weight (1), Base excess (1), Belly percentage (1), Bicarbonate level (1), Body weight (birth) (1), Body weight (end of test) (1), Carbon dioxide level (1), Carcass weight (hot) (1), Cholesterol level (1), CIE-a* (1), CIE-b* (1), conA-induced cell proliferation (1), Creatinine level (1), Dressing percentage (1), Ham weight (1), Hematin pigmentation (1), hematocrit (1), Hemoglobin (1), Interferon-gamma level (1), Interleukin 2 level</p>
7	98.38-98.96	

(1), LDL cholesterol (1), Lean meat percentage (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Lumbar vertebra number (1), Marbling (1), Mean corpuscular hemoglobin content (1), Nonfunctional nipples (1), Percentage type I fibers (1), Percentage type IIb fibers (1), PH for Longissimus dorsi (1), Potassium level (1), PRRSV antibody titer (1), Red blood cell count (1), Shear force (1), Side fat thickness (1), Spareribs weight (1), Thoracic vertebra number (1), Total shear work (1), Vertebra number (1)

average daily gain (6), Average backfat thickness (5), Loin muscle area (3), Backfat at last lumbar (2), backfat at last rib (2), Cortisol level (2), Ear area (2), Leaf fat weight (2), Red blood cell count (2), Shoulder subcutaneous fat thickness (2), Average glycolytic potential (1), Average lactate (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass length (1), Carcass weight (cold) (1), conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Intramuscular fat content (1), Lactate / diameter of white fibers (1), Lean meat percentage (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Longissimus muscle length (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Subcutaneous fat area (1), Teat number (1), Umbilical hernia (1), uterine horn length (1), Vertebra number (1)

7 111.08-111.79 average daily gain (6), Average backfat thickness (5), Loin muscle area (3), Backfat at last lumbar (2), backfat at last rib (2), Cortisol level (2), Ear area (2), Leaf fat weight (2), Lean meat percentage (2), Red blood cell count (2), Shoulder subcutaneous fat thickness (2), tenderness score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Backfat at rump (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass length (1), Carcass weight (cold) (1),

7 112.35-113

conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Ham fat thickness (1), Head weight (1), Intramuscular fat content (1), Lactate / diameter of white fibers (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Longissimus muscle length (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Shear force (1), Subcutaneous fat area (1), Teat number (1), Umbilical hernia (1), uterine horn length (1), Vertebra number (1)

7 112.79-113.35 Average backfat thickness (5), average daily gain (5), Loin muscle area (3), Backfat at last lumbar (2), backfat at last rib (2), Cortisol level (2), Ear area (2), Leaf fat weight (2), Lean meat percentage (2), Red blood cell count (2), Shoulder subcutaneous fat thickness (2), tenderness score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass length (1), Carcass weight (cold) (1), conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Ham fat thickness (1), Lactate / diameter of white fibers (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Shear force (1), Subcutaneous fat area (1), Teat number (1), Umbilical hernia (1), uterine horn length (1), Vertebra number (1)

7 113.71-114.26 Average backfat thickness (5), average daily gain (5), Vertebra number (5), Loin muscle area (3), Backfat at last lumbar (2), backfat at last rib (2), Cortisol level (2), Ear area (2), Leaf fat weight (2), Lean meat percentage (2), Red blood cell count (2), Shoulder subcutaneous fat thickness (2), tenderness score (2), Umbilical hernia (2), 45 min-24 h pH decline (1), Average

glycolytic potential (1), Average lactate (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass length (1), Carcass weight (cold) (1), conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Ham fat thickness (1), Lactate / diameter of white fibers (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Longissimus muscle length (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Right teat number (1), Shear force (1), Subcutaneous fat area (1), Teat number (1), Thoracic vertebra number (1), uterine horn length (1)

7 115.77-116.32 average daily gain (5), Average backfat thickness (3), Backfat at last lumbar (2), backfat at last rib (2), Carcass length (2), Cortisol level (2), Ear area (2), Lean meat percentage (2), Loin muscle area (2), Shoulder subcutaneous fat thickness (2), tenderness score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass weight (cold) (1), conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Ham fat thickness (1), HDL cholesterol (1), Lactate / diameter of white fibers (1), Leaf fat weight (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Left teat number (1), Loin fat percentage (1), Loin muscle depth (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Shear force (1), Subcutaneous fat area (1), Teat number (1), Thoracic vertebra number (1), uterine horn length (1), Vertebra number (1)

7 116.04-116.67 average daily gain (5), Average backfat thickness (3), Backfat at last lumbar (2), backfat at last rib (2), Carcass length (2), Cortisol level (2), Ear area (2), Lean meat percentage (2), Loin muscle area

(2), Shoulder subcutaneous fat thickness (2), tenderness score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass weight (cold) (1), Cholesterol level (1), conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Ham fat thickness (1), HDL cholesterol (1), Lactate / diameter of white fibers (1), Leaf fat weight (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Shear force (1), Subcutaneous fat area (1), Teat number (1), Thoracic vertebra number (1), uterine horn length (1) average daily gain (5), Average backfat thickness (3), Backfat at last lumbar (2), backfat at last rib (2), Carcass length (2), Cortisol level (2), Ear area (2), Lean meat percentage (2), Loin muscle area (2), Shoulder subcutaneous fat thickness (2), tenderness score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Backfat at tenth rib (1), Backfat weight (1), Belly percentage (1), Body weight (birth) (1), Body weight (end of test) (1), C3c concentration (1), Carcass weight (cold) (1), Cholesterol level (1), conA-induced cell proliferation (1), Diameter of type I muscle fibers (1), Diameter of type IIb muscle fibers (1), Ear erectness (1), Ham fat thickness (1), Lactate / diameter of white fibers (1), Leaf fat weight (1), Lean meat weight (1), lean thickness between 3rd and 4th last ribs (1), Loin fat percentage (1), Loin muscle depth (1), Lumbar vertebra number (1), Muscle moisture percentage (1), Number of white fibers (1), Percentage type IIb fibers (1), Potassium level (1), R-value / diameter of white fibers (1), R-value (1), Shear force (1), Subcutaneous fat area (1), Teat number (1), uterine horn length (1) average daily gain (2), backfat at mid-back (2), Average backfat thickness (1), backfat above muscle dorsi (1), backfat at last rib

7 116.72-117.27

9 16.82-17.43

(1), Belly fat area (1), Body weight (weaning) (1), CIE-a* (1), CIE-L* (1), Ear erectness (1), Ham weight (1), Leaf fat weight (1), Leptin level (1), Linolenic acid content (1), Muscle moisture percentage (1), Myristic acid content (1), Nonfunctional nipples (1), Shear force (1), tenderness score (1), Time spent feeding (1), Time spent rooting (1)

backfat at mid-back (2), Leaf fat weight (2), androstenone laboratory (1), Average backfat thickness (1), average daily gain (1), backfat above muscle dorsii (1), CIE-a* (1), CIE-L* (1), CSFV antibody level (1), Ear erectness (1), Intramuscular fat content (1), Liver weight (1), Melanoma susceptibility (1), Muscle fat content (1), Muscle moisture percentage (1), Nonfunctional nipples (1), Palmitoleic acid content (1), pH 40 minutes post mortem (ham) (1) Shoulder weight (3), average daily gain (2), backfat at mid-back (2), Loin muscle area (2), Meat color-L (2), Off-Flavor Score (2), Palmitoleic acid content (2), Stearic acid content (2), Average backfat thickness (1), backfat above muscle dorsii (1), Backfat at first rib (1), Backfat at tenth rib (1), CIE-a* (1), CIE-L* (1), CO2 partial pressure (1), Corpus luteum number (1), Diameter of type I muscle fibers (1), Drip loss (1), Ear erectness (1), External fat on ham (1), External fat on loin (1), Feed intake (1), Ham fat weight (1), Haptoglobin concentration (1), Leaf fat weight (1), Melanoma susceptibility (1), Muscle moisture percentage (1), pH 40 minutes post mortem (ham) (1), Saturated fatty acid content (1), Shear force (1), Side fat thickness (1), Spleen weight (1)

Empty body protein content (2), Mean corpuscular volume (2), Meat color-L (2), Abdominal fat weight (1), Average backfat thickness (1), backfat above muscle dorsii (1), Backfat at first rib (1), backfat at mid-back (1), body weight (10 weeks) (1), Body weight (3 weeks) (1), Carcass length (1), Carcass temperature (45 minutes post-mortem) (1), Carcass weight (hot) (1), CIE-a* (1), CIE-L* (1), Conductivity 24 hours post-mortem (1), Corpus luteum number (1), Diameter of type IIa muscle fibers (1), Drip loss (1), Empty body lipid content (1), Fat-cuts percentage (1), Hemoglobin (1), Mean corpuscular hemoglobin concentration (1), Mean corpuscular hemoglobin content (1), Meat color-b (1),

		Melanoma susceptibility (1), Muscle moisture percentage (1), pH 24 hr post-mortem (loin) (1), Potassium level (1), Salmonella count in spleen (1), Shear force (1)
9	139.11-139.65	Empty body protein content (2), Mean corpuscular volume (2), Meat color-L (2), Abdominal fat weight (1), Average backfat thickness (1), backfat above muscle dorsi (1), Backfat at first rib (1), backfat at mid-back (1), body weight (10 weeks) (1), Body weight (3 weeks) (1), Carcass length (1), Carcass temperature (45 minutes post-mortem) (1), Carcass weight (hot) (1), CIE-a* (1), CIE-L* (1), Diameter of type IIa muscle fibers (1), Drip loss (1), Empty body lipid content (1), Fat-cuts percentage (1), Hemoglobin (1), Mean corpuscular hemoglobin concentration (1), Mean corpuscular hemoglobin content (1), Meat color-b (1), Melanoma susceptibility (1), Muscle moisture percentage (1), pH 24 hr post-mortem (loin) (1), Potassium level (1), Salmonella count in spleen (1), Shear force (1)
9	144.13-144.66	Mean corpuscular hemoglobin concentration (2), Mean corpuscular hemoglobin content (2), Average backfat thickness (1), backfat above muscle dorsi (1), body weight (10 weeks) (1), Carcass length (1), Carcass weight (hot) (1), CIE-a* (1), CIE-L* (1), Creatine kinase level (1), Diameter of type IIa muscle fibers (1), Gestation length (1), Hemoglobin (1), Interleukin 10 level (1), Mean corpuscular volume (1), Melanoma susceptibility (1), Muscle moisture percentage (1), Potassium level (1), Red cell distribution width (1), Reflectance value (1)
9	144.21-144.76	Mean corpuscular hemoglobin concentration (2), Mean corpuscular hemoglobin content (2), Average backfat thickness (1), backfat above muscle dorsi (1), body weight (10 weeks) (1), Carcass length (1), Carcass weight (hot) (1), CIE-a* (1), CIE-L* (1), Creatine kinase level (1), Diameter of type IIa muscle fibers (1), Gestation length (1), Hemoglobin (1), Interleukin 10 level (1), Mean corpuscular volume (1), Melanoma susceptibility (1), Muscle moisture percentage (1), Potassium level (1), Red cell distribution width (1), Reflectance value (1)
9	144.56-145.25	Mean corpuscular hemoglobin concentration (2), Mean corpuscular hemoglobin content (2), backfat above muscle dorsi

10	21.04-21.58	<p>(1), body weight (10 weeks) (1), Carcass length (1), Carcass weight (hot) (1), CIE-a* (1), CIE-L* (1), Creatine kinase level (1), Diameter of type IIa muscle fibers (1), Gestation length (1), Hemoglobin (1), Interleukin 10 level (1), Mean corpuscular volume (1), Melanoma susceptibility (1), Muscle moisture percentage (1), Potassium level (1), Pseudorabies susceptibility (1), Red cell distribution width (1), Reflectance value (1) average daily gain (4), Marbling (2), Percentage type I fibers (2), Stearic acid content (2), Average daily lean meat gain (1), backfat at mid-back (1), Carcass weight (hot) (1), Change in interferon-gamma level (1), CIE-a* (1), CIE-b* (1), Dressing percentage (1), Gait score (hind) (1), Interleukin 10 level (1), Linoleic acid content (1), Lumbar vertebra number (1), Melanoma susceptibility (1), Number of capillaries per muscle fiber (1), Number of capillaries per type IIa fiber (1), Oleic acid content (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Vertebra number (1) average daily gain (4), Dressing percentage (2), Percentage type I fibers (2), Stearic acid content (2), Average daily lean meat gain (1), backfat at mid-back (1), Carcass weight (hot) (1), Change in interferon-gamma level (1), CIE-a* (1), CIE-b* (1), Gait score (hind) (1), Interleukin 10 level (1), Linoleic acid content (1),</p>
10	24.86-25.42	<p>Lumbar vertebra number (1), Marbling (1), Melanoma susceptibility (1), Number of capillaries per muscle fiber (1), Number of capillaries per type IIa fiber (1), Oleic acid content (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Vertebra number (1)</p>
10	25.04-25.63	<p>average daily gain (4), Dressing percentage (2), Percentage type I fibers (2), Stearic acid content (2), Average daily lean meat gain (1), backfat at mid-back (1), Carcass weight (hot) (1), Change in interferon-gamma level (1), CIE-a* (1), CIE-b* (1), Gait score (hind) (1), Interleukin 10 level (1), Linoleic acid content (1), Lumbar vertebra number (1), Marbling (1), Melanoma</p>

		<p>susceptibility (1), Number of capillaries per muscle fiber (1), Number of capillaries per type IIa fiber (1), Oleic acid content (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Vertebra number (1)</p> <p>average daily gain (4), Dressing percentage (2), Percentage type I fibers (2), Stearic acid content (2), Average daily lean meat gain (1), backfat at mid-back (1), Cannon bone circumference (1), Carcass weight (hot) (1), Change in interferon-gamma level (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Gait score (hind) (1), Interleukin 10 level (1), Lumbar vertebra number (1), Marbling (1), Melanoma susceptibility (1), Number of capillaries per muscle fiber (1), Number of capillaries per type IIa fiber (1), Oleic acid content (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Vertebra number (1)</p> <p>Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Creatinine level (1),</p>
10	25.85-26.42	
10	53.15-53.84	<p>External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Vertebra number (1)</p> <p>Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Linoleic</p>
10	54.26-54.86	

		acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Umbilical hernia (1), Vertebra number (1)
10	55.1-55.9	Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Juiciness score (1), Lactate dehydrogenase level (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Umbilical hernia (1), Vertebra number (1)
10	56.09-56.62	Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Umbilical hernia (1), Vertebra number (1)
10	56.25-56.8	Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Lactate

		dehydrogenase level (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Umbilical hernia (1), Vertebra number (1)
10	56.62-57.29	Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Lactate dehydrogenase level (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Umbilical hernia (1), Vertebra number (1)
10	57.42-57.97	Teat number (3), average daily gain (2), hematocrit (2), Shear force (2), Backfat at first rib (1), backfat at last rib (1), backfat at mid-back (1), Body weight (46 days) (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), External fat on loin (1), Hemoglobin (1), Hind leg conformation (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Mean corpuscular hemoglobin content (1), Mean corpuscular volume (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Umbilical hernia (1), Vertebra number (1)
10	61.07-61.67	Teat number (4), average daily gain (2), hematocrit (2), Shear force (2), Aspartate amino transferase activity (1), backfat at last rib (1), backfat at mid-back (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), Creatinine level

		(1), Ham fat thickness (1), Ham fat weight (1), Haptoglobin concentration (1), Hemoglobin (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Musculus semimembranosus et adductor (SMA) weight (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Plasma FSH concentration (1), Red cell distribution width (1), Reflectance value (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Tail weight (1), Vertebra number (1)
10	61.2-61.74	Teat number (4), average daily gain (2), hematocrit (2), Shear force (2), Aspartate amino transferase activity (1), backfat at last rib (1), backfat at mid-back (1), Body weight (slaughter) (1), CIE-a* (1), CIE-b* (1), Conductivity 24 hours postmortem (ham) (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Ham fat weight (1), Haptoglobin concentration (1), Hemoglobin (1), Linoleic acid content (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Musculus semimembranosus et adductor (SMA) weight (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Plasma FSH concentration (1), Red cell distribution width (1), Reflectance value (1), Semimembranosus angle (1), Shoulder subcutaneous fat thickness (1), subjective abnormal odor (1), Tail weight (1), Vertebra number (1)
10	61.86-62.41	Teat number (2), Aspartate amino transferase activity (1), average daily gain (1), backfat at last rib (1), backfat at mid-back (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Ham fat weight (1), Haptoglobin concentration (1), hematocrit (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), Musculus semimembranosus et adductor (SMA) weight (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Plasma FSH concentration (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Vertebra number (1)

10	62.49-63.23	Teat number (2), Aspartate amino transferase activity (1), average daily gain (1), backfat at last rib (1), backfat at mid-back (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Ham fat weight (1), Haptoglobin concentration (1), hematocrit (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), muscle protein percentage (1), Musculus semimembranosus et adductor (SMA) weight (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Plasma FSH concentration (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Vertebra number (1)
10	62.78-63.37	Teat number (2), Aspartate amino transferase activity (1), backfat at last rib (1), backfat at mid-back (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Haptoglobin concentration (1), hematocrit (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), muscle protein percentage (1), Musculus semimembranosus et adductor (SMA) weight (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Plasma FSH concentration (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Vertebra number (1)
10	63.02-63.65	Teat number (2), Aspartate amino transferase activity (1), backfat at last rib (1), backfat at mid-back (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Haptoglobin concentration (1), hematocrit (1), Loin muscle area (1), Lumbar vertebra number (1), Marbling (1), muscle protein percentage (1), Musculus semimembranosus et adductor (SMA) weight (1), Musculus semitendinosus (ST) weight (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Plasma FSH concentration (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Vertebra number (1)
10	64.98-65.51	Aspartate amino transferase activity (1), backfat at mid-back (1), Cholesterol level in meat (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat

		thickness (1), Haptoglobin concentration (1), hematocrit (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Vertebra number (1)
10	65.42-65.99	Aspartate amino transferase activity (1), backfat at mid-back (1), Cholesterol level in meat (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Haptoglobin concentration (1), hematocrit (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Palmitoleic acid content (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Vertebra number (1)
10	65.85-66.44	Age at puberty (1), Aspartate amino transferase activity (1), backfat at mid-back (1), Cholesterol level in meat (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Haptoglobin concentration (1), hematocrit (1), Linoleic acid content (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Umbilical hernia (1), Vertebra number (1)
10	66.32-66.86	Age at puberty (1), Aspartate amino transferase activity (1), backfat at mid-back (1), Cholesterol level in meat (1), CIE-a* (1), CIE-b* (1), Corpus luteum number (1), Cortisol level (1), Creatinine level (1), Ham fat thickness (1), Haptoglobin concentration (1), hematocrit (1), Linoleic acid content (1), Lumbar vertebra number (1), Marbling (1), Osteochondrosis score (1), Semimembranosus angle (1), Shear force (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Umbilical hernia (1), Vertebra number (1)
10	70.51-71.05	Age at puberty (3), Aspartate amino transferase activity (1), Cholesterol level in meat (1), CIE-a* (1), CIE-b* (1), Creatinine level (1), Haptoglobin concentration (1), hematocrit (1), Lumbar vertebra number (1), Marbling (1), Semimembranosus angle (1), Shear force (1), Teat number (1), Vertebra number (1)

11	8.81-9.41	<p>Percentage type IIb fibers (3), Marbling (2), backfat at last rib (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), Backfat weight (1), Belly weight (1), Carcass length (1), Conductivity 24 hours postmortem (loin) (1), Ear area (1), Ear erectness (1), Estrone laboratory (1), Loin muscle area (1), Lymphocyte number (1), Mean corpuscular hemoglobin content (1), Monocyte number (1), Percentage of backfat and leaf fat in carcass (1), Percentage type IIa fibers (1), Segmented neutrophil number (1), Teat number (1), Time spent socializing (1)</p> <p>Loin muscle depth (4), Loin muscle area (3), Percentage type IIb fibers (3), Hemolytic complement activity (alternative pathway) (2), Percentage type IIa fibers (2), Toll-like receptor 9 level (2), backfat at last rib (1), backfat at mid-back (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), Backfat weight (1), Belly weight (1), Carcass length (1), Change in interferon-gamma level (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Ear area (1), Ear erectness (1),</p>
11	18.4-18.94	<p>Interferon-gamma level (1), Interleukin 10 level (1), Interleukin 2 level (1), Loin and neck meat weight (1), Loin meat weight (1), Loin weight (1), Lymphocyte number (1), Mean corpuscular hemoglobin concentration (1), Mean corpuscular hemoglobin content (1), Monocyte number (1), Percentage of backfat and leaf fat in carcass (1), Segmented neutrophil number (1), Teat number (1), Tetanus antibody titer (1), Time spent socializing (1), Toll-like receptor 2 level (1), Triglyceride level (1)</p> <p>Loin muscle area (3), Loin muscle depth (3), Percentage type IIb fibers (3), Hemolytic complement activity (alternative pathway) (2), Percentage type IIa fibers (2), Toll-like receptor 9 level (2), backfat at last rib (1), backfat at mid-back (1), Backfat at tenth rib (1), Backfat thickness between 3rd and 4th rib (1), Backfat weight (1), Belly weight (1), Change in interferon-gamma level (1),</p>
11	19.21-19.8	<p>CIE-b* (1), Interferon-gamma level (1), Interleukin 10 level (1), Interleukin 2 level (1), Loin and neck meat weight (1), Loin meat weight (1), Loin weight (1), Lymphocyte number (1), Mean corpuscular hemoglobin concentration (1), Mean corpuscular hemoglobin content (1), Monocyte number (1), Percentage of</p>

12	15.67-16.22	<p>backfat and leaf fat in carcass (1), Segmented neutrophil number (1), Teat number (1), Tetanus antibody titer (1), Time spent socializing (1), Toll-like receptor 2 level (1), Triglyceride level (1) backfat at last rib (4), <i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Carcass length (2), Fat-cuts percentage (2), Teat number (2), Average backfat thickness (1), backfat at mid-back (1), Backfat at tenth rib (1), Belly weight (1), body weight (10 weeks) (1), Cholesterol level (1), Cooking loss (1), Ear area (1), HDL cholesterol (1), Interleukin 10 level (1), LDL cholesterol (1), Leaf fat weight (1), Left teat number (1), Linolenic acid content (1), Loin fat percentage (1), Marbling (1), Monocyte number (1), Muscle moisture percentage (1), Phosphate level (1), Reproductive tract weight (1), Right teat number (1), Thoracic vertebra number (1), Toll-like receptor 9 level (1), Triglyceride level (1), Vertebra number (1)</p>
12	16.51-17.05	<p>backfat at last rib (4), <i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Carcass length (2), Fat-cuts percentage (2), Teat number (2), Average backfat thickness (1), backfat at mid-back (1), Backfat at tenth rib (1), Belly weight (1), body weight (10 weeks) (1), Cholesterol level (1), Ear area (1), HDL cholesterol (1), Interleukin 10 level (1), LDL cholesterol (1), Leaf fat weight (1), Left teat number (1), Linolenic acid content (1), Loin fat percentage (1), Marbling (1), Monocyte number (1), Muscle moisture percentage (1), Phosphate level (1), Right teat number (1), Thoracic vertebra number (1), Toll-like receptor 9 level (1), Triglyceride level (1), Vertebra number (1)</p>
12	16.59-17.31	<p>backfat at last rib (4), <i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Teat number (3), Carcass length (2), Fat-cuts percentage (2), Average backfat thickness (1), backfat at mid-back (1), Backfat at tenth rib (1), backfat between the last 3rd and 4th lumbar (1), Belly weight (1), body weight (10 weeks) (1), Cholesterol level (1), Ear area (1), Fat area percentage in carcass (1), HDL cholesterol (1), Interleukin 10 level (1), LDL cholesterol (1), Leaf fat weight (1), Left teat number (1), Linolenic acid content (1), Loin fat percentage (1), Marbling (1), Monocyte number (1), Muscle moisture percentage (1), Percentage type IIa</p>

12	43.14-43.7	<p>fibers (1), Phosphate level (1), Right teat number (1), Thoracic vertebra number (1), Toll-like receptor 9 level (1), Triglyceride level (1), Vertebra number (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Teat number (3), Body weight (birth) (2), Carcass weight (hot) (2), Diameter of type I muscle fibers (2), Ovary weight (2), White blood cell counts (2), Average backfat thickness (1), average daily gain (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Drip loss (1), Ear erectness (1), Gestation length (1), Ham fat thickness (1), Ham weight (1), Heart weight (1), Interleukin 10 level (1), Leaf fat weight (1), Left teat number (1), Loin muscle area (1), Loin muscle depth (1), Loin weight (1), Marbling (1), Meat color-L (1), Meat color chroma (1), Muscle moisture percentage (1), Mycoplasmal pneumonia susceptibility (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Phosphate level (1), Red cell distribution width (1), Right teat number (1), subjective abnormal flavor in fat (1), Thoracic vertebra number (1), Time spent drinking (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1), Vertebra number (1)</p>
12	44.07-44.66	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Teat number (3), Body weight (birth) (2), Carcass weight (hot) (2), Diameter of type I muscle fibers (2), Ovary weight (2), White blood cell counts (2), Average backfat thickness (1), average daily gain (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), chew score (1), CIE-b* (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Drip loss (1), Ear erectness (1), Gestation length (1), Ham fat thickness (1), Ham weight (1), Heart weight (1), Interleukin 10 level (1), Leaf fat weight (1), Left teat number (1), Loin muscle area (1), Loin muscle depth (1), Loin weight (1), Marbling (1), Meat color-L (1), Meat color chroma (1), Muscle moisture percentage (1), Mycoplasmal pneumonia susceptibility (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Phosphate</p>

12	48.84-49.45	<p>level (1), Red cell distribution width (1), Right teat number (1), Stearic acid content (1), subjective abnormal flavor in fat (1), Thoracic vertebra number (1), Time spent drinking (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1), Vertebra number (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Loin muscle area (3), Meat color-L (3), Body weight (birth) (2), CIE-a* (2), Diameter of type I muscle fibers (2), Drip loss (2), Marbling (2), Ovary weight (2), Percentage type IIb fibers (2), Teat number (2), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Base excess (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), Carcass weight (cold) (1), Carcass weight (hot) (1), chew score (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Ham fat thickness (1), Ham weight (1), Heart weight (1), Interleukin 10 level (1), Leaf fat weight (1), Loin fat percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Muscle moisture percentage (1), Number of muscle fibers per unit area (1), Palmitoleic acid content (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Phosphate level (1), Shear force (1), subjective abnormal flavor in fat (1), Thoracic vertebra number (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1), Vertebra number (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Loin muscle area (3), Body weight (birth) (2), CIE-a* (2), Diameter of type I muscle fibers (2), Drip loss (2), Ham weight (2), Marbling (2), Percentage type IIb fibers (2), Teat number (2), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Base excess (1), body weight (10 weeks) (1), Body weight (20 weeks) (1), Carcass weight (cold) (1), Carcass weight (hot) (1), chew score (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Ham fat thickness (1), Heart weight (1), Interleukin 10 level (1), Leaf fat weight (1), Loin fat percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Muscle moisture</p>
12	53.71-54.25	<p>percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Muscle moisture</p>

12	54.4-54.99	<p>percentage (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Saturated fatty acid content (1), Shear force (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1), Vertebra number (1)</p> <p>Loin muscle area (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Body weight (birth) (2), CIE-a* (2), Diameter of type I muscle fibers (2), Drip loss (2), Ham weight (2), Marbling (2), Percentage type IIb fibers (2), Teat number (2), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Base excess (1), body weight (10 weeks) (1), Carcass weight (cold) (1), Carcass weight (hot) (1), chew score (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Ham fat thickness (1), Heart weight (1), Interleukin 10 level (1), Loin fat percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Shear force (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1)</p>
12	58.35-58.93	<p>Loin muscle area (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Body weight (birth) (2), CIE-a* (2), Diameter of type I muscle fibers (2), Drip loss (2), Ham weight (2), Marbling (2), Percentage type IIb fibers (2), Teat number (2), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Base excess (1), body weight (10 weeks) (1), Carcass weight (cold) (1), Carcass weight (hot) (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Ham fat thickness (1), Heart weight (1), Interleukin 10 level (1), Loin fat percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Shear force (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1)</p>
12	58.69-59.2	<p>Loin muscle area (3), <i>Actinobacillus pleuropneumoniae</i></p>

		<p>susceptibility (2), Body weight (birth) (2), CIE-a* (2), Diameter of type I muscle fibers (2), Drip loss (2), Ham weight (2), Marbling (2), Percentage type IIb fibers (2), Teat number (2), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Base excess (1), body weight (10 weeks) (1), Carcass weight (cold) (1), Carcass weight (hot) (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Ham fat thickness (1), Heart weight (1), Interleukin 10 level (1), Loin fat percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Shear force (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1)</p>
12	58.76-59.39	<p>Marbling (4), Carcass length (3), Loin muscle area (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Body weight (birth) (2), CIE-a* (2), Diameter of type I muscle fibers (2), Drip loss (2), Ham weight (2), Percentage type IIb fibers (2), Teat number (2), Abdominal fat percentage (1), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), Base excess (1), body weight (10 weeks) (1), Bone percentage (1), Carcass weight (cold) (1), Carcass weight (hot) (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Ham fat thickness (1), Heart weight (1), Interleukin 10 level (1), Intramuscular fat content (1), Loin fat percentage (1), Loin muscle depth (1), Loin weight (1), Mean corpuscular hemoglobin content (1), Meat color chroma (1), Number of muscle fibers per unit area (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Shear force (1), Toll-like receptor 2 level (1), Toll-like receptor 9 level (1), Total muscle fiber number (1), Triglyceride level (1)</p>
13	14.96-15.5	<p>Average backfat thickness (2), average daily gain (2), Corpus luteum number (2), Loin muscle area (2), Salmonella count in spleen (2), <i>Actinobacillus pleuropneumoniae</i> susceptibility (1), Age at puberty (1), Backfat at tenth rib (1), Body temperature (1), Body weight (weaning) (1), CIE-a* (1), Ham meat weight (1),</p>

13	25.83-26.47	<p>Inside ham weight (1), Juiciness score (1), Lactate dehydrogenase level (1), LDL cholesterol (1), Loin muscle depth (1), Meat color-b (1), Nonfunctional nipples (1), pH 45 minutes post mortem (1), Sarcocystis miescheriana IgM levels (1), Shear force (1), Time spent socializing (1), Triglyceride level (1) average daily gain (5), Corpus luteum number (3), Average backfat thickness (2), Loin muscle area (2), <i>Actinobacillus pleuropneumoniae</i> susceptibility (1), Age at puberty (1), androstenone sensory panel (1), backfat at last rib (1), Backfat at tenth rib (1), Backfat weight (1), Body temperature (1), Body weight (weaning) (1), CIE-a* (1), Conductivity 45 minutes post-mortem (1), Ham meat weight (1), Inside ham weight (1), intestinal fat weight (1), Juiciness score (1), Lactate dehydrogenase level (1), LDL cholesterol (1), Loin fat percentage (1), Loin muscle depth (1), Melanoma susceptibility (1), Muscle moisture percentage (1), Nonfunctional nipples (1), pH 45 minutes post mortem (1), Salmonella count in spleen (1), Sarcocystis miescheriana IgM levels (1), Shear force (1), skatole laboratory (1), Time spent socializing (1), Triglyceride level (1)</p>
14	0.72-1.24	<p>--</p> <p>Fat androstenone level (4), Shear force at first peak (3), Total number born alive (3), Creatinine level (2), Percentage type I fibers (2), Percentage type IIb fibers (2), Reflectance value (2), Abdominal fat weight (1), Adipocyte diameter (1), androstenone sensory panel (1), Average backfat thickness (1), Average instron (star probe) force (1), backfat above muscle dorsi (1), backfat at last rib (1), Body weight (birth) (1), C3c concentration (1), Calcium level (1), CIE-L* (1), Daily feed intake (1), Front feet conformation (1), Front leg conformation (1), Haptoglobin concentration (1), Hind feet conformation (1), indole laboratory (1), intestinal fat weight (1), Leaf fat weight (1), Linoleic acid content (1), Loin muscle area (1), Marbling (1), Meat color-a (1), Meat color-L (1), Melanoma susceptibility (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Potassium level (1), Relative area of type IIb fibers (1), Reproductive tract weight (1), rhinitis (1), Shear force (1), skatole sensory panel (1), Stearic</p>
14	15.86-16.37	<p>Calcium level (1), CIE-L* (1), Daily feed intake (1), Front feet conformation (1), Front leg conformation (1), Haptoglobin concentration (1), Hind feet conformation (1), indole laboratory (1), intestinal fat weight (1), Leaf fat weight (1), Linoleic acid content (1), Loin muscle area (1), Marbling (1), Meat color-a (1), Meat color-L (1), Melanoma susceptibility (1), Osteochondrosis score (1), Percentage type IIa fibers (1), Potassium level (1), Relative area of type IIb fibers (1), Reproductive tract weight (1), rhinitis (1), Shear force (1), skatole sensory panel (1), Stearic</p>

		acid content (1), Subcutaneous fat area (1), subjective abnormal odor (1), subjective boar flavor in fat (1), subjective boar flavor in lean (1)
14	139.04-139.59	Loin muscle area (3), Shear force at first peak (3), Shear force (3), CIE-L* (2), Estimated carcass lean content (2), pH 24 hr post-mortem (loin) (2), Shoulder meat weight (2), Body weight (birth) (1), cis-Vaccenic acid content (1), Diameter of type IIa muscle fibers (1), Diameter of type IIb muscle fibers (1), Drip loss (1), Fat-cuts percentage (1), Fat protein content (1), Lactate level (1), Light butt ham weight (1), Loin muscle depth (1), Loin weight (1), Maternal infanticide (1), Meat color-b (1), Meat color density (1), Meat color OPTO (1), Meat color score (1), Number of muscle fibers per unit area (1), Percentage type IIb fibers (1), pH 24 hr post mortem (ham) (1), Reflectance value (1), Salmonella count in liver and spleen (1), Salmonella count in liver (1), Salmonella count in spleen (1), Spinal curvature (1), subjective pork flavor in lean (1), Thawing loss (1), Toll-like receptor 9 level (1), Total muscle fiber number (1)
15	16.7-17.55	Shear force (3), Average instron (star probe) force (1), Backfat at tenth rib (1), Backfat between 6th and 7th ribs (1), C3c concentration (1), chew score (1), Cooking loss (1), Corpus luteum number (1), Hind feet conformation (1), Hind leg conformation (1), intestinal fat weight (1), Meat color score (1), pH 24 hr post-mortem (loin) (1), pH 24 hr post mortem (ham) (1) pH 24 hr post-mortem (loin) (5), tenderness score (5), Backfat at tenth rib (4), Average glycogen (3), Lean meat percentage (3), Meat color-L (3), Shear force (3), average daily gain (2), Average glycolytic potential (2), Cooking loss (2), Corpus luteum number (2), Ear weight (2), Meat color score (2), pH 24 hr post mortem (ham) (2), pH for Semimembranosus (2), 1h-48h pH decline (1),
15	132.78-133.32	Abdominal fat weight (1), Average backfat thickness (1), Average lactate (1), Backfat at first rib (1), Backfat between 6th and 7th ribs (1), Body temperature (1), Body weight (weaning) (1), CIE-a* (1), CIE-L* (1), Conductivity 24 hours postmortem (loin) (1), Creatinine level (1), Diameter of giant fibers (1), Diameter of type I muscle fibers (1), Diameter of type IIa muscle fibers (1), Drip

loss (1), Firmness (1), intestinal fat weight (1), Intramuscular fat content (1), Juiciness score (1), Loin muscle area (1), Loin muscle depth (1), Meat color-a (1), Meat color OPTO (1), Muscle moisture percentage (1), muscle protein percentage (1), Nonfunctional nipples (1), Percentage angular fibers (1), pH 48 hr post-mortem (loin) (1), Salmonella count in liver and spleen (1), Salmonella count in spleen (1), Skin thickness (1), Total muscle fiber number (1)

pH 24 hr post-mortem (loin) (6), tenderness score (5), average daily gain (3), Backfat at tenth rib (3), Corpus luteum number (3), pH 24 hr post mortem (ham) (3), Shear force (3), Average glycolytic potential (2), Cooking loss (2), Drip loss (2), Ear weight (2), Lean meat percentage (2), Meat color score (2), 1h-48h pH decline (1), Abdominal fat weight (1), Average glycogen (1), Backfat at first rib (1), backfat at last rib (1), Backfat between 6th and 7th ribs (1), Belly weight (1), Body temperature (1), Calcium level (1), CIE-a* (1), CIE-b* (1), CIE-L* (1), Connective tissue amount (1), Cooking yield (1), Creatinine level (1), Daily feed intake (1), Estimated carcass lean content (1), Firmness (1), Gestation length (1), intestinal fat weight (1), Juiciness score (1), Loin muscle area (1), Loin muscle depth (1), Meat color-a (1), Meat color-L (1), Muscle moisture percentage (1), muscle protein percentage (1), Nonfunctional nipples (1), PH for Longissimus dorsi (1), pH for Semimembranosus (1), Phosphate level (1), Salmonella count in liver and spleen (1), Salmonella count in spleen (1), Toll-like receptor 2 level (1)

Conductivity 24 hours postmortem (ham) (3), Cooking loss (3), C3c concentration (2), Carcass weight (hot) (2), Ear area (2), Ear weight (2), Shear force (2), *Actinobacillus pleuropneumoniae* susceptibility (1), average daily gain (1), backfat above muscle dorsi (1), Backfat at last lumbar (1), Bacon depth (1), Belly meat content (1), Body weight (birth) (1), CD4-positive CD8-positive leukocyte percentage (1), Change in *Mycoplasma hyopneumoniae* antibody titer (1), CIE-a* (1), CIE-b* (1), Daily feed intake (1), Dressing percentage (1), Drip loss (1), Estimated carcass lean content (1), Feed conversion ratio (1), Feed intake (1), Front feet

15

135.79-136.72

16

9.91-10.51

		<p>conformation (1), Ham percentage (1), HDL/LDL ratio (1), Heart weight (1), Hind leg conformation (1), Interferon-gamma to interleukin-10 ratio (1), Litter size (1), Lung weight (1), Meat color-a (1), Meat color chroma (1), Segmented neutrophil number (1), Shoulder subcutaneous fat thickness (1), Subcutaneous fat area (1), Teat number (1), Toll-like receptor 9 level (1), Total number born alive (1)</p> <p>Conductivity 24 hours postmortem (ham) (3), Cooking loss (3), C3c concentration (2), Carcass weight (hot) (2), Ear area (2), Ear weight (2), Shear force (2), <i>Actinobacillus pleuropneumoniae</i> susceptibility (1), average daily gain (1), backfat above muscle dorsi (1), Backfat at last lumbar (1), Belly meat content (1), Body weight (birth) (1), CD4-positive CD8-positive leukocyte percentage (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), CIE-a* (1), CIE-b* (1), Daily feed intake (1), Dressing percentage (1), Drip loss (1), Estimated carcass lean content (1), Feed conversion ratio (1), Feed intake (1), Front feet conformation (1), Ham percentage (1), HDL/LDL ratio (1), Heart weight (1), Hemolytic complement activity (classical pathway) (1), Hind leg conformation (1), Interferon-gamma to interleukin-10 ratio (1), Lung weight (1), Meat color-a (1), Meat color chroma (1), Segmented neutrophil number (1), Shoulder subcutaneous fat thickness (1), Subcutaneous fat area (1), Teat number (1), Toll-like receptor 9 level (1), Total number born alive (1)</p> <p>Conductivity 24 hours postmortem (ham) (3), Cooking loss (3), C3c concentration (2), Carcass weight (hot) (2), Ear area (2), Ear weight (2), Shear force (2), <i>Actinobacillus pleuropneumoniae</i> susceptibility (1), average daily gain (1), backfat above muscle dorsi (1), Backfat at last lumbar (1), Belly meat content (1), Body weight (birth) (1), CD4-positive leukocyte percentage (1), CD4-positive CD8-positive leukocyte percentage (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), CIE-a* (1), CIE-b* (1), Daily feed intake (1), Dressing percentage (1), Drip loss (1), Estimated carcass lean content (1), Feed conversion ratio (1), Feed intake (1), Front feet conformation (1), Ham percentage (1), HDL/LDL ratio (1), Heart weight (1), Hemolytic complement</p>
16	16.25-16.79	
16	18.58-19.09	

		activity (classical pathway) (1), Hind leg conformation (1), Interferon-gamma to interleukin-10 ratio (1), Lung weight (1), Mean corpuscular hemoglobin concentration (1), Meat color-a (1), Meat color chroma (1), Segmented neutrophil number (1), Shoulder subcutaneous fat thickness (1), Subcutaneous fat area (1), Teat number (1), Toll-like receptor 9 level (1), Total number born alive (1)
16	84.06-84.78	Loin fat percentage (1), Muscle moisture percentage (1), Nonfunctional nipples (1), Scrotal/inguinal hernia (1) Eosinophil number (3), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Body weight (weaning) (2), Shear force (2), average daily gain (1), backfat at last rib (1), Cooking loss (1),
17	7.39-7.92	Creatinine level (1), Drip loss (1), Haptoglobin concentration (1), Intramuscular fat content (1), Maternal infanticide (1), Meat color-a (1), pH 24 hr post-mortem (loin) (1), Segmented neutrophil number (1), Thawing loss (1), Toll-like receptor 9 level (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), Ear weight (2), Eosinophil number (2), Average backfat thickness (1), Backfat at tenth rib (1), Body weight (slaughter) (1), Body weight
17	33.87-34.48	(weaning) (1), External fat on ham (1), Haptoglobin concentration (1), Mean corpuscular hemoglobin concentration (1), muscle protein percentage (1), Potassium level (1), Shoulder external fat weight (1), Teat number (1), Triglyceride level (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Ear weight (2), Eosinophil number (2), Adipocyte diameter
17	45.81-46.35	(1), Body weight (weaning) (1), Carcass length (1), CSFV antibody level (1), Fat-cuts percentage (1), Haptoglobin concentration (1), Hemoglobin (1), Interferon-gamma level (1), muscle protein percentage (1), Potassium level (1), Teat number (1), Triglyceride level (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Ear weight (2), Eosinophil number (2), Adipocyte diameter
17	46.71-47.34	(1), Body weight (weaning) (1), Carcass length (1), CSFV antibody level (1), Fat-cuts percentage (1), Haptoglobin concentration (1), Hemoglobin (1), Interferon-gamma level (1), muscle protein percentage (1), Potassium level (1), Teat number

		(1), Triglyceride level (1)
17	46.88-47.42	<i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Ear weight (2), Eosinophil number (2), Adipocyte diameter (1), Body weight (weaning) (1), Carcass length (1), CSFV antibody level (1), Fat-cuts percentage (1), Haptoglobin concentration (1), Hemoglobin (1), Interferon-gamma level (1), muscle protein percentage (1), Potassium level (1), Teat number (1), Triglyceride level (1)
17	46.94-47.69	<i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Ear weight (2), Eosinophil number (2), Adipocyte diameter (1), Body weight (weaning) (1), Carcass length (1), CSFV antibody level (1), Fat-cuts percentage (1), Haptoglobin concentration (1), Hemoglobin (1), Interferon-gamma level (1), muscle protein percentage (1), Potassium level (1), Teat number (1), Triglyceride level (1)
17	49.2-49.74	<i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), 45 min-24 h pH decline (1), Adipocyte diameter (1), Body weight (weaning) (1), Carcass length (1), Fat-cuts percentage (1), Haptoglobin concentration (1), Interferon-gamma level (1), Lymphocyte number (1), Sarcocystis miescheriana IgG levels (1), Teat number (1), Triglyceride level (1)
17	54.94-55.52	Meat color-L (4), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Meat color score (2), 45 min-24 h pH decline (1), Adipocyte diameter (1), Average glycolytic potential (1), Average lactate (1), Backfat at rump (1), Body weight (weaning) (1), Carcass length (1), CD4-positive CD8-positive leukocyte percentage (1), CIE-b* (1), Fat-cuts percentage (1), Haptoglobin concentration (1), Interferon-gamma level (1), Interferon-gamma to interleukin-10 ratio (1), Lymphocyte number (1), Sarcocystis miescheriana IgG levels (1), Shoulder subcutaneous fat thickness (1), Teat number (1), Triglyceride level (1)
17	59.94-60.69	Meat color-L (4), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Meat color score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Body weight (weaning) (1), Carcass length (1), CD4-positive

		CD8-positive leukocyte percentage (1), CIE-b* (1), Fat-cuts percentage (1), Fat protein content (1), Haptoglobin concentration (1), Interferon-gamma level (1), Interferon-gamma to interleukin-10 ratio (1), Lymphocyte number (1), pH 24 hr post-mortem (loin) (1), Sarcocystis miescheriana IgG levels (1), Subcutaneous fat area (1), Teat number (1), Triglyceride level (1) Meat color-L (4), <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Meat color score (2), 45 min-24 h pH decline (1), Average glycolytic potential (1), Average lactate (1), Body weight (weaning) (1), Carcass length (1), CD4-positive CD8-positive leukocyte percentage (1), CIE-b* (1), Fat-cuts percentage (1), Fat protein content (1), Haptoglobin concentration (1), Interferon-gamma level (1), Interferon-gamma to interleukin-10 ratio (1), Intramuscular fat content (1), Lymphocyte number (1), pH 24 hr post-mortem (loin) (1), Sarcocystis miescheriana IgG levels (1), Subcutaneous fat area (1), Teat number (1), Triglyceride level (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (2), backfat at last rib (2), Meat color-L (2), 45 min-24 h pH decline (1), average daily gain (1), Average glycolytic potential (1), Average lactate (1), Body weight (16 days) (1), Body weight (weaning) (1), Carcass length (1), CD4-positive CD8-positive leukocyte percentage (1), Fat-cuts percentage (1), Fat protein content (1), Haptoglobin concentration (1), Interferon-gamma level (1), Interferon-gamma to interleukin-10 ratio (1), Lymphocyte number (1), Meat color score (1), pH 45 minutes post mortem (1), Sarcocystis miescheriana IgG levels (1), Subcutaneous fat area (1), Teat number (1), Triglyceride level (1) <i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Diameter of type I muscle fibers (2), Total number born alive (2), Adipocyte diameter (1), average daily gain (1), backfat at last rib (1), Body weight (weaning) (1), Change in Mycoplasma hyopneumoniae antibody titer (1), Corpus luteum number (1), Diameter of muscle fibers (1), Diameter of type IIa muscle fibers (1), Litter size (1), Liver weight (1), Lymphocyte number (1), Mycoplasma hyopneumoniae antibody titer (1), Teat number (1), Tetanus
17	60.27-60.87	
17	64.43-64.99	
18	2.8-3.33	

		antibody titer (1), Toll-like receptor 9 level (1)
18	5.45-6.02	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), Spareribs weight (3), backfat at last rib (2), Backfat at tenth rib (2), Diameter of type I muscle fibers (2), Drip loss (2), Linoleic acid content (2), Total number born alive (2), Abdominal fat weight (1), Adipocyte diameter (1), average daily gain (1), Backfat at last lumbar (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body weight (end of test) (1), Body weight (weaning) (1), Carcass length (1), Carcass temperature (24 hr post-mortem) (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Conductivity 24 hours postmortem (ham) (1), Cooking loss (1), Corpus luteum number (1), Cortisol level (1), Cortisol level variations (1), Diameter of muscle fibers (1), Diameter of type IIa muscle fibers (1), Front leg conformation (1), Hind leg conformation (1), Liver weight (1), Loin eye area linear (1), Lymphocyte number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Palmitic acid content (1), pH 24 hr post-mortem (loin) (1), Teat number (1), Tetanus antibody titer (1), Toll-like receptor 9 level (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Lean meat percentage (2), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body weight (end of test) (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Corpus luteum number (1), Dressing percentage (1), Drip loss (1), Fat-cuts percentage (1), Front leg conformation (1), Hind leg conformation (1), Liver weight (1), Loin eye area linear (1), Lymphocyte number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Palmitic acid content (1), pH 24 hr post-mortem (loin) (1), Scrotal/inguinal hernia (1), Teat number (1), Tetanus antibody titer (1), Total number born alive (1)</p>
18	6.67-7.3	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Lean meat percentage (2), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body weight (end of test) (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Corpus luteum number (1), Dressing percentage (1), Drip loss (1), Fat-cuts percentage (1), Front leg conformation (1), Hind leg conformation (1), Liver weight (1), Loin eye area linear (1), Lymphocyte number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Palmitic acid content (1), pH 24 hr post-mortem (loin) (1), Scrotal/inguinal hernia (1), Teat number (1), Tetanus antibody titer (1), Total number born alive (1)</p>
18	6.87-7.44	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Lean meat percentage (2), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body</p>

18	7.31-8.11	<p>weight (end of test) (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Corpus luteum number (1), Dressing percentage (1), Drip loss (1), Fat-cuts percentage (1), Front leg conformation (1), Hind leg conformation (1), Liver weight (1), Loin eye area linear (1), Lymphocyte number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Palmitic acid content (1), pH 24 hr post-mortem (loin) (1), Scrotal/inguinal hernia (1), Teat number (1), Tetanus antibody titer (1), Total number born alive (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (3), Lean meat percentage (2), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Average backfat thickness (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Biceps brachii length (1), Body weight (birth) (1), Body weight (end of test) (1), Calcium level (1), Change in <i>Mycoplasma hyopneumoniae</i> antibody titer (1), CIE-a* (1), Corpus luteum number (1), Dressing percentage (1), Drip loss (1), Eicosapentaenoic acid content (1), Fat-cuts percentage (1), Fat protein content (1), Front leg conformation (1), Hind leg conformation (1), Loin eye area linear (1), Lymphocyte number (1), <i>Mycoplasma hyopneumoniae</i> antibody titer (1), Palmitic acid content (1), pH 24 hr post-mortem (loin) (1), Scrotal/inguinal hernia (1), Subcutaneous fat area (1), Teat number (1), Tetanus antibody titer (1), Total number born alive (1), Triglyceride level (1)</p>
18	22.09-22.86	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (3), Fat protein content (2), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body weight (end of test) (1), Calcium level (1), CIE-a* (1), Corpus luteum number (1), Drip loss (1), Fat-cuts percentage (1), Front leg conformation (1), Hind leg conformation (1), Loin eye area linear (1), Lymphocyte number (1), Melanoma susceptibility (1), Palmitic acid content (1), pH 24 hr post-mortem (loin) (1), Subcutaneous fat area (1), Teat number (1), Triglyceride level (1)</p>
18	23.02-23.6	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last</p>

		rib (3), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body weight (end of test) (1), Calcium level (1), CIE-a* (1), Corpus luteum number (1), Drip loss (1), Fat-cuts percentage (1), Fat protein content (1), Front leg conformation (1), Hind leg conformation (1), Loin eye area linear (1), Lymphocyte number (1), pH 24 hr post-mortem (loin) (1), Subcutaneous fat area (1), Teat number (1), Triglyceride level (1)
18	23.28-23.93	<i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (3), Linoleic acid content (2), Spareribs weight (2), Abdominal fat weight (1), Adipocyte diameter (1), Backfat at tenth rib (1), Backfat linear at tenth rib (1), Body weight (birth) (1), Body weight (end of test) (1), Calcium level (1), CIE-a* (1), Corpus luteum number (1), Drip loss (1), Fat-cuts percentage (1), Fat protein content (1), Front leg conformation (1), Hind leg conformation (1), Loin eye area linear (1), Lymphocyte number (1), pH 24 hr post-mortem (loin) (1), Subcutaneous fat area (1), Teat number (1), Triglyceride level (1)
18	45.12-45.66	<i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Backfat at tenth rib (2), Drip loss (2), Number of ribs (2), Red blood cell count (2), Average glycogen (1), Bicarbonate level (1), Blood pH (1), Body weight (birth) (1), Body weight (end of test) (1), Calcium level (1), Carbon dioxide level (1), Carcass length (1), Carcass weight (hot) (1), Change in tetanus antibody titer (1), CIE-a* (1), Corpus luteum number (1), Ear erectness (1), Fat protein content (1), Feed conversion ratio (1), Interferon-gamma level (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Platelet count (1), Potassium level (1), Teat number (1), Time spent feeding (1), Triglyceride level (1)
18	45.45-45.95	<i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Backfat at tenth rib (2), Drip loss (2), Number of ribs (2), Red blood cell count (2), Average glycogen (1), Bicarbonate level (1), Blood pH (1), Body weight (birth) (1), Body weight (end of

18	45.72-46.35	<p>test) (1), Calcium level (1), Carbon dioxide level (1), Carcass length (1), Carcass weight (hot) (1), Change in tetanus antibody titer (1), CIE-a* (1), Corpus luteum number (1), Ear erectness (1), Fat protein content (1), Feed conversion ratio (1), Interferon-gamma level (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Platelet count (1), Potassium level (1), Teat number (1), Time spent feeding (1), Triglyceride level (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Backfat at tenth rib (2), Drip loss (2), Number of ribs (2), Red blood cell count (2), Average glycogen (1), Bicarbonate level (1), Blood pH (1), Body weight (birth) (1), Body weight (end of test) (1), Calcium level (1), Carbon dioxide level (1), Carcass length (1), Carcass weight (hot) (1), Change in tetanus antibody titer (1), CIE-a* (1), Corpus luteum number (1), Ear erectness (1), Fat protein content (1), Feed conversion ratio (1), Interferon-gamma level (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), pH 24 hr post-mortem (loin) (1), pH 45 minutes post mortem (1), Platelet count (1), Potassium level (1), Teat number (1), Time spent feeding (1), Triglyceride level (1)</p>
18	46.12-46.65	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Backfat at tenth rib (2), Drip loss (2), Number of ribs (2), pH 24 hr post-mortem (loin) (2), Red blood cell count (2), Average glycogen (1), Bicarbonate level (1), Blood pH (1), Body weight (end of test) (1), Calcium level (1), Carbon dioxide level (1), Carcass length (1), Carcass weight (hot) (1), Change in tetanus antibody titer (1), Chronic pleuritis (1), CIE-a* (1), Cooking loss (1), Corpus luteum number (1), Ear erectness (1), Fat protein content (1), Feed conversion ratio (1), hematocrit (1), Interferon-gamma level (1), Mycoplasma hyopneumoniae antibody titer (1), Nonfunctional nipples (1), pH 45 minutes post mortem (1), Platelet count (1), Potassium level (1), Salmonella count in spleen (1), Teat number (1), Time spent feeding (1), Triglyceride level (1)</p>

18	46.42-46.98	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (2), Backfat at tenth rib (2), Drip loss (2), Number of ribs (2), pH 24 hr post-mortem (loin) (2), Red blood cell count (2), Average glycogen (1), Bicarbonate level (1), Blood pH (1), Body weight (end of test) (1), Calcium level (1), Carbon dioxide level (1), Carcass length (1), Carcass weight (hot) (1), Change in tetanus antibody titer (1), Chronic pleuritis (1), CIE-a* (1), Cooking loss (1), Corpus luteum number (1), Ear erectness (1), Fat protein content (1), Feed conversion ratio (1), hematocrit (1), Interferon-gamma level (1), Nonfunctional nipples (1), pH 45 minutes post mortem (1), Platelet count (1), Potassium level (1), Salmonella count in spleen (1), Teat number (1), Time spent feeding (1), Triglyceride level (1)</p> <p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (1), Corpus luteum number (1), Drip loss (1), Nonfunctional nipples (1), Teat number (1)</p>
18	53.41-54.03	<p><i>Actinobacillus pleuropneumoniae</i> susceptibility (3), backfat at last rib (1), Corpus luteum number (1), Drip loss (1), Nonfunctional nipples (1), Teat number (1)</p>

²The numbers in the parentheses represent the number of the QTL that be reported.