

Supplementary Table S1. Summary of sequence read mapping results via Bowtie2

Samples	Breed	Total number of reads	Paired align (concordantly)	Paired align (discordantly)	Non-paired align	Overall alignment rate
DRC01	Duroc	379,962,456 (100.00%)	238,245,498 (62.71%)	33,412,871 (8.79%)	43,862,454 (11.54%)	83.04%
DRC02	Duroc	432,524,218 (100.00%)	285,467,058 (66%)	59,325,977 (13.72%)	36,996,092 (8.55%)	88.27%
DRC03	Duroc	426,876,988 (100.00%)	290,072,332 (67.95%)	52,262,988 (12.24%)	34,639,748 (8.11%)	88.31%
DRC04	Duroc	430,621,434 (100.00%)	254,463,932 (59.09%)	79,347,347 (18.43%)	47,030,317 (10.92%)	88.44%
DRC05	Duroc	431,915,510 (100.00%)	276,071,102 (63.92%)	65,294,239 (15.12%)	41,268,609 (9.55%)	88.59%
DRC06	Duroc	379,909,912 (100.00%)	219,993,192 (57.9%)	76,499,982 (20.14%)	41,550,666 (10.94%)	88.98%
DRC07	Duroc	396,303,338 (100.00%)	328,029,392 (82.77%)	4,581,483 (1.16%)	13,401,569 (3.38%)	87.31%
DRC08	Duroc	424,807,700 (100.00%)	337,977,106 (79.56%)	6,999,477 (1.65%)	19,933,231 (4.69%)	85.90%
DRC09	Duroc	372,196,694 (100.00%)	184,818,778 (49.66%)	94,251,949 (25.32%)	49,355,636 (13.26%)	88.24%
DRC10	Duroc	364,212,370 (100.00%)	215,629,856 (59.21%)	65,026,880 (17.85%)	37,919,824 (10.41%)	87.47%
DRC11	Duroc	420,706,112 (100.00%)	245,952,436 (58.46%)	80,445,467 (19.12%)	46,011,147 (10.94%)	88.52%
DRC12	Duroc	400,420,020 (100.00%)	225,819,140 (56.4%)	84,795,715 (21.18%)	45,438,627 (11.35%)	88.92%
DRC13	Duroc	438,615,536 (100.00%)	251,641,422 (57.37%)	86,770,058 (19.78%)	50,158,023 (11.44%)	88.59%
DRC14	Duroc	354,575,920 (100.00%)	225,473,796 (63.59%)	56,281,334 (15.87%)	31,831,814 (8.98%)	88.44%
DRC15	Duroc	388,804,884 (100.00%)	258,255,410 (66.43%)	55,169,390 (14.19%)	33,272,515 (8.56%)	89.17%
DRC17	Duroc	362,543,904 (100.00%)	249,881,148 (68.93%)	45,327,290 (12.5%)	28,108,216 (7.75%)	89.18%
DRC16	Duroc	350,221,012 (100.00%)	192,157,652 (54.87%)	78,273,667 (22.35%)	41,300,404 (11.79%)	89.01%
DRC18	Duroc	351,387,088 (100.00%)	157,335,104 (44.77%)	102,618,996 (29.2%)	52,429,021 (14.92%)	88.90%
DRC19	Duroc	412,216,830 (100.00%)	347,180,916 (84.23%)	3,304,189 (0.8%)	13,007,696 (3.16%)	88.18%
DRC20	Duroc	379,637,548 (100.00%)	318,270,322 (83.83%)	4,324,495 (1.14%)	13,080,703 (3.45%)	88.42%
DRC21	Duroc	308,284,332 (100.00%)	268,580,880 (87.12%)	2,230,233 (0.72%)	8,309,521 (2.7%)	90.54%
DRC22	Duroc	310,837,424 (100.00%)	269,558,260 (86.72%)	2,308,532 (0.74%)	8,135,560 (2.62%)	90.08%
DRC23	Duroc	351,342,118 (100.00%)	307,383,408 (87.49%)	2,449,989 (0.7%)	9,185,246 (2.61%)	90.80%
DRC24	Duroc	327,445,612 (100.00%)	282,502,606 (86.28%)	2,296,922 (0.7%)	8,493,507 (2.59%)	89.57%
DRC25	Duroc	327,904,008 (100.00%)	285,435,688 (87.05%)	2,584,111 (0.79%)	8,798,909 (2.68%)	90.52%
DRC26	Duroc	325,732,212 (100.00%)	274,984,682 (84.42%)	2,787,635 (0.86%)	8,611,444 (2.64%)	87.92%
WDB01	Wild boar	443,370,388 (100.00%)	365,680,368 (82.47%)	5,093,691 (1.15%)	16,642,986 (3.75%)	87.38%
WDB02	Wild boar	418,519,902 (100.00%)	348,444,522 (83.26%)	3,153,439 (0.75%)	14,565,101 (3.48%)	87.49%
WDB03	Wild boar	417,246,606 (100.00%)	347,792,522 (83.36%)	3,187,379 (0.76%)	14,528,126 (3.48%)	87.60%
WDB04	Wild boar	419,793,520 (100.00%)	342,024,094 (81.47%)	3,654,863 (0.87%)	16,896,706 (4.03%)	86.37%
WDB05	Wild boar	403,508,254 (100.00%)	333,141,742 (82.56%)	1,806,557 (0.45%)	14,449,498 (3.58%)	86.59%
WDB06	Wild boar	435,508,630 (100.00%)	350,896,874 (80.57%)	2,101,546 (0.48%)	16,095,144 (3.7%)	84.75%

WDB07	Wild boar	433,878,206 (100.00%)	344,203,760 (79.33%)	5,527,362 (1.27%)	20,714,090 (4.77%)	85.38%
WDB08	Wild boar	433,750,864 (100.00%)	350,516,072 (80.81%)	2,493,528 (0.57%)	16,936,512 (3.9%)	85.29%
WDB09	Wild boar	430,194,468 (100.00%)	349,032,536 (81.13%)	4,194,417 (0.98%)	18,116,912 (4.21%)	86.32%
WDB10	Wild boar	422,633,306 (100.00%)	343,210,748 (81.21%)	2,283,261 (0.54%)	14,758,621 (3.49%)	85.24%
LDR01	Landrace	327,963,242 (100.00%)	284,148,166 (86.64%)	2,743,407 (0.84%)	8,701,697 (2.65%)	90.13%
LDR02	Landrace	326,204,388 (100.00%)	277,601,706 (85.1%)	7,284,337 (2.23%)	10,557,271 (3.24%)	90.57%
LDR03	Landrace	332,203,902 (100.00%)	288,224,972 (86.76%)	3,685,628 (1.11%)	9,464,780 (2.85%)	90.72%
LDR04	Landrace	345,708,096 (100.00%)	292,140,142 (84.5%)	9,140,931 (2.64%)	12,172,458 (3.52%)	90.67%
LDR05	Landrace	355,525,994 (100.00%)	306,776,924 (86.28%)	5,590,708 (1.57%)	10,414,418 (2.93%)	90.79%
LDR06	Landrace	335,544,768 (100.00%)	287,153,812 (85.58%)	4,135,725 (1.23%)	10,230,992 (3.05%)	89.86%
LDR07	Landrace	323,931,824 (100.00%)	276,749,676 (85.43%)	4,442,820 (1.37%)	9,827,855 (3.03%)	89.84%
LDR08	Landrace	338,310,130 (100.00%)	244,994,652 (72.42%)	22,511,952 (6.65%)	32,642,143 (9.65%)	88.72%
LDR09	Landrace	328,367,780 (100.00%)	243,931,056 (74.29%)	21,346,710 (6.5%)	28,939,765 (8.81%)	89.60%
LDR10	Landrace	302,938,908 (100.00%)	217,058,050 (71.65%)	21,416,423 (7.07%)	30,838,216 (10.18%)	88.90%
LDR11	Landrace	301,513,518 (100.00%)	167,131,020 (55.43%)	36,263,766 (12.03%)	49,635,358 (16.46%)	83.92%
LDR12	Landrace	297,709,064 (100.00%)	129,051,790 (43.34%)	51,067,620 (17.15%)	67,455,448 (22.66%)	83.16%
LDR13	Landrace	332,943,476 (100.00%)	260,906,860 (78.37%)	15,443,541 (4.64%)	22,666,135 (6.81%)	89.81%
LDR14	Landrace	322,384,718 (100.00%)	233,801,440 (72.52%)	18,001,601 (5.58%)	27,801,225 (8.62%)	86.73%
YKS01	Yorkshire	437,075,804 (100.00%)	356,548,806 (81.58%)	1,466,132 (0.34%)	14,373,647 (3.29%)	85.20%
YKS02	Yorkshire	433,671,492 (100.00%)	349,459,020 (80.58%)	1,462,770 (0.34%)	15,270,418 (3.52%)	84.44%
YKS03	Yorkshire	421,654,852 (100.00%)	340,456,016 (80.74%)	2,590,738 (0.61%)	16,919,993 (4.01%)	85.37%
YKS04	Yorkshire	418,666,128 (100.00%)	344,925,126 (82.38%)	1,616,618 (0.39%)	13,636,726 (3.26%)	86.03%
YKS05	Yorkshire	428,130,386 (100.00%)	345,109,124 (80.61%)	4,190,594 (0.98%)	19,192,105 (4.48%)	86.07%
YKS06	Yorkshire	430,293,866 (100.00%)	359,466,198 (83.54%)	1,833,271 (0.43%)	14,002,841 (3.25%)	87.22%
YKS07	Yorkshire	671,036,258 (100.00%)	551,036,298 (82.12%)	5,281,327 (0.79%)	26,208,951 (3.91%)	86.81%
YKS08	Yorkshire	411,119,624 (100.00%)	341,692,338 (83.12%)	1,505,808 (0.37%)	13,201,456 (3.21%)	86.69%
YKS15	Yorkshire	442,784,174 (100.00%)	346,812,832 (78.33%)	1,850,519 (0.42%)	16,987,820 (3.84%)	82.58%
YKS16	Yorkshire	371,287,532 (100.00%)	281,754,872 (75.88%)	2,162,817 (0.58%)	16,639,568 (4.48%)	80.95%
YKS09	Yorkshire	317,653,962 (100.00%)	276,538,614 (87.05%)	2,628,503 (0.83%)	8,945,027 (2.82%)	90.70%
YKS10	Yorkshire	339,820,584 (100.00%)	287,058,268 (84.48%)	6,997,944 (2.06%)	11,034,708 (3.25%)	89.78%
YKS11	Yorkshire	351,288,112 (100.00%)	297,061,500 (84.56%)	7,090,651 (2.02%)	12,323,309 (3.51%)	90.09%
YKS12	Yorkshire	341,544,022 (100.00%)	269,254,168 (78.83%)	21,488,477 (6.29%)	15,690,652 (4.59%)	89.72%
YKS13	Yorkshire	333,812,260 (100.00%)	277,778,240 (83.21%)	12,352,098 (3.7%)	12,871,050 (3.86%)	90.77%
YKS14	Yorkshire	301,701,186 (100.00%)	255,270,036 (84.61%)	5,043,780 (1.67%)	9,859,596 (3.27%)	89.55%
KNP05	Korean native pig	438,766,360 (100.00%)	354,497,610 (80.79%)	4,555,224 (1.04%)	18,768,879 (4.28%)	86.11%
KNP06	Korean native pig	434,645,178 (100.00%)	361,751,438 (83.23%)	2,344,772 (0.54%)	14,653,598 (3.37%)	87.14%
KNP07	Korean native pig	435,381,244 (100.00%)	362,328,548 (83.22%)	1,278,982 (0.29%)	14,129,237 (3.25%)	86.76%
KNP08	Korean native pig	385,335,770 (100.00%)	318,246,790 (82.59%)	2,077,443 (0.54%)	14,494,018 (3.76%)	86.89%

KNP09	Korean native pig	410,414,224 (100.00%)	342,427,948 (83.44%)	2,143,552 (0.52%)	13,843,242 (3.37%)	87.33%
KNP10	Korean native pig	427,048,086 (100.00%)	353,758,426 (82.84%)	2,468,376 (0.58%)	15,689,376 (3.67%)	87.09%
KNP11	Korean native pig	437,972,678 (100.00%)	357,663,572 (81.66%)	5,412,598 (1.24%)	18,704,613 (4.27%)	87.17%
KNP12	Korean native pig	408,713,856 (100.00%)	338,621,614 (82.85%)	1,451,813 (0.36%)	13,055,345 (3.19%)	86.40%
KNP13	Korean native pig	485,254,468 (100.00%)	395,933,822 (81.59%)	1,665,611 (0.34%)	16,516,730 (3.4%)	85.34%
KNP14	Korean native pig	423,153,664 (100.00%)	337,592,408 (79.78%)	7,846,809 (1.85%)	21,308,064 (5.04%)	86.67%
KNP02	Jeju native	425,718,326 (100.00%)	333,114,200 (78.25%)	22,596,310 (5.31%)	25,264,820 (5.93%)	89.49%
KNP03	Jeju native	397,796,462 (100.00%)	304,642,014 (76.58%)	24,101,884 (6.06%)	27,244,156 (6.85%)	89.49%
KNP04	Jeju native	428,023,934 (100.00%)	341,232,764 (79.72%)	18,491,487 (4.32%)	23,913,601 (5.59%)	89.63%
KNP01	Jeju native	426,005,368 (100.00%)	354,222,260 (83.15%)	7,011,144 (1.65%)	16,292,553 (3.82%)	88.62%
MNP13	Minipig	315,692,522 (100.00%)	255,828,990 (81.04%)	12,156,170 (3.85%)	16,138,110 (5.11%)	90%
MNP14	Minipig	306,881,332 (100.00%)	186,040,214 (60.62%)	36,751,624 (11.98%)	46,312,402 (15.09%)	87.69%
MNP15	Minipig	333,583,160 (100.00%)	288,941,066 (86.61%)	3,764,007 (1.13%)	9,254,403 (2.77%)	90.52%
MNP16	Minipig	335,843,694 (100.00%)	275,826,416 (82.13%)	11,068,413 (3.3%)	14,256,211 (4.24%)	89.67%
MNP01	Minipig	435,547,132 (100.00%)	183,124,794 (42.04%)	140,942,178 (32.36%)	64,353,960 (14.78%)	89.18%
MNP02	Minipig	450,265,698 (100.00%)	156,689,494 (34.8%)	168,259,685 (37.37%)	75,697,239 (16.81%)	88.98%
MNP03	Minipig	445,090,090 (100.00%)	383,342,282 (86.13%)	1,010,524 (0.23%)	12,623,045 (2.84%)	89.19%
MNP04	Minipig	436,321,082 (100.00%)	206,874,456 (47.42%)	125,340,659 (28.73%)	57,986,829 (13.29%)	89.43%
MNP05	Minipig	414,768,090 (100.00%)	168,665,630 (40.66%)	138,557,669 (33.41%)	62,625,407 (15.1%)	89.17%
MNP06	Minipig	430,561,950 (100.00%)	158,362,460 (36.78%)	152,895,117 (35.51%)	70,564,760 (16.39%)	88.68%
MNP07	Minipig	426,878,426 (100.00%)	180,080,950 (42.18%)	137,684,661 (32.25%)	62,839,194 (14.72%)	89.16%
MNP08	Minipig	444,449,654 (100.00%)	383,460,324 (86.28%)	1,125,330 (0.25%)	12,663,447 (2.85%)	89.38%
MNP09	Minipig	415,972,364 (100.00%)	356,794,924 (85.78%)	892,004 (0.21%)	12,320,490 (2.96%)	88.95%
MNP10	Minipig	416,982,102 (100.00%)	360,983,630 (86.57%)	905,817 (0.22%)	11,184,440 (2.68%)	89.47%
MNP11	Minipig	442,133,680 (100.00%)	153,807,682 (34.79%)	164,663,678 (37.24%)	74,939,188 (16.95%)	88.98%
MNP12	Minipig	441,581,506 (100.00%)	379,735,524 (85.99%)	1,115,373 (0.25%)	12,730,699 (2.88%)	89.13%
BKS11	Birkshire	304,804,588 (100.00%)	65,906,562 (21.62%)	144,737,612 (47.49%)	61,515,843 (20.18%)	89.29%
BKS05	Birkshire	253,047,908 (100.00%)	78,586,796 (31.06%)	101,033,547 (39.93%)	44,327,056 (17.52%)	88.50%
BKS06	Birkshire	271,420,318 (100.00%)	117,338,580 (43.23%)	86,440,551 (31.85%)	38,707,781 (14.26%)	89.34%
BKS07	Birkshire	307,202,928 (100.00%)	141,597,802 (46.09%)	90,380,333 (29.42%)	41,831,835 (13.62%)	89.13%
BKS08	Birkshire	443,640,008 (100.00%)	221,894,176 (50.02%)	117,602,030 (26.51%)	57,117,961 (12.87%)	89.40%
BKS09	Birkshire	311,141,122 (100.00%)	129,317,814 (41.57%)	100,470,911 (32.29%)	46,193,450 (14.85%)	88.70%
BKS10	Birkshire	288,013,648 (100.00%)	125,210,194 (43.47%)	89,592,866 (31.11%)	42,508,333 (14.76%)	89.34%
BKS12	Birkshire	278,043,466 (100.00%)	131,722,514 (47.38%)	77,323,131 (27.81%)	37,328,670 (13.43%)	88.61%
BKS13	Birkshire	263,960,864 (100.00%)	119,819,700 (45.4%)	74,789,318 (28.33%)	37,518,166 (14.21%)	87.94%
BKS14	Birkshire	265,641,094 (100.00%)	110,618,014 (41.64%)	81,852,206 (30.81%)	40,390,763 (15.21%)	87.66%
BKS01	Birkshire	399,228,636 (100.00%)	338,178,532 (84.71%)	7,947,281 (1.99%)	11,343,508 (2.84%)	89.54%
BKS02	Birkshire	425,298,438 (100.00%)	358,996,650 (84.41%)	2,914,690 (0.69%)	11,415,629 (2.68%)	87.78%

BKS03	Birkshire	438,300,758 (100.00%)	361,211,588 (82.41%)	4,850,063 (1.11%)	12,016,583 (2.74%)	86.26%
BKS04	Birkshire	388,558,024 (100.00%)	333,915,538 (85.94%)	4,759,621 (1.22%)	9,900,244 (2.55%)	89.71%
Total		47,222,918,104 (100%)	34,570,329,896 (73.21%)	3,698,579,893 (7.83%)	3,059,269,314 (6.48%)	87.38%

Supplementary Table S2. List of genes containing nsSNPs in the Berkshire selective-sweep region. * indicates the genes that were predicted to have significantly functional impacts by nsSNPs by SIFT and Polyphen-2.

Ensembl Gene	Gene Symbol	Chr	Gene Start	Gene End	# nsSNP	Average of Allele Freq	P-value
ENSSSCG00000014835*	C2CD3	9	9,183,639	9,349,502	36	0.543	0.001
ENSSSCG00000003965*	CCDC30	6	156,246,761	156,329,909	25	0.270	0.003
ENSSSCG00000005948*	TG	4	8,078,824	8,424,733	17	0.214	0.011
ENSSSCG00000003941*	SZT2	6	155,177,961	155,210,075	14	0.367	0.017
ENSSSCG00000000943*	OTOGL	5	105,853,485	106,003,580	12	0.295	0.022
ENSSSCG000000008991*	FRAS1	8	77,753,890	78,205,882	11	0.341	0.026
ENSSSCG000000021619*	OVCH2	9	2,307,953	2,321,197	11	0.198	0.026
ENSSSCG000000005441*	IKBKAP	1	280,440,242	280,511,374	9	0.337	0.036
ENSSSCG000000017758*	SPAG5	12	46,812,355	46,833,267	9	0.425	0.036
ENSSSCG000000007508*	ZBP1	17	65,136,536	65,146,713	9	0.337	0.036
ENSSSCG000000004657*	CEP152	1	136,701,249	136,802,158	8	0.487	0.045
ENSSSCG000000030012*	OLFML1	9	2,617,574	2,642,633	8	0.688	0.045
ENSSSCG000000016885*	ITGA1	16	33,941,071	34,137,391	8	0.170	0.045
ENSSSCG000000011136	FAM208B	10	71,314,354	71,352,773	7	0.036	0.057
ENSSSCG000000004306	ORC3	1	62,675,311	62,787,986	6	0.232	0.073
ENSSSCG000000008745	PROM1	8	10,866,626	10,960,945	6	0.357	0.073
ENSSSCG000000024136	AMPH	9	119,651,625	119,751,221	6	0.036	0.073
ENSSSCG000000029907	ABCA13	9	148,690,451	148,904,043	5	0.250	0.093
ENSSSCG000000016618	CPED1	18	27,260,302	27,540,733	5	0.214	0.093
ENSSSCG000000005952	LRRC6	4	8,570,714	8,644,068	4	0.491	0.126
ENSSSCG000000003200	NUP62	6	50,702,794	50,704,392	4	0.491	0.126
ENSSSCG000000017165	USP36	12	3,353,931	3,388,494	4	0.080	0.126
ENSSSCG000000017284	GH	12	15,056,359	15,058,095	4	0.723	0.126
ENSSSCG000000007391	MATN4	17	53,223,744	53,233,619	4	0.330	0.126
ENSSSCG000000004156	IFNGR1	1	30,388,405	30,408,868	3	0.095	0.177
ENSSSCG000000005934	TRAPPC9	4	2,565,801	3,021,011	3	0.071	0.177
ENSSSCG000000002653	JPH3	6	1,766,996	1,855,700	3	0.607	0.177
ENSSSCG000000001724	MEP1A	7	48,248,958	48,286,177	3	0.036	0.177
ENSSSCG000000014650	OR52E4	9	4,374,996	4,375,937	3	0.845	0.177
ENSSSCG000000014655	OR52N1	9	4,426,425	4,427,387	3	0.881	0.177
ENSSSCG000000028790	ANKRD16	10	71,224,764	71,238,037	3	0.036	0.177
ENSSSCG000000017282	SCN4A	12	15,008,606	15,037,441	3	0.655	0.177
ENSSSCG000000012071	IGSF5	13	213,446,785	213,480,182	3	0.655	0.177
ENSSSCG000000009646	ADAM7	14	9,524,266	9,564,974	3	0.881	0.177
ENSSSCG000000016794	MYO10	16	6,351,995	6,492,682	3	0.405	0.177
ENSSSCG000000007520	GNAS	17	66,304,009	66,423,430	3	0.191	0.177
ENSSSCG000000029715	OLFM1	1	308,316,069	308,353,293	2	0.357	0.253
ENSSSCG000000030738	IGKV-5	3	59,949,725	59,950,469	2	0.571	0.253
ENSSSCG000000030927	IGKV-7	3	59,962,485	59,963,229	2	0.500	0.253
ENSSSCG000000008213	CD8B	3	60,577,395	60,679,564	2	0.107	0.253
ENSSSCG000000005975	MTSS1	4	15,698,066	15,757,625	2	0.036	0.253

ENSSSCG0000002655	MAP1LC3B	6	2,007,809	2,029,003	2	0.125	0.253
ENSSSCG0000003968	RIMKLA	6	156,335,506	156,349,627	2	0.321	0.253
ENSSSCG00000029227	LDB2	8	11,290,602	11,543,431	2	0.250	0.253
ENSSSCG00000030030	FBXO18	10	71,184,192	71,212,375	2	0.393	0.253
ENSSSCG00000017764	KIAA0100	12	46,844,697	46,878,335	2	0.500	0.253
ENSSSCG00000028465	ELAC2	12	60,096,783	60,116,394	2	0.232	0.253
ENSSSCG00000011511	FRMD4B	13	55,733,974	55,875,266	2	0.554	0.253
ENSSSCG00000021698	RRP1B	13	216,628,848	216,647,523	2	0.089	0.253
ENSSSCG00000017073	FAM114A2	16	75,043,882	75,078,339	2	0.054	0.253
ENSSSCG00000004158	IL22RA2	1	30,464,342	30,484,047	1	0.143	0.385
ENSSSCG00000012997	POLA2	2	6,054,435	6,081,792	1	0.036	0.385
ENSSSCG00000006911	TGFBR3	4	136,671,290	136,891,883	1	0.143	0.385
ENSSSCG00000000778	CPNE8	5	72,799,795	73,101,239	1	0.321	0.385
ENSSSCG00000003967	ZMYND12	6	156,366,598	156,392,133	1	0.821	0.385
ENSSSCG00000028433	DUS4L	9	118,032,152	118,044,547	1	0.036	0.385
ENSSSCG00000010808	RGS18	10	3,286,932	3,305,931	1	0.107	0.385
ENSSSCG00000027207	GPATCH2	10	9,647,962	9,812,845	1	0.321	0.385
ENSSSCG00000009283	TNFRSF19	11	1,860,878	1,955,969	1	0.071	0.385
ENSSSCG00000017279	ERN1	12	14,918,934	14,955,053	1	0.929	0.385
ENSSSCG00000017280	ICAM2	12	14,963,914	14,982,966	1	0.036	0.385
ENSSSCG00000017300	MRC2	12	15,951,695	16,010,358	1	0.964	0.385
ENSSSCG00000017717	UNC45B	12	41,508,324	41,542,495	1	0.571	0.385
ENSSSCG00000017998	GLP2R	12	57,438,490	57,493,322	1	0.107	0.385
ENSSSCG00000023557	CCRL2	13	32,566,384	32,568,453	1	0.107	0.385
ENSSSCG00000024623	USP25	13	190,890,292	191,009,147	1	0.143	0.385
ENSSSCG00000009645	ADAMDEC1	14	9,497,814	9,512,872	1	0.143	0.385
ENSSSCG00000010144	ACTN2	14	58,645,069	58,717,200	1	0.036	0.385
ENSSSCG00000007256	SPAG4L	17	41,445,512	41,465,061	1	0.036	0.385
ENSSSCG00000007478	ATP9A	17	59,377,658	59,514,268	1	0.786	0.385
ENSSSCG00000007522	CTSZ	17	66,511,905	66,519,788	1	0.179	0.385
ENSSSCG00000007525	SLMO2	17	66,545,461	66,555,496	1	0.250	0.385
ENSSSCG00000028088	ZC3HAV1L	18	11,074,253	11,103,197	1	0.036	0.385

Supplementary Table S3. Gene ontology network information about genes related to nsSNPs in Berkshire selective-sweep regions by DAVID

GO Term	Associated Genes Found	# Genes	Term P-value (Bonferroni Correction)	Group P-value (Bonferroni Correction)
phospholipid transport	ABCA13,ATP9A, SLMO2	3	0.0017 (0.0216)	0.0017 (0.0050)
microspike assembly	ACTN2,MTSS1	2	0.0001 (0.0020)	0.0006 (0.0023)
epithelial cell differentiation involved in kidney development	MTSS1,PROM1	2	0.0097 (0.0387)	
nephron tubule epithelial cell differentiation	MTSS1,PROM1	2	0.0016 (0.0221)	
centriole replication	C2CD3,CEP152	2	0.0045 (0.0405)	0.0017 (0.0035)
protein localization to cytoskeleton	C2CD3,SPAG5	2	0.0083 (0.0416)	
protein localization to centrosome	C2CD3,SPAG5	2	0.0030 (0.0359)	
protein localization to microtubule cytoskeleton	C2CD3,SPAG5	2	0.0067 (0.0467)	
centriole assembly	C2CD3,CEP152	2	0.0055 (0.0442)	
regulation of mitophagy	MAP1LC3B,USP36	2	0.0111 (0.0111)	0.0111 (0.0111)
response to prostaglandin	GNAS,TGFBR3	2	0.0079 (0.0474)	0.0005(0.0023)
response to prostaglandin E	GNAS,TGFBR3	2	0.0042 (0.0417)	
cardiac epithelial to mesenchymal transition	OLFM1,TGFBR3	2	0.0036 (0.0392)	
cellular response to glucagon stimulus	GLP2R,GNAS	2	0.0106 (0.0213)	
tyrosine phosphorylation of Stat3 protein	GH,IL22RA2	2	0.0111 (0.0111)	0.0111 (0.0111)
regulation of tyrosine phosphorylation of Stat3 protein	GH,IL22RA2	2	0.0102 (0.0305)	

Supplementary Figure S1. Functional classification of total single-nucleotide polymorphisms (SNP) from whole-genome sequences of 110 pigs

