

Supplementary Table S3: Summary of CpG gains between LFP and HFP animals

	SNP Position	Reference	HFP Most Frequent Allele	LFP Most Frequent Allele	Functional Annotation	Gene
1	chr1:87002807	T	T	C	Distal Intergenic	CBLB
2	chr2:78408648	T	C	T	Distal Intergenic	ANKRD33B
3	chr2:99738795	A	C	A	Distal Intergenic	LAMA1
4	chr3:15068924	T	C	T	Distal Intergenic	BMP2
5	chr3:71792365	T	T	C	Distal Intergenic	FAXC
6	chr3:77545754	T	T	C	Distal Intergenic	TBX18
7	chr5:24443870	T	C	T	Distal Intergenic	NA
8	chr5:37694563	T	T	C	Distal Intergenic	ZNF410
9	chr5:55494514	T	T	C	Distal Intergenic	NA
10	chr7:35989796	T	C	T	Distal Intergenic	NA
11	chr8:5143880	T	T	C	Distal Intergenic	RXRG
12	chr8:5145917	T	T	C	Distal Intergenic	RXRG
13	chr8:27836602	G	G	C	Distal Intergenic	FOXD3
14	chr9:14090220	T	T	C	Distal Intergenic	P3H2
15	chr9:14090249	T	T	C	Distal Intergenic	P3H2
16	chr9:14877003	T	C	T	Distal Intergenic	SST
17	chr12:18193007	T	T	C	Distal Intergenic	NA
18	chr12:18596350	T	T	C	Distal Intergenic	NA
19	chr13:1897361	T	T	C	Distal Intergenic	HDAC3
20	chr13:2089538	T	C	T	Distal Intergenic	MIR1702
21	chr13:2089560	T	C	T	Distal Intergenic	MIR1702
22	chr14:7189183	T	T	C	Distal Intergenic	HS3ST4
23	chr21:462933	T	T	C	Distal Intergenic	CAMTA1
24	chr28:2219879	T	C	T	Distal Intergenic	NR1D1
25	chr28:4786822	T	C	T	Distal Intergenic	NA
26	chr10:19753562	T	C	T	Downstream	FAM96A
27	chr20:11388591	T	T	C	Downstream	NA
28	chr2:149406250	T	C	T	Exon	NA
29	chr18:4710902	T	C	T	Exon	UNC13D
30	chr1:14110344	T	T	C	Intron	ATXN7L1
31	chr1:195929230	T	T	C	Intron	CHRD12
32	chr2:90498185	T	C	T	Intron	NA
33	chr4:17481020	T	T	C	Intron	PASD1
34	chr4:69645751	A	A	C	Intron	SMIM14
35	chr5:21817998	T	C	T	Intron	NA
36	chr5:37703833	T	T	C	Intron	ZNF410
37	chr5:58418652	T	C	T	Intron	FERMT2
38	chr13:6756471	T	C	T	Intron	NA
39	chr14:2878952	T	T	C	Intron	ELFN1
40	chr19:8191401	T	C	T	Intron	DHRS11
41	chr20:10635671	G	G	C	Intron	NA
42	chr21:361391	T	C	T	Intron	VAMP3
43	chr21:690769	T	T	C	Intron	NPHP4

44	chr1:23414609	G	G	C	Promoter	CPED1
45	chr2:15950660	G	G	C	Promoter	MASTL
46	chr2:47027018	T	T	C	Promoter	EEPD1
47	chr5:58241261	T	T	C	Promoter	NID2
48	chr8:3872896	T	T	C	Promoter	NOS1AP
49	chr9:12701712	T	C	T	Promoter	APOD
50	chr10:20099941	T	C	T	Promoter	NA
51	chr12:7051566	T	C	T	Promoter	CACNA1D
52	chr14:12336151	T	C	T	Promoter	NA
53	chr15:10916349	T	C	T	Promoter	NA
54	chr16:274442	T	T	C	Promoter	NA
55	chr20:10683918	T	C	T	Promoter	WFDC2L
56	chr27:4420187	T	T	C	Promoter	CISD3

Number of C	0	25	31
Number of T	50	26	24
Percentage of C	0.0%	49.0%	56.4%