

## **SUPPLEMENTARY INFORMATION**

### **Heritability Estimated Using 50K SNPs Indicates Missing Heritability Problem in Holstein Breeding**

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**Supplementary Table 1.** Numbers of genic and intergenic SNPs on each chromosome

<b>Chromosome</b>	<b>Genic</b>	<b>Intergenic</b>
1	745	1,948
2	690	1,487
3	684	1,301
4	717	1,267
5	635	1,080
6	603	1,455
7	549	1,236
8	611	1,302
9	450	1,180
10	644	1,095
11	616	1,158
12	300	1,057
13	479	951
14	425	1022
15	446	921
16	433	873
17	427	850
18	409	641
19	479	585
20	290	976
21	317	805
22	427	590
23	302	554
24	281	731
25	299	480
26	311	579
27	193	604
28	294	482
29	241	592

SNP, single nucleotide polymorphism.