

**TABLE S3**

**Genomic locations (Chromosome, location of first and last SNP in windows and center SNP of window with greatest CLL) of SNP windows with significant CLL ( $P < 0.25$ , genome wide) in all five dairy breeds**

Chromosome	Start SNP	End SNP	Location of Greatest CLL (bp)
1	69915599	70265608	70163287
1	109935324	111953500	111188614
2	64218856	64792978	64640561
4	8879649	10574834	10541198
5	27989563	29195425	28624790
5	33793313	35644135	33834359
5	73062135	74052334	73634208
5	99515505	100475202	99998862
5	105874101	107789222	107583301
6	63097961	65672360	65061093
7	26478900	28581752	26567785
8	102483790	103230023	102680398
8	109596861	110698964	110444685
9	24700523	26153478	26054472
9	60476473	60969754	60819485
9	77364393	78193820	77629138
9	98619640	100150571	99619205
10	105580939	106191883	105996383
11	17998250	19466646	18795224
11	70453484	70881571	70566731
13	61085727	63245599	61619058
15	6488096	9992399	7426452
15	25296841	26542437	25767576
15	35603443	37051045	36632901
15	38723497	39760998	39618626
15	64604389	65208287	65146035
16	22886605	23784394	23133906
18	50146867	51734876	51189694
19	4854373	5614645	5075583
19	46014590	47984865	47897746
20	60977058	62089345	61351502
20	71369712	71530743	71369875
21	33032960	33844730	33251422
21	33852145	35259414	35149769
23	50641847	51839638	51514190
24	16734137	17601902	16734288
24	44978575	45664478	45090507
24	59589744	60914533	60272305
26	3901836	4624902	4494144

27	27597833	28549227	27942513
27	43906621	45458022	45238475
29	7145531	9221822	7628919
29	14798487	15536124	15359492
29	42351793	43111752	42690175