Table S1. L1-BT insertion at the ASIP locus, expression of transcript 2C and genotypes at the coat color locus MC1R in different cattle breeds and crosses.

Breed/Cross	Sample	L1-BT insertion		MC1R
	-	genomic detection	expression 2C	$\frac{\text{genotype}^2}{\text{E}^{\text{D}}/\text{E}^{\text{D}}}$
Holstein	#1	no	no	$E^{D}/E^{D}$
	#2	no	no	$E^{D}\!/E^{D}$
	#3	no	no	$E^{D}/E^{D}$
	#4	no	no	$E^{D}/E^{D}$
	#5	no	no	$E^{D}/E^{D}$
Japanese Black	#1	heterozygous	yes	$\frac{E/E^3}{E/E^3}$
	#2	heterozygous	yes	$E^{D}/E^{D}$
	#3	heterozygous	yes	$E/E^3$
	#4	heterozygous	yes	$E^{D}/E^{D}$
	#5	heterozygous	yes	$E/E^3$
	#6	heterozygous	•	$E^{D}/E^{D}$
Charolais	#1	no	yes	E <sup>D</sup> /e
	#2		no	E /e E <sup>D</sup> /e
	#2	heterozygous	yes	E /e E <sup>D</sup> /e
		no	no	
	#4 #5	no	no	e/e
	#5	heterozygous	yes	E <sup>D</sup> /e
	#6	no 1	no	E <sup>D</sup> /e
Crossbred	#1	no <sup>1</sup>	no	n/d
(Jap. Black x diverse)	#2	no	no	E/E <sup>D</sup>
	#3	no	no	E/E
	#4	heterozygous	yes	$E/E^3$
	#5	no	no	E <sup>D</sup> /e
Charolais x Holstein	#1	no		
(F <sub>2</sub> -offspring)	#2	no		
	#3	no	n/d	n/d
	#4	no		
	#5	no		
Aberdeen Angus	#1	heterozygous		
	#2	no		
	#3	heterozygous	n/d	n/d
	#4	heterozygous		
	#5	heterozygous		
German Black and White	#1	no		
	#2	no		
	#3	no	n/d	n/d
	#4	no		
	#5	no		
Galloway	#1	heterozygous		
	#2	heterozygous		
	#3	no	n/d	n/d
	#3 #4	heterozygous	11/ (1	11/ U
	#4 #5	• •		
		heterozygous		
White Blue Belgian	#6	no no	n/d	n/d
	#1	no	n/d	n/d
	#2	no		

 <sup>1:</sup> A specific amplicon was received for the 5' junction, but no 3' junction and no expression of transcript 2C was observed.
2: MC1R genotypes according to [26]; E: wild type; E<sup>D</sup> and e: mutant alleles
3: These animals possessed the proposed genetic requirements for brindle coat color (at least one MC1R wild type allele and expression of L1-BT-derived ASIP transcript 2C [12]) but did not display the phenotype.