



GeneSeek Yak DNA Test

Date of Report: March 25, 2019

Animal Name: HSY Boris II

Animal ID (USYAK Ear Tag#): 18C84

Sample ID: NE00425937

DNA Fingerprint: 16 SNP Identification Code

KYKYWGTRAGCCGTYW

Parentage:

HSY Boris II qualifies as offspring of the sire HSY Ambrose with 1 exclusion out of 97 genotypes checked. HSY Boris II qualifies as offspring of the dam HSY BlueBelle with 0 exclusions out of 99 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 37

EstimationOfCOI = 0.0130

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$
 $ExpectedHets = 0.3946$
 $COI = 1.0 - 37 / (95 * 0.3946)$
 $COI = 0.0130$

SNP #	Genotype	24	A/G	48	G/T	72	A/G
1	G/T	25	C/T	49	A/A	73	A/A
2	C/T	26	G/T	50	C/C	74	A/C
3	G/T	27	A/A	51	T/T	75	A/A
4	C/T	28	T/T	52	G/T	76	G/G
5	A/T	29	C/C	53	C/G	77	C/C
6	G/G	30	C/T	54	C/C	78	C/G
7	T/T	31	G/G	55	C/T	79	T/T
8	A/G	32	C/C	56	C/G	80	C/T
9	A/A	33	A/A	57	T/T	81	G/G
10	G/G	34	G/G	58	C/C	82	T/T
11	C/C	35	C/T	59	T/T	83	A/A
12	C/C	36	C/C	60	C/C	84	C/C
13	G/G	37	C/C	61	A/A	85	G/G
14	T/T	38	T/A	62	C/C	86	C/G
15	C/T	39	A/A	63	G/G	87	G/T
16	A/T	40	A/A	64	G/T	88	C/T
17	C/C	41	A/C	65	C/T	89	C/T
18	G/T	42	G/G	66	T/T	90	A/A
19	G/G	43	C/T	67	A/A	91	G/G
20	A/A	44	A/T	68	A/A	92	T/T
21	C/T	45	A/G	69	C/C	93	T/T
22	A/T	46	C/C	70	C/C	94	G/G
23	C/C	47	C/C	71	G/G	95	A/G