



GeneSeek Yak DNA Test

Date of Report: January 5, 2020

Animal Name: HSY Buffy

Animal ID (USYAK Ear Tag#): 19B81

Sample ID: NE00425996

DNA Fingerprint: 16 SNP Identification Code

KCGTWGTAAGCSSTTW

Parentage:

HSY Buffy qualifies as offspring of the sire HSY Ambrose with 1 exclusion out of 96 genotypes checked. HSY Buffy qualifies as offspring of the dam HSY Briar Rose with 1 exclusion out of 95 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 38

EstimationOfCOI = -0.0245

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$

$ExpectedHets = 0.3946$

$COI = 1.0 - 38 / (94 * 0.3946)$

$COI = -0.0245$

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