



GeneSeek Yak DNA Test

Date of Report: October 25, 2018

Animal Name: HSY Bryn

Animal ID (USYAK Ear Tag#): 15C46

Sample ID: 9517008959

DNA Fingerprint: 16 SNP Identification Code

KCKCWGTRRGCCSTYW

Parentage:

Insufficient genotype data to confirm or exclude the sire HSY Barlow with 0 genotypes checked (min. 90). HSY Bryn qualifies as offspring of the dam HSY Brandy with 0 exclusions out of 100 genotypes checked.

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 38

EstimationOfCOI = -0.0137

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 38 / (95 * 0.3946)$

$COI = -0.0137$

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