



GeneSeek Yak DNA Test

Date of Report: December 10, 2019

Animal Name: HSY Brenda

Animal ID (USYAK Ear Tag#): 16C46

Sample ID: NE01210811

DNA Fingerprint: 16 SNP Identification Code
KCKYAKTGGGYSGYYW

Parentage:

The Sire was not reported in the submission. Dam is not
Reported in the submission

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 36

EstimationOfCOI = -0.0025

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 94

CallRate =0.959

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 36 / (91 * 0.3946)$
 $COI = -0.0025$

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