



GeneSeek Yak DNA Test

Date of Report: March 25, 2019

Animal Name: HSY Sybil

Animal ID (USYAK Ear Tag#): 18C70

Sample ID: NE00426004

DNA Fingerprint: 16 SNP Identification Code

GCKCATTRGGYSGTYT

Parentage:

HSY Sybil qualifies as offspring of the sire HSY Barlow with 0 exclusions out of 97 genotypes checked. HSY Sybil qualifies as offspring of the dam HSY Suzie with 2 exclusions out of 99 genotypes checked.

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 32

EstimationOfCOI = 0.1464

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 32 / (95 * 0.3946)$
 $COI = 0.1464$

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