



GeneSeek Yak DNA Test

Date of Report: January 5, 2020

Animal Name: HSY Miss Lillian

Animal ID (USYAK Ear Tag#): 13B77

Sample ID: NE00426025

DNA Fingerprint: 16 SNP Identification Code

TCTYATTG-SYSGYYT

Parentage:

HSY Miss Lillian qualifies as offspring of the sire HSY Yoda with 0 exclusions out of 95 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 52

EstimationOfCOI = -0.4170

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$
 $ExpectedHets = 0.3946$
 $COI = 1.0 - 52 / (93 * 0.3946)$
 $COI = -0.4170$

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