



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: HSY Guinevere

Animal ID (USYAK Ear Tag#): 20A28

Sample ID: NE00485317

DNA Fingerprint: 16 SNP Identification Code
KKGCTGTA-CYGGTCW

Parentage:

HSY Guinevere qualifies as offspring of the sire HSY
Reginald with 0 exclusions out of 86 genotypes checked.
HSY Guinevere qualifies as offspring of the dam HSY Vera
with 0 exclusions out of 87 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.012

Coefficient of Inbreeding

No. Heterozygous SNPs = 35

EstimationOfCOI = -0.0435

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 85

CallRate =0.977

CallRateThreshold =0.94

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 35 / (85 * 0.3946)$
 $COI = -0.0435$

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