



GeneSeek Yak DNA Test

Date of Report: November 21, 2018

Animal Name: HSY Vernon

Animal ID (USYAK Ear Tag#): 16B91

Sample ID: 9517008951

DNA Fingerprint: 16 SNP Identification Code

TCKYTKTR-SCGGYYW

Parentage:

HSY Vernon qualifies as offspring of the sire HSY Yoda with 0 exclusions out of 96 genotypes checked. HSY Vernon qualifies as offspring of the dam HSY Verbena with 0 exclusions out of 97 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 49

EstimationOfCOI = -0.3210

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 49 / (94 * 0.3946)$

$COI = -0.3210$

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