



GeneSeek Yak DNA Test

Date of Report: August 3, 2019

Animal Name: HSY Vivian

Animal ID (USYAK Ear Tag#): 17C74

Sample ID: NE00425944

DNA Fingerprint: 16 SNP Identification Code

KKKYWKTAASCSGTCA

Parentage:

Insufficient genotype data to confirm or exclude the sire

HPY Yogan O025 with 0 genotypes checked (min. 90).

Insufficient genotype data to confirm or exclude the dam

ILYA Violet S002 with 0 genotypes checked (min. 90).

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 34

EstimationOfCOI = 0.0834

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 34 / (94 * 0.3946)$
 $COI = 0.0834$

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