



GeneSeek Yak DNA Test

Date of Report: March 25, 2019

Animal Name: HSY Katya

Animal ID (USYAK Ear Tag#): 18C62

Sample ID: NE00426005

DNA Fingerprint: 16 SNP Identification Code

KCKYAKTRRSTGGYCT

Parentage:

HSY Katya qualifies as offspring of the sire HSY Yoda with 0 exclusions out of 97 genotypes checked. HSY Katya qualifies as offspring of the dam HSY Kay with 0 exclusions out of 99 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 36

EstimationOfCOI = 0.0397

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

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 36 / (95 * 0.3946)$
 $COI = 0.0397$

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