



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: HSY Percy

Animal ID (USYAK Ear Tag#): 17D26

Sample ID: NE00425941

DNA Fingerprint: 16 SNP Identification Code

KCKYWGTA-GCCGTYW

Parentage:

HSY Percy qualifies as offspring of the sire HSY Ambrose with 0 exclusions out of 87 genotypes checked. HSY Percy qualifies as offspring of the dam HSY Persephone with 0 exclusions out of 88 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 34

EstimationOfCOI = -0.0019

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 86

CallRate =0.989

CallRateThreshold =0.94

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 34 / (86 * 0.3946)$
 $COI = -0.0019$

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