



GeneSeek Yak DNA Test

Date of Report: July 30, 2018

Animal Name: HSY Merlyn

Animal ID (USYAK Ear Tag#): 14B84

Sample ID: 9517008991

DNA Fingerprint: 16 SNP Identification Code
GYGTTGTAGGYSGYTW

Parentage:

Insufficient genotype data to confirm or exclude the sire
HSY Barlow with 0 genotypes checked (min. 90). HSY Merlyn
qualifies as offspring of the dam HSY Margo with 0
exclusions out of 97 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 33

EstimationOfCOI = 0.1197

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 33 / (95 * 0.3946)$

$COI = 0.1197$

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