



GeneSeek Yak DNA Test

Date of Report: May 28, 2020

Animal Name: HSY Percival

Animal ID (USYAK Ear Tag#): 19C15

Sample ID: NE00485383

DNA Fingerprint: 16 SNP Identification Code

KCKYTGTARSYSSTYT

Parentage:

HSY Percival qualifies as offspring of the sire HSY Ambrose with 0 exclusions out of 95 genotypes checked. HSY Percival qualifies as offspring of the dam HSY Persephone with 1 exclusion out of 96 genotypes checked.

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 36

EstimationOfCOI = 0.0190

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$

$ExpectedHets = 0.3946$

$COI = 1.0 - 36 / (93 * 0.3946)$

$COI = 0.0190$

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