



GeneSeek Yak DNA Test

Date of Report: November 21, 2018

Animal Name: HSY Leonard

Animal ID (USYAK Ear Tag#): 16B94

Sample ID: 9517008937

DNA Fingerprint: 16 SNP Identification Code
GYGYTGTRGGYSGTTT

Parentage:

HSY Leonard qualifies as offspring of the sire HSY Barlow with 1 exclusion out of 96 genotypes checked. HSY Leonard qualifies as offspring of the dam HSY Louise with 1 exclusion out of 96 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 38

EstimationOfCOI = -0.0245

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$
 $ExpectedHets = 0.3946$
 $COI = 1.0 - 38 / (94 * 0.3946)$
 $COI = -0.0245$

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