



GeneSeek Yak DNA Test

Date of Report: January 5, 2020

Animal Name: HSY Bailey

Animal ID (USYAK Ear Tag#): 19B80

Sample ID: NE00425997

DNA Fingerprint: 16 SNP Identification Code

KYGYWKKRRRGYSGTTT

Parentage:

HSY Bailey qualifies as offspring of the sire HSY Liam with 0 exclusions out of 96 genotypes checked. HSY Bailey qualifies as offspring of the dam HSY Buttercup with 0 exclusions out of 97 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 45

EstimationOfCOI = -0.2262

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 45 / (93 * 0.3946)$

$COI = -0.2262$

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