



GeneSeek Yak DNA Test

Date of Report: March 25, 2019

Animal Name: HSY Bea

Animal ID (USYAK Ear Tag#): 18C79

Sample ID: NE00425932

DNA Fingerprint: 16 SNP Identification Code

KYK CWTTAGSYSSYYW

Parentage:

HSY Bea qualifies as offspring of the sire HSY Yoda with 0 exclusions out of 97 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 51

EstimationOfCOI = -0.3605

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 51 / (95 * 0.3946)$
 $COI = -0.3605$

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