



GeneSeek Yak DNA Test

Date of Report: November 21, 2018

Animal Name: CBC-Shiva

Animal ID (USYAK Ear Tag#): 16C69

Sample ID: 31318031972

DNA Fingerprint: 16 SNP Identification Code
KYK CWK TAGGTGGTCW

Parentage:

CBC-Shiva qualifies as offspring of the sire SBR Jeep with 1 exclusion out of 98 genotypes checked. CBC-Shiva qualifies as offspring of the dam PY1 Beki with 0 exclusions out of 96 genotypes checked.

Cattle Introgression

CattleAlleles = 3

CattleFraction = 0.016

Coefficient of Inbreeding

No. Heterozygous SNPs = 40

EstimationOfCOI = -0.0670

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 40 / (95 * 0.3946)$

$COI = -0.0670$

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