



GeneSeek Yak DNA Test

Date of Report: June 22, 2018

Animal Name: BCR SHIRLEY

Animal ID (USYAK Ear Tag#): 15B26

Sample ID: AF00598946

DNA Fingerprint: 16 SNP Identification Code

GKGCWKTRGSYGSTCT

Parentage:

The Sire was not reported in the submission. Dam is not Reported in the submission

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005263157894736842

Coefficient of Inbreeding

No. Heterozygous SNPs = 33

EstimationOfCOI = 0.1197

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern C - Black

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 33 / (95 * 0.3946)$

$COI = 0.1197$

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