



GeneSeek Yak DNA Test

Date of Report: January 5, 2020

Animal Name: SR 18 Olivia

Animal ID (USYAK Ear Tag#): 19B99

Sample ID: 81318001430

DNA Fingerprint: 16 SNP Identification Code

KYGYAKTAASTGSTYW

Parentage:

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

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 36

EstimationOfCOI = 0.0084

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 95

CallRate =0.969

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 36 / (92 * 0.3946)$
 $COI = 0.0084$

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