



GeneSeek Yak DNA Test

Date of Report: October 25, 2018

Animal Name: SF George

Animal ID (USYAK Ear Tag#): 17C27

Sample ID: AF00551353

DNA Fingerprint: 16 SNP Identification Code
GTGYAGTARGTGSYYW

Parentage:

The Sire was not reported in the submission.

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 34

EstimationOfCOI = 0.0930

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 34 / (95 * 0.3946)$
 $COI = 0.0930$

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