



GeneSeek Yak DNA Test

Date of Report: May 2, 2019

Animal Name: HSG Aurora Pirate

Animal ID (USYAK Ear Tag#): 18C90

Sample ID: 21918041936

DNA Fingerprint: 16 SNP Identification Code

TGGCATTAGSYSSYCA

Parentage:

HSG Aurora Pirate qualifies as offspring of the sire HSG Yangar with 0 exclusions out of 96 genotypes checked. HSG Aurora Pirate qualifies as offspring of the dam HSG Yinka with 0 exclusions out of 97 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 28

EstimationOfCOI = 0.2370

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 28 / (93 * 0.3946)$

$COI = 0.2370$

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