



GeneSeek Yak DNA Test

Date of Report: May 2, 2019

Animal Name: HSG Poppy

Animal ID (USYAK Ear Tag#): 18C93

Sample ID: 21918041961

DNA Fingerprint: 16 SNP Identification Code

KKGYKGTRGSTGGTYW

Parentage:

HSG Poppy qualifies as offspring of the sire HSG Yangar with 0 exclusions out of 96 genotypes checked. HSG Poppy qualifies as offspring of the dam HSG Joshi with 1 exclusion out of 97 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 34

EstimationOfCOI = 0.0735

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$

$ExpectedHets = 0.3946$

$COI = 1.0 - 34 / (93 * 0.3946)$

$COI = 0.0735$

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