



GeneSeek Yak DNA Test

Date of Report: September 12, 2019

Animal Name: AWY Bonnie

Animal ID (USYAK Ear Tag#): 19B39

Sample ID: NE01196656

DNA Fingerprint: 16 SNP Identification Code
TSGCRKTAGGYSGTYA

Parentage:

AWY Bonnie qualifies as offspring of the sire HSG Yangar with 0 exclusions out of 98 genotypes checked. AWY Bonnie qualifies as offspring of the dam AWY1703 with 0 exclusions out of 98 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 37

EstimationOfCOI = 0.0130

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$
 $ExpectedHets = 0.3946$
 $COI = 1.0 - 37 / (95 * 0.3946)$
 $COI = 0.0130$

SNP #	Genotype	24	C/C	48	G/T	72	A/G
1	T/T	25	C/T	49	A/A	73	A/A
2	G/C	26	G/T	50	C/C	74	A/C
3	G/G	27	A/A	51	T/T	75	A/G
4	C/C	28	C/C	52	G/T	76	G/T
5	G/A	29	C/C	53	C/C	77	C/T
6	G/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/C
9	G/G	33	A/C	57	C/C	81	G/G
10	G/G	34	G/G	58	C/C	82	C/C
11	C/T	35	C/T	59	A/T	83	A/G
12	C/G	36	C/C	60	C/C	84	C/T
13	G/G	37	G/G	61	A/C	85	G/T
14	T/T	38	A/G	62	C/C	86	G/G
15	C/T	39	A/A	63	A/G	87	G/G
16	A/A	40	A/C	64	G/T	88	C/T
17	C/C	41	A/C	65	T/T	89	C/T
18	T/T	42	G/G	66	T/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	T/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