



GeneSeek Yak DNA Test

Date of Report: October 2, 2018

Animal Name: AWY Huey

Animal ID (USYAK Ear Tag#): 18B71X

Sample ID: NE00774758

DNA Fingerprint: 16 SNP Identification Code

GTKCAWRMRSYSSTSR

Parentage:

AWY Huey qualifies as offspring of the sire AWY Curly with 0 exclusions out of 94 genotypes checked. AWY Huey qualifies as offspring of the dam AWY Tashi with 1 exclusion out of 98 genotypes checked.

Cattle Introgression

CattleAlleles = 14

CattleFraction = 0.074

Coefficient of Inbreeding

No. Heterozygous SNPs = 44

EstimationOfCOI = -0.1862

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 44 / (94 * 0.3946)$
 $COI = -0.1862$

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