



GeneSeek Yak DNA Test

Date of Report: October 2, 2018

Animal Name: AWY Premonition

Animal ID (USYAK Ear Tag#): 18B66X

Sample ID: NE00774760

DNA Fingerprint: 16 SNP Identification Code

KYRCRKTAWSYSCTYA

Parentage:

AWY Premonition qualifies as offspring of the sire AWY Curly with 1 exclusion out of 95 genotypes checked. AWY Premonition qualifies as offspring of the dam Winter with 0 exclusions out of 98 genotypes checked.

Cattle Introgression

CattleAlleles = 17

CattleFraction = 0.089

Coefficient of Inbreeding

No. Heterozygous SNPs = 53

EstimationOfCOI = -0.4138

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$
 $ExpectedHets = 0.3946$
 $COI = 1.0 - 53 / (95 * 0.3946)$
 $COI = -0.4138$

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