



GeneSeek Yak DNA Test

Date of Report: July 18, 2018

Animal Name: AWY Y146

Animal ID (USYAK Ear Tag#): 12A67

Sample ID: NE00774747

DNA Fingerprint: 16 SNP Identification Code
GYGYWTTGGSCSSTYT

Parentage:

The Sire was not reported in the submission. Dam is not
Reported in the submission

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 31

EstimationOfCOI = 0.1730

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

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 31 / (95 * 0.3946)$
 $COI = 0.1730$

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