



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: CCY Wonder Woman

Animal ID (USYAK Ear Tag#): 13C61

Sample ID: 52919026025

DNA Fingerprint: 16 SNP Identification Code

GYKCAKKA-SYGSCYT

Parentage:

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

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 35

EstimationOfCOI = -0.0195

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 87

CallRate =1.000

CallRateThreshold =0.94

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 35 / (87 * 0.3946)$

$COI = -0.0195$

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