



GeneSeek Yak DNA Test

Date of Report: June 21, 2021

Animal Name: PWY Sophia

Animal ID (USYAK Ear Tag#): 18D26

Sample ID: 81318106274

DNA Fingerprint: 16 SNP Identification Code

-CGTAKTA-CCGGYCT

Parentage:

No suggested sires could be verified for this animal. PWY Sophia qualifies as offspring of the dam PWY Noname with 0 exclusions out of 82 genotypes checked.

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.006

Coefficient of Inbreeding

No. Heterozygous SNPs = 17

EstimationOfCOI = 0.4746

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 82

CallRate =0.943

CallRateThreshold =0.94

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 17 / (82 * 0.3946)$
 $COI = 0.4746$

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