



GeneSeek Yak DNA Test

Date of Report: November 21, 2018

Animal Name: HSY Murphy

Animal ID (USYAK Ear Tag#): 16B92

Sample ID: 9517008938

DNA Fingerprint: 16 SNP Identification Code

KYKTTGTA-CTGGCYW

Parentage:

No suggested sires could be verified for this animal. HSY Murphy qualifies as offspring of the dam HSY Margo with 0 exclusions out of 96 genotypes checked.

Cattle Introgression

CattleAlleles = 3

CattleFraction = 0.016

Coefficient of Inbreeding

No. Heterozygous SNPs = 32

EstimationOfCOI = 0.1373

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 32 / (94 * 0.3946)$

$COI = 0.1373$

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