



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: HSY Harlan

Animal ID (USYAK Ear Tag#): 18D22

Sample ID: NE00485366

DNA Fingerprint: 16 SNP Identification Code
KCKYWKTA-GYSGTYW

Parentage:

HSY Harlan qualifies as offspring of the sire HSY Liam with 0 exclusions out of 88 genotypes checked. HSY Harlan qualifies as offspring of the dam HSY Harper with 1 exclusion out of 88 genotypes checked.

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.006

Coefficient of Inbreeding

No. Heterozygous SNPs = 31

EstimationOfCOI = 0.0865

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 86

CallRate =0.989

CallRateThreshold =0.94

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 31 / (86 * 0.3946)$

$COI = 0.0865$

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