



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: HHF7 HERCULES

Animal ID (USYAK Ear Tag#): 19C20

Sample ID: NE01191790

DNA Fingerprint: 16 SNP Identification Code

GCTYAGTA-STGGTYW

Parentage:

HHF7 HERCULES qualifies as offspring of the sire HSY Armand with 1 exclusion out of 87 genotypes checked. HHF7 HERCULES qualifies as offspring of the dam HHF7 KATINKA with 0 exclusions out of 89 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 33

EstimationOfCOI = 0.0387

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern C - Solid

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 87

CallRate =1.000

CallRateThreshold =0.94

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 33 / (87 * 0.3946)$

$COI = 0.0387$

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