



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: HSY Violet

Animal ID (USYAK Ear Tag#): 20A19

Sample ID: NE00485315

DNA Fingerprint: 16 SNP Identification Code
TYGYWKTA-GCSGTTA

Parentage:

HSY Violet qualifies as offspring of the sire HSY Ambrose with 0 exclusions out of 88 genotypes checked. HSY Violet qualifies as offspring of the dam HSY Verbena with 0 exclusions out of 88 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.012

Coefficient of Inbreeding

No. Heterozygous SNPs = 36

EstimationOfCOI = -0.0608

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 86

CallRate =0.989

CallRateThreshold =0.94

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 36 / (86 * 0.3946)$

$COI = -0.0608$

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