



GeneSeek Yak DNA Test

Date of Report: January 12, 2021

Animal Name: SBY John Prine

Animal ID (USYAK Ear Tag#): 20A08

Sample ID: NE02112395

DNA Fingerprint: 16 SNP Identification Code

KYKYWKTA-GTGGTYW

Parentage:

SBY John Prine qualifies as offspring of the sire SBR Jeep with 0 exclusions out of 84 genotypes checked. SBY John Prine qualifies as offspring of the dam MVYR Kali with 0 exclusions out of 85 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 32

EstimationOfCOI = 0.0110

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 82

CallRate =0.943

CallRateThreshold =0.94

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 32 / (82 * 0.3946)$

$COI = 0.0110$

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