



GeneSeek Yak DNA Test

Date of Report: November 23, 2019

Animal Name: ZSY Fandango

Animal ID (USYAK Ear Tag#): 19B49

Sample ID: 21918007782

DNA Fingerprint: 16 SNP Identification Code

GTKYTGTRRSYSGYYA

Parentage:

ZSY Fandango qualifies as offspring of the sire TRY Kodiak with 0 exclusions out of 95 genotypes checked. ZSY Fandango qualifies as offspring of the dam LDR Jersey Girl with 1 exclusion out of 95 genotypes checked.

Cattle Introgression

CattleAlleles = 0

CattleFraction = 0.000

Coefficient of Inbreeding

No. Heterozygous SNPs = 34

EstimationOfCOI = 0.0735

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 34 / (93 * 0.3946)$

$COI = 0.0735$

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