



GeneSeek Yak DNA Test

Date of Report: October 25, 2018

Animal Name: RDR Shanti

Animal ID (USYAK Ear Tag#): 15C37

Sample ID: 21918041902

DNA Fingerprint: 16 SNP Identification Code
GTGCAKTRRGCSSTYW

Parentage:

The Sire was not reported in the submission. Dam is not
Reported in the submission

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 34

EstimationOfCOI = 0.0930

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 34 / (95 * 0.3946)$
 $COI = 0.0930$

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