



GeneSeek Yak DNA Test

Date of Report: June 22, 2018

Animal Name: HSG Joshi

Animal ID (USYAK Ear Tag#): 13B14

Sample ID: NE00782167

DNA Fingerprint: 16 SNP Identification Code

KYGTKKTSGSTGGKYT

Parentage:

The Sire was not reported in the submission. HSG Joshi qualifies as offspring of the dam HSG Reina with 1 exclusion out of 99 genotypes checked.

Cattle Introgression

CattleAlleles = 5

CattleFraction = 0.02631578947368421

Coefficient of Inbreeding

No. Heterozygous SNPs = 36

EstimationOfCOI = 0.0397

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern C - Black

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 36 / (95 * 0.3946)$

$COI = 0.0397$

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