



GeneSeek Yak DNA Test

Date of Report: November 23, 2019

Animal Name: AHY Kublai Khan

Animal ID (USYAK Ear Tag#): 18D11

Sample ID: 2119117507

DNA Fingerprint: 16 SNP Identification Code

KYGYAKTR-STGGKYT

Parentage:

AHY Kublai Khan qualifies as offspring of the sire SBY Krishna with 1 exclusion out of 94 genotypes checked. Dam is not Reported in the submission

Cattle Introgression

CattleAlleles = 1

CattleFraction = 0.005

Coefficient of Inbreeding

No. Heterozygous SNPs = 31

EstimationOfCOI = 0.1367

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern T - Royal

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 94

CallRate =0.959

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$

$ExpectedHets = 0.3946$

$COI = 1.0 - 31 / (91 * 0.3946)$

$COI = 0.1367$

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