



GeneSeek Yak DNA Test

Date of Report: June 21, 2021

Animal Name: GPR Aero

Animal ID (USYAK Ear Tag#): 19C24

Sample ID: AF01684988

DNA Fingerprint: 16 SNP Identification Code

GYTCWTTG-GTGGYCW

Parentage:

GPR Aero qualifies as offspring of the sire SBR Parker B030 with 0 exclusions out of 87 genotypes checked. GPR Aero qualifies as offspring of the dam PY1 Coco B046 with 0 exclusions out of 88 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.012

Coefficient of Inbreeding

No. Heterozygous SNPs = 33

EstimationOfCOI = 0.0161

Other Features

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 85

CallRate =0.977

CallRateThreshold =0.94

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 33 / (85 * 0.3946)$
 $COI = 0.0161$

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