



GeneSeek Yak DNA Test

Date of Report: September 5, 2018

Animal Name: MVYR Heather

Animal ID (USYAK Ear Tag#): 11B80

Sample ID: 21918041922

DNA Fingerprint: 16 SNP Identification Code
TGGCTGTARGYGGTYA

Parentage:

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

Cattle Introgression

CattleAlleles = 3

CattleFraction = 0.016

Coefficient of Inbreeding

No. Heterozygous SNPs = 31

EstimationOfCOI = 0.1730

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

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 31 / (95 * 0.3946)$

$COI = 0.1730$

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