



## GeneSeek Yak DNA Test

**Date of Report:** January 5, 2020

**Animal Name:** HSY Marjorie

**Animal ID (USYAK Ear Tag#):** 19B88

**Sample ID:** NE00426026

**DNA Fingerprint:** 16 SNP Identification Code  
KSKYWGTARSCCSTCT

**Parentage:**

No suggested sires could be verified for this animal. HSY Marjorie qualifies as offspring of the dam HSY Marge with 0 exclusions out of 97 genotypes checked.

**Cattle Introgression**

CattleAlleles = 2

CattleFraction = 0.011

**Coefficient of Inbreeding**

No. Heterozygous SNPs = 28

EstimationOfCOI = 0.2370

**Other Features**

ATP6 Mitochondrial DNA: A - Yak

KIT Coat pattern Y - Trim

**SAMPLE QUALITY**

TotalAssays= 98

TotalCalls= 96

CallRate =0.980

CallRateThreshold =0.95

CallRateStatus=Pass

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

$\text{ExpectedHets} = 0.3946$

$COI = 1.0 - 28 / (93 * 0.3946)$

$COI = 0.2370$

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