



GeneSeek Yak DNA Test

Date of Report: June 22, 2018

Animal Name: HSG Solstice

Animal ID (USYAK Ear Tag#): 16B19X

Sample ID: NE00782162

DNA Fingerprint: 16 SNP Identification Code
TSGYWKTAGSTGGYYA

Parentage:

HSG Solstice qualifies as offspring of the sire HSG Yangar with 0 exclusions out of 98 genotypes checked. Dam is not Reported in the submission

Cattle Introgression

CattleAlleles = 3

CattleFraction = 0.015789473684210527

Coefficient of Inbreeding

No. Heterozygous SNPs = 42

EstimationOfCOI = -0.1204

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 98

CallRate =1.000

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 42 / (95 * 0.3946)$
 $COI = -0.1204$

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