



GeneSeek Yak DNA Test

Date of Report: May 6, 2021

Animal Name: AWY Diezel

Animal ID (USYAK Ear Tag#): 20A50

Sample ID: NE01555530

DNA Fingerprint: 16 SNP Identification Code

GYGYATKA-GCGCTCA

Parentage:

AWY Diezel qualifies as offspring of the sire AWY Curly with 0 exclusions out of 88 genotypes checked. AWY Diezel qualifies as offspring of the dam AWY Frau with 0 exclusions out of 90 genotypes checked.

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 33

EstimationOfCOI = 0.0387

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 87

TotalCalls= 87

CallRate =1.000

CallRateThreshold =0.94

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$
 $ExpectedHets = 0.3946$
 $COI = 1.0 - 33 / (87 * 0.3946)$
 $COI = 0.0387$

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