

GeneSeek Yak Parentage and Cattle Introgression Test

Identification

Animal Name: ZSY Marigold's Black Dahlia

Sample ID:

16 SNP Identification Code KCGTWTTT-GCSSTYW

ZSY Marigold's Black Dahlia qualifies as an offspring of SIRE FW Rocket

(0 Exclusions out of 93 genotypes checked) Dam is DCF Marigold (0 Exclusions out of 94 genotypes checked)

Cattle Introgression

CattleAlleles =2

AncestralYakAlleles =111

RecentYakAlleles =69

CattleFraction =0.01098901098901099



Coefficient of Inbreeding

No. Heterozygous SNPs = 40

EstimationOfCOI =-0.1139

Other Features

Mitochondrial DNA G - Cattle

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 94

CallRate =0.959

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - heterozygoteTotal / (Nsites * ExpectedHets)$

$ExpectedHets = 0.3946$

$COI = 1.0 - 40 / (91 * 0.3946)$

$COI = -0.1139$

#	SNP_ID	Genotype	32 Bg_Bt_UMD3_chr7:59924729	C/C	64 Bg_Bt_UMD3_chr16:17627607	G/G
1	Bg_Bt_UMD3_chr1:11611152	G/T	33 Bg_Bt_UMD3_chr7:61603492	A/A	65 Bg_Bt_UMD3_chr16:27346407	C/C
2	Bg_Bt_UMD3_chr1:19603843	C/C	34 Bg_Bt_UMD3_chr7:106143569	G/G	66 Bg_Bt_UMD3_chr16:37235898	G/T
3	Bg_Bt_UMD3_chr1:106754991	G/G	35 Bg_Bt_UMD3_chr8:35799123	C/C	67 Bg_Bt_UMD3_chr17:6749112	A/A
4	Bg_Bt_UMD3_chr1:154872834	T/T	36 Bg_Bt_UMD3_chr8:103151793	C/C	68 Bg_Bt_UMD3_chr17:31022749	A/A
5	Bg_Bt_UMD3_chr2:35754741	A/T	37 Bg_Bt_UMD3_chr8:105594647	G/G	69 Bg_Bt_UMD3_chr17:48657788	C/C
6	Bg_Bt_UMD3_chr2:51851787	T/T	38 Bg_Bt_UMD3_chr9:8416809	A/G	70 Bg_Bt_UMD3_chr17:50526845	C/C
7	Bg_Bt_UMD3_chr2:73562811	T/T	39 Bg_Bt_UMD3_chr9:36039743	A/A	71 Bg_Bt_UMD3_chr17:73228099	G/T
8	Bg_Bt_UMD3_chr2:108669950	A/G	40 Bg_Bt_UMD3_chr9:96035965	A/A	72 Bg_Bt_UMD3_chr18:22272606	A/G
9	Bg_Bt_UMD3_chr2:135821825	--	41 Bg_Bt_UMD3_chr9:97200189	A/A	73 Bg_Bt_UMD3_chr18:31899459	A/A
10	Bg_Bt_UMD3_chr3:16782467	G/G	42 Bg_Bt_UMD3_chr10:13448721	A/G	74 Bg_Bt_UMD3_chr19:53556396	C/C
11	Bg_Bt_UMD3_chr3:31884274	C/C	43 Bg_Bt_UMD3_chr10:72325948	C/T	75 Bg_Bt_UMD3_chr19:63181970	G/G
12	Bg_Bt_UMD3_chr3:32162241	C/G	44 Bg_Bt_UMD3_chr10:101587185	A/T	76 Bg_Bt_UMD3_chr20:6979616	G/T
13	Bg_Bt_UMD3_chr3:55871907	C/G	45 Bg_Bt_UMD3_chr11:10319205	A/A	77 Bg_Bt_UMD3_chr20:22394132	C/T
14	Bg_Bt_UMD3_chr3:60501892	T/T	46 Bg_Bt_UMD3_chr11:34588924	C/C	78 Bg_Bt_UMD3_chr20:52343058	C/G
15	Bg_Bt_UMD3_chr3:72881652	C/T	47 Bg_Bt_UMD3_chr11:42099862	C/T	79 Bg_Bt_UMD3_chr21:8541469	T/T
16	Bg_Bt_UMD3_chr3:88807660	A/T	48 Bg_Bt_UMD3_chr11:75398487	G/G	80 Bg_Bt_UMD3_chr21:35371951	C/C
17	Bg_Bt_UMD3_chr4:6749340	C/C	49 Bg_Bt_UMD3_chr11:83618697	A/A	81 Bg_Bt_UMD3_chr22:3842135	G/T
18	Bg_Bt_UMD3_chr4:31218839	G/G	50 Bg_Bt_UMD3_chr12:16628394	C/C	82 Bg_Bt_UMD3_chr22:21618015	C/C
19	Bg_Bt_UMD3_chr4:59985637	C/G	51 Bg_Bt_UMD3_chr12:38918421	G/T	83 Bg_Bt_UMD3_chr22:40850741	T/G
20	Bg_Bt_UMD3_chr4:68609356	A/T	52 Bg_Bt_UMD3_chr12:65478052	T/T	84 Bg_Bt_UMD3_chr22:48005412	C/C
21	Bg_Bt_UMD3_chr4:97170995	C/C	53 Bg_Bt_UMD3_chr13:14128040	C/C	85 Bg_Bt_UMD3_chr24:62505702	G/G
22	Bg_Bt_UMD3_chr5:72886737	A/T	54 Bg_Bt_UMD3_chr13:16431857	C/T	86 Bg_Bt_UMD3_chr25:158052	--
23	Bg_Bt_UMD3_chr5:100853172	C/C	55 Bg_Bt_UMD3_chr13:36437915	T/T	87 Bg_Bt_UMD3_chr25:42661806	G/T
24	Bg_Bt_UMD3_chr5:119385958	--	56 Bg_Bt_UMD3_chr14:3368905	C/G	88 Bg_Bt_UMD3_chr26:10857224	C/T
25	Bg_Bt_UMD3_chr6:2829446	C/T	57 Bg_Bt_UMD3_chr14:20015146	C/T	89 Bg_Bt_UMD3_chr26:12336398	C/T
26	Bg_Bt_UMD3_chr6:35088167	G/G	58 Bg_Bt_UMD3_chr14:35695388	C/T	90 Bg_Bt_UMD3_chr27:13550559	--
27	Bg_Bt_UMD3_chr6:52296470	A/G	59 Bg_Bt_UMD3_chr14:51388662	A/T	91 Bg_Bt_UMD3_chr27:16057108	G/T
28	Bg_Bt_UMD3_chr6:66063680	T/T	60 Bg_Bt_UMD3_chr15:1612812	G/C	92 Bg_Bt_UMD3_chr28:5406231	G/T
29	Bg_Bt_UMD3_chr7:2908163	C/C	61 Bg_Bt_UMD3_chr15:24038406	A/C	93 Bg_Bt_UMD3_chr28:18571823	T/T
30	Bg_Bt_UMD3_chr7:18126486	C/C	62 Bg_Bt_UMD3_chr15:31899012	C/C	94 Bg_Bt_UMD3_chr29:16271334	A/A
31	Bg_Bt_UMD3_chr7:49998354	G/G	63 Bg_Bt_UMD3_chr15:39249514	A/G	95 Bg_Bt_UMD3_chr29:21414616	A/G