

# GeneSeek Yak Parentage and Cattle Introgression Test

## Identification

**Animal Name:** AWY White Boy

## Sample ID:

16 SNP Identification Code RYKCAKTAGSTGGTKR

AWY White Boy qualifies as an offspring of SIRE AWY Chumba  
(1 Exclusions out of 97 genotypes checked) Dam is AWY Tashi  
(0 Exclusions out of 98 genotypes checked)

## Cattle Introgression

CattleAlleles =26

AncestralYakAlleles =89

RecentYakAlleles =73

CattleFraction =0.13829787234042554



## Coefficient of Inbreeding

No. Heterozygous SNPs = 48

EstimationOfCOI =-0.2941

## Other Features

Mitochondrial DNA G - Cattle

## SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 97

CallRate =0.990

CallRateThreshold =0.95

CallRateStatus=Pass

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

$ExpectedHets = 0.3946$

$COI = 1.0 - 48/(94 * 0.3946)$

$COI = -0.2941$

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