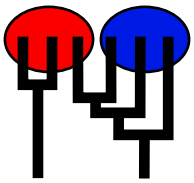
# *Bidirectional CZ and CFP1 for 500L*

POPULATION SIZE, MIGRATION, DIVERGENCE, ASSIGNMENT, HISTORY
Bayesian inference using the structured coalescent
Migrate-n version 5.0.4(git:v5.0-59-g23eb0e2-dirty) [May-09-2022]
  Compiled for PARALLEL computer architectures
  One master and 119 compute nodes are available.
Program started at  Wed May 11 19:08:29 2022
Program finished at  Wed May 11 19:16:03 2022 [Runtime:0000:00:07:34]



## *Options*

Inheritance multipliers in use for Thetas:
All loci use an inheritance multiplier of 1.0

Data set was subsampled: used a random sample of size:
5 and seed 12345

Random number seed: (from parmfile) 31070
Start parameters:

Theta values were generated Using a percent value of the prior

M values were generated Using a percent value of the prior

Connection matrix:
  m = average (average over a group of Thetas or M,
  s = symmetric migration M, S = symmetric 4Nm,
  0 = zero, and not estimated,
  * = migration free to vary, Thetas are on diagonal
  d = row population split off column population, D = split and then migration

| Population | 1 | 2 |
|---|---|---|
| 1 Pop_CFPxCZ | * | * |
| 2 Pop_CZ | * | * |

Order of parameters:

| | | |
|---|---|---|
| 1 | $\Theta_1$ | <displayed> |
| 2 | $\Theta_2$ | <displayed> |
| 3 | $M_{2->1}$ | <displayed> |
| 4 | $M_{1->2}$ | <displayed> |

Mutation rate among loci: Mutation rate is constant for all loci

Analysis strategy: Bayesian inference
-Population size estimation: Exponential Distribution
-Geneflow estimation: Exponential Distribution

Proposal distributions for parameter

| Parameter | Proposal |
|---|---|
| Theta | Slice sampling |
| M | Slice sampling |
| Divergence | Slice sampling |
| Divergence Spread | Slice sampling |
| Genealogy | Metropolis-Hastings |

Prior distribution for parameter

| Parameter | | | Prior | Minimum | Mean* | Maximum | Delta | Bins | UpdateFreq |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Theta | ** | Uniform | 0.000000 | 0.005 | 0.010 | 0.001 | 1500 | 0.12500 |
| 2 | Theta | ** | Uniform | 0.000000 | 0.005 | 0.010 | 0.001 | 1500 | 0.12500 |
| 3 | M | ** | Uniform | 0.000000 | 25000 | 50000 | 1000. | 1500 | 0.12500 |
| 4 | M | ** | Uniform | 0.000000 | 25000 | 50000 | 1000. | 1500 | 0.12500 |

[* * means priors were set globally]

Markov chain settings: Long chain
Number of chains 1
Recorded steps [a] 1000
Increment (record every x step [b] 200
Number of concurrent chains (replicates) [c] 1
Visited (sampled) parameter values [a*b*c] 200000
Number of discard trees per chain (burn-in) 2500

Multiple Markov chains:
Static heating scheme 4 chains with temperatures
1000000.00 3.00 1.50 1.00
Swapping interval is 1

Print options:
Data file: infile.cz_cfp.500L.out
parmfile.cz_cfp1.500L_uni.adj
Haplotyping is turned on: NO

| | |
|---|---|
| Output file: | Uni 500L_cz_cfp_bidir |
| Posterior distribution raw histogram file: | bayesfile |
| Raw data from the MCMC run: | bayesallfile.gz |
| Print data: | No |
| Print genealogies [only some for some data type]: | None |

# *Data summary*

Data file: infile.cz_cfp.500L.out
Datatype: Haplotype data
Number of loci: 500

Mutationmodel:

| Locus | Sublocus | Mutationmodel | Mutationmodel parameters |
|---|---|---|---|
| 1 | 1 | Felsenstein 84 | [Bf:0.23 0.26 0.33 0.18, t/t ratio=2.000] |
| 2 | 1 | Felsenstein 84 | [Bf:0.13 0.34 0.31 0.23, t/t ratio=2.000] |
| 3 | 1 | Felsenstein 84 | [Bf:0.21 0.19 0.21 0.39, t/t ratio=2.000] |
| 4 | 1 | Felsenstein 84 | [Bf:0.21 0.21 0.35 0.23, t/t ratio=2.000] |
| 5 | 1 | Felsenstein 84 | [Bf:0.27 0.25 0.15 0.33, t/t ratio=2.000] |
| 6 | 1 | Felsenstein 84 | [Bf:0.27 0.19 0.20 0.34, t/t ratio=2.000] |
| 7 | 1 | Felsenstein 84 | [Bf:0.28 0.24 0.16 0.31, t/t ratio=2.000] |
| 8 | 1 | Felsenstein 84 | [Bf:0.25 0.32 0.26 0.18, t/t ratio=2.000] |
| 9 | 1 | Felsenstein 84 | [Bf:0.23 0.26 0.21 0.30, t/t ratio=2.000] |
| 10 | 1 | Felsenstein 84 | [Bf:0.23 0.30 0.28 0.18, t/t ratio=2.000] |
| 11 | 1 | Felsenstein 84 | [Bf:0.21 0.29 0.34 0.16, t/t ratio=2.000] |
| 12 | 1 | Felsenstein 84 | [Bf:0.20 0.31 0.29 0.20, t/t ratio=2.000] |
| 13 | 1 | Felsenstein 84 | [Bf:0.21 0.26 0.26 0.28, t/t ratio=2.000] |
| 14 | 1 | Felsenstein 84 | [Bf:0.26 0.21 0.32 0.21, t/t ratio=2.000] |
| 15 | 1 | Felsenstein 84 | [Bf:0.21 0.21 0.33 0.25, t/t ratio=2.000] |
| 16 | 1 | Felsenstein 84 | [Bf:0.23 0.24 0.28 0.26, t/t ratio=2.000] |
| 17 | 1 | Felsenstein 84 | [Bf:0.18 0.26 0.33 0.23, t/t ratio=2.000] |
| 18 | 1 | Felsenstein 84 | [Bf:0.23 0.18 0.37 0.22, t/t ratio=2.000] |
| 19 | 1 | Felsenstein 84 | [Bf:0.28 0.16 0.42 0.14, t/t ratio=2.000] |
| 20 | 1 | Felsenstein 84 | [Bf:0.30 0.21 0.21 0.28, t/t ratio=2.000] |
| 21 | 1 | Felsenstein 84 | [Bf:0.18 0.31 0.30 0.21, t/t ratio=2.000] |
| 22 | 1 | Felsenstein 84 | [Bf:0.24 0.38 0.22 0.16, t/t ratio=2.000] |
| 23 | 1 | Felsenstein 84 | [Bf:0.15 0.34 0.27 0.23, t/t ratio=2.000] |
| 24 | 1 | Felsenstein 84 | [Bf:0.23 0.30 0.32 0.16, t/t ratio=2.000] |
| 25 | 1 | Felsenstein 84 | [Bf:0.26 0.16 0.34 0.24, t/t ratio=2.000] |
| 26 | 1 | Felsenstein 84 | [Bf:0.27 0.24 0.21 0.29, t/t ratio=2.000] |
| 27 | 1 | Felsenstein 84 | [Bf:0.24 0.22 0.38 0.16, t/t ratio=2.000] |
| 28 | 1 | Felsenstein 84 | [Bf:0.30 0.33 0.21 0.16, t/t ratio=2.000] |
| 29 | 1 | Felsenstein 84 | [Bf:0.29 0.21 0.22 0.29, t/t ratio=2.000] |
| 30 | 1 | Felsenstein 84 | [Bf:0.21 0.22 0.36 0.21, t/t ratio=2.000] |
| 31 | 1 | Felsenstein 84 | [Bf:0.15 0.31 0.25 0.29, t/t ratio=2.000] |
| 32 | 1 | Felsenstein 84 | [Bf:0.26 0.25 0.21 0.29, t/t ratio=2.000] |
| 33 | 1 | Felsenstein 84 | [Bf:0.21 0.23 0.32 0.24, t/t ratio=2.000] |
| 34 | 1 | Felsenstein 84 | [Bf:0.16 0.26 0.38 0.20, t/t ratio=2.000] |

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| 35 | 1 | Felsenstein 84 | [Bf:0.22 0.27 0.30 0.21, t/t ratio=2.000] |
| 36 | 1 | Felsenstein 84 | [Bf:0.31 0.23 0.23 0.23, t/t ratio=2.000] |
| 37 | 1 | Felsenstein 84 | [Bf:0.27 0.22 0.21 0.30, t/t ratio=2.000] |
| 38 | 1 | Felsenstein 84 | [Bf:0.26 0.28 0.19 0.26, t/t ratio=2.000] |
| 39 | 1 | Felsenstein 84 | [Bf:0.18 0.31 0.31 0.19, t/t ratio=2.000] |
| 40 | 1 | Felsenstein 84 | [Bf:0.22 0.36 0.29 0.13, t/t ratio=2.000] |
| 41 | 1 | Felsenstein 84 | [Bf:0.31 0.13 0.20 0.36, t/t ratio=2.000] |
| 42 | 1 | Felsenstein 84 | [Bf:0.26 0.27 0.18 0.29, t/t ratio=2.000] |
| 43 | 1 | Felsenstein 84 | [Bf:0.17 0.31 0.38 0.14, t/t ratio=2.000] |
| 44 | 1 | Felsenstein 84 | [Bf:0.23 0.39 0.23 0.15, t/t ratio=2.000] |
| 45 | 1 | Felsenstein 84 | [Bf:0.31 0.21 0.24 0.24, t/t ratio=2.000] |
| 46 | 1 | Felsenstein 84 | [Bf:0.26 0.31 0.20 0.22, t/t ratio=2.000] |
| 47 | 1 | Felsenstein 84 | [Bf:0.25 0.21 0.34 0.20, t/t ratio=2.000] |
| 48 | 1 | Felsenstein 84 | [Bf:0.36 0.18 0.24 0.22, t/t ratio=2.000] |
| 49 | 1 | Felsenstein 84 | [Bf:0.31 0.17 0.27 0.24, t/t ratio=2.000] |
| 50 | 1 | Felsenstein 84 | [Bf:0.23 0.23 0.31 0.22, t/t ratio=2.000] |
| 51 | 1 | Felsenstein 84 | [Bf:0.31 0.26 0.34 0.09, t/t ratio=2.000] |
| 52 | 1 | Felsenstein 84 | [Bf:0.20 0.34 0.31 0.16, t/t ratio=2.000] |
| 53 | 1 | Felsenstein 84 | [Bf:0.17 0.29 0.33 0.20, t/t ratio=2.000] |
| 54 | 1 | Felsenstein 84 | [Bf:0.24 0.24 0.24 0.27, t/t ratio=2.000] |
| 55 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.25 0.25, t/t ratio=2.000] |
| 56 | 1 | Felsenstein 84 | [Bf:0.38 0.19 0.20 0.24, t/t ratio=2.000] |
| 57 | 1 | Felsenstein 84 | [Bf:0.14 0.31 0.24 0.31, t/t ratio=2.000] |
| 58 | 1 | Felsenstein 84 | [Bf:0.16 0.32 0.27 0.24, t/t ratio=2.000] |
| 59 | 1 | Felsenstein 84 | [Bf:0.27 0.20 0.32 0.21, t/t ratio=2.000] |
| 60 | 1 | Felsenstein 84 | [Bf:0.22 0.25 0.34 0.19, t/t ratio=2.000] |
| 61 | 1 | Felsenstein 84 | [Bf:0.08 0.22 0.35 0.35, t/t ratio=2.000] |
| 62 | 1 | Felsenstein 84 | [Bf:0.17 0.23 0.39 0.20, t/t ratio=2.000] |
| 63 | 1 | Felsenstein 84 | [Bf:0.25 0.19 0.35 0.21, t/t ratio=2.000] |
| 64 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.31 0.20, t/t ratio=2.000] |
| 65 | 1 | Felsenstein 84 | [Bf:0.23 0.25 0.29 0.23, t/t ratio=2.000] |
| 66 | 1 | Felsenstein 84 | [Bf:0.32 0.23 0.24 0.21, t/t ratio=2.000] |
| 67 | 1 | Felsenstein 84 | [Bf:0.26 0.38 0.08 0.29, t/t ratio=2.000] |
| 68 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.31 0.19, t/t ratio=2.000] |
| 69 | 1 | Felsenstein 84 | [Bf:0.23 0.26 0.24 0.26, t/t ratio=2.000] |
| 70 | 1 | Felsenstein 84 | [Bf:0.23 0.35 0.22 0.19, t/t ratio=2.000] |
| 71 | 1 | Felsenstein 84 | [Bf:0.33 0.16 0.24 0.26, t/t ratio=2.000] |
| 72 | 1 | Felsenstein 84 | [Bf:0.24 0.32 0.16 0.28, t/t ratio=2.000] |
| 73 | 1 | Felsenstein 84 | [Bf:0.17 0.24 0.34 0.25, t/t ratio=2.000] |
| 74 | 1 | Felsenstein 84 | [Bf:0.19 0.33 0.28 0.20, t/t ratio=2.000] |
| 75 | 1 | Felsenstein 84 | [Bf:0.31 0.15 0.34 0.20, t/t ratio=2.000] |
| 76 | 1 | Felsenstein 84 | [Bf:0.25 0.14 0.24 0.37, t/t ratio=2.000] |
| 77 | 1 | Felsenstein 84 | [Bf:0.13 0.37 0.29 0.21, t/t ratio=2.000] |
| 78 | 1 | Felsenstein 84 | [Bf:0.19 0.27 0.34 0.21, t/t ratio=2.000] |
| 79 | 1 | Felsenstein 84 | [Bf:0.24 0.20 0.31 0.25, t/t ratio=2.000] |

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| 80 | 1 | Felsenstein 84 | [Bf:0.22 0.17 0.28 0.33, t/t ratio=2.000] |
| 81 | 1 | Felsenstein 84 | [Bf:0.21 0.34 0.28 0.16, t/t ratio=2.000] |
| 82 | 1 | Felsenstein 84 | [Bf:0.23 0.28 0.29 0.21, t/t ratio=2.000] |
| 83 | 1 | Felsenstein 84 | [Bf:0.20 0.30 0.11 0.38, t/t ratio=2.000] |
| 84 | 1 | Felsenstein 84 | [Bf:0.31 0.25 0.25 0.20, t/t ratio=2.000] |
| 85 | 1 | Felsenstein 84 | [Bf:0.23 0.16 0.39 0.21, t/t ratio=2.000] |
| 86 | 1 | Felsenstein 84 | [Bf:0.20 0.25 0.31 0.24, t/t ratio=2.000] |
| 87 | 1 | Felsenstein 84 | [Bf:0.19 0.26 0.34 0.21, t/t ratio=2.000] |
| 88 | 1 | Felsenstein 84 | [Bf:0.31 0.20 0.31 0.18, t/t ratio=2.000] |
| 89 | 1 | Felsenstein 84 | [Bf:0.29 0.22 0.26 0.22, t/t ratio=2.000] |
| 90 | 1 | Felsenstein 84 | [Bf:0.18 0.29 0.23 0.29, t/t ratio=2.000] |
| 91 | 1 | Felsenstein 84 | [Bf:0.30 0.20 0.17 0.33, t/t ratio=2.000] |
| 92 | 1 | Felsenstein 84 | [Bf:0.29 0.25 0.21 0.25, t/t ratio=2.000] |
| 93 | 1 | Felsenstein 84 | [Bf:0.17 0.29 0.31 0.23, t/t ratio=2.000] |
| 94 | 1 | Felsenstein 84 | [Bf:0.20 0.25 0.22 0.33, t/t ratio=2.000] |
| 95 | 1 | Felsenstein 84 | [Bf:0.23 0.29 0.24 0.23, t/t ratio=2.000] |
| 96 | 1 | Felsenstein 84 | [Bf:0.23 0.23 0.22 0.32, t/t ratio=2.000] |
| 97 | 1 | Felsenstein 84 | [Bf:0.29 0.20 0.34 0.16, t/t ratio=2.000] |
| 98 | 1 | Felsenstein 84 | [Bf:0.34 0.21 0.15 0.30, t/t ratio=2.000] |
| 99 | 1 | Felsenstein 84 | [Bf:0.16 0.31 0.32 0.21, t/t ratio=2.000] |
| 100 | 1 | Felsenstein 84 | [Bf:0.23 0.28 0.23 0.26, t/t ratio=2.000] |
| 101 | 1 | Felsenstein 84 | [Bf:0.16 0.39 0.29 0.16, t/t ratio=2.000] |
| 102 | 1 | Felsenstein 84 | [Bf:0.27 0.31 0.22 0.20, t/t ratio=2.000] |
| 103 | 1 | Felsenstein 84 | [Bf:0.30 0.31 0.20 0.19, t/t ratio=2.000] |
| 104 | 1 | Felsenstein 84 | [Bf:0.23 0.23 0.25 0.28, t/t ratio=2.000] |
| 105 | 1 | Felsenstein 84 | [Bf:0.24 0.32 0.28 0.16, t/t ratio=2.000] |
| 106 | 1 | Felsenstein 84 | [Bf:0.16 0.28 0.25 0.31, t/t ratio=2.000] |
| 107 | 1 | Felsenstein 84 | [Bf:0.26 0.16 0.31 0.27, t/t ratio=2.000] |
| 108 | 1 | Felsenstein 84 | [Bf:0.27 0.21 0.22 0.30, t/t ratio=2.000] |
| 109 | 1 | Felsenstein 84 | [Bf:0.13 0.27 0.35 0.25, t/t ratio=2.000] |
| 110 | 1 | Felsenstein 84 | [Bf:0.37 0.24 0.26 0.12, t/t ratio=2.000] |
| 111 | 1 | Felsenstein 84 | [Bf:0.19 0.30 0.31 0.21, t/t ratio=2.000] |
| 112 | 1 | Felsenstein 84 | [Bf:0.34 0.16 0.31 0.18, t/t ratio=2.000] |
| 113 | 1 | Felsenstein 84 | [Bf:0.27 0.19 0.26 0.28, t/t ratio=2.000] |
| 114 | 1 | Felsenstein 84 | [Bf:0.33 0.23 0.23 0.21, t/t ratio=2.000] |
| 115 | 1 | Felsenstein 84 | [Bf:0.21 0.26 0.29 0.24, t/t ratio=2.000] |
| 116 | 1 | Felsenstein 84 | [Bf:0.21 0.24 0.42 0.14, t/t ratio=2.000] |
| 117 | 1 | Felsenstein 84 | [Bf:0.23 0.23 0.27 0.27, t/t ratio=2.000] |
| 118 | 1 | Felsenstein 84 | [Bf:0.22 0.24 0.28 0.25, t/t ratio=2.000] |
| 119 | 1 | Felsenstein 84 | [Bf:0.26 0.23 0.25 0.26, t/t ratio=2.000] |
| 120 | 1 | Felsenstein 84 | [Bf:0.27 0.33 0.23 0.17, t/t ratio=2.000] |
| 121 | 1 | Felsenstein 84 | [Bf:0.24 0.25 0.25 0.26, t/t ratio=2.000] |
| 122 | 1 | Felsenstein 84 | [Bf:0.14 0.23 0.40 0.23, t/t ratio=2.000] |
| 123 | 1 | Felsenstein 84 | [Bf:0.16 0.28 0.22 0.34, t/t ratio=2.000] |
| 124 | 1 | Felsenstein 84 | [Bf:0.21 0.23 0.34 0.23, t/t ratio=2.000] |

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| 125 | 1 | Felsenstein 84 | [Bf:0.32 0.29 0.19 0.19, t/t ratio=2.000] |
| 126 | 1 | Felsenstein 84 | [Bf:0.21 0.29 0.31 0.19, t/t ratio=2.000] |
| 127 | 1 | Felsenstein 84 | [Bf:0.27 0.25 0.23 0.24, t/t ratio=2.000] |
| 128 | 1 | Felsenstein 84 | [Bf:0.27 0.30 0.14 0.28, t/t ratio=2.000] |
| 129 | 1 | Felsenstein 84 | [Bf:0.27 0.16 0.33 0.24, t/t ratio=2.000] |
| 130 | 1 | Felsenstein 84 | [Bf:0.21 0.28 0.23 0.27, t/t ratio=2.000] |
| 131 | 1 | Felsenstein 84 | [Bf:0.24 0.25 0.27 0.24, t/t ratio=2.000] |
| 132 | 1 | Felsenstein 84 | [Bf:0.32 0.26 0.25 0.17, t/t ratio=2.000] |
| 133 | 1 | Felsenstein 84 | [Bf:0.35 0.19 0.21 0.26, t/t ratio=2.000] |
| 134 | 1 | Felsenstein 84 | [Bf:0.26 0.20 0.29 0.25, t/t ratio=2.000] |
| 135 | 1 | Felsenstein 84 | [Bf:0.23 0.29 0.26 0.21, t/t ratio=2.000] |
| 136 | 1 | Felsenstein 84 | [Bf:0.24 0.31 0.27 0.19, t/t ratio=2.000] |
| 137 | 1 | Felsenstein 84 | [Bf:0.21 0.22 0.28 0.28, t/t ratio=2.000] |
| 138 | 1 | Felsenstein 84 | [Bf:0.34 0.13 0.23 0.30, t/t ratio=2.000] |
| 139 | 1 | Felsenstein 84 | [Bf:0.17 0.34 0.26 0.23, t/t ratio=2.000] |
| 140 | 1 | Felsenstein 84 | [Bf:0.28 0.30 0.31 0.11, t/t ratio=2.000] |
| 141 | 1 | Felsenstein 84 | [Bf:0.32 0.26 0.19 0.23, t/t ratio=2.000] |
| 142 | 1 | Felsenstein 84 | [Bf:0.20 0.34 0.22 0.24, t/t ratio=2.000] |
| 143 | 1 | Felsenstein 84 | [Bf:0.21 0.16 0.42 0.21, t/t ratio=2.000] |
| 144 | 1 | Felsenstein 84 | [Bf:0.32 0.23 0.25 0.20, t/t ratio=2.000] |
| 145 | 1 | Felsenstein 84 | [Bf:0.27 0.24 0.24 0.25, t/t ratio=2.000] |
| 146 | 1 | Felsenstein 84 | [Bf:0.17 0.31 0.29 0.22, t/t ratio=2.000] |
| 147 | 1 | Felsenstein 84 | [Bf:0.28 0.33 0.23 0.16, t/t ratio=2.000] |
| 148 | 1 | Felsenstein 84 | [Bf:0.19 0.29 0.32 0.21, t/t ratio=2.000] |
| 149 | 1 | Felsenstein 84 | [Bf:0.29 0.21 0.24 0.26, t/t ratio=2.000] |
| 150 | 1 | Felsenstein 84 | [Bf:0.34 0.18 0.24 0.24, t/t ratio=2.000] |
| 151 | 1 | Felsenstein 84 | [Bf:0.23 0.27 0.23 0.27, t/t ratio=2.000] |
| 152 | 1 | Felsenstein 84 | [Bf:0.21 0.31 0.32 0.16, t/t ratio=2.000] |
| 153 | 1 | Felsenstein 84 | [Bf:0.14 0.38 0.26 0.23, t/t ratio=2.000] |
| 154 | 1 | Felsenstein 84 | [Bf:0.23 0.18 0.22 0.37, t/t ratio=2.000] |
| 155 | 1 | Felsenstein 84 | [Bf:0.27 0.25 0.18 0.30, t/t ratio=2.000] |
| 156 | 1 | Felsenstein 84 | [Bf:0.32 0.15 0.21 0.32, t/t ratio=2.000] |
| 157 | 1 | Felsenstein 84 | [Bf:0.30 0.34 0.21 0.14, t/t ratio=2.000] |
| 158 | 1 | Felsenstein 84 | [Bf:0.22 0.26 0.32 0.21, t/t ratio=2.000] |
| 159 | 1 | Felsenstein 84 | [Bf:0.33 0.09 0.27 0.31, t/t ratio=2.000] |
| 160 | 1 | Felsenstein 84 | [Bf:0.20 0.26 0.36 0.18, t/t ratio=2.000] |
| 161 | 1 | Felsenstein 84 | [Bf:0.34 0.20 0.22 0.24, t/t ratio=2.000] |
| 162 | 1 | Felsenstein 84 | [Bf:0.29 0.26 0.19 0.27, t/t ratio=2.000] |
| 163 | 1 | Felsenstein 84 | [Bf:0.20 0.27 0.29 0.24, t/t ratio=2.000] |
| 164 | 1 | Felsenstein 84 | [Bf:0.25 0.21 0.29 0.25, t/t ratio=2.000] |
| 165 | 1 | Felsenstein 84 | [Bf:0.23 0.18 0.24 0.35, t/t ratio=2.000] |
| 166 | 1 | Felsenstein 84 | [Bf:0.21 0.24 0.33 0.23, t/t ratio=2.000] |
| 167 | 1 | Felsenstein 84 | [Bf:0.26 0.22 0.23 0.29, t/t ratio=2.000] |
| 168 | 1 | Felsenstein 84 | [Bf:0.23 0.25 0.23 0.30, t/t ratio=2.000] |
| 169 | 1 | Felsenstein 84 | [Bf:0.27 0.32 0.26 0.16, t/t ratio=2.000] |

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| 170 | 1 | Felsenstein 84 | [Bf:0.24 0.31 0.26 0.19, t/t ratio=2.000] |
| 171 | 1 | Felsenstein 84 | [Bf:0.18 0.31 0.32 0.19, t/t ratio=2.000] |
| 172 | 1 | Felsenstein 84 | [Bf:0.24 0.18 0.25 0.33, t/t ratio=2.000] |
| 173 | 1 | Felsenstein 84 | [Bf:0.28 0.18 0.26 0.28, t/t ratio=2.000] |
| 174 | 1 | Felsenstein 84 | [Bf:0.24 0.20 0.37 0.18, t/t ratio=2.000] |
| 175 | 1 | Felsenstein 84 | [Bf:0.20 0.39 0.22 0.19, t/t ratio=2.000] |
| 176 | 1 | Felsenstein 84 | [Bf:0.29 0.24 0.30 0.17, t/t ratio=2.000] |
| 177 | 1 | Felsenstein 84 | [Bf:0.27 0.23 0.13 0.37, t/t ratio=2.000] |
| 178 | 1 | Felsenstein 84 | [Bf:0.26 0.20 0.27 0.27, t/t ratio=2.000] |
| 179 | 1 | Felsenstein 84 | [Bf:0.27 0.31 0.16 0.26, t/t ratio=2.000] |
| 180 | 1 | Felsenstein 84 | [Bf:0.28 0.21 0.27 0.24, t/t ratio=2.000] |
| 181 | 1 | Felsenstein 84 | [Bf:0.33 0.23 0.26 0.19, t/t ratio=2.000] |
| 182 | 1 | Felsenstein 84 | [Bf:0.21 0.28 0.30 0.21, t/t ratio=2.000] |
| 183 | 1 | Felsenstein 84 | [Bf:0.24 0.21 0.29 0.26, t/t ratio=2.000] |
| 184 | 1 | Felsenstein 84 | [Bf:0.22 0.28 0.31 0.18, t/t ratio=2.000] |
| 185 | 1 | Felsenstein 84 | [Bf:0.16 0.21 0.39 0.24, t/t ratio=2.000] |
| 186 | 1 | Felsenstein 84 | [Bf:0.27 0.18 0.26 0.28, t/t ratio=2.000] |
| 187 | 1 | Felsenstein 84 | [Bf:0.21 0.12 0.34 0.33, t/t ratio=2.000] |
| 188 | 1 | Felsenstein 84 | [Bf:0.39 0.23 0.18 0.20, t/t ratio=2.000] |
| 189 | 1 | Felsenstein 84 | [Bf:0.24 0.24 0.23 0.30, t/t ratio=2.000] |
| 190 | 1 | Felsenstein 84 | [Bf:0.17 0.31 0.32 0.20, t/t ratio=2.000] |
| 191 | 1 | Felsenstein 84 | [Bf:0.17 0.23 0.41 0.19, t/t ratio=2.000] |
| 192 | 1 | Felsenstein 84 | [Bf:0.26 0.27 0.17 0.30, t/t ratio=2.000] |
| 193 | 1 | Felsenstein 84 | [Bf:0.21 0.28 0.30 0.21, t/t ratio=2.000] |
| 194 | 1 | Felsenstein 84 | [Bf:0.24 0.31 0.20 0.25, t/t ratio=2.000] |
| 195 | 1 | Felsenstein 84 | [Bf:0.28 0.21 0.23 0.28, t/t ratio=2.000] |
| 196 | 1 | Felsenstein 84 | [Bf:0.27 0.25 0.22 0.26, t/t ratio=2.000] |
| 197 | 1 | Felsenstein 84 | [Bf:0.26 0.21 0.32 0.22, t/t ratio=2.000] |
| 198 | 1 | Felsenstein 84 | [Bf:0.19 0.23 0.32 0.25, t/t ratio=2.000] |
| 199 | 1 | Felsenstein 84 | [Bf:0.22 0.34 0.31 0.13, t/t ratio=2.000] |
| 200 | 1 | Felsenstein 84 | [Bf:0.29 0.19 0.24 0.29, t/t ratio=2.000] |
| 201 | 1 | Felsenstein 84 | [Bf:0.25 0.26 0.18 0.31, t/t ratio=2.000] |
| 202 | 1 | Felsenstein 84 | [Bf:0.21 0.29 0.35 0.16, t/t ratio=2.000] |
| 203 | 1 | Felsenstein 84 | [Bf:0.26 0.28 0.26 0.20, t/t ratio=2.000] |
| 204 | 1 | Felsenstein 84 | [Bf:0.20 0.32 0.20 0.28, t/t ratio=2.000] |
| 205 | 1 | Felsenstein 84 | [Bf:0.22 0.29 0.28 0.21, t/t ratio=2.000] |
| 206 | 1 | Felsenstein 84 | [Bf:0.29 0.25 0.23 0.24, t/t ratio=2.000] |
| 207 | 1 | Felsenstein 84 | [Bf:0.26 0.28 0.30 0.16, t/t ratio=2.000] |
| 208 | 1 | Felsenstein 84 | [Bf:0.32 0.25 0.21 0.23, t/t ratio=2.000] |
| 209 | 1 | Felsenstein 84 | [Bf:0.30 0.22 0.30 0.18, t/t ratio=2.000] |
| 210 | 1 | Felsenstein 84 | [Bf:0.27 0.20 0.26 0.26, t/t ratio=2.000] |
| 211 | 1 | Felsenstein 84 | [Bf:0.14 0.31 0.35 0.20, t/t ratio=2.000] |
| 212 | 1 | Felsenstein 84 | [Bf:0.22 0.25 0.23 0.30, t/t ratio=2.000] |
| 213 | 1 | Felsenstein 84 | [Bf:0.17 0.37 0.28 0.18, t/t ratio=2.000] |
| 214 | 1 | Felsenstein 84 | [Bf:0.21 0.27 0.23 0.29, t/t ratio=2.000] |

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| 215 | 1 | Felsenstein 84 | [Bf:0.22 0.24 0.31 0.23, t/t ratio=2.000] |
| 216 | 1 | Felsenstein 84 | [Bf:0.21 0.28 0.33 0.19, t/t ratio=2.000] |
| 217 | 1 | Felsenstein 84 | [Bf:0.17 0.23 0.30 0.30, t/t ratio=2.000] |
| 218 | 1 | Felsenstein 84 | [Bf:0.31 0.22 0.23 0.23, t/t ratio=2.000] |
| 219 | 1 | Felsenstein 84 | [Bf:0.20 0.25 0.27 0.28, t/t ratio=2.000] |
| 220 | 1 | Felsenstein 84 | [Bf:0.26 0.23 0.18 0.32, t/t ratio=2.000] |
| 221 | 1 | Felsenstein 84 | [Bf:0.26 0.25 0.33 0.16, t/t ratio=2.000] |
| 222 | 1 | Felsenstein 84 | [Bf:0.24 0.29 0.29 0.17, t/t ratio=2.000] |
| 223 | 1 | Felsenstein 84 | [Bf:0.20 0.29 0.29 0.22, t/t ratio=2.000] |
| 224 | 1 | Felsenstein 84 | [Bf:0.29 0.29 0.22 0.21, t/t ratio=2.000] |
| 225 | 1 | Felsenstein 84 | [Bf:0.21 0.28 0.34 0.16, t/t ratio=2.000] |
| 226 | 1 | Felsenstein 84 | [Bf:0.16 0.28 0.35 0.21, t/t ratio=2.000] |
| 227 | 1 | Felsenstein 84 | [Bf:0.26 0.16 0.41 0.16, t/t ratio=2.000] |
| 228 | 1 | Felsenstein 84 | [Bf:0.24 0.21 0.21 0.33, t/t ratio=2.000] |
| 229 | 1 | Felsenstein 84 | [Bf:0.27 0.20 0.24 0.29, t/t ratio=2.000] |
| 230 | 1 | Felsenstein 84 | [Bf:0.17 0.29 0.26 0.29, t/t ratio=2.000] |
| 231 | 1 | Felsenstein 84 | [Bf:0.29 0.27 0.15 0.29, t/t ratio=2.000] |
| 232 | 1 | Felsenstein 84 | [Bf:0.19 0.33 0.17 0.31, t/t ratio=2.000] |
| 233 | 1 | Felsenstein 84 | [Bf:0.16 0.31 0.30 0.23, t/t ratio=2.000] |
| 234 | 1 | Felsenstein 84 | [Bf:0.14 0.21 0.38 0.27, t/t ratio=2.000] |
| 235 | 1 | Felsenstein 84 | [Bf:0.25 0.32 0.21 0.23, t/t ratio=2.000] |
| 236 | 1 | Felsenstein 84 | [Bf:0.17 0.26 0.38 0.18, t/t ratio=2.000] |
| 237 | 1 | Felsenstein 84 | [Bf:0.32 0.24 0.15 0.28, t/t ratio=2.000] |
| 238 | 1 | Felsenstein 84 | [Bf:0.24 0.20 0.24 0.31, t/t ratio=2.000] |
| 239 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.17 0.32, t/t ratio=2.000] |
| 240 | 1 | Felsenstein 84 | [Bf:0.25 0.24 0.21 0.30, t/t ratio=2.000] |
| 241 | 1 | Felsenstein 84 | [Bf:0.29 0.27 0.30 0.14, t/t ratio=2.000] |
| 242 | 1 | Felsenstein 84 | [Bf:0.17 0.32 0.28 0.23, t/t ratio=2.000] |
| 243 | 1 | Felsenstein 84 | [Bf:0.30 0.23 0.20 0.26, t/t ratio=2.000] |
| 244 | 1 | Felsenstein 84 | [Bf:0.21 0.24 0.33 0.22, t/t ratio=2.000] |
| 245 | 1 | Felsenstein 84 | [Bf:0.18 0.26 0.37 0.18, t/t ratio=2.000] |
| 246 | 1 | Felsenstein 84 | [Bf:0.25 0.25 0.21 0.29, t/t ratio=2.000] |
| 247 | 1 | Felsenstein 84 | [Bf:0.23 0.33 0.22 0.22, t/t ratio=2.000] |
| 248 | 1 | Felsenstein 84 | [Bf:0.23 0.21 0.28 0.28, t/t ratio=2.000] |
| 249 | 1 | Felsenstein 84 | [Bf:0.36 0.14 0.34 0.17, t/t ratio=2.000] |
| 250 | 1 | Felsenstein 84 | [Bf:0.26 0.31 0.26 0.18, t/t ratio=2.000] |
| 251 | 1 | Felsenstein 84 | [Bf:0.20 0.33 0.31 0.16, t/t ratio=2.000] |
| 252 | 1 | Felsenstein 84 | [Bf:0.29 0.20 0.23 0.29, t/t ratio=2.000] |
| 253 | 1 | Felsenstein 84 | [Bf:0.23 0.28 0.23 0.26, t/t ratio=2.000] |
| 254 | 1 | Felsenstein 84 | [Bf:0.21 0.22 0.26 0.30, t/t ratio=2.000] |
| 255 | 1 | Felsenstein 84 | [Bf:0.22 0.28 0.33 0.17, t/t ratio=2.000] |
| 256 | 1 | Felsenstein 84 | [Bf:0.20 0.27 0.19 0.34, t/t ratio=2.000] |
| 257 | 1 | Felsenstein 84 | [Bf:0.19 0.29 0.29 0.23, t/t ratio=2.000] |
| 258 | 1 | Felsenstein 84 | [Bf:0.23 0.25 0.35 0.17, t/t ratio=2.000] |
| 259 | 1 | Felsenstein 84 | [Bf:0.32 0.24 0.23 0.21, t/t ratio=2.000] |

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| 260 | 1 | Felsenstein 84 | [Bf:0.15 0.32 0.34 0.19, t/t ratio=2.000] |
| 261 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.32 0.17, t/t ratio=2.000] |
| 262 | 1 | Felsenstein 84 | [Bf:0.24 0.31 0.26 0.20, t/t ratio=2.000] |
| 263 | 1 | Felsenstein 84 | [Bf:0.33 0.16 0.26 0.26, t/t ratio=2.000] |
| 264 | 1 | Felsenstein 84 | [Bf:0.31 0.19 0.31 0.18, t/t ratio=2.000] |
| 265 | 1 | Felsenstein 84 | [Bf:0.17 0.24 0.33 0.26, t/t ratio=2.000] |
| 266 | 1 | Felsenstein 84 | [Bf:0.25 0.22 0.39 0.15, t/t ratio=2.000] |
| 267 | 1 | Felsenstein 84 | [Bf:0.31 0.18 0.26 0.25, t/t ratio=2.000] |
| 268 | 1 | Felsenstein 84 | [Bf:0.16 0.30 0.18 0.35, t/t ratio=2.000] |
| 269 | 1 | Felsenstein 84 | [Bf:0.22 0.25 0.24 0.29, t/t ratio=2.000] |
| 270 | 1 | Felsenstein 84 | [Bf:0.33 0.24 0.21 0.23, t/t ratio=2.000] |
| 271 | 1 | Felsenstein 84 | [Bf:0.21 0.35 0.20 0.24, t/t ratio=2.000] |
| 272 | 1 | Felsenstein 84 | [Bf:0.36 0.09 0.39 0.15, t/t ratio=2.000] |
| 273 | 1 | Felsenstein 84 | [Bf:0.26 0.17 0.36 0.21, t/t ratio=2.000] |
| 274 | 1 | Felsenstein 84 | [Bf:0.25 0.33 0.19 0.23, t/t ratio=2.000] |
| 275 | 1 | Felsenstein 84 | [Bf:0.24 0.17 0.31 0.28, t/t ratio=2.000] |
| 276 | 1 | Felsenstein 84 | [Bf:0.21 0.20 0.23 0.35, t/t ratio=2.000] |
| 277 | 1 | Felsenstein 84 | [Bf:0.27 0.24 0.22 0.27, t/t ratio=2.000] |
| 278 | 1 | Felsenstein 84 | [Bf:0.21 0.23 0.28 0.28, t/t ratio=2.000] |
| 279 | 1 | Felsenstein 84 | [Bf:0.27 0.22 0.29 0.22, t/t ratio=2.000] |
| 280 | 1 | Felsenstein 84 | [Bf:0.33 0.18 0.23 0.25, t/t ratio=2.000] |
| 281 | 1 | Felsenstein 84 | [Bf:0.26 0.24 0.22 0.28, t/t ratio=2.000] |
| 282 | 1 | Felsenstein 84 | [Bf:0.17 0.37 0.27 0.19, t/t ratio=2.000] |
| 283 | 1 | Felsenstein 84 | [Bf:0.19 0.39 0.22 0.19, t/t ratio=2.000] |
| 284 | 1 | Felsenstein 84 | [Bf:0.24 0.20 0.38 0.19, t/t ratio=2.000] |
| 285 | 1 | Felsenstein 84 | [Bf:0.16 0.24 0.38 0.21, t/t ratio=2.000] |
| 286 | 1 | Felsenstein 84 | [Bf:0.21 0.31 0.21 0.26, t/t ratio=2.000] |
| 287 | 1 | Felsenstein 84 | [Bf:0.31 0.19 0.30 0.21, t/t ratio=2.000] |
| 288 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.28 0.22, t/t ratio=2.000] |
| 289 | 1 | Felsenstein 84 | [Bf:0.28 0.18 0.17 0.37, t/t ratio=2.000] |
| 290 | 1 | Felsenstein 84 | [Bf:0.29 0.19 0.26 0.26, t/t ratio=2.000] |
| 291 | 1 | Felsenstein 84 | [Bf:0.18 0.20 0.30 0.32, t/t ratio=2.000] |
| 292 | 1 | Felsenstein 84 | [Bf:0.19 0.29 0.31 0.22, t/t ratio=2.000] |
| 293 | 1 | Felsenstein 84 | [Bf:0.28 0.18 0.26 0.28, t/t ratio=2.000] |
| 294 | 1 | Felsenstein 84 | [Bf:0.27 0.29 0.26 0.18, t/t ratio=2.000] |
| 295 | 1 | Felsenstein 84 | [Bf:0.25 0.21 0.31 0.24, t/t ratio=2.000] |
| 296 | 1 | Felsenstein 84 | [Bf:0.21 0.30 0.30 0.19, t/t ratio=2.000] |
| 297 | 1 | Felsenstein 84 | [Bf:0.31 0.17 0.24 0.29, t/t ratio=2.000] |
| 298 | 1 | Felsenstein 84 | [Bf:0.21 0.28 0.33 0.19, t/t ratio=2.000] |
| 299 | 1 | Felsenstein 84 | [Bf:0.20 0.24 0.36 0.20, t/t ratio=2.000] |
| 300 | 1 | Felsenstein 84 | [Bf:0.22 0.29 0.26 0.22, t/t ratio=2.000] |
| 301 | 1 | Felsenstein 84 | [Bf:0.28 0.24 0.22 0.26, t/t ratio=2.000] |
| 302 | 1 | Felsenstein 84 | [Bf:0.21 0.31 0.23 0.25, t/t ratio=2.000] |
| 303 | 1 | Felsenstein 84 | [Bf:0.15 0.36 0.32 0.17, t/t ratio=2.000] |
| 304 | 1 | Felsenstein 84 | [Bf:0.27 0.28 0.28 0.17, t/t ratio=2.000] |

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| 305 | 1 | Felsenstein 84 | [Bf:0.21 0.26 0.27 0.26, t/t ratio=2.000] |
| 306 | 1 | Felsenstein 84 | [Bf:0.14 0.37 0.33 0.16, t/t ratio=2.000] |
| 307 | 1 | Felsenstein 84 | [Bf:0.22 0.23 0.28 0.28, t/t ratio=2.000] |
| 308 | 1 | Felsenstein 84 | [Bf:0.25 0.26 0.26 0.22, t/t ratio=2.000] |
| 309 | 1 | Felsenstein 84 | [Bf:0.27 0.28 0.26 0.19, t/t ratio=2.000] |
| 310 | 1 | Felsenstein 84 | [Bf:0.27 0.29 0.23 0.21, t/t ratio=2.000] |
| 311 | 1 | Felsenstein 84 | [Bf:0.28 0.24 0.29 0.20, t/t ratio=2.000] |
| 312 | 1 | Felsenstein 84 | [Bf:0.24 0.19 0.30 0.27, t/t ratio=2.000] |
| 313 | 1 | Felsenstein 84 | [Bf:0.27 0.31 0.23 0.19, t/t ratio=2.000] |
| 314 | 1 | Felsenstein 84 | [Bf:0.35 0.18 0.24 0.23, t/t ratio=2.000] |
| 315 | 1 | Felsenstein 84 | [Bf:0.16 0.25 0.36 0.23, t/t ratio=2.000] |
| 316 | 1 | Felsenstein 84 | [Bf:0.20 0.26 0.22 0.32, t/t ratio=2.000] |
| 317 | 1 | Felsenstein 84 | [Bf:0.32 0.15 0.25 0.28, t/t ratio=2.000] |
| 318 | 1 | Felsenstein 84 | [Bf:0.19 0.23 0.31 0.28, t/t ratio=2.000] |
| 319 | 1 | Felsenstein 84 | [Bf:0.17 0.30 0.28 0.24, t/t ratio=2.000] |
| 320 | 1 | Felsenstein 84 | [Bf:0.26 0.22 0.27 0.26, t/t ratio=2.000] |
| 321 | 1 | Felsenstein 84 | [Bf:0.26 0.26 0.27 0.20, t/t ratio=2.000] |
| 322 | 1 | Felsenstein 84 | [Bf:0.19 0.26 0.32 0.24, t/t ratio=2.000] |
| 323 | 1 | Felsenstein 84 | [Bf:0.29 0.17 0.31 0.23, t/t ratio=2.000] |
| 324 | 1 | Felsenstein 84 | [Bf:0.23 0.29 0.30 0.18, t/t ratio=2.000] |
| 325 | 1 | Felsenstein 84 | [Bf:0.16 0.29 0.31 0.24, t/t ratio=2.000] |
| 326 | 1 | Felsenstein 84 | [Bf:0.25 0.29 0.25 0.21, t/t ratio=2.000] |
| 327 | 1 | Felsenstein 84 | [Bf:0.26 0.26 0.25 0.23, t/t ratio=2.000] |
| 328 | 1 | Felsenstein 84 | [Bf:0.19 0.30 0.30 0.21, t/t ratio=2.000] |
| 329 | 1 | Felsenstein 84 | [Bf:0.16 0.28 0.34 0.21, t/t ratio=2.000] |
| 330 | 1 | Felsenstein 84 | [Bf:0.24 0.30 0.27 0.19, t/t ratio=2.000] |
| 331 | 1 | Felsenstein 84 | [Bf:0.11 0.38 0.34 0.17, t/t ratio=2.000] |
| 332 | 1 | Felsenstein 84 | [Bf:0.29 0.18 0.27 0.26, t/t ratio=2.000] |
| 333 | 1 | Felsenstein 84 | [Bf:0.28 0.28 0.25 0.19, t/t ratio=2.000] |
| 334 | 1 | Felsenstein 84 | [Bf:0.19 0.28 0.28 0.25, t/t ratio=2.000] |
| 335 | 1 | Felsenstein 84 | [Bf:0.25 0.29 0.19 0.27, t/t ratio=2.000] |
| 336 | 1 | Felsenstein 84 | [Bf:0.18 0.22 0.41 0.19, t/t ratio=2.000] |
| 337 | 1 | Felsenstein 84 | [Bf:0.13 0.42 0.26 0.19, t/t ratio=2.000] |
| 338 | 1 | Felsenstein 84 | [Bf:0.21 0.25 0.29 0.24, t/t ratio=2.000] |
| 339 | 1 | Felsenstein 84 | [Bf:0.25 0.25 0.35 0.15, t/t ratio=2.000] |
| 340 | 1 | Felsenstein 84 | [Bf:0.24 0.22 0.26 0.28, t/t ratio=2.000] |
| 341 | 1 | Felsenstein 84 | [Bf:0.30 0.24 0.28 0.19, t/t ratio=2.000] |
| 342 | 1 | Felsenstein 84 | [Bf:0.19 0.24 0.35 0.22, t/t ratio=2.000] |
| 343 | 1 | Felsenstein 84 | [Bf:0.19 0.32 0.31 0.17, t/t ratio=2.000] |
| 344 | 1 | Felsenstein 84 | [Bf:0.34 0.22 0.19 0.25, t/t ratio=2.000] |
| 345 | 1 | Felsenstein 84 | [Bf:0.23 0.25 0.24 0.27, t/t ratio=2.000] |
| 346 | 1 | Felsenstein 84 | [Bf:0.23 0.23 0.28 0.26, t/t ratio=2.000] |
| 347 | 1 | Felsenstein 84 | [Bf:0.28 0.14 0.23 0.35, t/t ratio=2.000] |
| 348 | 1 | Felsenstein 84 | [Bf:0.21 0.30 0.34 0.15, t/t ratio=2.000] |
| 349 | 1 | Felsenstein 84 | [Bf:0.22 0.30 0.30 0.18, t/t ratio=2.000] |

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| 350 | 1 | Felsenstein 84 | [Bf:0.26 0.25 0.20 0.29, t/t ratio=2.000] |
| 351 | 1 | Felsenstein 84 | [Bf:0.23 0.33 0.25 0.20, t/t ratio=2.000] |
| 352 | 1 | Felsenstein 84 | [Bf:0.26 0.23 0.25 0.26, t/t ratio=2.000] |
| 353 | 1 | Felsenstein 84 | [Bf:0.23 0.27 0.29 0.22, t/t ratio=2.000] |
| 354 | 1 | Felsenstein 84 | [Bf:0.30 0.27 0.20 0.24, t/t ratio=2.000] |
| 355 | 1 | Felsenstein 84 | [Bf:0.26 0.15 0.28 0.31, t/t ratio=2.000] |
| 356 | 1 | Felsenstein 84 | [Bf:0.26 0.26 0.27 0.21, t/t ratio=2.000] |
| 357 | 1 | Felsenstein 84 | [Bf:0.22 0.31 0.24 0.23, t/t ratio=2.000] |
| 358 | 1 | Felsenstein 84 | [Bf:0.24 0.21 0.37 0.18, t/t ratio=2.000] |
| 359 | 1 | Felsenstein 84 | [Bf:0.27 0.24 0.28 0.20, t/t ratio=2.000] |
| 360 | 1 | Felsenstein 84 | [Bf:0.30 0.21 0.27 0.23, t/t ratio=2.000] |
| 361 | 1 | Felsenstein 84 | [Bf:0.21 0.33 0.33 0.13, t/t ratio=2.000] |
| 362 | 1 | Felsenstein 84 | [Bf:0.36 0.25 0.18 0.21, t/t ratio=2.000] |
| 363 | 1 | Felsenstein 84 | [Bf:0.28 0.16 0.33 0.23, t/t ratio=2.000] |
| 364 | 1 | Felsenstein 84 | [Bf:0.16 0.34 0.30 0.20, t/t ratio=2.000] |
| 365 | 1 | Felsenstein 84 | [Bf:0.22 0.34 0.22 0.21, t/t ratio=2.000] |
| 366 | 1 | Felsenstein 84 | [Bf:0.21 0.30 0.31 0.18, t/t ratio=2.000] |
| 367 | 1 | Felsenstein 84 | [Bf:0.26 0.19 0.26 0.29, t/t ratio=2.000] |
| 368 | 1 | Felsenstein 84 | [Bf:0.18 0.29 0.29 0.24, t/t ratio=2.000] |
| 369 | 1 | Felsenstein 84 | [Bf:0.23 0.19 0.43 0.15, t/t ratio=2.000] |
| 370 | 1 | Felsenstein 84 | [Bf:0.20 0.28 0.18 0.34, t/t ratio=2.000] |
| 371 | 1 | Felsenstein 84 | [Bf:0.26 0.21 0.21 0.33, t/t ratio=2.000] |
| 372 | 1 | Felsenstein 84 | [Bf:0.29 0.20 0.22 0.29, t/t ratio=2.000] |
| 373 | 1 | Felsenstein 84 | [Bf:0.37 0.11 0.23 0.28, t/t ratio=2.000] |
| 374 | 1 | Felsenstein 84 | [Bf:0.26 0.34 0.25 0.15, t/t ratio=2.000] |
| 375 | 1 | Felsenstein 84 | [Bf:0.24 0.31 0.23 0.22, t/t ratio=2.000] |
| 376 | 1 | Felsenstein 84 | [Bf:0.18 0.19 0.47 0.16, t/t ratio=2.000] |
| 377 | 1 | Felsenstein 84 | [Bf:0.29 0.20 0.21 0.30, t/t ratio=2.000] |
| 378 | 1 | Felsenstein 84 | [Bf:0.32 0.17 0.35 0.17, t/t ratio=2.000] |
| 379 | 1 | Felsenstein 84 | [Bf:0.19 0.30 0.34 0.17, t/t ratio=2.000] |
| 380 | 1 | Felsenstein 84 | [Bf:0.27 0.25 0.20 0.28, t/t ratio=2.000] |
| 381 | 1 | Felsenstein 84 | [Bf:0.13 0.28 0.36 0.23, t/t ratio=2.000] |
| 382 | 1 | Felsenstein 84 | [Bf:0.26 0.15 0.34 0.25, t/t ratio=2.000] |
| 383 | 1 | Felsenstein 84 | [Bf:0.19 0.32 0.29 0.21, t/t ratio=2.000] |
| 384 | 1 | Felsenstein 84 | [Bf:0.32 0.13 0.38 0.17, t/t ratio=2.000] |
| 385 | 1 | Felsenstein 84 | [Bf:0.15 0.35 0.34 0.15, t/t ratio=2.000] |
| 386 | 1 | Felsenstein 84 | [Bf:0.18 0.39 0.27 0.16, t/t ratio=2.000] |
| 387 | 1 | Felsenstein 84 | [Bf:0.33 0.14 0.21 0.31, t/t ratio=2.000] |
| 388 | 1 | Felsenstein 84 | [Bf:0.25 0.21 0.26 0.28, t/t ratio=2.000] |
| 389 | 1 | Felsenstein 84 | [Bf:0.30 0.19 0.23 0.28, t/t ratio=2.000] |
| 390 | 1 | Felsenstein 84 | [Bf:0.30 0.19 0.25 0.26, t/t ratio=2.000] |
| 391 | 1 | Felsenstein 84 | [Bf:0.20 0.23 0.27 0.30, t/t ratio=2.000] |
| 392 | 1 | Felsenstein 84 | [Bf:0.20 0.25 0.32 0.23, t/t ratio=2.000] |
| 393 | 1 | Felsenstein 84 | [Bf:0.18 0.21 0.29 0.31, t/t ratio=2.000] |
| 394 | 1 | Felsenstein 84 | [Bf:0.20 0.27 0.24 0.29, t/t ratio=2.000] |

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| 395 | 1 | Felsenstein 84 | [Bf:0.24 0.23 0.26 0.28, t/t ratio=2.000] |
| 396 | 1 | Felsenstein 84 | [Bf:0.33 0.24 0.20 0.23, t/t ratio=2.000] |
| 397 | 1 | Felsenstein 84 | [Bf:0.13 0.31 0.32 0.23, t/t ratio=2.000] |
| 398 | 1 | Felsenstein 84 | [Bf:0.26 0.30 0.30 0.14, t/t ratio=2.000] |
| 399 | 1 | Felsenstein 84 | [Bf:0.23 0.23 0.24 0.30, t/t ratio=2.000] |
| 400 | 1 | Felsenstein 84 | [Bf:0.30 0.21 0.21 0.28, t/t ratio=2.000] |
| 401 | 1 | Felsenstein 84 | [Bf:0.24 0.24 0.18 0.34, t/t ratio=2.000] |
| 402 | 1 | Felsenstein 84 | [Bf:0.19 0.30 0.25 0.27, t/t ratio=2.000] |
| 403 | 1 | Felsenstein 84 | [Bf:0.24 0.23 0.25 0.29, t/t ratio=2.000] |
| 404 | 1 | Felsenstein 84 | [Bf:0.22 0.23 0.23 0.32, t/t ratio=2.000] |
| 405 | 1 | Felsenstein 84 | [Bf:0.25 0.25 0.26 0.23, t/t ratio=2.000] |
| 406 | 1 | Felsenstein 84 | [Bf:0.18 0.29 0.26 0.27, t/t ratio=2.000] |
| 407 | 1 | Felsenstein 84 | [Bf:0.20 0.30 0.30 0.21, t/t ratio=2.000] |
| 408 | 1 | Felsenstein 84 | [Bf:0.32 0.18 0.12 0.38, t/t ratio=2.000] |
| 409 | 1 | Felsenstein 84 | [Bf:0.17 0.21 0.31 0.32, t/t ratio=2.000] |
| 410 | 1 | Felsenstein 84 | [Bf:0.24 0.25 0.30 0.22, t/t ratio=2.000] |
| 411 | 1 | Felsenstein 84 | [Bf:0.21 0.25 0.25 0.29, t/t ratio=2.000] |
| 412 | 1 | Felsenstein 84 | [Bf:0.24 0.30 0.29 0.16, t/t ratio=2.000] |
| 413 | 1 | Felsenstein 84 | [Bf:0.31 0.17 0.23 0.29, t/t ratio=2.000] |
| 414 | 1 | Felsenstein 84 | [Bf:0.30 0.24 0.25 0.21, t/t ratio=2.000] |
| 415 | 1 | Felsenstein 84 | [Bf:0.14 0.35 0.32 0.18, t/t ratio=2.000] |
| 416 | 1 | Felsenstein 84 | [Bf:0.25 0.19 0.17 0.39, t/t ratio=2.000] |
| 417 | 1 | Felsenstein 84 | [Bf:0.17 0.34 0.29 0.19, t/t ratio=2.000] |
| 418 | 1 | Felsenstein 84 | [Bf:0.18 0.29 0.38 0.15, t/t ratio=2.000] |
| 419 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.26 0.24, t/t ratio=2.000] |
| 420 | 1 | Felsenstein 84 | [Bf:0.19 0.34 0.28 0.19, t/t ratio=2.000] |
| 421 | 1 | Felsenstein 84 | [Bf:0.22 0.25 0.29 0.24, t/t ratio=2.000] |
| 422 | 1 | Felsenstein 84 | [Bf:0.18 0.26 0.23 0.33, t/t ratio=2.000] |
| 423 | 1 | Felsenstein 84 | [Bf:0.27 0.29 0.22 0.22, t/t ratio=2.000] |
| 424 | 1 | Felsenstein 84 | [Bf:0.21 0.25 0.28 0.26, t/t ratio=2.000] |
| 425 | 1 | Felsenstein 84 | [Bf:0.32 0.14 0.23 0.32, t/t ratio=2.000] |
| 426 | 1 | Felsenstein 84 | [Bf:0.16 0.26 0.30 0.28, t/t ratio=2.000] |
| 427 | 1 | Felsenstein 84 | [Bf:0.20 0.23 0.38 0.19, t/t ratio=2.000] |
| 428 | 1 | Felsenstein 84 | [Bf:0.21 0.29 0.26 0.24, t/t ratio=2.000] |
| 429 | 1 | Felsenstein 84 | [Bf:0.27 0.27 0.27 0.19, t/t ratio=2.000] |
| 430 | 1 | Felsenstein 84 | [Bf:0.21 0.21 0.27 0.31, t/t ratio=2.000] |
| 431 | 1 | Felsenstein 84 | [Bf:0.23 0.25 0.28 0.24, t/t ratio=2.000] |
| 432 | 1 | Felsenstein 84 | [Bf:0.24 0.21 0.26 0.29, t/t ratio=2.000] |
| 433 | 1 | Felsenstein 84 | [Bf:0.23 0.21 0.35 0.21, t/t ratio=2.000] |
| 434 | 1 | Felsenstein 84 | [Bf:0.26 0.24 0.25 0.24, t/t ratio=2.000] |
| 435 | 1 | Felsenstein 84 | [Bf:0.23 0.25 0.26 0.26, t/t ratio=2.000] |
| 436 | 1 | Felsenstein 84 | [Bf:0.25 0.14 0.33 0.28, t/t ratio=2.000] |
| 437 | 1 | Felsenstein 84 | [Bf:0.19 0.27 0.21 0.33, t/t ratio=2.000] |
| 438 | 1 | Felsenstein 84 | [Bf:0.23 0.29 0.29 0.19, t/t ratio=2.000] |
| 439 | 1 | Felsenstein 84 | [Bf:0.26 0.27 0.26 0.21, t/t ratio=2.000] |

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| 440 | 1 | Felsenstein 84 | [Bf:0.14 0.27 0.31 0.29, t/t ratio=2.000] |
| 441 | 1 | Felsenstein 84 | [Bf:0.15 0.37 0.21 0.27, t/t ratio=2.000] |
| 442 | 1 | Felsenstein 84 | [Bf:0.19 0.20 0.29 0.32, t/t ratio=2.000] |
| 443 | 1 | Felsenstein 84 | [Bf:0.15 0.29 0.27 0.29, t/t ratio=2.000] |
| 444 | 1 | Felsenstein 84 | [Bf:0.16 0.24 0.34 0.26, t/t ratio=2.000] |
| 445 | 1 | Felsenstein 84 | [Bf:0.24 0.24 0.22 0.30, t/t ratio=2.000] |
| 446 | 1 | Felsenstein 84 | [Bf:0.33 0.21 0.26 0.20, t/t ratio=2.000] |
| 447 | 1 | Felsenstein 84 | [Bf:0.14 0.28 0.30 0.28, t/t ratio=2.000] |
| 448 | 1 | Felsenstein 84 | [Bf:0.37 0.18 0.22 0.23, t/t ratio=2.000] |
| 449 | 1 | Felsenstein 84 | [Bf:0.21 0.25 0.34 0.20, t/t ratio=2.000] |
| 450 | 1 | Felsenstein 84 | [Bf:0.28 0.25 0.27 0.20, t/t ratio=2.000] |
| 451 | 1 | Felsenstein 84 | [Bf:0.26 0.30 0.26 0.18, t/t ratio=2.000] |
| 452 | 1 | Felsenstein 84 | [Bf:0.28 0.18 0.21 0.33, t/t ratio=2.000] |
| 453 | 1 | Felsenstein 84 | [Bf:0.16 0.28 0.26 0.29, t/t ratio=2.000] |
| 454 | 1 | Felsenstein 84 | [Bf:0.23 0.32 0.26 0.19, t/t ratio=2.000] |
| 455 | 1 | Felsenstein 84 | [Bf:0.15 0.21 0.41 0.22, t/t ratio=2.000] |
| 456 | 1 | Felsenstein 84 | [Bf:0.31 0.24 0.27 0.17, t/t ratio=2.000] |
| 457 | 1 | Felsenstein 84 | [Bf:0.25 0.24 0.25 0.25, t/t ratio=2.000] |
| 458 | 1 | Felsenstein 84 | [Bf:0.12 0.30 0.31 0.26, t/t ratio=2.000] |
| 459 | 1 | Felsenstein 84 | [Bf:0.26 0.16 0.46 0.11, t/t ratio=2.000] |
| 460 | 1 | Felsenstein 84 | [Bf:0.16 0.24 0.30 0.30, t/t ratio=2.000] |
| 461 | 1 | Felsenstein 84 | [Bf:0.25 0.21 0.25 0.28, t/t ratio=2.000] |
| 462 | 1 | Felsenstein 84 | [Bf:0.27 0.10 0.32 0.31, t/t ratio=2.000] |
| 463 | 1 | Felsenstein 84 | [Bf:0.35 0.18 0.21 0.26, t/t ratio=2.000] |
| 464 | 1 | Felsenstein 84 | [Bf:0.28 0.29 0.22 0.21, t/t ratio=2.000] |
| 465 | 1 | Felsenstein 84 | [Bf:0.28 0.21 0.27 0.24, t/t ratio=2.000] |
| 466 | 1 | Felsenstein 84 | [Bf:0.19 0.33 0.23 0.26, t/t ratio=2.000] |
| 467 | 1 | Felsenstein 84 | [Bf:0.21 0.18 0.25 0.36, t/t ratio=2.000] |
| 468 | 1 | Felsenstein 84 | [Bf:0.21 0.21 0.31 0.27, t/t ratio=2.000] |
| 469 | 1 | Felsenstein 84 | [Bf:0.19 0.30 0.28 0.23, t/t ratio=2.000] |
| 470 | 1 | Felsenstein 84 | [Bf:0.29 0.19 0.24 0.28, t/t ratio=2.000] |
| 471 | 1 | Felsenstein 84 | [Bf:0.20 0.22 0.20 0.38, t/t ratio=2.000] |
| 472 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.21 0.29, t/t ratio=2.000] |
| 473 | 1 | Felsenstein 84 | [Bf:0.25 0.22 0.23 0.30, t/t ratio=2.000] |
| 474 | 1 | Felsenstein 84 | [Bf:0.20 0.34 0.26 0.21, t/t ratio=2.000] |
| 475 | 1 | Felsenstein 84 | [Bf:0.13 0.24 0.11 0.52, t/t ratio=2.000] |
| 476 | 1 | Felsenstein 84 | [Bf:0.19 0.27 0.32 0.22, t/t ratio=2.000] |
| 477 | 1 | Felsenstein 84 | [Bf:0.40 0.12 0.37 0.11, t/t ratio=2.000] |
| 478 | 1 | Felsenstein 84 | [Bf:0.25 0.23 0.23 0.29, t/t ratio=2.000] |
| 479 | 1 | Felsenstein 84 | [Bf:0.14 0.30 0.35 0.21, t/t ratio=2.000] |
| 480 | 1 | Felsenstein 84 | [Bf:0.24 0.25 0.26 0.25, t/t ratio=2.000] |
| 481 | 1 | Felsenstein 84 | [Bf:0.29 0.26 0.27 0.18, t/t ratio=2.000] |
| 482 | 1 | Felsenstein 84 | [Bf:0.19 0.36 0.26 0.18, t/t ratio=2.000] |
| 483 | 1 | Felsenstein 84 | [Bf:0.39 0.21 0.23 0.16, t/t ratio=2.000] |
| 484 | 1 | Felsenstein 84 | [Bf:0.13 0.26 0.40 0.21, t/t ratio=2.000] |

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| 485 | 1 | Felsenstein 84 | [Bf:0.16 0.34 0.25 0.25, t/t ratio=2.000] |
| 486 | 1 | Felsenstein 84 | [Bf:0.23 0.26 0.18 0.33, t/t ratio=2.000] |
| 487 | 1 | Felsenstein 84 | [Bf:0.20 0.27 0.32 0.22, t/t ratio=2.000] |
| 488 | 1 | Felsenstein 84 | [Bf:0.23 0.24 0.35 0.18, t/t ratio=2.000] |
| 489 | 1 | Felsenstein 84 | [Bf:0.20 0.25 0.27 0.28, t/t ratio=2.000] |
| 490 | 1 | Felsenstein 84 | [Bf:0.24 0.26 0.29 0.21, t/t ratio=2.000] |
| 491 | 1 | Felsenstein 84 | [Bf:0.18 0.37 0.28 0.17, t/t ratio=2.000] |
| 492 | 1 | Felsenstein 84 | [Bf:0.31 0.21 0.30 0.18, t/t ratio=2.000] |
| 493 | 1 | Felsenstein 84 | [Bf:0.36 0.18 0.27 0.19, t/t ratio=2.000] |
| 494 | 1 | Felsenstein 84 | [Bf:0.20 0.14 0.26 0.39, t/t ratio=2.000] |
| 495 | 1 | Felsenstein 84 | [Bf:0.31 0.26 0.15 0.28, t/t ratio=2.000] |
| 496 | 1 | Felsenstein 84 | [Bf:0.13 0.38 0.26 0.24, t/t ratio=2.000] |
| 497 | 1 | Felsenstein 84 | [Bf:0.26 0.14 0.35 0.26, t/t ratio=2.000] |
| 498 | 1 | Felsenstein 84 | [Bf:0.22 0.26 0.30 0.23, t/t ratio=2.000] |
| 499 | 1 | Felsenstein 84 | [Bf:0.30 0.25 0.24 0.21, t/t ratio=2.000] |
| 500 | 1 | Felsenstein 84 | [Bf:0.20 0.29 0.30 0.21, t/t ratio=2.000] |

Data set was subsampled: used a random sample of size: 5

Sites per locus

| Locus | Sites |
|---|---|
| 1 | 141 |
| 2 | 140 |
| 3 | 140 |
| 4 | 141 |
| 5 | 141 |
| 6 | 140 |
| 7 | 140 |
| 8 | 140 |
| 9 | 140 |
| 10 | 141 |
| 11 | 140 |
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| 37 | 144 |
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| 39 | 140 |
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| 474 | 140 |
| 475 | 142 |
| 476 | 141 |
| 477 | 141 |
| 478 | 141 |
| 479 | 141 |
| 480 | 140 |
| 481 | 140 |
| 482 | 141 |
| 483 | 141 |
| 484 | 140 |
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| 494 | 140 |
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| 496 | 141 |
| 497 | 141 |
| 498 | 141 |
| 499 | 140 |
| 500 | 141 |

Site rate variation and probabilities:

| Locus | Sublocus | Region type | Rate of change | Probability | Patch size |
|---|---|---|---|---|---|
| 1 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 2 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 3 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 4 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 5 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 6 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 7 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 8 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 9 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 10 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 11 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 12 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 13 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 14 | 1 | 1 | 1.000 | 1.000 | 1.000 |

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| 15 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 16 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 17 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 18 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 19 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 20 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 21 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 22 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 23 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 24 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 25 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 26 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 27 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 28 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 29 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 30 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 31 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 32 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 33 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 34 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 35 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 36 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 37 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 38 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 39 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 40 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 41 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 42 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 43 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 44 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 45 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 46 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 47 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 48 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 49 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 50 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 51 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 56 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 57 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 60 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 63 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 64 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 65 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 66 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 67 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 68 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 69 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 70 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 71 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 72 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 73 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 74 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 75 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 76 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 77 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 79 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 80 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 81 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 82 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 83 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 84 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 85 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 86 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 90 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 91 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 93 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 95 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 96 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 97 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 98 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 99 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 100 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 101 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 102 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 103 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 105 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 110 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 111 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 112 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 113 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 114 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 118 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 121 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 126 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 127 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 129 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 131 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 135 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 136 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 137 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 138 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 145 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 150 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 156 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 159 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 161 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 162 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 163 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 172 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 174 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 177 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 178 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 209 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 212 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 213 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 218 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 221 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 222 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 224 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 226 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 228 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 232 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 240 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 245 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 330 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 333 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 336 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 337 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 338 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 341 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 345 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 347 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 352 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 353 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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| 355 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 356 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 357 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 358 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 359 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 360 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 361 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 362 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 363 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 364 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 365 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 366 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 367 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 368 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 369 | 1 | 1 | 1.000 | 1.000 | 1.000 |
| 370 | 1 | 1 | 1.000 | 1.000 | 1.000 |
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# *Subsampled dataset*

Data set was subsampled randomly per population: 5 samples taken

| Locus | Population | Individuals |
|---|---|---|
| 1 | Pop_CFPxCZ | 57Ba 64b 51Bb 56a 59a |
| | Pop_CZ | 9a 1835a 18b 7b 25b |
| 2 | Pop_CFPxCZ | 56b 58Bb 54a 59b 58Ba |
| | Pop_CZ | 5Ba 23b 25a 14Bb 25b |
| 3 | Pop_CFPxCZ | 58Bb 66b 63a 64a 54b |
| | Pop_CZ | 9b 16b 5Bb 3b 21b |
| 4 | Pop_CFPxCZ | 57Bb 58Ba 61b 63b 62a |
| | Pop_CZ | 23a 25b 1836b 14Ba 8Bb |
| 5 | Pop_CFPxCZ | 66a 64a 59a 63a 52Ba |
| | Pop_CZ | 14Bb 17a 18a 21b 22a |
| 6 | Pop_CFPxCZ | 59b 65Ba 52Bb 63a 63b |
| | Pop_CZ | 23b 22a 20a 9b 25a |
| 7 | Pop_CFPxCZ | 58Ba 52Ba 57Ba 52Bb 57Bb |
| | Pop_CZ | 8Bb 9a 16a 1a 88b |
| 8 | Pop_CFPxCZ | 66a 53b 52Ba 55a 65Bb |
| | Pop_CZ | 1a 25a 17b 15b 8Bb |
| 9 | Pop_CFPxCZ | 53b 59b 51Bb 57Bb 65Bb |
| | Pop_CZ | 2a 3b 21a 14Bb 88a |
| 10 | Pop_CFPxCZ | 64a 52Ba 58Bb 66b 51Bb |
| | Pop_CZ | 8Bb 20b 23b 20a 24Bb |
| 11 | Pop_CFPxCZ | 52Bb 66b 66a 54a 57Ba |
| | Pop_CZ | 7a 23b 1836b 25a 5Ba |
| 12 | Pop_CFPxCZ | 65Ba 56b 62a 61b 62b |
| | Pop_CZ | 88a 2b 18a 24Ba 7a |
| 13 | Pop_CFPxCZ | 66a 62b 65Ba 53b 56b |
| | Pop_CZ | 26a 1836b 16a 22a 7a |
| 14 | Pop_CFPxCZ | 57Ba 52Bb 66b 64b 63b |
| | Pop_CZ | 5Bb 1836b 22a 15a 14Ba |
| 15 | Pop_CFPxCZ | 56b 52Ba 54b 59b 55a |
| | Pop_CZ | 16b 9a 1835b 5Bb 2a |
| 16 | Pop_CFPxCZ | 62a 56a 57Bb 66a 65Ba |
| | Pop_CZ | 26a 23b 24Bb 25b 14Bb |
| 17 | Pop_CFPxCZ | 57Bb 61b 63a 63b 64a |
| | Pop_CZ | 4b 16a 19a 23b 16b |
| 18 | Pop_CFPxCZ | 66a 53a 62a 55b 52Bb |
| | Pop_CZ | 22b 19b 1836a 1b 8Ba |
| 19 | Pop_CFPxCZ | 56a 65Ba 53a 59b 66b |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 16b 25b 1836a 15b 25a |
| 20 | Pop_CFPxCZ | 57Bb 58Ba 66a 65Ba 51Bb |
| | Pop_CZ | 5Bb 25b 26a 15a 88a |
| 21 | Pop_CFPxCZ | 61a 59a 53b 65Ba 55b |
| | Pop_CZ | 2a 25a 18b 9b 15a |
| 22 | Pop_CFPxCZ | 62a 64b 59a 66a 61b |
| | Pop_CZ | 8Ba 7a 16b 14Ba 6b |
| 23 | Pop_CFPxCZ | 65Ba 63a 56a 55b 62b |
| | Pop_CZ | 7b 3a 26b 14Bb 23b |
| 24 | Pop_CFPxCZ | 53b 63a 58Ba 66a 57Ba |
| | Pop_CZ | 1836a 1b 9a 8Ba 1835a |
| 25 | Pop_CFPxCZ | 57Ba 52Bb 66b 58Bb 51Ba |
| | Pop_CZ | 4a 1a 8Bb 19b 1836a |
| 26 | Pop_CFPxCZ | 58Ba 59b 63b 51Ba 52Bb |
| | Pop_CZ | 4b 5Ba 24Ba 2b 1a |
| 27 | Pop_CFPxCZ | 64a 52Bb 59a 63b 55a |
| | Pop_CZ | 1835a 26a 24Bb 1835b 7b |
| 28 | Pop_CFPxCZ | 52Bb 58Bb 58Ba 57Bb 54b |
| | Pop_CZ | 19a 1836a 16a 2a 15b |
| 29 | Pop_CFPxCZ | 65Ba 51Bb 54a 63b 52Bb |
| | Pop_CZ | 1835a 25a 19b 14Bb 16b |
| 30 | Pop_CFPxCZ | 65Ba 58Ba 65Bb 55a 53a |
| | Pop_CZ | 20b 4b 23a 25a 88a |
| 31 | Pop_CFPxCZ | 51Ba 59b 58Bb 63b 66b |
| | Pop_CZ | 4b 20b 6a 25b 20a |
| 32 | Pop_CFPxCZ | 58Bb 51Bb 55b 54a 53a |
| | Pop_CZ | 23b 15b 88b 24Ba 24Bb |
| 33 | Pop_CFPxCZ | 54a 58Ba 59a 55b 55a |
| | Pop_CZ | 2a 5Ba 1a 8Ba 15b |
| 34 | Pop_CFPxCZ | 59b 56a 57Ba 62b 63a |
| | Pop_CZ | 8Bb 17a 9a 22a 3b |
| 35 | Pop_CFPxCZ | 57Ba 56b 59a 55b 63b |
| | Pop_CZ | 6a 88a 18b 9a 2b |
| 36 | Pop_CFPxCZ | 64b 62b 66a 57Ba 65Bb |
| | Pop_CZ | 15a 19b 17b 25b 19a |
| 37 | Pop_CFPxCZ | 53a 64a 57Ba 57Bb 51Bb |
| | Pop_CZ | 18a 17b 18b 22b 88a |
| 38 | Pop_CFPxCZ | 58Ba 62b 51Ba 61b 61a |
| | Pop_CZ | 7a 19b 15b 9a 22a |
| 39 | Pop_CFPxCZ | 61a 63b 65Bb 51Ba 59b |
| | Pop_CZ | 19b 6a 26a 26b 2a |
| 40 | Pop_CFPxCZ | 65Ba 66b 53a 54b 61b |
| | Pop_CZ | 21a 15b 88b 9b 7b |

| Locus | Population | Individuals |
|---|---|---|
| 41 | Pop_CFPxCZ | 63b 51Ba 65Ba 63a 54a |
| | Pop_CZ | 24Bb 16a 22a 6b 15b |
| 42 | Pop_CFPxCZ | 66b 63b 61b 53b 62b |
| | Pop_CZ | 23b 3a 1835a 2b 17a |
| 43 | Pop_CFPxCZ | 53a 59a 63b 53b 66a |
| | Pop_CZ | 8Ba 20b 15a 7b 22a |
| 44 | Pop_CFPxCZ | 55a 65Ba 58Bb 56a 54b |
| | Pop_CZ | 23b 23a 26a 7a 5Bb |
| 45 | Pop_CFPxCZ | 64a 51Ba 63b 57Bb 52Bb |
| | Pop_CZ | 20a 4b 23a 1836a 24Ba |
| 46 | Pop_CFPxCZ | 61a 58Bb 65Ba 66b 56a |
| | Pop_CZ | 2a 8Ba 16a 18a 5Ba |
| 47 | Pop_CFPxCZ | 53a 54a 62a 62b 63b |
| | Pop_CZ | 1b 6b 24Ba 9b 5Bb |
| 48 | Pop_CFPxCZ | 61b 61a 51Bb 51Ba 57Bb |
| | Pop_CZ | 3a 19b 7b 6b 2a |
| 49 | Pop_CFPxCZ | 56b 61b 51Bb 66b 64a |
| | Pop_CZ | 20a 1836a 15a 24Bb 14Ba |
| 50 | Pop_CFPxCZ | 58Bb 54a 53b 52Bb 61b |
| | Pop_CZ | 1835a 5Bb 24Bb 88b 8Bb |
| 51 | Pop_CFPxCZ | 57Bb 51Ba 53a 56b 59a |
| | Pop_CZ | 24Bb 20b 26a 19b 18b |
| 52 | Pop_CFPxCZ | 52Ba 65Ba 56a 51Bb 54a |
| | Pop_CZ | 3b 5Bb 8Ba 25b 21b |
| 53 | Pop_CFPxCZ | 63a 57Ba 54a 65Bb 63b |
| | Pop_CZ | 2a 21b 18b 23b 7a |
| 54 | Pop_CFPxCZ | 52Ba 59a 63a 57Ba 65Ba |
| | Pop_CZ | 18a 15a 23a 16a 25a |
| 55 | Pop_CFPxCZ | 51Bb 55b 53a 66b 64a |
| | Pop_CZ | 8Ba 1836b 16a 5Ba 25a |
| 56 | Pop_CFPxCZ | 64b 53a 61b 51Ba 54a |
| | Pop_CZ | 23a 1835b 3b 4b 14Bb |
| 57 | Pop_CFPxCZ | 53a 54b 62b 51Ba 59a |
| | Pop_CZ | 4a 15b 7a 2b 3b |
| 58 | Pop_CFPxCZ | 66b 53b 57Ba 59b 51Ba |
| | Pop_CZ | 15b 4b 1835b 6b 6a |
| 59 | Pop_CFPxCZ | 53a 64a 59a 65Ba 54a |
| | Pop_CZ | 1835a 15a 19a 22b 26b |
| 60 | Pop_CFPxCZ | 56a 62b 55b 54a 59a |
| | Pop_CZ | 15b 1836a 8Bb 1b 2b |
| 61 | Pop_CFPxCZ | 66b 51Bb 57Bb 56a 62b |
| | Pop_CZ | 8Bb 17a 1836a 7b 2a |
| 62 | Pop_CFPxCZ | 53a 53b 57Bb 52Bb 55a |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 19b 1a 5Bb 23b 3b |
| 63 | Pop_CFPxCZ | 51Bb 57Ba 59a 61a 62a |
| | Pop_CZ | 9a 15a 1835b 3b 7a |
| 64 | Pop_CFPxCZ | 57Ba 57Bb 53a 65Bb 66b |
| | Pop_CZ | 7b 23b 16a 18b 8Ba |
| 65 | Pop_CFPxCZ | 58Bb 53b 55a 59b 62a |
| | Pop_CZ | 1b 19a 7a 6a 20a |
| 66 | Pop_CFPxCZ | 66b 63b 51Bb 52Ba 64a |
| | Pop_CZ | 15a 3a 6b 8Ba 22a |
| 67 | Pop_CFPxCZ | 58Ba 52Bb 61a 62b 62a |
| | Pop_CZ | 7a 2a 4a 21a 25a |
| 68 | Pop_CFPxCZ | 58Ba 64b 52Ba 66b 63a |
| | Pop_CZ | 24Bb 6b 22a 20b 4b |
| 69 | Pop_CFPxCZ | 57Ba 65Ba 53a 52Bb 65Bb |
| | Pop_CZ | 19b 1b 15b 23a 5Ba |
| 70 | Pop_CFPxCZ | 55b 63b 53a 65Bb 62b |
| | Pop_CZ | 3b 4b 25b 7b 1835a |
| 71 | Pop_CFPxCZ | 63a 57Ba 65Bb 58Bb 55b |
| | Pop_CZ | 7b 1835b 2a 25b 14Bb |
| 72 | Pop_CFPxCZ | 64a 65Ba 57Ba 63b 59b |
| | Pop_CZ | 5Ba 19b 4a 8Bb 3a |
| 73 | Pop_CFPxCZ | 61a 56a 61b 58Bb 59b |
| | Pop_CZ | 3a 25b 8Ba 16b 26a |
| 74 | Pop_CFPxCZ | 54a 64a 62a 65Bb 66b |
| | Pop_CZ | 19b 14Ba 5Ba 5Bb 1835b |
| 75 | Pop_CFPxCZ | 66a 57Bb 62a 54a 55b |
| | Pop_CZ | 19a 6b 17a 23a 6a |
| 76 | Pop_CFPxCZ | 52Ba 61b 63a 51Ba 62a |
| | Pop_CZ | 14Ba 21a 18a 1835a 9b |
| 77 | Pop_CFPxCZ | 53b 51Bb 65Ba 63b 51Ba |
| | Pop_CZ | 6b 21a 21b 14Bb 1836a |
| 78 | Pop_CFPxCZ | 53a 55b 57Bb 65Ba 51Bb |
| | Pop_CZ | 7b 26a 17b 25b 3a |
| 79 | Pop_CFPxCZ | 56a 58Bb 63a 66a 54a |
| | Pop_CZ | 8Bb 24Bb 16a 7b 22a |
| 80 | Pop_CFPxCZ | 61b 56b 58Bb 63a 55b |
| | Pop_CZ | 23a 5Bb 6a 2b 22b |
| 81 | Pop_CFPxCZ | 58Bb 59b 51Ba 52Bb 55b |
| | Pop_CZ | 21b 8Bb 2a 18b 17b |
| 82 | Pop_CFPxCZ | 66b 51Bb 63a 66a 62b |
| | Pop_CZ | 2b 19b 88a 23a 17a |
| 83 | Pop_CFPxCZ | 65Bb 53a 62b 65Ba 66b |
| | Pop_CZ | 17b 23b 7b 9b 7a |

| Locus | Population | Individuals |
|---|---|---|
| 84 | Pop_CFPxCZ | 56a 63b 55b 61a 54a |
| | Pop_CZ | 17a 8Ba 22a 4b 88a |
| 85 | Pop_CFPxCZ | 63a 56b 52Bb 53b 58Bb |
| | Pop_CZ | 25b 7b 26a 1835b 20a |
| 86 | Pop_CFPxCZ | 57Bb 58Bb 64a 66a 59a |
| | Pop_CZ | 20a 24Bb 20b 1a 19a |
| 87 | Pop_CFPxCZ | 64b 54a 53a 56b 62a |
| | Pop_CZ | 18a 22a 88b 6a 18b |
| 88 | Pop_CFPxCZ | 59b 52Ba 65Bb 63b 62a |
| | Pop_CZ | 16a 22b 18a 1b 4a |
| 89 | Pop_CFPxCZ | 56b 59a 53b 66b 54a |
| | Pop_CZ | 21b 26b 17a 18b 18a |
| 90 | Pop_CFPxCZ | 54a 58Ba 53b 61a 58Bb |
| | Pop_CZ | 1836a 9a 15b 1b 4a |
| 91 | Pop_CFPxCZ | 53b 61a 61b 52Ba 62b |
| | Pop_CZ | 17b 24Bb 21b 22b 14Bb |
| 92 | Pop_CFPxCZ | 65Bb 59a 66b 54a 51Ba |
| | Pop_CZ | 21b 9b 6b 19b 23a |
| 93 | Pop_CFPxCZ | 54a 55a 58Ba 54b 65Ba |
| | Pop_CZ | 1836b 17b 21b 19a 16a |
| 94 | Pop_CFPxCZ | 63a 58Ba 55b 63b 56b |
| | Pop_CZ | 14Bb 1a 26a 1b 17a |
| 95 | Pop_CFPxCZ | 64b 56a 52Ba 55a 54b |
| | Pop_CZ | 21b 17a 5Bb 8Ba 3b |
| 96 | Pop_CFPxCZ | 59a 58Ba 56a 57Bb 61b |
| | Pop_CZ | 23b 2b 1835b 16b 21a |
| 97 | Pop_CFPxCZ | 53a 52Bb 55b 62a 57Ba |
| | Pop_CZ | 25a 22b 24Ba 17a 22a |
| 98 | Pop_CFPxCZ | 53b 63a 62b 63b 62a |
| | Pop_CZ | 8Ba 1835a 1836b 9a 3a |
| 99 | Pop_CFPxCZ | 64a 51Ba 61a 59b 53b |
| | Pop_CZ | 88b 25b 22a 21b 3b |
| 100 | Pop_CFPxCZ | 58Bb 64b 55a 54b 66a |
| | Pop_CZ | 1835b 1a 21a 15a 9a |
| 101 | Pop_CFPxCZ | 64b 61a 65Bb 62a 54a |
| | Pop_CZ | 14Bb 23b 88a 9a 15a |
| 102 | Pop_CFPxCZ | 53b 58Ba 59a 61b 52Bb |
| | Pop_CZ | 8Ba 1835b 24Bb 9b 14Bb |
| 103 | Pop_CFPxCZ | 59b 54a 58Ba 62b 65Ba |
| | Pop_CZ | 88b 17a 19b 6a 15b |
| 104 | Pop_CFPxCZ | 51Bb 65Ba 61b 57Ba 52Bb |
| | Pop_CZ | 26b 16b 17a 24Ba 21b |
| 105 | Pop_CFPxCZ | 51Ba 58Ba 64a 62a 53a |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 21a 19b 7b 18a 25a |
| 106 | Pop_CFPxCZ | 55b 56b 62a 64a 58Bb |
| | Pop_CZ | 5Bb 88b 8Ba 21a 20a |
| 107 | Pop_CFPxCZ | 58Bb 64a 51Ba 59b 56a |
| | Pop_CZ | 23b 19b 20a 25b 9a |
| 108 | Pop_CFPxCZ | 65Ba 53a 52Bb 57Bb 66b |
| | Pop_CZ | 9a 6b 88b 5Bb 17b |
| 109 | Pop_CFPxCZ | 64a 56a 63b 54b 62a |
| | Pop_CZ | 18a 23a 20b 1a 3b |
| 110 | Pop_CFPxCZ | 66b 58Ba 62a 61b 55b |
| | Pop_CZ | 1835b 22b 21a 26a 1835a |
| 111 | Pop_CFPxCZ | 64b 56a 65Ba 62a 64a |
| | Pop_CZ | 1835b 7a 8Bb 26b 2a |
| 112 | Pop_CFPxCZ | 51Bb 59a 54a 56b 66a |
| | Pop_CZ | 1836a 1a 5Bb 19b 18a |
| 113 | Pop_CFPxCZ | 63a 56b 64a 54b 58Bb |
| | Pop_CZ | 23b 17a 5Bb 26a 9b |
| 114 | Pop_CFPxCZ | 58Bb 58Ba 64a 52Bb 62b |
| | Pop_CZ | 3a 25a 20a 24Ba 15b |
| 115 | Pop_CFPxCZ | 57Bb 65Bb 55b 54b 62a |
| | Pop_CZ | 5Ba 18b 25b 7a 26a |
| 116 | Pop_CFPxCZ | 51Ba 63a 62a 57Bb 63b |
| | Pop_CZ | 3a 16b 26a 14Bb 22b |
| 117 | Pop_CFPxCZ | 58Ba 56a 52Ba 53a 61a |
| | Pop_CZ | 4a 19a 5Bb 20a 15a |
| 118 | Pop_CFPxCZ | 52Bb 59b 59a 66b 63b |
| | Pop_CZ | 20a 26b 16b 25b 1b |
| 119 | Pop_CFPxCZ | 51Ba 52Ba 62a 51Bb 66a |
| | Pop_CZ | 5Bb 9b 4a 24Bb 1835b |
| 120 | Pop_CFPxCZ | 58Ba 51Ba 55b 64a 63a |
| | Pop_CZ | 7a 18b 17b 2a 6a |
| 121 | Pop_CFPxCZ | 52Bb 55a 52Ba 59b 56a |
| | Pop_CZ | 4a 6a 7a 17b 16b |
| 122 | Pop_CFPxCZ | 59a 53a 62b 56a 52Ba |
| | Pop_CZ | 26a 5Ba 88a 9a 21b |
| 123 | Pop_CFPxCZ | 63a 55b 62b 52Ba 65Ba |
| | Pop_CZ | 1835b 23b 22b 2b 25a |
| 124 | Pop_CFPxCZ | 54a 51Bb 65Ba 56b 61b |
| | Pop_CZ | 6a 6b 14Bb 26b 22b |
| 125 | Pop_CFPxCZ | 65Bb 65Ba 57Ba 55b 54b |
| | Pop_CZ | 24Ba 7a 1836a 6a 22a |
| 126 | Pop_CFPxCZ | 63b 58Bb 62b 64a 55a |
| | Pop_CZ | 14Bb 17a 15a 6a 88a |

| Locus | Population | Individuals |
|---|---|---|
| 127 | Pop_CFPxCZ | 56a 66b 58Ba 64a 54a |
| | Pop_CZ | 14Ba 4b 19b 26b 1a |
| 128 | Pop_CFPxCZ | 59b 63b 61a 51Ba 56a |
| | Pop_CZ | 22b 19b 26a 9b 19a |
| 129 | Pop_CFPxCZ | 59b 61a 61b 54a 62a |
| | Pop_CZ | 16b 7a 18a 23a 17b |
| 130 | Pop_CFPxCZ | 61b 53b 57Ba 64b 51Bb |
| | Pop_CZ | 8Ba 21a 1836b 6a 4a |
| 131 | Pop_CFPxCZ | 66b 53b 51Ba 51Bb 54a |
| | Pop_CZ | 26a 1a 1836a 4b 19b |
| 132 | Pop_CFPxCZ | 59b 56a 54a 52Bb 61b |
| | Pop_CZ | 1a 7a 22a 88b 19b |
| 133 | Pop_CFPxCZ | 59b 55b 54a 62b 62a |
| | Pop_CZ | 8Bb 24Bb 1a 26a 9a |
| 134 | Pop_CFPxCZ | 57Bb 53a 62a 63b 61b |
| | Pop_CZ | 3a 5Ba 17b 23a 14Bb |
| 135 | Pop_CFPxCZ | 65Ba 59a 66b 51Bb 55b |
| | Pop_CZ | 19b 9b 19a 5Bb 25a |
| 136 | Pop_CFPxCZ | 58Bb 52Bb 54a 57Ba 54b |
| | Pop_CZ | 3a 6b 18b 14Ba 1835b |
| 137 | Pop_CFPxCZ | 61a 63a 55a 53a 56a |
| | Pop_CZ | 88a 7b 17b 22a 21b |
| 138 | Pop_CFPxCZ | 61a 52Bb 55a 64b 64a |
| | Pop_CZ | 8Ba 24Ba 14Bb 25b 26a |
| 139 | Pop_CFPxCZ | 65Ba 54b 57Bb 51Ba 56a |
| | Pop_CZ | 6b 15b 1836b 14Bb 16b |
| 140 | Pop_CFPxCZ | 64a 53b 54b 57Ba 55b |
| | Pop_CZ | 7b 23b 18b 19a 17b |
| 141 | Pop_CFPxCZ | 57Ba 64b 51Ba 53a 65Ba |
| | Pop_CZ | 6b 26b 7b 1835b 23b |
| 142 | Pop_CFPxCZ | 52Bb 63b 66a 53a 54b |
| | Pop_CZ | 21a 5Ba 19b 22b 25a |
| 143 | Pop_CFPxCZ | 64a 55b 64b 57Ba 53b |
| | Pop_CZ | 19a 8Bb 1835a 6b 22b |
| 144 | Pop_CFPxCZ | 64b 55b 52Bb 51Ba 58Bb |
| | Pop_CZ | 24Ba 9b 18b 15a 88b |
| 145 | Pop_CFPxCZ | 54a 55b 65Ba 53b 52Bb |
| | Pop_CZ | 4a 14Bb 17b 15a 24Ba |
| 146 | Pop_CFPxCZ | 58Ba 53a 56b 63b 64a |
| | Pop_CZ | 26a 2b 6a 16b 4a |
| 147 | Pop_CFPxCZ | 58Bb 54b 64b 57Ba 57Bb |
| | Pop_CZ | 17b 15a 16a 20b 23b |
| 148 | Pop_CFPxCZ | 54a 61a 64a 65Bb 53a |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 20b 23a 8Ba 4b 7a |
| 149 | Pop_CFPxCZ | 65Bb 64b 61b 62a 58Ba |
| | Pop_CZ | 9a 16b 23b 7b 23a |
| 150 | Pop_CFPxCZ | 66b 51Ba 53a 52Bb 51Bb |
| | Pop_CZ | 1836b 24Ba 9b 23a 25a |
| 151 | Pop_CFPxCZ | 53a 65Ba 66a 51Ba 64a |
| | Pop_CZ | 17b 1835b 15b 22a 8Ba |
| 152 | Pop_CFPxCZ | 64a 56a 62b 57Bb 56b |
| | Pop_CZ | 4a 16a 2b 22b 22a |
| 153 | Pop_CFPxCZ | 56b 51Ba 57Bb 52Bb 62b |
| | Pop_CZ | 6b 23b 88a 7a 26b |
| 154 | Pop_CFPxCZ | 54b 58Bb 52Ba 65Ba 53a |
| | Pop_CZ | 9a 16a 21b 25a 88a |
| 155 | Pop_CFPxCZ | 54a 64a 66b 55b 59b |
| | Pop_CZ | 6a 2a 1b 5Ba 7a |
| 156 | Pop_CFPxCZ | 58Bb 62b 61b 57Bb 55b |
| | Pop_CZ | 1b 1a 22b 88a 8Ba |
| 157 | Pop_CFPxCZ | 62a 55a 57Ba 61b 53b |
| | Pop_CZ | 19b 6b 23b 1836b 5Bb |
| 158 | Pop_CFPxCZ | 61a 65Ba 63b 58Bb 57Bb |
| | Pop_CZ | 1b 9b 1835b 14Bb 25b |
| 159 | Pop_CFPxCZ | 56b 57Bb 51Bb 65Bb 51Ba |
| | Pop_CZ | 6b 14Bb 24Bb 8Ba 20a |
| 160 | Pop_CFPxCZ | 59a 66b 57Ba 55b 57Bb |
| | Pop_CZ | 16b 18b 24Bb 16a 9a |
| 161 | Pop_CFPxCZ | 55b 53b 54b 52Ba 57Bb |
| | Pop_CZ | 26a 4b 7a 18a 5Bb |
| 162 | Pop_CFPxCZ | 52Ba 64a 51Ba 59b 63a |
| | Pop_CZ | 8Ba 24Ba 14Bb 6a 2b |
| 163 | Pop_CFPxCZ | 56b 53b 52Ba 56a 55b |
| | Pop_CZ | 9a 25a 16a 14Ba 4b |
| 164 | Pop_CFPxCZ | 58Bb 61b 52Ba 57Bb 54b |
| | Pop_CZ | 17b 1835a 3b 1835b 25a |
| 165 | Pop_CFPxCZ | 55a 57Ba 64b 51Bb 55b |
| | Pop_CZ | 7b 21b 18b 1b 16b |
| 166 | Pop_CFPxCZ | 57Ba 53b 58Ba 59b 63a |
| | Pop_CZ | 1836b 4b 17a 3a 7b |
| 167 | Pop_CFPxCZ | 55a 56b 53a 54a 52Ba |
| | Pop_CZ | 22a 7a 6a 17a 3b |
| 168 | Pop_CFPxCZ | 63b 57Ba 54a 53a 52Ba |
| | Pop_CZ | 26b 24Bb 1835a 4b 16b |
| 169 | Pop_CFPxCZ | 61a 65Bb 57Ba 55a 54a |
| | Pop_CZ | 23b 3b 15b 1835b 7a |

| Locus | Population | Individuals |
|---|---|---|
| 170 | Pop_CFPxCZ | 56b 64b 52Ba 51Bb 55b |
| | Pop_CZ | 17b 14Ba 18b 1835b 8Bb |
| 171 | Pop_CFPxCZ | 51Ba 52Bb 62b 61b 56b |
| | Pop_CZ | 3b 25b 17a 16a 2b |
| 172 | Pop_CFPxCZ | 63b 52Bb 61b 65Ba 62a |
| | Pop_CZ | 3a 23a 1836a 26a 24Bb |
| 173 | Pop_CFPxCZ | 62a 52Ba 55b 57Ba 66b |
| | Pop_CZ | 23b 20a 1a 16b 6a |
| 174 | Pop_CFPxCZ | 66a 57Ba 58Ba 55a 54b |
| | Pop_CZ | 7b 24Ba 19b 22b 1835a |
| 175 | Pop_CFPxCZ | 57Bb 63a 51Ba 55b 64a |
| | Pop_CZ | 22b 20b 20a 25a 2b |
| 176 | Pop_CFPxCZ | 57Ba 52Ba 63a 53a 66a |
| | Pop_CZ | 4b 88b 25a 3b 7b |
| 177 | Pop_CFPxCZ | 65Bb 63a 58Ba 66b 55b |
| | Pop_CZ | 3b 20a 1835a 23b 15a |
| 178 | Pop_CFPxCZ | 55b 51Bb 53a 58Bb 64a |
| | Pop_CZ | 1b 14Ba 3a 88a 1835b |
| 179 | Pop_CFPxCZ | 59b 56a 58Ba 52Bb 54b |
| | Pop_CZ | 20b 24Bb 7b 15a 15b |
| 180 | Pop_CFPxCZ | 61b 56b 64a 55a 58Ba |
| | Pop_CZ | 1835b 16a 9b 9a 88b |
| 181 | Pop_CFPxCZ | 58Ba 51Bb 66b 56b 55b |
| | Pop_CZ | 14Ba 25a 15a 24Bb 5Ba |
| 182 | Pop_CFPxCZ | 65Bb 58Bb 62b 58Ba 51Ba |
| | Pop_CZ | 26a 7b 3a 8Ba 4b |
| 183 | Pop_CFPxCZ | 66a 59a 66b 57Bb 53b |
| | Pop_CZ | 8Bb 9a 5Bb 21a 25b |
| 184 | Pop_CFPxCZ | 66a 58Bb 51Bb 56b 61a |
| | Pop_CZ | 14Bb 26a 1b 20b 15b |
| 185 | Pop_CFPxCZ | 57Bb 57Ba 51Bb 58Ba 63b |
| | Pop_CZ | 24Bb 2a 14Ba 15b 1836a |
| 186 | Pop_CFPxCZ | 54a 65Bb 65Ba 63a 59a |
| | Pop_CZ | 21a 3a 23a 5Bb 23b |
| 187 | Pop_CFPxCZ | 65Bb 61a 64b 66a 59a |
| | Pop_CZ | 22a 19a 4a 15b 25a |
| 188 | Pop_CFPxCZ | 64a 59a 63a 61b 58Bb |
| | Pop_CZ | 14Ba 26b 21a 23a 4a |
| 189 | Pop_CFPxCZ | 52Ba 58Ba 64a 65Ba 66a |
| | Pop_CZ | 6b 21a 16b 1a 25b |
| 190 | Pop_CFPxCZ | 58Ba 66a 64a 63a 61a |
| | Pop_CZ | 26a 88b 16b 3a 5Bb |
| 191 | Pop_CFPxCZ | 54a 64a 54b 58Bb 51Ba |

| Locus | Population | Individuals |
|---|---|---|
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| 192 | Pop_CFPxCZ | 61b 56a 54a 58Bb 65Bb |
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| 193 | Pop_CFPxCZ | 56b 58Ba 52Ba 65Ba 54a |
| | Pop_CZ | 25a 88b 23b 24Ba 21a |
| 194 | Pop_CFPxCZ | 58Ba 59a 65Ba 64a 62b |
| | Pop_CZ | 14Ba 1835a 25a 2a 25b |
| 195 | Pop_CFPxCZ | 57Ba 63a 59a 63b 55b |
| | Pop_CZ | 4b 18b 1835a 1835b 14Ba |
| 196 | Pop_CFPxCZ | 56b 51Ba 56a 54b 61b |
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| 197 | Pop_CFPxCZ | 66b 56a 53b 55a 62b |
| | Pop_CZ | 3b 20a 6b 19b 16b |
| 198 | Pop_CFPxCZ | 59b 61a 51Ba 52Bb 58Ba |
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| 199 | Pop_CFPxCZ | 55b 56b 65Ba 54a 62a |
| | Pop_CZ | 22b 1835a 18b 23a 1836b |
| 200 | Pop_CFPxCZ | 65Bb 56b 59a 63b 56a |
| | Pop_CZ | 7a 15b 3a 18b 7b |
| 201 | Pop_CFPxCZ | 57Bb 58Bb 54b 63a 66a |
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| | Pop_CZ | 1836a 1b 15b 18a 5Bb |
| 204 | Pop_CFPxCZ | 66a 59a 52Bb 58Bb 51Ba |
| | Pop_CZ | 26b 1836a 19b 16a 24Bb |
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| 206 | Pop_CFPxCZ | 59b 62b 58Bb 65Ba 62a |
| | Pop_CZ | 23a 6a 1835b 23b 26a |
| 207 | Pop_CFPxCZ | 58Bb 66a 57Bb 62b 58Ba |
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| 209 | Pop_CFPxCZ | 56b 59b 59a 65Bb 64a |
| | Pop_CZ | 26b 9a 19b 5Ba 88b |
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| | Pop_CZ | 18a 21b 8Ba 19b 4b |

| Locus | Population | Individuals |
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| | Pop_CZ | 21b 1836b 25b 1835b 17a |
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| 220 | Pop_CFPxCZ | 63a 52Bb 61a 54b 56a |
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| Locus | Population | Individuals |
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| | Pop_CZ | 15b 5Ba 6a 2b 19a |

| Locus | Population | Individuals |
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| 277 | Pop_CFPxCZ | 66a 59b 66b 56a 53b |

| Locus | Population | Individuals |
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| Locus | Population | Individuals |
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| Locus | Population | Individuals |
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| | Pop_CZ | 22a 6a 25a 14Bb 4a |

| Locus | Population | Individuals |
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| Locus | Population | Individuals |
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| | Pop_CZ | 1835b 16a 15b 14Bb 26a |
| 371 | Pop_CFPxCZ | 65Ba 64b 56a 57Ba 57Bb |
| | Pop_CZ | 20a 5Bb 88b 7a 16a |
| 372 | Pop_CFPxCZ | 56a 51Bb 54a 61b 63b |
| | Pop_CZ | 4b 9b 19a 88a 26b |
| 373 | Pop_CFPxCZ | 53b 66a 66b 59b 52Bb |
| | Pop_CZ | 20b 7b 24Ba 88a 23b |
| 374 | Pop_CFPxCZ | 61a 66b 57Bb 62b 56b |
| | Pop_CZ | 1b 16a 23a 2a 25a |
| 375 | Pop_CFPxCZ | 52Ba 66b 63a 61b 53a |
| | Pop_CZ | 21a 4b 22b 6a 23b |
| 376 | Pop_CFPxCZ | 65Bb 59a 65Ba 59b 63a |
| | Pop_CZ | 25b 25a 23b 9b 26b |
| 377 | Pop_CFPxCZ | 55a 55b 61b 66b 51Bb |
| | Pop_CZ | 26b 16b 18a 1835a 21a |
| 378 | Pop_CFPxCZ | 64a 66b 58Bb 62a 57Bb |
| | Pop_CZ | 88a 15a 15b 21b 26a |
| 379 | Pop_CFPxCZ | 51Bb 54b 61a 53a 55b |
| | Pop_CZ | 1835a 19b 18a 22a 19a |
| 380 | Pop_CFPxCZ | 59a 61b 63a 65Bb 66a |
| | Pop_CZ | 2b 18b 25a 7a 1836b |
| 381 | Pop_CFPxCZ | 59a 58Bb 53b 65Bb 58Ba |
| | Pop_CZ | 25b 1b 9b 3a 19a |
| 382 | Pop_CFPxCZ | 62a 52Bb 62b 59b 57Ba |
| | Pop_CZ | 26b 6a 22b 5Ba 15b |
| 383 | Pop_CFPxCZ | 51Ba 65Bb 54a 53b 58Ba |
| | Pop_CZ | 4a 8Bb 5Ba 2a 20a |
| 384 | Pop_CFPxCZ | 64b 58Bb 66a 57Bb 59b |
| | Pop_CZ | 15a 23a 3b 4b 16a |

| Locus | Population | Individuals |
|---|---|---|
| 385 | Pop_CFPxCZ | 52Ba 57Ba 56b 59b 57Bb |
| | Pop_CZ | 22b 4b 15a 88b 4a |
| 386 | Pop_CFPxCZ | 58Bb 61b 61a 51Bb 52Bb |
| | Pop_CZ | 25b 23a 17a 1836b 4b |
| 387 | Pop_CFPxCZ | 56b 64b 63b 65Ba 66b |
| | Pop_CZ | 19a 1835b 1835a 1b 4b |
| 388 | Pop_CFPxCZ | 65Ba 56b 54b 57Ba 58Bb |
| | Pop_CZ | 15a 16a 22b 18a 24Bb |
| 389 | Pop_CFPxCZ | 63b 55a 54b 66a 61b |
| | Pop_CZ | 9a 5Ba 6b 14Bb 19b |
| 390 | Pop_CFPxCZ | 65Ba 54b 52Ba 51Ba 66b |
| | Pop_CZ | 1835a 4a 6b 9a 18a |
| 391 | Pop_CFPxCZ | 64a 57Ba 63a 56a 58Bb |
| | Pop_CZ | 1835b 88b 1835a 18a 7a |
| 392 | Pop_CFPxCZ | 63b 65Ba 62a 54a 65Bb |
| | Pop_CZ | 5Ba 15b 15a 1835b 1836b |
| 393 | Pop_CFPxCZ | 64a 55b 61b 53a 51Bb |
| | Pop_CZ | 6a 7a 2b 21a 25a |
| 394 | Pop_CFPxCZ | 55a 63a 56a 58Bb 62b |
| | Pop_CZ | 21b 8Bb 8Ba 19a 1836a |
| 395 | Pop_CFPxCZ | 66a 52Bb 54a 55a 54b |
| | Pop_CZ | 4b 5Bb 25b 26a 1a |
| 396 | Pop_CFPxCZ | 52Ba 54a 51Bb 57Bb 62b |
| | Pop_CZ | 22a 88a 21b 5Ba 17b |
| 397 | Pop_CFPxCZ | 52Ba 61b 53a 64b 58Ba |
| | Pop_CZ | 26a 1b 1a 9b 22a |
| 398 | Pop_CFPxCZ | 59b 58Ba 54b 55b 61a |
| | Pop_CZ | 19a 25a 1836b 20b 14Bb |
| 399 | Pop_CFPxCZ | 58Ba 63a 55a 59b 56a |
| | Pop_CZ | 8Ba 1836a 1b 20a 26b |
| 400 | Pop_CFPxCZ | 51Bb 66b 63a 51Ba 56a |
| | Pop_CZ | 1836a 7b 15b 1a 88a |
| 401 | Pop_CFPxCZ | 56b 61a 51Ba 56a 51Bb |
| | Pop_CZ | 5Ba 20b 1835a 5Bb 24Ba |
| 402 | Pop_CFPxCZ | 59a 62b 64b 66b 64a |
| | Pop_CZ | 24Bb 5Bb 1835b 20b 16b |
| 403 | Pop_CFPxCZ | 59b 62b 53a 51Bb 65Bb |
| | Pop_CZ | 19b 25b 2a 6b 24Ba |
| 404 | Pop_CFPxCZ | 59b 65Ba 57Bb 58Bb 54b |
| | Pop_CZ | 19b 88a 14Ba 18a 21b |
| 405 | Pop_CFPxCZ | 54b 58Bb 64b 53a 52Bb |
| | Pop_CZ | 88b 1835b 21b 9a 26b |
| 406 | Pop_CFPxCZ | 51Bb 57Bb 65Bb 57Ba 53a |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 3a 6b 14Bb 22a 3b |
| 407 | Pop_CFPxCZ | 65Bb 51Bb 56a 58Ba 64a |
| | Pop_CZ | 22a 17b 2a 5Ba 14Bb |
| 408 | Pop_CFPxCZ | 63a 56b 57Ba 56a 53b |
| | Pop_CZ | 4a 16a 19a 15a 14Ba |
| 409 | Pop_CFPxCZ | 57Bb 62b 66a 63a 53a |
| | Pop_CZ | 1835a 7b 25a 14Bb 14Ba |
| 410 | Pop_CFPxCZ | 54b 59b 58Bb 53b 63a |
| | Pop_CZ | 19b 14Bb 18b 21a 2a |
| 411 | Pop_CFPxCZ | 65Bb 51Ba 64a 52Bb 55a |
| | Pop_CZ | 24Bb 19b 15a 9b 3a |
| 412 | Pop_CFPxCZ | 61a 54a 52Bb 51Ba 53b |
| | Pop_CZ | 4a 23a 88a 19b 1836a |
| 413 | Pop_CFPxCZ | 55a 51Bb 53b 53a 52Bb |
| | Pop_CZ | 1835b 14Bb 25b 88a 1b |
| 414 | Pop_CFPxCZ | 58Bb 61b 52Ba 56b 53b |
| | Pop_CZ | 6a 1835b 88a 1836a 14Bb |
| 415 | Pop_CFPxCZ | 65Ba 54a 63b 51Ba 57Bb |
| | Pop_CZ | 7a 8Ba 16b 20b 20a |
| 416 | Pop_CFPxCZ | 64a 54b 63a 66b 55a |
| | Pop_CZ | 15b 8Ba 16a 22b 2a |
| 417 | Pop_CFPxCZ | 57Bb 52Ba 62b 59b 51Ba |
| | Pop_CZ | 6a 22a 1836b 7a 6b |
| 418 | Pop_CFPxCZ | 56b 51Bb 57Ba 66b 59b |
| | Pop_CZ | 1a 88b 9a 19a 23a |
| 419 | Pop_CFPxCZ | 64b 65Ba 63a 62b 65Bb |
| | Pop_CZ | 20b 16b 19a 2a 23a |
| 420 | Pop_CFPxCZ | 59a 51Bb 53a 58Bb 65Ba |
| | Pop_CZ | 17a 9b 6b 18b 19a |
| 421 | Pop_CFPxCZ | 61a 55b 56a 62b 54a |
| | Pop_CZ | 17a 88b 3b 8Ba 2a |
| 422 | Pop_CFPxCZ | 66a 66b 52Ba 62a 53a |
| | Pop_CZ | 15b 7b 9a 16a 21b |
| 423 | Pop_CFPxCZ | 59a 63a 53b 52Ba 55a |
| | Pop_CZ | 17b 21a 19b 18b 5Bb |
| 424 | Pop_CFPxCZ | 55a 66b 61b 52Ba 51Ba |
| | Pop_CZ | 19a 1835a 25b 1836b 4b |
| 425 | Pop_CFPxCZ | 56a 52Ba 57Bb 65Bb 53a |
| | Pop_CZ | 18a 5Ba 9b 23a 8Ba |
| 426 | Pop_CFPxCZ | 61b 59b 51Ba 55a 56b |
| | Pop_CZ | 8Bb 15b 14Ba 88b 1836b |
| 427 | Pop_CFPxCZ | 62a 53a 56b 56a 59a |
| | Pop_CZ | 20b 6b 2b 5Ba 1835b |

| Locus | Population | Individuals |
|---|---|---|
| 428 | Pop_CFPxCZ | 55b 59a 52Ba 65Ba 64a |
| | Pop_CZ | 7a 19b 1835a 8Bb 24Bb |
| 429 | Pop_CFPxCZ | 63b 64a 65Bb 59b 51Ba |
| | Pop_CZ | 3a 16a 22a 20a 88a |
| 430 | Pop_CFPxCZ | 54b 57Bb 66a 58Bb 63a |
| | Pop_CZ | 21a 18b 20b 1835a 1835b |
| 431 | Pop_CFPxCZ | 52Ba 53b 62a 63b 66a |
| | Pop_CZ | 17a 6b 20a 5Ba 3b |
| 432 | Pop_CFPxCZ | 56b 54a 61b 53b 57Bb |
| | Pop_CZ | 25a 8Bb 16b 14Ba 19b |
| 433 | Pop_CFPxCZ | 64b 58Ba 51Ba 66b 63a |
| | Pop_CZ | 1836b 19b 14Bb 22a 7b |
| 434 | Pop_CFPxCZ | 64a 55a 53b 63a 52Ba |
| | Pop_CZ | 7a 22a 25a 1b 21a |
| 435 | Pop_CFPxCZ | 51Ba 54a 57Ba 59b 52Bb |
| | Pop_CZ | 9a 23a 15b 5Bb 9b |
| 436 | Pop_CFPxCZ | 52Bb 54a 56b 63a 66b |
| | Pop_CZ | 1835a 88a 8Ba 20b 25b |
| 437 | Pop_CFPxCZ | 64b 55b 53b 61b 65Bb |
| | Pop_CZ | 6b 9b 20a 2a 16a |
| 438 | Pop_CFPxCZ | 55b 53b 57Ba 61b 58Bb |
| | Pop_CZ | 26a 1a 14Ba 22b 6a |
| 439 | Pop_CFPxCZ | 64b 65Bb 58Bb 54b 59a |
| | Pop_CZ | 9b 25b 21b 20a 23a |
| 440 | Pop_CFPxCZ | 59b 54a 51Bb 66a 57Bb |
| | Pop_CZ | 3b 2a 88b 16a 25a |
| 441 | Pop_CFPxCZ | 63a 53b 52Ba 61a 51Bb |
| | Pop_CZ | 16b 6a 5Bb 26b 4a |
| 442 | Pop_CFPxCZ | 66a 51Bb 58Bb 59b 61a |
| | Pop_CZ | 19a 7b 24Bb 1835a 18a |
| 443 | Pop_CFPxCZ | 63a 52Ba 55b 53b 61b |
| | Pop_CZ | 1836b 21b 20a 18b 7b |
| 444 | Pop_CFPxCZ | 58Bb 66a 51Ba 56b 51Bb |
| | Pop_CZ | 22b 26b 1b 15a 6a |
| 445 | Pop_CFPxCZ | 57Bb 59a 51Bb 57Ba 52Bb |
| | Pop_CZ | 19b 9a 1836a 14Ba 4a |
| 446 | Pop_CFPxCZ | 58Ba 52Bb 61b 53a 56a |
| | Pop_CZ | 2b 15a 5Bb 19a 7a |
| 447 | Pop_CFPxCZ | 64a 57Bb 54b 66a 55b |
| | Pop_CZ | 26a 17a 26b 23b 20a |
| 448 | Pop_CFPxCZ | 59a 65Ba 63a 65Bb 66b |
| | Pop_CZ | 26a 1835a 1b 20b 2b |
| 449 | Pop_CFPxCZ | 55a 53b 66a 53a 66b |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 6a 2b 22b 8Ba 3a |
| 450 | Pop_CFPxCZ | 58Ba 52Ba 66b 51Bb 53b |
| | Pop_CZ | 88b 6b 21a 9a 17a |
| 451 | Pop_CFPxCZ | 51Ba 65Ba 51Bb 53b 62a |
| | Pop_CZ | 7b 9a 23a 19b 23b |
| 452 | Pop_CFPxCZ | 55b 54a 61a 63a 66b |
| | Pop_CZ | 22b 14Ba 17b 22a 19b |
| 453 | Pop_CFPxCZ | 53a 65Bb 63b 63a 52Bb |
| | Pop_CZ | 6b 18b 17a 26a 23b |
| 454 | Pop_CFPxCZ | 55a 57Bb 51Bb 53a 54a |
| | Pop_CZ | 3b 17b 22a 14Ba 24Ba |
| 455 | Pop_CFPxCZ | 62a 51Bb 51Ba 58Bb 63b |
| | Pop_CZ | 4b 6a 7b 88a 22a |
| 456 | Pop_CFPxCZ | 59a 58Bb 52Bb 57Ba 54b |
| | Pop_CZ | 88a 1835b 17a 20b 88b |
| 457 | Pop_CFPxCZ | 52Bb 54b 66a 53b 52Ba |
| | Pop_CZ | 21b 2b 3b 19a 20a |
| 458 | Pop_CFPxCZ | 58Ba 51Bb 55b 65Ba 64a |
| | Pop_CZ | 18a 23a 20a 21a 24Ba |
| 459 | Pop_CFPxCZ | 63a 61b 65Bb 57Bb 54b |
| | Pop_CZ | 8Ba 20a 2b 19a 16b |
| 460 | Pop_CFPxCZ | 63a 61b 56b 55b 51Bb |
| | Pop_CZ | 17b 6a 5Ba 22a 8Bb |
| 461 | Pop_CFPxCZ | 58Ba 53b 62b 54b 63a |
| | Pop_CZ | 8Bb 8Ba 23a 88b 24Bb |
| 462 | Pop_CFPxCZ | 63b 64a 57Ba 59b 52Ba |
| | Pop_CZ | 18a 19b 7b 4b 26a |
| 463 | Pop_CFPxCZ | 53a 65Bb 57Ba 62a 63b |
| | Pop_CZ | 1836b 25b 23a 22b 6a |
| 464 | Pop_CFPxCZ | 51Ba 59a 62b 55a 54a |
| | Pop_CZ | 18a 26a 17a 6a 21a |
| 465 | Pop_CFPxCZ | 63b 55b 58Bb 62b 65Ba |
| | Pop_CZ | 24Ba 8Ba 2a 2b 22b |
| 466 | Pop_CFPxCZ | 52Ba 59b 61b 63b 56a |
| | Pop_CZ | 25a 1836a 23a 1836b 22a |
| 467 | Pop_CFPxCZ | 56a 59b 58Ba 62a 66a |
| | Pop_CZ | 23b 5Ba 19a 25a 6b |
| 468 | Pop_CFPxCZ | 59b 52Ba 55b 54a 57Ba |
| | Pop_CZ | 16b 17a 7a 3a 19a |
| 469 | Pop_CFPxCZ | 59b 63a 55a 57Bb 66b |
| | Pop_CZ | 17a 24Ba 22a 1836a 25a |
| 470 | Pop_CFPxCZ | 62a 51Ba 55b 56b 64a |
| | Pop_CZ | 3a 17a 1835b 26a 14Bb |

| Locus | Population | Individuals |
|---|---|---|
| 471 | Pop_CFPxCZ | 61b 54b 58Ba 52Ba 59b |
| | Pop_CZ | 4b 6a 16b 88a 14Bb |
| 472 | Pop_CFPxCZ | 61a 55b 61b 59b 59a |
| | Pop_CZ | 20a 14Bb 22b 5Bb 9b |
| 473 | Pop_CFPxCZ | 57Ba 63b 65Ba 62a 52Bb |
| | Pop_CZ | 21b 8Ba 15a 16a 1b |
| 474 | Pop_CFPxCZ | 53b 66b 58Bb 58Ba 62a |
| | Pop_CZ | 24Ba 17a 1a 25a 18a |
| 475 | Pop_CFPxCZ | 57Bb 62b 55b 62a 52Ba |
| | Pop_CZ | 17b 20b 14Bb 88a 22b |
| 476 | Pop_CFPxCZ | 59b 59a 61b 51Ba 51Bb |
| | Pop_CZ | 19b 1a 19a 9a 26b |
| 477 | Pop_CFPxCZ | 59b 56a 55a 64b 57Ba |
| | Pop_CZ | 14Bb 19b 1835b 18b 18a |
| 478 | Pop_CFPxCZ | 63b 55b 65Ba 64b 66b |
| | Pop_CZ | 6b 14Ba 1835b 14Bb 23a |
| 479 | Pop_CFPxCZ | 52Bb 65Ba 51Ba 62b 56b |
| | Pop_CZ | 2b 1836a 26b 23b 19b |
| 480 | Pop_CFPxCZ | 51Bb 64b 62b 64a 63b |
| | Pop_CZ | 26b 5Ba 5Bb 6a 18a |
| 481 | Pop_CFPxCZ | 53a 61b 66a 62b 51Ba |
| | Pop_CZ | 20a 4a 16a 20b 9b |
| 482 | Pop_CFPxCZ | 56b 54a 51Bb 51Ba 65Bb |
| | Pop_CZ | 20b 26a 20a 2b 26b |
| 483 | Pop_CFPxCZ | 63a 59b 61a 53a 66b |
| | Pop_CZ | 1835a 21b 14Ba 26b 16a |
| 484 | Pop_CFPxCZ | 54b 52Bb 65Bb 56a 65Ba |
| | Pop_CZ | 18a 88b 26b 6a 14Bb |
| 485 | Pop_CFPxCZ | 61b 55a 56a 59b 58Ba |
| | Pop_CZ | 2b 6b 1b 16b 7a |
| 486 | Pop_CFPxCZ | 55b 66a 56a 59b 55a |
| | Pop_CZ | 1b 6b 26a 25a 15b |
| 487 | Pop_CFPxCZ | 59b 52Ba 51Bb 56b 54a |
| | Pop_CZ | 9b 4b 16a 25a 7b |
| 488 | Pop_CFPxCZ | 61a 55a 56b 66b 57Bb |
| | Pop_CZ | 20b 20a 18b 26a 15a |
| 489 | Pop_CFPxCZ | 52Ba 58Bb 53a 56b 52Bb |
| | Pop_CZ | 26b 16b 23b 22a 21b |
| 490 | Pop_CFPxCZ | 54b 65Ba 52Bb 58Ba 56b |
| | Pop_CZ | 16b 22a 20a 8Ba 2b |
| 491 | Pop_CFPxCZ | 66b 58Bb 56b 65Bb 62b |
| | Pop_CZ | 21a 19a 16a 20b 1835a |
| 492 | Pop_CFPxCZ | 58Bb 63a 51Bb 66b 53a |

| Locus | Population | Individuals |
|---|---|---|
| | Pop_CZ | 21a 22b 88b 6a 9b |
| 493 | Pop_CFPxCZ | 57Ba 64b 65Bb 63a 54a |
| | Pop_CZ | 26a 21b 8Ba 3b 1835b |
| 494 | Pop_CFPxCZ | 66b 59a 56b 58Ba 65Bb |
| | Pop_CZ | 23b 2a 25b 1835a 88b |
| 495 | Pop_CFPxCZ | 55b 64a 59a 51Bb 56a |
| | Pop_CZ | 2b 16a 1b 1836b 4b |
| 496 | Pop_CFPxCZ | 65Ba 59a 58Ba 54a 53b |
| | Pop_CZ | 14Ba 4a 24Bb 20b 16b |
| 497 | Pop_CFPxCZ | 51Bb 66b 66a 58Ba 64a |
| | Pop_CZ | 1835a 2b 22b 16a 26b |
| 498 | Pop_CFPxCZ | 52Bb 53a 63a 62b 54b |
| | Pop_CZ | 9a 16b 7a 17a 8Bb |
| 499 | Pop_CFPxCZ | 54b 54a 65Ba 63b 59b |
| | Pop_CZ | 25b 88a 4a 19b 25a |
| 500 | Pop_CFPxCZ | 54b 55b 65Bb 65Ba 52Bb |
| | Pop_CZ | 15b 23a 16a 2a 3b |

# *Bayesian Analysis: Posterior distribution table*

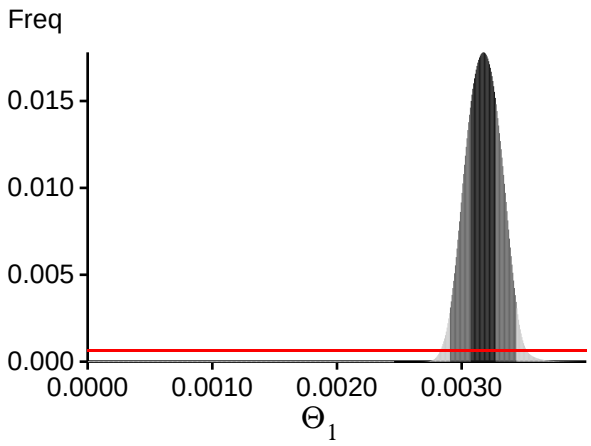
| Locus | Parameter | 2.5% | 25.0% | Mode | 75.0% | 97.5% | Median | Mean |
|---|---|---|---|---|---|---|---|---|
| All | $\Theta_1$ | 0.00290 | 0.00307 | 0.00318 | 0.00327 | 0.00344 | 0.00318 | 0.00318 |
| All | $\Theta_2$ | 0.00295 | 0.00315 | 0.00327 | 0.00339 | 0.00360 | 0.00328 | 0.00327 |
| All | $M_{2->1}$ | 4600.000 | 5233.333 | 5716.667 | 6166.667 | 6800.000 | 5750.000 | 5732.770 |
| All | $M_{1->2}$ | 4466.667 | 5066.667 | 5550.000 | 6000.000 | 6633.333 | 5583.333 | 5557.402 |

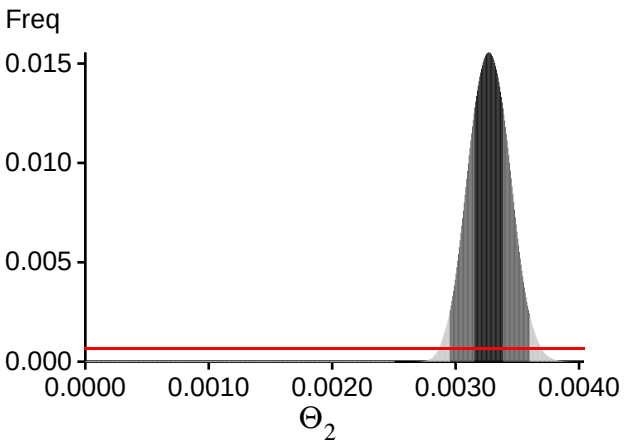
Citation suggestions:

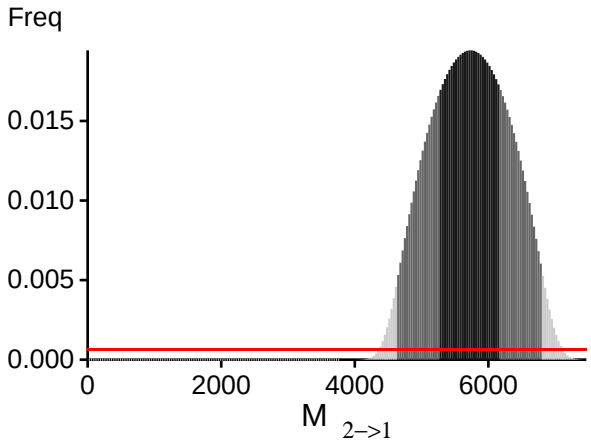
Beerli P., 2006. Comparison of Bayesian and maximum-likelihood inference of population genetic parameters. Bioinformatics 22:341-345

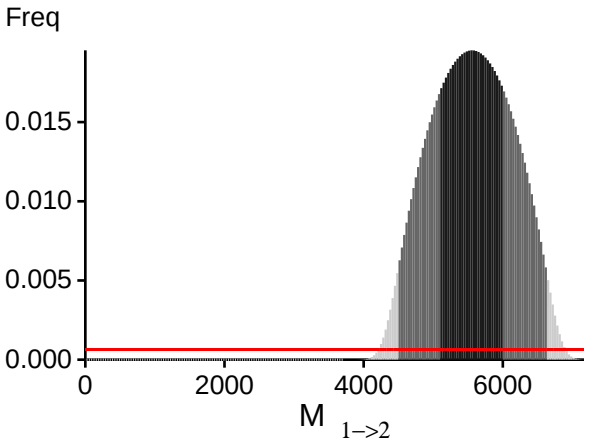
Beerli P., 2009. How to use MIGRATE or why are Markov chain Monte Carlo programs difficult to use? In Population Genetics for Animal Conservation, G. Bertorelle, M. W. Bruford, H. C. Hauffe, A. Rizzoli, and C. Vernesi, eds., vol. 17 of Conservation Biology, Cambridge University Press, Cambridge UK, pp. 42-79.

## *Bayesian Analysis: Posterior distribution over all loci*



## *Log-Probability of the data given the model (marginal likelihood)*

Use this value for Bayes factor calculations:
BF = Exp[ ln(Prob(D | thisModel) - ln( Prob( D | otherModel)
or as LBF = 2 (ln(Prob(D | thisModel) - ln( Prob( D | otherModel))
shows the support for thisModel]

| Locus | TI(1a) | BTI(1b) | HS(3) |
|---|---|---|---|
| 1 | -220.89 | -217.29 | -217.32 |
| 2 | -197.00 | -194.96 | -197.17 |
| 3 | -215.80 | -212.86 | -213.92 |
| 4 | -193.88 | -191.92 | -194.08 |
| 5 | -212.40 | -209.45 | -211.05 |
| 6 | -204.66 | -201.49 | -202.03 |
| 7 | -192.85 | -190.90 | -193.19 |
| 8 | -202.36 | -200.27 | -202.46 |
| 9 | -208.64 | -204.31 | -206.64 |
| 10 | -194.97 | -192.98 | -195.19 |
| 11 | -190.46 | -188.53 | -190.70 |
| 12 | -193.63 | -191.65 | -193.99 |
| 13 | -197.04 | -195.02 | -197.46 |
| 14 | -194.16 | -192.19 | -194.47 |
| 15 | -201.80 | -199.70 | -201.92 |
| 16 | -197.52 | -195.51 | -197.95 |
| 17 | -209.72 | -207.40 | -209.42 |
| 18 | -207.84 | -205.50 | -208.31 |
| 19 | -182.53 | -180.67 | -182.91 |
| 20 | -194.68 | -192.72 | -194.96 |
| 21 | -212.40 | -209.65 | -210.90 |
| 22 | -199.89 | -197.34 | -200.36 |
| 23 | -198.88 | -196.85 | -198.93 |
| 24 | -204.48 | -201.13 | -202.23 |
| 25 | -206.16 | -203.90 | -206.55 |
| 26 | -224.83 | -220.15 | -221.95 |
| 27 | -197.62 | -195.58 | -197.63 |
| 28 | -208.31 | -206.04 | -208.41 |
| 29 | -195.01 | -193.03 | -195.24 |

| | | | |
|---|---|---|---|
| 30 | -203.41 | -200.63 | -202.45 |
| 31 | -212.69 | -210.00 | -213.11 |
| 32 | -195.59 | -193.61 | -195.75 |
| 33 | -202.58 | -200.49 | -202.64 |
| 34 | -208.64 | -203.99 | -205.22 |
| 35 | -194.91 | -192.94 | -195.10 |
| 36 | -205.66 | -202.99 | -203.60 |
| 37 | -200.47 | -198.43 | -200.84 |
| 38 | -204.24 | -202.13 | -204.47 |
| 39 | -191.80 | -189.84 | -191.95 |
| 40 | -225.96 | -217.64 | -217.53 |
| 41 | -217.05 | -212.38 | -211.52 |
| 42 | -202.42 | -200.31 | -202.44 |
| 43 | -203.60 | -200.91 | -201.73 |
| 44 | -197.34 | -195.31 | -197.36 |
| 45 | -195.11 | -193.13 | -195.39 |
| 46 | -194.35 | -192.37 | -194.93 |
| 47 | -192.96 | -191.00 | -193.25 |
| 48 | -203.56 | -201.00 | -202.71 |
| 49 | -193.29 | -191.34 | -193.57 |
| 50 | -211.52 | -209.29 | -211.55 |
| 51 | -185.32 | -183.43 | -185.77 |
| 52 | -190.15 | -188.21 | -190.49 |
| 53 | -224.96 | -221.57 | -226.96 |
| 54 | -213.98 | -211.71 | -214.70 |
| 55 | -196.31 | -194.31 | -196.59 |
| 56 | -205.49 | -203.24 | -205.38 |
| 57 | -207.13 | -204.17 | -204.13 |
| 58 | -200.89 | -198.81 | -201.02 |
| 59 | -193.67 | -191.70 | -194.01 |
| 60 | -196.89 | -194.90 | -197.08 |
| 61 | -191.23 | -189.25 | -191.32 |
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| 461 | -208.04 | -204.15 | -205.40 |
| 462 | -196.25 | -193.75 | -194.85 |
| 463 | -193.20 | -191.25 | -193.40 |
| 464 | -194.97 | -192.99 | -195.27 |
| 465 | -195.70 | -193.71 | -196.08 |
| 466 | -211.12 | -208.77 | -210.83 |
| 467 | -198.93 | -196.86 | -199.41 |
| 468 | -216.76 | -208.19 | -208.84 |
| 469 | -203.64 | -201.52 | -203.98 |
| 470 | -204.95 | -202.27 | -203.01 |
| 471 | -198.64 | -196.57 | -198.69 |
| 472 | -214.12 | -209.60 | -210.66 |
| 473 | -198.34 | -196.32 | -198.79 |
| 474 | -224.94 | -216.13 | -215.80 |
| 475 | -171.08 | -169.34 | -171.30 |
| 476 | -207.81 | -203.75 | -203.25 |
| 477 | -176.50 | -174.70 | -176.73 |
| 478 | -197.19 | -195.19 | -197.60 |
| 479 | -198.99 | -196.92 | -199.04 |

| | | | |
|---|---|---|---|
| 480 | -204.44 | -202.33 | -204.82 |
| 481 | -194.30 | -192.34 | -194.69 |
| 482 | -200.34 | -198.27 | -200.49 |
| 483 | -190.09 | -188.15 | -190.39 |
| 484 | -185.55 | -183.66 | -185.71 |
| 485 | -200.19 | -198.12 | -200.38 |
| 486 | -203.44 | -200.78 | -201.48 |
| 487 | -208.97 | -206.70 | -208.45 |
| 488 | -192.21 | -190.27 | -192.64 |
| 489 | -204.83 | -202.72 | -205.03 |
| 490 | -195.75 | -193.75 | -196.05 |
| 491 | -259.03 | -247.86 | -246.19 |
| 492 | -192.56 | -190.60 | -193.13 |
| 493 | -202.65 | -199.29 | -199.97 |
| 494 | -186.88 | -184.97 | -187.19 |
| 495 | -222.37 | -217.68 | -217.86 |
| 496 | -200.02 | -196.65 | -197.59 |
| 497 | -201.72 | -199.14 | -200.13 |
| 498 | -223.72 | -220.54 | -223.12 |
| 499 | -220.92 | -214.33 | -216.06 |
| 500 | -204.42 | -202.30 | -204.51 |
| All | -99858.16 | -98431.41 | -99331.67 |

(1a) TI: Thermodynamic integration: log(Prob(D|Model)): Good approximation with many temperatures
(1b) BTI: Bezier-approximated Thermodynamic integration: when using few temperatures USE THIS!
(2) SS: Steppingstone Sampling (Xie et al 2011)
(3) HS: Harmonic mean approximation: Overestimates the marginal likelihood, poor variance
[Scaling factor = 1857.592298]
Citation suggestions:

Beerli P. and M. Palczewski, 2010. Unified framework to evaluate panmixia and migration direction among multiple sampling locations, Genetics, 185: 313-326.

Palczewski M. and P. Beerli, 2014. Population model comparison using multi-locus datasets. In M.-H. Chen, L. Kuo, and P. O. Lewis, editors, Bayesian Phylogenetics: Methods, Algorithms, and Applications, pages 187-200. CRC Press, 2014.

Xie W., P. O. Lewis, Y. Fan, L. Kuo, and M.-H. Chen. 2011. Improving marginal likelihood estimation for Bayesian phylogenetic model selection. Systematic Biology, 60(2):150â 160, 2011.

## *Acceptance ratios for all parameters and the genealogies*

| Parameter | Accepted changes | Ratio |
|---|---|---|
| $\Theta_1$ | 12499447/12499447 | 1.00000 |
| $\Theta_2$ | 12499208/12499208 | 1.00000 |
| $M_{2->1}$ | 12496953/12496953 | 1.00000 |
| $M_{1->2}$ | 12504198/12504198 | 1.00000 |
| Genealogies | 35312755/50000194 | 0.70625 |

## *MCMC-Autocorrelation and Effective MCMC Sample Size*

| Parameter | Autocorrelation | Effective Sampe Size |
|---|---|---|
| $\Theta_1$ | 0.02534 | 2016963.56 |
| $\Theta_2$ | 0.02694 | 2012010.06 |
| $M_{2->1}$ | 0.71674 | 351069.91 |
| $M_{1->2}$ | 0.71706 | 350218.14 |
| Genealogies | 0.02534 | 2016963.56 |

# *Average temperatures during the run*

| Chain | Temperatures |
|---|---|
| 1 | 0.00000 |
| 2 | 0.00000 |
| 3 | 0.00000 |
| 4 | 0.00000 |

Adaptive heating often fails, if the average temperatures are very close together try to rerun using static heating! If you want to compare models using marginal likelihoods then you MUST use static heating

# *Potential Problems*

This section reports potential problems with your run, but such reporting is often not very accurate. Whith many parameters in a multilocus analysi s, it is very common that some parameters for some loci will not be very informative, triggering suggestions (for example to increase the prior ran ge) that are not sensible. This suggestion tool will improve with time, therefore do not blindly follow its suggestions. If some parameters are fla gged, inspect the tables carefully and judge wether an action is required. For example, if you run a Bayesian inference with sequence data, for mac roscopic species there is rarely the need to increase the prior for Theta beyond 0.1; but if you use microsatellites it is rather common that your prior distribution for Theta should have a range from 0.0 to 100 or more. With many populations (>3) it is also very common that some migration rou tes are estimated poorly because the data contains little or no information for that route. Increasing the range will not help in such situations, reducing number of parameters may help in such situations.

No warning was recorded during the run