

佐賀県野生いのしし陽性事例 3 例目までの全ゲノム解析結果（系統樹）

89 例目農場(佐賀県 : R5. 8. 31)

Case 89 17 Saga Karatsu 230831
 Case 89 24 Saga Karatsu 230831
 Case 89 32 Saga Karatsu 230831
 Case 89 10 Saga Karatsu 230831
 Case 89 Saga Karatsu 230831

野生イノシシ(佐賀県 : R6. 5. 30~6. 6)

WB SG167278 Saga Karatsu 240603
 WB SG167277 Saga Karatsu 240530
 WB SG168761 Saga Karatsu 240606

Case 89 38 Saga Karatsu 230831
 Case 89 27 Saga Karatsu 230831
 Case 89 11 Saga Karatsu 230831
 Case 89 22 Saga Karatsu 230831
 Case 89 33 Saga Karatsu 230831
 Case 89 37 Saga Karatsu 230831
 Case 89 28 Saga Karatsu 230831
 Case 89 23 Saga Karatsu 230831
 Case 89 29 Saga Karatsu 230831
 Case 89 26 Saga Karatsu 230831
 Case 89 36 Saga Karatsu 230831
 Case 89 25 Saga Karatsu 230831

88 例目農場(佐賀県 : R5. 8. 30)

Case 88 8 Saga Karatsu 230830
 Case 88 23 Saga Karatsu 230830
 Case 88 Saga Karatsu 230830

Case 88 22 Saga Karatsu 230830
 Case 88 24 Saga Karatsu 230830
 Case 88 4 Saga Karatsu 230830
 Case 88 21 Saga Karatsu 230830

Case 89 8 Saga Karatsu 230831
 Case 89 21 Saga Karatsu 230831
 Case 89 35 Saga Karatsu 230831
 Case 89 34 Saga Karatsu 230831
 Case 89 41 Saga Karatsu 230831
 Case 89 2 Saga Karatsu 230831
 Case 89 39 Saga Karatsu 230831
 Case 89 31 Saga Karatsu 230831
 Case 89 40 Saga Karatsu 230831
 Case 89 7 Saga Karatsu 230831
 Case 89 30 Saga Karatsu 230831

WB SM116556 Shimane Tsuwano 220915
 WB SM116626 Shimane Masuda 221107
 WB SM116524 Shimane Tsuwano 220902

WB SM116648 Shimane Masuda 221129
 WB YA114854 Yamaguchi Yamaguchi 221005
 WB YA130183 Yamaguchi Hagi 230324

WB YA114855 Yamaguchi Hikari 221007
 WB YA125118 Yamaguchi Hofu 230123

WB YA114846 Yamaguchi Shunan 220824
 WB YA119729 Yamaguchi Hofu 230105

WB YA114881 Yamaguchi Shunan 220722

WB YA114831 Yamaguchi Kudamatsu 220526

WB YA114864 Yamaguchi Hikari 221209

WB YA114844 Yamaguchi Shunan 220804

WB YA114848 Yamaguchi Shunan 220901

WB YA126461 Yamaguchi Yamaguchi 230203

WB SM126333 Shimane Masuda 230131

WB HS127384 Hiroshima Hatsukaichi 230210

WB YA18 Yamaguchi Iwakuni 220313

WB YA19 Yamaguchi Iwakuni 220318

WB SM116517 Shimane Yoshika 220829

WB HS99548 Hiroshima Akiota 221013

WB HS126618 Hiroshima Akiota 230112

WB SM325 Shimane Yoshika 220517

WB HS99572 Hiroshima Hiroshima 221124

WB HS130021 Hiroshima Kitahiroshima 230316

WB YA114875 Yamaguchi Yanai 220610

WB YA114852 Yamaguchi Iwakuni 220922

WB YA119733 Yamaguchi Suo-oshima 230106

WB YA114839 Yamaguchi Iwakuni 220722

WB YA114851 Yamaguchi Iwakuni 220913

WB TT126210 Tottori Yazu 230127

野生イノシシ
(山口・広島・島根)

Artificial reference

0.001

Figure. Molecular Phylogenetic analysis by Maximum Likelihood method

The evolutionary history was inferred by using the Maximum Likelihood method based on the General Time Reversible model [1]. The tree with the highest log likelihood (-20703.1748) is shown. Initial tree(s) for the heuristic search were obtained automatically by applying Neighbor-Join and BioNJ algorithms to a matrix of pairwise distances estimated using the Maximum Composite Likelihood (MCL) approach, and then selecting the topology with superior log likelihood value. The tree is drawn to scale, with branch lengths measured in the number of substitutions per site. The analysis involved 71 nucleotide sequences. All positions containing gaps and missing data were eliminated. There were a total of 11826 positions in the final dataset. Evolutionary analyses were conducted in MEGA7 [2].

1. Nei M. and Kumar S. (2000). Molecular Evolution and Phylogenetics. Oxford University Press, New York.
2. Kumar S., Stecher G., and Tamura K. (2015). MEGA7: Molecular Evolutionary Genetics Analysis version 7.0 for bigger datasets. *Molecular Biology and Evolution* (submitted).

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