Test of substitution saturation (Xia et al. 2003; Xia and Lemey 2009) Testing whether the observed Iss is significantly lower than Iss.c. Part I. For a symmetrical tree. ======== Prop. invar. sites 0.0000 1.1530 Mean H Standard Error 0.0198 1.6282 Hmax 0.7082 lss 0.8288 lss.c 6.1026 Т DF 2819 Prob (Two-tailed) 0.0000 95% Lower Limit 0.6694 95% Upper Limit 0.7469 \_\_\_\_\_\_ Part II. For an extreme asymmetrical (and generally very unlikely) tree. \_\_\_\_\_ 0.7561 lss.c 2.4233 DF 2819 Prob (Two-tailed) 0.0154 95% Lower Limit 0.6694 95% Upper Limit 0.7469 \_\_\_\_\_\_ Interpretation of results: Significant Difference

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Yes No

\_\_\_\_\_

lss < lss.c Little Substantial

saturation saturation

\_\_\_\_\_

lss > Iss.c Useless Very poor

sequences for phylogenetics

## Please cite:

Xia, X., Z. Xie, M. Salemi, L. Chen, Y. Wang. 2003. An index of substitution saturation and its application. Molecular Phylogenetics and Evolution 26:1-7.

Xia, X. and Lemey, P. 2009. Assessing substitution saturation with DAMBE. Pp. 615-630 in Philippe Lemey, Marco Salemi and Anne-Mieke Vandamme, eds. The Phylogenetic Handbook: A Practical Approach to DNA and Protein Phylogeny. 2nd edition Cambridge University Press.