

Table S1. Results of analysis of variance of rust disease score of the 110 genotypes (108 RILs and their parents (Sukhothai 2 and Chiang Mai 5)) that were evaluated for resistance to *Phakopsora pachyrhizi*.

Source of variance	Degree of freedom	Sum of square	Mean square	F-test	Probability value
Replication	1	0.021	0.021	0.125	0.7244
Line	109	75.037	0.688	4.043	1.202e-12
Error	109	18.562	0.170		
Total	219	93.620			