Table S1. The SSR profiles from the whole genome library database of nipa (*Nypa fruticans* Wurmb.) using next-generation sequencing.

|  |  |
| --- | --- |
| **PARAMETER** | **COUNT** |
| Total number of sequences examines | 171,845 |
| Total size of examined sequences (bp) | 388,680,787 |
| Total number of identified SSRs  | 261,839 |
| Number of SSR containing sequences | 96,424 |
| Number of sequences containing more than 1 SSR | 55.412 |
| Number of SSRs present in compound formation | 65,127 |

Table S2. Genetic diversity indices of nipa (*Nypa fruticans* Wurmb.) populations in the Indo-West Pacific Region from 37 samples using microsatellite loci.

|  |  |
| --- | --- |
| **Geographic** | **Genetic Diversity Indices** |
| **Locationz** | **N** | **Na** | **Ne** | **I** | **Ho** | **He** | **F** | **%P** |
| **PH-NW** | 5 | 2.389 | 1.994 | 0.668 | 0.367 | 0.404 | 0.103 | 88.89 |
| **PH-SE** | 6 | 2.222 | 1.720 | 0.587 | 0.296 | 0.370 | 0.205 | 88.89 |
| **ML-NO** | 7 | 1.889 | 1.551 | 0.447 | 0.103 | 0.293 | 0.642 | 66.67 |
| **ML-SO** | 13 | 2.889 | 1.942 | 0.730 | 0.209 | 0.432 | 0.532 | 100.00 |
| **SL-SW** | 6 | 1.167 | 1.167 | 0.116 | 0.000 | 0.083 | 1.000 | 16.67 |
| **Total** | 37 |   |   |   |   |   |   |   |
| **Mean** |  | 2.111 | 1.675 | 0.510 | 0.195 | 0.316 | 0.388 | 72.22 |
| **SE** |   | 0.107 | 0.070 | 0.042 | 0.029 | 0.025 | 0.061 | 14.91 |

zPH-NW = Philippines-northwest; PH-SE = Philippines-southeast; ML-NO = Mainland Southeast Asia-north; ML-SO = Mainland Southeast Asia-south; SL-SW = Sri Lanka- southwest; N = sample size; N**a** = number of different alleles; N**e** = number of effective alleles; I = Shannon’s Information Index; H**o** = observed heterozygosity; H**e** = expected heterozygosity; F = fixation index; %P = percent polymorphic loci; SE = standard error



Fig. S1. Percent distribution of repeat types from the whole genome sequences of nipa (*Nypa fruticans* Wurmb.)



Fig. S2. Results of polyacrylamide gel electrophoresis and the corresponding allele size (bp) of each sample from Indo-West Pacific Region for Nfr58 primer set (Note: The code indicates geographic location followed by sample name; PH-SE = Philippines-southeast; PH-NW = Philippines-northwest; ML-SO = Mainland Southeast Asia-south; SL-SW = Sri Lanka- southwest; ML-NO = Mainland Southeast Asia-north).