

**Table S2.** Summary of *ITS2* diversity and neutrality test in *An. introlatus*, *An. latens*, *An. cracens* and *An. balabacensis*. Values marked with asterisk indicate significant: \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

Species	Subpopulation	No of haplotypes, H	Nucleotide diversity, $\pi$	Haplotype diversity, Hd	Neutrality test	
					Tajima's D	Fu's Fs
<i>An. introlatus</i>	<b>JOHOR</b>					
	Gunung Pant	3	0.00073 $\pm$ 0.00033	0.524 $\pm$ 0.209	-1.237	-0.922
	Kg. Seri Delima	1	-	-	-	-
	Kem Microwave	3	0.00017 $\pm$ 0.00017	0.132 $\pm$ 0.068	-1.304	-2.149
	Hutan Lengg	2	0.00006 $\pm$ 0.00006	0.045 $\pm$ 0.043	-1.115	-1.530
	Kongsi Balak	7	0.00091 $\pm$ 0.00091	0.484 $\pm$ 0.100	-1.664	-3.802
	Kg. OA Punjut	1	-	-	-	-
	Kg. OA Berasau	1	-	-	-	-
	Total	10	0.00036 $\pm$ 0.00036	0.226 $\pm$ 0.049	-2.078*	-11.886
	<b>KELANTAN</b>					
	Kg. Lalang	1	0.00000 $\pm$ 0.00000	0.000 $\pm$ 0.000	0.000	0.000
	Kg. Dusun Durian	1	-	-	-	-
	Kg. Lebur Jaya	1	-	-	-	-
	Total	1	0.00000 $\pm$ 0.00000	0.000 $\pm$ 0.000	0.000	0.000
	<b>PAHANG</b>					
	Kem Sri Gading	2	0.00026 $\pm$ 0.00026	0.200 $\pm$ 0.154	-1.112	0.339
	Total	2	0.00026 $\pm$ 0.00026	0.200 $\pm$ 0.154	-1.112	0.339
	<b>PERAK</b>					
	Kg. Sg Dara	1	0.00000 $\pm$ 0.00000	0.000 $\pm$ 0.000	0.000	0.000
	Kg. Draco	1	0.00000 $\pm$ 0.00000	0.000 $\pm$ 0.000	-	-
	Total	1	0.00000 $\pm$ 0.00000	0.000 $\pm$ 0.000	0.000	0.000
	<b>NEGERI SEMBILAN</b>					
	Kebun Durian Tekir	1	0.00000 $\pm$ 0.00000	0.000 $\pm$ 0.000	-	-
	Hutan Lenggeng	1	0.00051 $\pm$ 0.00030	0.400 $\pm$ 0.237	-0.817	0.090
	Total	2	0.00037 $\pm$ 0.00037	0.286 $\pm$ 0.196	-1.006	-0.095
	<b>SELANGOR</b>					
	Hulu Kalong	5	0.00513 $\pm$ 0.00124	1.000 $\pm$ 0.126	-1.193	-1.716
	Sg. Sendat	5	0.00411 $\pm$ .00412	1.000 $\pm$ 0.126	1.174	-2.116
	Total	10	0.00456 $\pm$ 0.00458	1.000 $\pm$ 0.045	-1.899*	-7.454*
	<b>Overall Total</b>	21	0.00057 $\pm$ 0.00057	0.283 $\pm$ 0.045	-2.604***	-32.340**
<i>An. latens</i>	<b>JOHOR</b>					
	Gunung Pant	2	0.00080 $\pm$ 0.00037	0.324 $\pm$ 0.136	-0.697	-0.623
	Total	2	0.00080 $\pm$ 0.00037	0.324 $\pm$ 0.136	-0.697	-0.623
	<b>KELANTAN</b>					
	Kg. Lalang	2	0.00100 $\pm$ 0.00018	0.533 $\pm$ 0.095	1.303	1.029
	Total	2	0.00100 $\pm$ 0.00018	0.533 $\pm$ 0.095	1.303	1.029
	<b>SABAH</b>					
	Danum Valley Field Centre	12	0.00582 $\pm$ 0.00099	0.956 $\pm$ 0.033	-1.827*	-6.395
	Total	12	0.00582 $\pm$ 0.00099	0.956 $\pm$ 0.033	-1.827*	-6.395
	<b>SARAWAK</b>					
	Taman Ixora	1	-	-	-	-
	Kg. Sawang	1	-	-	-	-
	Rumah Sewa Panto	2	0.00674 $\pm$ 0.00358	0.500 $\pm$ 0.265	-0.817	3.251
	Total	2	0.00450 $\pm$ 0.00290	0.333 $\pm$ 0.215	-1.390	3.361
	<b>Overall Total</b>	16	0.02072 $\pm$ 0.00098	0.785 $\pm$ 0.054	0.883	1.901
<i>An. cracens</i>	<b>PAHANG</b>					
	Sg. Ular	10	0.00201 $\pm$ 0.00051	0.737 $\pm$ 0.111	-2.345**	-6.501**
	Kem Sri Gading	3	0.00066 $\pm$ 0.00012	0.444 $\pm$ 0.071	0.018	0.128
	Total	12	0.00117 $\pm$ 0.00023	0.562 $\pm$ 0.071	-2.292	-9.187
	<b>PERLIS</b>					

	Perlis	4	0.00517 ± 0.00105	0.900 ± 0.161	0.913	0.051
	Total	4	0.00517 ± 0.00105	0.900 ± 0.161	0.913	0.051
	<b>Overall Total</b>	15	0.00165 ± 0.00035	0.611 ± 0.067	-2.372**	-10.779**
<i>An. balabacensis</i>	<b>SARAWAK</b>					
	Kem Kayu Balak Merarap	1	0.0000 ± 0.0000	0.000 ± 0.000	0.000	0.000
	Simpang Utong	2	0.00127 ± 0.00060	0.667 ± 0.314	-	-
	Kebun Ldg Sawit Jelapang	1	0.00000 ± 0.00000	0.000 ± 0.000	-	-
	Total	2	0.00015 ± 0.00013	0.077 ± 0.070	-1.156	-1.094
	<b>SABAH</b>					
	Paradason	1	0.00000 ± 0.00000	0.000 ± 0.000	0.000	0.000
	Limbuak Laut	9	0.00395 ± 0.00080	0.939 ± 0.058	-1.790*	-5.622*
	Kudat	1	0.00000 ± 0.00000	0.000 ± 0.000	0.000	0.000
	Total	9	0.00152 ± 0.00046	0.488 ± 0.109	-2.244**	-6.395**
	<b>Overall total</b>	10	0.00091 ± 0.00028	0.317 ± 0.080	-2.351**	-9.865**