

**Supplementary Table S1.** Primer set sequences used for mosquito species and cycling parameters

Mosquito species	Primers	
	<i>kdr</i> gene (Domain II)	<i>ace</i> gene
<i>Aedes vexans nipponii</i>	<i>Av kdr</i> -DII-Forward: 5'-CCTGCCACGGTGGAAGCTTC-3' <i>Av kdr</i> -DII-Reverse: 5'-GACAAAAGCAAGGCTAAGAA-3'	<i>Av ace</i> -Forward: 5'-CCSGGNGCVACCATGTGGA-3' <i>Av ace</i> -Reverse: 5'-ACGATHACGTTYTCYTCBGA-3'
<i>Aedes albopictus</i>	<i>Aa kdr</i> -DII-Forward: 5'-GACAATGTGGATCGCTTCCC-3' <i>AaKDR</i> -DII-Reverse: 5'-GCAATCTGGCTTGTTAACTTTG-3'	<i>Aa ace</i> -Forward: 5'- CCACTATCCGAAGACTGTCTATACATC-3' <i>Aa ace</i> -Reverse: 5'- ACGATAACGTTYCTTCCGATGCRAGC-3'
<i>Anopheles</i> spp.	<i>A kdr</i> DII-Forward: 5'-TGGATHGARTCVATGTGGGAYTG-3' <i>As kdr</i> -DII-Reverse: 5'-GCDATYTRTTSGTYTCRTRRTC-3'	<i>A ace</i> -Forward: 5'-CCSGGNGCVACCATGTGGA-3' <i>A ace</i> -Reverse: 5'-ACGATHACGTTYTCYTCBGA-3'
<i>Culex pipiens</i> complex	<i>Cp kdr</i> -DII-Forward: 5'-CCTGCCACGGTGGAAGCTTC-3' <i>Cp kdr</i> -DII-Reverse: 5'-GGACAAAAGCAAGGCTAAGAA-3'	<i>Cp ace</i> -Forward: 5'-CCSGGNGCVACCATGTGGA-3' <i>Cp ace</i> -Reverse: 5'-ACGATHACGTTYTCYTCBGA-3'
<i>Culex tritaeniorhynchus</i>	<i>Ct kdr</i> -DII-Forward: 5'-CCTGCCACGGTGGAAGCTTC-3' <i>Ct kdr</i> -DII-Reverse: 5'-GGACAAAAGCAAGGCTAAGAA-3'	<i>Ct ace</i> -Forward: 5'-CCSGGNGCVACCATGTGGA-3' <i>Ct ace</i> -Reverse: 5'-ACGATHACGTTYTCYTCBGA-3'