

SUPPLEMENTARY INFORMATION

Supplementary Table 1 | Zika virus “ZikaAsian” scheme used by ZiBRA project generated by the Primal Scheme software ¹⁵.

Name	Sequence	Pool
ZIKA_400_1_LEFT	GACAGTTCGAGTTTGAAGCGAAAG	1
ZIKA_400_1_RIGHT	AGTATGCACTCCCACGTCTAGT	1
ZIKA_400_2_LEFT	AAGAAAGATCTGGCTGCCATGC	2
ZIKA_400_2_RIGHT	TGATTCCAACCAGGTTTGCAC	2
ZIKA_400_3_LEFT	AGATGACGTCGATTGTTGGTGC	1
ZIKA_400_3_RIGHT	TACGGTGACACAACCTCCATGT	1
ZIKA_400_4_LEFT	TCAGGTGCATAGGAGTCAGCAA	2
ZIKA_400_4_RIGHT	GGAGCCATGAACTGACAGCATT	2
ZIKA_400_5_LEFT	AGAACGTTAGTGGACAGAGGCT	1
ZIKA_400_5_RIGHT	TGTGCGTCCTTGAACCTACCA	1
ZIKA_400_6_LEFT	TTGATTGTGAACCGAGGACAGG	2
ZIKA_400_6_RIGHT	CCATCTGTCCCTGCGTACTGTA	2
ZIKA_400_7_LEFT	TGAAGGGCGTGCATACTCCTT	1
ZIKA_400_7_RIGHT	CGCCTCCAACCTGATCCAAAGTC	1
ZIKA_400_8_LEFT	GGGAGAAGAAGATCACCCACCA	2
ZIKA_400_8_RIGHT	TTGACTGCTGCTGCCAATCTAC	2
ZIKA_400_9_LEFT	GCCTTAGGGGGAGTGTGATCT	1
ZIKA_400_9_RIGHT	GAGTGGGCATTCCTTCAGTGTG	1
ZIKA_400_10_LEFT	ACGGTCGTTGTGGGATCTGTAA	2
ZIKA_400_10_RIGHT	GTGGGACTTTGGCCATTACAT	2
ZIKA_400_11_LEFT	CAGCCGTTATTGGAACAGCTGT	1
ZIKA_400_11_RIGHT	CCTGGGCCTTATCTCCATTCCA	1
ZIKA_400_12_LEFT	CACTAAGGTCCACGTGGAGGAA	2
ZIKA_400_12_RIGHT	TATCAGCGCCAGATGAGCTACA	2
ZIKA_400_13_LEFT	TGGCAGTGCTGGTAGCTATGAT	1
ZIKA_400_13_RIGHT	AGAGAGAGGAGCATAAACCCCC	1
ZIKA_400_14_LEFT	CAATGGTTTTGCTTTGGCCTGG	2
ZIKA_400_14_RIGHT	TTTCCCATGTGATGTCACCTGC	2
ZIKA_400_15_LEFT	CCCTAGCGAAGTACTCACAGCT	1
ZIKA_400_15_RIGHT	TACACTCCATCTGTGGTCTCCC	1
ZIKA_400_16_LEFT	GTGGCATGAACCCAATAGCCAT	2
ZIKA_400_16_RIGHT	GCTCCAATGTCCCCATCCTTTG	2
ZIKA_400_17_LEFT	GTGGTCCATGGAAGCTAGATGC	1
ZIKA_400_17_RIGHT	CCTCTAAGGGCCTCCTCATT	1
ZIKA_400_18_LEFT	CTGTTGAGTGCTTCGAGCCTTC	2

ZIKA_400_18_RIGHT	TGGTGAGTTGGAGTCCGGAAAT	2
ZIKA_400_19_LEFT	TATGGATGAGGCCACTTCACA	1
ZIKA_400_19_RIGHT	GCCATCAAGTATGACCGGCTTT	1
ZIKA_400_20_LEFT	GGCTGGAAAACGGGTCATACAG	2
ZIKA_400_20_RIGHT	CCTTTGCTCCGTCCTAAGCTTG	2
ZIKA_400_21_LEFT	AGAGACTGACGAAGACCATGCA	1
ZIKA_400_21_RIGHT	CTCCAAAAGCCGCTCCTCTTTT	1
ZIKA_400_22_LEFT	TGGACCAGACACGGAGAGAAAA	2
ZIKA_400_22_RIGHT	ATTCTGGCTGGCTCAATTTCCG	2
ZIKA_400_23_LEFT	CGTCTTGATGAGGAACAAGGGC	1
ZIKA_400_23_RIGHT	AAGTGGTCACTGCATGTTGGAC	1
ZIKA_400_24_LEFT	TAATGGGAAGGAGAGAGAGGGG	2
ZIKA_400_24_RIGHT	TCTCCACTTGGGGGTCAATTGT	2
ZIKA_400_25_LEFT	CCCTGACCCTAATAGTGGCCAT	1
ZIKA_400_25_RIGHT	CCTTCCATTTCTCTCCAGGGT	1
ZIKA_400_26_LEFT	ACTGGAACCTCTACAGCCAC	2
ZIKA_400_26_RIGHT	ACCAGGCCTCCTTTTGTGTAT	2
ZIKA_400_27_LEFT	AGTGCAAAGCTGAGATGGTTGG	1
ZIKA_400_27_RIGHT	ATGTGTAGAGTTGCGGGAGAGT	1
ZIKA_400_28_LEFT	GGTGGGGGATTGGCTTGAAAAA	2
ZIKA_400_28_RIGHT	GGGCCTCATAGCTTCCATGGTA	2
ZIKA_400_29_LEFT	AGGATGTGAATCTCGGCTCTGG	1
ZIKA_400_29_RIGHT	ATGCTGCATTGCTACGAACCTT	1
ZIKA_400_30_LEFT	AAAAGTGGACACTAGGGTGCCA	2
ZIKA_400_30_RIGHT	TAATCCCAGCCCTTCAACACCA	2
ZIKA_400_31_LEFT	ACAAGGGGAATTTGGAAAGGCC	1
ZIKA_400_31_RIGHT	CGTAAGTGACAACCTGTCCGCT	1
ZIKA_400_32_LEFT	AAATGGAAAAAGGGCACAGGGC	2
ZIKA_400_32_RIGHT	TGTCCATCCAGTTGAGGGTTT	2
ZIKA_400_33_LEFT	CAAACGAATGGCAGTCAGTGGA	1
ZIKA_400_33_RIGHT	ATCCCACTCTGTTCCACACCA	1
ZIKA_400_34_LEFT	ATTTCCACAGAAGGGACCTCCG	2
ZIKA_400_34_RIGHT	TGACTAGCAGGCCTGACAACAT	2
ZIKA_400_35_LEFT	ACCACCTGGGCTGAGAACATTA	1
ZIKA_400_35_RIGHT	ACCACTAGTCCCTTCTTGAG	1

Supplementary Table 2 | Chikungunya virus “ChikAsiaECSA” 400 nt scheme.

Name	Sequence	Pool
CHIK_400_1_LEFT_3	CTTTTTGAAGGCCCTGCAACGT	1
CHIK_400_1_RIGHT_3	ACGGCCATCACCTCTTGTAAAGT	1

CHIK_400_2_LEFT_0	TGTCGGACAGGAAGTACCACTG	2
CHIK_400_2_RIGHT_0	CTCATCCGCCCAATTTGTCGAG	2
CHIK_400_3_LEFT_0	GTA CTGGGTAGGGTTGCACACA	1
CHIK_400_3_RIGHT_0	CACACGAAACCACTGTGTCACA	1
CHIK_400_4_LEFT_4	TCGGTGTTCATCTAAAGGGCA	2
CHIK_400_4_RIGHT_4	CTTCATGGTGTTCTGTTCCGT	2
CHIK_400_5_LEFT_0	GGTGGGGCTGAACCAGAGAATA	1
CHIK_400_5_RIGHT_0	TACAAAGCTGTGAATTCGGCC	1
CHIK_400_6_LEFT_4	AAGCAGAAAACACACACGGTCT	2
CHIK_400_6_RIGHT_4	GCGCCTCTCGGAGTCTCTATTA	2
CHIK_400_7_LEFT_0	TACAGGCAGCACAGGAAGATGT	1
CHIK_400_7_RIGHT_0	TGGAAGTCTTCGGGCGAAATTG	1
CHIK_400_8_LEFT_1	GGAGCAAGTGAAGACGTGTACG	2
CHIK_400_8_RIGHT_1	TATATGGACAAGCGGGCGAAT	2
CHIK_400_9_LEFT_0	TGCAAGAAGGAAGAAGCTGCAG	1
CHIK_400_9_RIGHT_0	AAGGCGATCAAGGCAAGTAACG	1
CHIK_400_10_LEFT_0	ATCTGCACGTACGGTTGATTCTG	2
CHIK_400_10_RIGHT_0	GGTTTTGTTGAGCCCGTAGTGT	2
CHIK_400_11_LEFT_0	GGCAAATGCGCACTACGAATG	1
CHIK_400_11_RIGHT_0	CCTCCGTACGCGTTAGGAGTA	1
CHIK_400_12_LEFT_1	AGGAGTTTACGCAGTTAGGCAAA	2
CHIK_400_12_RIGHT_1	TTCATTCAGGGCTACTTCGGGT	2
CHIK_400_13_LEFT_0	TGGTCCCTATCCTCGAAACAGC	1
CHIK_400_13_RIGHT_0	TCCTGGTAGTCACGCAGATCTG	1
CHIK_400_14_LEFT_0	TGAGGCAGCGTCCATTCTAGAA	2
CHIK_400_14_RIGHT_0	ATACCTACCAAGTGTGCCGGT	2
CHIK_400_15_LEFT_4	ACCTTGCACTGCCTACTAAGAGA	1
CHIK_400_15_RIGHT_4	ACATGGTGGTTTCAATGCTCTGG	1
CHIK_400_16_LEFT_0	TCAGAGCATACGGTTACGCAGA	2
CHIK_400_16_RIGHT_0	TTTGCGGTTCTACTGGTGTTG	2
CHIK_400_17_LEFT_0	GACGGTGGTTGCAAGGCAGTAT	1
CHIK_400_17_RIGHT_0	TCCATGGCTGTAAAGAGGTGGT	1
CHIK_400_18_LEFT_0	ACCTCTCTCCACAGGTGTA	2
CHIK_400_18_RIGHT_0	GCCTCTATTTGCTTTGGCCACA	2
CHIK_400_19_LEFT_0	AAGGGACACGTTTTCCACCAGAC	1
CHIK_400_19_RIGHT_0	GGAGCATTTGACTTTTTGCACTCC	1
CHIK_400_20_LEFT_0	CGACTTCGCATGAACCATGTCA	2
CHIK_400_20_RIGHT_0	GTATGTATCGCCCCGTCGTCTA	2
CHIK_400_21_LEFT_0	AGTTTGATCTAAGCGCCGATGG	1
CHIK_400_21_RIGHT_0	AAATGTGATGGGGAACGTCTCG	1

CHIK_400_22_LEFT_0	CGCGTGACACAGCTATTCCTT	2
CHIK_400_22_RIGHT_0	TGGCGTACCGACTTCTGTTGTA	2
CHIK_400_23_LEFT_0	ACACGGACGACGAGTTATGACT	1
CHIK_400_23_RIGHT_0	GACAATCGGACGTTGATCGGAG	1
CHIK_400_24_LEFT_0	TAATGGCAGAGACCCCGAAAGT	2
CHIK_400_24_RIGHT_0	TGTGTTCTGGAATGGGGAAGGT	2
CHIK_400_25_LEFT_0	CGAGCGACATTCAATCCGCAA	1
CHIK_400_25_RIGHT_0	CGGCAGCAGATTATGGGTCTT	1
CHIK_400_26_LEFT_3	GAAGAATTTGCTGCCAGCCCTA	2
CHIK_400_26_RIGHT_3	GTGCGGCTATAATGGCATCGAA	2
CHIK_400_27_LEFT_0	TTAGGAGATTGAACGCCGTCCT	1
CHIK_400_27_RIGHT_0	GTCAGACGATCTTCCAACACCC	1
CHIK_400_28_LEFT_2	GACAGGTACGCGCTTCAAGTTC	2
CHIK_400_28_RIGHT_2	CGCTAACGGTTTGCCAGTTTA	2
CHIK_400_29_LEFT_0	AGCTCCCTACTTTTGTGGAGGG	1
CHIK_400_29_RIGHT_0	GACCGCCGTACAAGTTATGAC	1
CHIK_400_30_LEFT_0	TAATGTCCATGGCCACCTTTC	2
CHIK_400_30_RIGHT_0	TATTCTCCGATTCTTGC	2
CHIK_400_31_LEFT_0	CAACTTGCCAGCTGATCTCAG	1
CHIK_400_31_RIGHT_0	ATCGATGGTCCCCTTACGTGT	1
CHIK_400_32_LEFT_0	TAAGGTAACAGGTTACGCGTGC	2
CHIK_400_32_RIGHT_0	TACGGGCTCCTTATTAGCTCC	2
CHIK_400_33_LEFT_2	GACCGATCTTCGACAACAAGGG	1
CHIK_400_33_RIGHT_2	GCGTCGGGAGAACATGTTAAG	1
CHIK_400_34_LEFT_0	GAGAAAACCTTGCGCATGCTTG	2
CHIK_400_34_RIGHT_0	CTGCTGGCATGTGATTGCCAT	2
CHIK_400_35_LEFT_0	CCAGGTTTCCTTGCAAATCGGA	1
CHIK_400_35_RIGHT_0	GTACGTGCTGCAAGGTAGTTC	1
CHIK_400_36_LEFT_1	CATGTACGCACCCATTCACCA	2
CHIK_400_36_RIGHT_1	GGTCCCCGAATTCAGCATTACG	2
CHIK_400_37_LEFT_0	CTGCAAGGTCGATCAATGCCAT	1
CHIK_400_37_RIGHT_0	TCATTGTTACCCACGTGACCT	1
CHIK_400_38_LEFT_0	AGTGGGTGACGCATAAGAAGGA	2
CHIK_400_38_RIGHT_0	TGGTGTGAGTTCGTACGGTGTA	2
CHIK_400_39_LEFT_0	ATACTCTGTCGATGGTGGGTG	1
CHIK_400_39_RIGHT_0	CGGGATCACTGTTACGTGTTTCG	1
CHIK_400_40_LEFT_0	TTTTTAGCCGTAAGCGTTCG	2
CHIK_400_40_RIGHT_0	ATTTTCGGTGTGCGAGAAGCAG	2
CHIK_400_41_LEFT_0	GCGGTACAGCAGAGTGAAGGA	1
CHIK_400_41_RIGHT_0	GTCGCCTTTGTACACCACGATT	1

CHIK_400_42_LEFT_0	CCATGCCGTCACAGTTAAGGAC	2
CHIK_400_42_RIGHT_0	AGTTCATCGCTCTTACCGGGTT	2
CHIK_400_43_LEFT_0	ATTGGCTAAAAGAACGAGGGGC	1
CHIK_400_43_RIGHT_0	TTCCCGAATAGTGACGGCGTTA	1
CHIK_400_44_LEFT_0	GCACCCATTCTCAGACTTTGG	2
CHIK_400_44_RIGHT_0	CCTGCTAAACGACACGCATAGC	2