

Additional file 2: Alignment of cloned *Ace-I* sequences from alive mosquitoes 24h after exposure to bendiocarb and propoxur in comparison of the sequence from the susceptible lab strain (Kisumu).

| | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|
| | 10 | 20 | 30 | 40 | 50 |
| Kisumu | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| | GGTCACGGTG | AGTCCGTACG | AATTATAGAT | GCCGAGTTGG | GCACGCTCGA |
| Ben_A1_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A1_4 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A1_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A4_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A4_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A4_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_2 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_6 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A5_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A5_4 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A5_6 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A8_2 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A8_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A8_4 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A9_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A9_2 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A9_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A9_4 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A10_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A10_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A10_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A10_2 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A10_4 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| | 60 | 70 | 80 | 90 | 100 |
| Kisumu | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| | GCA | TGTCCCA | CAGTGGAGCA | ACGCCGCGGC | GACGCGGCCT |
| | | | | | GACGAGGCGC |
| Ben_A1_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A1_4 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A1_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A4_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A4_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A4_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_1 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_2 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_3 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_5 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Ben_A7_6 | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| Prop_A5_1 | | | | | |
| Prop_A5_4 | | | | | |
| Prop_A5_6 | | | | | |
| Prop_A8_2 | | | | | |
| Prop_A8_3 | | | | | |
| Prop_A8_4 | | | | | |
| Prop_A9_1 | | | | | |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |

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|------------|-------|-------|-------|----------------|
| Prop_A9_4 | | | |T..T..... |
| Prop_A10_1 | | | |T..... |
| Prop_A10_3 | | | |T..... |
| Prop_A10_5 | | | |T..... |
| Prop_A10_2 | | | |T..... |
| Prop_A10_4 | | | |T..... |

| | 110 | 120 | 130 | 140 | 150 |
|------------|-------------|--------------|------------|-------------|------------|
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| Ben_A1_3 | GAGTCAAAC | TGCGGGTAAGTA | CGCGATTGGA | AGTGGGGGGA | CGTTTACCCT |
| Ben_A1_4 | | | | | |
| Ben_A1_5 | | | | | |
| Ben_A4_1 | | | | | |
| Ben_A4_3 | | | | | |
| Ben_A4_5 | | | | | |
| Ben_A7_1 | | | | | |
| Ben_A7_2 | | | | | |
| Ben_A7_3 | | | | | |
| Ben_A7_5 | | | | | |
| Ben_A7_6 | | | | | |
| Prop_A5_1 | | | | | |
| Prop_A5_4 | | | | | |
| Prop_A5_6 | | | | | |
| Prop_A8_2 | | | | | |
| Prop_A8_3 | | | | | |
| Prop_A8_4 | | | | | |
| Prop_A9_1 | | | | | |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 |C..... | ..... | ..... | .....A..... | ..... |
| Prop_A10_1 | | | | | |
| Prop_A10_3 | | | | | |
| Prop_A10_5 | | | | | |
| Prop_A10_2 | | | | | |
| Prop_A10_4 |C..... | ..... | ..... | .....A..... | ..... |

| | 160 | 170 | 180 | 190 | 200 | |
|-----------|-----------|-----------|-------------|------------|------------|------------|
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |  |
| Ben_A1_3 | ACCGTG | TACTACT | ACTACAACGC | ACTTTACCCC | CACGCACACG | CACCGGCAGA |
| Ben_A1_4 | | | | | | |
| Ben_A1_5 | | | | | | |
| Ben_A4_1 | | | | | | |
| Ben_A4_3 | | | | | | |
| Ben_A4_5 | | | | | | |
| Ben_A7_1 | | | | | | |
| Ben_A7_2 | | | | | | |
| Ben_A7_3 | | | | | | |
| Ben_A7_5 | | | | | | |
| Ben_A7_6 | | | | | | |
| Prop_A5_1 | | | | | | |
| Prop_A5_4 | | | | | | |
| Prop_A5_6 | | | | | | |
| Prop_A8_2 | | | | | | |
| Prop_A8_3 | | |A..... | | | |
| Prop_A8_4 | | |A..... | | | |

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|------------|-------------|-------|-------|-------|-------|
| Prop_A9_1 | | | | | |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 | | | | | |
| Prop_A10_1 | | | | | |
| Prop_A10_3 |C..... | | | | |
| Prop_A10_5 | | | | | |
| Prop_A10_2 | | | | | |
| Prop_A10_4 | ..... | ..... | ..... | ..... | ..... |

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| | 210 | 220 | 230 | 240 | 250 |
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| Ben_A1_3 | CGCGAACGAC | AACGATCCGC | TGGTGGTCAA | CACGGATAAG | GGGCGCATCC |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..T..... | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..T..... | ..... | ..... |
| Prop_A8_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 | | | | | |
| Prop_A10_1 | | | | | |
| Prop_A10_3 | | | | | |
| Prop_A10_5 | | | | | |
| Prop_A10_2 | | | | | |
| Prop_A10_4 | | | | | |

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|-----------|------------|------------|------------|------------|------------|
| | 260 | 270 | 280 | 290 | 300 |
| Kisumu | | | | | |
| Ben_A1_3 | GCGGCATTAC | GGTCGATGCG | CCCAGCGGCA | AGAAGGTGGA | CGTGTGGCTC |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 | | | | | |
| Ben_A4_5 | | | | | |
| Ben_A7_1 | | | | | |
| Ben_A7_2 | | | | | |
| Ben_A7_3 | | | | | |
| Ben_A7_5 | | | | | |
| Ben_A7_6 | | | | | |
| Prop_A5_1 | | | | | |
| Prop_A5_4 | | | | | |
| Prop_A5_6 | | | | | |

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|------------|-------|-------|-------|-------|-------|
| Prop_A8_2 | | | | | |
| Prop_A8_3 | | | | | |
| Prop_A8_4 | | | | | |
| Prop_A9_1 | | | | | |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 | | | | | |
| Prop_A10_1 | | | | | |
| Prop_A10_3 | | | | | |
| Prop_A10_5 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_4 | ..... | ..... | ..... | ..... | ..... |

| | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|
| | 310 | 320 | 330 | 340 | 350 |
| Kisumu | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| | GGCATTCCCT | ACGCCCAGCC | GCCGGTCGGG | CCGCTACGTT | CCGTCATCCG |
| Ben_A1_3 | ..... | ..... | T.....C |A.. | ..... |
| Ben_A1_4 | ..... | ..... | T.....C |A.. | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..... | T.....C |A.. | ..... |
| Prop_A8_4 | ..... | ..... | T.....C |A.. | ..... |
| Prop_A9_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 | | | T.....C |A.. | |
| Prop_A10_1 | | | | |T. |
| Prop_A10_3 | | | | | |
| Prop_A10_5 | | | | | |
| Prop_A10_2 | | | | | |
| Prop_A10_4 | | | | | |

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|----------|-------------|-------------|-------------|-------------|-------------|
| | 360 | 370 | 380 | 390 | 400 |
| Kisumu | | | | | |
| | CGGCCGCCGA | AAAGTGGACC | GGCGTGCTGA | ACACGACCAC | ACCGCCCAAC |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | | | | | |
| Ben_A1_5 | | | | | |
| Ben_A4_1 | | | | | |
| Ben_A4_3 | | | | | |
| Ben_A4_5 | | | | | |
| Ben_A7_1 | | | | | |
| Ben_A7_2 | | | | | |
| Ben_A7_3 | | | | | |
| Ben_A7_5 | | | | | |
| Ben_A7_6 | | | | | |

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|------------|-------|-------|-------|-------|-------|
| Prop_A5_1 | | | | | |
| Prop_A5_4 | | | | | |
| Prop_A5_6 | | | | | |
| Prop_A8_2 | | | | | |
| Prop_A8_3 | | | | | |
| Prop_A8_4 | | | | | |
| Prop_A9_1 | | | | | |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 | | | | | |
| Prop_A10_1 | | | | | |
| Prop_A10_3 | | | | | |
| Prop_A10_5 | | | | | |
| Prop_A10_2 | | | | | |
| Prop_A10_4 | | | | | |

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|------------|-------------|-------------|-------------|-------------|-------------|
| | 410 | 420 | 430 | 440 | 450 |
| Kisumu | | | | | |
| | AGCTGCGTGC | AGATCGTGGA | CACCGTGTTT | GGCGACTTCC | CGGGCGCGAC |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_2 | | | | | |
| Prop_A9_3 | | | | | |
| Prop_A9_4 | | | | | |
| Prop_A10_1 | | | | | |
| Prop_A10_3 | | | | | |
| Prop_A10_5 | | | | | |
| Prop_A10_2 | | | | | |
| Prop_A10_4 | | | | | |

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|----------|-------------|-------------|-------------|-------------|-------------|
| | 460 | 470 | 480 | 490 | 500 |
| Kisumu | | | | | |
| | CATGTGGAAC | CCGAACACGC | CCCTGTCCGA | GGACTGTCTG | TACATTAAACG |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |

| | |
|------------|-------------|
| Ben_A7_3 |C..... |
| Ben_A7_5 | ..... |
| Ben_A7_6 | ..... |
| Prop_A5_1 | ..... |
| Prop_A5_4 | ..... |
| Prop_A5_6 | ..... |
| Prop_A8_2 | ..... |
| Prop_A8_3 | ..... |
| Prop_A8_4 | ..... |
| Prop_A9_1 | ..... |
| Prop_A9_2 | ..... |
| Prop_A9_3 |C..... |
| Prop_A9_4 |C..... |
| Prop_A10_1 | ..... |
| Prop_A10_3 |C..... |
| Prop_A10_5 | ..... |
| Prop_A10_2 | ..... |
| Prop_A10_4 |C..... |

| | | | | | |
|------------|------------|------------|-------------|-------------|------------|
| | 510 | 520 | 530 | 540 | 550 |
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| | TGGTGGCACC | GCGACCCCGG | CCCAAGAATG | CGGCCGTTCAT | GCTGTGGATC |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A4_3 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A4_5 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A7_1 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..G.. | ..... | ..... | ..... |
| Ben_A7_6 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A5_1 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A5_4 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A8_4 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A9_1 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A9_2 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A9_3 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A9_4 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A10_1 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A10_3 | ..... | ..G.. |C..... | ..... | ..... |
| Prop_A10_5 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A10_2 | ..... | ..G.. | ..... | ..... | ..... |
| Prop_A10_4 | ..... | ..G.. | ..... | ..... | ..... |

| | | | | | |
|----------|-------------|------------|------------|------------|------------|
| | 560 | 570 | 580 | 590 | 600 |
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| | TTCGGCGGCG | GCTTCTACTC | CGGCACCGCC | ACCCTGGACG | TGTACGACCA |
| Ben_A1_3 |A..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 |A..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 |A..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 |A..... | ..... | ..... | ..... | ..... |

| | | | | | |
|------------|-------------|-------|-------|-------|-------|
| Ben_A4_5 |A..... | ..... | ..... | ..... | ..... |
| Ben_A7_1 |A..... | ..... | ..... | ..... | ..... |
| Ben_A7_2 |A..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 |G..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 |A..... | ..... | ..... | ..... | ..... |
| Ben_A7_6 |A..... | ..... | ..... | ..... | ..... |
| Prop_A5_1 |A..... | ..... | ..... | ..... | ..... |
| Prop_A5_4 |A..... | ..... | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 |A..... | ..... | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_4 |A..... | ..... | ..... | ..... | ..... |
| Prop_A9_1 |A..... | ..... | ..... | ..... | ..... |
| Prop_A9_2 |A..... | ..... | ..... | ..... | ..... |
| Prop_A9_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_4 |A..... | ..... | ..... | ..... | ..... |
| Prop_A10_1 |A..... | ..... | ..... | ..... | ..... |
| Prop_A10_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_5 |A..... | ..... | ..... | ..... | ..... |
| Prop_A10_2 |A..... | ..... | ..... | ..... | ..... |
| Prop_A10_4 |A..... | ..... | ..... | ..... | ..... |

| | | | | | |
|------------|------------|------------|------------|-------------|------------|
| | 610 | 620 | 630 | 640 | 650 |
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| | CCGGGCGCTT | GCGTCGGAGG | AGAACGTGAT | CGTGGTGTCTG | CTGCAGTACC |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_1 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_4 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_5 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_2 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_4 | ..... | ..... | ..... | ..... | ..... |

| | | | | | |
|----------|------------|------------|------------|-------------|------------|
| | 660 | 670 | 680 | 690 | 700 |
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| | GCGTGGCCAG | TCTGGGCTTC | CTGTTTCTCG | GCACCCCGGA | AGCGCCGGGC |
| Ben_A1_3 | ..... | ..... | ..... | .....C..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |

| | | | | | |
|------------|-------|-------|-------|--------|-------|
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | .....C | ..... |
| Ben_A4_3 | ..... | ..... | ..... | .....C | ..... |
| Ben_A4_5 | ..... | ..... | ..... | .....C | ..... |
| Ben_A7_1 | ..... | ..... | ..... | .....C | ..... |
| Ben_A7_2 | ..... | ..... | ..... | .....C | ..... |
| Ben_A7_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_6 | ..... | ..... | ..... | .....C | ..... |
| Prop_A5_1 | ..... | ..... | ..... | .....C | ..... |
| Prop_A5_4 | ..... | ..... | ..... | .....C | ..... |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 | ..... | ..... | ..... | .....C | ..... |
| Prop_A8_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_4 | ..... | ..... | ..... | .....C | ..... |
| Prop_A9_1 | ..... | ..... | ..... | .....C | ..... |
| Prop_A9_2 | ..... | ..... | ..... | .....C | ..... |
| Prop_A9_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A9_4 | ..... | ..... | ..... | .....C | ..... |
| Prop_A10_1 | ..... | ..... | ..... | .....C | ..... |
| Prop_A10_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_5 | ..... | ..... | ..... | .....C | ..... |
| Prop_A10_2 | ..... | ..... | ..... | .....C | ..... |
| Prop_A10_4 | ..... | ..... | ..... | .....C | ..... |

| | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|
| | 710 | 720 | 730 | 740 | 750 |
| Kisumu | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| | .....\|.....\| |
| | AATGCGGGAC | TGTTTCGATCA | GAACCTTGCG | CTACGGTAGG | TGTCTTTGCA |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 | ..... | ..... | ..... | ..... | .....G |
| Ben_A4_3 | ..... | ..... | ..... | ..... | .....G |
| Ben_A4_5 | ..... | ..... | ..... | ..... | .....G |
| Ben_A7_1 | ..... | ..... | ..... | ..... | .....G |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 | ..... | ..... | ..... | ..... | .....G |
| Ben_A7_6 | ..... | ..... | ..... | ..... | .....G |
| Prop_A5_1 | ..... | ..... | ..... | ..... | .....G |
| Prop_A5_4 | ..... | ..... | ..... | ..... | .....G |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 | ..... | ..... | ..... | ..... | .....G |
| Prop_A8_3 | ..... | ..... | ..... | ..... | .....C |
| Prop_A8_4 | ..... | ..... | ..... | ..... | .....C |
| Prop_A9_1 | ..... | ..... | ..... | ..... | .....G |
| Prop_A9_2 | ..... | ..... | ..... | ..... | .....G |
| Prop_A9_3 | ..... | ..... | ..... | ..... | .....G |
| Prop_A9_4 | ..... | ..... | ..... | ..... | .....G |
| Prop_A10_1 | ..... | ..... | ..... | ..... | .....G |
| Prop_A10_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_5 | ..... | ..... | ..... | ..... | .....G |
| Prop_A10_2 | ..... | ..... | ..... | ..... | .....G |
| Prop_A10_4 | ..... | ..... | ..... | ..... | .....G |
| | 760 | 770 | 780 | 790 | 800 |
| | | | | | |

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| Kisumu | TGTGTGAATG | AGGGTATAGT | ATTCTAACGA | GGTGCTCTTC | TTCCCATCAC |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..T.. | ..... | ..... | .....C. |
| Ben_A1_5 | ..... | ..... | ..... | ..... | ..... |
| Ben_A4_1 |TC.. | TA.T..... | ..... | ..... | ..... |
| Ben_A4_3 |TC.. | TA.T..... | ..... | ..... | ..... |
| Ben_A4_5 |TC.. | TA.T..... | ..... | ..... | ..... |
| Ben_A7_1 |TC.. | TA.T..... | ..... | ..... | ..... |
| Ben_A7_2 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A7_5 |TC.. | TA.T..... | ..... | ..... | ..... |
| Ben_A7_6 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A5_1 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A5_4 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A5_6 | ..G..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A8_3 | ..G..... | ..... | ..... | ..... | ..... |
| Prop_A8_4 | ..G..... | ..... | ..... | ..... | ..... |
| Prop_A9_1 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A9_2 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A9_3 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A9_4 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A10_1 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A10_3 | ..... | ..... | .....T.. | ..... | ..... |
| Prop_A10_5 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A10_2 |TC.. | TA.T..... | ..... | ..... | ..... |
| Prop_A10_4 |TC.. | TA.T..... | ..... | ..... | ..... |

| | | | | | |
|------------|------------|------------|------------|-------------|------------|
| | 810 | 820 | 830 | 840 | 850 |
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| Ben_A1_3 | TTCTTGGGAG | TCAGCTGGGT | GCGGGACAAC | ATTCAACCGGT | TCGGTGGCGA |
| Ben_A1_4 | ..... | .....C.. | ..... | ..... | ..... |
| Ben_A1_5 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A4_1 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A4_3 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A4_5 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A7_1 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A7_2 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A7_3 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A7_5 | ..... | ..... | ..... | ..... | .....T.. |
| Ben_A7_6 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A5_1 | ..... | ..... | ..... | ..... | ..... |
| Prop_A5_4 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A5_6 | ..... | ..... | ..... | ..... | ..... |
| Prop_A8_2 |C.. | ..... | ..... | ..... | .....T.. |
| Prop_A8_3 |C.. | ..... | ..... | ..... | ..... |
| Prop_A8_4 |C.. | ..... | ..... | ..... | ..... |
| Prop_A9_1 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A9_2 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A9_3 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A9_4 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A10_1 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A10_3 | ..... | ..... | ..... | ..... | ..... |
| Prop_A10_5 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A10_2 | ..... | ..... | ..... | ..... | .....T.. |
| Prop_A10_4 | ..... | ..... | ..... | ..... | .....T.. |

| | 860 | 870 | 880 | 890 | 900 |
|------------|------------|------------|------------|------------|------------|
| Kisumu | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| | ....\|....\| |
| | TCCGTCGCGT | GTGACACTGT | TCGGCGAGAG | TGCCGGTGCC | GTCTCGGTGT |
| Ben_A1_3 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_4 | ..... | ..... | ..... | ..... | ..... |
| Ben_A1_5 |C | ..... | ..... | ..... | ..... |
| Ben_A4_1 |C | ..... | ..... | ..... | ..... |
| Ben_A4_3 |C | ..... | ..... | ..... | ..... |
| Ben_A4_5 |C | ..... | ..... | ..... | ..... |
| Ben_A7_1 |C | ..... | ..... | ..... | ..... |
| Ben_A7_2 |C | ..... | ..... | ..... | ..... |
| Ben_A7_3 | ..... | ..... | ..... | .....C | ..... |
| Ben_A7_5 |C | ..... | ..... | ..... | ..... |
| Ben_A7_6 |C | ..... | ..... | ..... | ..... |
| Prop_A5_1 | ..... | ..... | ..... | .....C | ..... |
| Prop_A5_4 |C | ..... | ..... | ..... | ..... |
| Prop_A5_6 | ..... | ..... | ..... | .....C | ..... |
| Prop_A8_2 |C | ..... | ..... | ..... | ..... |
| Prop_A8_3 | ..... | ..... | ..... | .....C | ..... |
| Prop_A8_4 | ..... | ..... | ..... | .....C | ..... |
| Prop_A9_1 |C | ..... | ..... | ..... | ..... |
| Prop_A9_2 |C | ..... | ..... | ..... | ..... |
| Prop_A9_3 |C | ..... | ..... | ..... | ..... |
| Prop_A9_4 |C | ..... | ..... | ..... | ..... |
| Prop_A10_1 |C | ..... | ..... | ..... | ..... |
| Prop_A10_3 | ..... | ..... | ..... | .....C | ..... |
| Prop_A10_5 |C | ..... | ..... | ..... | ..... |
| Prop_A10_2 |C | ..... | ..... | ..... | ..... |
| Prop_A10_4 |C | ..... | ..... | ..... | ..... |

| | 910 | 920 |
|------------|------------|------------------|
| Kisumu | ....\|....\| | ....\| |
| | CGCTGCATCT | GCTGTCCGCC CTATC |
| Ben_A1_3 | | |
| Ben_A1_4 | | |
| Ben_A1_5 | | |
| Ben_A4_1 | | |
| Ben_A4_3 | | |
| Ben_A4_5 | | |
| Ben_A7_1 | | |
| Ben_A7_2 | | |
| Ben_A7_3 | | |
| Ben_A7_5 | | |
| Ben_A7_6 | | |
| Prop_A5_1 | | |
| Prop_A5_4 | | |
| Prop_A5_6 | | |
| Prop_A8_2 | | |
| Prop_A8_3 | | |
| Prop_A8_4 | | |
| Prop_A9_1 | | |
| Prop_A9_2 | | |
| Prop_A9_3 | | |
| Prop_A9_4 | | |
| Prop_A10_1 | | |
| Prop_A10_3 | | |

Prop_A10_5
Prop_A10_2
Prop_A10_4