

Additional file 1: Alignment of *Ace-1* sequences from direct sequencing of field collected adults mosquitoes (F0) and of dead and alive mosquitoes 24h after exposure to bendiocarb and from F0 mosquitoes. These sequences were compared with two others collected from NCBI database and described from resistant mosquitoes from Ghana and Togo in West Africa.

	10	20	30	40	50

KM875636_TOGO)	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
KP165343_GHANA	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_1	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_2	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_3	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_4	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_5	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_6	AACGCACTTT	ACCCCCACRC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Alive_7	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAAYGA
Alive_8	AACGCACTTT	ACMCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_1	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_2	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_3	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_4	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_5	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_6	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_7	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Dead_8	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_1	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_2	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_3	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_4	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_5	AACGCACTTT	ACMCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_6	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_7	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_8	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_9	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_10	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_11	AACGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
Fo_12	AAYGCACTTT	ACCCCCACGC	ACACGCACCG	GCAGACGCGA	ACGACAACGA
	60	70	80	90	100

KM875636_TOGO)	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
KP165343_GHANA	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_1	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_2	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_3	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_4	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_5	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_6	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_7	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Alive_8	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_1	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_2	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_3	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_4	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_5	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_6	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_7	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Dead_8	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_1	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_2	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG

Fo_3	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_4	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_5	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_6	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_7	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_8	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_9	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_10	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_11	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG
Fo_12	TCCGCTGGTG	GTCAACACGG	ATAAGGGGCG	CATCCGCGGC	ATTACGGTCG

	110	120	130	140	150

KM875636_TOGO)	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
KP165343_GHANA	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Alive_1	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Alive_2	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Alive_3	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Alive_4	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Alive_5	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Alive_6	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Alive_7	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Alive_8	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Dead_1	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Dead_2	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Dead_3	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Dead_4	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCG
Dead_5	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCG
Dead_6	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Dead_7	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCG
Dead_8	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_1	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_2	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_3	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_4	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_5	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Fo_6	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_7	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGSAT	TCCCTACGCS
Fo_8	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCG
Fo_9	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_10	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC
Fo_11	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCS
Fo_12	ATGCGCCAG	CGGCAAGAAG	GTGGACGTGT	GGCTCGGCAT	TCCCTACGCC

	160	170	180	190	200

KM875636_TOGO)	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
KP165343_GHANA	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_1	CAGCKCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_2	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_3	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_4	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_5	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_6	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_7	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Alive_8	CAGCKCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_1	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_2	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_3	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_4	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_5	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_6	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA

Dead_7	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Dead_8	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_1	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_2	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_3	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_4	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_5	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_6	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_7	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_8	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_9	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_10	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_11	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA
Fo_12	CAGCCGCCGG	TCGGGCCGCT	ACGGTTCCGT	CATCCGCGGC	CGGCCGAAAA

	210	220	230	240	250

KM875636_TOGO)	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
KP165343_GHANA	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_1	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_2	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_3	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_4	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_5	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_6	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_7	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Alive_8	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_1	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_2	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_3	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_4	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_5	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_6	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_7	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Dead_8	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_1	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_2	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_3	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_4	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_5	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_6	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_7	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_8	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_9	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_10	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCMAACAGC	TGCGTGCAGA
Fo_11	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA
Fo_12	GTGGACCGGC	GTGCTGAACA	CGACCACACC	GCCCAACAGC	TGCGTGCAGA

	260	270	280	290	300

KM875636_TOGO)	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
KP165343_GHANA	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_1	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_2	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_3	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_4	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_5	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_6	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_7	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Alive_8	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_1	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_2	TCGTGGACAC	CGTGTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG

Dead_3	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_4	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_5	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_6	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_7	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Dead_8	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_1	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_2	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_3	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_4	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_5	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_6	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_7	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_8	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_9	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_10	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_11	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG
Fo_12	TCGTGGACAC	CGTGTTTCGGC	GACTTCCCGG	GCGCGACCAT	GTGGAACCCG

	310	320	330	340	350

KM875636_TOGO)	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
KP165343_GHANA	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_1	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_2	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_3	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_4	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_5	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_6	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_7	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Alive_8	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_1	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_2	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_3	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_4	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_5	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_6	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_7	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Dead_8	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_1	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_2	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_3	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_4	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_5	AACACGCCCC	TSTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_6	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_7	AACACGCCCC	TSTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_8	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_9	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_10	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_11	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG
Fo_12	AACACGCCCC	TGTCCGAGGA	CTGTCTGTAC	ATTAACGTGG	TGGCACC CG

	360	370	380	390	400

KM875636_TOGO)	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
KP165343_GHANA	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
Alive_1	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
Alive_2	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
Alive_3	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
Alive_4	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
Alive_5	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT
Alive_6	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCAGCT

Alive_7	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC R GST
Alive_8	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_1	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_2	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_3	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_4	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_5	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_6	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_7	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Dead_8	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Fo_1	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_2	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_3	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_4	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_5	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Fo_6	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_7	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Fo_8	ACCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGCGGCT
Fo_9	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_10	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC R GCT
Fo_11	RCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC A GCT
Fo_12	GCCCCGGCCC	AAGAATGCGG	CCGTCATGCT	GTGGATCTTC	GGCGGC R GCT

	410	420	430	440	450
KM875636_TOGO)
KP165343_GHANA	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_1	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_2	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_3	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_4	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_5	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_6	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_7	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Alive_8	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_1	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_2	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_3	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_4	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_5	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_6	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_7	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Dead_8	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_1	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_2	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_3	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_4	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_5	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCR
Fo_6	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_7	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_8	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_9	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_10	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_11	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG
Fo_12	TCTACTCCGG	CACCGCCACC	CTGGACGTGT	ACGACCACCG	GGCGCTTGCG

	460	470	480	490	500
KM875636_TOGO)
KP165343_GHANA	TCGGAGGAGA	ACGTGATCGT	GGTGTCGCTG	CAGTACCGCG	TGGCCAGTCT
Alive_1	TCGGAGGAGA	ACGTGATCGT	GGTGTCGCTG	CAGTACCGCG	TGGCCAGYCT
Alive_2	TCGGAGGAGA	ACGTGATCGT	GGTGTCGCTG	CAGTACCGCG	TGGCCAGTCT

KM875636_TOGO)	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
KP165343_GHANA	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Alive_1	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCRTGT	GTGWMTGWRG
Alive_2	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Alive_3	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Alive_4	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCgTGT	GTGTCTGTAG
Alive_5	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Alive_6	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGA
Alive_7	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCRTGT	GTGWMTGTAG
Alive_8	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTYTGCATGK	GTGAATGAGG
Dead_1	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGG
Dead_2	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGR
Dead_3	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGG
Dead_4	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGG
Dead_5	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGG
Dead_6	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGR
Dead_7	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGG
Dead_8	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGA
Fo_1	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Fo_2	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Fo_3	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Fo_4	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Fo_5	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTYTGCATGK	GTGAATGAGG
Fo_6	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Fo_7	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCATGT	GTGAATGAGG
Fo_8	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CWTTGCATGT	GTGAATGAGG
Fo_9	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCRTGT	GTGMTGTAG
Fo_10	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCRTGT	GTGWMTGWRG
Fo_11	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCGTGT	GTGTCTGTAG
Fo_12	TCGATCAGAA	CCTTGCGCTA	CGGTAGGTGT	CTTTGCRTGT	GTGWMTGWRG

	610	620	630	640	650
KM875636_TOGO)
KP165343_GHANA	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_1	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_2	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_3	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_4	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_5	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_6	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_7	KTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Alive_8	STWTAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TYGGGAGTCA
Dead_1	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_2	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_3	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_4	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_5	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_6	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_7	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Dead_8	RTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_1	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_2	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_3	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_4	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_5	STATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TYGGGAGTCA
Fo_6	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_7	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_8	GTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_9	KTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_10	KTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA
Fo_11	TTATAGTATT	CTAACGAGGT	GCTCTTCTTC	CCATCACTTC	TTGGGAGTCA

Fo_12

YTATAGTATT CTAACGAGGT GCTCTTCTTC CCATCACTTC TTGGGAGTCA

	660	670	680	690	700

KM875636_TOGO)	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
KP165343_GHANA	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Alive_1	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Alive_2	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Alive_3	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Alive_4	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGYGTG
Alive_5	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Alive_6	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Alive_7	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Alive_8	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGTGTG
Dead_1	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_2	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_3	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_4	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_5	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_6	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_7	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Dead_8	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Fo_1	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_2	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_3	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_4	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_5	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGTGTG
Fo_6	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_7	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGCGATCC	GTCGCGTGTG
Fo_8	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGTGTG
Fo_9	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_10	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_11	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG
Fo_12	GCTGGGTGCG	GGACAACATT	CACCGGTTTCG	GTGGTGATCC	GTCGCGCGTG

KM875636_TOGO)	ACACT
KP165343_GHANA	ACACT
Alive_1	ACACT
Alive_2	ACACT
Alive_3	ACACT
Alive_4	ACACT
Alive_5	ACACT
Alive_6	ACACT
Alive_7	ACACT
Alive_8	ACACT
Dead_1	ACACT
Dead_2	ACACT
Dead_3	ACACT
Dead_4	ACACT
Dead_5	ACACT
Dead_6	ACACT
Dead_7	ACACT
Dead_8	ACACT
Fo_1	ACAYT
Fo_2	ACACT
Fo_3	ACACT
Fo_4	ACACT
Fo_5	ACACT
Fo_6	ACACT
Fo_7	ACACT

Fo_8	ACACT
Fo_9	ACACT
Fo_10	ACACT
Fo_11	ACACT
Fo_12	ACACT