

Appendix 3: A representative alignment of the ITS1 region for the *Belvosia* Woodley04 species complex using three individuals per species. W4A = *B. Woodley04A*, W4B = *B. Woodley04B*, W4C = *B. Woodley04C*, W4D = *B. Woodley04D*.

	10	20	30	40	50	60
HCIC621-05-W4A	-----	-----	-----CGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC644-05-W4A	-----	----CCTGAG	TGTAGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC658-05-W4A	-----	-----	-----	-----	-----	-----
HCIC246-05-W4B	--TCACTGTA	ACGCCCTGAG	TGTTGCGGAT	GTTTCGCAGA	AGTAGACCGA	ACTTGATTAT
HCIC252-05-W4B	--TCACTGTA	ACGCCCTGAG	TGTTGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC608-05-W4B	-----CTGTA	ACGCCCTGAG	TGTTGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC554-05-W4D	-----	-----	-----	-----	-----	-----
HCIC539-05-W4D	-----	-----TGAG	TGTTGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC540-05-W4D	-----	-----TGAG	TGTTGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC536-05-W4C	-TCACANGTA	ACGCCCTGAG	TGTTGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC533-05-W4C	GATCACTGTA	ACGCCCTGAG	TGTTGCGGAT	GTTTCGCAGA	AGTTGACCGA	ACTTGATTAT
HCIC535-05-W4C	--TCACTGTA	ACGCCCTGAG	TGTTGCGGAT	GTTTCGCAGA	ANTTGACCGA	ACTTGATTAT

	70	80	90	100	110	120
HCIC621-05-W4A	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCAT-AA
HCIC644-05-W4A	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCAT-AA
HCIC658-05-W4A	-----	-----	-----	-----	-----	-----
HCIC246-05-W4B	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCATTAA
HCIC252-05-W4B	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCATTAA
HCIC608-05-W4B	TTNAAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCANTNA
HCIC554-05-W4D	-----	-----	-----	-----	-----	-----
HCIC539-05-W4D	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCAT-AA
HCIC540-05-W4D	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CCGTAGGTGA	ACCTGCGGAA	GGATCATTAA
HCIC536-05-W4C	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CC-TAGGTGA	ACCTGCGGAA	GGATCATTAA
HCIC533-05-W4C	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CC-TAGGTGA	ACCTGCGGAA	GGATCATTAA
HCIC535-05-W4C	TTAGAGGAAG	TAAAAGTCGT	AACAAGGTTT	CC-TAGGTGA	ACCTGCGGAA	GGATCATTAA

	130	140	150	160	170	180
HCIC621-05-W4A	AGTTCTCCTT	TCAAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC644-05-W4A	AGTTCTCCTT	TCAAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC658-05-W4A	-----	-----ATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC246-05-W4B	AGTTATCC-T	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC252-05-W4B	AGTTATCC-T	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC608-05-W4B	AGTTATCC-T	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC554-05-W4D	-----	-----	-----	-----	-----	-----
HCIC539-05-W4D	AGTTCTCAT	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC540-05-W4D	AGTTCTCAT	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC536-05-W4C	AGTTCTCC-T	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC533-05-W4C	AGTTCTCC-T	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT
HCIC535-05-W4C	AGTTCTCC-T	TACAGTTATA	AACAAAAACA	CAATATATAA	AATACTTATA	TTGTAAAATT

	190	200	210	220	230	240
HCIC621-05-W4A	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	ATGTTTATTA	TTGTAT--CG
HCIC644-05-W4A	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	ATGTTTATTA	TTGTAT--CG
HCIC658-05-W4A	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	ATGTTTATTA	TTGTAT--CG
HCIC246-05-W4B	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	ATGTTTATTA	TTGTAT--CG
HCIC252-05-W4B	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	ATGTTTATTA	TTGTAT--CG
HCIC608-05-W4B	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	ATGTTTATTA	TTGTAT--CG
HCIC554-05-W4D	--GGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	-TGTTTATTA	TTGTAT-CCG
HCIC539-05-W4D	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	-TGTTTATTA	TTGTAT-CCG
HCIC540-05-W4D	ATGGCAAATG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	-TGTTTATTA	TTGTAT-CCG
HCIC536-05-W4C	ATGGCAAAAAG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	-TGTTTATTA	TTGTATATCG
HCIC533-05-W4C	ATGGCAAAAAG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	-TGTTTATTA	TTGTATATCG
HCIC535-05-W4C	ATGGCAAAAAG	CCAAAAAGAA	ACAAAATAAC	AATAATAAAA	-TGTTTATTA	TTGTATATCG

	250	260	270	280	290	300
HCIC621-05-W4A	CCTCCTAGGC	AAAAAAGTAT	AGTAT--AAA	GTGTTT-GTG	TGT--GTTAC	ACATTACACA
HCIC644-05-W4A	CCTCCTAGGC	AAAAAAGTAT	AGTAT--AAA	GTGTTT-GTG	TGT--GTTAC	ACATTACACA
HCIC658-05-W4A	CCTCCTAGGC	AAAAAAGTAT	AGTAT--AAA	GTGTTT-GTG	TGT--GTTAC	ACATTACACA
HCIC246-05-W4B	CCTCCTAGGC	AAAAAAGTAT	AGTATATAAA	GTGTTT-GTG	TGTGTGTTAC	ACCTTACACA
HCIC252-05-W4B	CCTCCTAGGC	AAAAAAGTAT	AGTATATAAA	GTGTTT-GTG	TGTGTGTTAC	ACCTTACACA
HCIC608-05-W4B	CCTCCTAGGC	AAAAAAGTAT	AGTATATAAA	GTGTTT-GTG	TGTGTGTTAC	ACCTTACACA
HCIC554-05-W4D	CCTCCTAGGC	AAAAAAGTAT	AGTATA--AA	GTGTTTTGTG	TGT--GTTAC	ACATTACACA
HCIC539-05-W4D	CCTCCTAGGC	AAAAAAGTAT	AGTATA--AA	GTGTTTTGTG	TGT--GTTAC	ACATTACACA
HCIC540-05-W4D	CCTCCTAGGC	AAAAAAGTAT	AGTATA--AA	GTGTTTTGTG	TGT--GTTAC	ACATTACACA
HCIC536-05-W4C	CCTCCTAGGC	AAAAA-GTAN	A-TATACAAT	ACTTCTT---	-ATATTGTAA	AATTATGGCA
HCIC533-05-W4C	CCTCCTAGGC	AAAAA-GTAT	A-TATACAAT	ACTTCTT---	-ATATTGTAA	AATTATGGCA
HCIC535-05-W4C	CCTCCTAGGC	AAAAA-GTAT	A-TATACAAT	ACTTCTT---	-ATATTGTAA	AATTATGGCA

	310	320	330	340	350	360
HCIC621-05-W4A	AA-----	-----	-----A	ATTGACTTAT	TTATATAAAA	TTTGTAAAAA
HCIC644-05-W4A	AA-----	-----	-----A	ATTGACTTAT	TTATATAAAA	TTTGTAAAAA
HCIC658-05-W4A	AA-----	-----	-----A	ATTGACTTAT	TTATATAAAA	TTTGTAAAAA
HCIC246-05-W4B	AA-----	-----	-----A	AATTACTTAT	TTATCTAAAA	TTTGTAAAAA
HCIC252-05-W4B	AA-----	-----	-----A	AATTACTTAT	TTATCTAAAA	TTTGTAAAAA
HCIC608-05-W4B	AA-----	-----	-----A	AATTACTTAT	TTATCTAAAA	TTTGTAAAAA
HCIC554-05-W4D	AA-----	-----	-----A	AATTCCTTAT	TTATATAAAA	TTTGTAAAAA
HCIC539-05-W4D	AA-----	-----	-----A	AATTCCTTAT	TTATATAAAA	TTTGTAAAAA
HCIC540-05-W4D	AA-----	-----	-----A	AATTCCTTAT	TTATATAAAA	TTTGTAAAAA
HCIC536-05-W4C	AAAAGAAACA	AAATAACAAT	AATAAAATGT	TTATTATTGT	ATCGCCTCCT	AGGCAAAAAA
HCIC533-05-W4C	AAAAGAAACA	AAATAACAAT	AATAAAATGT	TTATTATTGT	ATCGCCTCCT	AGGCAAAAAA
HCIC535-05-W4C	AAAAGAAACA	AAATAACAAT	AATAAAATGT	TTATTATTGT	ATCGCCTCCT	AGGCAAAAAA

	370	380	390	400	410	420
HCIC621-05-W4A	CTGAAATTGT	GTGGAC---G	TTATACAAAA	TTA-----AT	TTGTATAGAA	AATGTCTAAA
HCIC644-05-W4A	CTGAAATTGT	GTGGAC---G	TTATACNAAA	TTA-----AT	TTGTATAGAA	AATGTCTAAA
HCIC658-05-W4A	CTGAAATTGT	GTGGAC---G	TTATACAAAA	TTA-----AT	TTGTATAGAA	AATGTCTAAA
HCIC246-05-W4B	CTGAAATTGT	GTGGACGTTG	TTATACAAAA	TTA-----AT	TTGTATACAA	AATGTCTAAA
HCIC252-05-W4B	CTGAAATTGT	GTGGACGTTG	TTATACAAAA	TTA-----AT	TTGTATACAA	AATGTCTAAA
HCIC608-05-W4B	CTGAAATTGT	GTGGACGTTG	TTATACAAAA	TTA-----AT	TTGTATACAA	AATGTCTAAA
HCIC554-05-W4D	TTGAAATTGT	GTGGAC-ATA	TTATATCAAA	TTA-----AT	TTGTATACAA	AATGTCTAAA
HCIC539-05-W4D	TTGAAATTGT	GTGGAC-AT-	-TATATCAAA	TTA-----AT	TTGTNTACAA	AATGTCTAAA
HCIC540-05-W4D	TTGAAATTGT	GTGGAC-AT-	-TATATCAAA	TTA-----AT	TTGTATACAA	AATGTCTAAA
HCIC536-05-W4C	GTATATATAA	AATAC--TTA	TATTGTAAAA	TTATGGCAAA	TGGCAAAAAG	AAACAAAATA
HCIC533-05-W4C	GTATATATAA	AATAC--TTA	TATTGTAAAA	TTATGGCAAA	TGGCAAAAAG	AAACAAAATA
HCIC535-05-W4C	GTATATATAA	AATAC--TTA	TATTGTAAAA	TTATGGCAAA	TGGCAAAAAG	AAACAAAATA

	430	440	450	460	470	480
HCIC621-05-W4A	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTTTTATA
HCIC644-05-W4A	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTTTTATA
HCIC658-05-W4A	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTTTTATA
HCIC246-05-W4B	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC252-05-W4B	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC608-05-W4B	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC554-05-W4D	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC539-05-W4D	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC540-05-W4D	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC536-05-W4C	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC533-05-W4C	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA
HCIC535-05-W4C	AATTTGAAAT	ACATAAAAATT	ATAGTTGTAC	TTGTATAAAA	TTGAAAAGTA	ATTTT--ATA

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          490          500          510          520          530          540
HCIC621-05-W4A TAAGTCAATC ATTGTTTCGTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC644-05-W4A TAAGTCAATC ATTGTTTCGTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC658-05-W4A TAAGTCAATC ATTGTTTCGTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC246-05-W4B TAAGTCAATC ATTGTTCTTT -TTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC252-05-W4B TAAGTCAATC ATTGTTCTTT -TTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC608-05-W4B TAAGTCAATC ATTGTTCTTT -TTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC554-05-W4D TAAGTCAATC ATTGTTCTTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC539-05-W4D TAAGTCAATC ATTGTTCTTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC540-05-W4D TAAGTCAATC ATTGTTCTTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC536-05-W4C -AAGTCAATC ATTGTTCTTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC533-05-W4C -AAGTCAATC ATTGTTCTTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
HCIC535-05-W4C -AAGTCAATC ATTGTTCTTT TTTTAAGAAC TTGAGACATT CGCAACAAAA ATTTTATGTT
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          550          560          570          580          590          600
HCIC621-05-W4A TTAGTTATAA AAGAGAAGAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC644-05-W4A TTAGTTATAA AAGAGAAGAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC658-05-W4A TTAGTTATAA AAGAGAAGAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC246-05-W4B TTAATTATAA AAGAGAAGAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC252-05-W4B TTAATTATAA AAGAGAAGAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC608-05-W4B TTAATTATAA AAGAGAAGAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC554-05-W4D TTAATTATAA AAGAGAATAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC539-05-W4D TTAATTATAA AAGAGAATAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC540-05-W4D TTAATTATAA AAGAGAATAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC536-05-W4C TTAATTATAA AAGAGAATAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC533-05-W4C TTAATTATAA AAGAGAATAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
HCIC535-05-W4C TTAATTATAA AAGAGAATAA TAATAAGCAA AAATTATTGA AGGAATTGAT ATATGCCAAT
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          610          620          630          640          650          660
HCIC621-05-W4A TTGAAACTTT TTGGTGTATT TTTGATTTCT -----
HCIC644-05-W4A TTGAAACTTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATNA AATGCTATTG
HCIC658-05-W4A TTGAAAC--- -----
HCIC246-05-W4B TTGAAAATTG TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AATGCTATTG
HCIC252-05-W4B TTGAAAATTG TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AATGCTATTG
HCIC608-05-W4B TTGAAAATTG TTGGTGTATT TTTGATTTCT TTCNNTAAAT ATATATATGA NATGCTANTG
HCIC554-05-W4D TTGAAAATTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA NGTGCTATTG
HCIC539-05-W4D TTGAAAATTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AGTGCTATTG
HCIC540-05-W4D TTGAAAATTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AGTGCTATTG
HCIC536-05-W4C TTGAAAATTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AATGCTATTG
HCIC533-05-W4C TTGAAAATTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AATGCTATNG
HCIC535-05-W4C TTGAAAATTT TTGGTGTATT TTTGATTTCT TTCAATAAAT ATATATATGA AATGCTATTG
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          670          680          690          700          710          720
HCIC621-05-W4A -----
HCIC644-05-W4A AAAATAAAAA TTATATCNCT CTATACGGTG GATCACTTGG CTCATGGGTC GATGAAGAAC
HCIC658-05-W4A -----
HCIC246-05-W4B AAAATAAAAA TTATATCACT CTAA-----
HCIC252-05-W4B AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC GATGAAGAAC
HCIC608-05-W4B AAAATAAAAA TTATATCACT CT-----
HCIC554-05-W4D AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC GA-----
HCIC539-05-W4D AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC G-----
HCIC540-05-W4D AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC GATGAA----
HCIC536-05-W4C AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC GATGAAGAAC
HCIC533-05-W4C AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC GATGAAGAAC
HCIC535-05-W4C AAAATAAAAA TTATATCACT CTAAGCGGTG GATCACTTGG CTCATGGGTC GATGAAGAAC
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HCIC621-05-W4A	-----
HCIC644-05-W4A	GCA-----
HCIC658-05-W4A	-----
HCIC246-05-W4B	-----
HCIC252-05-W4B	GCAGCAAA
HCIC608-05-W4B	-----
HCIC554-05-W4D	-----
HCIC539-05-W4D	-----
HCIC540-05-W4D	-----
HCIC536-05-W4C	GCAGCAAA
HCIC533-05-W4C	GCAGCAAA
HCIC535-05-W4C	GCAGCAAA