

Table S2 Primers used for PCR and sequencing

Target gene	Primer name	Sequence (5' to 3')	Purpose
CG5924 (Twinkle)	CG5924 left	GCATCGTAGTGCAACCAAAA	Q-RT-PCR
	CG5924 right	CCAAAGCGGTTCTAGTCAGC	
mtTFB2	mtTFB2 left	CAGGATCTACCGCTCTCTG	Q-RT-PCR
	mtTFB2 right	AGATGGGTGTTACGGACTCG	
tamas (Polg)	tamas left	AATCTTCCAGGCGATTGA	Q-RT-PCR
	tamas right	CAAAGGGCAAGCGAGTGTA	
Tfam	Tfam left	GGCTCAGGTGGATCGATAAG	Q-RT-PCR
	Tfam right	GAGTGGCACCAAAAGACCAC	
mTTF	mTTF left	AGTTCAGAGCACCCACCACT	Q-RT-PCR
	mTTF right	ACTGCAGCTAGAGGGCGTTA	
mTerf3	mTerf3 left	CGTCCCCGAGTCTAAATTC	Q-RT-PCR
	mTerf3 right	CGTCCCCGAGTCTAAATTC	
CG8798 (Lon)	CG8798 left	GTTCAGTGGCCTCTCCAG	Q-RT-PCR
	CG8798 right	AAAGTACCGCGAAAAGCTGA	
belphegor	Belphegor-F	GCCTTTCGCGTTGTACT	Q-RT-PCR
	Belphegor-R	TTCGAACACGTCTTCCG	
Ets97D	Delg-F	TGATGGATTCATGGATGACG	Q-RT-PCR
	Delg-R	AGAACATGTCGGCCAATTC	
Spargel	Sparg-F	CCTCGACTACATTGGTGCT	Q-RT-PCR
	Sparg-R	AGACGTGCCTCTGTCGTTC	

LSU rRNA	16S-L	TGGCCGCAGTATTTGACTG	Q-RT-PCR
	16S-R	TCGTCCAACCATTCAATTCCA	
SSU rRNA	12S-L	AAAAATTGGCGGTATTTAGTCT	Q-RT-PCR
	12S-R	AAGGTCCATCGTGGATTATCG	
RpL32	Rp49-f	AGCATAACAGGCCAAGATCGTGA	Q-RT-PCR
	Rp49-r	CACGTTGTGCACCAGGAACCTTCTT	
mtDNA	DsmtD1s	GTTTCTGCATTCAATTGACTGATTATA	PCR of coding region (CR) fragment 1
	DsmtD1as	TTTGACATTGAAGATGTTATGGAGATTA	
	DsmtD2s	GAGAAGGAACATACCAAGGATTACATAC	PCR of coding region (CR) fragment 2
	DsmtD2as	GAGTTAAAGTGGCATTATCACACAGCAA	
	DsmtD3s	TCCGATTAGAAACAAAACAAAATAGCCC	PCR of coding region (CR) fragment 3
	DsmtD3as	AAAGTATTGACTAAATTGGTGCAGCAG	
	DsmtD4s	ATCTTACCTTAATAATAAGAGCGACGGG	PCR of NCR containing fragment
	DsmtD4as	TTAGGAAATC AAAAATGGAA AGGAGCGG	
	Dm189F	AGCTACTGGGTTCATACCCC	Sequencing of CR fragment 1
	Dm710F	GGTTATTATTGGAGCTATTGGAGG	Sequencing of CR fragment 1
	Dm994R	GGAGGTAATCCTCTTAATGATAA	Sequencing of CR fragment 1
	Dm1274F	GTTAATAAAACTAATAACCTTCAAAGC	Sequencing of CR fragment 1
	Dm1480R	GTCGCGATTATTGATTAAGTG	Sequencing of CR fragment 1
	Dm1777R	GTCAAAATCTTATATTATTCTCGTG	Sequencing of CR fragment 1
	Dm1825F	AATGGAGCTGGAACAGGATG	Sequencing of CR fragment 1
	Dm2079R	TCCTGCTAGTACTGGAAAGTG	Sequencing of CR fragment 1
	Dm2371F	CGAGCTTATTTACCTCAGC	Sequencing of CR fragment 1
	Dm2659R	GGTATCAGTGAATAAACCTGC	Sequencing of CR fragment 1
	Dm2896F	GTATCACACGACAAGTAATTACC	Sequencing of CR fragment 1
	Dm3125R	GAGAAGCTCTATCTGTAAACC	Sequencing of CR fragment 1

Dm3277F	AACTATTTACCAGCAATTATTTACT	Sequencing of CR fragment 1
Dm3524R	AGTTTATAGGTAAAACACTCGG	Sequencing of CR fragment 1
Dm3778F	CTGAAAGCAAGTACTGGTCTC	Sequencing of CR fragment 1
Dm3780R	CAGTCATCTAATGAAGAGTTATTCTA	Sequencing of CR fragment 1
Dm4100R	AGCTAAGGGGTCGAATACAG	Sequencing of CR fragment 1
Dm4244F	AGGACCACATCAGGTCTAAATGG	Sequencing of CR fragment 1
Dm4467R	CGGGTGTCCTTGAGGAAC	Sequencing of CR fragment 1
Dm4743F	CACACTCAAATCACCCCTTCC	Sequencing of CR fragment 1
Dm5064R	GCGGGTGATAAACTCTGTG	Sequencing of CR fragment 1
Dm5289F	CTCCATTACTATTGCAGACTC	Sequencing of CR fragment 1
Dm5521R	TCCTCCTCATCAGTAAATTGTG	Sequencing of CR fragment 1
Dm5740F	CCAAAATCTTCATCTCGATTACC	Sequencing of CR fragment 1
Dm6074R	CAATCAATCGCTTCATATTCA	Sequencing of CR fragment 1
Dm5314F	ACTGTAACCTGAGCCCACCA	Sequencing of CR fragment 2
Dm6005F	TTGATTGCAATTAGTTTCGACCT	Sequencing of CR fragment 2
Dm6195R	CATTAACAGTGATACGCCCTC	Sequencing of CR fragment 2
Dm6801F	AAATCAATCAATTAAATTCTACCTC	Sequencing of CR fragment 2
Dm6928R	CGGTGATTAAATTGCGGTAG	Sequencing of CR fragment 2
Dm7191F	GCCCCAGCACATAAACAA	Sequencing of CR fragment 2
Dm7378R	ATTAACAATATTAGCTGGATTAGG	Sequencing of CR fragment 2
Dm7771F	AAACAAGTCCTAACCATCTCACC	Sequencing of CR fragment 2
Dm8181R	AATTGTGGTGTAGTGTATGAAAA	Sequencing of CR fragment 2
Dm8740F	TGAGCAACAGATGAATAAGCAA	Sequencing of CR fragment 2
Dm8762R	TTGCTTATTCTCTGGCTCA	Sequencing of CR fragment 2
Dm9363F	AATCCATAAGATAATATCACAACCT	Sequencing of CR fragment 2
Dm9623R	ATGTGAAGGGCCTAGGTT	Sequencing of CR fragment 2

Dm9888R	ATAATCTTATTTTGATTACAAGACC	Sequencing of CR fragment 2
Dm10196R	TCATTAGAGGCTAAAGATGTTAC	Sequencing of CR fragment 2
Dm10525R	TGGGAATTCGTAAGGTTATT	Sequencing of CR fragment 2
Dm9858F	CATTGGTCTTGTAAATCAAAAATAAG	Sequencing of CR fragment 3
Dm10196R	TCATTAGAGGCTAAAGATGTTAC	Sequencing of CR fragment 3
Dm10465F	TTTAAAGGACCTATTCGAAATAATTC	Sequencing of CR fragment 3
Dm10725R	ATAATTACGTCTCGACAAATATG	Sequencing of CR fragment 3
Dm10950F	ATACGCTATCCCTACTTAGG	Sequencing of CR fragment 3
Dm11258R	GGGTCTCCAAATAAATTGGTC	Sequencing of CR fragment 3
Dm11425F	TTAAGAAAATTCCGAGGGATT	Sequencing of CR fragment 3
Dm11845R	GGAACTTTACCTCGATTTCG	Sequencing of CR fragment 3
Dm12075F	GCTAATGAAATAGATACTCAAAC	Sequencing of CR fragment 3
Dm12244R	GCTGTGGCTCAGACTATTTC	Sequencing of CR fragment 3
Dm12492F	GCATCACAAAAAGGTTGAGG	Sequencing of CR fragment 3
Dm12584R	TTTATTAGAACGAAAAGTTTAGGATA	Sequencing of CR fragment 3
Dm12734R	AACTATTGGCAGATTAGTGC	Sequencing of CR fragment 3
Dm12976F	CGCTGTTATCCCTAAAGTAAC	Sequencing of CR fragment 3
Dm13172R	AGACGAGAACGCCCTATAAATC	Sequencing of CR fragment 3
Dm13390F	GGCGAATATTATTTGCCG	Sequencing of CR fragment 3
Dm13661R	ATAATTAAATGTTTATGGGATAAGC	Sequencing of CR fragment 3
Dm13852F	TATTAATAAACACTGATAACACAAGGT	Sequencing of CR fragment 3
Dm14152R	CTGGAAAGTGTATCTAGAATGAC	Sequencing of CR fragment 3
Dm14332F	AATATAAGCTACACCTGATCTG	Sequencing of CR fragment 3
Dm14366R	AAAAATTATCATCAGATCAAGGTGAG	Sequencing of CR fragment 3
Dm14502R	CGGTATTTAGTCTATCTAGAGG	Sequencing of CR fragment 3
Dm14428F	TGATTACAAATTAGTAAGGTCCATCG	PCR and sequencing of 'left' end of

		NCR and of adjacent CR segment
Dm14570F	AGGGTATCTAATCCTAGTT	Sequencing of 'left' end of NCR and of adjacent CR segment
Dm14721F	AATGGTATAACCGCGACTGC	Sequencing of 'left' end of NCR and of adjacent CR segment; PCR of NCR repeat array I
Dm14787R	CCAAATTGGTGCCAGCAGTCGCGG	Sequencing of 'left' end of NCR and of adjacent CR segment
Dm15285F	AAAAAAATTATAGATTAATTCTTTAAATGAC	Sequencing of 'left' end of NCR and start of repeat array I
Dm15578F	CGAATAATAATATAATAAATAATTATTTAACACTAAATCTG	PCR of NCR repeat arrays I and II and region between them
Dm17295R	GAATAGATTTATTAAT	PCR of NCR repeat array I; sequencing of region between repeat arrays I and II
Dm17556F	GTATTATTTATAAAAAATATTATATAATAAAAATCATG	PCR and sequencing of NCR repeat array II

Dm17556R	CATGATTTATTATATAAATATTTTATAAAAATAATAC	PCR of NCR repeat array I; PCR and sequencing of region between repeat arrays I and II
Dm17717F	ACTATATACTAATTATAAAATTAATAG	PCR and sequencing of NCR repeat array II
Dm17833R	GAGAATATAAAATTTTATAAATTATATC	PCR and sequencing of NCR repeat array II and region between repeat arrays I and II
Dm18026R	ATAATACATTAAGAAATTTAAAAAATTATATT	PCR and sequencing of NCR repeat array II
Dm18933F	AAAATTCTAAATGTATTATTAATAAAAAATTACTTTAA	PCR of repeat array II, 'right' end of NCR and adjacent CR segment; sequencing of NCR repeat array II
Dm31R	CATGATTTACCTATC	Sequencing of NCR repeat array II and 'right' end of NCR

	Dm225R	TATAACCTTATAAATGGGTATGAACCCAGTAG	PCR of whole NCR and of repeat array II Sequencing of NCR repeat array II, 'right' end of NCR and adjacent CR segment
Wolbachia 16S rRNA	w-16SF	TTGTAGCCTGCTATGGTATACT	PCR of <i>Wolbachia</i> genomic DNA for detection assay
	w-16sR	GAATAGGTATGATTTCATGT	
Universal 16S rRNA (bacterial)	Eub-16SF	GCTTAACACATGCAAG	PCR of bacterial genomic DNA for detection assay
	Eub-16SR	CCATTGTTAGCACGTGT	
LSU rRNA (mt)	mt 16S-F	TTCGTCCAACCATTCATGCC	Q-PCR for copy number assay
	mt 16S -R	TTTGCTAACCTGCCACTGA	
18S rRNA (nuclear)	18S-F	TTGCGAAACAACCGTAACAC	Q-PCR for copy number assay
	18S-R	GGTAAACCGCTGAACCACCTT	

All sequences are shown 5' to 3'