

List of PCR primers and reaction conditions

Target	Target gene	Primer name	Primer sequence (5'-3')	Product size (bp)	Temperature Profile	Refs.*
Invertebrates	COI	LCO1490 HCO	GGTCAACAAATCATAAAGATATTGG TAAACTTCAGGGTGACCAAAAAATCA	600	95°C 3:00; 35x(94°C 1:00, 54°C 1:00, 72°C 1:30); 72°C 10:00	1
<i>Megastigmus</i> spp.	COI	Ana Will	TCCAAAAATTGCAAATACAGC TTCCTGATATAGCATTTCCTCG	900	95°C 3:00; 35x(94°C 1:00, 54°C 1:00, 72°C 1:30); 72°C 10:00	2
<i>Arsenophonus</i>	16S	ArSF ArSR3	GGGTTGTAAAGTACTTTCAGTCGT CCTYTATCTCTAAAGGMTTCGCTGGATG	580-800	95°C 2:00; 35x(94°C 0:30, 52°C 0:30, 72°C 1:30); 72°C 5:00	3
<i>Cardinium</i>	16S	CLOf CLOr1	GCGGTGTAAAATGAGCGTG ACCTMTTCTTAACTCAAGCCT	450	94°C 4:00; 35x(94°C 0:40, 57°C 0:40, 72°C 0:45); 72°C 5:00	4
<i>Rickettsia</i>	gltA	Rp877p Rp1258n	GGGGACCTGCTCACGGCGG ATTGCAAAAAGTACAGTGAACA	381	95°C 3:00; 35x(95°C 0:20, 48°C 0:30, 60°C 2:00); 72°C 10:00	5
<i>Rickettsia</i>	16S	RSSUf RSSUr	GCTTTCAAAACCTACTAATCTA AAAAGCATCTCTGCGATCCG	380	95°C 3:00; 35x(95°C 0:60, 51°C 0:45, 72°C 1:00); 72°C 5:00	6
<i>Spiroplasma poulsonii, kunkelii, citri</i>	p58	p58-f p58-r	GTTGGTTGAATAATATCTGTTG GATGGTGCTAAATTATATTGAC	793	95°C 3:00; 35x(94°C 1:00, 54°C 1:00, 72°C 1:30); 72°C 10:00	7
<i>Spiroplasma ixodetis</i>	16S	Spixof Spixor	TTAGGGGCTCAACCCCTAACC TCTGGCATTGCCAACTCTC	810	95°C 2:00; 35X (94°C 0:30, 52°C 0:30, 72°C 1:30); 72°C 5:00	3
<i>Wolbachia</i>	coxA	coxA_F1 coxA_R1	TTGGRGCRATYAACTTTATAG CTAAAGACTTTKACRCCAGT	402	94°C 2:00; 36x(94°C 0:30, 59°C 0:30, 72°C 1:30); 70°C 10:00	8
<i>Wolbachia</i>	ftsZ	ftsZ_F1 ftsZ_R1	ATYATGGARCATATAAARGATAG TCRAGYAATGGATTRGATAT	1200	94°C 3:00; 35x(94°C 0:30, 54°C 0:45, 70°C 1:30); 70°C 10:00	8
<i>Wolbachia</i>	gatB	gatB_F1 gatB_R1	GAKTTAAAYCGYGCAGGBGTT TGGYAAAYTCRGGYAAAGATGA	369	94°C 2:00; 36x(94°C 0:30, 55°C 0:30, 72°C 1:30); 70°C 10:00	8

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