

## SUPPLEMENTARY MATERIAL

**Table S1. Sample characteristics of individuals sequenced in this study. Sequences obtained and analysed for a given mite population (sample) were identical except for two samples: TA-ARGa and TA-BRAB (see Table 1 in the paper)**

Sample code	No of sequences obtained (number of specimens used for DNA extraction)			DNA vouchers	
	COI	D2	ITS	COI & D2	ITS
AE-POLa	1 (1)	-	4 (1, 1, 2, 1)	AS399	Pol-2a, Pol-2b, Pol-3a, Pol-3b
AE-POLb	2 (15, 5)	1 (15)	4 (2, 1, 4, 3)	AS407, AS408	Pol-4a, Pol-4b, Pol-5a, Pol-5b
BC-AUS	2 (1, 1)	1 (1)	-	AS606, AS607	-
BI-POL	2 (15, 15)	1 (15)	2 (10, 10)	AS338, AS339	Pol-9a, Pol-9b
ER-POLa	1 (20)	1 (20)	2 (4, 4)	AS292	Pol-13a, Pol-13b
ER-POLb	1 (25)	1 (15)	2 (4, 4)	AS327	Pol-14a, Pol-14b
ER-POLc	2 (16, 8)	1 (16)	2 (10, 5)	AS351, AS352	Pol-15a, Pol-15b
HM-AUSa	2 (20, 30)	-	-	AS520, AS521	-
HM-AUSb	1 (20)	1 (20)	7 (10, 10, 5, 5, 5, 2)	AS523	Aus-D2a, Aus-D2b, Aus-D2c, Aus-D2d, Aus-D2e, AusDf,
HM-AUSc	2 (40, 40)	-	4 (15, 15, 10, 10)	AS526-AS528	Aus-D3a, Aus-D3b, Aus-D3c, Aus-D3d
HM-AUSd	1 (6)	-	1 (21)	AS532	Aus-8AS
HM-POLa	1 (30)	1 (30)	4 (5, 5, 5, 5)	AS058	Pol-10a, Pol-10b, Pol-10c, Pol-10d
HM-POLb	2 (1, 1)	-	4 (10, 5, 5, 5)	AS364, AS366	Pol-12a, Pol-12b, Pol-12c, Pol-12d
TA-AUSa	1 (15)	-	1 (2)	AS529	Aus-7AS
TA-AUSb	4 (10, 30, 30, 30)	2 (30, 30)	-	AS594-AS597	-
TA-AUSc	3 (5, 10, 10)	-	-	AS608-AS610	-
TA-ARGa	2 (20, 23)	1 (20)	3 (10, 10, 1)	AS119, AS120	Arg-502a, Arg-502b, Arg-502c
TA-ARGb	1 (20)	-	3 (15, 15, 1)	AS476	Arg-508a, Arg-508b, Arg-508c
TA-ARGc	1 (10)	-	1 (10)	AS477	Arg-505a
TA-ARGd	1 (20)	-	4 (15,15,15,1)	AS478	Arg-507a, Arg-507b, Arg-507c, Arg-507d
TA-ARGe	-	-	2 (20, 20)	-	Arg-506a, Arg-506b
TA-BRAa	2 (20, 15)	1 (20)	-	AS117, AS118	-
TA-BRAB	1 (25)	1 (20)	3 (1); 6 (10), 10 (15); 7 (20)	AS123	Br-36a-Br-36d; Br-503a-Br-503e; Br-509a-Br-509i; Br-800a-Br-800h
TA-FRA	4 (1, 1, 1, 1)	1 (1)	1 (5)	AS479, AS481, AS483, AS484	Fra-501f
TA-POL	3 (15, 30, 15)	3 (15, 30, 15)	9 (20, 20, 1, 15, 14, 1, 15,14,1)	AS344, AS379, AS415	Pol-1a, Pol-1b, Pol-1c, 2Pol-A, 2Pol-B, 2Pol-C, 3Pol-A, 3Pol-B, 3Pol-C
CE-POLb	-	-	4 (15, 15, 15, 15)	-	AS722
AS-POLa	3 (10, 25, 10)	1 (10)	-	AS218-AS220	-
AS-POLb	1 (20)	-	-	AS228	-
AC-POL	2 (20, 30)	1 (30)	4 (30, 30, 30, 30)	AS381, AS396	AS396