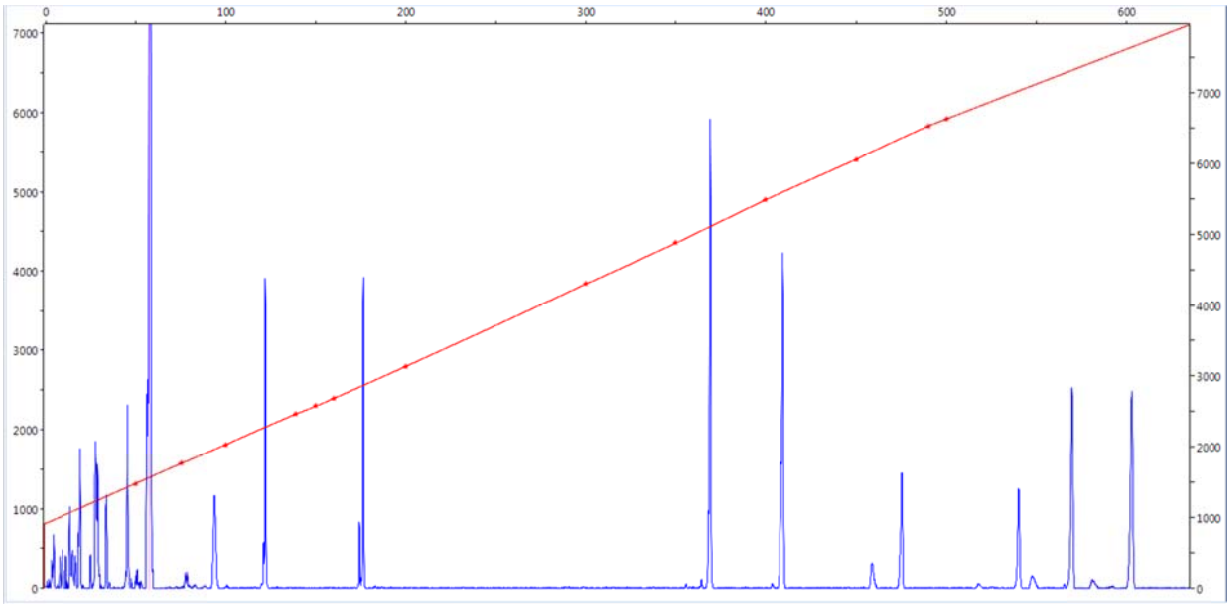
Fig. S1 Example of amplification of multiplex PCR with all species considered together in the same electropherogram. Individual electropherograms are detailed below for each species.



Tu: *T. urticae*; Pc: *P. citri*; As: *A. swirskii*; Pp: *P. persimilis*; Es: *E. stipulatus*; Nc: *N. californicus*; Tp: *T. phialatus*; Nb: *N. barkeri*

Table S1 Non-target organisms screened for cross-reactivity in the multiplex PCR.

Kingdom	Phylum	Class	Order	Family	Species	Origin
Animalia	Arthropoda	Arachnida	Acari	Acarididae	-	Montcada, Spain
				Phytoseiidae	*Amblyseius andersoni*(Chant)	Syngenta
				Tetranychidae	*Aplonobia histricina* (Berlese)	Montcada
					Eutetranychus banksi (McGregor)	Huelva, Spain
					Eutetranychus orientalis (Klein)	Málaga, Spain
					*Oligonychus perseae*Tuttle, Baker &Abbatiello	Málaga
					Tetranychus evansi Baker & Pritchard	Valencia, Spain
				Tydeidae	-	Montcada
		Insecta	Hemiptera	Aleyrodidae	*Aleurothrixus floccosus* (Maskell)	Les Alqueries, Spain
				Aphididae	*Aphis* (*Aphis*) *gossypii* Glover	Montcada
					Aphis (*Aphis*) *spiraecola* Patch	Montcada
					Toxoptera aurantii (Boyer de Fonscolombe)	Montcada
				Diaspididae	*Aonidiella aurantii* (Maskell)	Carcaixent, Spain
					Aspidiotus nerii Bouché	Montcada
					Parlatoria pergandii Comstock	Montcada
				Lecaniidae	*Saissetia oleae* (Olivier)	Bétera, Spain
				Margarodidae	*Icerya purchasi* Maskell	Montcada
				Pseudococcidae	*Planococcus citri* (Risso)	Bétera
			Thysanoptera	Thripidae	*Frankliniella occidentalis* (Pergande)	Montcada
					Pezothrips kellyanus (Bagnall)	Montcada
Fungi	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	*Cladosporium* sp.	Montcada
			Pleosporales	Pleosporaceae	*Alternaria* sp.	Montcada
		Sordariomycetes	Hypocreales	Nectriaceae	*Fusarium* sp.	Montcada

Table S1 *Continued*

Kingdom	Phylum	Class	Order	Family	Species	Origin
Plantae	Streptophyta	Eudicotyledoneae	Caryophyllales	Aizoaceae	*Carpobrotus edulis* (L.) L. Bolus	Montcada
		Liliopsida	Poales	Poaceae	*Festuca arundinacea* Schreb.	Castelló
		Magnoliopsida	Fabales	Fabaceae	*Phaseolus vulgaris* L.	Montcada
			Sapindales	Rutaceae	*Citrus clementina* Hort ex Tan	Montcada

Table S2 Sequences of the mitochondrial cytochrome oxidase I (COI) gene of the selected Acari species used in this study.

Species (Family)	**Origin**	**Primer sequence (5'→3')**[1]	Size[2]	T_a[3]	**References**	**Accession number**
Panonychus citri (Tetranychidae)	Castelló, Spain	TGATTTTTTGGTCACCCAGAAG (for)[4] TACAGCTCCTATAGATAAAAC (rev)[4]	453	50	This work	GU565321
Tetranychus urticae (Tetranychidae)	Castelló, Spain	TGATTTTTTGGTCACCCAGAAG (for)[4] TACAGCTCCTATAGATAAAAC (rev)[4]	455	50	This work	GU565324
Typhlodromus phialatus (Phytoseiidae)	Montcada, Spain	CGGGGTTTGGTATAATTTCTC (for)[5] TACAGCTCCTATAGATAAAAC (rev)[4]	404	45	This work	KP642063
Neoseiulus californicus (Phytoseiidae)	Koppert Biol. Syst.	TGATTTTTTGGTCACCCTGAAGTTTA (for)[4] TACAGCTCCTATAGATAAAAC (rev)[4]	476	50	This work	KP642059
Euseius stipulatus (Phytoseiidae)	Montcada, Spain	TGATTTTTTGGTCACCCAGAAG (for)[4] TACAGCTCCTATAGATAAAAC (rev)[4]	453	50	This work	GU565320
Phytoseiulus persimilis (Phytoseiidae)	Koppert Biol. Syst.	TGATTTTTTGGTCACCCTGAAGTTTA (for)[4] TACAGCTCCTATAGATAAAAC (rev)[4]	454	50	This work	KP642058
Amblyseius swirskii (Phytoseiidae)	Koppert Biol. Syst.	TGATTTTTTGGTCACCCAGAAG (for)[4] TACAGCTCCTATAGATAAAAC (rev)[4]	453	50	This work	GU565317

[1] for: forward primer; rev: reverse primer; [2]Size: Size amplified fragment (bp); [3] T_a: annealing temperature (ºC); [4] Navajas et al. (1996); [5] This work

Table S3 Number of positive detections for each predator and prey combination at different time intervals since feeding.

Prey	Predator	Time since feeding (h)										
		0	**2**	**4**	**6**	**8**	**10**	**12**	**16**	**20**	**24**	**28**
T. urticae	*E. stipulatus*	7(7)[1]	10(10)	10(10)	8(10)	8(10)	-	4(9)	3(10)	5(11)	6(10)	2(10)
	N. californicus	11(11)	10(10)	9(12)	5(9)	7(11)	6(10)	6(10)	2(10)	4(10)	0(3)	4(10)
	P. persimilis	11(12)	11(12)	10(12)	6(11)	5(10)	5(10)	4(10)	3(11)	0(10)	-	2(10)
P. citri	*E. stipulatus*	9(10)	7(10)	3(10)	0(10)	1(10)	0(10)	0(10)	-	-	-	-
	N. californicus	9(10)	7(10)	3(10)	0(10)	2(10)	0(10)	0(10)	-	-	-	-
	P. persimilis	4(10)	4(9)	2(10)	0(10)	0(10)	-	-	-	-	-	-

[1] Number in parenthesis represents the number of individuals tested.

Table S4 Description of sampling sites.

Number of sampling	Location	UTM coordinates	Data of sampling	Cover management
1	Llíria	39º 43’ 37.75’’ N; 0º 35’ 8.69’’ W	July 2010	*Festuca arundinacea* Schreb. cover
2	Vila-real	39º 57' 35.78'' N; 0º 10' 9.38'' W	July 2010	Wild cover
3	Les Alqueries	39º 54' 3.89'' N; 0º 6' 27.95'' W	August 2010	Wild cover
4	Xeraco	39º 2' 41.12'' N; 0º 12' 24.25'' W	September 2010	Bare soil
5	Les Alqueries	39º 54' 3.89'' N; 0º 6' 27.95'' W	March 2011	Bare soil
6	Vila-real	39º 55’ 27.83’’ N; 0º 9’ 25.23’’ W	May 2011	Bare soil
7	Benifairó de les Valls	39º 43' 28.12'' N; 0º 16' 57.08'' W	June 2011	Wild cover
8	Montcada	39º 35' 10.98'' N; 0º 24' 43.16'' W	June 2011	Wild cover
9	Castelló de la Plana	40º 0' 13.03'' N; 0º 1' 48.96'' W	June 2011	Bare soil

Table S5 Probit curves adjusted for positive detections and prey detection success over time (DS_{50}) from a single *T. urticae* or *P. citri* specimen.

Prey	Predator	n	Slope	Intercept	d.f.	χ^2	*P*	DS_{50} (h)	95% f.l.[1]
T. urticae	*E. stipulatus*	97	-0.085 ± 0.017	1.554 ± 0.293	8	12.692	0.123	**18.33**	13.27 - 27.43
	N. californicus	106	-0.072 ± 0.016	1.081 ± 0.230	9	13.478	0.142	**14.99**	9.81 - 24.62
	P. persimilis	108	-0.100 ± 0.019	1.071 ± 0.227	8	11.777	0.161	**10.67**	7.97 - 13.71
P. citri	*E. stipulatus*	70	-0.401 ± 0.088	1.196 ± 0.377	5	4.276	0.510	**2.99**	1.66 - 4.10
	N. californicus	70	-0.337 ± 0.073	1.066 ± 0.352	5	7.285	0.200	**3.16**	1.62 - 4.36
	P. persimilis	49	-0.286 ± 0.102	0.051 ± 0.337	3	2.423	0.489	**0.18**	0 - 1.81

[1] f.l.: fiducial limits at 95%