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Figure S1: Re-assignment of 158 partial *Cryptolestes* mtCOI sequences (570-613bp) from GenBank (n=129) and generated from this study (n=29). Orange highlighted GenBank Accession numbers are used in phylogenetic analysis. Grey-highlighted cells are misidentified species based on high node confidence estimates in the phylogeny (see Fig. 1). Clades A-J are as shown in Fig. 1 (A: *C. pusillus*, B: *C*. sp. **'**WTT-2013**'**, C: *C. turcicus*, D: *C. capensis*, E: *C. ferrugineus*-A, F: *C. ferrugineus*-B, G*: C. pusilloides*, H: *C. corticinus*/*C. spartii*, I: *C. duplicatus*, J: *C*. sp. **'**WTT-2016**'**). Green filled boxes indicate the phylogenetic clade where the individuals were re-assigned to. Yellow-highlighted boxes are for the *C. corticinus*/*C. spartii* individuals where correct assignment was not possible (see main text). Non-GenBank sequences can be downloaded from CSIRO's Data Access Portal (Tay et al., 2024).

Haplotype number	Number of sequences	GenBank accession	Reported species	Re-assigned into clade: A	B	C	D	E	F	G	H	I	J
1	3	KF241725	*C. ferrugineus*					■					
		KX528586	*C. ferrugineus*					■					
		MG054097	unclassified					■					
2	2	KF241727	*C. ferrugineus*					■					
		KF241726	*C. ferrugineus*					■					
3	1	KF241729	*C. ferrugineus*					■					
4	5	KF241730	*C. ferrugineus*					■					
		Cfer-T6-05	*C. ferrugineus*					■					
		PBCRC-12	*C. ferrugineus*					■					
		KJ964655	*C. ferrugineus*					■					
		KX528589	*C. ferrugineus*					■					
5	1	KF241739	*C. pusilloides*							■			
6	6	KF241740	*C. pusilloides*							■			
		PBCRC-27	*C. pusilloides*							■			
		PBCRC-14	*C. pusilloides*							■			
		PBCRC-13	*C. pusilloides*							■			
		JQ708204	*C. ferrugineus*							■			
		KX528597	*C. ferrugineus*							■			
7	1	KF241733	*C. ferrugineus*					■					
8	1	KF241732	*C. ferrugineus*					■					
9	1	KF241728	*C. ferrugineus*						■				
10	2	KF241741	*C. pusilloides*							■			
		KX528594	*C. ferrugineus*							■			
11	1	KF241731	*C. ferrugineus*					■					
12	1	KF241744	*C. pusilloides*							■			
13	3	KF241742	*C. pusilloides*							■			
		Cpld-N4-02	*C. pusilloides*							■			
		KX528596	*C. ferrugineus*							■			
14	1	KF241743	*C. pusilloides*							■			
15	1	KF241723	*C. turcicus*			■							
16	1	KF241738	*C. pusillus*	■									
17	1	KF241736	*C. pusillus*	■									
18	1	KF241735	*C. pusillus*	■									
19	1	KF241734	*C. pusillus*	■									
20	1	KF241737	*C. pusillus*	■									
21	1	KF241724	*C* . sp. WTT-2013		■								
22	1	KJ502178	*C* . sp. WTT-2013		■								
23	1	KJ502177	*C. pusillus*	■									
24	1	KJ502175	*C. pusillus*	■									
25	1	KJ502176	*C. pusillus*	■									
26	2	Cpld-T6-01	*C. pusilloides*							■			
		KC977924	*C. ferrugineus*							■			
27	4	Cpls-T6-11	*C. pusillus*	■									
		PBCRC-10	*C. pusillus*	■									
		KC977930	*C. pusillus*	■									
		MG458966	*C. pusillus*	■									
28	1	PBCRC-11	*C. ferrugineus*					■					
29	1	PBCRC-29	*C. ferrugineus*					■					
30	1	PBCRC-07	*C. pusilloides*							■			
31	1	PBCRC-19	*C. turcicus*			■							
32	1	PBCRC-18	*C. turcicus*			■							
33	1	PBCRC-23	*C. pusillus*	■									
34	1	PBCRC-25	*C. pusillus*	■									
35	10	PBCRC-03	*C* . sp. WTT-2016										■
		PBCRC-05	*C* . sp. WTT-2016										■
		PBCRC-16	*C* . sp. WTT-2016										■
		PBCRC-01	*C* . sp. WTT-2016										■
		PBCRC-26	*C* . sp. WTT-2016										■
		PBCRC-02	*C* . sp. WTT-2016										■
		PBCRC-15	*C* . sp. WTT-2016										■
		KC436315	*C. pusilloides*										■
		KC977916	*C. pusilloides*										■
		KM450594	*C. pusilloides*										■
36	1	PBCRC-17	*C* . sp. WTT-2016										■
37	1	PBCRC-06	*C* . sp. WTT-2016										■
38	1	PBCRC-28	*C* . sp. WTT-2016										■
39	1	PBCRC-04	*C* . sp. WTT-2016										■
40	1	PBCRC-08	*C* . sp. WTT-2013		■								
41	1	PBCRC-09	*C* . sp. WTT-2013		■								
42	2	JQ708203	*C. ferrugineus*					■					
		KC977914	*C. ferrugineus*					■					
43	2	JQ708207	*C. turcicus*			■							
		KC977913	*C. turcicus*			■							
44	2	JQ708205	*C. pusillus*	■									
		KC977917	*C. pusillus*	■									
45	2	JQ708206	*C. pusillus*		■								
		KC977919	*C. pusillus*		■								
46	2	JQ708208	*C. capensis*				■						

		KC977912	*C. capensis*										
47	2	JX090160	*C. ferrugineus*										
		HQ984067	*C. ferrugineus*										
48	1	KC977927	*C. ferrugineus*										
49	1	KC977933	*C. turcicus*										
50	2	KC977931	*C. pusillus*										
		KC977921	*C. pusillus*										
51	1	KC977922	*C. pusillus*										
52	1	KC977918	*C. pusillus*										
53	1	KC977923	*C. pusillus*										
54	1	KC977920	*C. pusillus*										
55	2	KJ961815	*C. ferrugineus*										
		KX528588	*C. ferrugineus*										
56	5	KJ966304	*C. duplicatus*										
		KU919513	*C. duplicatus*										
		KU909614	*C. duplicatus*										
		KU908839	*C. duplicatus*										
		KU912488	*C. duplicatus*										
57	1	KM447067	*C. ferrugineus*										
58	1	KM449111	*C. pusillus*										
59	1	KM441850	*C. ferrugineus*										
60	1	KM451562	*C. duplicatus*										
61	1	KM440172	*C. duplicatus*										
62	1	KM447571	*C. corticinus*										
63	1	KM450873	*C. spartii*										
64	2	KT182067	*C. ferrugineus*										
		KT070713	*C. pusillus*										
65	1	KT070712	*C. turcicus*										
66	1	KM452565	*C. spartii*										
67	1	HQ984067	*C. ferrugineus*										
68	1	HQ582496	*C. ferrugineus*										
69	1	HM398877	*C. turcicus*										
70	1	KJ963948	*C. corticinus*										
71	1	KU909208	*C. ferrugineus*										
72	1	KU494091	*C. pusillus*										
73	1	KU494097	*C. pusillus*										
74	1	KU494094	*C. pusillus*										
75	1	KU494092	*C. pusillus*										
76	1	KU917587	*C. duplicatus*										
77	2	KU918377	*C. corticinus*										
		KU912013	*C. corticinus*										
78	1	KX528600	*C. ferrugineus*										
79	1	KX528599	*C. ferrugineus*										
80	1	KX528598	*C. ferrugineus*										
81	1	KX528590	*C. ferrugineus*										
82	1	KX528591	*C. ferrugineus*										
83	1	KX528593	*C. ferrugineus*										
84	1	KX528592	*C. ferrugineus*										
85	1	KX528595	*C. ferrugineus*										
86	1	MG458967	*C. ferrugineus*										
87	1	MF642053	unclassified										
88	1	MN658879	*C. pusillus*										
89	1	MN658934	*C. pusillus*										
90	1	MN658928	*C. pusillus*										
91	1	MN658930	*C. pusillus*										
92	2	MN658933	*C. pusillus*										
		MN658921	*C. pusillus*										
93	1	MN658922	*C. pusillus*										
94	1	MN658920	*C. pusillus*										
95	1	MN658924	*C. pusillus*										
96	1	MN658929	*C. pusillus*										
97	1	MN658923	*C. pusillus*										
98	3	MN658927	*C. pusillus*										
		MN658919	*C. pusillus*										
		MN658918	*C. pusillus*										
99	1	MN658931	*C. pusillus*										
100	2	MN658913	*C. pusillus*										
		MN658910	*C. pusillus*										
101	1	MN658935	*C. pusillus*										
102	1	MN658916	*C. pusillus*										
103	1	MN658932	*C. pusillus*										
104	1	MN658926	*C. pusillus*										
105	1	MN658925	*C. pusillus*										
106	4	MN658917	*C. pusillus*										
		MN658914	*C. pusillus*										
		MN658912	*C. pusillus*										
		MN658911	*C. pusillus*										
107	1	MN658915	*C. pusillus*										
108	1	HQ582496	*C. ferrugineus*										
109	1	KJ963948	*C. corticinus*										

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Note: Seven individuals (*C. corticinus* (n=4), *C. spartii* (n=2), unknown (n=1)) could not be re-assigned to either *C. corticinus* or *C. spartii*. Two 'unclassified' individuals were assigned to *C. turcicus* and *C. ferrugineus*. A total of 29 misidentified species (excluding 'unclassified' individuals) were detected, these were: [1] *C. ferrugineus* (n=16), [2] *C. pusilloides* (n=3), [3] *C. pusillus* (n=9), and [4] *C. turcicus* (n=2). Eleven short sequences (KU494090, KU494096, KP134145, KX528603, KX528604, KX528601, KX528602, KX528605, KX528587, KX528606, KR481923) and one pseudogene (KU494093) were no included in the study.