

**Supplementary Table S2.** Data of the satDNA families found in *Triatoma infestans*: genome abundances (%), divergences, A+T contents, and consensus sequences. Table includes the satDNAs families previously characterized in Pita et al. (2017) (Old families) and the new satDNAs detected in this study (New families).

Old families	New families	Genome abundance (Andean) (%)	Divergence (Andean)	Genome abundance (non-Andean) (%)	Divergence (non-Andean)	A+T	Accession number	Consensus sequence
TinfSat01-33		11.671	7.31	2.099	7.28	0.67		Pita et al. (2017)
TinfSat02-79		9.300	3.71	11.127	4.79	0.59		Pita et al. (2017)
TinfSat03-4		6.236	4.24	3.202	4.15	0.75		Pita et al. (2017)
TinfSat04-1000		4.927	12.13	6.473	13.26	0.67		Pita et al. (2017)
TinfSat05-4		2.627	0.64	0.734	1.29	0.75		Pita et al. (2017)
	TinfSat43-242	0.679	11.28	0.697	11.63	0.48	OQ082237	>TinfSat43-242 GGCGCGTCAACATCTATGGTCATTGGCGCCCGGAGCCTTCT CAGTGCAGTCCCGCCTCCGGACAGTGTTCTCTCGTTACAG ACAACACTGTCCATCACCGGACAGTGAGCTGTAGAGGCTC CTAGGAAGAAAAATCTAAGGGCAGCACGCTGGACTCGA ACCCGGGACCTCCGCGTGGAGTCCAGTCGCTAACCACTGA GCTAATCCCTTCCCTTTTTTTTTTTTTTTTTTAATTTAA
	TinfSat44-8	0.405	18.22	0.126	18.65	0.63		>TinfSat44-8 GATAGTTG
	TinfSat45-94	0.318	7.81	0.342	8.15	0.48	OQ082238	>TinfSat45-94 CGGAAAATGTCTCTGATGCTTTCCAGCTCTGCGGAACCAA CCACCACAAAACGCCCGAAACCGGTCGATGACCACAAAA TGAAGCAGGCTACCA
	TinfSat46-131	0.264	17.95	0.358	19	0.65	OQ082239	>TinfSat46-131 GGGGTTCTGGGGGAACAGTAGCGTTATGCTTTCCTCTAAAG TACCACTTCAGTATAATATATGGTTTTACCACCTACATAAT ATACCTATCACTTTTATTGAAACATTTCCCGGGAAAAATT GATTTTTT
TinfSat06-181		0.204	11.49	0.129	11.94	0.76		Pita et al. (2017)
TinfSat08-239		0.196	12.36	0.184	14.34	0.59		Pita et al. (2017)

	TinfSat47-87	0.133	15.08	0.135	15.44	0.59	OQ082240	>TinfSat47-87 TACCTAAACGGAATACCAAGTTTGAGCTTCCTGCAATTTTC GTTTTTGGATTTTCCCGAAATCTTCGTGTCTAGATGCGGTG GTAG
TinfSat36-10		0.066	10.26	0.010	10.06	0.50		Pita et al. (2017)
TinfSat09-113		0.064	3.94	0.358	11.18	0.78		Pita et al. (2017)
TinfSat07-10		0.058	7.56	0.008	7.66	0.40		Pita et al. (2017)
TinfSat12-84		0.049	19.53	0.047	20.69	0.64		Pita et al. (2017)
	TinfSat48-120	0.047	11.04	0.048	11.55	0.56	OQ082241	>TinfSat48-120 TATTACATCATCAGGTTCTCCCACTCTAGCCTGCTTAAGTC AGAGAGTACCAGAGAGGGTCTTTTCTCTCTTAATTCTCTCG TCTGTCTGCTCTCTTGCTGATGTAATTCTCTCTTGC
	TinfSat49-94	0.033	16.31	0.045	16.68	0.70	OQ082242	>TinfSat49-94 GGAGTGTATGGTTTCCTCAAAAAAGTCATTTTATTAAGTTT AGATTCTCCAATTGATATAAAATTGAAGACAATTAAACAT TTTGGAGAGAGGG
TinfSat10-53		0.033	4.16	0.024	3.54	0.58		Pita et al. (2017)
	TinfSat50-63	0.032	13.4	0.011	15.71	0.43	OQ082243	>TinfSat50-63 CGTGGCTTAAGTGCTCGTCCAGTTCGATGATTGGTCAGTTG GAGAGGGGTGGGGTAAGTGGG
	TinfSat51-137	0.032	18.4	0.041	21.03	0.61	OQ082244	>TinfSat51-137 TAACAGGAGTAAGAGAAAGGCGTGTGAGTGTCCCCCACC ACCTCCCCCTCCTAACATCACCAAATATATGTTAGGACA AATGAGTAAAATTGGAAGTTTAAAGTAAATTCGTCACTTT ATATATATCTCATTGTAG
TinfSat14-147		0.031	11.6	0.032	17.6	0.64		Pita et al. (2017)
	TinfSat52-334	0.028	4.72	0.150	4.36	0.70	OQ082245	>TinfSat52-334 TAAACAGGCATAGGATATTATGCGCTAAAAAACATGTTAC TTTTTAATCGAAGAATATTGGAACAAGTTAAACCATTATAA GTTTCTAATCTGGGGAATGATTGCATTATATCCAAATTCG AAATCTTCTGTTTTGTAGCCATTGTCTAACGTCTATTAGTCC AAGAAAAACACAGATATACAATAGAATATAAACATATAT TGCATAAAACATTCTTAAGTTATCGCATGGCAATTATTGT GGATTGCAATAACAGTTTTGCTAGTAATTTCCAAGTTCTTT CCTCAACCTTTCTAAACATGTAACAACTTGTTCTACTGTCTT ACATTCT

	TinfSat53-128	0.027	18.91	0.035	20.23	0.65	OQ082246	>TinfSat53-128 TTTCAATTACTCATATGTCCTAATATAAAATATACAGGTGGT GGGAGACAAGTGCCAGCCTAGCAACACAGACAGGTACAG AATGATTACATTGTAGATAGCCAATAATTGAACAAACA CATTGAA
	TinfSat54-128	0.027	15.2	0.025	18.41	0.61	OQ082247	>TinfSat54-128 AGATTGTGTGTTACAAAACACACCGACTATTAGCTCCGCAT TCTTACATTGCACATATATAGGCCAGATACGGTGGCAGTGT CTAAACAGAATACCATATTTGAGCTTCCTGTAATTTTCGTT ATTG
	TinfSat55-89	0.026	13.66	0.031	16.21	0.71	OQ082248	>TinfSat55-89 TAAGTGCAGTGAGAGTAAGTTGTGTGAATGTTTTTCACACC ATTGAGTAACATTCCATTATAAAGAAAATTGTCAATTGTA ATTGTAT
TinfSat13-147		0.025	6.57	0.014	6.8	0.59		Pita et al. (2017)
	TinfSat56-118	0.023	14.48	0.026	16.71	0.64	OQ082249	>TinfSat56-118 TAAGTGGAGTAAGAGAAAGTCGTGTGAATATTTCCACCA GTTTTACTTTGAAACACCTGGTAGCAAGTTAATGGTTCCGT TACTGCTGTACAAGCGATTAAACAGTTAAATTGTAT
TinfSat21-38		0.021	10.16	0.007	10.58	0.63		Pita et al. (2017)
TinfSat39-5		0.021	3.39	0.011	4.67	0.60		Pita et al. (2017)
TinfSat11-85		0.020	4.68	0.020	4.43	0.71		Pita et al. (2017)
TinfSat19-104		0.020	5.79	0.002	6.36	0.63		Pita et al. (2017)
TinfSat17-118		0.017	4.04	0.003	3.99	0.60		Pita et al. (2017)
	TinfSat57-164	0.017	7.43	0.006	7.62	0.62	OQ082250	>TinfSat57-164 AATTGTTTGGAGTTAAATAAGGTGAGTGGCCAGTGCTGCT GTGCTGGTCACGTTTGTAGCTTTGTTTAAACATAATCCTTCAA TTCTACCCACAGCTTGCCGTTATGTTAGTTCTTAGGAATTA GCATATATATGCGGCGCCCTTTATATATATATTAGTGTAG
	TinfSat58-96	0.016	7.24	0.010	8.14	0.68	OQ082251	>TinfSat58-96 GGCAAGAAAGGTAATGAGTACAAAGTTAATTTTTACATA ATAGGATTAAGTATTACTAAACATGCTAATAAGACCTGTG GTAACATGTCGGACA

	TinfSat59-132	0.015	3.92	0.004	4.32	0.56	OQ082252	>TinfSat59-132 GAGACACGAGTTTCCCTTATTACAATTACAGTTATAGTTTG GTAAATTAACACAGAGTGGTGGGGGTACATGTAGCAGGTA GCAGCTAGTACTTTACCCGGTCCACAATACGCCACCTCCAT CACACTGAAT
TinfSat33-372		0.015	6.59	0.017	5.98	0.58		Pita et al. (2017)
TinfSat16-49		0.015	5.2	0.004	6.1	0.73		Pita et al. (2017)
TinfSat20-46		0.014	6.16	0.002	16.64	0.70		Pita et al. (2017)
TinfSat18-102		0.014	8.94	0.006	23.45	0.63		Pita et al. (2017)
	TinfSat60-33	0.014	10.3	0.015	8.8	0.70	OQ082253	>TinfSat60-33 TCTACACACATAAAATACCTATCACTGTATACTA
TinfSat42-112		0.014	15.5	0.017	14.36	0.63		Pita et al. (2017)
TinfSat30-58		0.013	4.63	0.005	4.53	0.66		Pita et al. (2017)
TinfSat15-99		0.013	7.69	0.011	8.44	0.69		Pita et al. (2017)
TinfSat23-51		0.012	3.61	0.007	3.43	0.67		Pita et al. (2017)
TinfSat24-112		0.012	4.75	0.010	4.38	0.58		Pita et al. (2017)
TinfSat22-64		0.012	2.46	0.002	3.15	0.78		Pita et al. (2017)
	TinfSat61-89	0.012	6.35	0.007	8.82	0.71	OQ082254	>TinfSat61-89 CAGTTGGGTGTAATGTTCAAGAAAAATACTAAATACTCTG TTTTCAGCAAAAATACATCGGAAAATTTTATTTTAGTACAAC ACACACTT
TinfSat25-62		0.012	8.95	0.019	8.56	0.56		Pita et al. (2017)
	TinfSat62-120	0.011	12.05	0.019	11.58	0.61	OQ082255	>TinfSat62-120 TAAGAGAAAGTTGAGTGAGTATTTACACCAGTTTTTAGTC ACACTCAAGAACTGTCAGCAATGTGTGCAATAAAAATGCA CTAACACAACCAGTGTGTCCATGCTAGTACTAACTGCAG
TinfSat26-53		0.011	9.73	0.002	8.97	0.62		Pita et al. (2017)

TinfSat63-237	0.010	2.94	0.002	9.85	0.74	OQ082256	>TinfSat63-237 AATATATTTATAATGAATTTCTAAAGAAAAATTCGAAAAAC ACAATGCGTTAGGTTAAAGGCAAATATTTAACCAAAATGC AACACGAAATCTAACAAAAGAATAATTCTGTTTACTACGA AACAGACGACAAAAATACATTAGATTACGGCAAATATTT AACAAAAATGTATAGCAAATAAATGCAACACGAAATCTA ACAAAAAGAATAATTCTGTTTACTACGAAACAGACAAA
TinfSat64-88	0.009	8.71	0.003	5.44	0.73	OQ082257	>TinfSat64-88 AGGTGAGTGTGTACTAAAATGAAATTTTATAGATGAATTTT GGTGAAAATAGTGGATTTAGTATTTTATTGTACATTAAACG CAACTG
TinfSat65-103	0.009	6.44	0.007	10.6	0.67	OQ082258	>TinfSat65-103 TATAGCCTTTTCGAAACAATCGCGAAAAAAAACATTCAGT TACTTCTTTCAGGTAGAAGTTACAGACCATTATGCGTGTAT TTAGTGTGTGAAGTAATGTTTT
TinfSat31-71	0.009	9.18	0.001	10.47	0.70		Pita et al. (2017)
TinfSat27-47	0.008	5.57	0.008	5.47	0.62		Pita et al. (2017)
TinfSat66-161	0.008	8.29	0.011	8.21	0.61	OQ082259	>TinfSat66-161 TAGTGCTGCGTTTGTGCCGGCGATTACCAAATTTTCATCGT TTGTGCCGTAAAATTGACAAAGATATTGAAGAAAAAAGT GGCCAGTCCAACCTTGACGTCAAGTTAGACTGGCCACAAAA TTTCTATTCACTTTTTTAACTTTTCTCTTGCCAATCGT
TinfSat28-46	0.008	3.87	0.009	4.22	0.65		Pita et al. (2017)
TinfSat32-52	0.008	5.97	0.012	6.37	0.60		Pita et al. (2017)
TinfSat67-114	0.008	4.55	0.007	4.78	0.68	OQ082260	>TinfSat67-114 TATCGTTACAACATTATTAATCTCATTACAGAGAATCTCT ATATCGTTTTTAGCAGAACATTCTACAATAACTCCGCCATT AGAGATTCCCTTAATGTTTTCTACACCCAATT
TinfSat29-87	0.008	2.42	0.007	2.68	0.64		Pita et al. (2017)
TinfSat68-136	0.007	13	0.008	15.19	0.65	OQ082261	>TinfSat68-136 TTTCAAATTTGCTCATTGTGTCATGACATAAATATACAAATA GTGGGGGAACAAGAGCCATCCAACTACCTATAGAGGCA GCTACAGAATGAGTACATTGTAGGGAGGCCAATTATAGTA AACAAACATATTGAA
TinfSat69-58	0.007	1.87	0.006	1.85	0.71	OQ082262	>TinfSat69-58 TATGAGGAAGGAGAAATCATTAACTGTAACCTCCACAAGA AACATAAAGAAAGAAAATT

TinfSat70-170	0.006	11.64	0.004	13.72	0.70	OQ082263	>TinfSat70-170 TTAAATTTACTACAATTTATGTTCTGTGGTATTTTTAGATAG GACTACTCCTTAAGGAGATATTGCTGAAATACCAGTTAGG TGGAAGGTGAAGCTCCCAATATTTAGCTCATATCTTGGTT AATATTAACCTCTATGATAAACTGTATAGAACTAAAATTGT AGAGAA
TinfSat71-99	0.006	7.56	0.002	12.27	0.59	OQ082264	>TinfSat71-99 TTTGTAGGTTGGCTGGCTGAAGGTAAACAGGTACAAGAAA CCGTTAGATTAAGACAATATACTTATTGCCATTCCCCCCCC CCCTTAGAATAGAAGAAA
TinfSat72-49	0.005	3.67	< 0.001	2.32	0.69	OQ082265	>TinfSat72-49 GCAAACTATATAGTGAGATGATATGAGGGCAAGTATAACT ATATTTTGT
TinfSat73-44	0.005	3.45	0.007	4.14	0.66	OQ082266	>TinfSat73-44 TTTGGTTCTCACATAAAATACAGAACATTGCCGTTATTCAG ATA
TinfSat74-147	0.005	13.65	0.007	12.82	0.72	OQ082267	>TinfSat74-147 AAGATAATCTTCTTGTAATTTTATTGTTTCATCTGTTTTTGT TTATCATGAGTTTAACTGTATCGATCTTCTATGAATGGTT TGATCACTTTTAACTTTTGGAAAACTTTTGGAGGATA TACTCTTTCAGGTATTCCTGG
TinfSat75-167	0.005	2.89	N.D.	-	0.64	OQ082268	>TinfSat75-167 GTGTGAGGAGACGACTGCTAAAAATTGATGTGCTTGTAAC CCTAAAAATCTCAAGATATTATGCCGATATTTGGTCAAAAT ATACTACACTAGTATAGCATTAAACGAGCCAAAATTCAC TAGATCTGAGCAACGGAAGTGGGTTTTTTTTGCGGGAAATT Pita et al. (2017)
TinfSat76-70	0.005	3.78	0.006	3.96	0.63	OQ082269	>TinfSat76-70 TGTTTTGAGATCCTTGAGTGGAATGTTTTAGCCTTGATGA CTCTATGTTTCTGTGTATGTGTGAATAGA
TinfSat77-133	0.004	10.19	N.D.	-	0.68	OQ082270	>TinfSat77-133 AATTGGAGTACTGTAAAAATAGAAAAACGGATCCGTTTACCA TTGAGGCAACGTTGTTTTTTTGTGATGAAAAATCTACGATA ATAGCATTGCAAAGCAACTTTTTCTCAAAATCCATTTTGAAA GATTTACAGTA

TinfSat78-348	0.004	3.4	0.004	4.48	0.54	OQ082271	>TinfSat78-348 GTGAAGCCTATCACAACTTCGGCAACCTACACCGAAGAGT TCTCAACAATACAATCTTCATCACCTCATTCCACAGAACCA ACATCAGAAAAGTTATACTACTAACAGCCATCGCACAACTG AATCAGAATCTACACCAATCACACAATCAAGCCCAGAGAT ACGTACCACATTTACGTCCGCGTCCCCATCTACTGAGAAC AGTGCAACAACAACCGCCACCGCGCACACATCACAGCCT AGCTCTGAAACATTCAATACAATTAATACTACGGGTC CGGGCACTGAAACCTATTCAACAATAGTGGGTTACAGGCTC GACATCTCACAGCGAAGGTTATACTTCC
TinfSat79-72	0.003	6.97	0.001	6.48	0.65	OQ082272	>TinfSat79-72 TCCAGCCACACTAACTTCAAATATTAGAATAGTTTTCGCCA TTAAACCATATCACCAATCAACGTTCTAACA
TinfSat80-61	0.003	6.82	0.005	8.43	0.67	OQ082273	>TinfSat80-61 TATTAAGTGACTTTCTCTTACTGTAATTCTCACAGTCGAGTC AATTTTGAAAATGAAAGGC
TinfSat81-51	0.003	14.36	0.003	14.56	0.65	OQ082274	>TinfSat81-51 CTTCTCAGGAAAAAGTTCTTCTTCCCTTCCCCAAAATTCT TTCAATAAA
TinfSat35-35	0.002	2.99	0.007	2.91	0.69		Pita et al. (2017)
TinfSat82-207	0.002	9.59	0.002	11.44	0.63	OQ082275	>TinfSat82-207 TCAGTGGGCTTTTCGGTACTCTAGTTGTAAATTCAGTATCA TGAATTGTAGATTCTTCTGTGATATGTGTAGTCGGTTGCTCA GTGTTTGTGTGAAATTCTTCAGCGTTTGTGCATCCGTGCTA GATCCTATGTAAGATGCAGTATGGTCATTTGTGTAATATTT CGGGTTATTTGGTGTATTCGGTTTGAATGTTGTGTAATA
TinfSat83-235	0.002	2.36	0.005	2.23	0.70	OQ082276	>TinfSat83-235 AGAGATTGTTATATTCTTGTTAGTTTATAGCTTTGGTAATAT TTTATCGAATTGAATGTTAATTACATAGATGCAGTAGAGAT TGTCACAACTTGCAACATTCTTGATACTTTACACCTTTTACA GTTTTGCTACTTTTGTGGTTTATACCTTACCATATCACAA TTGCAAAAAAATAATAATGTTTGCAATATTTTACCAAGAGTT TGAACGTTAATTGCCGTTACATGCGGA

TinfSat843-379	0.001	7.3	0.002	8.71	0.69	OQ082277	>TinfSat84-379 ACCTCACACAAAAATATACCATATACTATCCTTTCCATGCGA AGAATTGAGACGAAATATGGGGCTTCGGTATTAGTTAGTA TGAGAAACAGTACTGACGACGAAGAAATTCGTTGTTTTT ACCCAAAAATTTACAGAACAGATCACAGACGACGTCGTT AAGGATTATAAACATTATAAACCATCATCATTATCACTTAT ATATAGGGGGTTGAACCTAATAAATCTTCAATATTCATT TCGTTTAATGGAAGAACAGATTATTGAGCTTGATCAGTATG TATGTTTTAAAGTTAAATGTACATAACTGATGAAGGTTTC TTATGTCATGATTGTGCGCAACAATTAGAAGTAGAAGATA AATTAAATATAAAA
TinfSat85-83	0.001	4.27	0.002	4.88	0.71	OQ082278	>TinfSat85-83 AAAAACATATACATATCACCCCTGTACTATTGATTAAGCTC CCAAATCTCTTTAACATAACTTTACACTATTACTATACTTA G
TinfSat86-114	0.001	7.29	0.001	7.46	0.57	OQ082279	>TinfSat86-114 GTAGAGGTGTCCGTGATGTCATGAAGATGGGAAATAATTG GCAGAGAGGGTTAGGGTGCGTCCTGACTCTGGCGAGTAGT TTTTTCAGTCTTAGCTTTAATAAAGTCAGTTATA
TinfSat87-98	0.001	17.91	0.001	17.1	0.60	OQ082280	>TinfSat87-98 ACCAGACCAATTACATAAATACTATAACGACCAATACTCC ACATATACGCTTTCTCTTACAACCCAAGACAATTCCTCTG GACCGCTC
TinfSat88-121	0.001	17.31	0.006	9.21	0.67	OQ082281	>TinfSat88-121 ATCCACTGAACAAACCAAATAGCATTTGAAATTTAACACA TTAGTCCTAACATTAAATATAGTGGGGGATCAACACAGGC GGTATAATTTGAATACATTACTGTCCTATAGATAGCGATAA
TinfSat89-49	0.001	8.62	0.002	8.06	0.86	OQ082282	>TinfSat89-49 TAATGATGTTCTTGATATAAATACAATATTTTAAAATTGAA TAAAATTC
TinfSat90-29	0.001	3.83	0.001	5.1	0.59	OQ082283	>TinfSat90-29 CTGTACAGAATAGCTAAGTGTGTGTGTGA
TinfSat91-238	0.001	9.79	0.001	8.89	0.74	OQ082284	>TinfSat91-238 CCAAACAACAATAATATGAACGGTTAACGGTCGTTTTTTTC TATCAGTTATCATTCAATCAGTTACAAAGTTTTACACTTTA ACATTTTTTTAATAAACTATTTGCATGTTTCCAATTATTTT ATTATTATTTCTCTTTAAACACTATATCCAACCTGGCACAT TCCTATCTAACAAAGTTTTTATATGTTTTCAATTTATATTTA ATTTAAACACTACACCCTCCTTGGAACATT



TinfSat40-73	< 0.001	5.28	< 0.001	6.34	0.60		Pita et al. (2017)
TinfSat92-61	< 0.001	4.28	0.003	3.54	0.72	OQ082285	>TinfSat92-61 TTGCCACTAACAGCAATAAGAGAAAAGTAAAAAAGAAGCA AAT
TinfSat93-102	< 0.001	5.83	< 0.001	7.22	0.65	OQ082286	>TinfSat93-102 GGAATTAATAATAGAGTCCGGTTACAAACGGTAATGAATTA TTTTTCTAAACCACTATAACTAGGGCTAGTAGCAACCAG CACTGTCTATCAGCTCATT
TinfSat94-89	< 0.001	10.09	< 0.001	19.98	0.71	OQ082287	>TinfSat94-89 TAACTGCAGTGAGAGTAAGTTGTGTGAATGTTTTTCACACC ATTGAGTAACATTCCATTATAAAGAAAATTTGTCAATTGTA ATTGTAT
TinfSat95-7	< 0.001	11.88	0.005	14.63	0.86	OQ082288	>TinfSat95-7 ACAATTT
TinfSat96-101	< 0.001	16.29	0.010	12.33	0.70	OQ082289	>TinfSat96-101 ATATTGTAGCAAAATAGTTAATTCTAAAGTAGGGGGAGG AATGCAGAGAGCAGTCAAATTCATTTGAACATAAACATCA TTTATTATGTTAACTTACACT
TinfSat37-314	N.D.	-	0.037	3.48	0.45		Pita et al. (2017)
TinfSat38-315	N.D.	-	0.031	9.36	0.62		Pita et al. (2017)
TinfSat41-101	N.D.	-	0.006	2.34	0.67		Pita et al. (2017)
<b>TOTAL</b>	<b>38.078</b>		<b>26.891</b>				

N.D.: non detected