

Table S3. Results of NCBI GenBank database searches with 11 satDNAs of *T. molitor*.

	WGS insecta (4235 databases)				NCBI insecta nucleotide collection			
satDNA	Species	Order	Query cover (%)	Identity (%)	Species	Order	Query cover (%)	Identity (%)
TmSat1 (142 bp)	<i>Solenopsis invicta</i>	Hymenoptera	100	100	<i>Tenebrio obscurus</i>	Coleoptera	99	78.3
	<i>Periplaneta americana</i>	Blattodea	100	98.6				
	<i>Zophobas morio</i>	Coleoptera	100	100				
TmSat2 (180 bp)					<i>Camptogramma bilineata</i>	Lepidoptera	21	89.7
TmSat3 (325 bp)	<i>Phosphuga atrata</i>	Coleoptera	28	77.6	<i>Phosphuga atrata</i>	Coleoptera	29	78.7
	<i>Drosophila melanica</i>	Diptera	11	97.3	<i>Aelia acuminata</i>	Hemiptera	12	90.0
	<i>Drosophila micromelanica</i>	Diptera	10	100	<i>Bellardia bayeri</i>	Diptera	18	85.4
TmSat4 (245 bp)	<i>Podabrus alpinus</i>	Coleoptera	36	76.6	<i>Podabrus alpinus</i>	Coleoptera	64	75.5
	<i>Hydrotaea cyrtoneurina</i>	Diptera	24	91	<i>Cantharis rustica</i>	Coleoptera	25	90.0
					<i>Cantharis nigra</i>	Coleoptera	17	88.1
					<i>Cantharis rufa</i>	Coleoptera	17	88.1
					<i>Bemisia tabaci</i>	Hemiptera	15	89.5
					<i>Rhagonycha fulva</i>	Coleoptera	17	88.1
					<i>Hydrotaea cyrtoneurina</i>	Diptera	25	88.0
					<i>Salpingus planirostris</i>	Coleoptera	11	100
					<i>Agonum fuliginosum</i>	Coleoptera	24	80.3
TmSat5 (364 bp)	<i>Neruda aoede</i>	Lepidoptera	17	83.1	<i>Miltochrista miniata</i>	Lepidoptera	11	88.4
					<i>Yponomeuta plumbellus</i>	Lepidoptera	10	89.5
TmSat6 (227 bp)	<i>Periplaneta americana</i>	Blattodea	95	93.5	<i>Melinaea menophilus</i>	Lepidoptera	17	92.7
					<i>Synanthedon formicaeformis</i>	Lepidoptera	22	82.7
					<i>Chloroclysta siterata</i>	Lepidoptera	19	84.4
					<i>Melinaea marsaeus rileyi</i>	Lepidoptera	16	89.7
TmSat7 (189 bp)	<i>Dinoponera quadriceps</i>	Hymenoptera	100	100				
	<i>Periplaneta americana</i>	Blattodea	88	97.1				

TmSat8 (735 bp)	<i>Zophobas atratus</i>	Coleoptera	18	82.3	<i>Dilophus febrilis</i>	Diptera	14	74.1
	<i>Tribolium madens</i>	Coleoptera	16	75.6	<i>Cantharis rustica</i>	Coleoptera	13	73.7
	<i>Tribolium freemani</i>	Coleoptera	13	73.9	<i>Acrobasis suavella</i>	Lepidoptera	12	74.2
	<i>Latheticus oryzae</i>	Coleoptera						
TmSat9 (108 bp)								
TmSat10 (150 bp)	<i>Zophobas atratus</i>	Coleoptera	56	85.7	<i>Tribolium freemani</i>	Coleoptera	54	76.8
	<i>Tribolium confusum</i>	Coleoptera	78	73.7	<i>Vespula vulgaris</i>	Hymenoptera	30	86.7
	<i>Tribolium freemani</i>	Coleoptera	54	76.8	<i>Vespula germanica</i>	Hymenoptera	30	86.7
	<i>Tribolium castaneum</i>	Coleoptera	54	76.8	<i>Perizoma affinitatum</i>	Lepidoptera	25	89.4
	<i>Latheticus oryzae</i>	Coleoptera	52	79.5	<i>Thymelicus sylvestris</i>	Lepidoptera	30	87.0
	<i>Cynaesus angustus</i>	Coleoptera	48	78.0	<i>Myopa testacea</i>	Diptera	35	83.0
					<i>Ligdia adustata</i>	Lepidoptera	25	89.5
TmSat11 (93 bp)								