

Additional file 3. Sequences classified by UPGM-VM method according to the reading sense indicated by the arrow in the circular tree. Deleted or truncated sequences are indicated by an asterisk (*).

Species	Accession numbers	Corresponding sequences
Macrosiphinimar DD34D		
1	gi984744883:140935-140721 strand-	*
2	gi984744980:13238-14654 strand+	*
3	gi984745316:3270-2865 strand-	*
4	gi984745505:879619-879165 strand-	*
5	gi320446981 NW003383590.1 Scaffold101:202225-201649 strand -	*
6	gi320388812 NW003403215.1 Scaffold19726:243-904 strand -	*
7	gi320446984 NW003383587.1 Scaffold 98:39716-40668 strand +	MITE1.1 sub1
8	gi320446985 NW003383586.1 Scaffold97:172262-173595 strand +	Apismar1.1
10	Scaffold938 :36419-37755 strand-	Mpmar1.1
11	Scaffold42 :437239-438574 strand-	
12	Scaffold26 :74179-75510 strand+	
13	Scaffold353:292415-290211 strand -	
14	Scaffold167:418817-420155 strand+	
15	Scaffold425:148657-149615 strand +	MITE1.3
16	gi984745178:34523-35477 strand+	*
17	gi320447035 NW003383536.1 Scaffold47:642566-643516 strand +	MITE1.1 sub1
18	Scaffold6:1582921..1583927 strand+	MITE1.3
19	gi320446957 NW003383614.1 Scaffold125:833628-834589 strand -	MITE1.1 sub1
20	Scaffold344:286764-288093 strand+	Mpmar1.1
21	Scaffold50:754375-755343 strand+	*
22	gi320446934 NW003383637.1 Scaffold 148:254344-255290 strand +	MITE1.1 sub1
23	gi320446899 NW003383672.1 Scaffold 183:345754-346918 strand +	
24	gi1006854094 LKEY01038001.1 Contig 38001:392-1605	
25	Rpmar33 (Filée et al. 2015)	
26	gi763991541 BBUO01005411.1 Contig06950:10342-11676	
27	gi641099433 JHQO01163363.1 ContigNC163363:6062-7386	
28	gi642862357 JJNS01041406.1 ContigNC41406:3310-4634	
29	Scaffold1103:23507-23906 strand+	*
30	gi984745202:272244-271837 strand-	*
31	gi984745488:452325-450979 strand-	Dnomar1.1
32	gi984745255:324638-325555 strand+	*
33	Scaffold131:48139-48677 strand-	*
34	gi320447046 NW003383525.1 Scaffold36 :908811-909602 strand -	*
35	gi320447034 NW003383537.1 Scaffold48:638002-638846 strand +	*
36	gi320446875 NW003383696.1 Scaffold207:537540-538487 strand -	*
37	gi984745157:267924-268872 strand+	*
38	gi984744390:37892-38851 strand+	*
39	gi320447089 NW003383510.1 Scaffold21:987841-988816 strand +	*
40	gi320446282 NW003384289.1 Scaffold800:146539-147106 strand -	MITE1.1 sub2
41	gi320446572 NW003383999.1 Scaffold510:194743-195684 strand +	
42	gi320446653 NW003383918.1 Scaffold429:453472-454426 strand +	
43	gi320446326 NW003384245.1 Scaffold756:48163-49727 strand +	
44	gi320447005 NW003383566.1 Scaffold77:451686-452577 strand +	
45	gi320442452 NW003388040.1 Scaffold4551:1640-2495 strand +	*
46	gi320446993 NW003383578.1 Scaffold89:934560-935876 strand +	*
47	gi984745245:252450-251151 strand-	Apismar1.2
48	gi459605371 APGL01021548.1 Seq01021608:13322-14422	Dnomar1.2
49	gi822390376 JHBY01085489.1 Contig85496: 109-1314	
50	gi642470880 JJNS01248885.1 ContigNC248885:1757-2877	
51	gi553813549 AYEL01086727.1 Contig347321:2028-3230	
52	gi496870061 AQHT01063015.1 Contig63076:4332-5534	
Himar-like elements DD34D		

53	<i>Aphis glycines</i>	GQ231493	
54	<i>Drosophila yakuba</i>	Dromar18 (Wallau et al. 2014)	
55	<i>Rhodnius prolixus</i>	Rpmar0 (Filée et al. 2015)	
56	<i>Bactrocera dorsalis</i>	AF346541	
57	<i>Diachasmimorpha longicaudata</i>	AY601748	
58	<i>Chrysoperla plorabunda</i>	L06041	
59	<i>Haematobia irritans</i>	U11642	
60	<i>Mantispa pulchella</i>	U11649	
61	<i>Bactrocera dorsalis</i>	AY601743	
Maibmar-like elements DD34D			
62	<i>Cancer pagurus</i>	AJ507245	
63	<i>Eriphia verrucosa</i>	AM906106	
64	<i>Thalamita possoinii</i>	AM906155	
65	<i>Pilumnus hirtellus</i>	AM906121	
66	<i>Xantho hydrophilus</i>	AM906156	
67	<i>Maia brachidactyla</i>	AJ507238	
Bytmar-like element DD34D			
68	<i>Alvinella caudata</i>	AJ496120	
69	<i>Ventiella sulfuris</i>	AJ507232	
70	<i>Perisesarma bidens</i>	AM906146	
71	<i>Bythograea thermydron</i>	AJ507219	
72	<i>Portunus pelagicus</i>	AM906137	
73	<i>Alvinella pompejana</i>	AJ496135	
Nosferatis DD34D			
74	<i>Rhodnius prolixus</i>	Rpmar13 (Filée et al. 2015)	
75		Rpmar9 (Filée et al. 2015)	
Dnomar-like element DD34D			
76	<i>Diuraphis noxia</i>	gi984735891:2467-2015 strand-	*
77		gi984745098:54676-56035 strand+	Dnomar3.1
78	<i>Myzus persicae</i>	Scaffold280:15925-14979 strand -	*
79		Scaffold220: 401477-402088 strand +	*
Hsmar2-like element DD34D			
80	<i>Portunus pelagicus</i>	AM906137	
81	<i>Alvinella pompejana</i>	AJ496135	
82	<i>Homo sapiens</i>	U49974	
83	<i>Lemur catta</i>	AC133072	
84	<i>Gorilla gorilla</i>	AC145402	
Batmar-like element DD34D			
85	<i>Diuraphis noxia</i>	gi984745342:336477-336902 strand+	*
86		gi984744928:23881-24312 strand+	*
87		gi984745420:365693-366623 strand+	*
88		gi984745311:440129-439207 strand-	*
89	<i>Acyrtosiphon pisum</i>	gi320447037 NW003383534.1 Scaffold45:158750-158202 strand-	*
90		gi320446899 NW003383672.1 Scaffold183:261886-261320 strand-	*
91	<i>Diuraphis noxia</i>	gi984744320:45892-45397 strand-	*
92		gi984744320:47738-47243 strand-	*
93	<i>Acyrtosiphon pisum</i>	gi320446184 NW003384387.1 Scaffold898 :36060-36989 strand -	*
94		gi320446473 NW003384098.1 Scaffold609:132371-133021 strand+	*
95		gi320438813 NW003391455.1 Scaffold7966:4139-4600 strand+	*
96		gi320446392 NW003384179.1 Scaffold690:96269-97548 strand -	Apismar2.2
97		gi320447011 NW003383560.1 Scaffold71:493658-494941 strand +	
98	gi320447000 NW003383571.1 Scaffold82:64692-64037 strand -	*	
99	<i>Heliconius melpomene</i>	gi378865014 CAEZ01008735.1 Contig7180001235928:24625-25792	
100	<i>Drosophila eugracilis</i>	gi449842783 AFPQ02005657.1 Contig5655:975265-976459	
101	<i>Neodiprion lecontei</i>	gi914279877 LGIB01001307.1 Scaffold1307:12116-13443	
102	<i>Lasius niger</i>	gi861599989 LBMM01019009.1:53-1374	
103	<i>Diuraphis noxia</i>	gi984745480:182128-183428 strand+	*
104		gi984745116:79279-80622 strand+	Dnomar2.2
105	<i>Agrilus planipennis</i>	gi648140536 JENH01008607.1 Contig8616:12243-13577	
106	<i>Diuraphis noxia</i>	gi984745529:295648-297002 strand+	Dnomar2.2

107	<i>Rhodnius prolixus</i>	Rpmar1 (Filée et al. 2015)	
108	<i>Dinoponera quadricaps</i>	gi938133368 JPHR01007292.1 Scaffold1145:2209123415	
109	<i>Copidosoma floridanum</i>	gi619889135 JBOX01069944.1 Contig69949:1149212815	
110	<i>Ceratitits capitata</i>	gi488305875 NW004523814.1 Contig13099:32902-34140	
111	<i>Drosophila ficusphila</i>	Dromar8 (Wallau et al. 2014)	
112	<i>Acyrtosiphon pisum</i>	gi320445628 NW003384943.1 Scaffold1454:8232- 8961 strand -	*
113		gi320445628 NW003384943.1 Scaffold1454:3454-4361 strand-	MITE2.1
114		gi320447015 NW003383556.1 Scaffold67:738385-739292 strand-	
115		gi320445203 NW003385294.1 Scaffold1805:8796-7866 strand-	
116		gi320446728 NW003383843.1 Scaffold354:173658-174753 strand -	*
117		gi320446952 NW003383619.1 Scaffold130:212179-213501 strand -	Apismar2.1
118	<i>Myzus persicae</i>	Scaffold544:202614-203522 strand+	MITE2.2
119		Scaffold166:292461-293374 strand+	
120		Scaffold6:1479795-1480706 strand+	
121	<i>Diuraphis noxia</i>	gi984744707:110647-111912 strand+	Dnomar2.1
122		gi984744972:124915-123590 strand-	
123	<i>Acyrtosiphon pisum</i>	gi320446088 NW003384483.1 Scaffold994:76058-76816 strand+	*
124	<i>Blattella germanica</i>	gi692674178 JPZV01249368.1 ContigNC249368:8211803	
125	<i>Trabutina mannipara</i>	gi1044319939 FKYK01006678.1 :1-1114	
126	<i>Camponotus floridanus</i>	gi304581076 AEAB01024585.1 Contig622:1601-2726	
127	<i>Trionymus perrisii</i>	gi1010807036 FIZV01000272.1 :504-1644	
128	<i>Trachymyrmex septentrionalis</i>	gi1006956206 LKEZ01022017.1 Contig22017:3294-4437	
129	<i>Homalodisca vitripennis</i>	gi642782498 JJNS01106073.1 ContigNC106073:3898-5039	
130	<i>Rhinolophus ferrumequinum</i>	AC157888	
131	<i>Wasmannia auropunctata</i>	gi780611046 XM011690486.1	
132	<i>Rhodnius prolixus</i>	Rpmar26 (Filée et al. 2015)	
133	<i>Carollia perspicillata</i>	AC148202	
Pacmar-like element DD34D			
134	<i>Pachygrapsus marmoratus</i>	AM231069	
135		AM231072	
136	<i>Portunus granulatus</i>	AM906131	
137	<i>Pachygrapsus marmoratus</i>	AM983536	
138	<i>Portunus granulatus</i>	AM906134	
139		AM906132	
140	<i>Thalamita possoinii</i>	AM906151	
141	<i>Paromola bathyalis</i>	AM906119	
142	<i>Perisesarma bidens</i>	AM906150	
143	<i>Atelecyclus undecimdentatus</i>	AM906092	
Other mariner elements DD34D			
144	<i>Papilio xuthus</i>	AB055185	
145	<i>Attacus atlas</i>	AB006464	
146	<i>Hyalophora cecropia</i>	M63844	
147	<i>Bombyx mori</i>	D88671	
148	<i>Antheraea yamamai</i>	AB247378	
149	<i>Antheraea mylitta</i>	AF126011	
150	<i>Homo sapiens</i>	EF517118	
151	<i>Apis mellifera</i>	AY155490	
152	<i>Forficula auricularia</i>	AY155492	
153	<i>Ceratitits capitata</i>	U76903	
154	<i>Caenorhabditis elegans</i>	U10438	
155	<i>Meloidogyne chiwoodi</i>	AJ437557	
156	<i>Caenorhabditis briggsae</i>	AC099767	
157	<i>Solenopsis invicta</i>	AF518170	
158	<i>Solenopsis saevissima</i>	AF518177	
159	<i>Myrmica ruginodis</i>	AY652423	
160	<i>Bombus terrestris</i>	AJ312712	
161	<i>Drosophila mauritiana</i>	M14653	
162		X78906	
163	<i>Drosophila simulans</i>	X89927	
164	<i>Mamestra brassicae</i>	AF465247	
165	<i>Messor bouvieri</i>	AJ781769	

166	<i>Mayetiola destructor</i>	gi30778846 AEGA01027875.1		
167		U24436		
168	<i>Rhynchosciara sp.</i>	GU442128		
Crmar2-like element DD41D				
169	<i>Acyrtosiphon pisum</i>	gi320446057 NW003384514.1 Scaffold1025:1012-1344 strand+	*	
170		gi320446057 NW003384514.1 Scaffold1025:2902-3244 strand+	*	
171		gi320401144 NW003399120.1 Scaffold15631:349-1 strand-	MITE4.1 sub1	
172		gi320447076 NW003383518.1 Scaffold29:1329370-1329000 strand-		
173		gi320446843 NW003383728.1 Scaffold239:535418-535797 strand+		
174		gi320446434 NW003384137.1 Scaffold648:49392-49775 strand-		
175		gi320446106 NW003384465.1 Scaffold976:179217-179591 strand+		
176		gi320446648 NW003383923.1 Scaffold434:173770-174148 strand+		
177		gi320446083 NW003384488.1 Scaffold999:5967-6345 strand+		
178		gi320447199 NW003383491.1 Scaffold2:2053341-2053729 strand+		
179		gi320447197 NW003383492.1 Scaffold3:641055-641464 strand -		*
180		gi320446904 NW003383667.1 Scaffold178:3884-4294 strand -		*
181		gi320441128 NW003389140.1 Scaffold5651:1032-1552 strand -	*	
182	gi320447041 NW003383530.1 Scaffold41:488837-490191 strand -	Apismar4.1		
183	<i>Diuraphis noxia</i>	gi984744291:33825-34544 strand+	*	
184		gi984744522:27562-28176 strand+	*	
185		gi984745358:548730-549307 strand+	MITE4.2	
186		gi984745382:435077-434500 strand-		
187	<i>Acyrtosiphon pisum</i>	gi320447027 NW003383544.1 Scaffold55:451821-452338 strand+	*	
188		gi320446929 NW003383642.1 Scaffold153:555302-554950 strand-	MITE4.1 sub2	
189		gi320446959 NW003383612.1 Scaffold123:513503-513873 strand+		
190		gi320446812 NW003383759.1 Scaffold270:349975-349604 strand-		
191		gi320445944 NW003384627.1 Scaffold1138:18647-18271 strand-		
192	<i>Locusta migratoria</i>	AVCP010119604.1		
193	<i>Mesobuthus martensii</i>	gi553824729 AYEL01075810.1 Contig333646:1103812150		
194	<i>Stegodyphus mimosarum</i>	gi602493518 AZAQ01086514.1 Contig86514:26900-28235		
195	<i>Acyrtosiphon pisum</i>	gi320446734 NW003383837.1 Scaffold348:294674-294127 strand-	*	
196		gi320445699 NW003384872.1 Scaffold1383:15032-14708 strand-	*	
197		gi320447104 NW003383505.1 Scaffold16 :729100-731500 strand+	Apismar4.3	
198	<i>Diuraphis noxia</i>	gi984745081:151016-151527 strand+	*	
199		gi984745384:382222-382755 strand+	*	
200		gi984745429:267344-266809 strand-	*	
201		gi984745389:349961-349421 strand-	*	
202		gi984745380:533248-533974 strand+	*	
203		gi984745519:793804-794330 strand+	*	
204		gi984745503:728303-727753 strand-	*	
205		<i>Nilaparvata lugens</i>	gi688034042 AOSB01116314.1 Scaffold930:1140012616	
206	<i>Heliconius melpomene</i>	KU514436.1 GI:974707777 32163-33486		
207	<i>Acromyrmex echinator</i>	XM011050935.1		
208	<i>Acyrtosiphon pisum</i>	gi320446279 NW003384292.1 Scaffold803:93845-94145 strand+	*	
209		gi320445889 NW003384682.1 Scaffold1193:81099-81559 strand -	*	
210		gi320446954 NW003383617.1 Scaffold128:616437-616899 strand-	*	
211		gi320447044 NW003383527.1 Scaffold38:870577-871352 strand-	*	
212		gi320446184 NW003384387.1 Scaffold898:33860-34319 strand+	*	
213		gi320447097 NW003383508.1 Scaffold19:246121-246683 strand+	*	
214		gi320446974 NW003383597.1 Scaffold108:252404-252965 strand-	*	
215		gi320447085 NW003383512.1 Scaffold23:1752408-1753706 strand-	Apismar4.2	
216		gi320447044 NW003383527.1 Scaffold38:871366-871812 strand+	*	
217		<i>Atta cephalotes</i>	gi295962919 ADTU01003898.1 Contig03898:64257703	
218	<i>Trachymyrmex cornetzi</i>	gi1006767341 LKEY01058653.1 Contig58653:2926-4236		
219	<i>Atta colombica</i>	gi1006787365 LKEW01025605.1 Contig25605:1490716198		
220	<i>Danaus plexippus</i>	gi357604284 AGBW01012371.1 :21719-22917		
221	<i>Dufourea novaeangliae</i>	gi919891211 LGHO01003380.1 Contig3380:23632-24843		
222	<i>Harpegnathos saltator</i>	gi304616639 AEAC01015863.1 Contig6619:7536976586		
223	<i>Anoplophora glabripennis</i>	gi496927062 AQHT01044136.1 Contig44173:546-1789		
224	<i>Anastrepha suspensa</i>	AY034629		
225		AY034630		
226	<i>Operophtera brumata</i>	gi914552887 JTDY01008752.1 2357-3647		

227	<i>Ceratitis rosa</i>	AY034623		
228	<i>Homalodisca vitripennis</i>	gi642494493 JJNS01240973.1 ContigNC240973:3989-5223		
229	<i>Anoplophora glabripennis</i>	gi496912294 AQHT01049420.1 Contig49462:67688047		
230	<i>Dendroctonus ponderosae</i>	gi459588353 APGL01038566.1		
231	<i>Acyrtosiphon pisum</i>	gi320446058 NW003384513.1 Scaffold1024:28892-29972 strand-	*	
232		gi320446789 NW003383782.1 Scaffold293:337514-338606 strand +	*	
233	<i>Metaseiulus occidentalis</i>	gi391326941 XM003737920.1		
LTIR-like element DD40-41D				
234	<i>Acyrtosiphon pisum</i>	gi320446742 NW003383829.1 Scaffold340:1803-2145 strand+	*	
235		gi320446952 NW003383619.1 Scaffold130:17385-18186 strand+	*	
236		gi320442315 NW003388177.1 Scaffold4688:7007-6080 strand-	*	
237		gi320446920 NW003383651.1 Scaffold162:358972-359636 strand+	*	
238		gi320447020 NW003383551.1 Scaffold62:504081-503547 strand-	*	
239		gi320447044 NW003383527.1 Scaffold38:494414-493847 strand-	*	
240		gi320447038 NW003383533.1 Scaffold44:245172-244580 strand-	*	
241		gi320442393 NW003388099.1 Scaffold4610:542-1295 strand+	*	
242		gi320433456 NW003396117.1 Scaffold12628:816-1 strand-	*	
243		gi320446328 NW003384243.1 Scaffold754:22810-24151 strand+	*	
244		gi320446852 NW003383719.1 Scaffold230:461388-461756 strand+	*	
245		gi320447106 NW003383503.1 Scaffold14:910161-909675 strand-	*	
246		gi320447031 NW003383540.1 Scaffold51:481283-479084 strand-	*	
247		gi320446462 NW003384109.1 Scaffold620:170760-168538 strand-	*	
248		gi320447015 NW003383556.1 Scaffold67:301784-299478 strand-	Apismar5.1	
249		<i>Myzus persicae</i>	Scaffold228: 352709..353122 strand+	*
250			Scaffold16:1450072-1450945 strand+	*
251			Scaffold176:395279-395722 strand+	*
252	Scaffold10:1542469-1543323 strand-		*	
253	<i>Diuraphis noxia</i>	gi984745065:239246-238443 strand-	MITE5.1	
254		gi984745517:765990-765175 strand-		
255		gi984745390:259040-259829 strand+		
256		gi984745032:193491-194325 strand+	*	
257		gi984745175:253583-254179 strand+	*	
258		gi984745400:243420-244241 strand+	MITE5.1	
259	gi984745050:86317-85518 strand-			
260	gi984745081:249492-250419 strand+	*		
261	<i>Acyrtosiphon pisum</i>	gi320446972 NW003383599.1 Scaffold110:354919-355343 strand+	*	
262		gi320447020 NW003383551.1 Scaffold62:503547-504119 strand+	*	
263		gi320446800 NW003383771.1 Scaffold282:207301-208570 strand+	*	
264		gi320446154 NW003384417.1 Scaffold928:21356-19996 strand-	*	
265		gi320446987 NW003383584.1 Scaffold95:302694-301750 strand-	*	
266		gi320447105 NW003383504.1 Scaffold15:1038009-1036576 strand-	*	
267	<i>Diuraphis noxia</i>	gi984745508:982719-984070 strand+	*	
268	<i>Acyrtosiphon pisum</i>	gi320447008 NW003383563.1 Scaffold74:94584-96017 strand+	*	
269		gi320442315 NW003388177.1 Scaffold4688:6080-7007 strand+	*	
270		gi320446319 NW003384252.1 Scaffold763:18048-18455 strand+	*	
271		gi320447082 NW003383514.1 Scaffold25:979065-978002 strand-	*	
272		gi320446163 NW003384408.1 Scaffold919:2730-3812 strand-	*	
273		gi320447077 NW003383517.1 Scaffold28:658930-658046 strand-	*	
274		gi320447191 NW003383495.1 Scaffold6:867979-866906 strand-	*	
275		<i>Myzus persicae</i>	Scaffold1040:29624-30705 strand+	*
276	Scaffold1981:5634-7149 strand+		*	
277	<i>Acyrtosiphon pisum</i>	gi320446879 NW003383692.1 Scaffold203:311633-311055 strand-	*	
278		gi320447177 NW003383497.1 Scaffold8:947336-948127 strand+	*	
279		gi320446579 NW003383992.1 Scaffold503:316494-315441 strand-	*	
280	<i>Diuraphis noxia</i>	gi984745469:593111-591544 strand-	*	
281	<i>Acyrtosiphon pisum</i>	gi320447082 NW003383514.1 Scaffold25:163596-162726 strand-	*	
282		gi320434094 NW003395907.1 Scaffold12418:13-883 strand+	*	
283		gi320392825 NW003401900.1 Scaffold18411:6357-5063 strand-	*	
284	<i>Bombus terrestris</i>	gi339751187 AELG01000709: 6387911-6385650		
285	<i>Nasonia vitripennis</i>	gi154053393:26728-27797		
286	<i>Harpegnathos saltator</i>	NW011646526.1 Scaffold1231:24830-28107		
287	<i>Pogonomyrmex barbatus</i>	NW011933482.1 Scaffold7180000350099:45895-49565		

288	<i>Calycoptis cecrops</i>	LUGF01035226.1	
289	<i>Cimex lectularius</i>	JRLE01000220.1 Scaffold310843	
290	<i>Rhodnius prolixus</i>	KQ034065 Scaffold9:2936024-2933697	
291	<i>Anoplophora glabripennis</i>	gi496979286 AQHT01025496.1 Contig25506:11686-12762	
292	<i>Homalodisca vitripennis</i>	KK962044.1 Scaffold551:1019188-1021387	
293	<i>Megachile rotundata</i>	gi383080544 Scaffold0130:560690-562464	
294	<i>Acyrtosiphon pisum</i>	gi320447045 NW003383526.1 Scaffold37:902476-902066 strand+	MITE5.2 sub1
295		gi320446511 NW003384060.1 Scaffold571:438535-438949 strand+	
296		gi320446471 NW003384100.1 Scaffold611:61351-61779 strand+	
297		gi320446667 NW003383904.1 Scaffold415:160458-160887 strand+	MITE5.2 sub2
298		gi320446129 NW003384442.1 Scaffold953:162133-162549 strand+	
299		gi320446884 NW003383687.1 Scaffold198:591126-591545 strand+	
300		gi320446815 NW003383756.1 Scaffold267:153990-154430 strand+	
301		gi320447083 NW003383513.1 Scaffold24:949317-949750 strand+	*
302		gi320447001 NW003383570.1 Scaffold81:754854-757276 strand+	Apismar5.2
303		gi320446306 NW003384265.1 Scaffold776:57772-58831 strand+	*
304		gi320446984 NW003383587.1 Scaffold98:28691-29172 strand+	*
305		gi320446449 NW003384122.1 Scaffold633:131583-130926 strand-	*
306		gi320446999 NW003383572.1 Scaffold83:210237-208812 strand-	*
307		gi320446763 NW003383808.1 Scaffold319:416807-419008 strand+	*
maT DD37D			
308	<i>Caenorhabditis elegans</i>	AF038612	
309		Z83129	
310	<i>Caenorhabditis briggsae</i>	AC084524	
311	<i>Bombyx mori</i>	U43131	
312	<i>Anopheles gambiae</i>	AAAB01008975	
Outgroup TLE and IS630			
313	<i>Fusarium oxysporum</i>	AF282722	
314	<i>Caenorhabditis briggsae</i>	M64308	
315	<i>Drosophila virilis</i>	CH940657	
316	<i>Salmo salar</i>	AJ249090	
317	<i>Anopheles gambiae</i>	U89802	
318	<i>Aedes aegypti</i>	AF208675	
319	<i>Caenorhabditis elegans</i>	M77697	
320	<i>Aedes atropalpus</i>	AY038027	
321	<i>Fusarium oxysporum</i>	AF076632	
322	<i>Fusarium solani</i>	AF443562	
323	<i>Fusarium oxysporum</i>	AF076631	
324		AJ608703	
325	<i>Aspergillus niger</i>	U58946	
326	<i>Sinorhizobium meliloti</i>	AF143444	
327	<i>Pseudomonas sp.</i>	U15298.1	
328	<i>Catharanthus roseus</i>	DQ852611	
329	<i>Salmonella typhimurium</i>	M58505	