

Complete TE Proteome Detected By PIT in Aag2 Cells.

Class	Order/Subclass	Clade/Superfamily	Element	ORF	TEfam ID	Mosquito*	PIT AA Length	Query Cover	Identity	Trinity ID
Class I	LTR	BEL	Ele1	gag	TF000042	<i>Ae. aegypti</i>	811	99%	48%	402
			Ele1	gag	TF000042	<i>Ae. aegypti</i>	1269	76%	42%	955
			Ele1	gag	TF000042	<i>Ae. aegypti</i>	1933	84%	44%	956
			Ele10	gag	TF000092	<i>Ae. aegypti</i>	815	99%	44%	2271
			<b>Ele10</b>	<b>gag</b>	<b>TF000092</b>	<b><i>Ae. aegypti</i></b>	<b>1168</b>	<b>99%</b>	<b>33%</b>	<b>3264</b>
			Ele10	gag	TF000092	<i>Ae. aegypti</i>	949	99%	48%	4868
			Ele10	gag	TF000092	<i>Ae. aegypti</i>	767	99%	47%	4869
			Ele45	gag	TF000244	<i>Ae. aegypti</i>	69	89%	68%	6477
			Ele77	pol	TF000260	<i>Ae. aegypti</i>	104	99%	85%	9231
			Ele97	gag	TF000270	<i>Ae. aegypti</i>	161	100%	90%	4488
			Ele23	gag	TF000278	<i>Ae. aegypti</i>	336	99%	83%	3203
			Ele121	gag	TF000282	<i>Ae. aegypti</i>	812	71%	65%	7201
			Ele147	gag	TF000295	<i>Ae. aegypti</i>	444	99%	72%	5203
			Ele147	gag	TF000295	<i>Ae. aegypti</i>	207	100%	76%	9023
			Ele153	gag	TF000298	<i>Ae. aegypti</i>	83	100%	100%	8309
			<b>Ele181</b>	<b>gag</b>	<b>TF000313</b>	<b><i>Ae. aegypti</i></b>	<b>104</b>	<b>100%</b>	<b>64%</b>	<b>3381</b>
			Ele24	gag	TF000326	<i>Ae. aegypti</i>	177	100%	69%	4222
			Ele26	gag	TF000327	<i>Ae. aegypti</i>	357	97%	72%	3396
			Ele34	gag	TF000332	<i>Ae. aegypti</i>	139	99%	80%	4720
			Ele227	gag	TF000507	<i>Ae. aegypti</i>	73	100%	100%	9160
Ele84	gag	TF000514	<i>Ae. aegypti</i>	196	100%	60%	5873			

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Class I	LTR	BEL	Ele86	gag	TF000515	<i>Ae. aegypti</i>	88	100%	53%	5754			
			Ele90	gag	TF000517	<i>Ae. aegypti</i>	572	99%	48%	5158			
			Ele226	gag	TF000777	<i>Ae. aegypti</i>	267	100%	87%	8358			
			Ele220	gag	TF000788	<i>Ae. aegypti</i>	83	93%	38%	1400			
			Ele204	gag	TF000800	<i>Ae. aegypti</i>	80	93%	57%	6338			
			Ele24	gag	TF003410	<i>An. gambiae</i>	286	97%	58%	5038			
			<b>Ele24</b>	<b>gag</b>	<b>TF001456</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>435</b>	<b>95%</b>	<b>62%</b>	<b>5543</b>			
			Ele24	gag	TF001456	<i>Cx. quinquefasciatus</i>	154	95%	48%	6976			
			Ele24	gag	TF001456	<i>Cx. quinquefasciatus</i>	388	100%	74%	7002			
			<b>Ele23</b>	<b>gag</b>	<b>TF001470</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>778</b>	<b>95%</b>	<b>43%</b>	<b>6977</b>			
			Ele51	gag	TF001550	<i>Cx. quinquefasciatus</i>	116	82%	38%	4423			
			Ele68	gag	TF001567	<i>Cx. quinquefasciatus</i>	202	99%	65%	6696			
			Ele68	gag	TF001567	<i>Cx. quinquefasciatus</i>	149	100%	77%	7991			
					Ty1/copia	<b>Ele1</b>	<b>pol</b>	<b>TF000130</b>	<b><i>Ae. aegypti</i></b>	<b>1176</b>	<b>81%</b>	<b>42%</b>	<b>2155</b>
						Ele39	gag	TF000661	<i>Ae. aegypti</i>	689	94%	99%	3822
			Ele188	gag	TF001077	<i>Ae. aegypti</i>	774	69%	62%	6729			
			Ele2	gag	TF003443	<i>An. gambiae</i>	88	100%	69%	6307			
			Ele4	gag	TF003445	<i>An. gambiae</i>	108	76%	75%	4632			
			Ele8	gag	TF003449	<i>An. gambiae</i>	139	94%	70%	5994			
			Ele12	gag	TF003453	<i>An. gambiae</i>	115	100%	63%	192			
			Ele12	gag	TF003453	<i>An. gambiae</i>	249	97%	73%	2237			

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Class I	LTR	Ty1/copia	Ele8	gag	TF001523	<i>Cx. quinquefasciatus</i>	155	94%	53%	4022			
			Ele9	gag	TF001524	<i>Cx. quinquefasciatus</i>	110	92%	82%	2080			
			Ele9	gag	TF001524	<i>Cx. quinquefasciatus</i>	114	57%	41%	5800			
			Ele9	gag	TF001524	<i>Cx. quinquefasciatus</i>	121	99%	63%	8491			
			Ele14	gag	TF001529	<i>Cx. quinquefasciatus</i>	118	98%	59%	6400			
			Ele17	gag	TF001581	<i>Cx. quinquefasciatus</i>	162	85%	65%	4571			
			Ele18	gag	TF001582	<i>Cx. quinquefasciatus</i>	526	99%	47%	4431			
			<b>Ele19</b>	<b>gag</b>	<b>TF001583</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>276</b>	<b>85%</b>	<b>43%</b>	<b>3370</b>			
			Ele26	gag	TF001590	<i>Cx. quinquefasciatus</i>	444	96%	61%	298			
			Ele32	gag	TF001594	<i>Cx. quinquefasciatus</i>	195	82%	72%	6132			
			Ele32	gag	TF001594	<i>Cx. quinquefasciatus</i>	122	71%	69%	6133			
			Ele34	gag	TF001596	<i>Cx. quinquefasciatus</i>	294	99%	55%	8976			
					Ty3/gypsy	Ele7	pol	TF000099	<i>Ae. aegypti</i>	134	100%	99%	8866
						Ele19	gag	TF000110	<i>Ae. aegypti</i>	125	100%	100%	2793
			Ele26	gag	TF000117	<i>Ae. aegypti</i>	206	92%	98%	4178			
			<b>Ele26</b>	<b>gag</b>	<b>TF000117</b>	<b><i>Ae. aegypti</i></b>	<b>1428</b>	<b>74%</b>	<b>35%</b>	<b>6210</b>			
			<b>Ele26</b>	<b>gag</b>	<b>TF000117</b>	<b><i>Ae. aegypti</i></b>	<b>1298</b>	<b>93%</b>	<b>35%</b>	<b>8288</b>			
			<b>Ele28</b>	<b>gag</b>	<b>TF000119</b>	<b><i>Ae. aegypti</i></b>	<b>115</b>	<b>84%</b>	<b>39%</b>	<b>1383</b>			
			<b>Ele28</b>	<b>gag</b>	<b>TF000119</b>	<b><i>Ae. aegypti</i></b>	<b>174</b>	<b>89%</b>	<b>43%</b>	<b>452</b>			
			Ele29	gag	TF000120	<i>Ae. aegypti</i>	350	89%	46%	7939			
			Ele30	pol	TF000121	<i>Ae. aegypti</i>	497	99%	59%	2218			

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Class I	LTR	Ty3/gypsy	Ele32	gag	TF000123	<i>Ae. aegypti</i>	202	94%	77%	3616
			Ele33	pol	TF000124	<i>Ae. aegypti</i>	199	96%	69%	4176
			<b>Ele40</b>	<b>gag</b>	<b>TF000135</b>	<b><i>Ae. aegypti</i></b>	<b>338</b>	<b>100%</b>	<b>100%</b>	<b>5565</b>
			Ele43	pol	TF000138	<i>Ae. aegypti</i>	86	86%	65%	2550
			Ele50	'env'	TF000145	<i>Ae. aegypti</i>	242	100%	97%	4625
			Ele50	'env'	TF000145	<i>Ae. aegypti</i>	137	100%	85%	4626
			Ele54	'env'	TF000317	<i>Ae. aegypti</i>	533	100%	99%	7261
			Ele55	'env'	TF000318	<i>Ae. aegypti</i>	250	100%	99%	2813
			Ele65	gag	TF000337	<i>Ae. aegypti</i>	463	100%	53%	6239
			Ele68	gag	TF000340	<i>Ae. aegypti</i>	409	99%	66%	4711
			Ele69	gag	TF000341	<i>Ae. aegypti</i>	468	97%	98%	3730
			Ele83	gag	TF000368	<i>Ae. aegypti</i>	85	98%	54%	4772
			Ele84	'env'	TF000369	<i>Ae. aegypti</i>	192	80%	62%	4205
			<b>Ele97</b>	<b>gag</b>	<b>TF000379</b>	<b><i>Ae. aegypti</i></b>	<b>751</b>	<b>99%</b>	<b>44%</b>	<b>2546</b>
			Ele98	pol	TF000380	<i>Ae. aegypti</i>	205	98%	57%	6938
			Ele101	gag	TF000382	<i>Ae. aegypti</i>	80	100%	96%	5479
			Ele104	pol	TF000385	<i>Ae. aegypti</i>	492	100%	99%	5488
			Ele107	gag	TF000388	<i>Ae. aegypti</i>	212	99%	46%	8265
			Ele113	gag	TF000413	<i>Ae. aegypti</i>	73	100%	89%	5360
			Ele120	gag	TF000417	<i>Ae. aegypti</i>	78	83%	45%	6629
Ele121	'env'	TF000418	<i>Ae. aegypti</i>	107	80%	48%	5210			

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Class I	LTR	Ty3/gypsy	Ele122	'env'	TF000419	<i>Ae. aegypti</i>	102	100%	100%	8311			
			Ele154	gag	TF000540	<i>Ae. aegypti</i>	282	100%	99%	656			
			Ele156	gag	TF000542	<i>Ae. aegypti</i>	310	99%	55%	8637			
			Ele158	pol	TF000544	<i>Ae. aegypti</i>	141	100%	77%	7310			
			Ele158	pol	TF000544	<i>Ae. aegypti</i>	237	100%	80%	7311			
			Ele190	gag	TF000932	<i>Ae. aegypti</i>	287	78%	67%	2732			
			Ele183	pol	TF000936	<i>Ae. aegypti</i>	98	97%	59%	2091			
			Ele178	pol	TF000940	<i>Ae. aegypti</i>	110	100%	66%	2436			
			Ele10	pol	TF002594	<i>An. arabiensis</i>	290	94%	50%	6559			
			Ele50	gag	TF003509	<i>An. gambiae</i>	138	55%	57%	9384			
			<b>Ele6</b>	<b>gag</b>	<b>TF002676</b>	<b><i>An. stephensi</i></b>	<b>728</b>	<b>100%</b>	<b>57%</b>	<b>724</b>			
			Ele20	gag	TF001499	<i>Cx. quinquefasciatus</i>	451	93%	43%	8125			
			<b>Ele22</b>	<b>gag</b>	<b>TF001500</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>359</b>	<b>65%</b>	<b>35%</b>	<b>2678</b>			
			Ele22	gag	TF001500	<i>Cx. quinquefasciatus</i>	87	100%	64%	9423			
			Ele23	gag	TF001503	<i>Cx. quinquefasciatus</i>	129	93%	71%	8790			
			<b>Ele40</b>	<b>gag</b>	<b>TF001597</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>677</b>	<b>100%</b>	<b>49%</b>	<b>1630</b>			
			Ele59	gag	TF001606	<i>Cx. quinquefasciatus</i>	69	60%	43%	5794			
			Ele50	pol	TF001609	<i>Cx. quinquefasciatus</i>	131	100%	74%	3989			
				Non-LTR	CR1	Ele18	ORF2	TF002960	<i>An. dirus</i>	104	94%	39%	3859
						Ele6	ORF2	TF002797	<i>An. epiroticus</i>	114	95%	35%	3922
			Ele3	ORF1	TF001345	<i>An. gambiae</i>	193	89%	32%	1306			

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Class I	Non-LTR	CR1		ORF2	TF001349	<i>An. gambiae</i>	579	98%	47%	5304
			Ele1	ORF2	TF003184	<i>An. merus</i>	77	88%	53%	4275
			Ele16	ORF2	TF003213	<i>An. merus</i>	137	99%	47%	4445
			Ele24	ORF2	TF003221	<i>An. merus</i>	561	95%	38%	3559
		I factor	Ele1	ORF2	TF000020	<i>Ae. aegypti</i>	116	100%	60%	2555
			Ele1	ORF2	TF000020	<i>Ae. aegypti</i>	188	96%	30%	3042
			Ele1	ORF2	TF000020	<i>Ae. aegypti</i>	213	97%	30%	4861
		Jockey	Ele1	ORF2	TF000019	<i>Ae. aegypti</i>	450	100%	99%	4096
			Ele3	ORF2	TF000069	<i>Ae. aegypti</i>	78	91%	54%	1382
			Ele3	ORF2	TF000069	<i>Ae. aegypti</i>	303	98%	57%	8938
		L1	Ele5	ORF1	TF000086	<i>An. gambiae</i>	149	82%	42%	2159
			Ele2	ORF2	TF001353	<i>An. gambiae</i>	134	94%	52%	908
			Ele4	ORF2	TF003258	<i>An. merus</i>	223	99%	38%	4791
		LOA	Ele1	ORF1	TF000021	<i>Ae. aegypti</i>	196	97%	39%	5533
			Ele1	ORF1	TF000021	<i>Ae. aegypti</i>	252	99%	35%	6238
		Loner	Ele2	ORF2	TF003111	<i>An. funestus</i>	78	98%	62%	7445
			Ele3	ORF2	TF003112	<i>An. funestus</i>	82	90%	47%	2728
		Outcast	Ele5	ORF2	TF002548	<i>An. arabiensis</i>	146	69%	39%	4721
			Ele6	ORF2	TF000083	<i>An. gambiae</i>	126	84%	38%	4873
			Ele4	ORF2	TF003267	<i>An. merus</i>	294	98%	44%	314
		R1	Ele5	ORF2	TF002830	<i>An. epiroticus</i>	114	76%	46%	1402

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Class I	Non-LTR	R4	Ele1	ORF1	TF000040	<i>Ae. aegypti</i>	82	95%	99%	6342
		RTE	Ele3	ORF2	TF002839	<i>An. epiroticus</i>	97	100%	59%	4841
			Ele2	ORF1	TF001352	<i>An. gambiae</i>	63	53%	38%	9463
Class II	Cut and Paste	hAT	Ele8	ORF1	TF001635	<i>Cx. quinquefasciatus</i>	234	96%	37%	6151
		Mutator	1.1	ORF1	TF001628	<i>Cx. quinquefasciatus</i>	398	92%	32%	4663
		Tc1-Mariner	<b>Ele3</b>	<b>ORF1</b>	<b>TF001534</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>159</b>	<b>93%</b>	<b>33%</b>	<b>5639</b>
			Ele3	ORF1	TF001534	<i>Cx. quinquefasciatus</i>	82	100%	78%	5750
			<b>Ele7</b>	<b>ORF1</b>	<b>TF001538</b>	<b><i>Cx. quinquefasciatus</i></b>	<b>195</b>	<b>52%</b>	<b>31%</b>	<b>3084</b>
			Ele7	ORF1	TF001538	<i>Cx. quinquefasciatus</i>	79	91%	40%	6452
			Ele7	ORF1	TF001538	<i>Cx. quinquefasciatus</i>	87	95%	54%	6680
	Ele1	ORF1	TF001539	<i>Cx. quinquefasciatus</i>	207	99%	73%	6526		

\* Mosquito genome in which TEfam element was originally described.

Bold typeface indicates Trinity transcripts associated with two or more peptides.