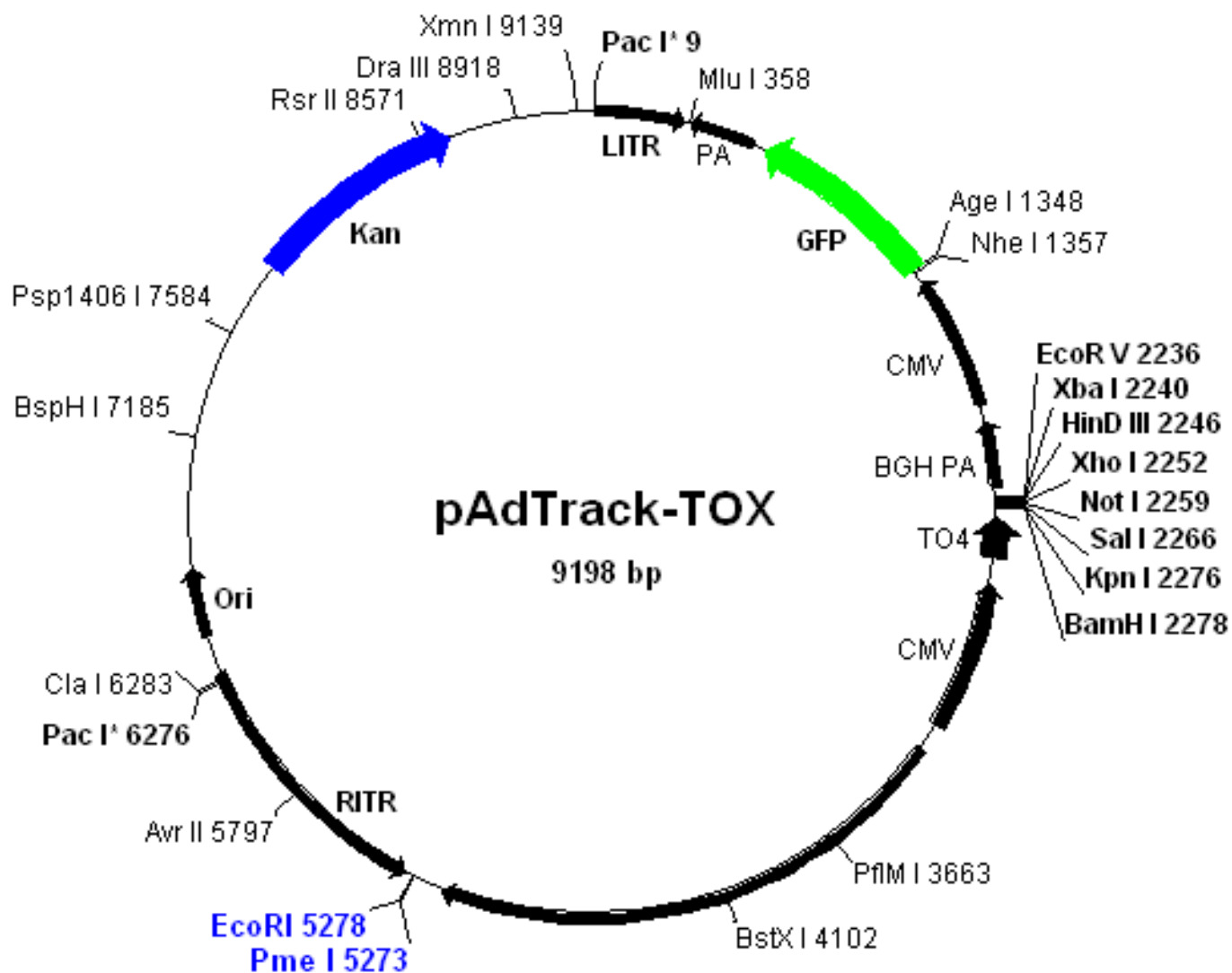


Vector: pAdTrack-TOX (adenoviral shuttle vector w/ one EcoR I for possible linearization)

Antibiotic Selection: Kan

Creator(s): Qing Luo, Molecular Oncology Lab of The University of Chicago

Date of Construction: September 11, 2009



pAdTrack-TOX Vector Sequence

NNNNTTAATTAANNNTCCCTTCCAGCTCTCTGCCCTTTTGGATTGAAGCCAATATGATAA 60
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NNNNNNNNNNNNNNNN 9194

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Unique enzymes in pAdTrack-TOX:

Mlu I	A`CGCG,T	358
Hpa I	GTT AAC	485
Age I	A`CCGG,T	1348
Nhe I	G`CTAG,C	1357
EcoR V	GAT ATC	2236
HinD III	A`AGCT,T	2246
PaeR7 I	C`TCGA,G	2252
Xho I	C`TCGA,G	2252
Not I	GC`GGCC,GC	2259
Sal I	G`TCGA,C	2266
Acc65 I	G`GTAC,C	2272
Asp718	G`GTAC,C	2272
Kpn I	G,GTAC`C	2276
BamH I	G`GATC,C	2278
PflM I	CCAN,NNN`NTGG	3663
BstX I	CCAN,NNNN`NTGG	4102
Bst1107 I	GTA TAC	5258
Xca I	GTA TAC	5258
Pme I	CTTT AAAC	5273
EcoR I	G`AATT,C	5278
Avr II	C`CTAG,G	5797
Cla I	AT`CG,AT	6283
BspH I	T`CATG,A	7185
Psp1406 I	AA`CG,TT	7584
Rsr II	CG`GWC,CG	8571
Dra III	CAC,NNN`GTG	8918

Number of enzymes = 26

The following enzymes do not cut in pAdTrack-TOX:

Afl II	Asc I	Blp I	BsiC I	BsiW I
BstB I	Bsu36 I	Eco72 I	EcoN I	Esp I
Fse I	Nru I	Pml I	Pvu I	Sca I
Sfi I	Spe I	Spl I	Srf I	Ssp I

pAdTrack-TOX: sites sorted by name:

Aat II	(8)	1509	1695	1778	1831
		2577	2763	2846	2899
Acc I	(3)	2267	4319	5257	
Acc65 I	(1)	2272			
Aci I	(122)	88	106	126	151
		233	243	294	658
		661	721	834	972
		1011	1078	1119	1361
		1422	1443	1547	1580
		1671	1838	1852	1864
		1892	1969	1993	2219
		2228	2258	2262	2490
		2511	2615	2648	2739
		2906	2920	2932	2960
		3090	3093	3096	3222
		3285	3288	3291	3300

		3312	3316	3318	3350	Bgl I	(10)	1672	1743	1865	2740
		3381	3385	3515	3604			2811	2933	3494	5545
		3622	3750	3868	4121			7478	9138		
		4124	4209	4213	4230	Bgl II	(3)	2388	2409	2430	
		4326	4406	4545	4562	Bpm I	(6)	657	897	2320	3178
		4620	4663	4724	4734			5806	7428		
		4970	4972	5014	5090	Bsa I	(5)	3242	3630	4606	5118
		5095	5104	5432	5704			7419			
		5818	5848	6023	6155	BsaA I	(7)	1612	2680	3893	6104
		6176	6194	6305	6331			7628	8359	8918	
		6348	6391	6398	6419	BsaB I	(7)	586	2372	2393	2414
		6510	6538	6665	6684			2435	3557	7914	
		6805	6915	7050	7059	BsaH I	(13)	1506	1692	1775	1828
		7421	7512	7642	7765			2331	2574	2760	2843
		7861	7964	8027	8121			2896	4058	5011	7807
		8185	8286	8289	8529			8055			
		8569	8574	8624	8640	BsaJ I	(39)	925	980	1004	1167
		8666	8808	8947	9062			1307	1337	1588	2143
		9089	9117					2656	3161	3168	3316
Afl III	(4)	158	358	5424	6465			3432	3612	3834	3846
Age I	(1)	1348						3958	4115	4128	4252
Aha II	(13)	1506	1692	1775	1828			4253	4350	4778	4794
		2331	2574	2760	2843			4865	4946	4970	4982
		2896	4058	5011	7807			5000	5075	5600	5687
		8055						5688	5797	6625	7660
Ahd I	(2)	3622	7358					7864	8218	8487	
Alu I	(48)	25	469	632	806	BsaW I	(11)	603	618	1348	2275
		917	965	1181	1214			3997	5384	5611	6671
		1286	1319	1386	2248			6818	7788	8086	
		2364	2454	3135	3368	BseR I	(4)	1311	4704	5020	5589
		3460	3740	3826	3876	Bsg I	(7)	792	1116	1213	3384
		4026	4368	4395	4465			3994	5049	5974	
		4471	4674	4994	5051	BsiE I	(9)	1349	2232	2262	3632
		5138	5382	5597	5921			5678	6381	6805	7964
		6407	6633	6723	6769			8951			
		7026	7547	7676	7729	BsiHKA I	(10)	734	2456	3107	3137
		7755	7801	7892	8161			4005	4765	5140	6783
		8619	8748	8966	9005			8168	8358		
Alw I	(29)	596	616	646	843	Bsm I	(4)	406	499	4087	5118
		1370	1950	2274	2285	BsmA I	(13)	1515	2337	2583	3243
		3473	3565	3764	4155			3267	3629	3713	4050
		4318	4696	6280	6287			4607	5117	5710	7420
		7027	7113	7113	7210			7898			
		7211	7611	7612	7875	BsmB I	(3)	2338	3714	4049	
		7892	7922	8233	8300	BsmF I	(11)	1454	1622	1773	2522
		8479						2690	2841	3629	4498
AlwN I	(7)	1958	3302	3460	3545			4651	5235	8206	
		5266	6881	7679		BsoF I	(71)	470	659	753	756
Apa I	(2)	4115	4421					807	814	1098	1120
ApaL I	(2)	4001	6779					1179	2229	2259	2262
Apo I	(7)	257	430	2291	4012			3084	3087	3090	3093
		5278	8720	8731				3096	3279	3288	3291
Ase I	(5)	5	3011	5753	6272			3300	3303	3306	3366
		7530						3458	3748	4122	4125
Asp718	(1)	2272						4393	4396	4409	4466
Ava I	(4)	2252	3432	3612	5687			4469	4472	4562	4735
Ava II	(8)	680	3616	3640	4665			4854	4905	4973	4992
		4806	4884	7496	8571			5014	5095	5303	5849
Avr II	(1)	5797						5852	6371	6389	6392
BamH I	(1)	2278						6510	6665	6808	6873
Ban I	(13)	1300	1483	2135	2272			6876	7082	7410	7861
		3798	4219	5010	5914			7964	8016	8027	8117
		7306	7806	8054	8089			8122	8159	8200	8287
		8955						8290	8293	8529	8625
Ban II	(10)	1990	2456	3137	3194			8666	8680	9098	
		3350	4115	4421	5140	Bsp120 I	(2)	4111	4417		
		8420	8993			Bsp1286 I	(2)	3107	8358		
Bbe I	(3)	5014	7810	8058		BspH I	(1)	7185			
Bbs I	(3)	2011	2293	4904		BspM I	(8)	3469	4331	4371	4691
Bbv I	(20)	764	767	1190	3095			5365	7713	7942	8323
		3098	3290	3317	3377						
		3469	4404	4420	4480	BspM II	(3)	618	5384	5611	
		5003	5863	6884	6887	Bsr I	(20)	729	1658	2726	3773
		7093	8128	8170	8691			4453	5568	5873	6872
		2012	2294	4905				6885	6999	7405	7523
Bbv II	(3)	2012	2294	4905				7566	7638	7683	7764
Bcl I	(3)	587	2213	7896				7848	7998	8199	8832
Bcn I	(19)	656	1310	3170	3434	BsrB I	(4)	5820	6398	8668	9062
		3435	3614	3615	3960	BsrD I	(3)	4113	7419	8288	
		4352	4442	4851	5077	BsrG I	(2)	207	626		
		5689	5690	6846	7542	BssH II	(5)	3598	3600	4856	4987
		7663	8060	8220				9119			
Bfa I	(14)	397	598	1358	1949	BssS I	(5)	1155	5017	5124	6638
		2193	2241	3018	5798			8647			
		6960	7213	7548	7614	Bst1107 I	(1)	5258			
		7756	9069			BstE II	(2)	4678	5567		

BstN I	(27)	927	981	1056	1168	Ear I	(3)	6349	8399	8609	
		1293	1668	1861	1959	Eco47 III	(4)	1356	3788	4903	5839
		2144	2338	2736	2929	Eco57 I	(9)	946	1143	1189	3280
		3658	3835	4129	4174			3511	4917	7012	8200
		4254	4660	4779	4866			8632			
		4932	5131	5163	6493	EcoO109 I	(4)	3640	3843	4806	5100
		6614	6627	8442		EcoR I	(1)	5278			
BstU I	(37)	88	231	233	294	EcoR II	(27)	925	979	1054	1166
		350	360	693	1011			1291	1666	1859	1957
		1892	2264	2960	3151			2142	2336	2734	2927
		3318	3387	3600	3602			3656	3833	4127	4172
		3604	4209	4724	4858			4252	4658	4777	4864
		4924	4972	4989	5059			4930	5129	5161	6491
		5092	5329	6029	6196			6612	6625	8440	
		6512	7093	7423	8121	EcoR V	(1)	2236			
		8422	8810	9102	9119	Ehe I	(3)	5012	7808	8056	
		9121				Fnu4H I	(71)	470	659	753	756
BstX I	(1)	4102						807	814	1098	1120
BstY I	(19)	600	609	836	1363			1179	2229	2259	2262
		1954	2278	2388	2409			3084	3087	3090	3093
		2430	3466	7106	7117			3096	3279	3288	3291
		7203	7215	7604	7616			3300	3303	3306	3366
		7868	8226	8472				3458	3748	4122	4125
Cac8 I	(59)	804	811	1135	1183			4393	4396	4409	4466
		1216	1359	1673	1866			4469	4472	4562	4735
		2006	2010	2187	2741			4854	4905	4973	4992
		2934	3155	3222	3316			5014	5095	5303	5849
		3350	3354	3358	3385			5852	6371	6389	6392
		3476	3600	3602	3824			6510	6665	6808	6873
		3842	4211	4559	4631			6876	7082	7410	7861
		4858	4862	4989	4996			7964	8016	8027	8117
		5099	5546	5708	6027			8122	8159	8200	8287
		6396	6482	6519	7079			8290	8293	8529	8625
		7470	7707	7731	7782			8666	8680	9098	
		7799	7949	8135	8354	Fok I	(21)	184	258	942	1308
		8420	8426	8454	8458			1982	2339	3364	3694
		8499	8503	8557	9021			3893	4189	4231	4465
		9064	9078	9121				5073	7324	7505	7677
Cfr10 I	(11)	202	1185	1348	4411			7860	7922	8379	8404
		4907	5213	5544	7438			8768			
		8374	8555	9019							
						Fsp I	(2)	7580	8157		
Cla I	(1)	6283				Gdi II	(13)	876	1263	2228	2230
Csp6 I	(18)	208	627	909	1411			2258	2260	4929	5141
		1568	1619	1652	1707			5538	7960	7962	8525
		1732	2273	2479	2636			8552			
		2687	2720	2775	2800	Gsu I	(6)	658	898	2321	3179
		4746	8360					5807	7429		
Dde I	(13)	613	715	733	1973	Hae I	(7)	285	4193	4864	6480
		2082	3344	3453	4027			6491	6943	8137	
		4388	4484	6740	7149	Hae II	(12)	1358	3790	4558	4905
		7315						5014	5841	6343	6713
Dpn I	(43)	589	602	611	652			7810	8058	9069	9077
		690	838	1365	1956	Hae III	(40)	285	765	877	1166
		2215	2280	2344	2369			1266	1675	1868	2231
		2390	2411	2432	3468			2261	2743	2936	3167
		3560	3770	4150	4183			3611	3844	4113	4127
		4313	4364	4702	6282			4193	4251	4419	4496
		6286	7033	7108	7119			4777	4864	4930	4980
		7127	7205	7217	7322			5101	5144	5539	5948
		7606	7618	7870	7887			6480	6491	6509	6943
		7898	7917	8228	8306			7401	7481	7963	8137
		8387	8396	8474				8528	8555	8768	8910
DpnII	(43)	587	600	609	650	Hga I	(9)	1422	2254	2321	2490
		688	836	1363	1954			3165	4065	4914	6575
		2213	2278	2342	2367			7153			
		2388	2409	2430	3466						
		3558	3768	4148	4181	HgiA I	(10)	734	2456	3107	3137
		4311	4362	4700	6280			4005	4765	5140	6783
		6284	7031	7106	7117			8168	8358		
		7125	7203	7215	7320	HgiE II	(3)	2136	4403	7044	
		7604	7616	7868	7885	Hha I	(55)	88	202	233	350
		7896	7915	8226	8304			695	1011	1052	1357
		8385	8394	8472				3153	3474	3600	3602
		546	3521	5273	5476			3604	3789	4209	4557
Dra I	(6)	7224	7243					4802	4846	4858	4860
								4874	4904	4924	4989
Dra III	(1)	8918						4991	5013	5059	5094
Drd I	(4)	4950	6573	8082	8873			5331	5840	6198	6342
Dsa I	(10)	1337	1588	2656	3161			6375	6645	6712	6812
		3316	4115	4794	4946			6986	7095	7488	7581
		4970	8487					7711	7809	7880	8049
Eae I	(13)	283	875	1264	2229			8057	8121	8158	8424
		2259	4862	4928	5142			8684	9068	9076	9102
		5537	7961	8135	8526			9121	9123	9132	
		8553				Hinc II	(3)	485	2268	3399	
Eag I	(3)	2229	2259	7961		Hind II	(3)	485	2268	3399	

HinD III	(1)	2246				Mnl I	(61)	56	304	521	530
Hinf I	(20)	615	1539	2607	3422			569	830	950	1001
		3542	3675	3963	4519			1013	1151	1244	1250
		5071	5615	5629	5651			1331	1411	1981	2038
		6365	6440	6836	7353			2113	2159	2201	2248
		8540	8674	8845	8867			2303	2479	3291	3510
HinI I	(13)	1506	1692	1775	1828			3515	3630	3714	3964
		2331	2574	2760	2843			4079	4209	4278	4724
		2896	4058	5011	7807			4818	4871	4976	4998
		8055						5001	5013	5033	5206
HinP I	(55)	86	200	231	348			5334	5609	5732	5799
		693	1009	1050	1355			5823	6081	6228	6363
		3151	3472	3598	3600			6573	6646	6897	7297
		3602	3787	4207	4555			7378	7524	7820	7906
		4800	4844	4856	4858			7970	8106	8463	8655
		4872	4902	4922	4987			8946			
		4989	5011	5057	5092	Msc I	(3)	285	4864	8137	
		5329	5838	6196	6340	Mse I	(33)	5	9	363	484
		6373	6643	6710	6810			545	1943	3011	3441
		6984	7093	7486	7579			3520	3872	4457	4505
		7709	7807	7878	8047			5272	5475	5578	5753
		8055	8119	8156	8422			5892	5995	6118	6272
		8682	9066	9074	9100			6276	7171	7223	7228
		9119	9121	9130				7242	7295	7530	7569
Hpa I	(1)	485						8728	8740	8757	8855
Hpa II	(44)	203	604	619	655			9125			
		1186	1246	1309	1349	Msl I	(6)	1587	2655	4100	4165
		2276	3168	3433	3613			5359	8492		
		3958	3998	4248	4350	Msp I	(44)	203	604	619	655
		4412	4440	4849	4908			1186	1246	1309	1349
		5075	5214	5385	5545			2276	3168	3433	3613
		5612	5688	6672	6819			3958	3998	4248	4350
		6845	7035	7439	7473			4412	4440	4849	4908
		7540	7662	7789	7960			5075	5214	5385	5545
		8037	8059	8087	8218			5612	5688	6672	6819
		8308	8375	8556	9020			6845	7035	7439	7473
Hph I	(20)	120	841	970	994			7540	7662	7789	7960
		1322	1327	1578	2646			8037	8059	8087	8218
		3683	4673	4844	5144			8308	8375	8556	9020
		5240	5562	6165	7202	MspAl I	(14)	2219	3302	3318	3460
		7429	7603	8234	8920			3622	4368	4395	4471
Kas I	(3)	5010	7806	8054				4972	5848	6807	7052
Kpn I	(1)	2276						7801	8161		
Mae I	(14)	397	598	1358	1949	Mun I	(2)	494	3416		
		2193	2241	3018	5798	Nae I	(3)	5546	8557	9021	
		6960	7213	7548	7614	Nar I	(3)	5011	7807	8055	
		7756	9069			Nci I	(19)	655	1309	3169	3433
Mae II	(35)	81	113	187	889			3434	3613	3614	3959
		1060	1273	1506	1611			4351	4441	4850	5076
		1692	1775	1816	1828			5688	5689	6845	7541
		2574	2679	2760	2843			7662	8059	8219	
		2884	2896	3662	3892	Nco I	(6)	1337	1588	2656	3161
		4157	5986	6098	6103			4946	8487		
		6169	6201	7168	7584	Nde I	(2)	1716	2784		
		7627	8171	8358	8862	NgoM I	(3)	5544	8555	9019	
		8874	8917	9027		Nhe I	(1)	1357			
Mae III	(40)	77	109	183	218	Nla III	(41)	162	642	687	882
		266	337	455	663			1077	1107	1341	1592
		1152	1450	1799	1886			1652	2008	2660	2720
		2518	2867	2954	3325			3103	3157	3165	3697
		3672	4065	4263	4678			3747	3970	4023	4087
		4827	5229	5549	5567			4318	4513	4528	4633
		5929	5987	6080	6099			4788	4950	5177	5211
		6104	6148	6170	6202			5358	5364	5428	5544
		6821	6884	7000	7283			5610	6469	7189	7748
		8175	8481	9091	9103			7929	8274	8460	8491
Mbo I	(43)	587	600	609	650			8517			
		688	836	1363	1954	Nla IV	(34)	764	1302	1485	2137
		2213	2278	2342	2367			2274	2280	2553	3193
		2388	2409	2430	3466			3617	3641	3800	4113
		3558	3768	4148	4181			4221	4242	4385	4419
		4311	4362	4700	6280			4495	4667	4807	5012
		6284	7031	7106	7117			5102	5389	5916	6497
		7125	7203	7215	7320			6536	7308	7402	7443
		7604	7616	7868	7885			7808	8056	8091	8957
		7896	7915	8226	8304			8978	8990		
		8385	8394	8472		Not I	(1)	2259			
Mbo II	(19)	856	1049	1052	1097	Nsi I	(2)	3911	4089		
		2012	2294	4056	4146	Nsp7524 I	(9)	158	2004	3153	4509
		4347	4384	4905	6337			4524	4629	5424	6465
		7126	7199	7600	8415			8456			
		8625	8707	9057		NspB II	(14)	2219	3302	3318	3460
Mlu I	(1)	358						3622	4368	4395	4471
Mme I	(5)	3250	3445	6679	6863			4972	5848	6807	7052
		8894						7801	8161		

NspH I	(9)	162	2008	3157	4513	SnaB I	(3)	1612	2680	6104
		4528	4633	5428	6469	Sph I	(4)	2008	3157	8460
		8460				Sty I	(11)	1337	1588	2656
Pac I	(2)	9	6276					3846	4946	4982
PaeR7 I	(1)	2252						5797	7864	8487
Pal I	(40)	285	765	877	1166	Taq I	(19)	823	952	967
		1266	1675	1868	2231			1288	2206	2253
		2261	2743	2936	3167			2366	4699	5907
		3611	3844	4113	4127			6565	8168	8324
		4193	4251	4419	4496			8384	8546	8951
		4777	4864	4930	4980	Tfi I	(7)	3422	3963	5071
		5101	5144	5539	5948			6440	8540	8674
		6480	6491	6509	6943	Tsp45 I	(21)	77	109	183
		7401	7481	7963	8137			663	1152	3325
		8528	8555	8768	8910			4065	4678	4827
PflM I	(1)	3663						5549	5567	5929
Ple I	(6)	623	1547	2615	5623			6170	6202	8175
		6844	8853					9091		8481
Pme I	(1)	5273				Tth111 I	(2)	3253	8173	
PpuM I	(2)	3640	4806			Tth111 II	(11)	859	2187	3372
Psp1406 I	(1)	7584						3577	4665	5436
PspA I	(3)	3432	3612	5687				7063	7093	8491
Pst I	(4)	3280	3307	3737	4470	Vsp I	(5)	5	3011	5753
Pvu II	(6)	3460	4368	4395	4471			7530		6272
		7801	8161			Xba I	(2)	597	2240	
Rsa I	(18)	209	628	910	1412	Xca I	(1)	5258		
		1569	1620	1653	1708	Xcm I	(3)	3546	5137	7871
		1733	2274	2480	2637	Xho I	(1)	2252		
		2688	2721	2776	2801	Xho II	(19)	600	609	836
		4747	8361					1954	2278	2388
Rsr II	(1)	8571						2430	3466	7106
Sac I	(3)	2456	3137	5140				7203	7215	7604
Sac II	(2)	3319	4973					7868	8226	8472
Sal I	(1)	2266				Xma I	(3)	3432	3612	5687
Sap I	(3)	6349	8399	8609		Xma III	(3)	2229	2259	7961
Sau3A I	(43)	587	600	609	650	Xmn I	(2)	2291	9139	
		688	836	1363	1954					
		2213	2278	2342	2367					
		2388	2409	2430	3466					
		3558	3768	4148	4181					
		4311	4362	4700	6280					
		6284	7031	7106	7117					
		7125	7203	7215	7320					
		7604	7616	7868	7885					
		7896	7915	8226	8304					
		8385	8394	8472						
Sau96 I	(30)	680	763	1164	1673					
		1866	2741	2934	3165					
		3610	3616	3640	3843					
		4111	4112	4250	4417					
		4418	4494	4665	4775					
		4806	4884	4979	5100					
		5946	7400	7479	7496					
		8571	8909							
ScrF I	(46)	655	927	981	1056					
		1168	1293	1309	1668					
		1861	1959	2144	2338					
		2736	2929	3169	3433					
		3434	3613	3614	3658					
		3835	3959	4129	4174					
		4254	4351	4441	4660					
		4779	4850	4866	4932					
		5076	5131	5163	5688					
		5689	6493	6614	6627					
		6845	7541	7662	8059					
		8219	8442							
Sec I	(39)	925	980	1004	1167					
		1307	1337	1588	2143					
		2656	3161	3168	3316					
		3432	3612	3834	3846					
		3958	4115	4128	4252					
		4253	4350	4778	4794					
		4865	4946	4970	4982					
		5000	5075	5600	5687					
		5688	5797	6625	7660					
		7864	8218	8487						
SfaN I	(23)	429	846	945	960					
		1236	1590	2003	2085					
		2658	3897	3917	4702					
		5094	5175	6303	6341					
		6561	8014	8269	8353					
		8417	8485	8692						
Sfc I	(6)	3276	3303	3733	4466					
		6730	6921							
Sma I	(3)	3434	3614	5689						

Site usage in pAdTrack-TOX:

Aat II	G,ACGT`C	8	Acc I	GT`MK,AC	3
Acc65 I	G`GTAC,C	1	Aci I	C`CG,C	122
Afl II	C`TTAA,G	-	Afl III	A`CRYG,T	4
Age I	A`CCGG,T	1	Aha II	GR`CG,YC	13
Ahd I	GACNN,N`NNGTC	2	Alu I	AG CT	48
Alw I	GGATC 8/9	29	AlwN I	CAG,NNN`CTG	7
Apa I	G,GGCC`C	2	ApaL I	G`TGCA,C	2
Apo I	R`AATT,Y	7	Asc I	GG`CGCG,CC	-
Ase I	AT`TA,AT	5	Asp718	G`GTAC,C	1
Ava I	C`YCGR,G	4	Ava II	G`GWC,C	8
Avr II	C`CTAG,G	1	BamH I	G`GATC,C	1
Ban I	G`GYRC,C	13	Ban II	G,RCY`C	10
Bbe I	G,CGC`C	3	Bbs I	GAAGAC 8/12	3
Bbv I	GCAGC 13/17	20	Bbv II	GAAGAC 7/11	3
Bcl I	T`GATC,A	3	Bcn I	CC,S`GG	19
Bfa I	C`TA,G	14	Bgl I	GCCN,NNN`NGGC	10
Bgl II	A`GATC,T	3	Blp I	GC`TNA,GC	-
Bpm I	CTGGAG 22/20	6	Bsa I	GGTCTC 7/11	5
BsaA I	YAC GTR	7	BsaB I	GATNN NNATC	7
BsaH I	GR`CG,YC	13	BsaJ I	C`CNNG,G	39
BsaW I	W`CCGG,W	11	BseR I	GAGGAG 16/14	4
Bsg I	GTGAG 22/20	7	BsiC I	TT`CG,AA	-
BsiE I	CG,RY`CG	9	BsiHKA I	G,WGCW`C	10
BsiW I	C`GTAC,G	-	Bsm I	GAATG,C 7	4
BsmA I	GTCTC`/9	13	BsmB I	CGTCTC 7/11	3
BsmF I	GGGAC 15/19	11	BsoF I	GC`N,GC	71
Bsp120 I	G`GGCC,C	2	Bsp1286 I	G,DGCH`C	2
BspH I	T`CATG,A	1	BspM I	ACCTGC 10/14	8
BspM II	T`CCGG,A	3	Bsr I	ACT,GG`	20
BsrB I	GAG CGG	4	BsrD I	GCAATG, 8	3
BsrG I	T`GTAC,A	2	Bsh II	G`CGCG,C	5
BssS I	C`TCGT,G	5	Bst1107 I	GTA TAC	1
BstB I	TT`CG,AA	-	BstE II	G`GTNAC,C	2
BstN I	CC`W,GG	27	BstU I	CG CG	37
BstX I	CCAN,NNNN`NTGG	1	BstY I	R`GATC,Y	19
Bsu36 I	CC`TNA,GG	-	Cac8 I	GCN NGC	59
Cfr10 I	R`CCGG,Y	11	Cla I	AT`CG,AT	1
Csp6 I	G`TA,C	18	Dde I	C`TNA,G	13
Dpn I	GA TC	43	DpnII	`GATC,	43
Dra I	TTT AAA	6	Dra III	CAC,NNN`GTG	1
Drd I	GACNN,NN`NNGTC	4	Dsa I	C`CRYG,G	10
Eae I	Y`GGCC,R	13	Eag I	C`GGCC,G	3
Ear I	CTCTTC 7/10	3	Eco47 III	AGC GCT	4
Eco57 I	CTGAAG 21/19	9	Eco72 I	CAC GTG	-
EcoN I	CCTNN`N,NNAGG	-	Eco109 I	RG`GNC,CY	4
EcoR I	G`AATT,C	1	EcoR II	`CCWGG,	27
EcoR V	GAT ATC	1	Ehe I	GGC GCC	3
Esp I	GC`TNA,GC	-	Fnu4H I	GC`N,GC	71
Fok I	GGATG 14/18	21	Fse I	GG,CCGG`CC	-
Fsp I	TGC GCA	2	Gdi II	`YGGC,CG	13
Gsu I	CTGGAG 21/19	6	Hae I	WGG CCW	7

Hae II	R,GCGC`Y	12	Hae III	GG CC	40	Ple I	GAGTC 9/10	6	Pme I	CTTT AAAC	1
Hga I	GACGC 9/14	9	HgiA I	G,WGCW`C	10	Pml I	CAC GTG	-	PpuM I	RG`GWC,CY	2
HgiE II	ACCNNNNNNGGT -1/133		Hha I	G,CG`C	55	Psp1406 I	AA`CG,TT	1	Pspa I	C`CCGG,G	3
HinC II	GTY RAC	3	Hind II	GTY RAC	3	Pst I	C,TGCA`G	4	Pvu I	CG,AT`CG	-
HinD III	A`AGCT,T	1	Hinf I	G`ANT,C	20	Pvu II	CAG CTG	6	Rsa I	GT AC	18
HinI I	GR`CG,YC	13	HinP I	G`CG,C	55	Rsr II	CG`GWC,CG	1	Sac I	G,AGCT`C	3
Hpa I	GTT AAC	1	Hpa II	C`CG,G	44	Sac II	CC,GC`GG	2	Sal I	G`TCGA,C	1
Hph I	GGTGA 12/11	20	Kas I	G`GCGC,C	3	Sap I	GCTCTTC 8/11	3	Sau3A I	`GATC,	43
Kpn I	G,GTAC`C	1	Mae I	C`TA,G	14	Sau96 I	G`GNC,C	30	Sca I	AGT ACT	-
Mae II	A`CG,T	35	Mae III	`GTNAC,	40	ScrF I	CC`N,GG	46	Sec I	C`CNNG,G	39
Mbo I	`GATC,	43	Mbo II	GAAGA 12/11	19	SfaN I	GCATC 9/13	23	Sfc I	C`TRYA,G	6
Mlu I	A`CGCG,T	1	Mme I	TCCRAC 25/23	5	Sfi I	GGCCN,NNN`NGGCC	-	Sma I	CCC GGG	3
Mnl I	CCTC 10/10	61	Msc I	TGG CCA	3	SnaB I	TAC GTA	3	Spe I	A`CTAG,T	-
Mse I	T`TA,A	33	Msl I	CAYNN NNRTG	6	Sph I	G,CATG`C	4	Spl I	C`GTAC,G	-
Msp I	C`CG,G	44	MspAl I	CMG CKG	14	Srf I	GCCC GGGC	-	Ssp I	AAT ATT	-
Mun I	C`AATT,G	2	Nae I	GCC GGC	3	Stu I	AGG CCT	-	Sty I	C`CWWG,G	11
Nar I	GG`CG,CC	3	Nci I	CC`s,GG	19	Taq I	T`CG,A	19	Tfi I	G`AWT,C	7
Nco I	C`CATG,G	6	Nde I	CA`TA,TG	2	Tsp45 I	`GTSAC,	21	Tth111 I	GACN`N,NGTC	2
NgoM I	G`CCGG,C	3	Nhe I	G`CTAG,C	1	Tth111 II	CAARCA 16/14	11	Vsp I	AT`TA,AT	5
Nla III	,CATG`	41	Nla IV	GGN NCC	34	Xba I	T`CTAG,A	2	Xca I	GTA TAC	1
Not I	GC`GGCC,GC	1	Nru I	TCG CGA	-	Xcm I	CCANNNN,N`NNNNTGG3		Xho I	C`TCGA,G	1
Nsi I	A,TGCA`T	2	Nsp7524 I	R`CATG,Y	9	Xho II	R`GATC,Y	19	Xma I	C`CCGG,G	3
NspB II	CMG CKG	14	NspH I	R,CATG`Y	9	Xma III	C`GGCC,G	3	Xmn I	GAANN NNTTC	2
Pac I	TTA,AT`TAA	2	PaeR7 I	C`TCGA,G	1						
Pal I	GG CC	40	Pflm I	CCAN,NNN`NTGG	1						