



Name of Vector: pAdTrack-TO4
Antibiotic Selection: Kan
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(He Lab @ The University of Chicago)
Date of Creation: October 2003

pAdTrack-TO4 Vector Sequence

NNNNTTAATTAANNNTCCCTTCCAGCTCTCTGCCCTTTTGGATTGAAGCCAATATGATAA 60
 TGAGGGGGTGGAGTTTGTGACGTGGCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAG 120
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TAATGCGCCGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 9180
NNNNNNNNNNNNNNNN 9194

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Unique enzymes in pAdTrack-TO4:

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	3659
BstX I	CCAN,NNNN`NTGG	4098
Bst1107 I	GTA TAC	5254
Xca I	GTA TAC	5254
Pme I	CTTT AAAC	5269
Avr II	C`CTAG,G	5793
Cla I	AT`CG,AT	6279

BspH I	T`CATG,A	7181
Psp1406 I	AA`CG,TT	7580
Rsr II	CG`GWC,CG	8567
Dra III	CAC,NNN`GTG	8914
Xmn I	GAANN NNTTC	9135

Number of enzymes = 26

The following enzymes do not cut in pAdTrack-TO4:

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-TO4: sites sorted by name:

Aat II	(8)	1509	1695	1778	1831
		2573	2759	2842	2895
Acc I	(3)	2267	4315	5253	
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	BsaA I	(7)	1612	2676	3889	6100
		2228	2258	2262	2486			7624	8355	8914	
		2507	2611	2644	2735	BsaB I	(7)	586	2368	2389	2410
		2902	2916	2928	2956			2431	3553	7910	
		3086	3089	3092	3218	BsaH I	(13)	1506	1692	1775	1828
		3281	3284	3287	3296			2327	2570	2756	2839
		3308	3312	3314	3346			2892	4054	5007	7803
		3377	3381	3511	3600			8051			
		3618	3746	3864	4117	BsaJ I	(39)	925	980	1004	1167
		4120	4205	4209	4226			1307	1337	1588	2143
		4322	4402	4541	4558			2652	3157	3164	3312
		4616	4659	4720	4730			3428	3608	3830	3842
		4966	4968	5010	5086			3954	4111	4124	4248
		5091	5100	5428	5700			4249	4346	4774	4790
		5814	5844	6019	6151			4861	4942	4966	4978
		6172	6190	6301	6327			4996	5071	5596	5683
		6344	6387	6394	6415			5684	5793	6621	7656
		6506	6534	6661	6680			7860	8214	8483	
		6801	6911	7046	7055	BsaW I	(11)	603	618	1348	2275
		7417	7508	7638	7761			3993	5380	5607	6667
		7857	7960	8023	8117			6814	7784	8082	
		8181	8282	8285	8525	BseR I	(4)	1311	4700	5016	5585
		8565	8570	8620	8636	Beg I	(7)	792	1116	1213	3380
		8662	8804	8943	9058			3990	5045	5970	
		9085	9113			BsiE I	(9)	1349	2232	2262	3628
Afl III	(4)	158	358	5420	6461			5674	6377	6801	7960
Age I	(1)	1348				BsiHKA I	(10)	734	2452	3103	3133
Aha II	(13)	1506	1692	1775	1828			4001	4761	5136	6779
		2327	2570	2756	2839			8164	8354		
		2892	4054	5007	7803	Bsm I	(4)	406	499	4083	5114
		8051				BsmA I	(13)	1515	2333	2579	3239
Ahd I	(2)	3618	7354					3263	3625	3709	4046
Alu I	(48)	25	469	632	806			4603	5113	5706	7416
		917	965	1181	1214			7894			
		1286	1319	1386	2248	BsmB I	(3)	2334	3710	4045	
		2360	2450	3131	3364	BsmF I	(11)	1454	1622	1773	2518
		3456	3736	3822	3872			2686	2837	3625	4494
		4022	4364	4391	4461			4647	5231	8202	
		4467	4670	4990	5047	BsoF I	(71)	470	659	753	756
		5134	5378	5593	5917			807	814	1098	1120
		6403	6629	6719	6765			1179	2229	2259	2262
		7022	7543	7672	7725			3080	3083	3086	3089
		7751	7797	7888	8157			3092	3275	3284	3287
Alw I	(29)	596	616	646	843			3296	3299	3302	3362
		1370	1950	2274	2285			3454	3744	4118	4121
		3469	3561	3760	4151			4389	4392	4405	4462
		4314	4692	6276	6283			4465	4468	4558	4731
		7023	7109	7109	7206			4850	4901	4969	4988
		7207	7607	7608	7871			5010	5091	5299	5845
		7888	7918	8229	8296			5848	6367	6385	6388
		8475						6506	6661	6804	6869
AlwN I	(7)	1958	3298	3456	3541			6872	7078	7406	7857
		5262	6877	7675				7960	8012	8023	8113
Apa I	(2)	4111	4417					8118	8155	8196	8283
ApaL I	(2)	3997	6775					8286	8289	8525	8621
Apo I	(7)	257	430	2287	4008			8662	8676	9094	
		5274	8716	8727		Bsp120 I	(2)	4107	4413		
Ase I	(5)	5	3007	5749	6268	Bsp1286 I	(2)	3103	8354		
		7526				BspH I	(1)	7181			
Asp718	(1)	2272				BspM I	(8)	3465	4327	4367	4687
Ava I	(4)	2252	3428	3608	5683			5361	7709	7938	8319
Ava II	(8)	680	3612	3636	4661	BspM II	(3)	618	5380	5607	
		4802	4880	7492	8567	Bsr I	(20)	729	1658	2722	3769
								4449	5564	5869	6868
Avr II	(1)	5793						6881	6995	7401	7519
BamH I	(1)	2278						7562	7634	7679	7760
Ban I	(13)	1300	1483	2135	2272			7844	7994	8195	8828
		3794	4215	5006	5910			5816	6394	8664	9058
		7302	7802	8050	8085	BsrB I	(4)	4109	7415	8284	
		8951				BsrD I	(3)	207	626		
Ban II	(10)	1990	2452	3133	3190	BsrG I	(2)	3594	3596	4852	4983
		3346	4111	4417	5136	BssH II	(5)	9115			
		8416	8989					1155	5013	5120	6634
Bbe I	(3)	5010	7806	8054		BssS I	(5)	8643			
Bbs I	(3)	2011	2289	4900		Bst1107 I	(1)	5254			
Bbv I	(20)	764	767	1190	3091	BstE II	(2)	4674	5563		
		3094	3286	3313	3373			927	981	1056	1168
		3465	4400	4416	4476	BstN I	(27)	1293	1668	1861	1959
		4999	5859	6880	6883			2144	2334	2732	2925
		7089	8124	8166	8687			3654	3831	4125	4170
Bbv II	(3)	2012	2290	4901				4250	4656	4775	4862
Bcl I	(3)	587	2213	7892				4928	5127	5159	6489
Bcn I	(19)	656	1310	3166	3430			6610	6623	8438	
		3431	3610	3611	3956	BstU I	(37)	88	231	233	294
		4348	4438	4847	5073			350	360	693	1011
		5685	5686	6842	7538			1892	2264	2956	3147
		7659	8056	8216				3314	3383	3596	3598
Bfa I	(14)	397	598	1358	1949			3600	4205	4720	4854
		2193	2241	3014	5794			4920	4968	4985	5055
		6956	7209	7544	7610			5088	5325	6025	6192
		7752	9065					6508	7089	7419	8117
Bgl I	(10)	1672	1743	1865	2736			8418	8806	9098	9115
		2807	2929	3490	5541			9117			
		7474	9134			BstX I	(1)	4098			
Bgl II	(3)	2384	2405	2426		BstY I	(19)	600	609	836	1363
Bpm I	(6)	657	897	2316	3174			1954	2278	2384	2405
		5802	7424					2426	3462	7102	7113
Bsa I	(5)	3238	3626	4602	5114			7199	7211	7600	7612
		7415									

Cac8 I	(59)	7864	8222	8468			3889	4185	4227	4461
		804	811	1135	1183		5069	7320	7501	7673
		1216	1359	1673	1866		7856	7918	8375	8400
		2006	2010	2187	2737		8764			
		2930	3151	3218	3312	Fsp I	(2)	7576	8153	
		3346	3350	3354	3381	Gdi II	(13)	876	1263	2228
		3472	3596	3598	3820			2258	2260	4925
		3838	4207	4555	4627			5534	7956	7958
		4854	4858	4985	4992			8548		8521
		5095	5542	5704	6023	Gsu I	(6)	658	898	2317
		6392	6478	6515	7075			5803	7425	3175
		7466	7703	7727	7778	Hae I	(7)	285	4189	4860
		7795	7945	8131	8350			6487	6939	8133
		8416	8422	8450	8454	Hae II	(12)	1358	3786	4554
		8495	8499	8553	9017			5010	5837	6339
		9060	9074	9117				7806	8054	9065
Cfr10 I	(11)	202	1185	1348	4407	Hae III	(40)	285	765	877
		4903	5209	5540	7434			1266	1675	1868
		8370	8551	9015				2261	2739	2932
								3607	3840	4109
Cla I	(1)	6279						4189	4247	4415
Csp6 I	(18)	208	627	909	1411			4773	4860	4926
		1568	1619	1652	1707			5097	5140	5535
		1732	2273	2475	2632			6476	6487	6505
		2683	2716	2771	2796			7397	7477	7959
		4742	8356					8524	8551	8764
Dde I	(13)	613	715	733	1973	Hga I	(9)	1422	2254	2317
		2082	3340	3449	4023			3161	4061	4910
		4384	4480	6736	7145			7149		6571
		7311				HgiA I	(10)	734	2452	3103
Dpn I	(43)	589	602	611	652			4001	4761	5136
		690	838	1365	1956			8164	8354	6779
		2215	2280	2340	2365			2136	4399	7040
		2386	2407	2428	3464	HgiE II	(3)	88	202	233
		3556	3766	4146	4179	Hha I	(55)	695	1011	1052
		4309	4360	4698	6278			3149	3470	3596
		6282	7029	7104	7115			3600	3785	4205
		7123	7201	7213	7318			4798	4842	4854
		7602	7614	7866	7883			4870	4900	4920
		7894	7913	8224	8302			4987	5009	5055
		8383	8392	8470				5327	5836	6194
DpnII	(43)	587	600	609	650			6371	6641	6708
		688	836	1363	1954			6982	7091	7484
		2213	2278	2338	2363			7707	7805	7876
		2384	2405	2426	3462			8053	8117	8154
		3554	3764	4144	4177			8680	9064	9072
		4307	4358	4696	6276			9117	9119	9128
		6280	7027	7102	7113	HinC II	(3)	485	2268	3395
		7121	7199	7211	7316	Hind II	(3)	485	2268	3395
		7600	7612	7864	7881	HinD III	(1)	2246		
		7892	7911	8222	8300	Hinf I	(20)	615	1539	2603
		8381	8390	8468				3538	3671	3959
Dra I	(6)	546	3517	5269	5472			5067	5611	5625
		7220	7239					6361	6436	6832
Dra III	(1)	8914						8536	8670	8841
Drd I	(4)	4946	6569	8078	8869			1506	1692	1775
Dsa I	(10)	1337	1588	2652	3157	HinI I	(13)	2327	2570	2756
		3312	4111	4790	4942			2892	4054	5007
		4966	8483					8051		7803
Eae I	(13)	283	875	1264	2229			86	200	231
		2259	4858	4924	5138	HinP I	(55)	693	1009	1050
		5533	7957	8131	8522			3147	3468	3594
		8549						3598	3783	4203
Eag I	(3)	2229	2259	7957				4796	4840	4852
Ear I	(3)	6345	8395	8605				4868	4898	4918
Eco47 III	(4)	1356	3784	4899	5835			4985	5007	5053
Eco57 I	(9)	946	1143	1189	3276			5325	5834	6192
		3507	4913	7008	8196			6369	6639	6706
		8628						6980	7089	7482
EcoO109 I	(4)	3636	3839	4802	5096			7705	7803	7874
EcoR I	(2)	2287	5274					8051	8115	8152
EcoR II	(27)	925	979	1054	1166			8678	9062	9070
		1291	1666	1859	1957			9115	9117	9126
		2142	2332	2730	2923			485	604	619
		3652	3829	4123	4168	Hpa I	(1)	1186	1246	1309
		4248	4654	4773	4860	Hpa II	(44)	2276	3164	3429
		4926	5125	5157	6487			3954	3994	4244
		6608	6621	8436				4408	4436	4845
EcoR V	(1)	2236						5071	5210	5381
Ehe I	(3)	5008	7804	8052				5608	5684	6668
Fnu4H I	(71)	470	659	753	756			6841	7031	7435
		807	814	1098	1120			7536	7658	7785
		1179	2229	2259	2262			8033	8055	8083
		3080	3083	3086	3089			8304	8371	8552
		3092	3275	3284	3287			120	841	970
		3296	3299	3302	3362	Hph I	(20)	1322	1327	1578
		3454	3744	4118	4121			3679	4669	4840
		4389	4392	4405	4462			5236	5558	6161
		4465	4468	4558	4731			7425	7599	8230
		4850	4901	4969	4988			5006	7802	8050
		5010	5091	5299	5845	Kas I	(3)	2276		
		5848	6367	6385	6388	Kpn I	(1)	397	598	1358
		6506	6661	6804	6869	Mae I	(14)	2193	2241	3014
		6872	7078	7406	7857			6956	7209	7544
		7960	8012	8023	8113			7752	9065	
		8118	8155	8196	8283			81	113	187
		8286	8289	8525	8621			1060	1273	1506
		8662	8676	9094				1692	1775	1816
Fok I	(21)	184	258	942	1308					
		1982	2335	3360	3690					

		2570	2675	2756	2839			5606	6465	7185	7744
		2880	2892	3658	3888			7925	8270	8456	8487
		4153	5982	6094	6099			8513			
		6165	6197	7164	7580	Nla IV	(34)	764	1302	1485	2137
		7623	8167	8354	8858			2274	2280	2549	3189
Mae III	(40)	8870	8913	9023				3613	3637	3796	4109
		77	109	183	218			4217	4238	4381	4415
		266	337	455	663			4491	4663	4803	5008
		1152	1450	1799	1886			5098	5385	5912	6493
		2514	2863	2950	3321			6532	7304	7398	7439
		3668	4061	4259	4674			7804	8052	8087	8953
		4823	5225	5545	5563			8974	8986		
		5925	5983	6076	6095	Not I	(1)	2259			
		6100	6144	6166	6198	Nsi I	(2)	3907	4085		
		6817	6880	6996	7279	Nsp7524 I	(9)	158	2004	3149	4505
Mbo I	(43)	8171	8477	9087	9099			4520	4625	5420	6461
		587	600	609	650			8452			
		688	836	1363	1954	NspB II	(14)	2219	3298	3314	3456
		2213	2278	2338	2363			3618	4364	4391	4467
		2384	2405	2426	3462			4968	5844	6803	7048
		3554	3764	4144	4177			7797	8157		
		4307	4358	4696	6276	NspH I	(9)	162	2008	3153	4509
		6280	7027	7102	7113			4524	4629	5424	6465
		7121	7199	7211	7316			8456			
		7600	7612	7864	7881	Pac I	(2)	9	6272		
		7892	7911	8222	8300	Paer7 I	(1)	2252			
Mbo II	(19)	8381	8390	8468		Pal I	(40)	285	765	877	1166
		856	1049	1052	1097			1266	1675	1868	2231
		2012	2290	4052	4142			2261	2739	2932	3163
		4343	4380	4901	6333			3607	3840	4109	4123
		7122	7195	7596	8411			4189	4247	4415	4492
		8621	8703	9053				4773	4860	4926	4976
Mlu I	(1)	358						5097	5140	5535	5944
Mme I	(5)	3246	3441	6675	6859			6476	6487	6505	6939
		8890						7397	7477	7959	8133
Mnl I	(61)	56	304	521	530			8524	8551	8764	8906
		569	830	950	1001	PflM I	(1)	3659			
		1013	1151	1244	1250	Ple I	(6)	623	1547	2611	5619
		1331	1411	1981	2038			6840	8849		
		2113	2159	2201	2248						
		2299	2475	3287	3506	Pme I	(1)	5269			
		3511	3626	3710	3960	PpuM I	(2)	3636	4802		
		4075	4205	4274	4720	Psp1406 I	(1)	7580			
		4814	4867	4972	4994	PspA I	(3)	3428	3608	5683	
		4997	5009	5029	5202	Pst I	(4)	3276	3303	3733	4466
		5330	5605	5728	5795	Pvu II	(6)	3456	4364	4391	4467
		5819	6077	6224	6359			7797	8157		
		6569	6642	6893	7293	Rsa I	(18)	209	628	910	1412
		7374	7520	7816	7902			1569	1620	1653	1708
		7966	8102	8459	8651			1733	2274	2476	2633
		8942						2684	2717	2772	2797
Msc I	(3)	285	4860	8133		Rsr II	(1)	8567			
Mse I	(33)	5	9	363	484	Sac I	(3)	2452	3133	5136	
		545	1943	3007	3437	Sac II	(2)	3315	4969		
		3516	3868	4453	4501	Sal I	(1)	2266			
		5268	5471	5574	5749	Sap I	(3)	6345	8395	8605	
		5888	5991	6114	6268	Sau3A I	(43)	587	600	609	650
		6272	7167	7219	7224			688	836	1363	1954
		7238	7291	7526	7565			2213	2278	2338	2363
		8724	8736	8753	8851			2384	2405	2426	3462
		9121						3554	3764	4144	4177
Msl I	(6)	1587	2651	4096	4161			4307	4358	4696	6276
		5355	8488					6280	7027	7102	7113
Msp I	(44)	203	604	619	655			7121	7199	7211	7316
		1186	1246	1309	1349			7600	7612	7864	7881
		2276	3164	3429	3609			7892	7911	8222	8300
		3954	3994	4244	4346			8381	8390	8468	
		4408	4436	4845	4904	Sau96 I	(30)	680	763	1164	1673
		5071	5210	5381	5541			1866	2737	2930	3161
		5608	5684	6668	6815			3606	3612	3636	3839
		6841	7031	7435	7469			4107	4108	4246	4413
		7536	7658	7785	7956			4414	4490	4661	4771
		8033	8055	8083	8214			4802	4880	4975	5096
		8304	8371	8552	9016			5942	7396	7475	7492
MspAl I	(14)	2219	3298	3314	3456			8567	8905		
		3618	4364	4391	4467	ScrF I	(46)	655	927	981	1056
		4968	5844	6803	7048			1168	1293	1309	1668
		7797	8157					1861	1959	2144	2334
Mun I	(2)	494	3412					2732	2925	3165	3429
Nae I	(3)	5542	8553	9017				3430	3609	3610	3654
Nar I	(3)	5007	7803	8051				3831	3955	4125	4170
Nci I	(19)	655	1309	3165	3429			4250	4347	4437	4656
		3430	3609	3610	3955			4775	4846	4862	4928
		4347	4437	4846	5072			5072	5127	5159	5684
		5684	5685	6841	7537			5685	6489	6610	6623
		7658	8055	8215				6841	7537	7658	8055
Nco I	(6)	1337	1588	2652	3157			8215	8438		
		4942	8483					925	980	1004	1167
Nde I	(2)	1716	2780			Sec I	(39)	1307	1337	1588	2143
Ngom I	(3)	5540	8551	9015				2652	3157	3164	3312
Nhe I	(1)	1357						3428	3608	3830	3842
Nla III	(41)	162	642	687	882			3954	4111	4124	4248
		1077	1107	1341	1592			4249	4346	4774	4790
		1652	2008	2656	2716			4861	4942	4966	4978
		3099	3153	3161	3693			4996	5071	5596	5683
		3743	3966	4019	4083			5684	5793	6621	7656
		4314	4509	4524	4629			7860	8214	8483	
		4784	4946	5173	5207	SfaN I	(23)	429	846	945	960
		5354	5360	5424	5540			1236	1590	2003	2085

		2654	3893	3913	4698	BspH I	T`CATG,A	1	BspM I	ACCTGC 10/14	8
		5090	5171	6299	6337	BspM II	T`CCGG,A	3	Bsr I	ACT,GG`	20
		6557	8010	8265	8349	BsrB I	GAG CGG	4	BsrD I	GCAATG, 8	3
		8413	8481	8688		BsrG I	T`GTAC,A	2	BssH II	G`CGCG,C	5
Sfc I	(6)	3272	3299	3729	4462	BssS I	C`TCGT,G	5	Bst1107 I	GTA TAC	1
		6726	6917			BstB I	TT`CG,AA	-	BstE II	G`GTNAC,C	2
Sma I	(3)	3430	3610	5685		BstN I	CC`W,GG	27	BstU I	CG CG	37
SnaB I	(3)	1612	2676	6100		BstX I	CCAN,NNNN`NTGG	1	BstY I	R`GATC,Y	19
Sph I	(4)	2008	3153	4629	8456	Bsu36 I	CC`TNA,GG	-	Cac8 I	GCN NGC	59
Sty I	(11)	1337	1588	2652	3157	Cfr10 I	R`CCGG,Y	11	Cla I	AT`CG,AT	1
		3842	4942	4978	4996	Csp6 I	G`TA,C	18	Dde I	C`TNA,G	13
		5793	7860	8483		Dpn I	GA TC	43	DpnII	`GATC,	43
Taq I	(19)	823	952	967	994	Dra I	TTT AAA	6	Dra III	CAC,NNN`GTG	1
		1288	2206	2253	2267	Drd I	GACNN,NN`NNGTC	4	Dsa I	C`CRYG,G	10
		2362	4695	5903	6279	Eae I	Y`GGCC,R	13	Eag I	C`GGCC,G	3
		6561	8164	8320	8344	Ear I	CTCTTC 7/10	3	Eco47 III	AGC GCT	4
		8380	8542	8947		Eco57 I	CTGAAG 21/19	9	Eco72 I	CAC GTG	-
Tfi I	(7)	3418	3959	5067	5647	EcoN I	CCTNN`N,NNAGG	-	EcoO109 I	RG`GNC,CY	4
		6436	8536	8670		EcoR I	G`AATT,C	2	EcoR II	`CCWGG,	27
Tsp45 I	(21)	77	109	183	218	EcoR V	GAT ATC	1	Ehe I	GGC GCC	3
		663	1152	3321	3668	Esp I	GC`TNA,GC	-	Fnu4H I	GC`N,GC	71
		4061	4674	4823	5225	Fok I	GGATG 14/18	21	Fse I	GG,CCGG`CC	-
		5545	5563	5925	6076	Fsp I	TGC GCA	2	Gdi II	`YGGC,CG	13
		6166	6198	8171	8477	Gau I	CTGGAG 21/19	6	Hae I	WGG CCW	7
		9087				Hae II	R,CGCG`Y	12	Hae III	GG CC	40
Tth111 I	(2)	3249	8169			Hga I	GACGC 9/14	9	HgaI A	G,WGCW`C	10
Tth111 II	(11)	859	2187	3368	3534	HgiE II	ACCNNNNNNGGT -1/133	3	Hha I	G,CG`C	55
		3573	4661	5432	7050	HinC II	GTY RAC	3	Hind II	GTY RAC	3
		7059	7089	8487		HinD III	A`AGCT,T	1	Hinf I	G`ANT,C	20
Vsp I	(5)	5	3007	5749	6268	HinI I	GR`CG,YC	13	HinP I	G`CG,C	55
		7526				Hpa I	GGT AAC	1	Hpa II	C`CG,G	44
Xba I	(2)	597	2240			Hph I	GGTGA 12/11	20	Kas I	G`GGC,C	3
Xca I	(1)	5254				Kpn I	G,GTAC`C	1	Mae I	C`TA,G	14
Xcm I	(3)	3542	5133	7867		Mae II	A`CG,T	35	Mae III	`GTNAC,	40
Xho I	(1)	2252				Mbo I	`GATC,	43	Mbo II	GAAGA 12/11	19
Xho II	(19)	600	609	836	1363	Mlu I	A`GCGG,T	1	Mme I	TCCRAC 25/23	5
		1954	2278	2384	2405	Mnl I	CCTC 10/10	61	Msc I	TGG CCA	3
		2426	3462	7102	7113	Mse I	T`TA,A	33	Msl I	CAYNN NNRTG	6
		7199	7211	7600	7612	Msp I	C`CG,G	44	MspA1 I	CMG CKG	14
		7864	8222	8468		Mun I	C`AATT,G	2	Nae I	GCC GGC	3
Xma I	(3)	3428	3608	5683		Nar I	GG`CG,CC	3	Nci I	CC`S,GG	19
Xma III	(3)	2229	2259	7957		Nco I	C`CATG,G	6	Nde I	CA`TA,TG	2
Xmn I	(1)	9135				NgoM I	G`CCGG,C	3	Nhe I	G`CTAG,C	1
						Nla III	,CATG`	41	Nla IV	GGN NCC	34
						Not I	GC`GGCC,GC	1	Nru I	TCG CGA	-
						Nsi I	A,TGCA`T	2	Nsp7524 I	R`CATG,Y	9
						NspB II	CMG CKG	14	NspH I	R,CATG`Y	9
						Pac I	TTA,AT`TAA	2	Paer7 I	C`TCGA,G	1
						Pal I	GG CC	40	Pflm I	CCAN,NNN`NTGG	1
						Ple I	GAGTC 9/10	6	Pme I	CTTT AAAC	1
						Pml I	CAC GTG	-	PpuM I	RG`GWC,CY	2
						Psp1406 I	AA`CG,TT	1	Pspa I	C`CCGG,G	3
						Pst I	C, TGCA`G	4	Pvu I	CG,AT`CG	-
						Pvu II	CAG CTG	6	Rsa I	GT AC	18
						Rsr II	CG`GWC,CG	1	Sac I	G,AGCT`C	3
						Sac II	CC,GC`GG	2	Sal I	G`TCGA,C	1
						Sap I	GCCTCTC 8/11	3	Sau3A I	`GATC,	43
						Sau96 I	G`GNC,C	30	Sca I	AGT ACT	-
						ScrF I	CC`N,GG	46	Sec I	C`CNNG,G	39
						SfaN I	GCATC 9/13	23	Sfc I	C`TRYA,G	6
						Sfi I	GGCCN,NNN`NGGCC	-	Sma I	CCC GGG	3
						SnaB I	TAC GTA	3	Spe I	A`CTAG,T	-
						Sph I	G,CATG`C	4	Spl I	C`GTAC,G	-
						Srf I	GGCC GGGC	-	Ssp I	AAT ATT	-
						Stu I	AGG CCT	-	Sty I	C`CWG,G	11
						Taq I	T`CG,A	19	Tfi I	G`AWT,C	7
						Tsp45 I	`GTSAC,	21	Tth111 I	GACN`N,NGTC	2
						Tth111 II	CAARCA 16/14	11	Vsp I	AT`TA,AT	5
						Xba I	T`CTAG,A	2	Xca I	GTA TAC	1
						Xcm I	CCANNNN,N`NNNNTGG3	19	Xho I	C`TCGA,G	1
						Xho II	R`GATC,Y	19	Xma I	C`CCGG,G	3
						Xma III	C`GGCC,G	3	Xmn I	GAANN NNTTC	1

Site usage in pAdTrack-TO4:

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,RGCY`C	10
Bbe I	G,CGGC`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`NGCC	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	GTGCAG 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
Bspl20 I	G`GGCC,C	2	Bsp1286 I	G,DGCH`C	2