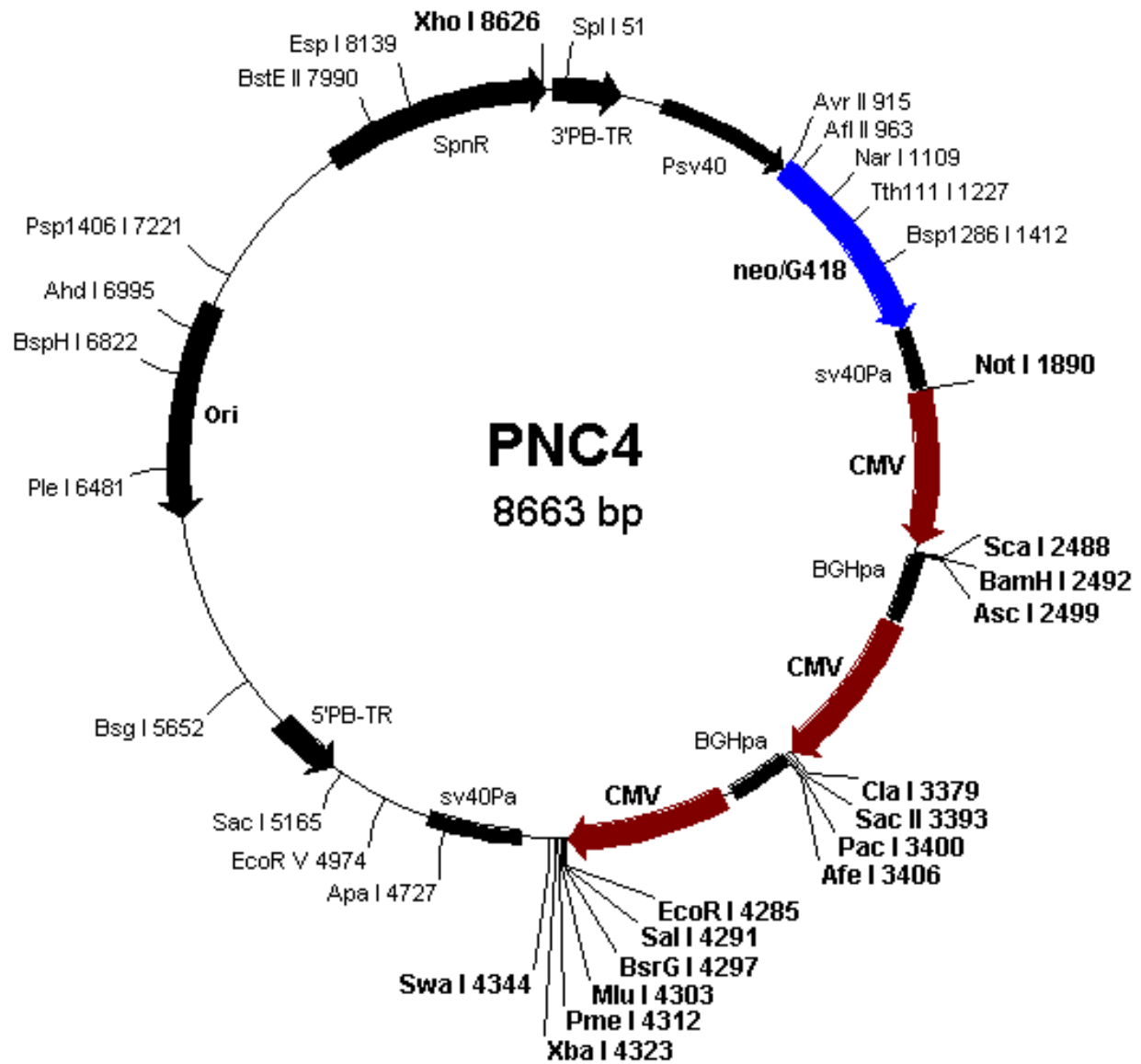


Vector: PNC4 (MOLab modified piggyBac vector with CMV promoter)

Antibiotic Selection: Spectinomycin-resistant

Creator(s): Xian Chen & Palak Shah, Molecular Oncology Lab of The University of Chicago

Date of Construction: January, 2013



PNC4 Vector Sequence (Spectinomycin-resistant)

CTGCAGAACACGCAGCTAGATTAACTCTAGAAAAGATAATCATATTGTGACGTACGTTAAAGATAAATCATGCGTAAAATTGACGCATG
TGTTTTATCGGTCTGTATATCGAGGTTTATTTATTAATTTGAATAGATATTAAGTTTTATTATATTTACTTACATACTAATAATA
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CAGGACAGAAATGCCTGCATTCGCTGCTACCCAAGTTGCCGGGTACGCGACACCGTGGAAACGGATGAAGGCACGACCCAGCTGG
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GGCAAATAACCCTCGAGCCACCCA **TGACCCAAAATCCCTTAACGTGAGTTA**

Unique enzymes in PNC4:

BsiW I	C`GTAC,G	51	Xba I	T`CTAG,A	4323		
Spl I	C`GTAC,G	51	Swa I	ATTT AAAT	4344		
BseR I	GAGGAG 16/14	911	EcoN I	CCTNN`N,NNAGG	4718		
Avr II	C`CTAG,G	915	EcoO109 I	RG`GNC,CY	4723		
Afl II	C`TTAA,G	963	Bsp120 I	G`GGCC,C	4723		
Kas I	G`GCGC,C	1108	Apa I	G,GGCC`C	4727		
Nar I	GG`CG,CC	1109	EcoR V	GAT ATC	4974		
Ehe I	GGC GCC	1110	Sac I	G,AGCT`C	5165		
Bbe I	G,GCGC`C	1112	Bsg I	GTGCAG 22/20	5652		
Tth111 I	GACN`N,NGTC	1227	Ple I	GAGTC 9/10	6481		
Bsp1286 I	G,DGCH`C	1412	BspH I	T`CATG,A	6822		
Not I	GC`GGCC,GC	1890	Ahd I	GACNN,N`NNGTC	6995		
Sca I	AGT ACT	2488	Psp1406 I	AA`CG,TT	7221		
BamH I	G`GATC,C	2492	BstE II	G`GTNAC,C	7990		
Asc I	GG`CGCG,CC	2499	Blp I	GC`TNA,GC	8139		
Cla I	AT`CG,AT	3379	Esp I	GC`TNA,GC	8139		
Sac II	CC,GC`GG	3393	Paer7 I	C`TCGA,G	8626		
Pac I	TTA,AT`TAA	3400	Xho I	C`TCGA,G	8626		
Afe I	AGC GCT	3406	Number of enzymes = 44				
Eco47 III	AGC GCT	3406	The following enzymes do not cut in PNC4:				
EcoR I	G`AATT,C	4285	Age I	Bgl II	BsaB I	BsmB I	Bst1107 I
Sal I	G`TCGA,C	4291	Bsu36 I	Eco72 I	Fse I	Hpa I	Mun I
Acc I	GT`MK,AC	4292	Nhe I	Nru I	PflM I	Pml I	PpuM I
BsrG I	T`GTAC,A	4297					
Mlu I	A`CGCG,T	4303	PNC4: sites sorted by name:				
Pme I	CTTT AAAC	4312					

Aat II	(12)	2014	2067	2150	2336					3408	3453	3697	4324
		2912	2965	3048	3234					4448	4916	5275	5286
		3819	3872	3955	4141					6597	6850	7185	8511
Acc I	(1)	4292								504	868	1979	2101
Acc65 I	(2)	565	2480			Bgl I	(13)			2172	2877	2999	3070
Aci I	(112)	315	336	348	370					3784	3906	3977	7115
		393	578	763	775					8462			
		784	796	806	817	Blp I	(1)			8139			
		863	1018	1081	1175	Bpm I	(2)			7065	8082		
		1239	1340	1343	1583	Bsa I	(2)			4543	7056		
		1623	1628	1678	1694	BsaA I	(8)			1413	2229	3127	4034
		1720	1776	1835	1889					4331	5012	5070	8587
		1893	1947	1975	1987	BsaH I	(15)			1109	1811	2011	2064
		2001	2168	2259	2292					2147	2333	2909	2962
		2396	2417	2511	2520					3045	3231	3816	3869
		2746	2770	2845	2873					3952	4138	7884	
		2885	2899	3066	3157	BsaJ I	(42)			289	290	339	340
		3190	3294	3315	3390					403	476	502	526
		3392	3418	3427	3653					627	699	822	857
		3677	3752	3780	3792					866	915	1272	1541
		3806	3973	4064	4097					2249	2594	3147	3390
		4201	4222	4841	4864					3501	4054	4547	4695
		4886	4898	4919	5103					4756	4829	4892	4893
		5136	5170	5378	5391					4942	4943	5410	5521
		5540	5647	5652	5700					5841	6262	7515	7538
		5737	5792	5895	5951					7721	7752	8059	8123
		5961	5985	6028	6035					8262	8604		
		6056	6147	6175	6302	BsaW I	(10)			352	1140	2477	4880
		6321	6442	6552	6687					5548	5560	6308	6455
		6696	7058	7149	7340					7286	8296		
		7386	7653	7673	7841	BseR I	(1)			911			
		7938	7950	8017	8080	Bsg I	(1)			5652			
		8276	8279	8357	8404	BsiC I	(2)			1791	4318		
Afe I	(1)	3406				BsiE I	(8)			1018	1893	3418	5107
Afl II	(1)	963								6018	6442	7365	8211
Afl III	(2)	4303	6102			BsiHKA I	(5)			1222	1412	5165	6420
Aha II	(15)	1109	1811	2011	2064					8109			
		2147	2333	2909	2962	BsiW I	(1)			51			
		3045	3231	3816	3869	Bsm I	(2)			4443	5247		
		3952	4138	7884		BsmA I	(6)			959	2322	3220	4127
Ahd I	(1)	6995								4542	7057		
Alu I	(29)	16	591	879	933	BsmF I	(23)			281	291	410	609
		1215	1673	2455	3353					681	745	1260	1792
		3386	4260	4529	5163					2064	2215	2383	2962
		5289	5332	5767	5862					3113	3281	3869	4020
		5926	6044	6270	6360					4188	4565	4648	4822
		6406	6663	7184	7284					4941	4951	8386	
		7347	7594	8024	8138	BsoF I	(65)			14	326	329	336
		8510								387	454	521	863
Alw I	(22)	434	1287	1354	1533					1018	1070	1081	1171
		2470	2488	2499	2790					1176	1213	1254	1341
		3368	3406	3697	4275					1344	1347	1583	1679
		4801	5305	6664	6750					1720	1734	1835	1890
		6750	6847	6848	7312					1893	2511	3418	4682
		8289	8318							4781	4848	4899	4906
AlwN I	(3)	2786	3693	6518						4909	5171	5290	5392
Apa I	(1)	4727								5423	5426	5541	5653
ApaL I	(2)	6416	8105							5700	5927	6008	6026
Apo I	(5)	175	233	4285	4413					6029	6147	6302	6445
		8573								6510	6513	6719	7047
Asc I	(1)	2499								7386	7413	7508	7651
Ase I	(5)	122	5638	5873	5932					7736	7780	7996	7951
		7167								8018	8168	8277	8357
Asp718	(2)	565	2480							8454			
Ava I	(8)	339	377	403	4829	Bsp120 I	(1)			4723			
		4855	4893	7722	8626	Bsp1286 I	(1)			1412			
Ava II	(7)	355	1625	4878	7133	BspH I	(1)			6822			
		7355	7629	8270		BspM I	(4)			996	1377	1827	8177
Avr II	(1)	915				BspM II	(2)			5548	5560		
BamH I	(1)	2492				Bsr I	(24)			801	1052	1253	2185
Ban I	(11)	565	1108	1143	2354					2485	2493	3083	3990
		2480	2602	3252	3509					4600	4710	5531	5903
		4159	5846	6943						6509	6522	6636	7042
Ban II	(7)	347	1474	2755	3662					7160	7203	7470	7565
		4727	4893	5165						7630	8368	8464	8486
Bbe I	(1)	1112				BsrB I	(7)			350	1722	1776	1889
Bbs I	(2)	2726	3633							4886	5794	6035	
Bbv I	(19)	25	337	340	398	BsrD I	(5)			1342	7056	7230	8179
		532	1182	1224	1745					8472			
		4693	4792	6521	6524	BsrG I	(1)			4297			
		6730	7424	7662	7747	BssH II	(4)			1506	2499	5741	8554
		7791	7807	8179		BssS I	(2)			1701	6275		
Bbv II	(2)	2725	3632			BstB I	(2)			1791	4318		
Bcl I	(3)	2524	3431	8028		BstE II	(1)			7990			
Bcn I	(16)	341	342	405	406	BstN I	(28)			291	477	629	684
		1114	1274	4549	4698					701	1496	1979	2172
		4831	4832	4895	4896					2596	2781	2877	3070
		5735	6483	7179	7526					3503	3688	3784	3977
Bfa I	(20)	17	28	318	513					4628	4686	4758	4944
		916	970	2546	2790					5522	5689	5842	6130

		5734	5820	6309	6456	Nae I	(4)	384	1611	4852	8481
		6482	6672	7076	7110	Nar I	(1)	1109			
		7177	7287	7524	8297	Nci I	(16)	340	341	404	405
		8427	8480					1113	1273	4548	4697
Hph I	(13)	1288	2264	3162	4069			4830	4831	4894	4895
		5510	6839	7066	7480			5734	6482	7178	7525
		7538	7854	8001	8087	Nco I	(6)	526	822	1541	2249
		8594						3147	4054		
Kas I	(1)	1108				Nde I	(4)	2123	3021	3928	4336
Kpn I	(2)	569	2484			NgoM I	(4)	382	1609	4850	8479
Mae I	(20)	17	28	318	513	Nla III	(36)	71	88	530	663
		916	970	2546	2790			735	826	983	1328
		3408	3453	3697	4324			1514	1545	1571	2193
		4448	4916	5275	5286			2253	2737	3091	3151
		6597	6850	7185	8511			3644	3998	4058	4489
Mae II	(36)	50	54	304	1225			5026	5086	5249	5398
		1412	2011	2023	2064			5462	5486	5716	5760
		2147	2228	2333	2909			6106	6826	7317	7327
		2921	2962	3045	3126			7405	7441	7684	8640
		3231	3816	3828	3869	Nla IV	(24)	346	567	633	705
		3952	4033	4138	4330			1110	1145	2356	2482
		4930	5011	5069	5434			2494	2604	3254	3511
		5451	5668	6805	7221			4161	4725	4890	5848
		7910	8396	8586	8655			6134	6173	6945	7039
Mae III	(33)	46	248	1229	1535			7080	7291	7936	8301
		1950	2037	2386	2848	Not I	(1)	1890			
		2935	3284	3755	3842	Nsi I	(3)	665	737	5247	
		4191	4387	5065	5125	Nsp7524 I	(8)	84	659	731	1510
		5728	6458	6521	6637			2733	3640	5245	6102
		6920	7251	7309	7462	NspB II	(11)	591	1215	2522	3392
		7527	7658	7745	7789			3429	5647	5926	6444
		7984	7990	8092	8422			6689	7653	8276	
		8660				NspH I	(8)	88	663	735	1514
Mbo I	(37)	427	1280	1358	1439			2737	3644	5249	6106
		1448	1526	2474	2492	Pac I	(1)	3400			
		2524	2783	3372	3410	PaeR7 I	(1)	8626			
		3431	3690	4279	4348	Pal I	(36)	498	507	531	856
		4805	5298	6668	6743			862	871	914	1017
		6754	6762	6840	6852			1191	1582	1609	1834
		6957	7298	7316	7362			1892	1973	2166	2510
		7845	8028	8208	8218			2871	3064	3417	3778
		8293	8311	8539	8560			3971	4725	5481	5517
		8598						5943	6117	6128	6146
Mbo II	(15)	231	933	1469	1679			6580	7038	7118	7385
		1761	2730	3637	5369			7919	7953	8483	8549
		5974	6763	6836	8186	Ple I	(1)	6481			
		8545	8548	8581		Pme I	(1)	4312			
Mlu I	(1)	4303				Psp1406 I	(1)	7221			
Mme I	(3)	6316	6500	8548		PspA I	(4)	339	403	4829	4893
Mnl I	(57)	103	258	318	446	Pst I	(4)	6	471	1162	4769
		508	544	551	568	Pvu I	(2)	7365	8211		
		846	852	875	881	Pvu II	(3)	591	1215	5926	
		889	892	904	1024	Rsa I	(30)	53	567	1415	2108
		1160	1517	1709	2430			2133	2188	2221	2272
		2540	2582	2628	2703			2429	2482	2488	3006
		2760	3328	3447	3489			3031	3086	3119	3170
		3535	3610	3667	4235			3327	3913	3938	3993
		4657	4790	4918	5162			4026	4077	4234	4299
		5348	5375	5405	5669			4333	7477	7710	7923
		5951	6000	6210	6283			7931	8414		
		6534	6934	7015	7161	Rsr II	(3)	355	1625	4878	
		7367	7506	7730	7827	Sac I	(1)	5165			
		7867	8275	8314	8559	Sac II	(1)	3393			
		8634				Sal I	(1)	4291			
Msc I	(2)	1191	5481			Sap I	(3)	1453	1663	5986	
Mse I	(29)	22	57	122	138	Sau3A I	(37)	427	1280	1358	1439
		212	964	3396	3400			1448	1526	2474	2492
		4311	4343	4569	4576			2524	2783	3372	3410
		5053	5060	5281	5494			3431	3690	4279	4348
		5638	5873	5932	6808			4805	5298	6668	6743
		6860	6865	6879	6932			6754	6762	6840	6852
		7167	7206	7823	8339			6957	7298	7316	7362
		8652						7845	8028	8208	8218
Msl I	(10)	1546	1828	1867	2254			8293	8311	8539	8560
		3152	4059	4732	7247			8598			
		7406	8102			Sau96 I	(18)	355	1625	1972	2165
		340	353	358	383			2870	3063	3777	3970
Msp I	(42)	404	1014	1091	1113			4723	4724	4878	7037
		1141	1272	1362	1429			7116	7133	7355	7629
		1610	2478	2496	3414			8270	8482		
		4547	4697	4830	4851	Sca I	(1)	2488			
		4876	4881	4894	5549	ScrF I	(44)	291	340	341	404
		5561	5602	5612	5626			405	477	629	684
		5734	5820	6309	6456			701	1113	1273	1496
		6482	6672	7076	7110			1979	2172	2596	2781
		7177	7287	7524	8297			2877	3070	3503	3688
		8427	8480					3784	3977	4548	4628
MspAl I	(11)	591	1215	2522	3392			4686	4697	4758	4830
		3429	5647	5926	6444			4831	4894	4895	4944
		6689	7653	8276				5522	5689	5734	5842

		6130	6251	6264	6482	BsrD I	GCAATG, 8	5	BsrG I	T`GTAC,A	1
		7178	7484	7525	8061	BssH II	G`CGCG,C	4	BssS I	C`TCGT,G	2
Sec I	(42)	289	290	339	340	Bst1107 I	GTA TAC	-	BstB I	TT`CG,AA	2
		403	476	502	526	BstE II	G`GTNAC,C	1	BstN I	CC`W,GG	28
		627	699	822	857	BstU I	CG CG	26	BstX I	CCAN,NNN`NTGG	2
		866	915	1272	1541	BstY I	R`GATC,Y	14	Bsu36 I	CC`TNA,GG	-
		2249	2594	3147	3390	Cac8 I	GCN NGC	56	Cfr10 I	R`CCGG,Y	9
		3501	4054	4547	4695	Clal I	AT`CG,AT	1	Csp6 I	G`TA,C	30
		4756	4829	4892	4893	Dde I	C`TNA,G	12	Dpn I	GA TC	37
		4942	4943	5410	5521	DpnII	`GATC,	37	Dra I	TTT AAA	5
		5841	6262	7515	7538	Dra III	CAC,NNN`GTG	3	Drd I	GACNN,NN`NNGTC	4
		7721	7752	8059	8123	Dsa I	C`CRYG,G	11	Eae I	Y`GGCC,R	13
		8262	8604			Eag I	C`GGCC,G	3	Ear I	CTCTTC 7/10	3
SfaN I	(26)	380	671	743	1068	Eco47 III	AGC GCT	1	Eco57 I	CTGAAG 21/19	4
		1323	1407	1471	1539	Eco72 I	CAC GTG	-	EcoN I	CCTNN`N,NNAGG	1
		1746	2247	2652	2734	EcoO109 I	RG`GNC,CY	1	EcoR I	G`AATT,C	1
		3145	3559	3641	4052	EcoR II	`CCWGG,	28	EcoR V	GAT ATC	1
		4414	4852	5300	5355	Ehe I	GGC GCC	1	Esp I	GC`TNA,GC	1
		5589	5687	6198	7250	Fnu4H I	GC`N,GC	65	Fok I	GGATG 14/18	20
		7443	7735			Fse I	GG,CCGG`CC	-	Fsp I	TGC GCA	2
Sfc I	(8)	2	467	1158	4765	Gdi II	`YGGC,CG	14	Gsu I	CTGGAG 21/19	2
		6367	6558	7236	8085	Hae I	WGG CCW	10	Hae II	R,GC`C`Y	11
Sfi I	(2)	504	868			Hae III	GG CC	36	Hga I	GACGC 9/14	11
Sma I	(4)	341	405	4831	4895	HgiA I	G,WGCW`C	5	HgiE II	ACCNNNNNNGGT -1/133	2
SnaB I	(4)	2229	3127	4034	4331	Hha I	G,CG`C	44	HinC III	GTY RAC	2
Sph I	(6)	663	735	1514	2737	Hind II	GTY RAC	2	Hind III	A`AGCT,T	2
		3644	5249			Hinf I	G`ANT,C	20	HinI I	GR`CG,YC	15
Spl I	(1)	51				HinP I	G`CG,C	44	Hpa I	GTT AAC	-
Srf I	(2)	405	4831			Hpa II	C`CG,G	42	Hph I	GGTA 12/11	13
Ssp I	(2)	4573	5233			Kas I	G`GCGC,C	1	Kpn I	G,GTAC`C	2
Stu I	(2)	498	914			Mae I	C`TA,G	20	Mae II	A`CG,T	36
Sty I	(10)	526	822	915	1541	Mae III	`GTNAC,	33	Mbo I	`GATC,	37
		2249	3147	4054	7515	Mbo II	GAAGA 12/11	15	Mlu I	A`CGCG,T	1
		8262	8604			Mme I	TCCRAC 25/23	3	Mnl I	CCTC 10/10	57
SwA I	(1)	4344				Msc I	TGG CCA	2	Mse I	T`TA,A	29
Taq I	(22)	108	958	1222	1378	Msl I	CAYNN NNRTG	10	Msp I	C`CG,G	42
		1402	1438	1600	1791	MspAl I	CMG CKG	11	Mun I	C`AATT,G	-
		2533	3379	3440	4292	Nae I	GCC GGC	4	Nar I	GG`CG,CC	1
		4318	6202	7499	7759	Nci I	CC`S,GG	16	Nco I	C`CATG,G	6
		7859	7890	7902	8196	Nde I	CA`TA,TG	4	NgoM I	G`CGCG,C	4
		8211	8627			Nhe I	G`CTAG,C	-	Nla III	,`CATG`	36
Tfi I	(10)	937	1594	1728	4320	Nla IV	GGN NCC	24	Not I	GC`GGCC,GC	1
		4710	5204	5465	5937	Nru I	TCG CGA	-	Nsi I	A,TGCA`T	3
		6077	8074			Nsp7524 I	R`CATG,Y	8	NspB II	CMG CKG	11
Tsp45 I	(10)	46	1229	1535	5065	NspH I	R,CATG`Y	8	Pac I	TTA,AT`TAA	1
		5125	7251	7462	7527	Paer7 I	C`TCGA,G	1	Pal I	GG CC	36
		7990	8092			Pf1M I	CCAN,NNN`NTGG	-	Ple I	GAGTC 9/10	1
Tth111 I	(1)	1227				Pme I	CTTT AAAC	1	Pml I	CAC GTG	-
Tth111 II	(10)	198	1545	2556	3463	PpuM I	RG`GWC,CY	-	Psp1406 I	AA`CG,TT	1
		5160	6691	6700	6730	PspA I	C`CCGG,G	4	Pst I	C,TGCA`G	4
		7747	7754			Pvu I	CG,AT`CG	2	Pvu II	CAG CTG	3
Vsp I	(5)	122	5638	5873	5932	Rsa I	GT AC	30	Rsr II	CG`GWC,CG	3
		7167				Sac I	G,AGCT`C	1	Sac II	CC,GC`GG	1
Xba I	(1)	4323				Sal I	G`TCGA,C	1	Sap I	GCTCTTC 8/11	3
Xho I	(1)	8626				Sau3A I	`GATC,	37	Sau96 I	G`GNC,C	18
Xho II	(14)	1280	1526	2474	2492	Sca I	AGT ACT	1	ScrF I	CC`N,GG	44
		2783	3372	3410	3690	Sec I	C`CNNG,G	42	SfaN I	GCATC 9/13	26
		4279	6743	6754	6840	Sfc I	C`TRYA,G	8	Sfi I	GGCCN,NNN`NGGCC	2
Xma I	(4)	339	403	4829	4893	Sma I	CCC GGG	4	SnaB I	TAC GTA	4
Xma III	(3)	1015	1890	3415		Spe I	A`CTAG,T	-	Sph I	G,CATG`C	6
						Spl I	C`GTAC,G	1	Srf I	GCCC GGGC	2
						Ssp I	AAT ATT	2	Stu I	AGG CCT	2
						Sty I	C`CWWG,G	10	Swa I	ATTT AAAT	1
						Taq I	T`CG,A	22	Tfi I	G`AWT,C	10
						Tsp45 I	`GTSAC,	10	Tth111 I	GACN`N,NGTC	1
						Tth111 II	CAARCA 16/14	10	Vsp I	AT`TA,AT	5
						Xba I	T`CTAG,A	1	Xca I	GTA TAC	-
						Xcm I	CCANNNN,N`NNNNTGG-	-	Xho I	C`TCGA,G	1
						Xho II	R`GATC,Y	14	Xma I	C`CCGG,G	4
						Xma III	C`GGCC,G	3	Xmn I	GAANN NNTTC	-

Site usage in PNC4:

Aat II	G,ACGT`C	12	Acc I	GT`MK,AC	1
Acc65 I	G`GTAC,C	2	Aci I	C`CG,C	112
Afe I	AGC GCT	1	Afl II	C`TTAA,G	1
Afl III	A`CRYG,T	2	Age I	A`CCGG,T	-
Aha II	GR`CG,YC	15	Ahd I	GACNN,N`NNGTC	1
Alu I	AG CT	29	Alw I	GGATC 8/9	22
AlwN I	CAG,NNN`CTG	3	Apa I	G,GGCC`C	1
Apal I	G`TGCA,C	2	Apo I	R`AATT,Y	5
Asc I	GG`CGCG,CC	1	Ase I	AT`TA,AT	5
Asp718	G`GTAC,C	2	Ava I	C`YCGR,G	8
Ava II	G`GWC,C	7	Avr II	C`CTAG,G	1
BamH I	G`GATC,C	1	Ban I	G`GYRC,C	11
Ban II	G,RCGY`C	7	Bbe I	G,CGC`C	1
Bbs I	GAAGAC 8/12	2	Bbv I	GCAGC 13/17	19
Bbv II	GAAGAC 7/11	2	Bcl I	T`GATC,A	3
Bcn I	CC,S`GG	16	Bfa I	C`TA,G	20
Bgl I	GCCN,NNN`NGGC	13	Bgl II	A`GATC,T	-
Blp I	GC`TNA,GC	1	Bpm I	CTGGAG 22/20	2
Bsa I	GGTCTC 7/11	2	BsaA I	YAC GTR	8
BsaB I	GATNN NNATC	-	BsaH I	GR`CG,YC	15
BsaJ I	C`CNNG,G	42	BsaW I	W`CCGG,W	10
BseR I	GAGGAG 16/14	1	Bsg I	GTGCAG 22/20	1
BsiC I	TT`CG,AA	2	BsiE I	CG,RY`CG	8
BsiHKA I	G,WGCW`C	5	BsiW I	C`GTAC,G	1
Bsm I	GAATG,C 7	2	BsmA I	GTCTC`/9	6
BsmB I	CGTCTC 7/11	-	BsmF I	GGGAC 15/19	23
BsoF I	GC`N,GC	65	Bsp120 I	G`GGCC,C	1
Bspl286 I	G, DGCH`C	1	BspH I	T`CATG,A	1
BspM I	ACCTGC 10/14	4	BspM II	T`CCGG,A	2
Bsr I	ACT,GG`	24	BsrB I	GAG CGG	7