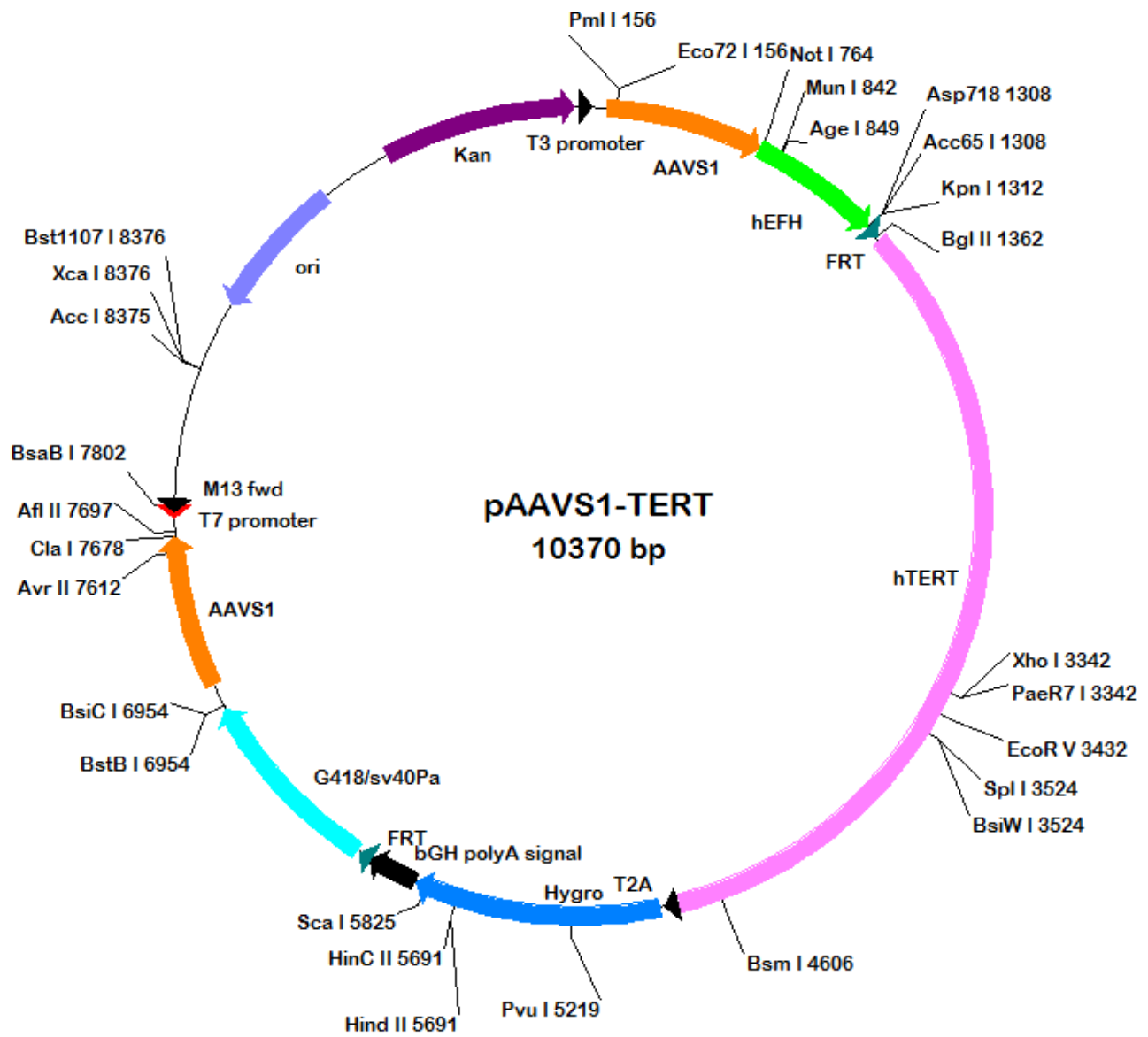


Vector: pAAVS1-TERT

Antibiotic Selection: Kan

Creator(s): Li Li & Xue Hu, Molecular Oncology Lab of The University of Chicago Medical Center

Date of Construction: May, 2016



pAAVS1-TERT Full-Length Sequence

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Unique enzymes in pAAVS1-TERT:

pAAVS1-TERT Vector

		6064	10352				5063	5198	5219	5228	
Bbv I	(31)	504	1433	1506	1748		5798	6181	8519	8943	
		2406	2653	2736	2756		9595				
		3177	3210	3914	4440	BsiHKA I	(16)	133	576	2600	2978
		4692	4741	4944	5202		3371	3763	4372	4801	
		5595	5722	6345	6387		5139	5441	6385	6575	
		6908	7392	8205	8254		8423	8921	9799	9989	
		8351	9022	9025	9231	BsiW I	(1)	3524			
		9759	9801	10322		Bsm I	(1)	4606			
Bbv II	(6)	577	3793	4086	4111	BsmA I	(15)	323	399	1153	2351
		6063	10353				2456	3065	3339	3668	
Bcn I	(33)	201	600	601	1164		3716	4251	4922	7104	
		1508	1930	2008	2033		7238	8247	9519		
		2034	2153	2154	2345	BsmB I	(5)	400	3340	3669	4923
		2659	2660	3396	4189		8246				
		4228	4700	4701	4739	BsmF I	(21)	315	638	678	709
		4848	5642	5758	6277		767	798	1516	1570	
		6437	7290	7796	7944		1996	2306	2324	2341	
		8250	8285	8984	9691		2511	3967	4033	4716	
		9851					5772	6423	6955	7876	
Bfa I	(17)	518	528	580	750		9837				
		857	1008	1134	1196	BsoF I	(143)	148	493	634	764
		1342	1946	5884	6112		767	770	988	1047	
		7097	7474	7613	9098		1062	1093	1381	1395	
		9351					1417	1422	1441	1444	
Bgl I	(10)	1808	1924	2085	2130		1462	1486	1495	1511	
		2441	2810	3261	3404		1567	1577	1630	1650	
		4723	4738				1684	1737	1792	1795	
Bgl II	(1)	1362					1798	1803	1842	1872	
Blp I	(2)	405	575				1894	1897	1916	2102	
Bpm I	(14)	102	623	2578	2799		2277	2311	2395	2398	
		3138	3667	4200	4216		2401	2545	2563	2620	
		4342	4741	5523	5577		2627	2642	2684	2725	
		7192	8132				2728	2745	2832	2890	
Bsa I	(5)	1152	2350	2455	3064		2925	2935	2969	3043	
		3715					3166	3169	3199	3265	
BsaA I	(6)	156	3590	4644	6576		3268	3388	3460	3484	
		8357	9990				3626	3895	3903	3961	
BsaB I	(1)	7802					4062	4170	4177	4263	
BsaH I	(14)	1300	1464	1962	2122		4312	4396	4426	4429	
		3229	3390	3407	3797		4559	4681	4727	4730	
		4556	4879	5847	6272		4785	4933	5010	5063	
		6974	9686				5191	5222	5225	5481	
BsaJ I	(75)	87	399	560	598		5584	5632	5635	5711	
		640	680	681	919		5795	6181	6233	6244	
		1183	1467	1475	1476		6334	6339	6376	6417	
		1552	1553	1698	1712		6504	6507	6510	6746	
		2006	2015	2016	2030		6842	6883	6897	6998	
		2031	2089	2141	2151		7335	7346	7378	7381	
		2178	2270	2323	2324		7635	7816	7897	8194	
		2342	2485	2494	2657		8197	8243	8340	8393	
		2669	2670	2690	2749		8509	8527	8530	8648	
		2799	2864	2865	2946		8803	8946	9011	9014	
		2947	3393	3402	3473		9220	9595	9647	9658	
		3539	3611	3630	3861		9748	9753	9790	9831	
		4034	4041	4115	4116		9918	9921	9924	10160	
		4149	4162	4193	4260		10256	10297	10311		
		4550	4577	4653	4698	Bsp120 I	(7)	601	1471	1694	1704
		4699	4718	4845	5207		2144	2292	3470		
		5408	5563	5632	5932	Bsp1286 I	(4)	133	2978	6575	9989
		6435	6704	7234	7612	BspH I	(2)	9323	9520		
		8763	9849	10118		BspM I	(14)	1751	1838	2208	2498
BsaW I	(11)	125	774	849	3104		2745	3722	4335	5168	
		5076	5613	5749	6303		6159	6540	6990	7292	
		8809	8956	9717			9573	9954			
BseR I	(11)	200	2055	2367	2590	BspM II	(4)	125	5076	5613	5749
		2707	2710	3004	3753	Bsr I	(24)	884	905	1534	2444
		7078	7417	7578			2538	3018	3856	4245	
Bsg I	(8)	133	967	1513	2743		4795	5340	5505	6215	
		2995	3184	4222	4606		6416	7530	7782	7912	
BsiC I	(1)	6954					7936	8351	8382	9010	
BsiE I	(13)	767	1567	2969	3271		9023	9137	9629	9830	

pAAVS1-TERT Vector

BsrB I	(12)	171	772	1778	2118	Csp6 I	(19)	68	388	712	899
		3381	5246	5604	6885			1309	1902	2349	2760
		6939	8536	9518	10299			3030	3495	3525	3591
BsrD I	(2)	6505	9919					3690	4404	5771	5824
BssH II	(4)	1383	1520	1844	6669			6577	8410	9991	
BssS I	(6)	2455	4955	5434	6864	Dde I	(34)	167	294	405	575
		8776	10278					1056	1150	1201	1922
Bst1107 I	(1)	8376						2108	2379	2416	2425
BstB I	(1)	6954						2839	3046	3488	3733
BstE II	(4)	95	466	1755	2631			4027	4052	4663	4684
BstN I	(52)	401	438	561	641			4749	5233	5994	6935
		682	1468	1477	1540			7080	7201	7295	7330
		1554	1594	1882	1983			7445	7873	8413	8878
		2017	2091	2142	2325			9287	9453		
		2481	2487	2495	2671	Dpn I	(35)	175	646	1284	1364
		2719	2751	2801	2817			2995	3868	4387	4900
		2866	2948	2998	3213			5033	5218	5231	5321
		3403	3424	3444	3475			5628	5748	6134	6445
		3541	3862	4036	4117			6523	6604	6613	6691
		4164	4195	4654	4720			7232	7369	7799	9171
		4768	5934	6659	7171			9246	9257	9265	9343
		7235	7372	7547	7625			9355	9460	9859	9937
		8631	8752	8765	10073			10018	10027	10105	
BstU I	(50)	871	1040	1085	1383	DpnII	(35)	173	644	1282	1362
		1385	1433	1499	1520			2993	3866	4385	4898
		1522	1649	1654	1681			5031	5216	5229	5319
		1700	1805	1846	2048			5626	5746	6132	6443
		2163	2253	2290	2310			6521	6602	6611	6689
		2578	3387	3523	4015			7230	7367	7797	9169
		4262	4478	4775	4784			9244	9255	9263	9341
		4876	5065	5200	5311			9353	9458	9857	9935
		5377	5443	5592	5634			10016	10025	10103	
		5794	6338	6639	6671	Dra I	(6)	105	1145	1369	7686
		7054	7345	8135	8204			9362	9381		
		8206	8309	8650	9231	Dra III	(4)	156	3828	5143	5436
		9752	10053			Drd I	(7)	5359	5740	6299	7348
BstX I	(5)	2229	2324	2472	2807			8298	8711	9713	
		6993				Dsa I	(13)	87	1698	2178	2270
BstY I	(18)	173	644	1282	1362			3611	3630	4149	4260
		2993	3866	4385	6132			5207	5563	5632	6704
		6443	6689	7230	7797			10118			
		9244	9255	9341	9353	Eae I	(25)	764	1448	1564	2311
		9857	10103					2966	2999	3268	4791
Bsu36 I	(5)	1056	2379	2839	4027			4823	5060	5225	5478
		7080						5795	6178	6352	6743
Cac8 I	(85)	354	529	1009	1023			6770	6995	7300	7632
		1044	1207	1235	1385			7780	9592	9766	10157
		1448	1483	1522	1549			10184			
		1645	1667	1698	1732	Eag I	(9)	764	1564	2966	3268
		1835	1839	1846	1891			5060	5225	5795	6178
		2023	2027	2061	2251			9592			
		2281	2292	2521	2617	Ear I	(10)	538	3103	3151	3796
		2624	2737	2774	2778			6616	6826	7468	8487
		2782	2788	2876	2917			10030	10240		
		3218	3367	3383	3470	Eco47 III	(2)	2530	7859		
		3567	3598	3730	3780	Eco57 I	(11)	601	1022	1344	1626
		4145	4174	4400	4563			4335	4836	6417	6849
		4823	4827	5180	5381			9150	9831	10263	
		5441	5621	5784	5892	Eco72 I	(1)	156			
		6069	6073	6166	6352	EcoN I	(5)	860	1055	3772	4026
		6571	6637	6643	6671			4396			
		6675	6716	6720	6774	EcoO109 I	(17)	191	272	602	1471
		7820	7862	8080	8534			1472	1503	1694	1704
		8620	8657	9217	9580			1705	2010	2138	2293
		9766	9985	10051	10057			2483	3440	3477	4031
		10085	10089	10130	10134			4113			
		10188				EcoR I	(2)	116	5098		
Cfr10 I	(15)	686	849	1073	1205	EcoR II	(52)	399	436	559	639
		1296	2644	2786	4143			680	1466	1475	1538
		4561	4825	5193	6591			1552	1592	1880	1981
		6772	10005	10186				2015	2089	2140	2323
Cla I	(1)	7678						2479	2485	2493	2669

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		2717	2749	2799	2815			1669	1717	2804	3001
		2864	2946	2996	3211			3649	3778	3788	5206
		3401	3422	3442	3473			6354	7085	7302	7528
		3539	3860	4034	4115			7693	8618	8629	9081
		4162	4193	4652	4718			9768			
		4766	5932	6657	7169	Hae II	(16)	148	1180	1303	1467
		7233	7370	7545	7623			1916	2102	2447	2532
		8629	8750	8763	10071			3393	3410	4559	6275
EcoR V	(1)	3432						7861	8481	8851	9689
Ehe I	(7)	1301	1465	3391	3408	Hae III	(90)	112	274	303	352
		4557	6273	9687				603	686	746	766
Esp I	(2)	405	575					1061	1166	1450	1473
Fnu4H I	(143)	148	493	634	764			1531	1566	1621	1669
		767	770	988	1047			1696	1706	1717	1893
		1062	1093	1381	1395			1927	1932	1981	2005
		1417	1422	1441	1444			2021	2088	2146	2276
		1462	1486	1495	1511			2294	2313	2403	2430
		1567	1577	1630	1650			2484	2547	2686	2776
		1684	1737	1792	1795			2804	2968	3001	3216
		1798	1803	1842	1872			3270	3328	3398	3422
		1894	1897	1916	2102			3442	3472	3625	3649
		2277	2311	2395	2398			3778	3788	4114	4147
		2401	2545	2563	2620			4154	4172	4495	4549
		2627	2642	2684	2725			4565	4582	4726	4793
		2728	2745	2832	2890			4825	4850	5062	5206
		2925	2935	2969	3043			5227	5255	5407	5480
		3166	3169	3199	3265			5562	5797	6180	6354
		3268	3388	3460	3484			6745	6772	6997	7085
		3626	3895	3903	3961			7302	7528	7634	7693
		4062	4170	4177	4263			7782	8078	8618	8629
		4312	4396	4426	4429			8647	9081	9594	9768
		4559	4681	4727	4730			10159	10186		
		4785	4933	5010	5063	Hga I	(28)	318	1113	1566	1770
		5191	5222	5225	5481			1952	1984	2129	2168
		5584	5632	5635	5711			2615	3323	3590	4277
		5795	6181	6233	6244			4468	4685	4715	4906
		6334	6339	6376	6417			5358	5597	5742	5854
		6504	6507	6510	6746			6981	7350	7493	7598
		6842	6883	6897	6998			8140	8299	8713	9291
		7335	7346	7378	7381	HgiA I	(16)	133	576	2600	2978
		7635	7816	7897	8194			3371	3763	4372	4801
		8197	8243	8340	8393			5139	5441	6385	6575
		8509	8527	8530	8648			8423	8921	9799	9989
		8803	8946	9011	9014	HgiE II	(3)	5929	8421	9182	
		9220	9595	9647	9658	Hha I	(77)	147	799	871	1042
		9748	9753	9790	9831			1179	1274	1302	1385
		9918	9921	9924	10160			1387	1409	1421	1466
		10256	10297	10311				1499	1522	1524	1649
Fok I	(35)	311	328	404	772			1654	1683	1736	1802
		1052	1982	2253	2286			1846	1848	1876	1915
		2502	3232	3520	3523			2048	2101	2241	2255
		3751	3868	3991	4498			2446	2531	2580	2786
		4548	4750	5224	5597			2929	2939	3387	3392
		6093	6596	6621	7062			3409	3449	3523	3833
		7287	7647	7651	7824			4478	4558	4777	4784
		7886	7964	8150	8291			5014	5067	5311	5379
		9462	10010	10035				5594	5721	5794	6266
Fsp I	(6)	1420	1735	2938	3832			6274	6338	6375	6641
		6374	9788					6671	6673	6901	7312
Gdi II	(29)	763	765	1563	1565			7860	8206	8309	8339
		2312	2965	2967	3267			8480	8513	8783	8850
		3269	4792	4822	5059			8950	9124	9233	9680
		5061	5224	5226	5477			9688	9752	9789	10055
		5794	5796	6177	6179			10315			
		6742	6769	6994	7631	HinC II	(1)	5691			
		7779	9591	9593	10156	Hind II	(1)	5691			
		10183				Hinf I	(26)	460	1080	1199	2499
Gsu I	(14)	101	624	2577	2800			3140	3236	3945	4623
		3137	3668	4201	4215			4686	4837	4951	5073
		4343	4740	5522	5576			5273	5524	6757	6891
		7191	8131					6943	7140	7761	8159
Hae I	(21)	112	303	352	1450			8503	8578	8974	9491

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		7289	7795	7942	8249			8242	8607	10091
		8283	8810	8957	8983	PaeR7 I	(1)	3342		
		9173	9591	9668	9690	Pal I	(90)	112	274	303 352
		9718	9849	9939	10006			603	686	746 766
		10187						1061	1166	1450 1473
MspA1 I	(22)	1001	1394	1446	1700			1531	1566	1621 1669
		1871	1899	2397	2619			1696	1706	1717 1893
		2727	3168	3732	4262			1927	1932	1981 2005
		4683	5182	5491	5634			2021	2088	2146 2276
		6378	8196	8315	8945			2294	2313	2403 2430
		9190	9792					2484	2547	2686 2776
Mun I	(1)	842						2804	2968	3001 3216
Nae I	(7)	1207	2788	4145	4563			3270	3328	3398 3422
		4827	6774	10188				3442	3472	3625 3649
Nar I	(7)	1300	1464	3390	3407			3778	3788	4114 4147
		4556	6272	9686				4154	4172	4495 4549
Nci I	(33)	200	599	600	1163			4565	4582	4726 4793
		1507	1929	2007	2032			4825	4850	5062 5206
		2033	2152	2153	2344			5227	5255	5407 5480
		2658	2659	3395	4188			5562	5797	6180 6354
		4227	4699	4700	4738			6745	6772	6997 7085
		4847	5641	5757	6276			7302	7528	7634 7693
		6436	7289	7795	7943			7782	8078	8618 8629
		8249	8284	8983	9690			8647	9081	9594 9768
		9850						10159	10186	
Nco I	(5)	87	3630	5207	6704	PflM I	(5)	1539	2486	2953 7170
		10118						7630		
Nde I	(2)	5305	8426			Ple I	(5)	1088	4694	4845 7769
NgoM I	(7)	1205	2786	4143	4561			8982		
		4825	6772	10186		Pme I	(3)	105	1369	7686
Nhe I	(2)	527	1007			Pml I	(1)	156		
Nla III	(37)	20	91	231	552	PpuM I	(6)	191	1503	2010 2138
		629	1380	2878	3285			3477	4031	
		3634	3696	3816	3924	Psp1406 I	(3)	964	3307	7930
		4287	4421	4857	5211	PspA I	(5)	598	2031	2151 2657
		5294	5329	6075	6146			4698		
		6491	6677	6708	6734	Pst I	(9)	1634	2894	3719 3904
		7730	7950	8014	8077			4400	4430	5192 6325
		8242	8347	8607	9327			7382		
		9524	9905	10091	10122	Pvu I	(1)	5219		
		10148				Pvu II	(9)	1001	1871	2397 2727
Nla IV	(75)	85	175	192	250			3168	4683	6378 8196
		273	566	603	646			9792		
		666	745	779	854	Rsa I	(19)	69	389	713 900
		906	1110	1189	1301			1310	1903	2350 2761
		1310	1465	1472	1473			3031	3496	3526 3592
		1474	1504	1505	1695			3691	4405	5772 5825
		1696	1705	1706	1707			6578	8411	9992
		1865	1933	1953	1987	Rsr II	(3)	5263	6788	10202
		2011	2012	2139	2146	Sac I	(2)	576	3763	
		2294	2295	2478	2548	Sac II	(3)	1701	4263	5635
		2572	2687	2795	2814	Sap I	(7)	538	6616	6826 7468
		2944	3300	3391	3408			8487	10030	10240
		3472	3479	3868	3879	Sau3A I	(35)	173	644	1282 1362
		4033	4192	4548	4557			2993	3866	4385 4898
		4788	4851	5431	5454			5031	5216	5229 5319
		5638	5754	5942	6134			5626	5746	6132 6443
		6273	6308	7175	7221			6521	6602	6611 6689
		7232	7892	8635	8674			7230	7367	7797 9169
		9446	9687	9722				9244	9255	9263 9341
Not I	(1)	764						9353	9458	9857 9935
Nsp7524 I	(11)	625	2874	3692	4283			10016	10025	10103
		4417	6071	6673	7946	Sau96 I	(66)	191	272	565 601
		8238	8603	10087				602	665	684 744
NspB II	(22)	1001	1394	1446	1700			1164	1471	1472 1503
		1871	1899	2397	2619			1530	1620	1694 1695
		2727	3168	3732	4262			1704	1705	1891 1926
		4683	5182	5491	5634			1931	1951	1979 2010
		6378	8196	8315	8945			2019	2087	2138 2144
		9190	9792					2145	2167	2274 2292
NspH I	(11)	629	2878	3696	4287			2293	2402	2429 2483
		4421	6075	6677	7950			2546	2685	2774 3215

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		3326	3420	3440	3470
		3471	3477	3615	4031
		4038	4113	4146	4190
		4229	4547	4564	4770
		4849	5254	5263	5405
		5804	6788	7441	7890
		8077	10202		
Sca I	(1)	5825			
ScrF I	(85)	200	401	438	561
		599	600	641	682
		1163	1468	1477	1507
		1540	1554	1594	1882
		1929	1983	2007	2017
		2032	2033	2091	2142
		2152	2153	2325	2344
		2481	2487	2495	2658
		2659	2671	2719	2751
		2801	2817	2866	2948
		2998	3213	3395	3403
		3424	3444	3475	3541
		3862	4036	4117	4164
		4188	4195	4227	4654
		4699	4700	4720	4738
		4768	4847	5641	5757
		5934	6276	6436	6659
		7171	7235	7289	7372
		7547	7625	7795	7943
		8249	8284	8631	8752
		8765	8983	9690	9850
		10073			
Sec I	(75)	87	399	560	598
		640	680	681	919
		1183	1467	1475	1476
		1552	1553	1698	1712
		2006	2015	2016	2030
		2031	2089	2141	2151
		2178	2270	2323	2324
		2342	2485	2494	2657
		2669	2670	2690	2749
		2799	2864	2865	2946
		2947	3393	3402	3473
		3539	3611	3630	3861
		4034	4041	4115	4116
		4149	4162	4193	4260
		4550	4577	4653	4698
		4699	4718	4845	5207
		5408	5563	5632	5932
		6435	6704	7234	7612
		8763	9849	10118	
SfaN I	(44)	211	364	561	751
		1033	1961	2481	3209
		3577	3730	3841	4131
		4920	5064	5131	5203
		5388	5618	5698	5720
		5990	6231	6486	6570
		6634	6702	6909	7266
		7803	7811	7907	7985
		8047	8270	8403	8441
		8479	8699	9645	9900
		9984	10048	10116	10323
Sfc I	(13)	1630	2890	3715	3900
		4100	4396	4426	5188
		6321	7378	7754	8868
		9059			
Sma I	(5)	600	2033	2153	2659
		4700			
Sph I	(4)	2878	6075	6677	10091
Spl I	(1)	3524			
Stu I	(7)	112	352	1717	2804
		3649	7085	7693	
Sty I	(8)	87	1183	3630	4550
		5207	6704	7612	10118

Taq I	(30)	33	1014	1156	3038
		3343	3752	3794	4626
		4886	4901	4910	4970
		5387	5600	5702	5727
		5871	6385	6541	6565
		6601	6763	6954	7678
		8703	9799	9955	9979
		10015	10177		
Tfi I	(14)	460	3140	3945	4951
		5073	5273	5524	6757
		6891	7140	8159	8578
		10171	10305		
Tsp45 I	(24)	95	466	1292	1755
		2173	2195	2631	3063
		3513	3993	4321	4635
		4658	5145	6392	6698
		7059	7152	7279	8044
		8257	8352	9806	10112
Tth111 I	(6)	3289	4915	5359	6390
		8350	9804		
Tth111 II	(14)	619	1223	2376	2555
		3926	4618	5075	5894
		6708	8065	9192	9201
		9231	10122		
Xba I	(3)	1341	6111	7473	
Xca I	(1)	8376			
Xcm I	(2)	2321	7543		
Xho I	(1)	3342			
Xho II	(18)	173	644	1282	1362
		2993	3866	4385	6132
		6443	6689	7230	7797
		9244	9255	9341	9353
		9857	10103		
Xma I	(5)	598	2031	2151	2657
		4698			
Xma III	(9)	764	1564	2966	3268
		5060	5225	5795	6178
		9592			
Xmn I	(2)	4021	8163		

Site usage in pAAVS1-TERT:

Aat II	G,ACGT`C	3	Acc I	GT`MK,AC	1
Acc65 I	G`GTAC,C	1	Aci I	C`CG,C	155
Afl II	C`TTAA,G	1	Afl III	A`CRYG,T	4
Age I	A`CCGG,T	1	Aha II	GR`CG,YC	14
Ahd I	GACNN,N`NNGTC	4	Alu I	AG CT	60
Alw I	GGATC 8/9	29	AlwN I	CAG,NNN`CTG	9
Apa I	G,GGCC`C	7	ApaL I	G`TGCA,C	6
Apo I	R`AATT,Y	2	Asc I	GG`CGCG,CC	-
Ase I	AT`TA,AT	-	Asp718	G`GTAC,C	1
Ava I	C`YCGR,G	12	Ava II	G`GWC,C	21
Avr II	C`CTAG,G	1	BamH I	G`GATC,C	5
Ban I	G`GYRC,C	17	Ban II	G,RCY`C	16
Bbe I	G,GCGC`C	7	Bbs I	GAAGAC 8/12	6
Bbv I	GCAGC 13/17	31	Bbv II	GAAGAC 7/11	6
Bcl I	T`GATC,A	-	Bcn I	CC,S`GG	33
Bfa I	C`TA,G	17	Bgl I	GCCN,NNN`NGGC	10
Bgl II	A`GATC,T	1	Blp I	GC`TNA,GC	2
Bpm I	CTGGAG 22/20	14	Bsa I	GGTCTC 7/11	5
BsaA I	YAC GTR	6	BsaB I	GATNN NNATC	1
BsaH I	GR`CG,YC	14	BsaJ I	C`CNNG,G	75
BsaW I	W`CCGG,W	11	BseR I	GAGGAG 16/14	11
Bsg I	GTGCG 22/20	8	BsiC I	TT`CG,AA	1
BsiE I	CG,RY`CG	13	BsiHKA I	G,WGCW`C	16
BsiW I	C`GTAC,G	1	Bsm I	GAATG,C 7	1
BsmA I	GTCTC`/9	15	BsmB I	CGTCTC 7/11	5
BsmF I	GGGAC 15/19	21	BsoF I	GC`N,GC	143
Bsp120 I	G`GGCC,C	7	Bsp1286 I	G,DGCH`C	4
BspH I	T`CATG,A	2	BspM I	ACCTGC 10/14	14
BspM II	T`CCGG,A	4	Bsr I	ACT,GG`	24
BsrB I	GAG CGG	12	BsrD I	GCAATG, 8	2

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BsrG I	T`GTAC,A	-	BssH II	G`CGCG,C	4	Mse I	T`TA,A	16	Msl I	CAYNN NNRTG	4
BssS I	C`TCGT,G	6	Bst1107 I	GTA TAC	1	Msp I	C`CG,G	65	MspA1 I	CMG CKG	22
BstB I	TT`CG,AA	1	BstE II	G`GTNAC,C	4	Mun I	C`AATT,G	1	Nae I	GCC GGC	7
BstN I	CC`W,GG	52	BstU I	CG CG	50	Nar I	GG`CG,CC	7	Nci I	CC`S,GG	33
BstX I	CCAN,NNNN`NTGG	5	BstY I	R`GATC,Y	18	Nco I	C`CATG,G	5	Nde I	CA`TA,TG	2
Bsu36 I	CC`TNA,GG	5	Cac8 I	GCN NGC	85	NgoM I	G`CCGG,C	7	Nhe I	G`CTAG,C	2
Cfr10 I	R`CCGG,Y	15	Cla I	AT`CG,AT	1	Nla III	,CATG`	37	Nla IV	GGN NCC	75
Csp6 I	G`TA,C	19	Dde I	C`TNA,G	34	Not I	GC`GGCC,GC	1	Nru I	TCG CGA	-
Dpn I	GA TC	35	DpnII	`GATC,	35	Nsi I	A,TGCA`T	-	Nsp7524 I	R`CATG,Y	11
Dra I	TTT AAA	6	Dra III	CAC,NNN`GTG	4	NspB II	CMG CKG	22	NspH I	R,CATG`Y	11
Drd I	GACNN,NN`NNGTC	7	Dsa I	C`CRYG,G	13	PaeR7 I	C`TCGA,G	1	Pal I	GG CC	90
Eae I	Y`GGCC,R	25	Eag I	C`GGCC,G	9	PflM I	CCAN,NNN`NTGG	5	Ple I	GAGTC 9/10	5
Ear I	CTCTTC 7/10	10	Eco47 III	AGC GCT	2	Pme I	CTTT AAAC	3	Pml I	CAC GTG	1
Eco57 I	CTGAAG 21/19	11	Eco72 I	CAC GTG	1	PpuM I	RG`GWC,CY	6	Psp1406 I	AA`CG,TT	3
EcoN I	CCTNN`N,NNAGG	5	Eco109 I	RG`GNC,CY	17	PspA I	C`CCGG,G	5	Pst I	C,TGCA`G	9
EcoR I	G`AATT,C	2	EcoR II	`CCWGG,	52	Pvu I	CG,AT`CG	1	Pvu II	CAG CTG	9
EcoR V	GAT ATC	1	Ehe I	GGC GCC	7	Rsa I	GT AC	19	Rsr II	CG`GWC,CG	3
Esp I	GC`TNA,GC	2	Fnu4H I	GC`N,GC	143	Sac I	G,AGCT`C	2	Sac II	CC,GC`GG	3
Fok I	GGATG 14/18	35	Fse I	GG,CCGG`CC	-	Sal I	G`TCGA,C	-	Sap I	GCTCTTC 8/11	7
Fsp I	TGC GCA	6	Gdi II	`YGGC,CG	29	Sau3A I	`GATC,	35	Sau96 I	G`GNC,C	66
Gsu I	CTGGAG 21/19	14	Hae I	WGG CCW	21	Sca I	AGT ACT	1	ScrF I	CC`N,GG	85
Hae II	R,GCGC`Y	16	Hae III	GG CC	90	Sec I	C`CNNG,G	75	SfaN I	GCATC 9/13	44
Hga I	GACGC 9/14	28	HgiA I	G,WGCW`C	16	Sfc I	C`TRYA,G	13	Sfi I	GGCCN,NNN`NGGCC	-
HgiE II	ACCNNNNNNGGT -1/133		Hha I	G,CG`C	77	Sma I	CCC GGG	5	SnaB I	TAC GTA	-
HinC II	GTY RAC	1	Hind II	GTY RAC	1	Spe I	A`CTAG,T	-	Sph I	G,CATG`C	4
Hind III	A`AGCT,T	-	Hinf I	G`ANT,C	26	Spl I	C`GTAC,G	1	Srf I	GCCC GGGC	-
HinI I	GR`CG,YC	14	HinP I	G`CG,C	77	Ssp I	AAT ATT	-	Stu I	AGG CCT	7
Hpa I	GTT AAC	-	Hpa II	C`CG,G	65	Sty I	C`CWWG,G	8	Taq I	T`CG,A	30
Hph I	GGTGA 12/11	31	Kas I	G`GCGC,C	7	Tfi I	G`AWT,C	14	Tsp45 I	`GTSAC,	24
Kpn I	G,GTAC`C	1	Mae I	C`TA,G	17	Tth111 I	GACN`N,NGTC	6	Tth111 II	CAARCA 16/14	14
Mae II	A`CG,T	29	Mae III	`GTNAC,	31	Vsp I	AT`TA,AT	-	Xba I	T`CTAG,A	3
Mbo I	`GATC,	35	Mbo II	GAAGA 12/11	29	Xca I	GTA TAC	1	Xcm I	CCANNNN,N`NNNNTGG2	
Mlu I	A`CGCG,T	2	Mme I	TCCRAC 25/23	9	Xho I	C`TCGA,G	1	Xho II	R`GATC,Y	18
Mnl I	CCTC 10/10	119	Msc I	TGG CCA	5	Xma I	C`CCGG,G	5	Xma III	C`GGCC,G	9