

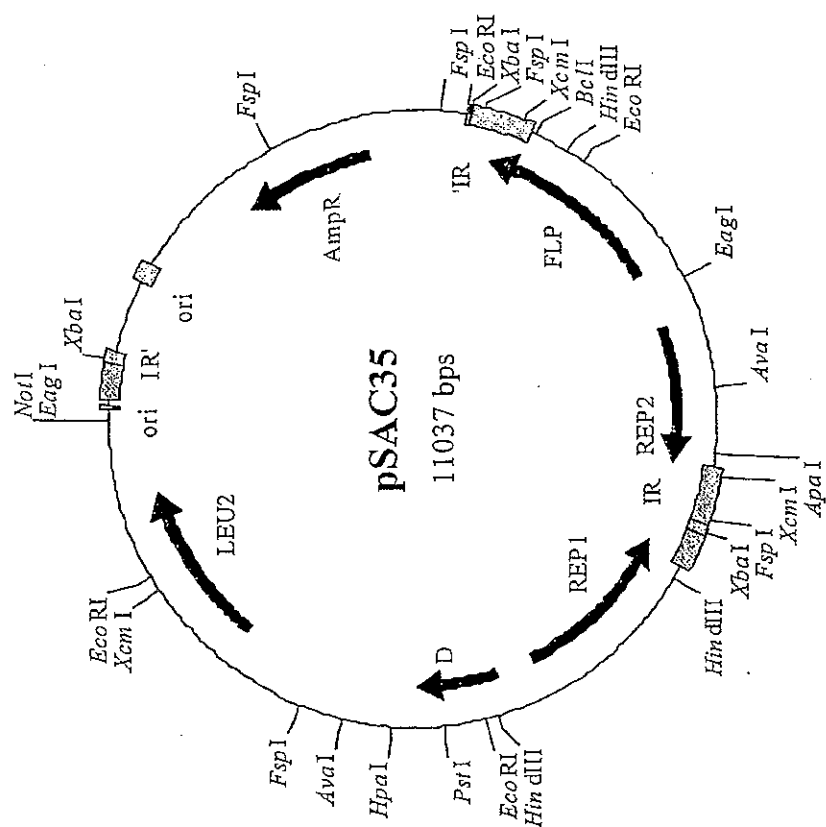


Figure 2

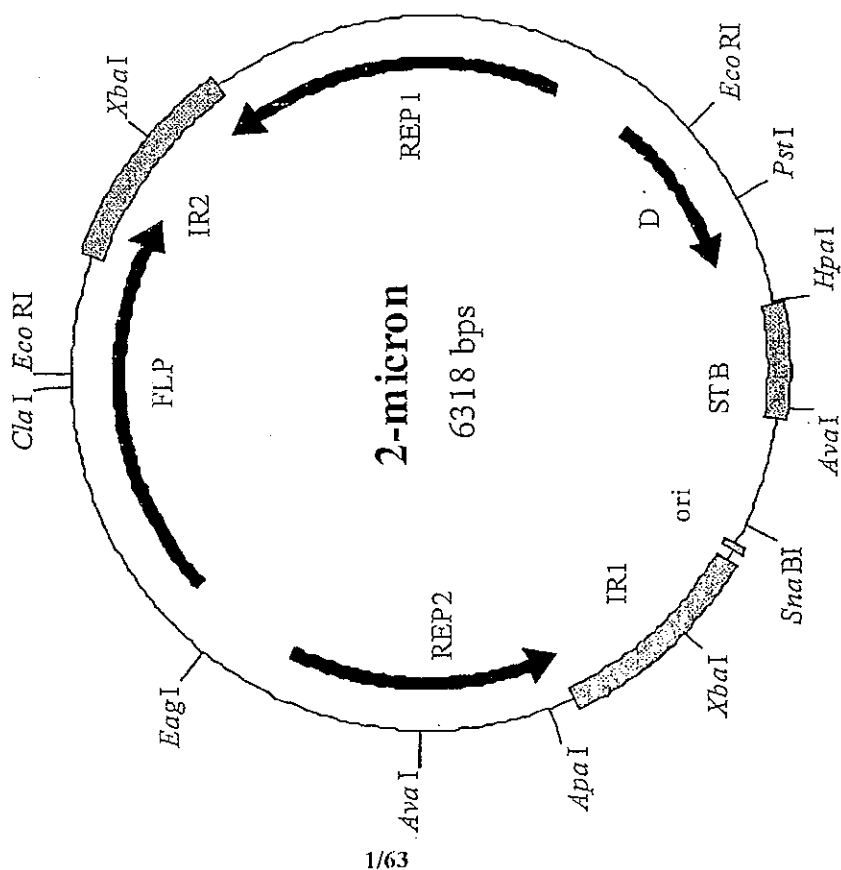
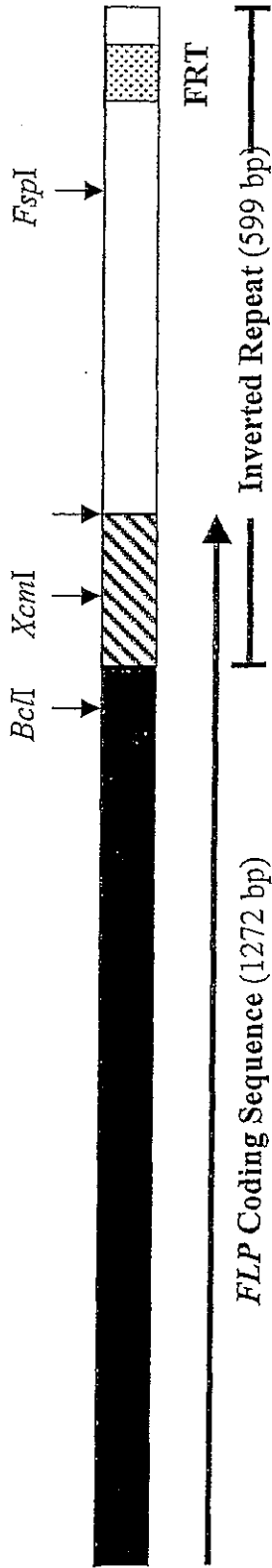


Figure 1

Figure 3

A) Restriction Endonuclease Sites used for DNA Insertions in *FLP* and the *FLP* Inverted



B) Flp Protein (423 amino acid residues)



C) Truncated FLP Protein Products



Figure 5

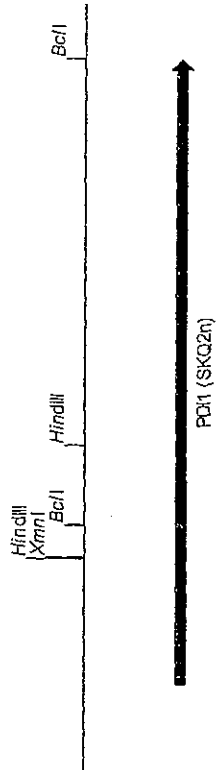


Figure 4

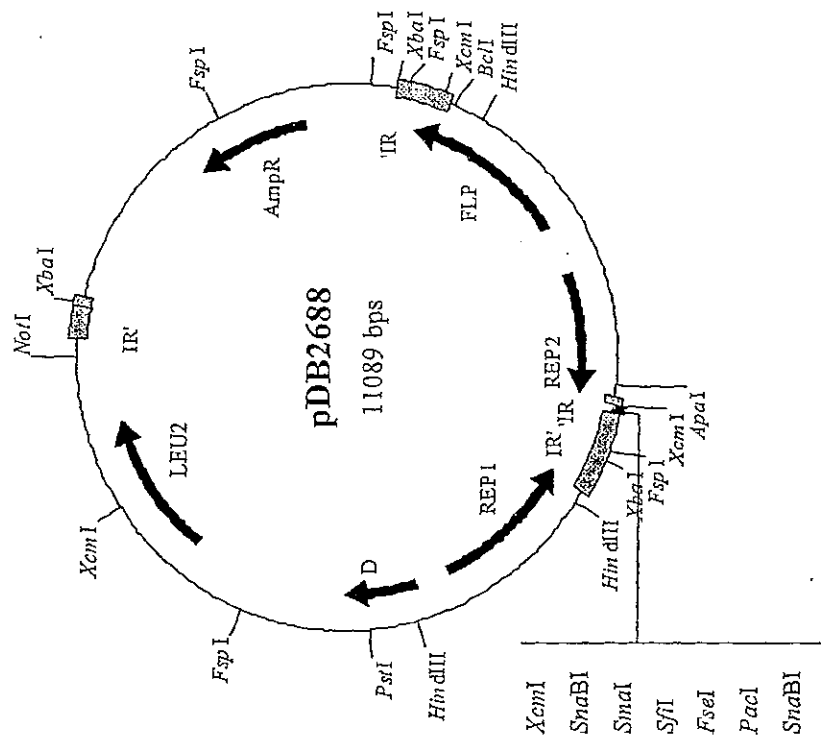


Figure 7

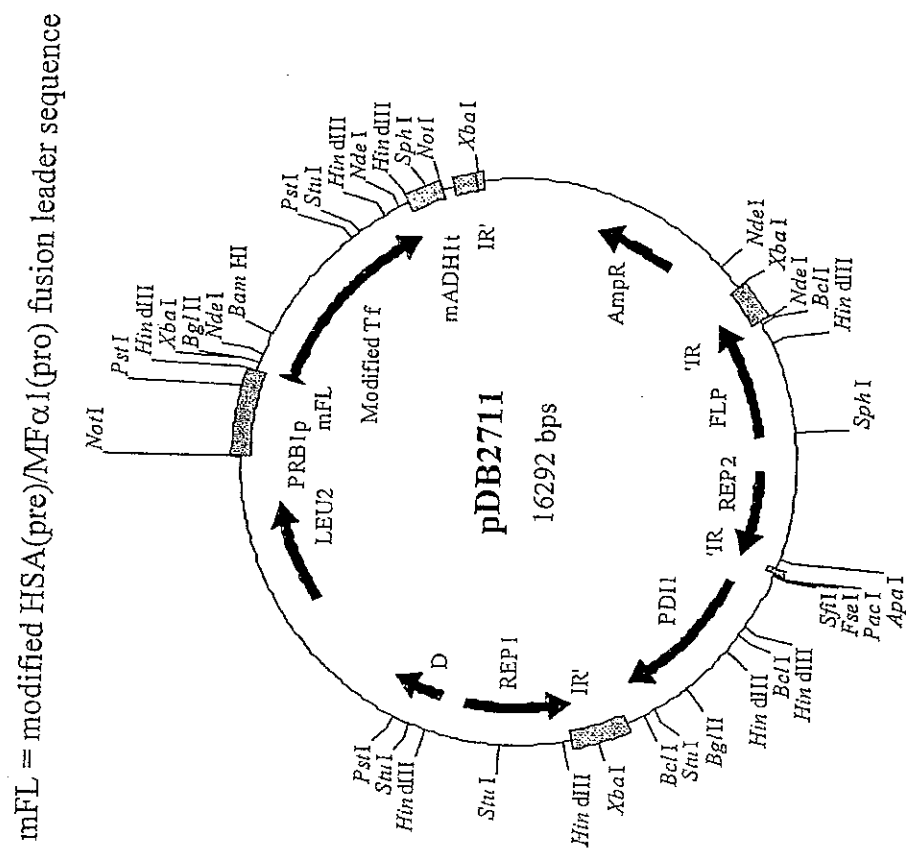


Figure 6

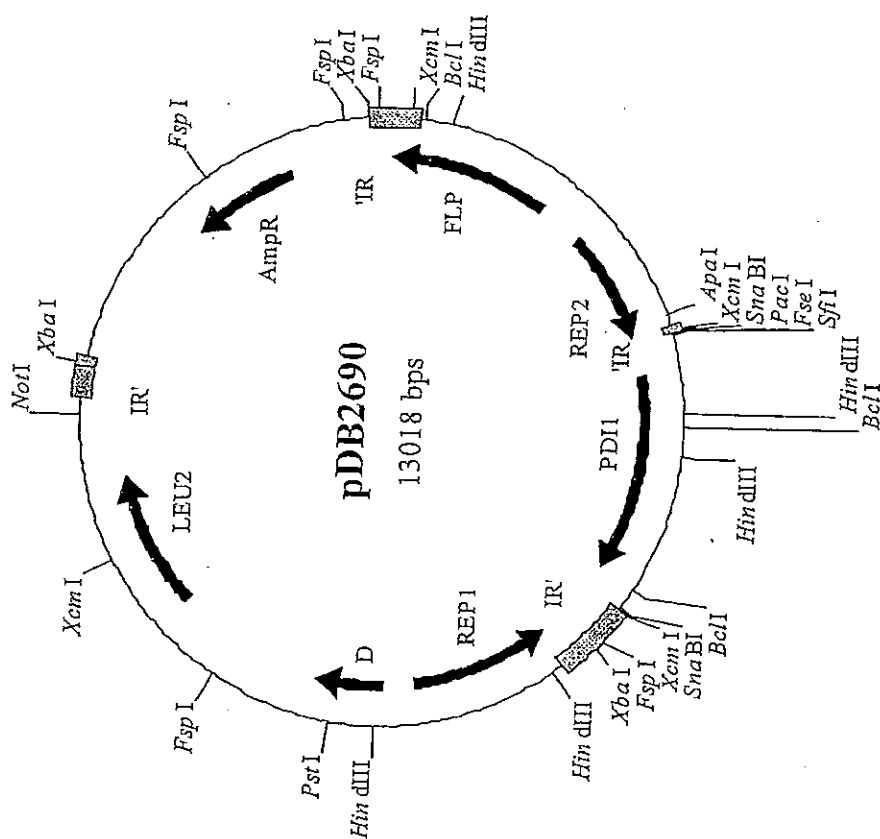


Figure 8

mFL = modified HSA(pre)/MF α 1(pro) fusion leader sequence

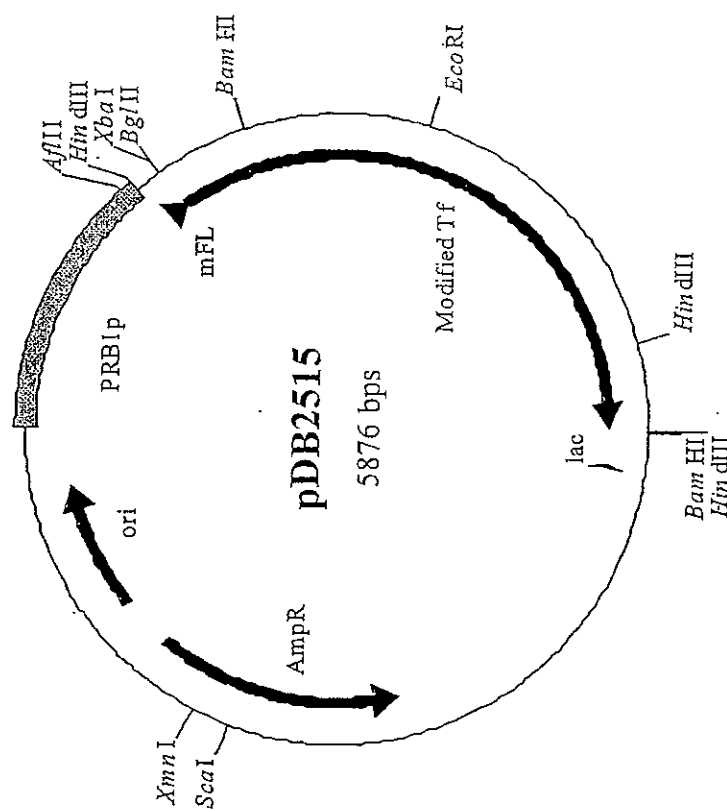


Figure 9

mHSA-pre = modified HSA-pre leader sequence

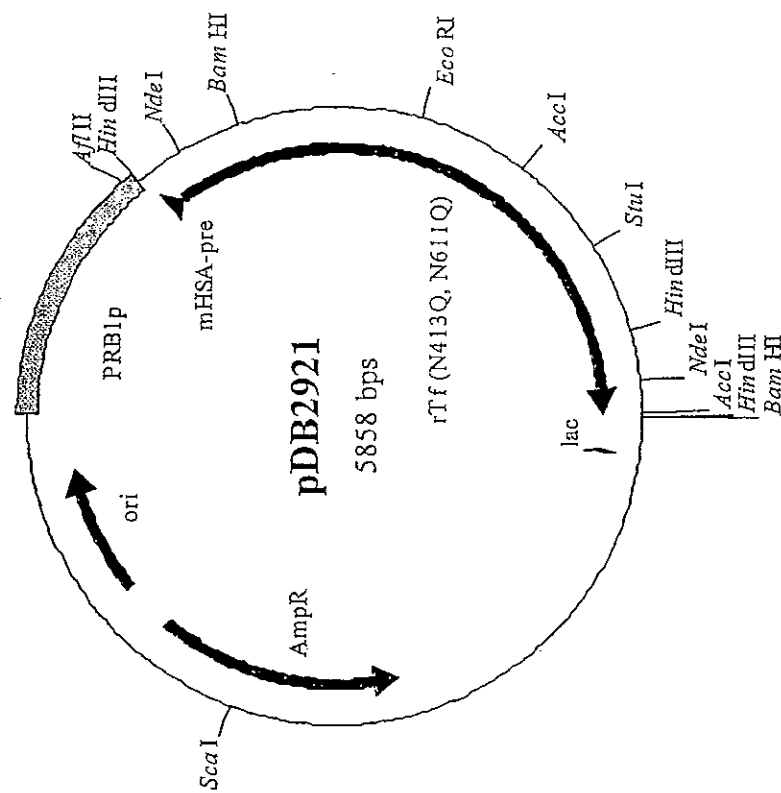


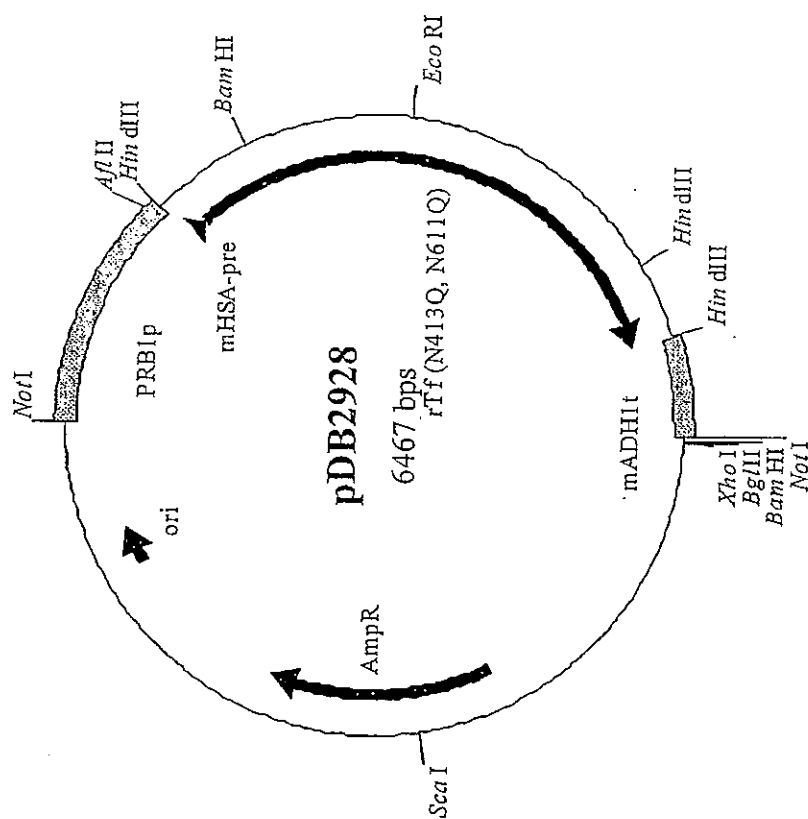
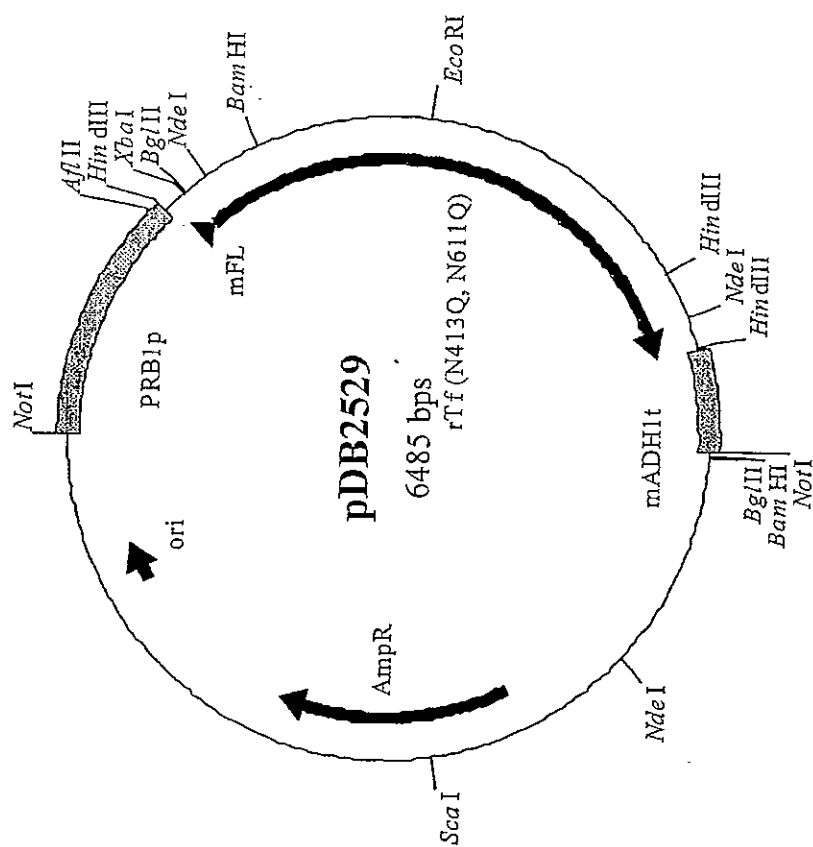
Figure 11**Figure 10**

Figure 13

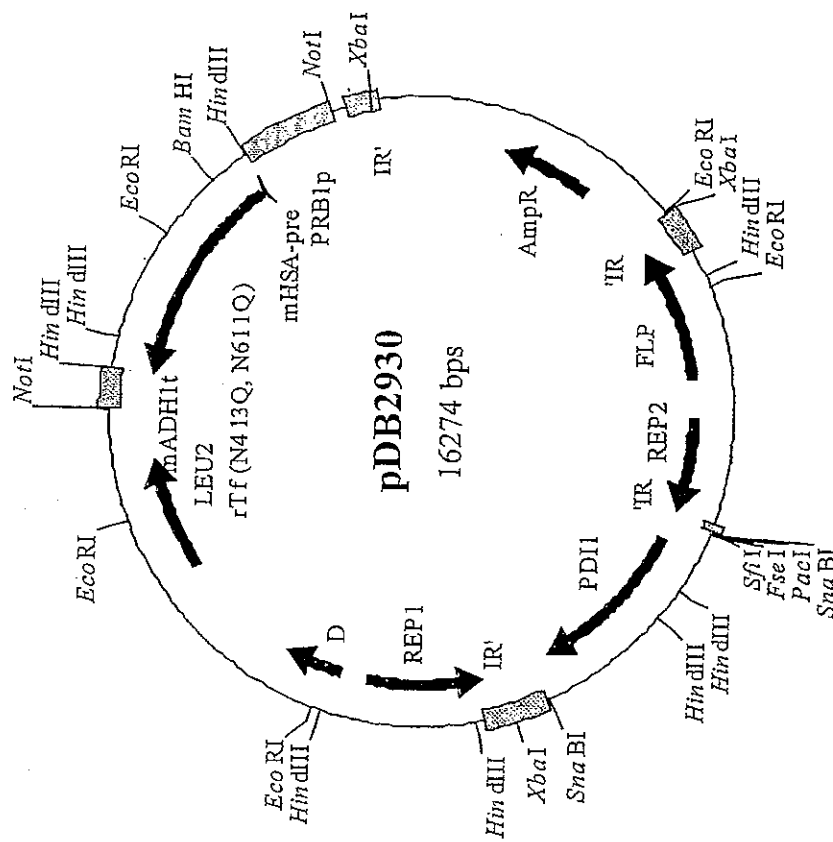


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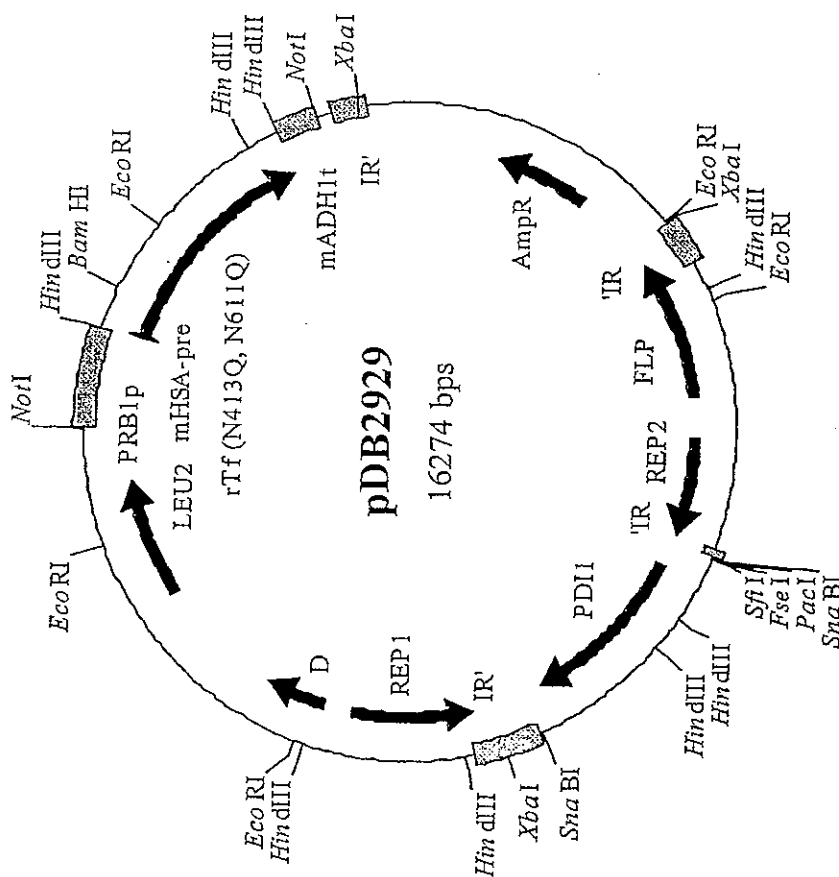


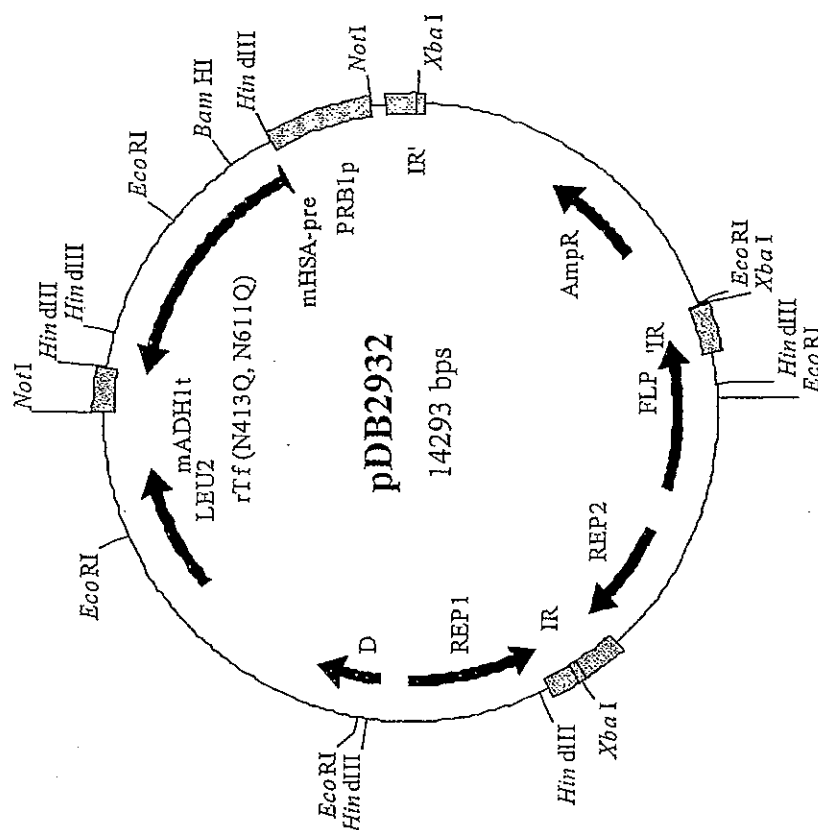
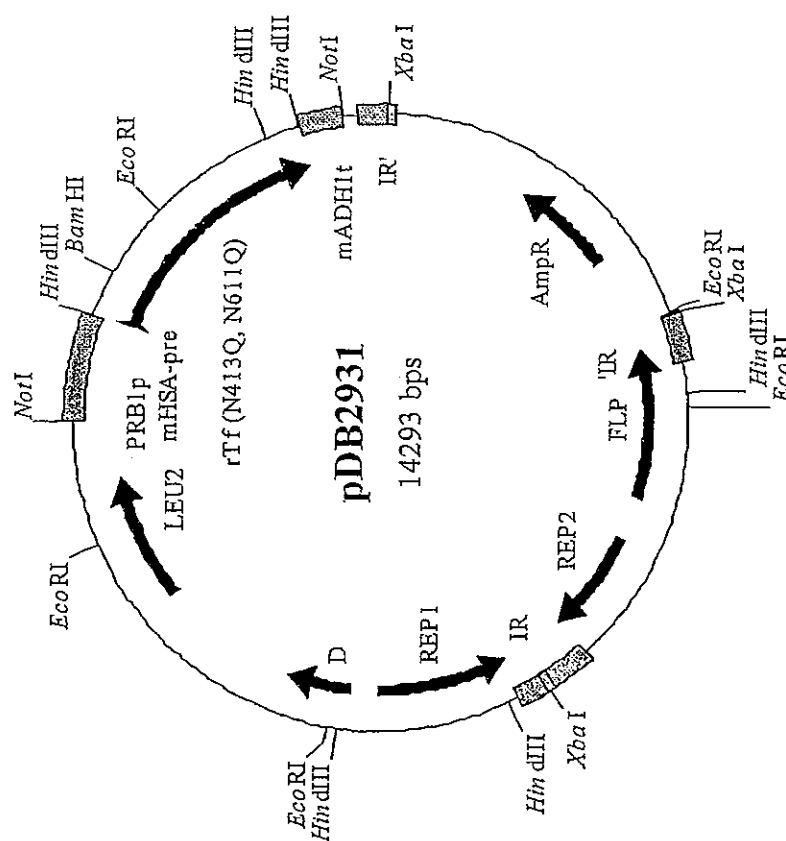
Figure 15**Figure 14**

Figure 16

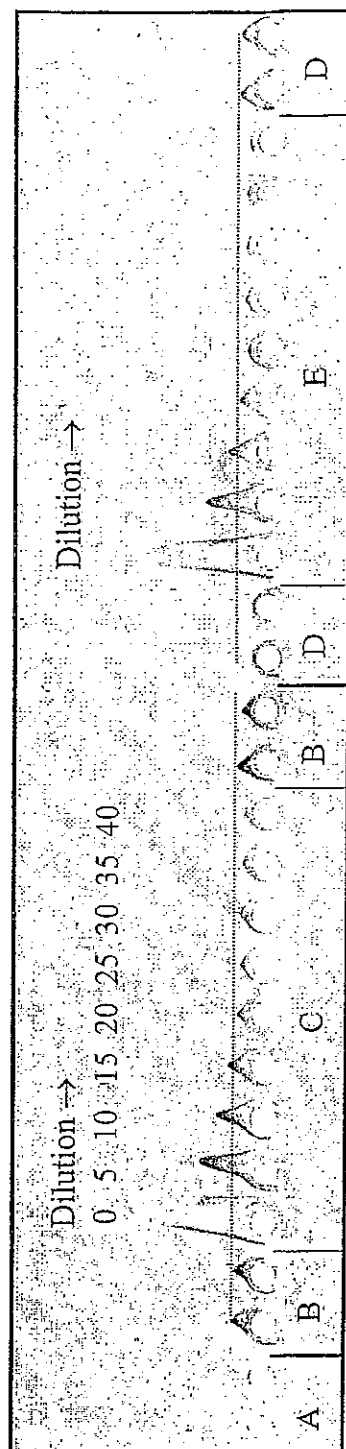


figure 17

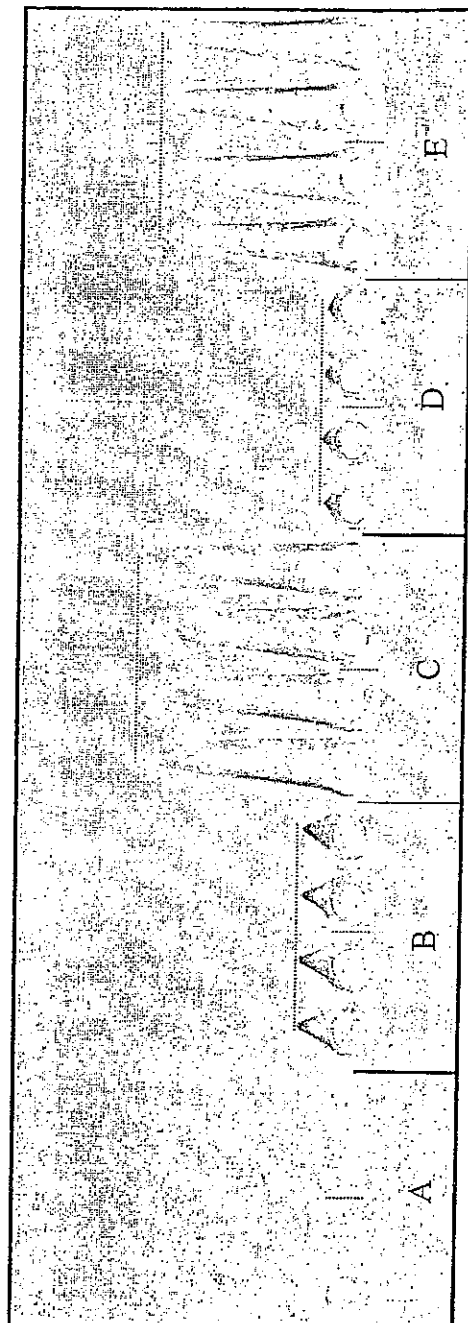
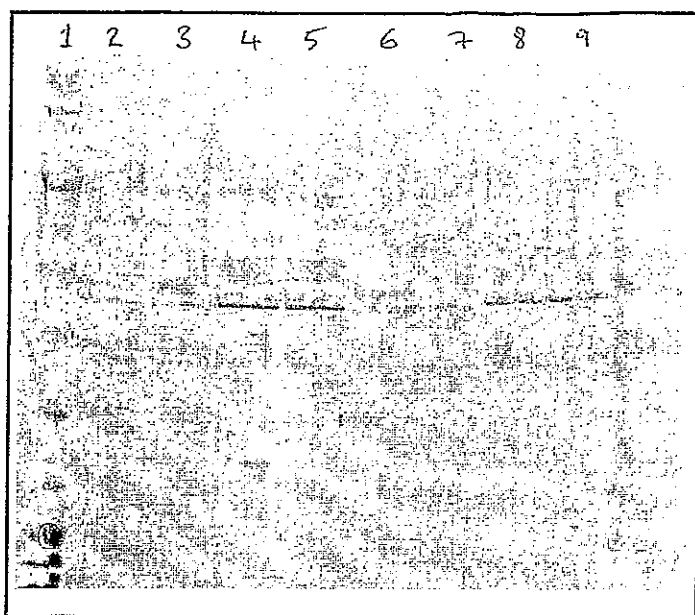
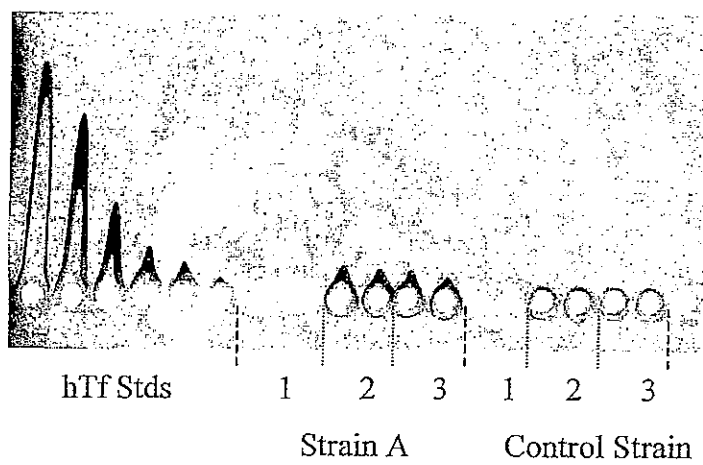


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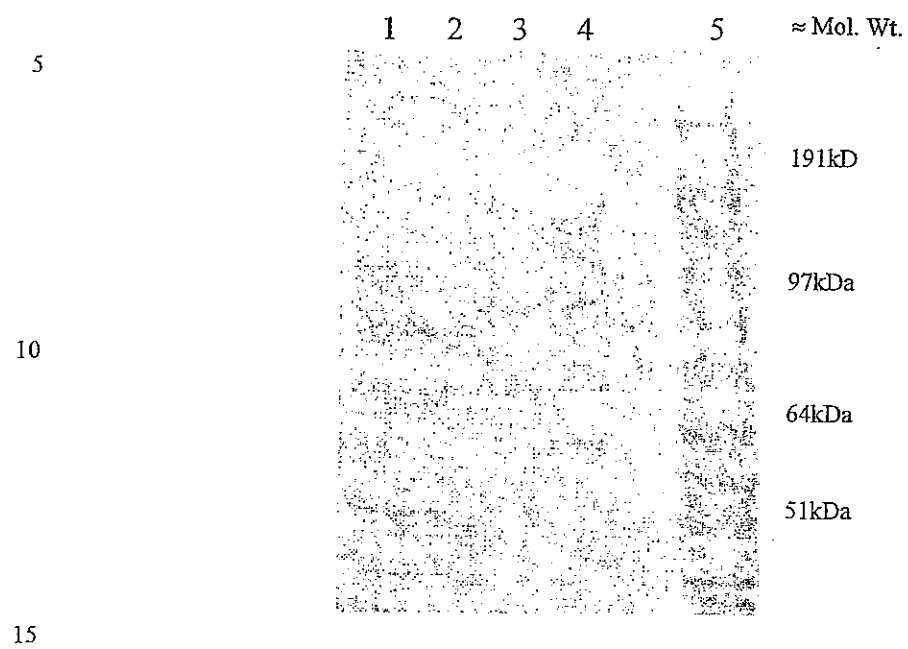
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Figure 19



5

Figure 21



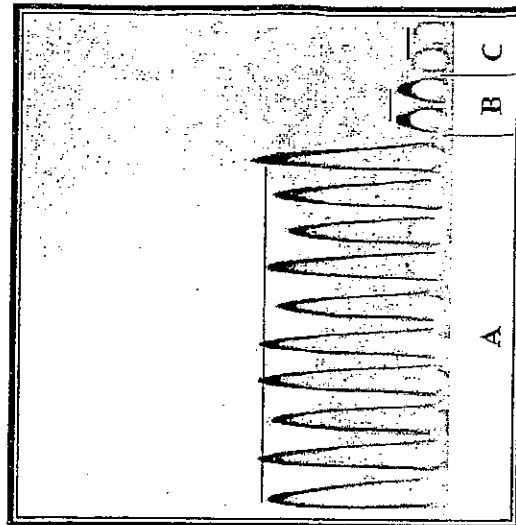


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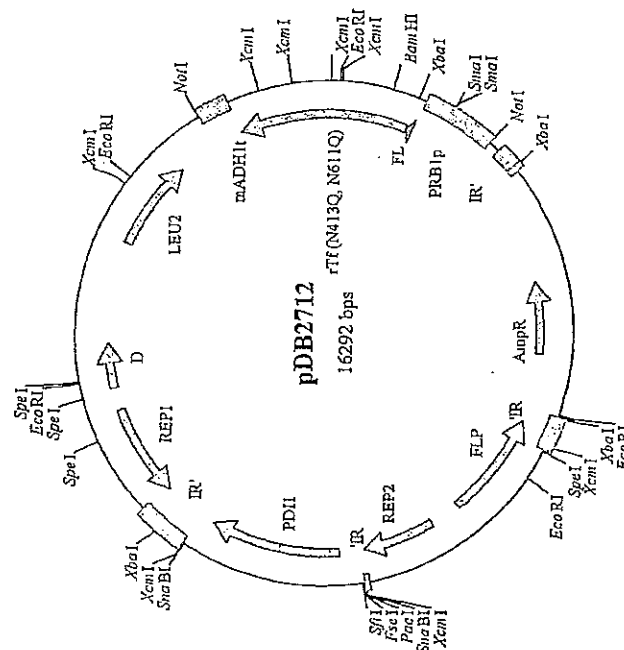


Figure 22

Figure 25

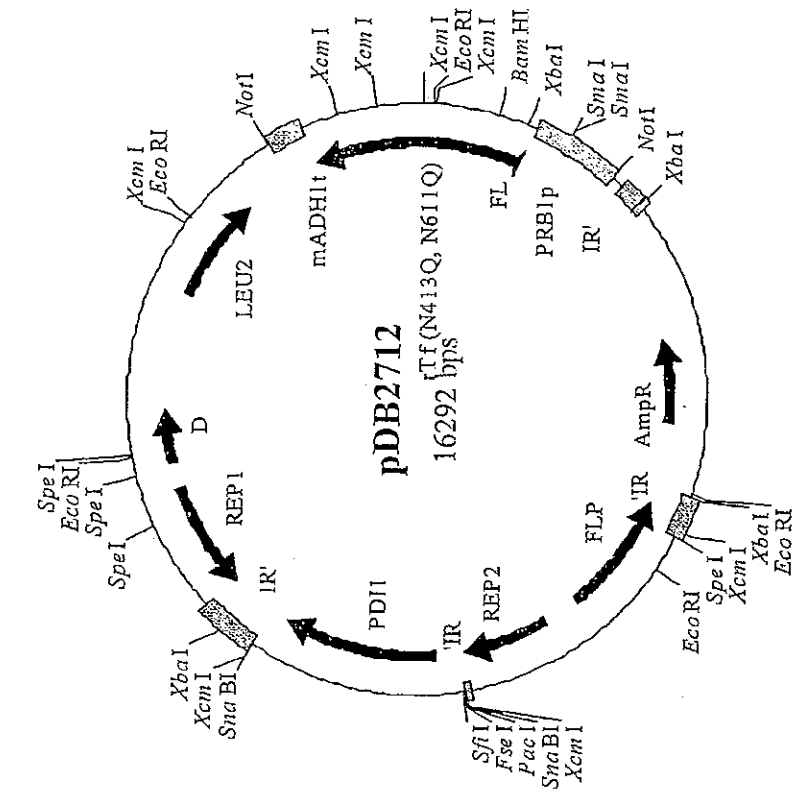


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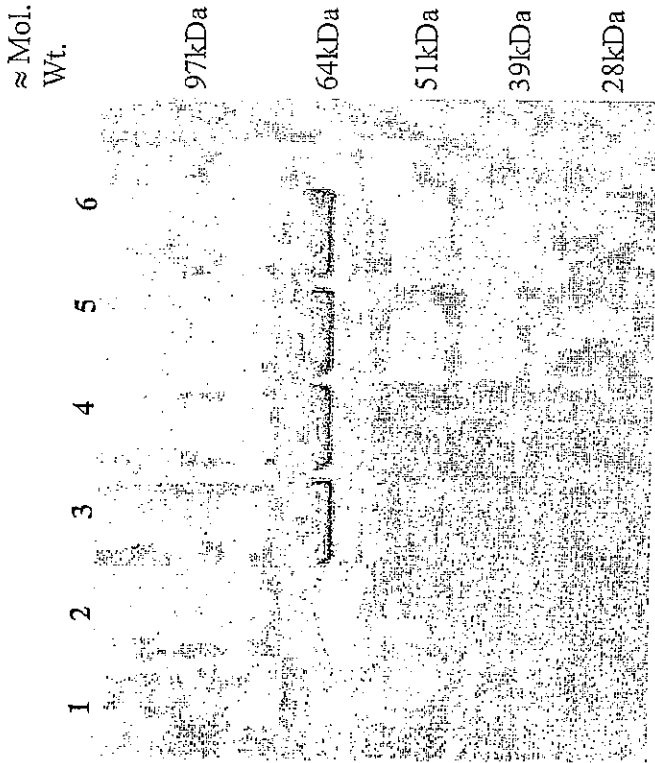
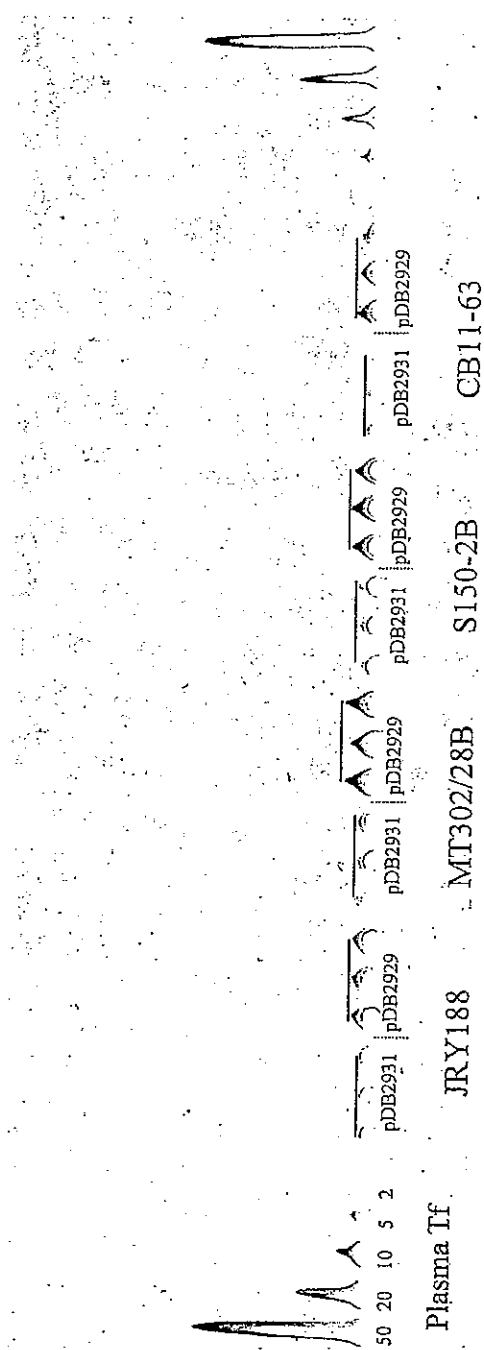


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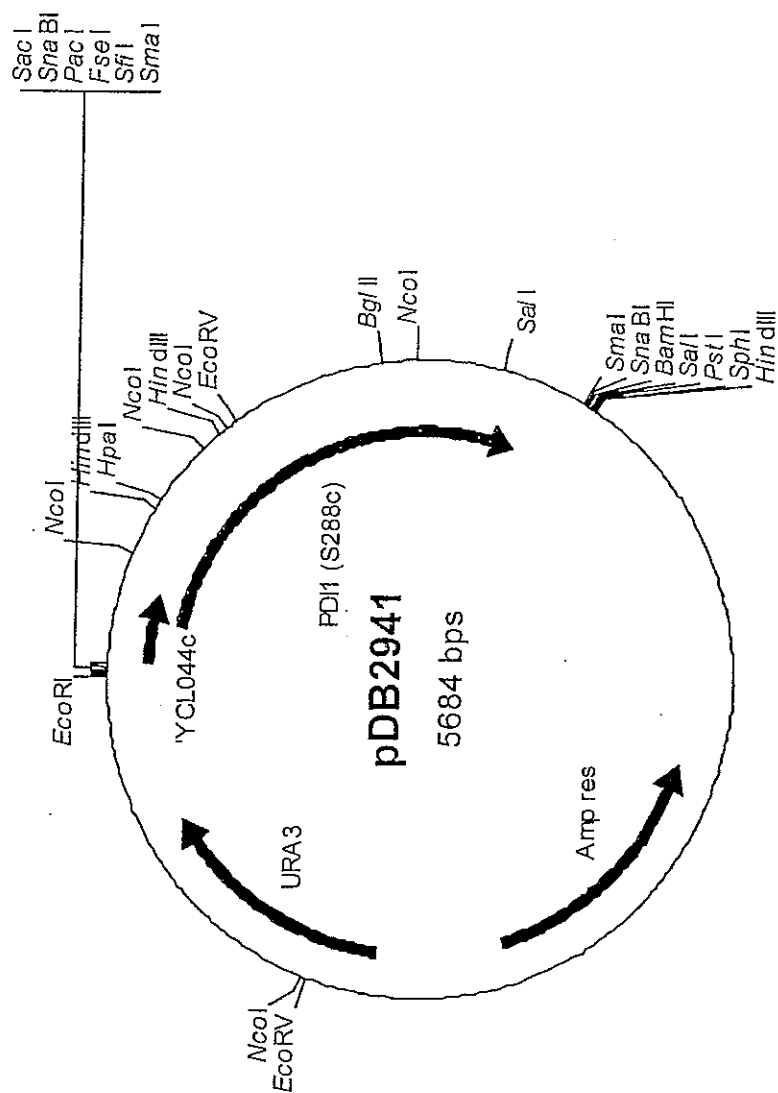


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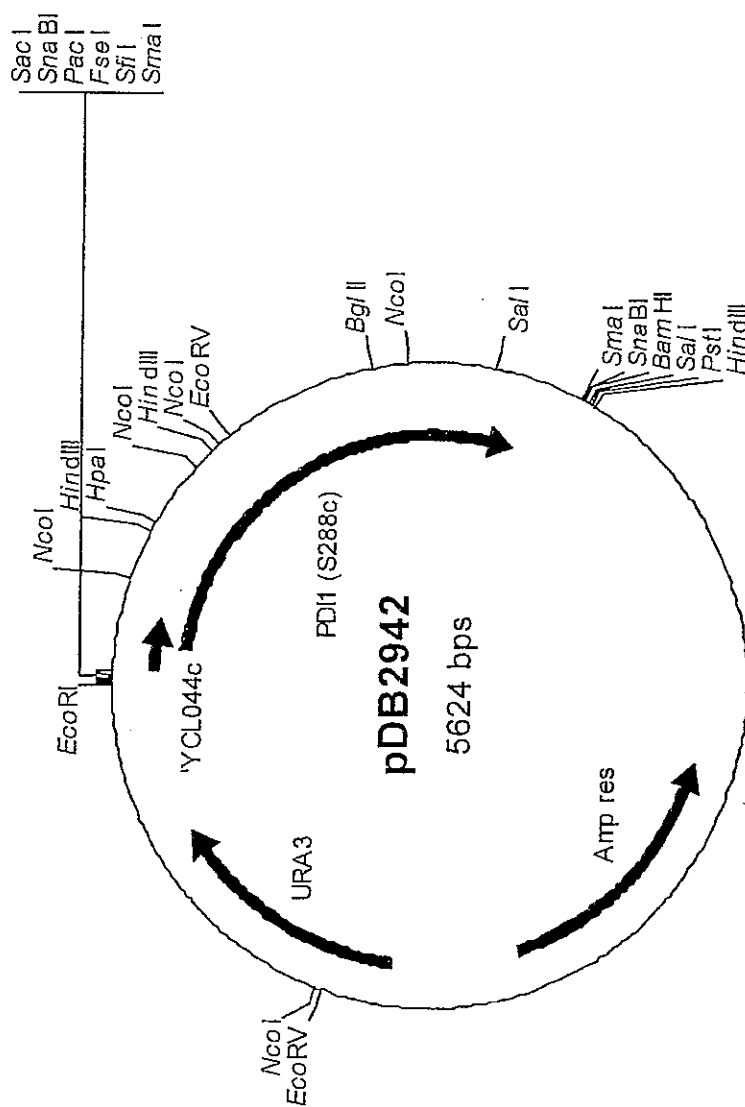


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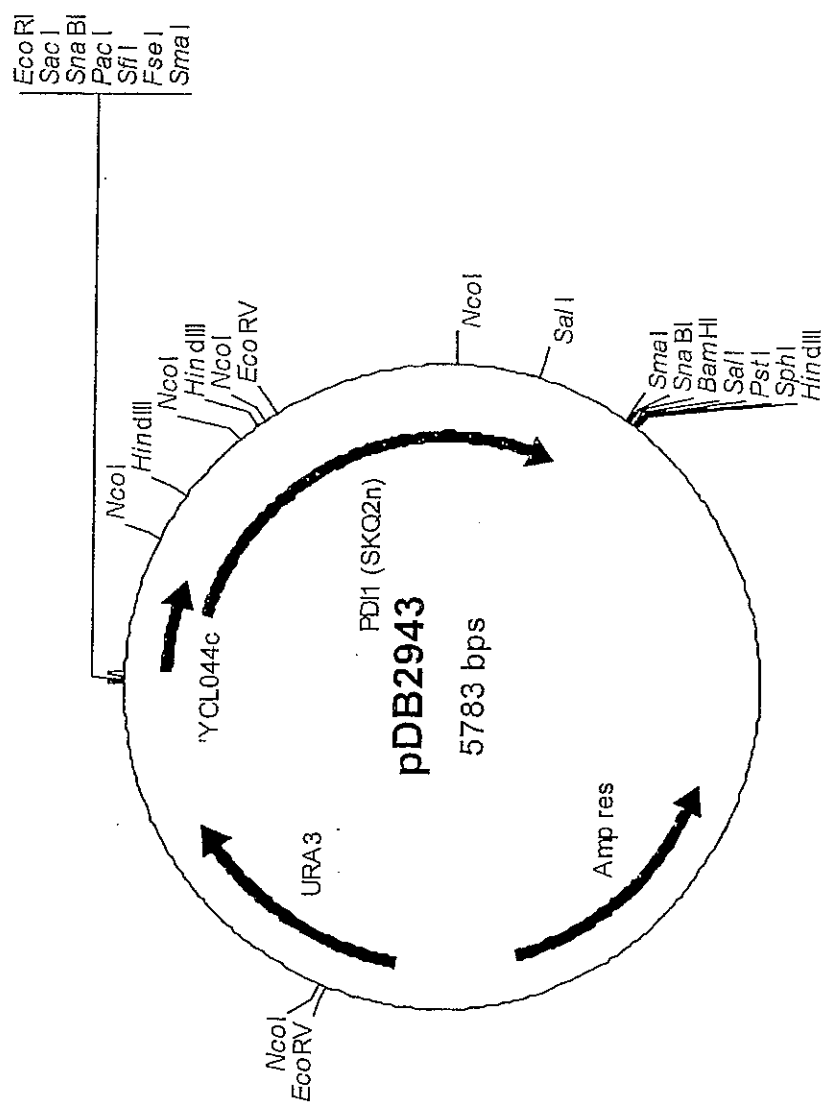


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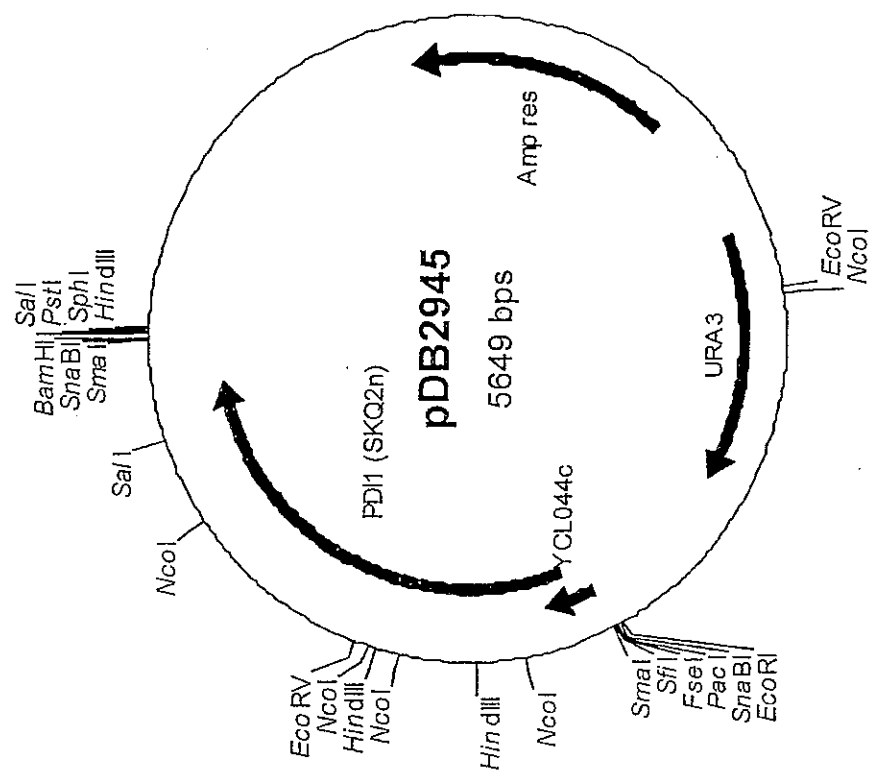
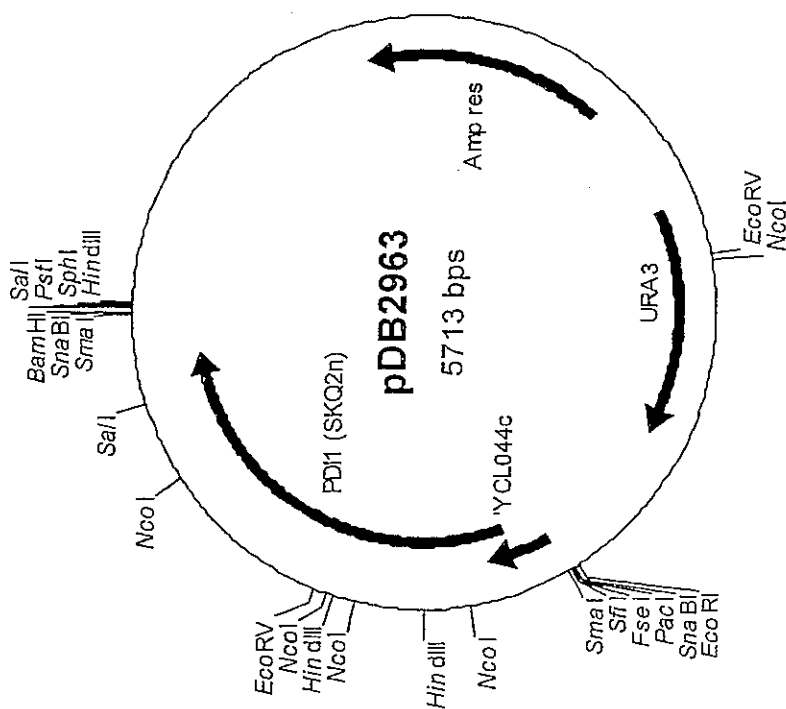
Figure 32**Figure 31**

Figure 34

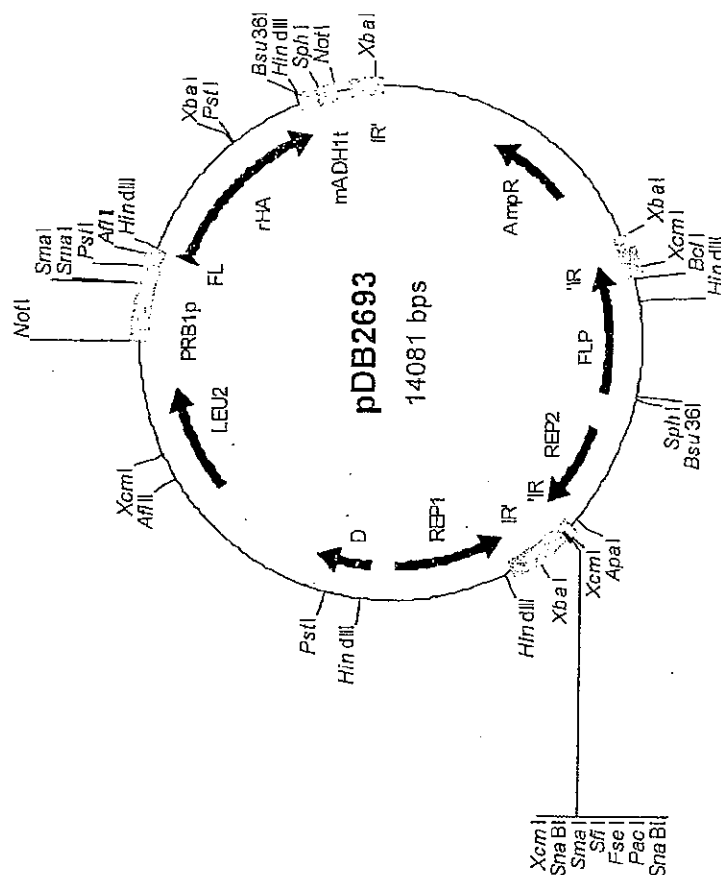
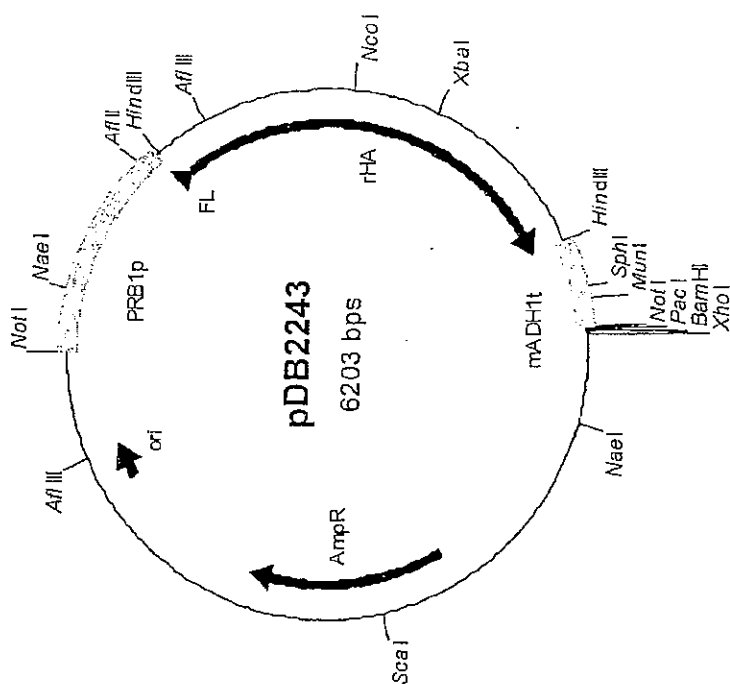


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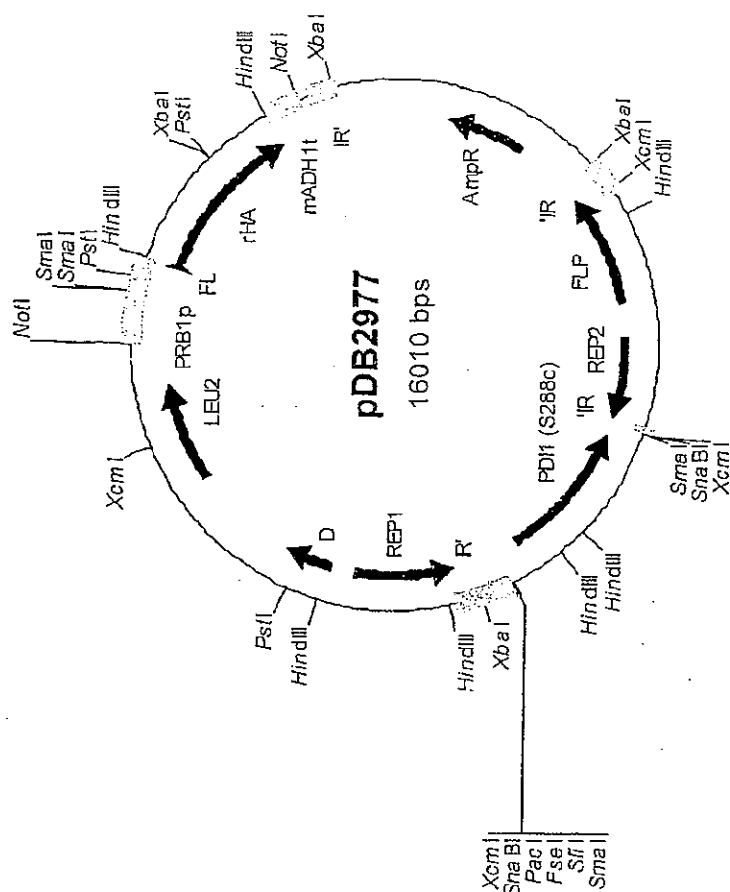


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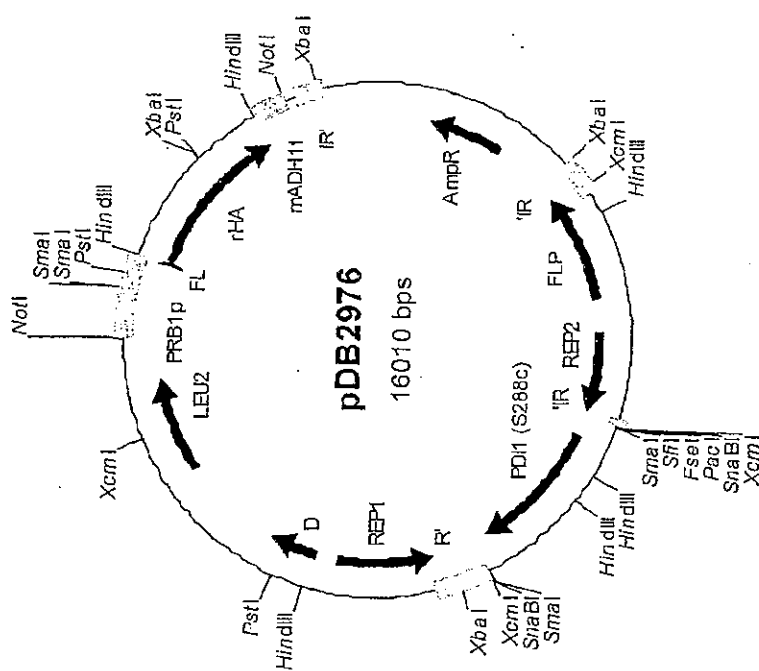


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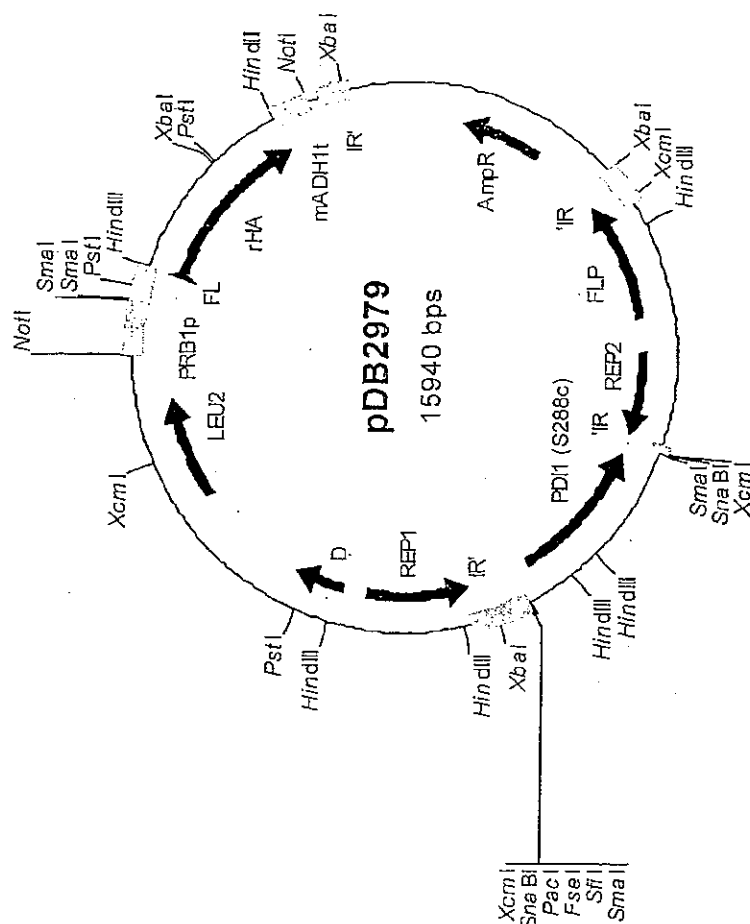
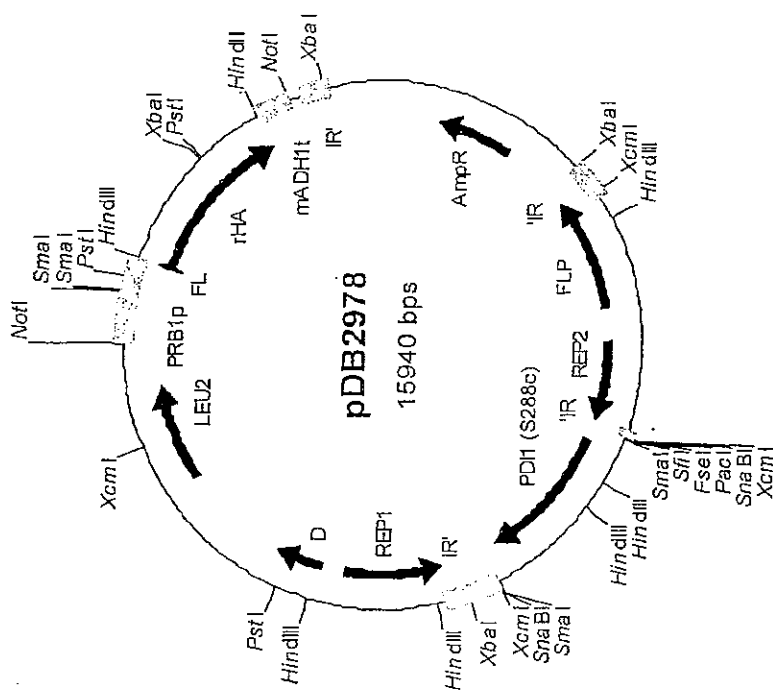
FIGURE 38**FIGURE 37**

FIGURE 40

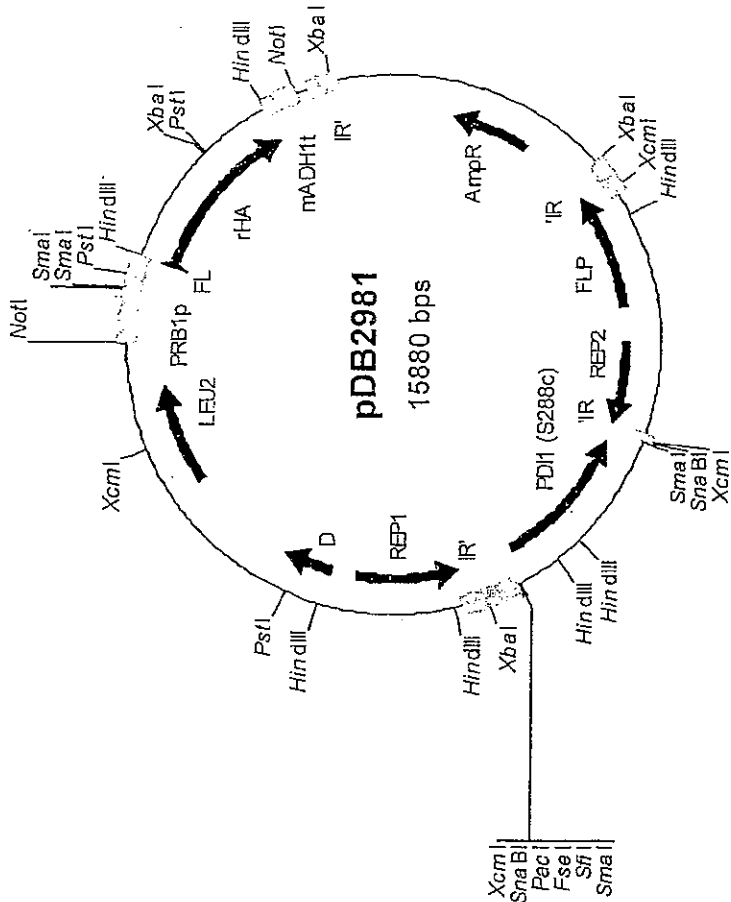


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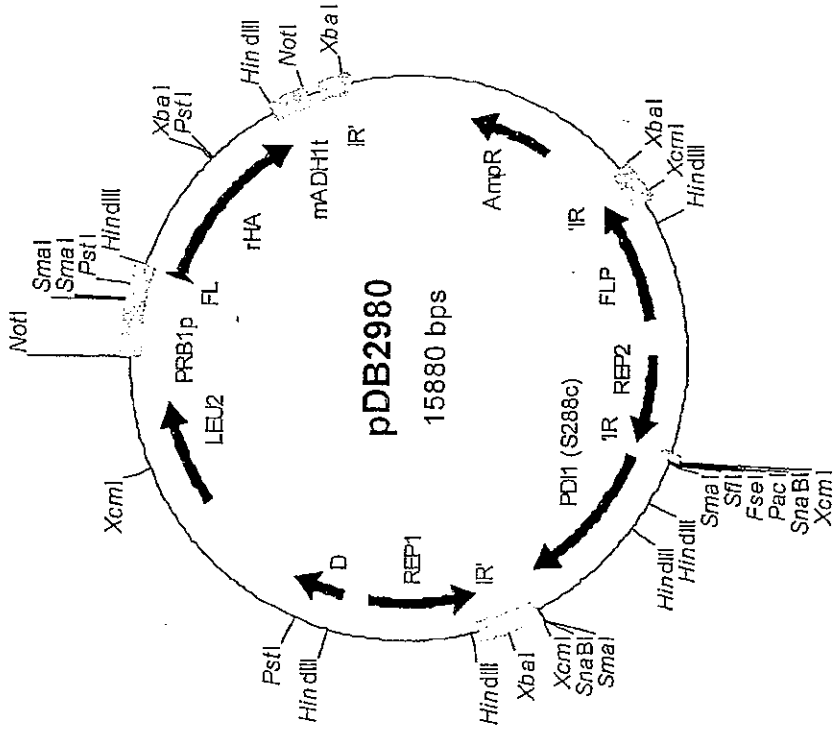


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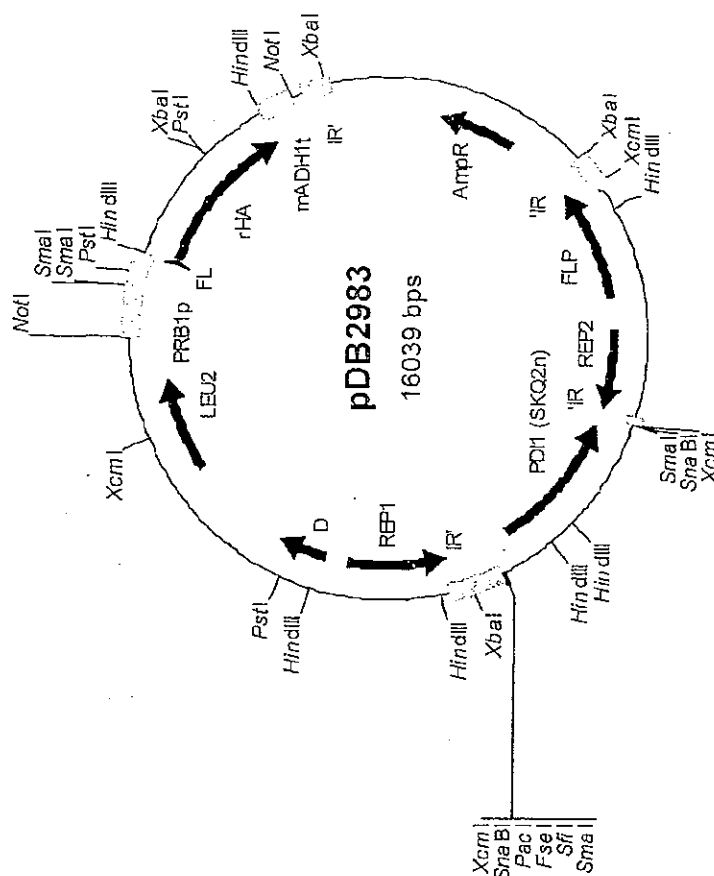
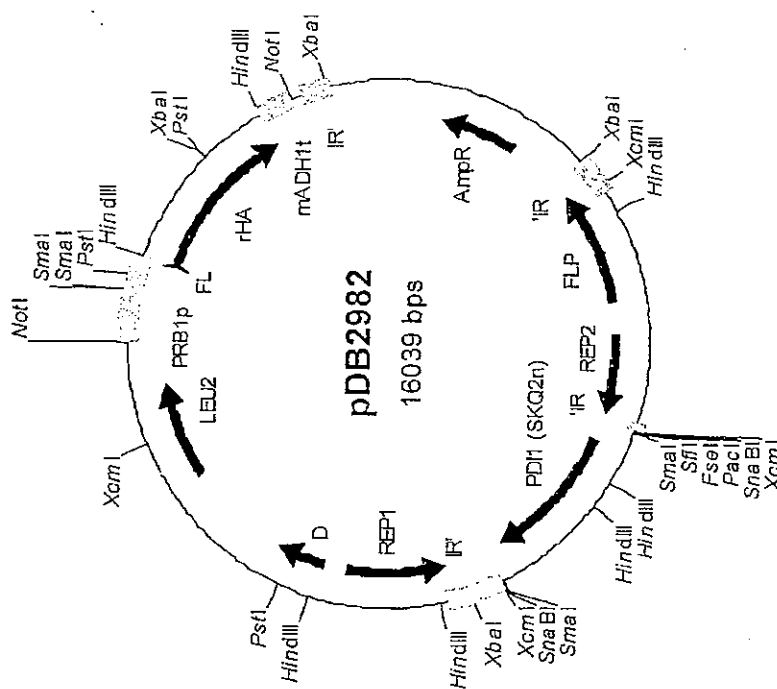


FIGURE 41



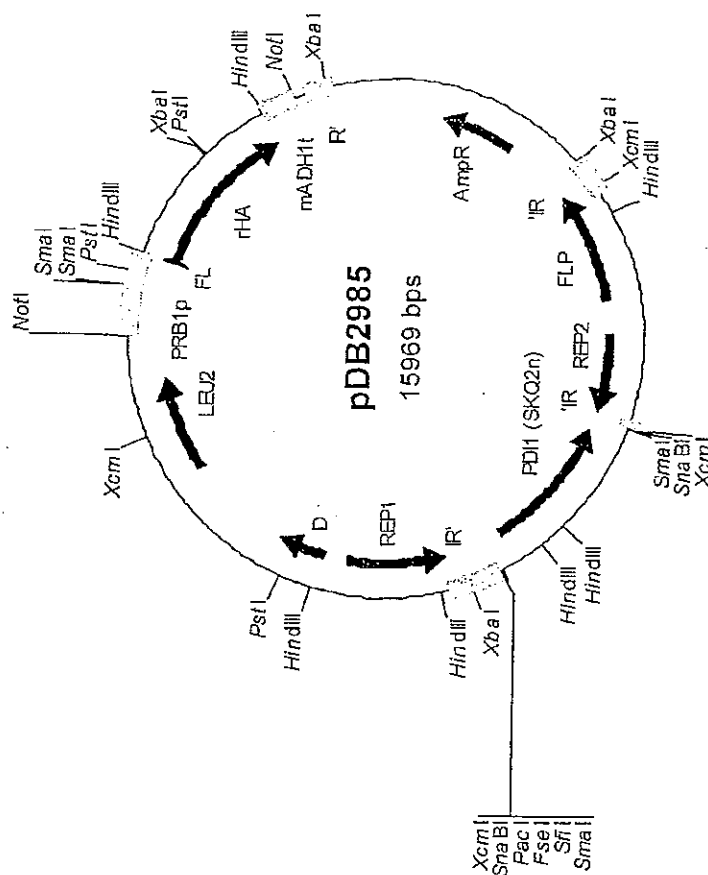


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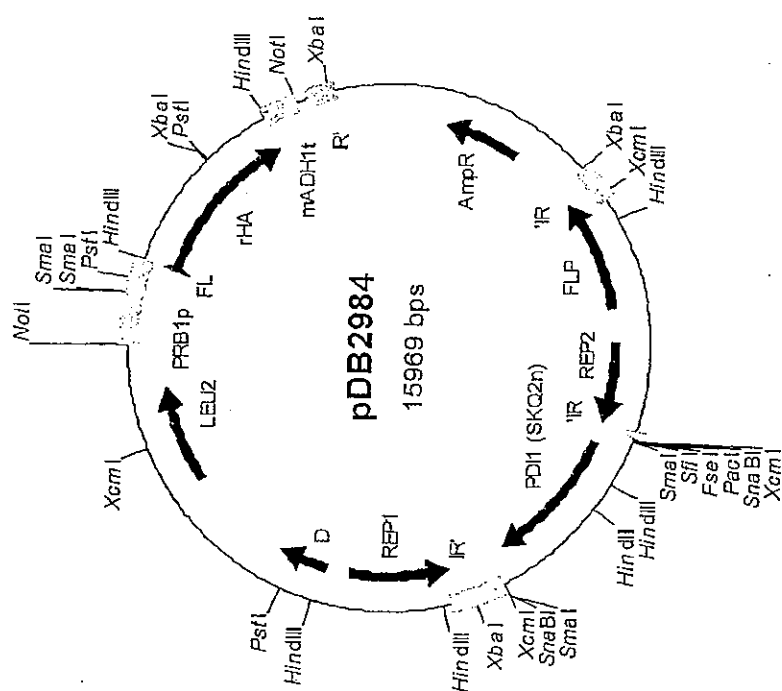


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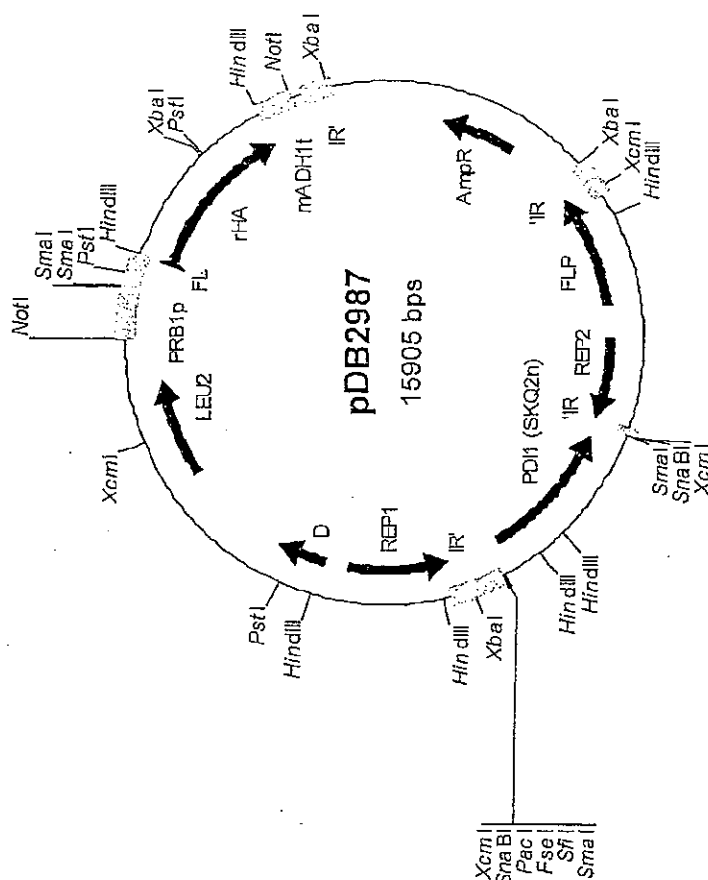


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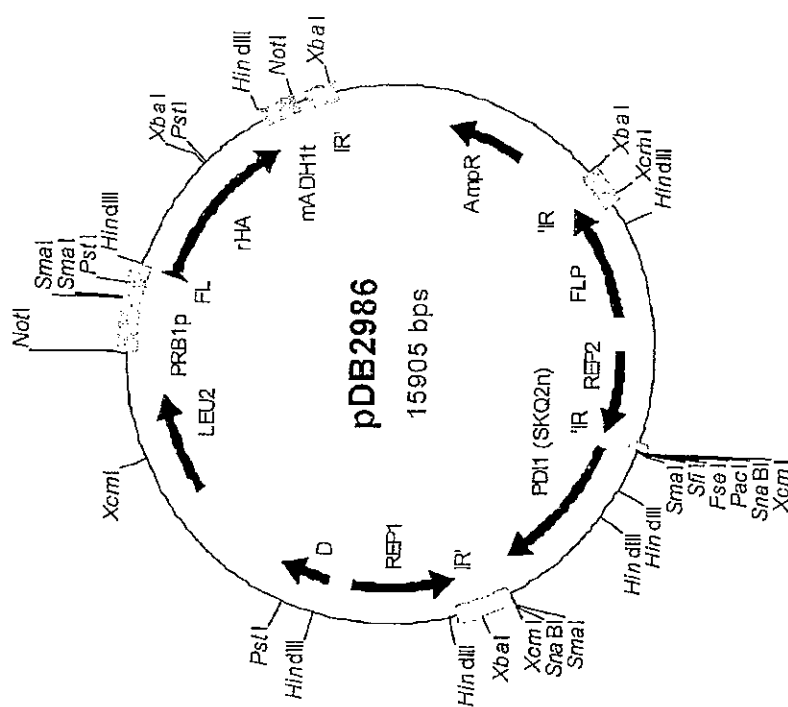


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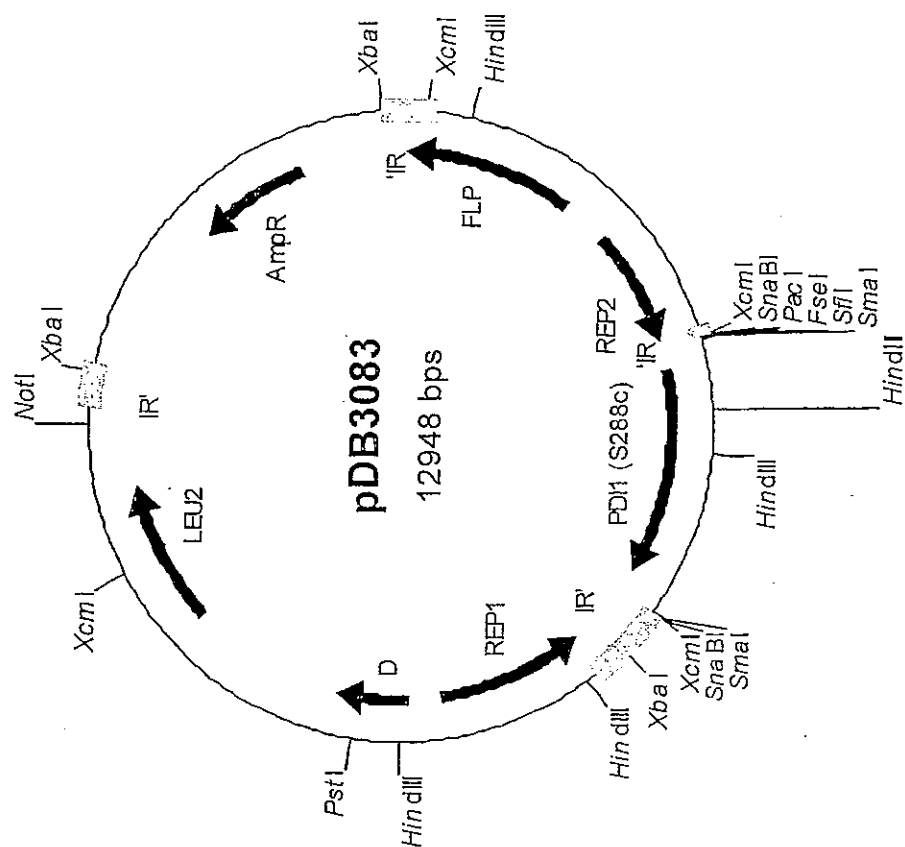
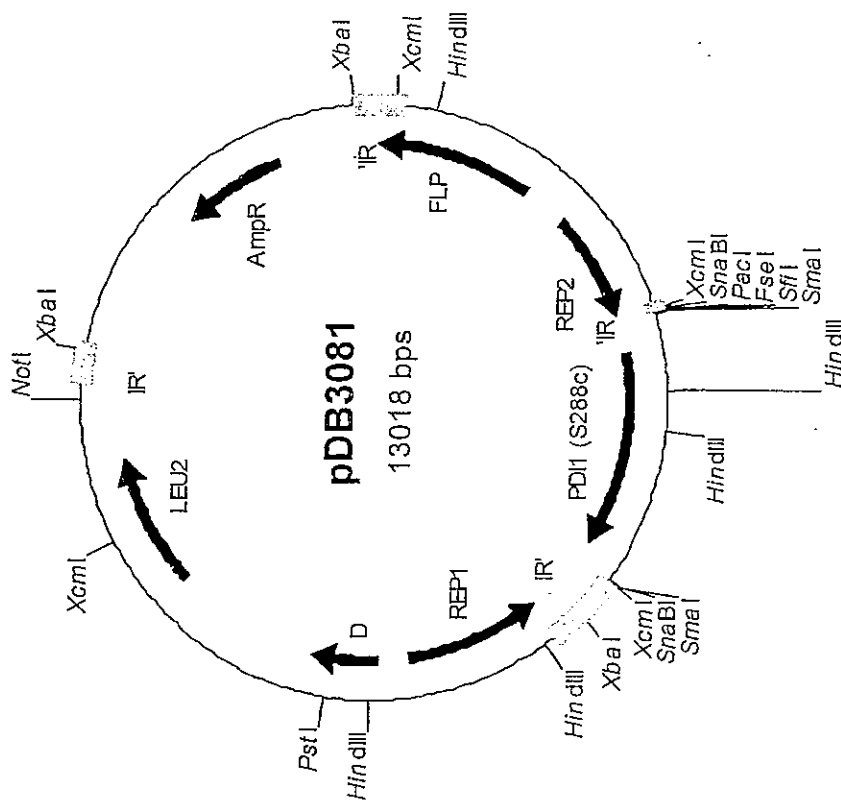
FIGURE 48**FIGURE 47**

FIGURE 50

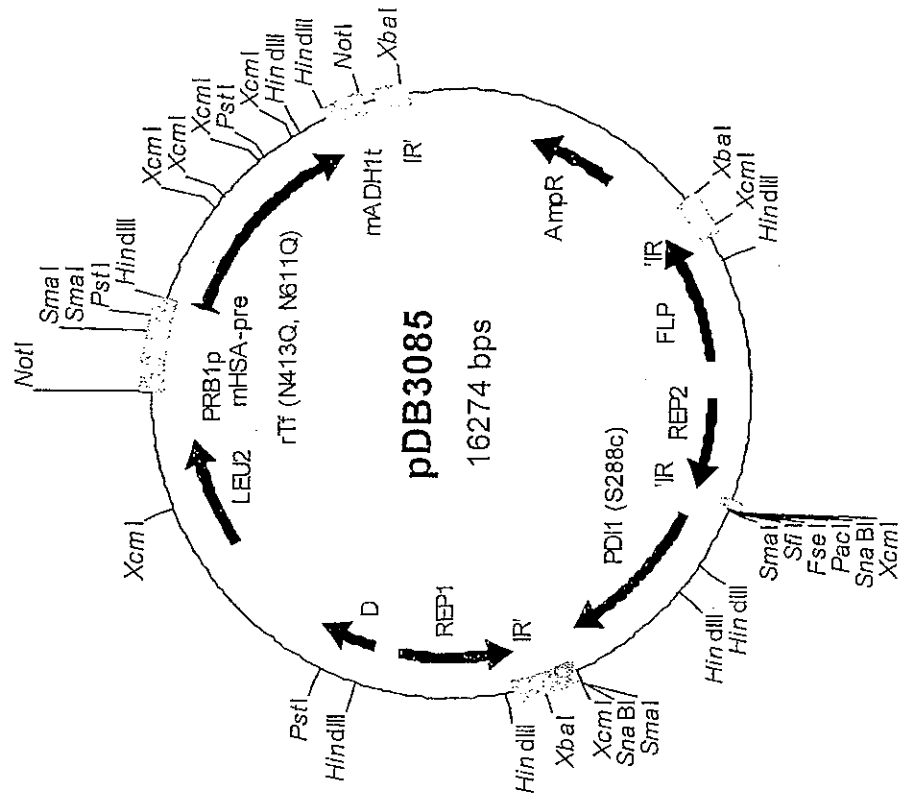


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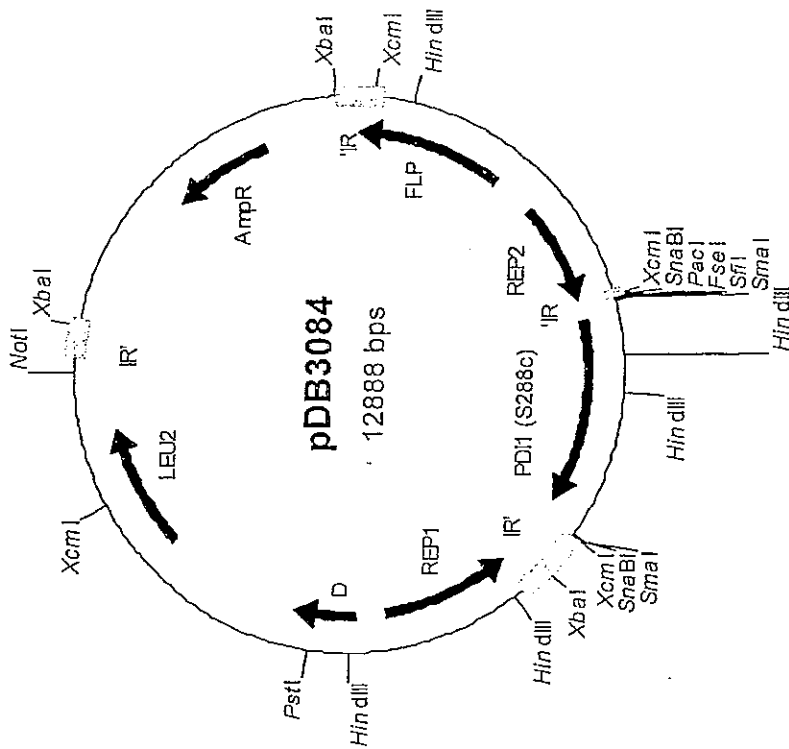


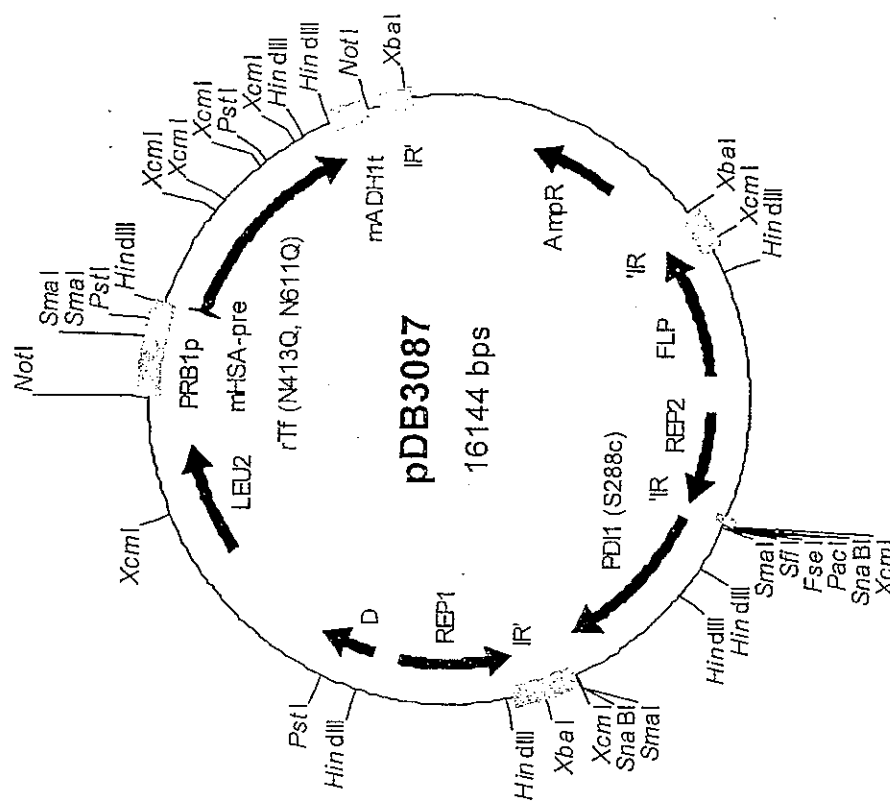
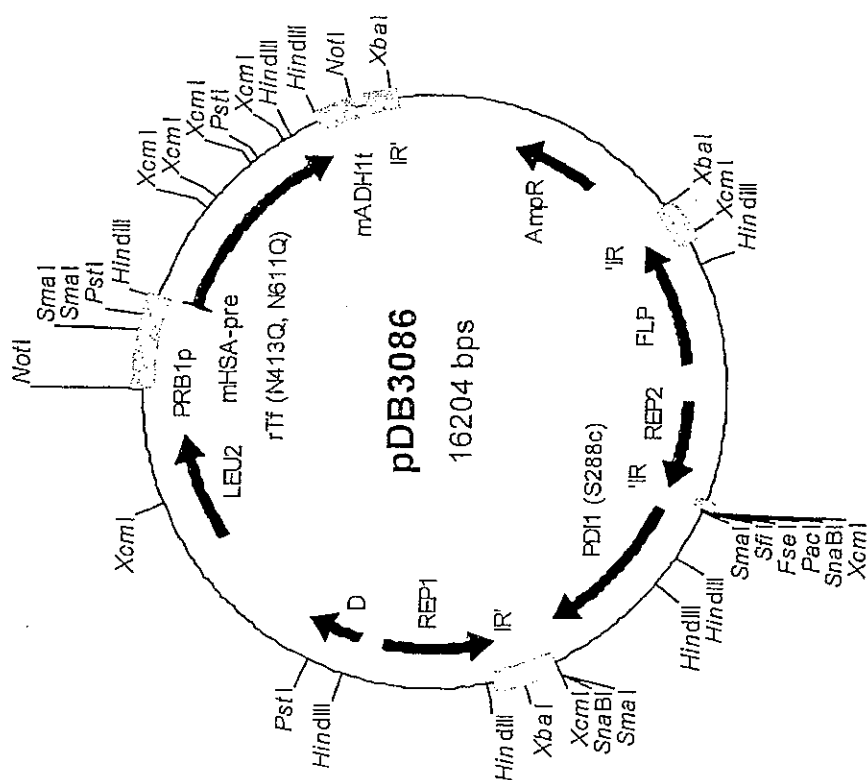
FIGURE 52**FIGURE 51**

FIGURE 53

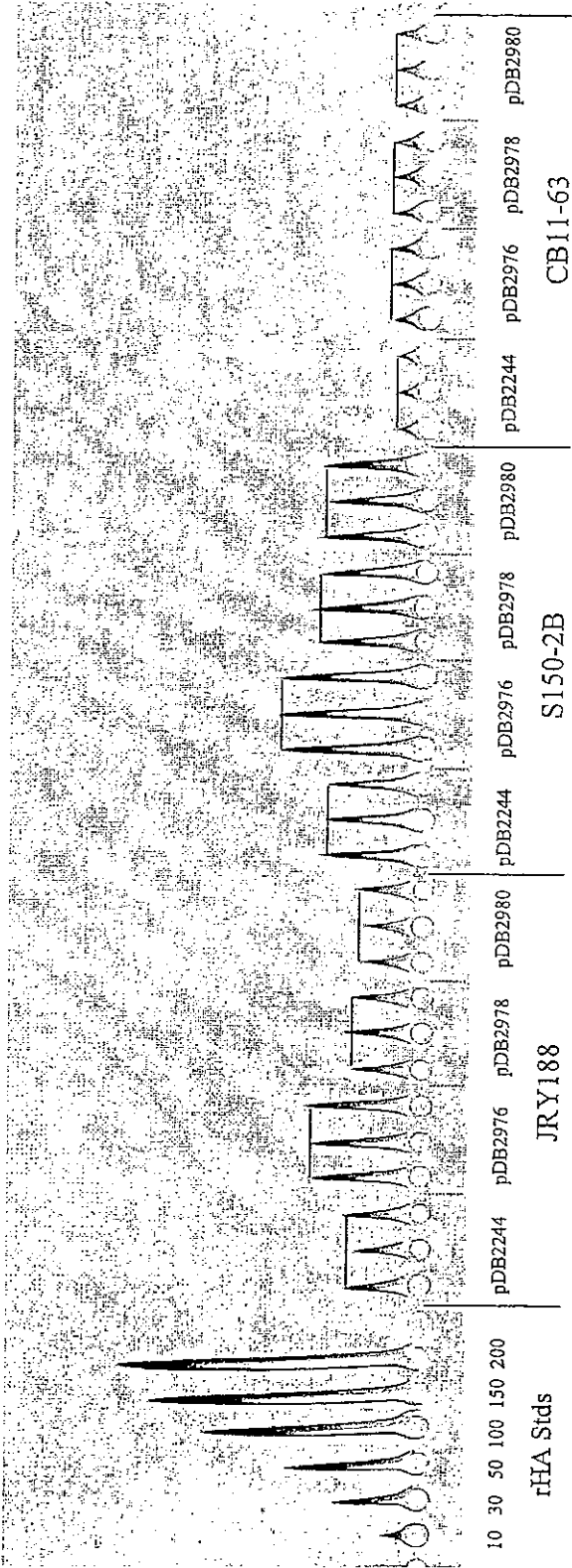


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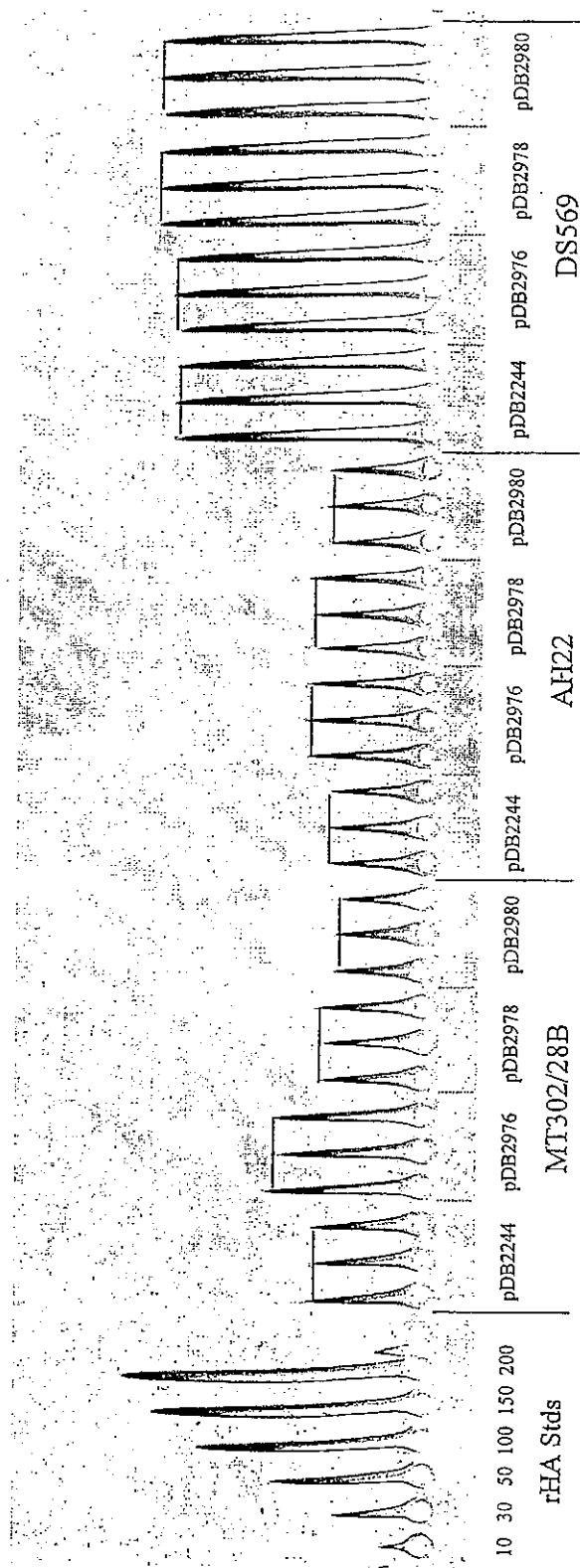


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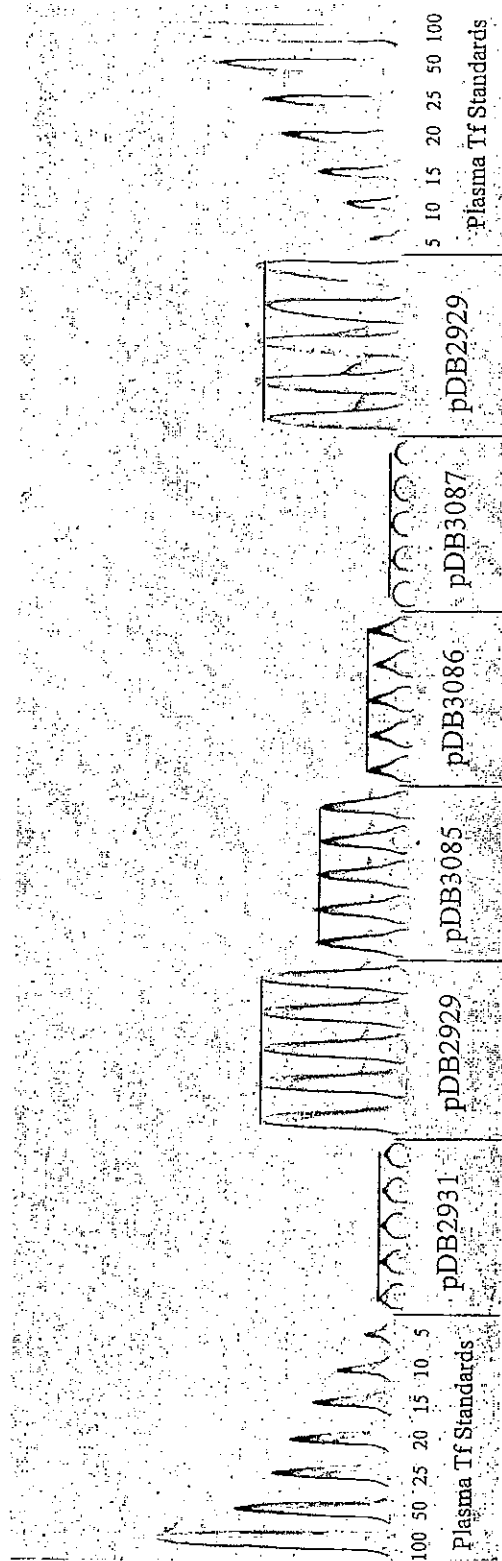


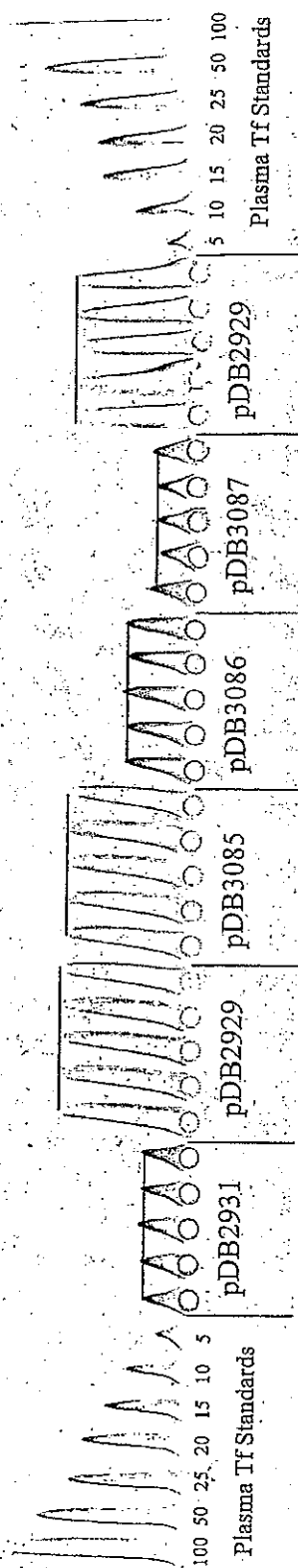
Figure 56

FIGURE 58

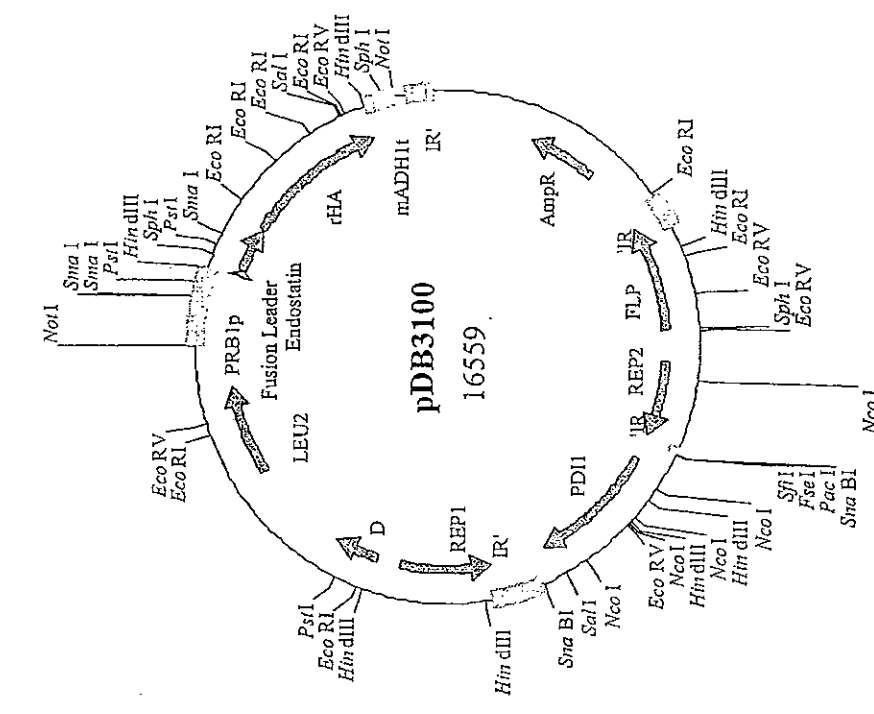


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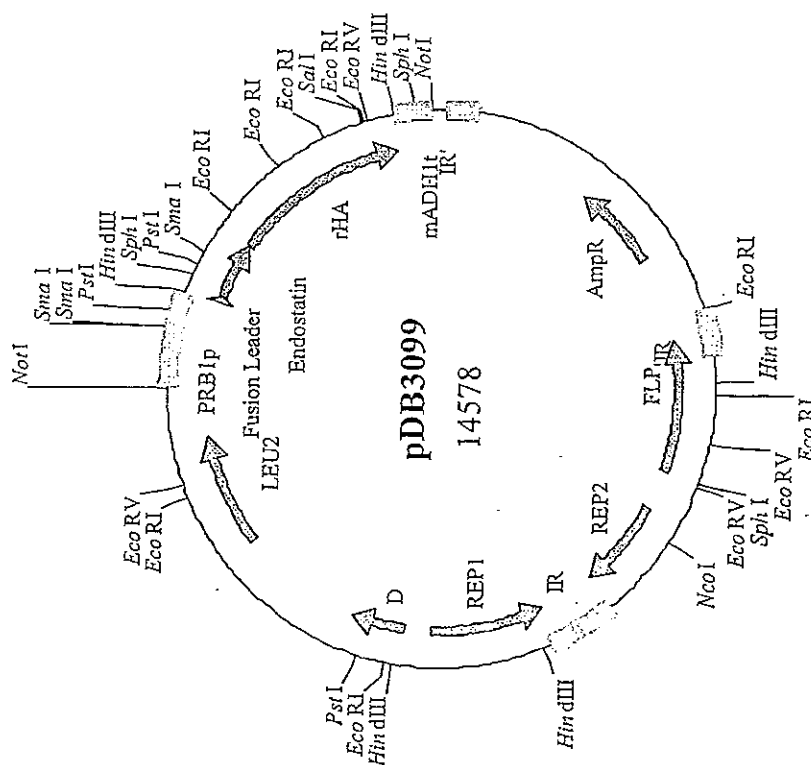


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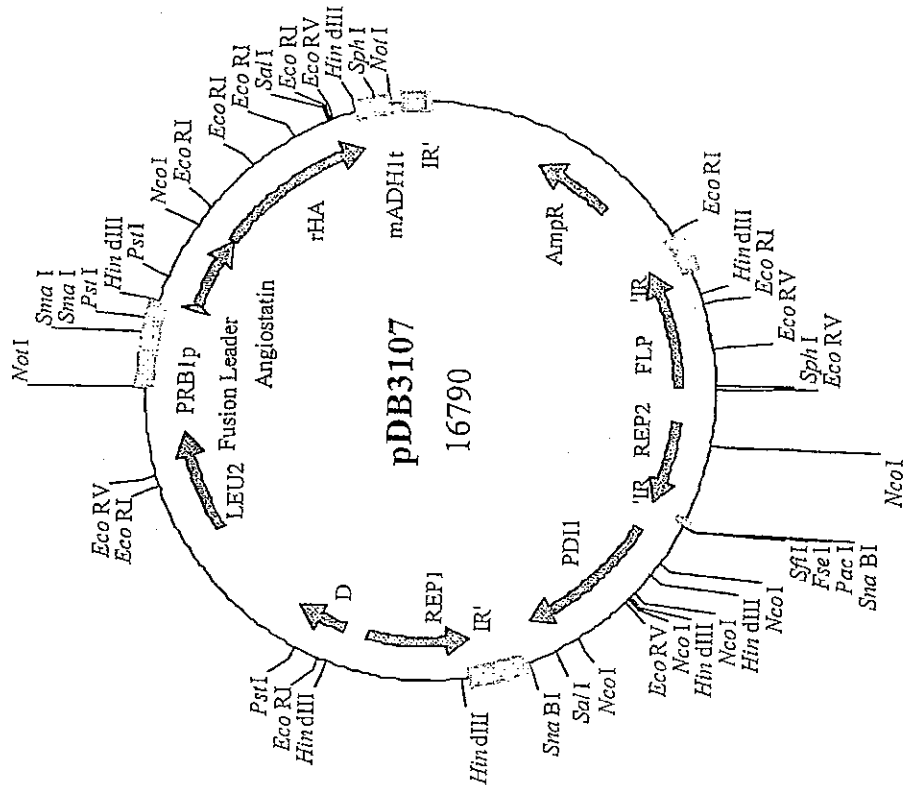


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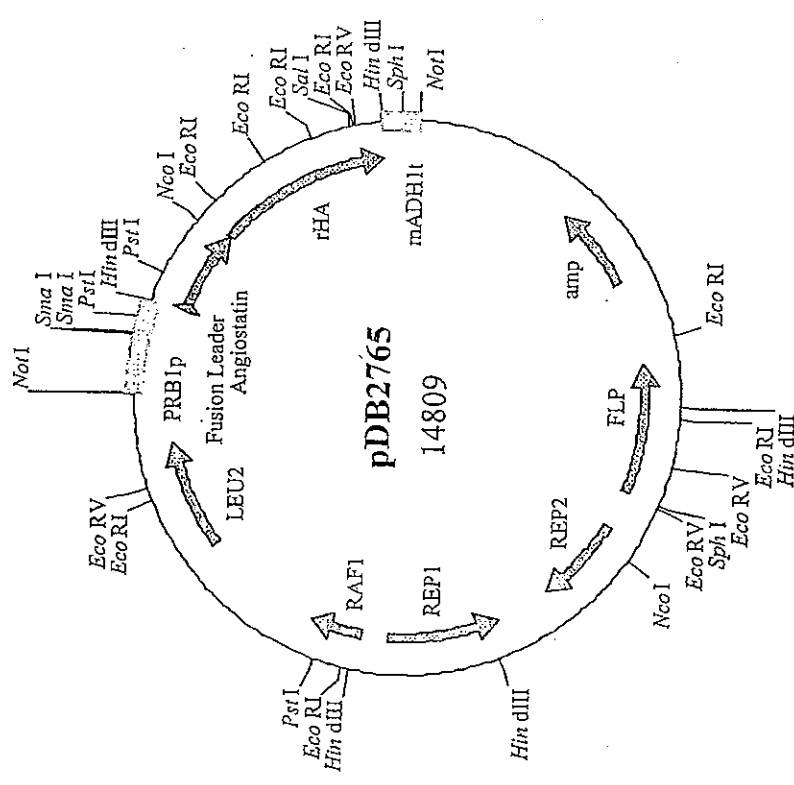


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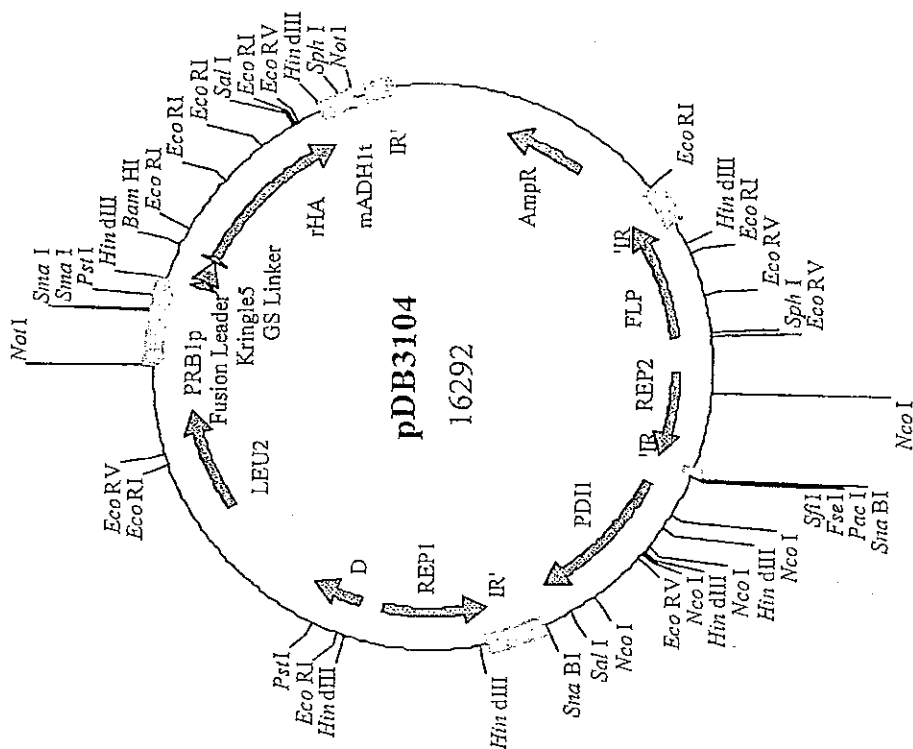


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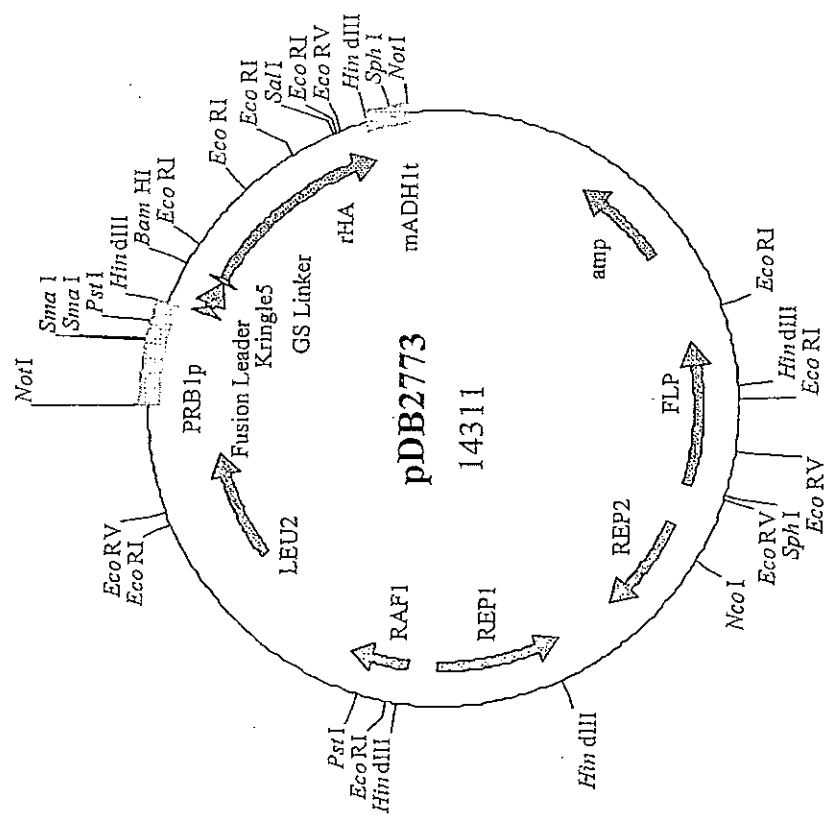


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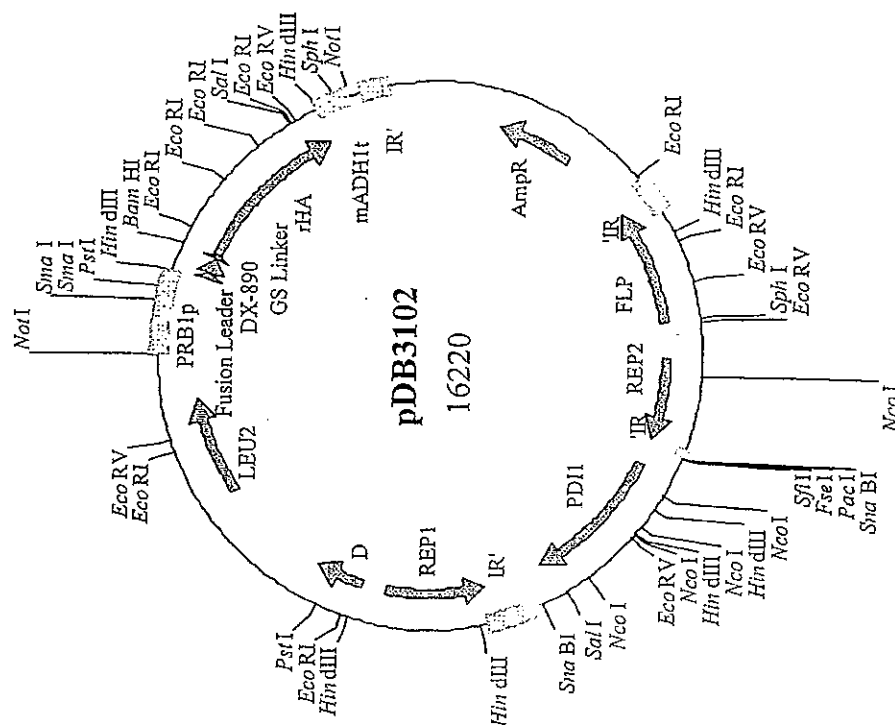


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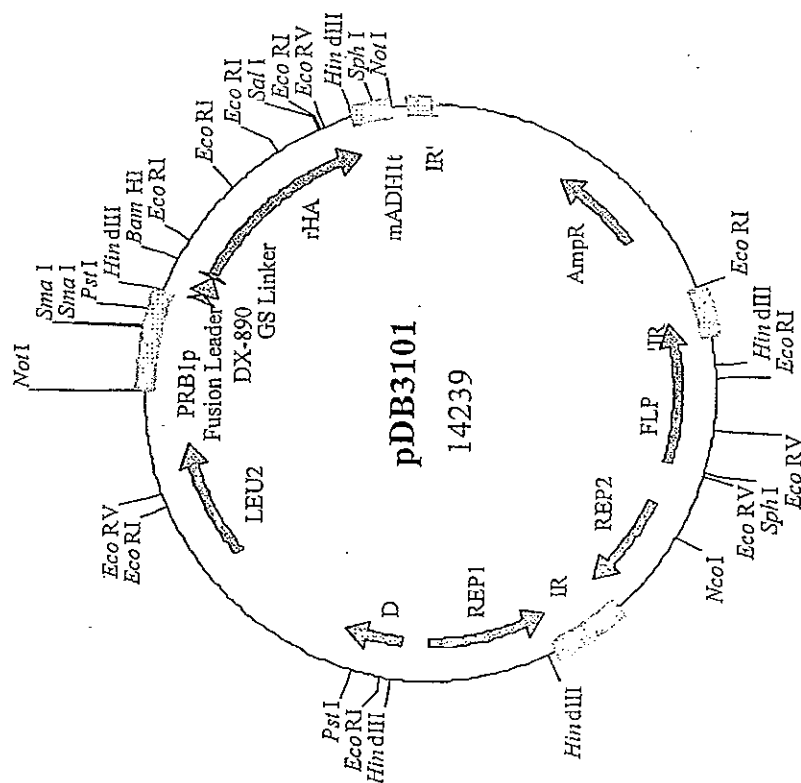


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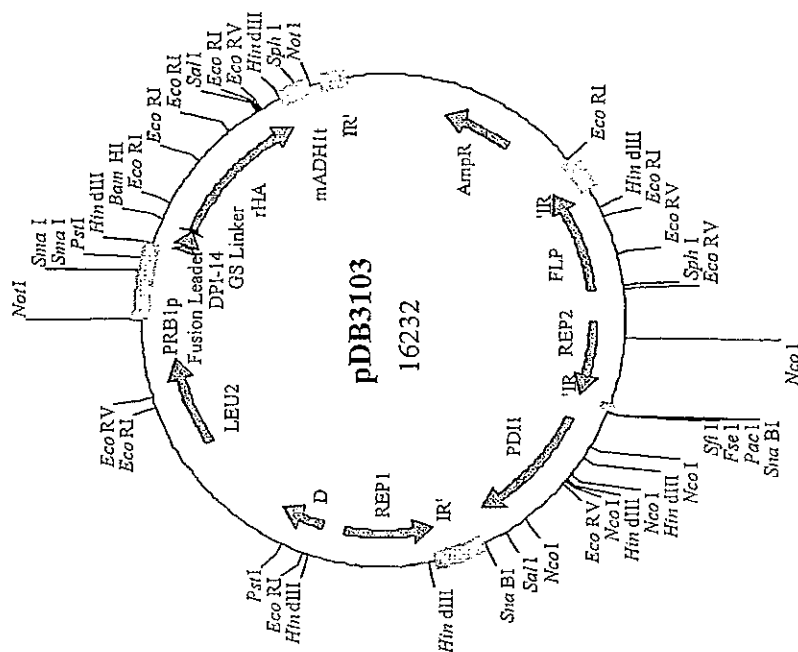


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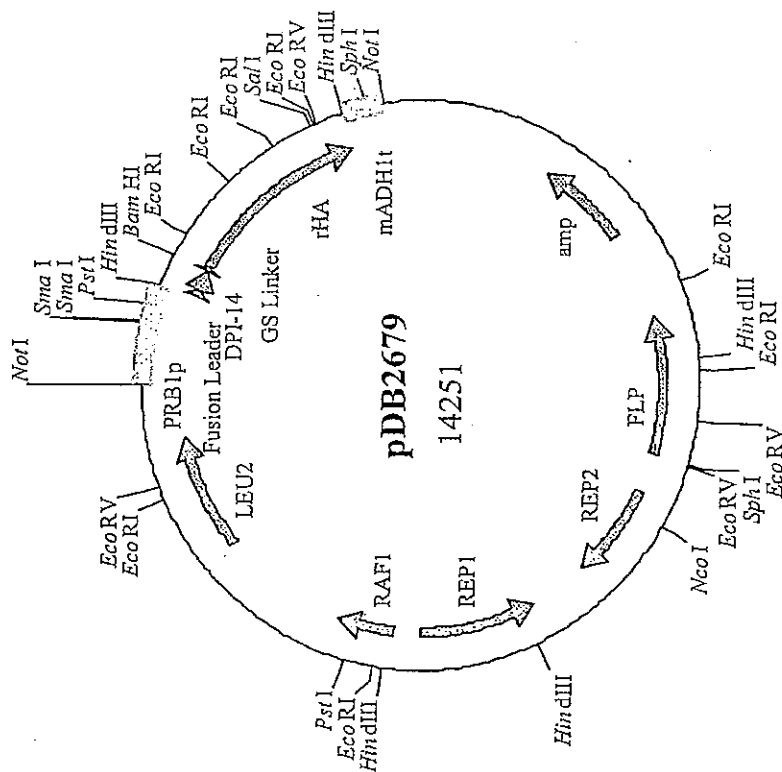


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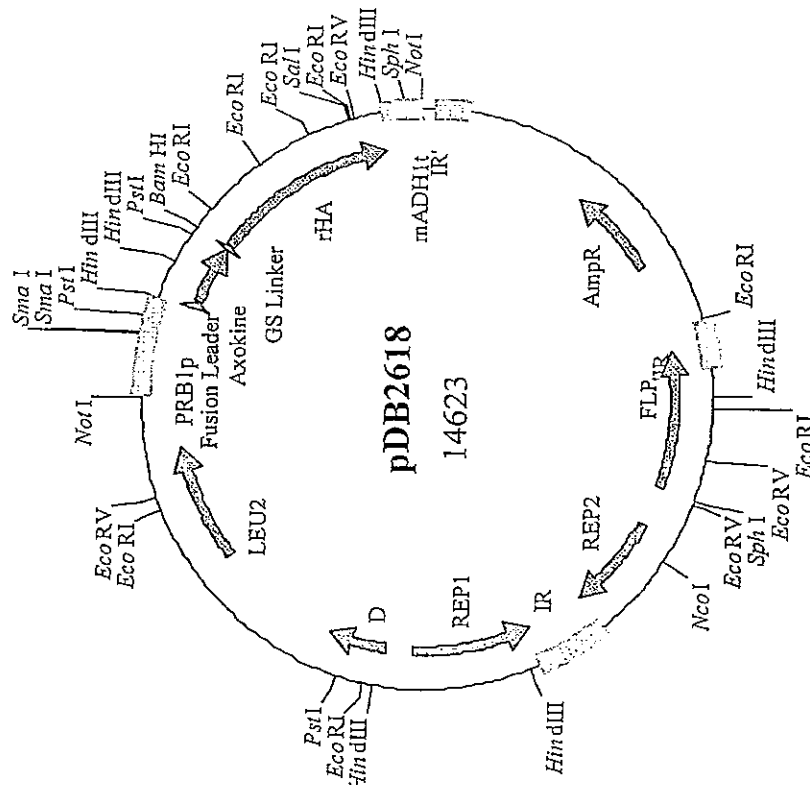


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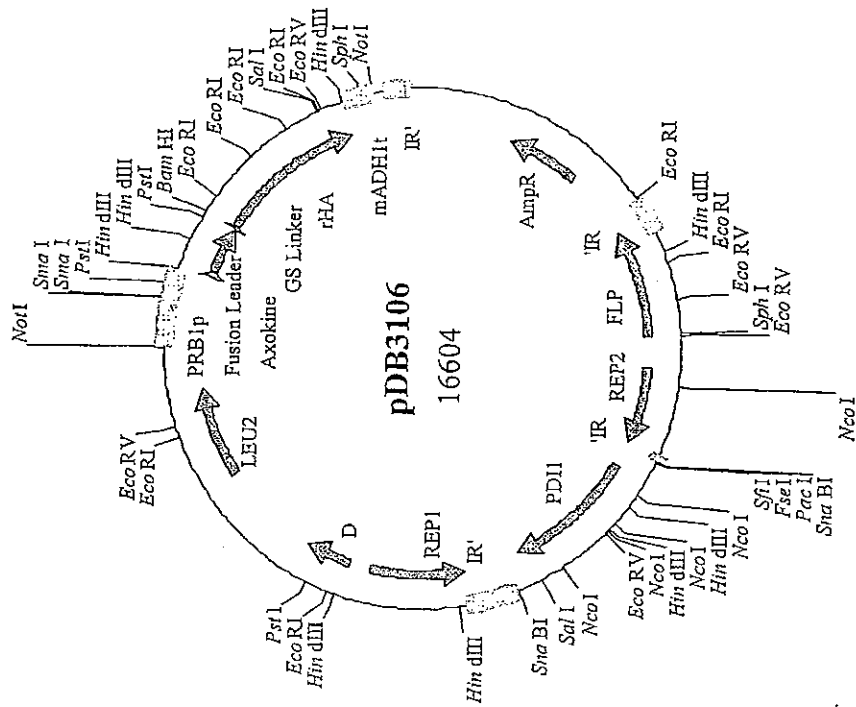


FIGURE 69

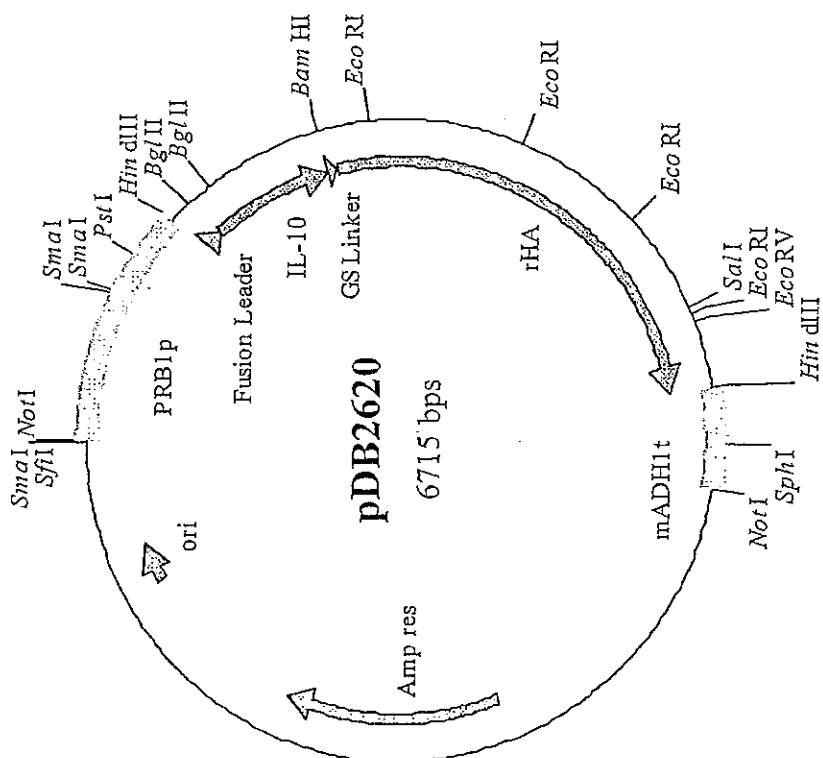


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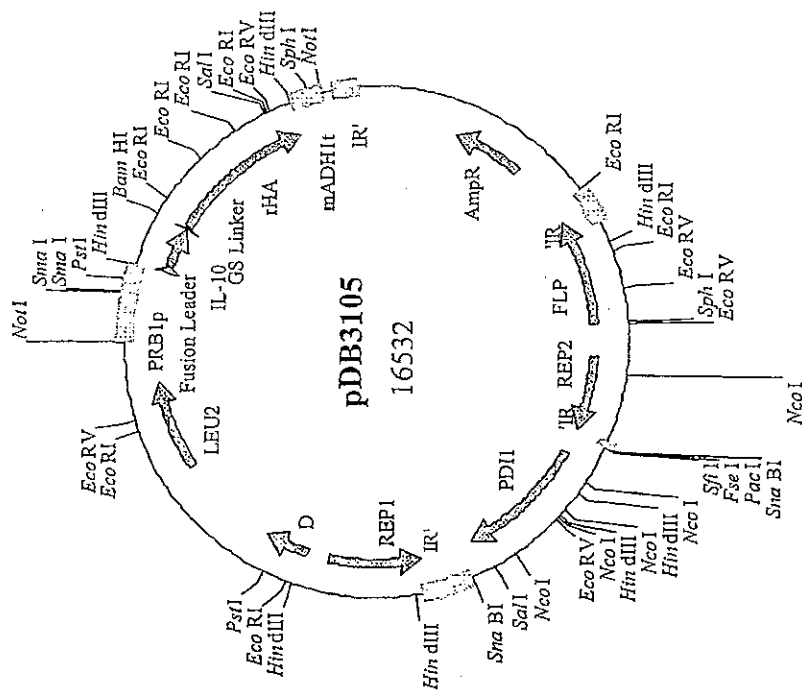


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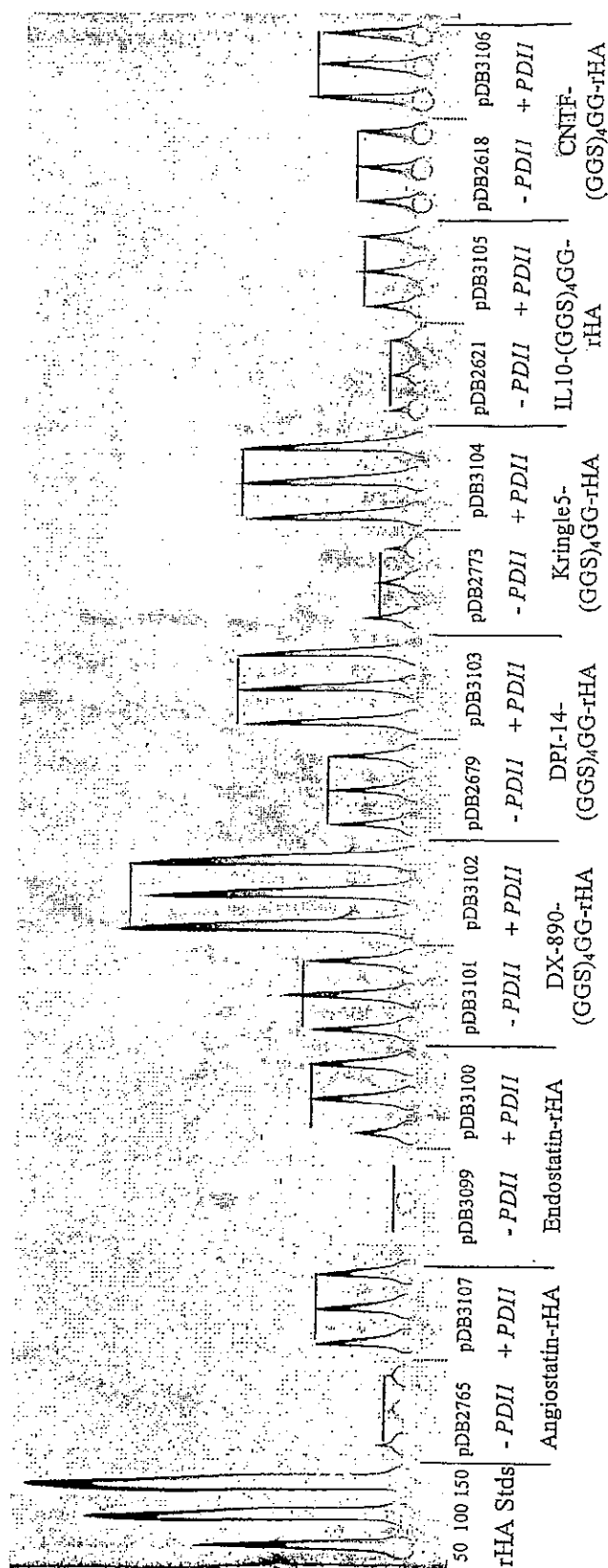


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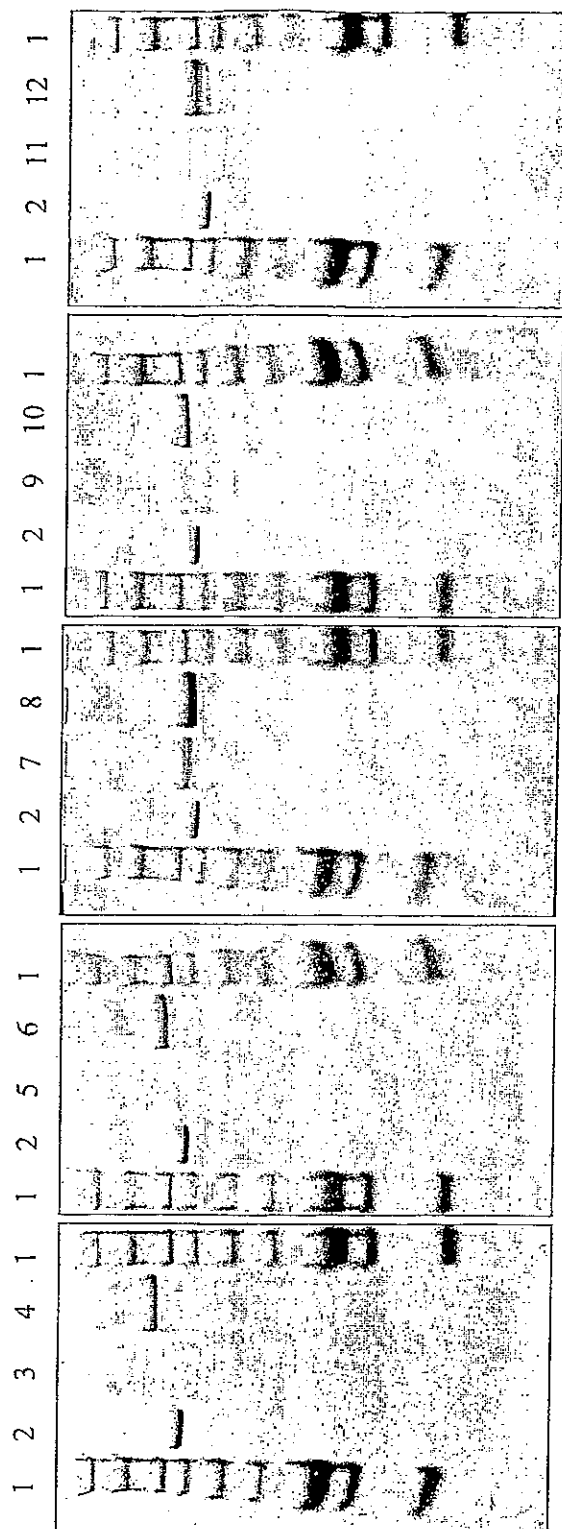


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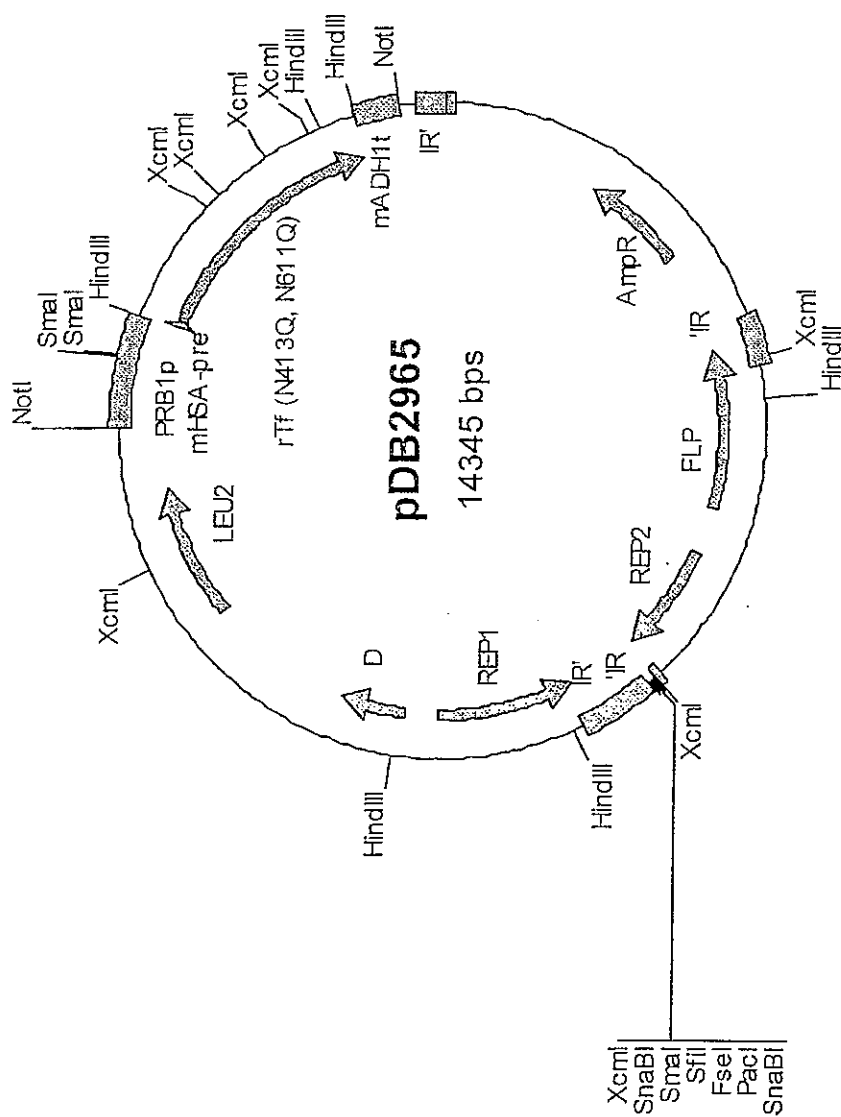


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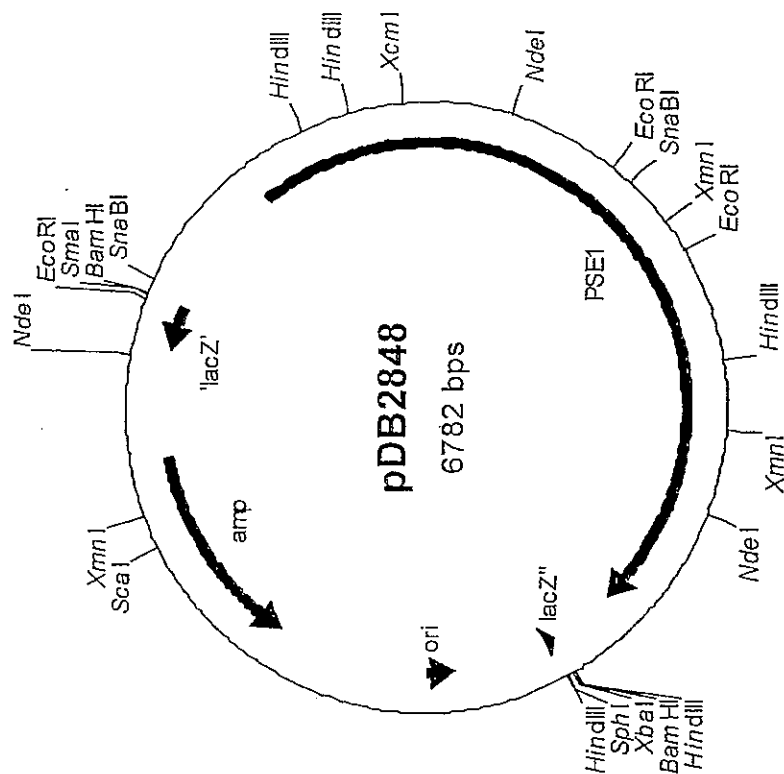


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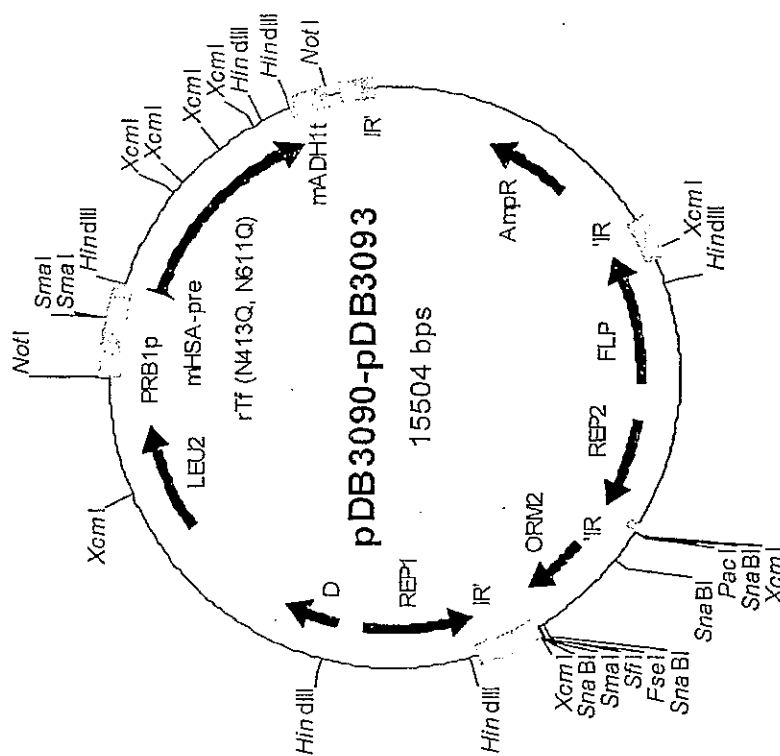


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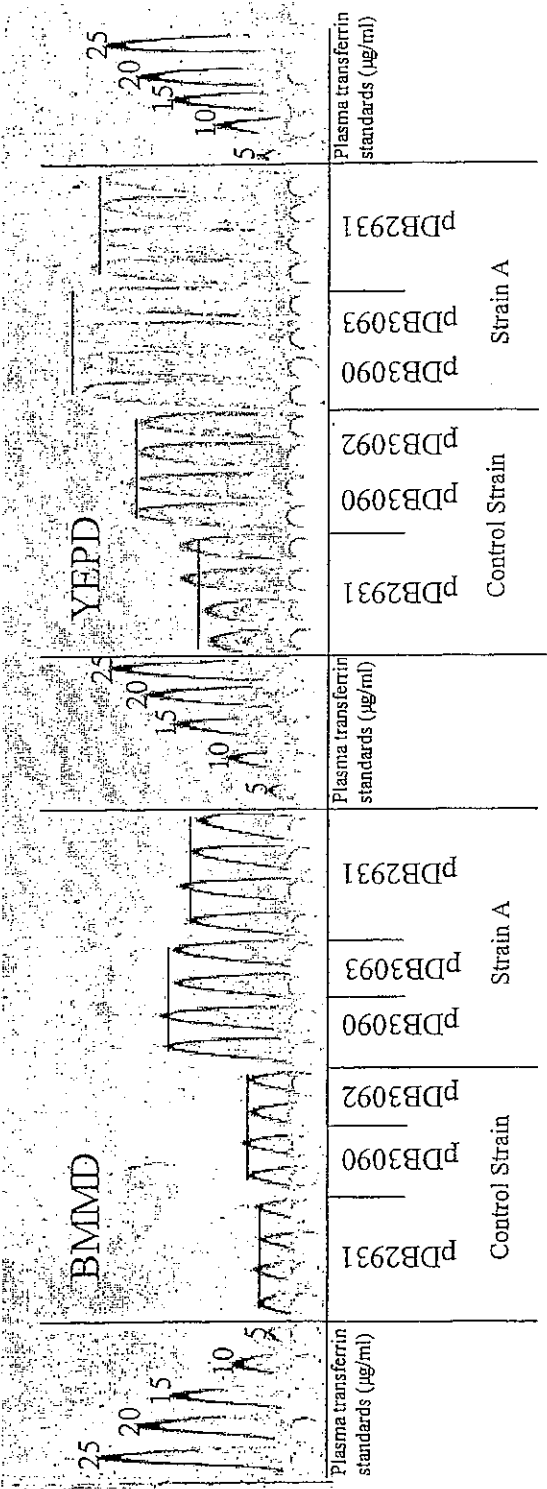


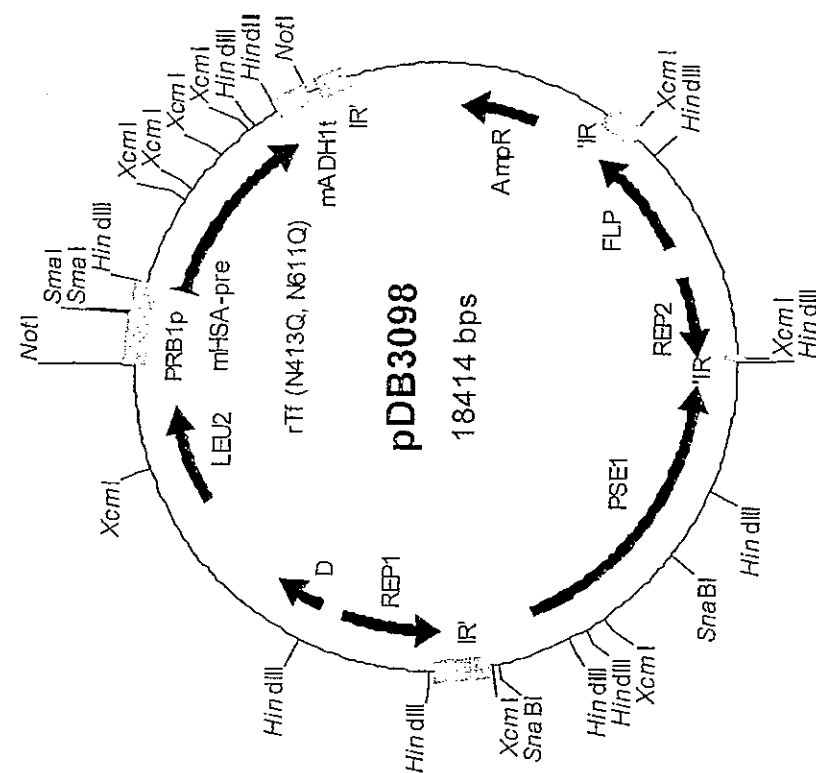
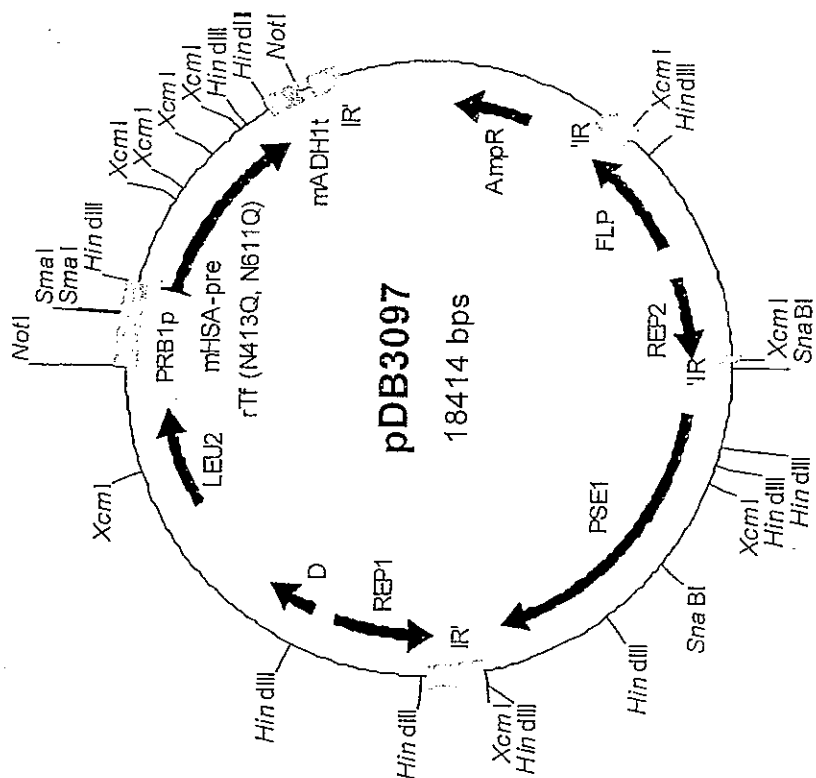
FIGURE 78**FIGURE 79**

Figure 80

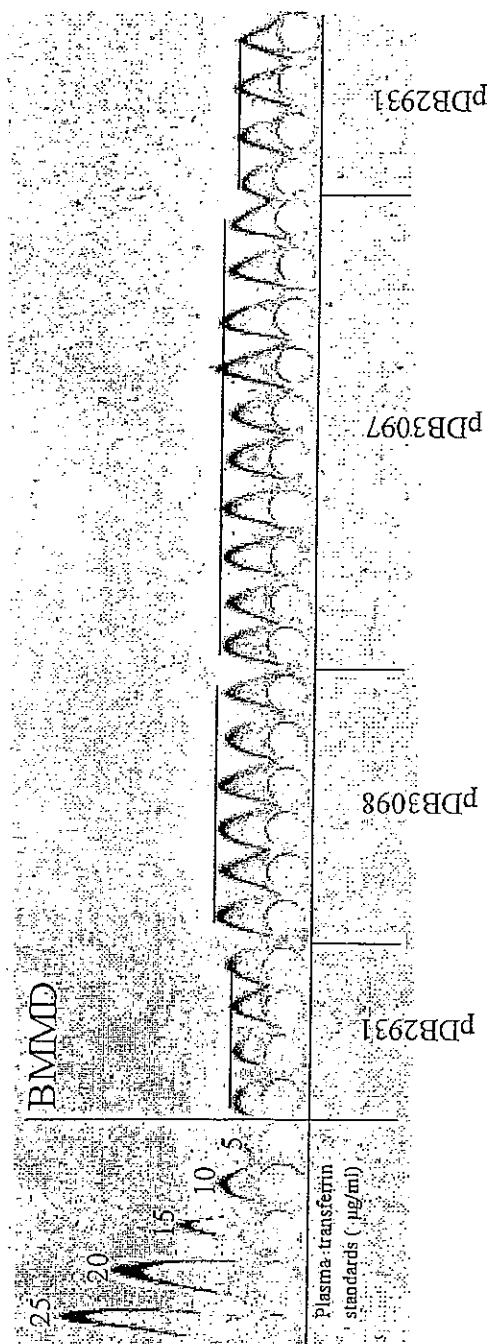


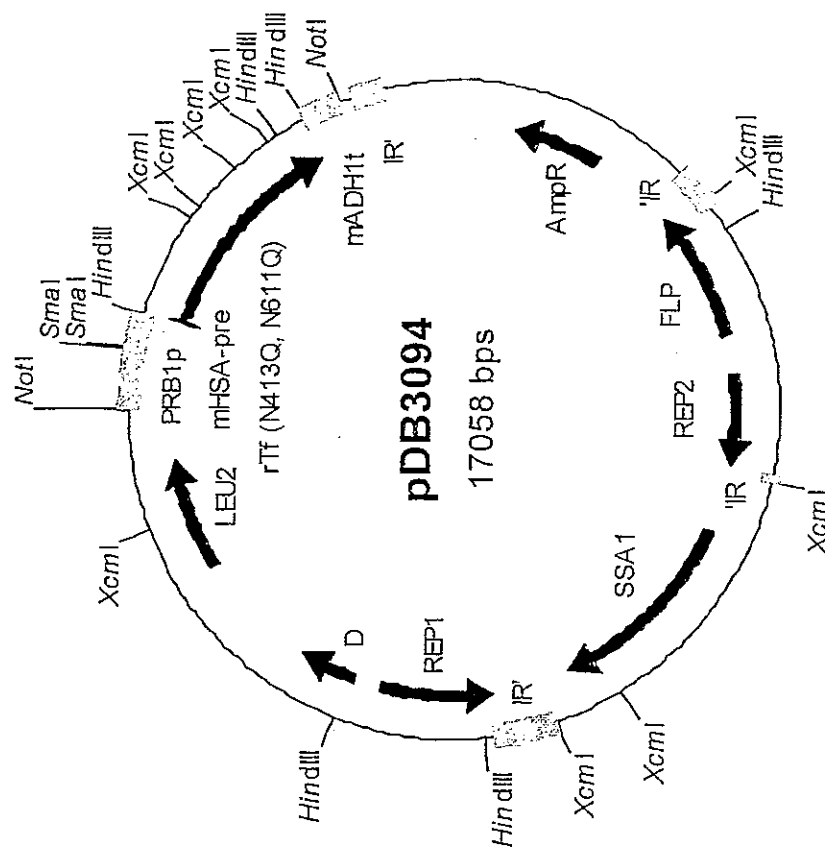
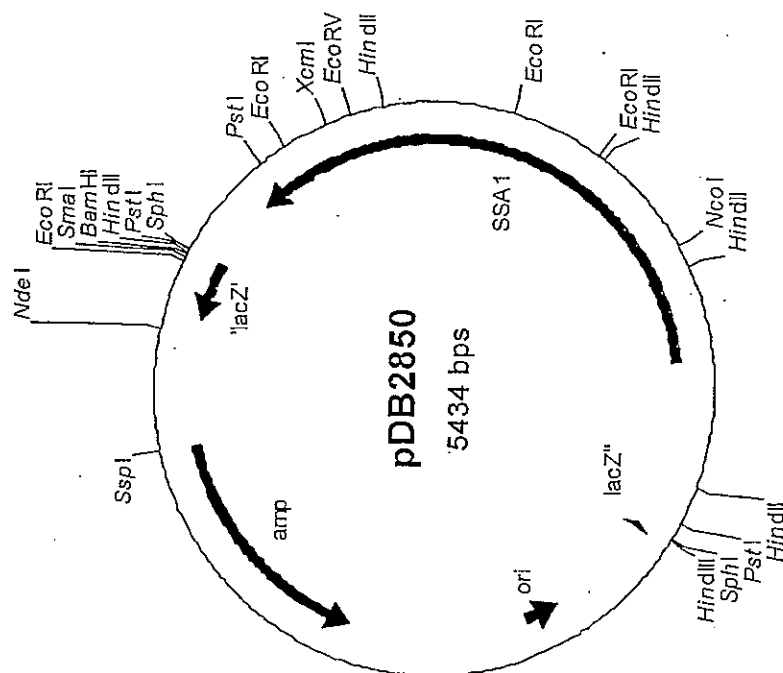
FIGURE 82**FIGURE 81**

FIGURE 85

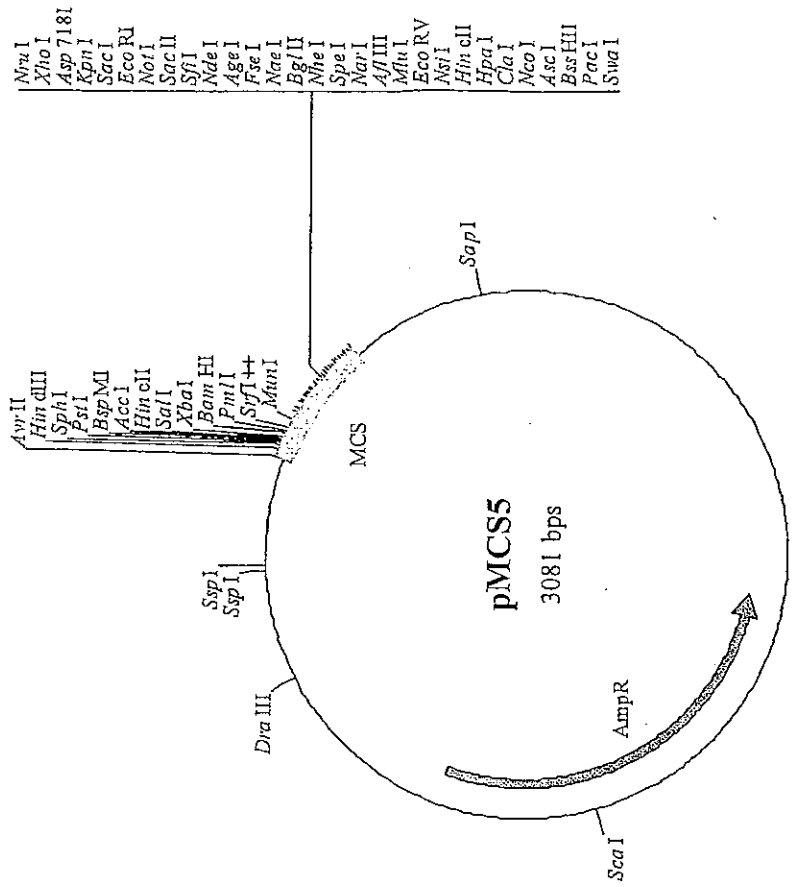


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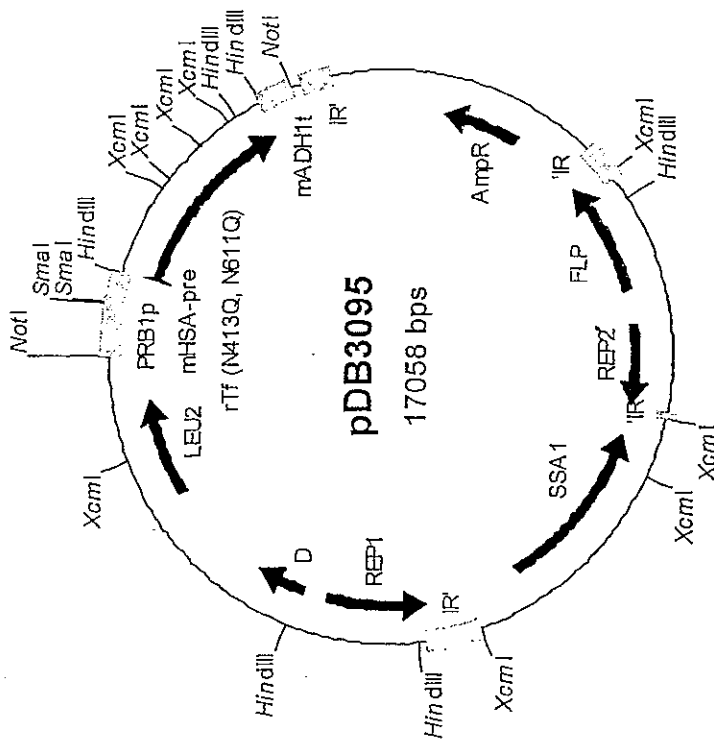


Figure 84

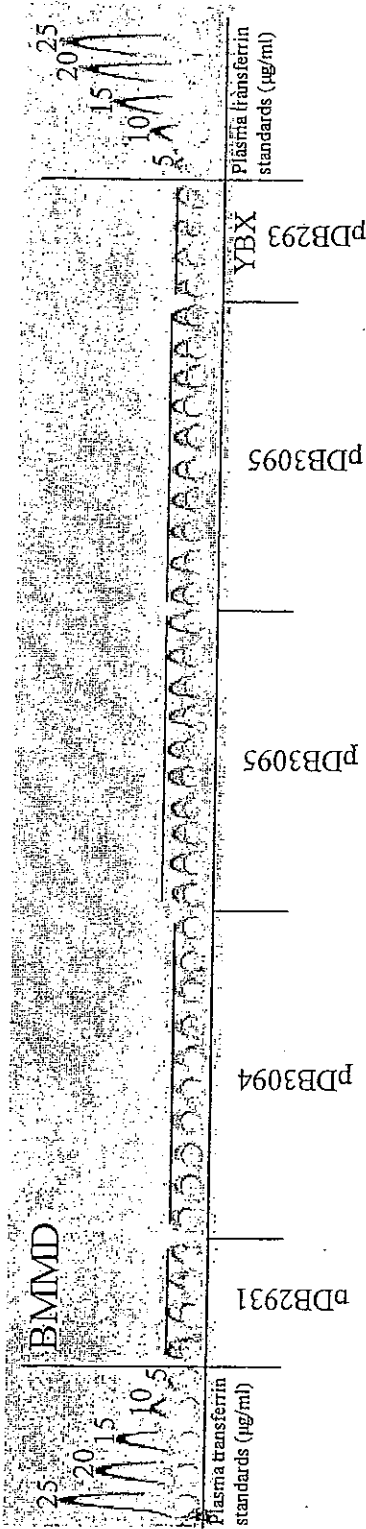


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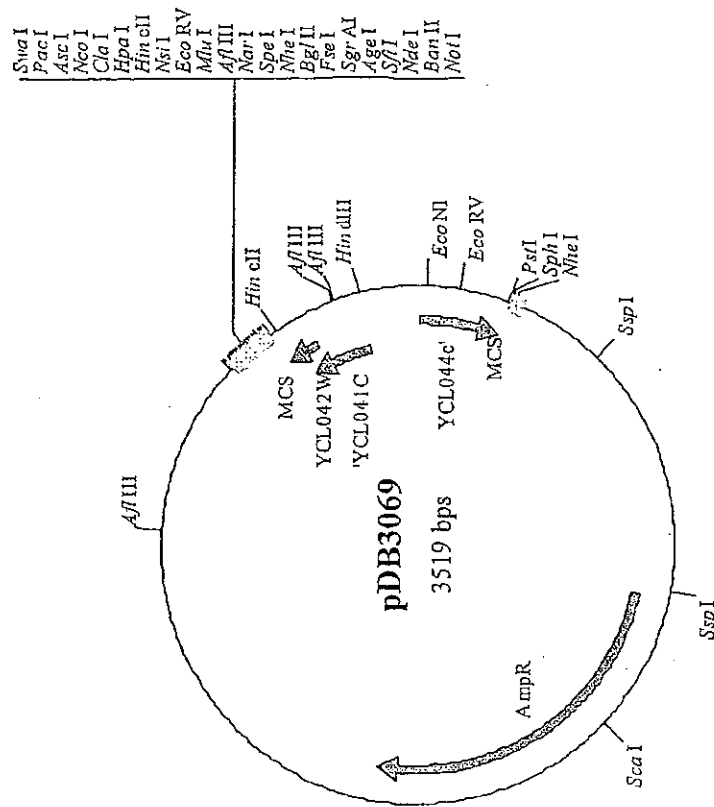


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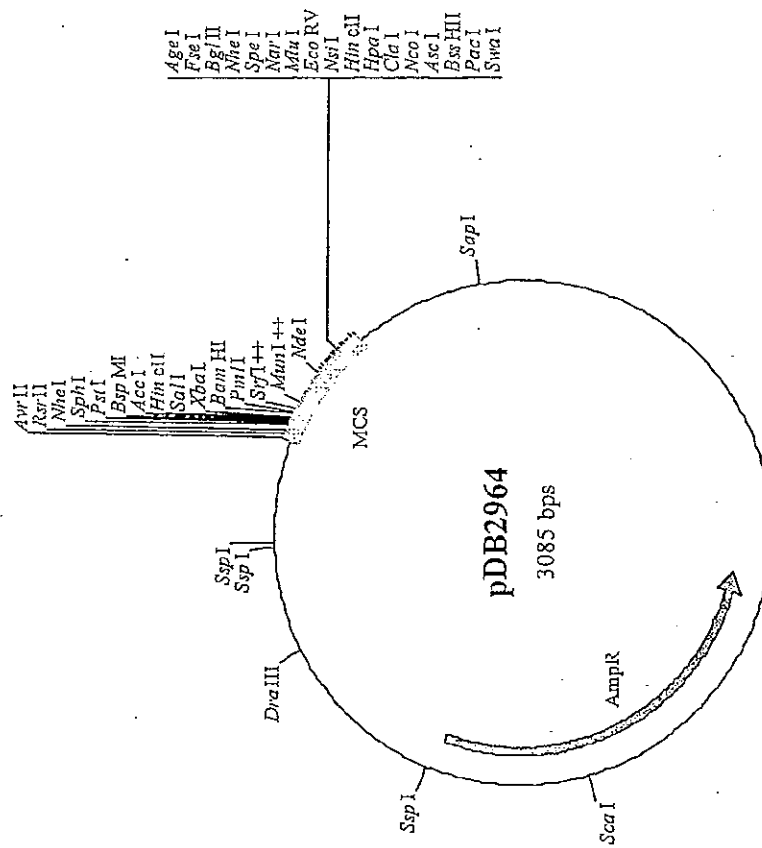


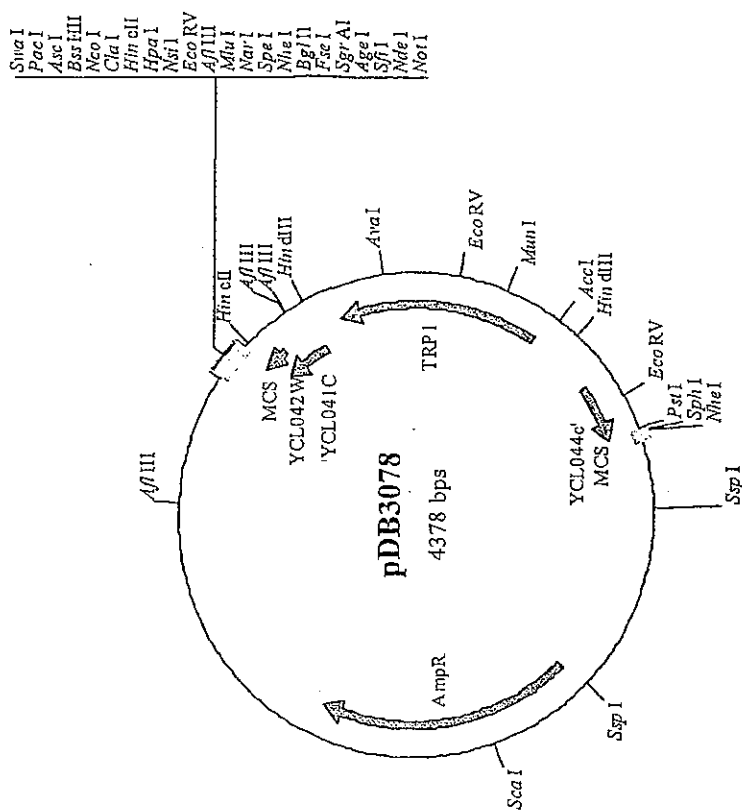
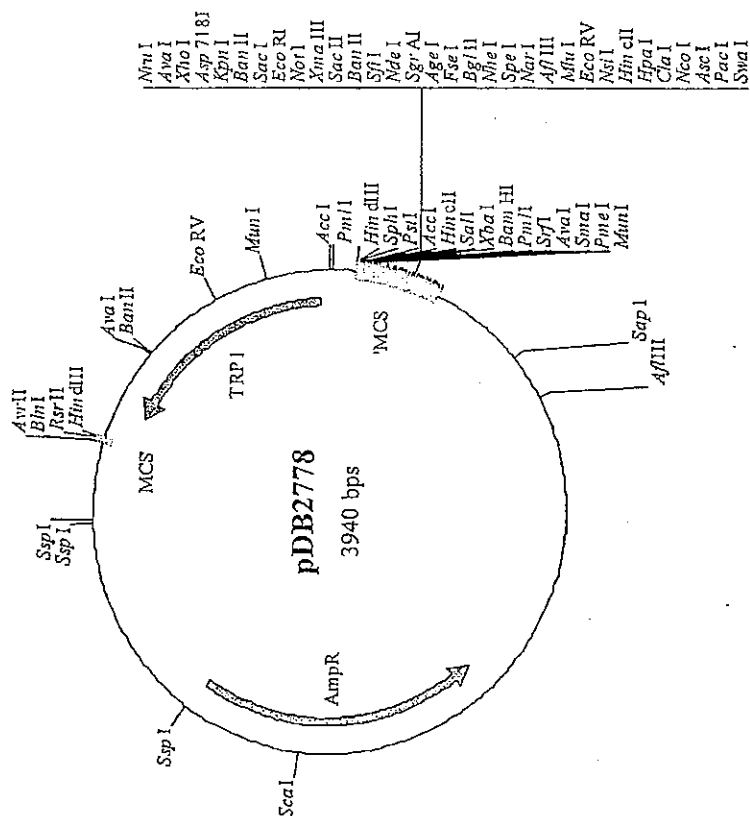
FIGURE 89**FIGURE 88**

FIGURE 91

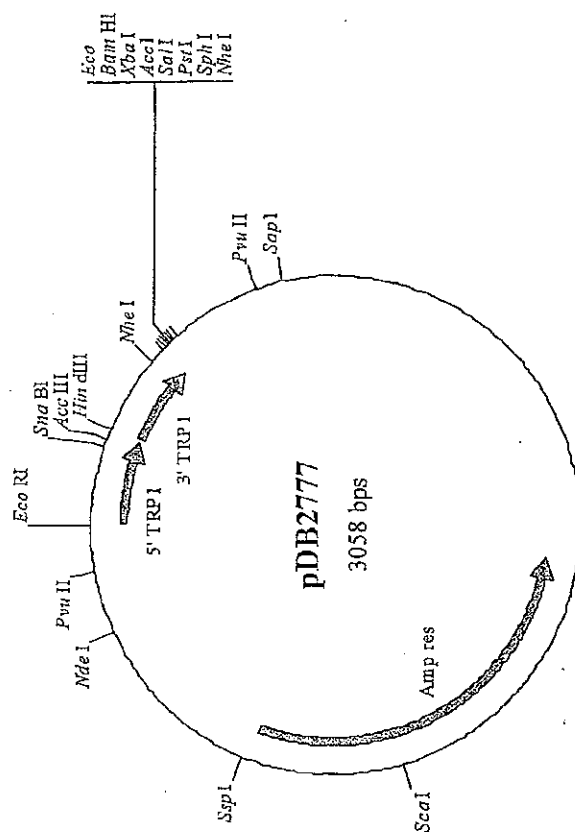


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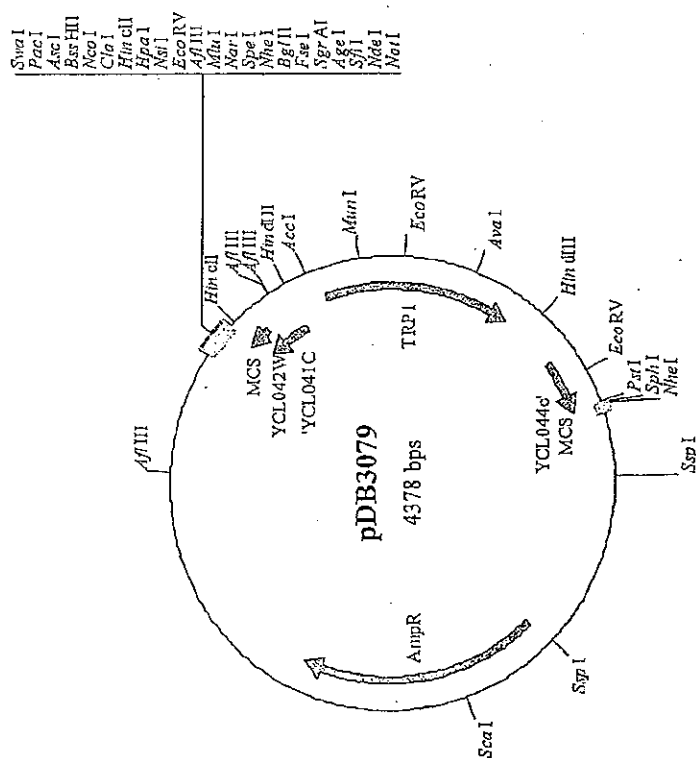


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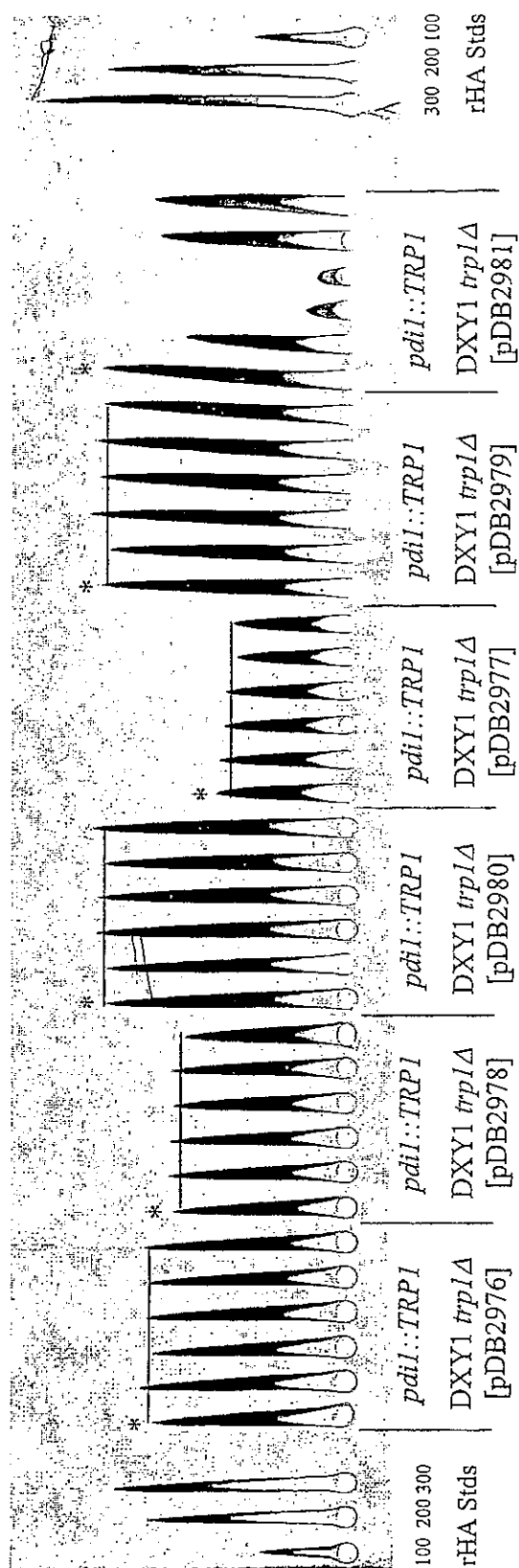
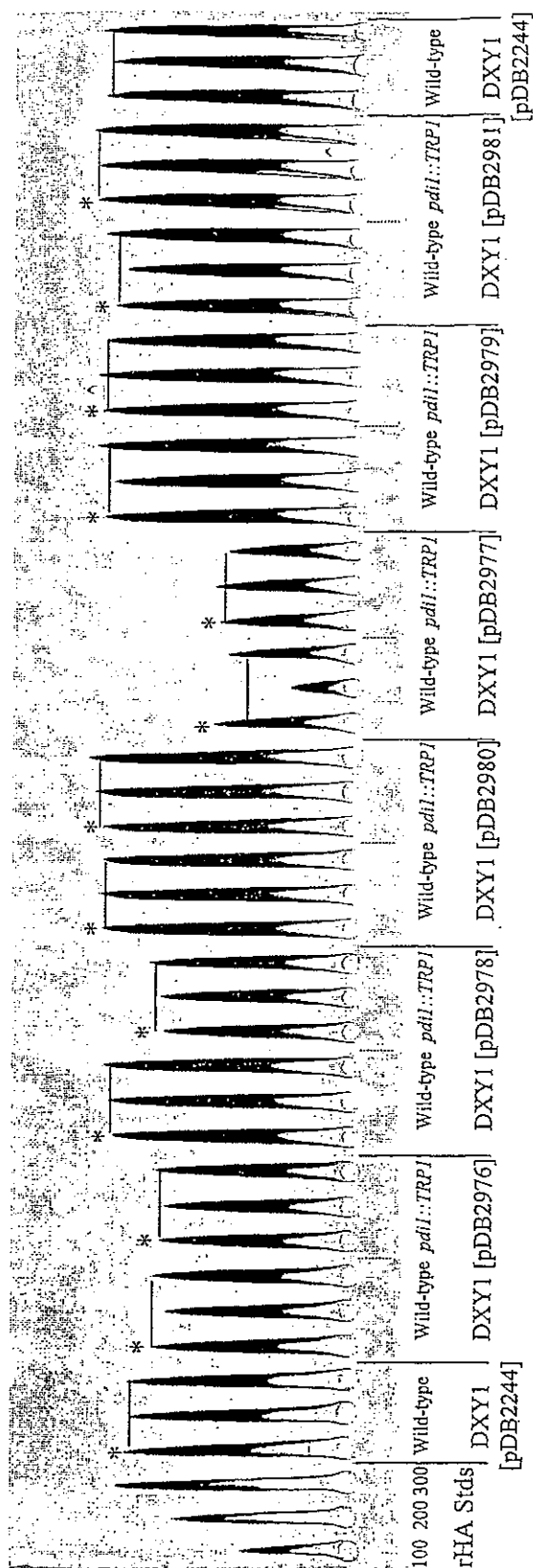


FIGURE 93



Alignment Workspace of ExL:meg J. Hein (Weighted)

20 December 2004 15:04

Page 2

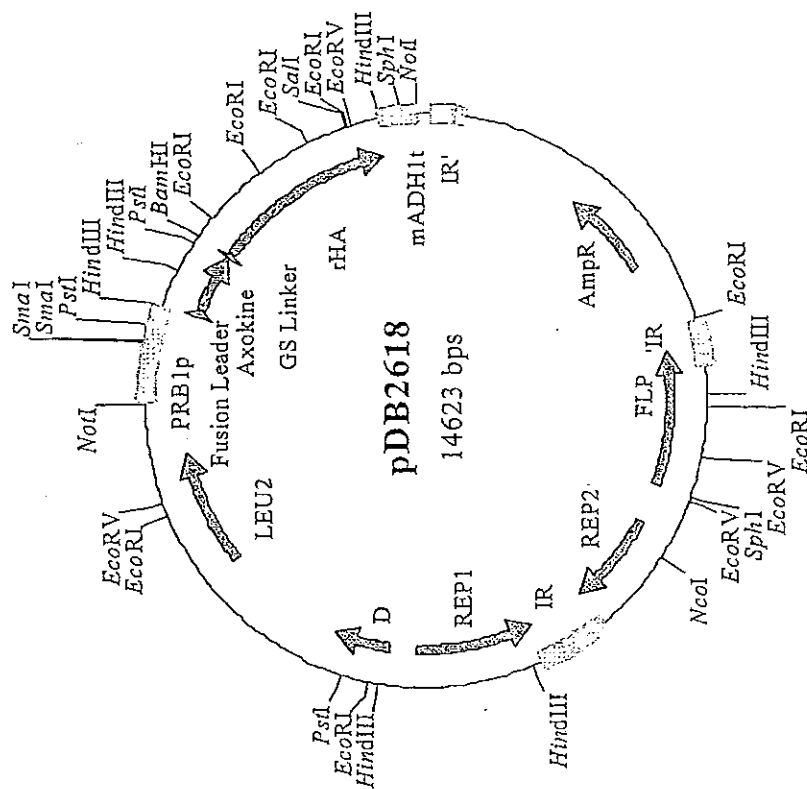
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Figure 94C

Alignment Workspace of ExL.meg J. Hein (Weighted)
20 December 2004 15:04

Page 3

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SKQ2n long	1421	1431	1441	1451	1461	1471	1481	1491	1501	1511	1521
S288c long	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540
SKQ2n long	1531	1541	1551	1561	1571	1581	1591	1601	1611	1621	1631
S288c long	1550	1560	1570	1580	1590	1600	1610	1620	1630	1640	1650
SKQ2n long	1641	1651	1661	1671	1681	1691	1701	1711	1721	1731	1741
S288c long	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760
SKQ2n long	1751	1761	1771	1781	1791	1801	1811	1821	1831	1841	1851
S288c long	1770	1780	1790	1800	1810	1820	1830	1840	1850	1860	1870
SKQ2n long	1861	1871	1881	1891	1901	1911	1921	1931	1941	1951	1961
S288c long	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980
SKQ2n long	1971	1981	1991	2001	2011	2021	2031	2041	2051	2061	2071
S288c long	1990	2000	2010	2020	2030	2040	2050	2060	2070	2080	2090
SKQ2n long	2081	2091	2101	2111	2121	2131	2141	2151	2161	2171	2181
S288c long	2100	2110	2120	2130	2140	2150	2160	2170	2180	2190	2200
SKQ2n long	2191	2201	2211	2221	2231	2241	2251	2261	2271	2281	2291
S288c long	2210	2220	2230	2240	2250	2260	2270	2280	2290	2300	2310
SKQ2n long	2301	2311	2321	2331	2341	2351	2361	2371	2381	2391	2401
S288c long	2310	2320	2330	2340	2350	2360	2370	2380	2390	2400	2410
SKQ2n long	2401	2411	2421	2431	2441	2451	2461	2471	2481	2491	2501
S288c long	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	2510
SKQ2n long	2501	2511	2521	2531	2541	2551	2561	2571	2581	2591	2601
S288c long	2510	2520	2530	2540	2550	2560	2570	2580	2590	2600	2610
SKQ2n long	2601	2611	2621	2631	2641	2651	2661	2671	2681	2691	2701
S288c long	2610	2620	2630	2640	2650	2660	2670	2680	2690	2700	2710
SKQ2n long	2701	2711	2721	2731	2741	2751	2761	2771	2781	2791	2801
S288c long	2710	2720	2730	2740	2750	2760	2770	2780	2790	2800	2810
SKQ2n long	2801	2811	2821	2831	2841	2851	2861	2871	2881	2891	2901
S288c long	2810	2820	2830	2840	2850	2860	2870	2880	2890	2900	2910
SKQ2n long	2901	2911	2921	2931	2941	2951	2961	2971	2981	2991	3001
S288c long	2910	2920	2930	2940	2950	2960	2970	2980	2990	3000	3010
SKQ2n long	3001	3011	3021	3031	3041	3051	3061	3071	3081	3091	3101
S288c long	3010	3020	3030	3040	3050	3060	3070	3080	3090	3100	3110
SKQ2n long	3101	3111	3121	3131	3141	3151	3161	3171	3181	3191	3201
S288c long	3110	3120	3130	3140	3150	3160	3170	3180	3190	3200	3210
SKQ2n long	3201	3211	3221	3231	3241	3251	3261	3271	3281	3291	3301
S288c long	3210	3220	3230	3240	3250	3260	3270	3280	3290	3300	3310
SKQ2n long	3301	3311	3321	3331	3341	3351	3361	3371	3381	3391	3401
S288c long	3310	3320	3330	3340	3350	3360	3370	3380	3390	3400	3410
SKQ2n long	3401	3411	3421	3431	3441	3451	3461	3471	3481	3491	3501
S288c long	3410	3420	3430	3440	3450	3460	3470	3480	3490	3500	3510
SKQ2n long	3501	3511	3521	3531	3541	3551	3561	3571	3581	3591	3601
S288c long	3510	3520	3530	3540	3550	3560	3570	3580	3590	3600	3610
SKQ2n long	3601	3611	3621	3631	3641	3651	3661	3671	3681	3691	3701
S288c long	3610	3620	3630	3640	3650	3660	3670	3680	3690	3700	3710
SKQ2n long	3701	3711	3721	3731	3741	3751	3761	3771	3781	3791	3801
S288c long	3710	3720	3730	3740	3750	3760	3770	3780	3790	3800	3810
SKQ2n long	3801	3811	3821	3831	3841	3851	3861	3871	3881	3891	3901
S288c long	3810	3820	3830	3840	3850	3860	3870	3880	3890	3900	3910
SKQ2n long	3901	3911	3921	3931	3941	3951	3961	3971	3981	3991	4001
S288c long	3910	3920	3930	3940	3950	3960	3970	3980	3990	4000	4010
SKQ2n long	4001	4011	4021	4031	4041	4051	4061	4071	4081	4091	4101
S288c long	4010	4020	4030	4040	4050	4060	4070	4080	4090	4100	4110
SKQ2n long	4101	4111	4121	4131	4141	4151	4161	4171	4181	4191	4201
S288c long	4110	4120	4130	4140	4150	4160	4170	4180	4190	4200	4210
SKQ2n long	4201	4211	4221	4231	4241	4251	4261	4271	4281	4291	4301
S288c long	4210	4220	4230	4240	4250	4260	4270	4280	4290	4300	4310
SKQ2n long	4301	4311	4321	4331	4341	4351	4361	4371	4381	4391	4401
S288c long	4310	4320	4330	4340	4350	4360	4370	4380	4390	4400	4410
SKQ2n long	4401	4411	4421	4431	4441	4451	4461	4471	4481	4491	4501
S288c long	4410	4420	4430	4440	4450	4460	4470	4480	4490	4500	4510
SKQ2n long	4501	4511	4521	4531	4541	4551	4561	4571	4581	4591	4601
S288c long	4510	4520	4530	4540	4550	4560	4570	4580	4590	4600	4610
SKQ2n long	4601	4611	4621	4631	4641	4651	4661	4671	4681	4691	4701
S288c long	4610	4620	4630	4640	4650	4660	4670	4680	4690	4700	4710
SKQ2n long	4701	4711	4721	4731	4741	4751	4761	4771	4781	4791	4801
S288c long	4710	4720	4730	4740	4750	4760	4770	4780	4790	4800	4810
SKQ2n long	4801	4811	4821	4831	4841	4851	4861	4871	4881	4891	4901
S288c long	4810	4820	4830	4840	4850	4860	4870	4880	4890	4900	4910
SKQ2n long	4901	4911	4921	4931	4941	4951	4961	4971	4981	4991	5001
S288c long	4910	4920	4930	4940	4950	4960	4970	4980	4990	5000	5010
SKQ2n long	5001	5011	5021	5031	5041	5051	5061	5071	5081	5091	5101
S288c long	5010	5020	5030	5040	5050	5060	5070	5080	5090	5100	5110
SKQ2n long	5101	5111	5121	5131	5141	5151	5161	5171	5181	5191	5201
S288c long	5110	5120	5130	5140	5150	5160	5170	5180	5190	5200	5210
SKQ2n long	5201	5211	5221	5231	5241	5251	5261	5271	5281	5291	5301
S288c long	5210	5220	5230	5240	5250	5260	5270	5280	5290	5300	5310
SKQ2n long	5301	5311	5321	5331	5341	5351	5361	5371	5381	5391	5401
S288c long	5310	5320	5330	5340	5350	5360	5370	5380	5390	5400	5410
SKQ2n long	5401	5411	5421	5431	5441	5451	5461	5471	5481	5491	5501
S288c long	5410	5420	5430	5440	5450	5460	5470	5480	5490	5500	5510
SKQ2n long	5501	5511	5521	5531	5541	5551	5561	5571	5581	5591	5601
S288c long	5510	5520	5530	5540	5550	5560	5570	5580	5590	5600	5610
SKQ2n long	5601	5611	5621	5631	5641	5651	5661	5671	5681	5691	5701
S288c long	5610	5620	5630	5640	5650	5660	5670	5680	5690	5700	5710
SKQ2n long	5701	5711	5721	5731	5741	5751	5761	5771	5781	5791	5801
S288c long	5710	5720	5730	5740	5750	5760	5770	5780	5790	5800	5810
SKQ2n long	5801	5811	5821	5831	5841	5851	5861	5871	5881	5891	5901
S288c long	5810	5820	5830	5840	5850	5860	5870	5880	5890	5900	5910
SKQ2n long	5901	5911	5921	5931	5941	5951	5961	5971	5981	5991	6001
S288c long	5910	5920	5930	5940	5950	5960	5970	5980	5990	6000	6010
SKQ2n long	6001	6011	6021	6031	6041	6051	6061	6071	6081	6091	6101
S288c long	6010	6020	6030	6040	6050	6060	6070	6080	6090	6100	6110
SKQ2n long	6101	6111	6121	6131	6141	6151	6161	6171	6181	6191	6201
S288c long	6110	6120	6130	6140	6150	6160	6170	6180	6190	6200	6210
SKQ2n long	6201	6211	6221	6231	6241	6251	6261	6271	6281	6291	6301
S288c long	6210	6220	6230	6240	6250	6260	6270	6280	6290	6300	6310
SKQ2n long	6301	6311	6321	6331	6341	6351	6361	6371	6381	6391	6401
S288c long	6310	6320	6330	6340	6350	6360	6370	6380	6390	6400	6410
SKQ2n long	6401	6411	6421	6431	6441	6451	6461	6471	6481	6491	6501
S288c long	6410	6420	6430	6440	6450	6460	6470	6480	6490	6500	6510
SKQ2n long	6501	6511	6521	6531	6541	6551	6561	6571	6581	6591	6601
S288c long	6510	6520	6530	6540	6550	6560	6570	6580	6590	6600	6610
SKQ2n long	6601	6611	6621	6631	6641	6651	6661	6671	6681	6691	6701
S288c long	6610	6620	6630	6640	6650	6660	6670	6680	6690	6700	6710
SKQ2n long	6701	6711	6721	6731							

Figure 96**Figure 95**