Restriction sites for pGEX-4T-1 Ava III (0): 2520, 3482, 3584, 3821, 3973, The following restriction site table *Avr* II (0): 4283, 4382, 4543, 4569, 4791 was compiled using DNASIS Bal I (1): 463 Bsr I (6): 1138, 1688, 2636, 2649, software for sequence analysis. The BamH I (1): 930 3323, 3522 enzymes chosen are those which we Ban I (6): 2211, 3588, 4307, 4437, BsrF I (2): 2079, 3354 believe to have been commercially 4717, 4729 BssH II (1): 4079 available in June 1992. Ban II (1): 3875 Bst1107 I (0): The vector pGEX-4T-1 was not *Bbr*P I (0): BstB I (1): 654 tested with each enzyme and Bbs I (3): 1174, 3807, 4146 BstE II (1): 3849 therefore the accuracy of the table BstN I (11): 764, 2892, 2905, 3026, Bbs I (0): cannot be guaranteed. Please Bbv I (11): 42, 1031, 1128, 1920, 3392, 3707, 4247, 4304, 4443, contact your local Pharmacia 2109, 2711, 3130, 3148, 4358, 4580, 4707 subsidiary if a 4607, 4680 BstU I (27): 360, 925, 992, 994, discrepancy is identified. 1097, 1272, 1604, 2097, 2427, Bbv I (7): 1731, 2425, 2631, 2634, 3008, 3267, 3381, 3418, 3468, Please note that enzymes with non-3717, 4088, 4217 palindromic recognition sequences 3539, 3557, 3573, 3662, 3669, Bcg I (1): 3971 are listed twice. You must combine Bcg I (2): 299, 1637 3817, 3863, 3898, 4080, 4104, both entries to obtain the total Bcl I (2): 692, 3682 4335, 4337, 4941 number of sites for these enzymes. Bfa I (4): 270, 1971, 2306, 2559 BstX I (3): 3463, 3592, 3715 Locations represent the 5' end of the Bfr I (0): BstY I (8): 914, 930, 1517, 1534, recognition sequence for each Bgl I (2): 2040, 4683 2302, 2314, 2400, 2411 restriction enzyme. Bsu36 I (1): 4760 Bgl II (0): Bpm I (3): 2074, 3974, 4745 Cfr10 I (2): 2079, 3354 Enzyme (# sites): Locations Bpm I (1): 3521 Cla I (0): Aat II (1): 1241 Bpu1102 I (0): Dde I (8): 624, 1237, 1663, 2203, Acc I (1): 949 2369, 2778, 4240, 4761 Bsa I (1): 2092 Acc65 I (0): Bsa I (0): Dpn I (23): 660, 693, 915, 931, 983. Aci I (20): 924, 963, 1320, 1649, BsaA I (1): 1144 1482, 1518, 1535, 1793, 1839, 1857, 2198, 2303, 2315, 2393, 1816, 2460, 2604, 3100, 3121, BsaB I (0): 2401, 2412, 2487, 3579, 3683, 3128, 3227, 3380, 3467, 3696, BsaH I (5): 34, 1241, 1623, 3624, 4167, 4223, 4324, 4334, 4651, 4056, 4658, 4754 4307 BsaJ I (7): 934, 944, 2892, 4303, Dpn II (23): 660, 693, 915, 931, 983, 4856 Aci I (39): 225, 549, 959, 1065, 1104. 4442, 4579, 4869 1482, 1518, 1535, 1793, 1839, 1114, 1156, 1273, 1419, 1528, BseA I (0): 1857, 2198, 2303, 2315, 2393, 1605, 1770, 2007, 2098, 2469, Bsg I (2): 69, 523 2401, 2412, 2487, 3579, 3683, 2714, 2835, 2854, 2981, 3009, Bsg I (3): 11, 3534, 3734 4056, 4658, 4754 3171, 3188, 3214, 3268, 3419, BsiE I (6): 960, 1643, 1792, 2715, Dra I (5): 683, 792, 1584, 2276, 3435, 3444, 3486, 3558, 3622, 3139, 4657 2295 3642, 3645, 3873, 3957, 4113, BsiW I (0): Dra II (2): 289, 1183 4251, 4390, 4493, 4727 BsiY I (11): 264, 861, 1037, 2568, Dra III (0): 2847, 3013, 3031, 3244, 4090, *AfI* II (0): Drd I (2): 1081, 2944 Afl III (3): 496, 3052, 3668 4334, 4785 Dsa I (1): 4869 Bsl I (11): 264, 861, 1037, 2568, Age I (0): Dsa V (21): 764, 935, 944, 945, 1037, 1072, 1627, 1978, 2674, Aha II (5): 34, 1241, 1623, 3624, 2847, 3013, 3031, 3244, 4090, 4334, 4785 2892, 2905, 3026, 3287, 3392, Alu I (25): 54, 178, 482, 631, 809, Bsm I (0): 3707, 4096, 4247, 4304, 4443, 1033, 1052, 1810, 1873, 1973, *Bsm* I (0): 4580, 4707 2494, 2751, 2797, 2887, 3113, BsmA I (5): 2093, 3360, 3765, 3891, Eae I (5): 463, 960, 1771, 4342, 4545 Eag I (1): 960 3448, 3728, 4152, 4267, 4360, 4278 4424, 4519, 4628, 4739, 4919 BsmA I (2): 1036, 1323 Eam1105 I (1): 2159 Alw I (7): 914, 930, 1517, 1838, Bsp1286 I (6): 18, 1492, 1577, 2738, Ear I (0): Ear I (5): 338, 1366, 3170, 3287, 2302, 2400, 2486 3648, 3875 Alw I (4): 926, 1530, 2310, 2407 *Bsp*D I (0): 4639 Ecl136 II (0): *Alw*N I (1): 2638 *Bsp*E I (0): Apa I (1): 3875 BspH I (3): 1219, 1324, 2332 Eco47 III (0): ApaL I (4): 18, 1492, 2738, 3648 Eco57 I (1): 1477 *Bsp*M I (0): Apo I (3): 939, 3233, 3943 BspM I (1): 63 Eco57 I (1): 2525 EcoN I (1): 264 *Asc* I (0): **BspM** II (0): Ase I (4): 189, 1988, 4352, 4411 BspW I (26): 102, 866, 1920, 2040, EcoO109 I (2): 289, 1183 Asu I (13): 290, 752, 1184, 1800, 2428, 3000, 3114, 3179, 3345, EcoR I (1): 939 3435, 3531, 3633, 3720, 3857, 2022, 2039, 2118, 3530, 3875, EcoR II (11): 764, 2892, 2905, 3026, 3876, 4220, 4244, 4648 3864, 4065, 4072, 4074, 4216, 3392, 3707, 4247, 4304, 4443, Asu II (1): 654 4310, 4394, 4438, 4653, 4683, 27-4580-01 Ava I (2): 944, 954 4692, 4718

Bsr I (14): 1514, 1953, 1996, 2114,

Ava II (4): 752, 1800, 2022, 4220

4580, 4707	1242, 1562, 1935, 2351, 3330,	<i>Ppu</i> M I (0):
EcoR V (1): 4116	3403, 4561, 4830	Pst I (1): 1918
Esp I (0):	Mae III (19): 699, 970, 1047, 1142,	Pvu I (2): 1792, 4657
Esp3 I (1): 4277	1504, 1692, 1845, 1903, 2234,	Pvu II (3): 4266, 4359, 4627
Esp3 I (1): 1036	2517, 2633, 2696, 3327, 3850,	Rsa I (3): 830, 1682, 3814
Fnu4H I (30): 42, 959, 962, 1031,	4566, 4586, 4806, 4832, 4890	$Rsr \coprod (0)$ :
1128, 1419, 1648, 1743, 1770,	Mam I (0):	Sac I (0):
1920, 2109, 2437, 2643, 2646,	<i>Mbo</i> I (23): 660, 693, 915, 931, 983,	Sac II (0):
2711, 2854, 3009, 3127, 3130,	1482, 1518, 1535, 1793, 1839,	Sal I (1): 949
3148, 3435, 3558, 3622, 3642,	1857, 2198, 2303, 2315, 2393,	Sau I (1): 4760
3729, 4100, 4229, 4358, 4607,	2401, 2412, 2487, 3579, 3683,	Sau3A I (23): 660, 693, 915, 931,
4680	4056, 4658, 4754	983, 1482, 1518, 1535, 1793,
Fok I (7): 767, 1067, 1712, 1999,	Mbo II (4): 412, 2396, 3649, 4749	1839, 1857, 2198, 2303, 2315,
2180, 3701, 3710	<i>Mbo</i> II (13): 330, 342, 657, 1174,	2393, 2401, 2412, 2487, 3579,
Fok I (3): 692, 887, 4600	1370, 1479, 1557, 2312, 3174,	3683, 4056, 4658, 4754
Fsp I (2): 1939, 4677	3291, 3807, 4146, 4643	Sau96 I (13): 290, 752, 1184, 1800,
Hae II (6): 2808, 3178, 3283, 4064,	Mlu I (1): 3668	2022, 2039, 2118, 3530, 3875,
4307, 4698	<i>Mnl</i> I (7): 1791, 1997, 2875, 3158,	3876, 4220, 4244, 4648
Hae III (21): 291, 464, 859, 961,	4013, 4639, 4756	Sca I (2): 829, 1681
1185, 1772, 2039, 2119, 2577,	<i>Mnl</i> I (11): 903, 989, 1019, 1187,	Sce I (0):
3011, 3029, 3040, 3395, 3530,	2134, 2215, 2615, 2939, 3520,	Sce I (0):
3876, 4245, 4343, 4546, 4648,	4327, 4785	ScrF I (21): 764, 935, 944, 945, 1037,
4765, 4934	Msc I (1): 463	1072, 1627, 1978, 2674, 2892,
Hga I (3): 726, 1623, 4939	Mse I (23): 190, 286, 445, 450, 684,	2905, 3026, 3287, 3392, 3707,
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3615, 3660, 3889, 3895	2224, 2277, 2291, 2296, 2348,	4707
<i>Hgi</i> A I (5): 18, 1492, 1577, 2738,	3565, 3688, 3882, 4173, 4353,	Sdu I (6): 18, 1492, 1577, 2738,
3648	4412, 4596, 4905	3648, 3875
Hha I (34): 109, 138, 359, 993, 1096,	Msp I (21): 936, 945, 1038, 1072,	Sec I (7): 934, 944, 2892, 4303, 4442,
1126, 1271, 1603, 1940, 2033,	1627, 1869, 1979, 2046, 2080,	4579, 4869
2426, 2535, 2709, 2809, 2876,	2484, 2674, 2700, 2847, 3288,	SfaN I (5): 965, 1703, 3206, 3833,
3146, 3179, 3284, 3540, 3574,	3355, 3747, 3988, 4096, 4465,	4024
3663, 3864, 3897, 4065, 4072,	4715, 4733	SfaN I (10): 759, 1059, 1464, 1904,
4079, 4081, 4103, 4308, 4336,	Mun I (0):	2956, 3176, 3702, 4031, 4789,
4401, 4678, 4699, 4814	Nae I (0):	4802
Hinc II (4): 182, 949, 1620, 4172	Nar I (1): 4307	Sfc I (4): 1918, 2596, 2787, 4925
Hind II (4): 182, 949, 1620, 4172	Nci I (10): 935, 944, 945, 1037,	Sfi I (0):
Hind III (0):	1072, 1627, 1978, 2674, 3287,	SgrA I (0):
Hinf I (10): 952, 2165, 2682, 3078,	4096	Sin I (4): 752, 1800, 2022, 4220
3153, 3296, 4092, 4347, 4538,	Nco I (0):	Sma I (1): 944
4876	Nde I (0):	SnaB I (0):
Hinp I (34): 109, 138, 359, 993,	NgoM I (0):	Spe I (0):
1096, 1126, 1271, 1603, 1940,	Nhe I (0):	Sph I (0):
2033, 2426, 2535, 2709, 2809,	Nla III (22): 257, 497, 696, 716, 749,	Spl I (0):
2876, 3146, 3179, 3284, 3540,	856, 1028, 1133, 1220, 1325,	Spo I (0):
3574, 3663, 3864, 3897, 4065,	1718, 1754, 1832, 1842, 2333,	Srf I (0):
4072, 4079, 4081, 4103, 4308,	3053, 3277, 3804, 3983, 4004,	Sse8387 I (0):
4336, 4401, 4678, 4699, 4814	4156, 4528	Ssp I (2): 164, 1357
Hpa I (1): 4172	Nla IV (16): 752, 920, 930, 1275,	Stu I (0):
Hpa II (21): 936, 945, 1038, 1072,	1865, 2076, 2117, 2211, 2983,	Sty I (0):
1627, 1869, 1979, 2046, 2080,	3022, 3588, 3875, 4307, 4437,	Swa I (1): 682
2484, 2674, 2700, 2847, 3288,	4717, 4729	Taq I (11): 7, 308, 576, 655, 950,
3355, 3747, 3988, 4096, 4465,	Not I (1): 959	955, 1510, 2954, 3247, 3606, 3628
4715, 4733	Nru I (0):	Tfi I (4): 3078, 4347, 4538, 4876
Hph I (12): 369, 438, 690, 1002,	Nsi I (0):	Tth111 I (1): 1136
1011, 1460, 2082, 2309, 3311,	Nsp I (3): 496, 1027, 3052	Xba I (0):
3386, 4253, 4286 Hph I (2): 1428, 1670, 2844	NspB II (8): 1102, 1526, 2467, 2712,	Xcm I (3): 3517, 4033, 4051
Hph I (3): 1438, 1679, 3844	3696, 4266, 4359, 4627	Xho I (1): 954 Vho II (8): 914, 920, 1517, 1524
Kas I (1): 4307	Pac I (0):	Xho II (8): 914, 930, 1517, 1534,
Kpn I (0): Ksp632 I (0):	PaeR7 I (1): 954	2302, 2314, 2400, 2411 Yma I (1): 944
Ksp632 I (0): Ksp632 I (5): 338, 1366, 3170, 3287,	PfIM I (1): 3244 Ple I (2): 947, 2677	Xma I (1): 944 Xmn I (2): 647, 1560
4639		/MIII 1 (2). U41, 1500
Mae I (4): 270, 1971, 2306, 2559	Ple I (4): 2165, 3153, 3296, 4092 Pme I (0):	
Mae II (4): 270, 1971, 2300, 2339 Mae II (13): 1, 473, 800, 882, 1145,	Pml I (0):	27-4580-01
17100 11 (10). 1, 170, 000, 002, 1140,	1 1111 1 (0).	

LOCUS pGEX-4T-1 4969 bp BASE COUNT 1225 A 1202 C 1292 G 1250 T ORIGIN

1 ACGTTATCGA CTGCACGGTG CACCAATGCT TCTGGCGTCA GGCAGCCATC GGAAGCTGTG 61 GTATGGCTGT GCAGGTCGTA AATCACTGCA TAATTCGTGT CGCTCAAGGC GCACTCCCGT 121 TCTGGATAAT GTTTTTTGCG CCGACATCAT AACGGTTCTG GCAAATATTC TGAAATGAGC 181 TGTTGACAAT TAATCATCGG CTCGTATAAT GTGTGGAATT GTGAGCGGAT AACAATTTCA 241 CACAGGAAAC AGTATTCATG TCCCCTATAC TAGGTTATTG GAAAATTAAG GGCCTTGTGC 301 AACCCACTCG ACTTCTTTTG GAATATCTTG AAGAAAATA TGAAGAGCAT TTGTATGAGC 361 GCGATGAAGG TGATAAATGG CGAAACAAAA AGTTTGAATT GGGTTTGGAG TTTCCCAATC 421 TTCCTTATTA TATTGATGGT GATGTTAAAT TAACACAGTC TATGGCCATC ATACGTTATA 481 TAGCTGACAA GCACAACATG TTGGGTGGTT GTCCAAAAGA GCGTGCAGAG ATTTCAATGC 541 TTGAAGGAGC GGTTTTGGAT ATTAGATACG GTGTTTCGAG AATTGCATAT AGTAAAGACT 601 TTGAAACTCT CAAAGTTGAT TTTCTTAGCA AGCTACCTGA AATGCTGAAA ATGTTCGAAG 661 ATCGTTTATG TCATAAAACA TATTTAAATG GTGATCATGT AACCCATCCT GACTTCATGT 721 TGTATGACGC TCTTGATGTT GTTTTATACA TGGACCCAAT GTGCCTGGAT GCGTTCCCAA 781 AATTAGTTTG TTTTAAAAAA CGTATTGAAG CTATCCCACA AATTGATAAG TACTTGAAAT 841 CCAGCAAGTA TATAGCATGG CCTTTGCAGG GCTGGCAAGC CACGTTTGGT GGTGGCGACC 901 ATCCTCCAAA ATCGGATCTG GTTCCGCGTG GATCCCCGGA ATTCCCGGGT CGACTCGAGC 961 GGCCGCATCG TGACTGACTG ACGATCTGCC TCGCGCGTTT CGGTGATGAC GGTGAAAACC 1021 TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA 1081 GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCGCA GCCATGACCC 1141 AGTCACGTAG CGATAGCGGA GTGTATAATT CTTGAAGACG AAAGGGCCTC GTGATACGCC 1201 TATTTTTATA GGTTAATGTC ATGATAATAA TGGTTTCTTA GACGTCAGGT GGCACTTTTC 1261 GGGGAAATGT GCGCGGAACC CCTATTTGTT TATTTTTCTA AATACATTCA AATATGTATC 1321 CGCTCATGAG ACAATAACCC TGATAAATGC TTCAATAATA TTGAAAAAGG AAGAGTATGA 1381 GTATTCAACA TTTCCGTGTC GCCCTTATTC CCTTTTTTGC GGCATTTTGC CTTCCTGTTT 1441 TTGCTCACCC AGAAACGCTG GTGAAAGTAA AAGATGCTGA AGATCAGTTG GGTGCACGAG 1501 TGGGTTACAT CGAACTGGAT CTCAACAGCG GTAAGATCCT TGAGAGTTTT CGCCCCGAAG 1561 AACGTTTTCC AATGATGAGC ACTTTTAAAG TTCTGCTATG TGGCGCGGTA TTATCCCGTG 1621 TTGACGCCGG GCAAGAGCAA CTCGGTCGCC GCATACACTA TTCTCAGAAT GACTTGGTTG 1681 AGTACTCACC AGTCACAGAA AAGCATCTTA CGGATGGCAT GACAGTAAGA GAATTATGCA 1741 GTGCTGCCAT AACCATGAGT GATAACACTG CGGCCAACTT ACTTCTGACA ACGATCGGAG 1801 GACCGAAGGA GCTAACCGCT TTTTTGCACA ACATGGGGGA TCATGTAACT CGCCTTGATC 1861 GTTGGGAACC GGAGCTGAAT GAAGCCATAC CAAACGACGA GCGTGACACC ACGATGCCTG 1921 CAGCAATGGC AACAACGTTG CGCAAACTAT TAACTGGCGA ACTACTTACT CTAGCTTCCC 1981 GGCAACAATT AATAGACTGG ATGGAGGCGG ATAAAGTTGC AGGACCACTT CTGCGCTCGG 2041 CCCTTCCGGC TGGCTGGTTT ATTGCTGATA AATCTGGAGC CGGTGAGCGT GGGTCTCGCG 2101 GTATCATTGC AGCACTGGGG CCAGATGGTA AGCCCTCCCG TATCGTAGTT ATCTACACGA 2161 CGGGGAGTCA GGCAACTATG GATGAACGAA ATAGACAGAT CGCTGAGATA GGTGCCTCAC 2221 TGATTAAGCA TTGGTAACTG TCAGACCAAG TTTACTCATA TATACTTTAG ATTGATTTAA 2281 AACTTCATTT TTAATTTAAA AGGATCTAGG TGAAGATCCT TTTTGATAAT CTCATGACCA 2341 AAATCCCTTA ACGTGAGTTT TCGTTCCACT GAGCGTCAGA CCCCGTAGAA AAGATCAAAG 2401 GATCTTCTTG AGATCCTTTT TTTCTGCGCG TAATCTGCTG CTTGCAAACA AAAAAACCAC 2461 CGCTACCAGC GGTGGTTTGT TTGCCGGATC AAGAGCTACC AACTCTTTTT CCGAAGGTAA 2521 CTGGCTTCAG CAGAGCGCAG ATACCAAATA CTGTCCTTCT AGTGTAGCCG TAGTTAGGCC 2581 ACCACTTCAA GAACTCTGTA GCACCGCCTA CATACCTCGC TCTGCTAATC CTGTTACCAG 2641 TGGCTGCTGC CAGTGGCGAT AAGTCGTGTC TTACCGGGTT GGACTCAAGA CGATAGTTAC 2701 CGGATAAGGC GCAGCGGTCG GGCTGAACGG GGGGTTCGTG CACACAGCCC AGCTTGGAGC 2761 GAACGACCTA CACCGAACTG AGATACCTAC AGCGTGAGCT ATGAGAAAGC GCCACGCTTC 2821 CCGAAGGGAG AAAGGCGGAC AGGTATCCGG TAAGCGGCAG GGTCGGAACA GGAGAGCGCA 2881 CGAGGGAGCT TCCAGGGGGA AACGCCTGGT ATCTTTATAG TCCTGTCGGG TTTCGCCACC 2941 TCTGACTTGA GCGTCGATTT TTGTGATGCT CGTCAGGGGG GCGGAGCCTA TGGAAAAACG 3001 CCAGCAACGC GGCCTTTTTA CGGTTCCTGG CCTTTTGCTG GCCTTTTGCT CACATGTTCT 3061 TTCCTGCGTT ATCCCCTGAT TCTGTGGATA ACCGTATTAC CGCCTTTGAG TGAGCTGATA 3121 CCGCTCGCCG CAGCCGAACG ACCGAGCGCA GCGAGTCAGT GAGCGAGGAA GCGGAAGAGC 3181 GCCTGATGCG GTATTTTCTC CTTACGCATC TGTGCGGTAT TTCACACCGC ATAAATTCCG 3241 ACACCATCGA ATGGTGCAAA ACCTTTCGCG GTATGGCATG ATAGCGCCCG GAAGAGAGTC 3301 AATTCAGGGT GGTGAATGTG AAACCAGTAA CGTTATACGA TGTCGCAGAG TATGCCGGTG 3361 TCTCTTATCA GACCGTTTCC CGCGTGGTGA ACCAGGCCAG CCACGTTTCT GCGAAAACGC

3421	GGGAAAAAGT	GGAAGCGGCG	ATGGCGGAGC	TGAATTACAT	TCCCAACCGC	GTGGCACAAC
3481	AACTGGCGGG	CAAACAGTCG	TTGCTGATTG	GCGTTGCCAC	CTCCAGTCTG	GCCCTGCACG
3541	CGCCGTCGCA	AATTGTCGCG	GCGATTAAAT	CTCGCGCCGA	TCAACTGGGT	GCCAGCGTGG
3601	TGGTGTCGAT	GGTAGAACGA	AGCGGCGTCG	AAGCCTGTAA	AGCGGCGGTG	CACAATCTTC
3661	TCGCGCAACG	CGTCAGTGGG	CTGATCATTA	ACTATCCGCT	GGATGACCAG	GATGCCATTG
3721	CTGTGGAAGC	TGCCTGCACT	AATGTTCCGG	CGTTATTTCT	TGATGTCTCT	GACCAGACAC
3781	CCATCAACAG	TATTATTTTC	TCCCATGAAG	ACGGTACGCG	ACTGGGCGTG	GAGCATCTGG
3841	TCGCATTGGG	TCACCAGCAA	ATCGCGCTGT	TAGCGGGCCC	ATTAAGTTCT	GTCTCGGCGC
3901	GTCTGCGTCT	GGCTGGCTGG	CATAAATATC	TCACTCGCAA	TCAAATTCAG	CCGATAGCGG
3961	AACGGGAAGG	CGACTGGAGT	GCCATGTCCG	GTTTTCAACA	AACCATGCAA	ATGCTGAATG
4021	AGGGCATCGT	TCCCACTGCG	ATGCTGGTTG	CCAACGATCA	GATGGCGCTG	GGCGCAATGC
4081	GCGCCATTAC	CGAGTCCGGG	CTGCGCGTTG	GTGCGGATAT	CTCGGTAGTG	GGATACGACG
4141	ATACCGAAGA	CAGCTCATGT	TATATCCCGC	CGTTAACCAC	CATCAAACAG	GATTTTCGCC
4201	TGCTGGGGCA	AACCAGCGTG	GACCGCTTGC	TGCAACTCTC	TCAGGGCCAG	GCGGTGAAGG
4261	GCAATCAGCT	GTTGCCCGTC	TCACTGGTGA	AAAGAAAAAC	CACCCTGGCG	CCCAATACGC
4321	AAACCGCCTC	TCCCCGCGCG	TTGGCCGATT	CATTAATGCA	GCTGGCACGA	CAGGTTTCCC
4381	GACTGGAAAG	CGGGCAGTGA	GCGCAACGCA	ATTAATGTGA	GTTAGCTCAC	TCATTAGGCA
4441	CCCCAGGCTT	TACACTTTAT	GCTTCCGGCT	CGTATGTTGT	GTGGAATTGT	GAGCGGATAA
4501	CAATTTCACA	CAGGAAACAG	CTATGACCAT	GATTACGGAT	TCACTGGCCG	TCGTTTTACA
4561	ACGTCGTGAC	TGGGAAAACC	CTGGCGTTAC	CCAACTTAAT	CGCCTTGCAG	CACATCCCCC
4621	TTTCGCCAGC	TGGCGTAATA	GCGAAGAGGC	CCGCACCGAT	CGCCCTTCCC	AACAGTTGCG
4681	CAGCCTGAAT	GGCGAATGGC	GCTTTGCCTG	GTTTCCGGCA	CCAGAAGCGG	TGCCGGAAAG
4741	CTGGCTGGAG	TGCGATCTTC	CTGAGGCCGA	TACTGTCGTC	${\tt GTCCCCTCAA}$	ACTGGCAGAT
4801	GCACGGTTAC	GATGCGCCCA	TCTACACCAA	CGTAACCTAT	CCCATTACGG	TCAATCCGCC
4861	GTTTGTTCCC	ACGGAGAATC	CGACGGGTTG	TTACTCGCTC	${\tt ACATTTAATG}$	TTGATGAAAG
4921	CTGGCTACAG	GAAGGCCAGA	CGCGAATTAT	TTTTGATGGC	GTTGGAATT	