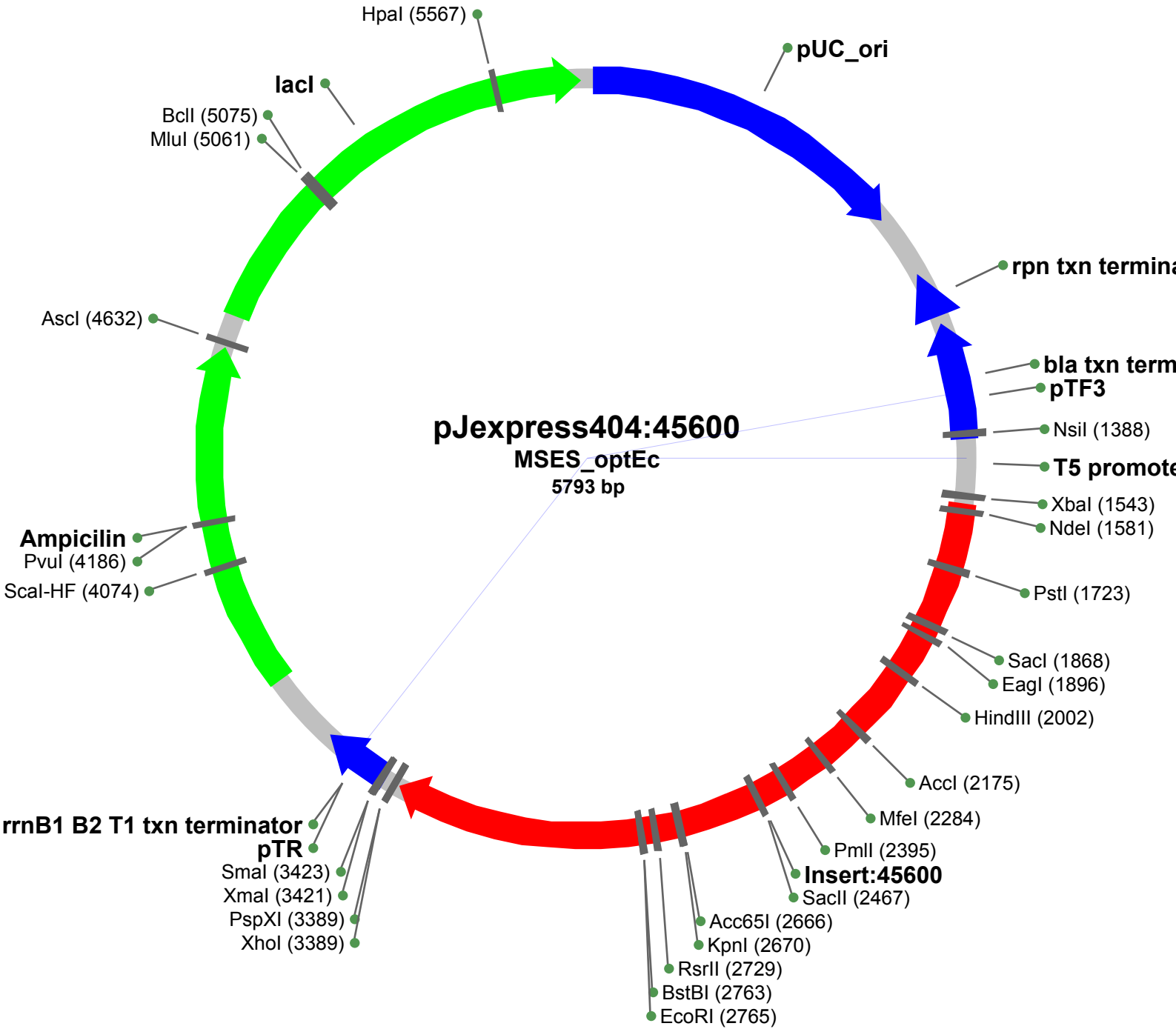


Plasmid Map

pJexpress404:45600 - MSES_optEc

Only single cutters are shown in the map.



Original Author

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Feature Map

Insert:45600 - Start:1569 End:3394
pUC_ori - Start:2 End:805
rpn txn terminator - Start:977 End:1090 (Complementary)
bla txn terminator - Start:1097 End:1397 (Complementary)
rrnB1 B2 T1 txn terminator - Start:3415 End:3589
pTF3 - Start:1281 End:1306
pTR - Start:3498 End:3514 (Complementary)
T5 promoter - Start:1455 End:1502
Ampicilin - Start:3771 End:4619
lacI - Start:4714 End:5784

Restriction Map

Name	Sequence	Cut Positions
Acc65I	GGTACC	2666
Accl	GTMKAC	2175
AclI	AACGTT	3953,4326,4723
AfeI	AGCGCT	1517,2493,4504
AlwNI	CAGNNNCTG	321,1855,2374,2779
Apal	GGGCCC	974,5272
ApaLI	GTGCAC	416,3883,5041
AscI	GGCGCGCC	4632
AvaI	CYCGRG	967,2545,3389,3421
BclI	TGATCA	5075
BglI	GCCNNNNNGGC	978,2169,3400,4437
BglII	AGATCT	2238,2709
BspEI	TCCGGA	2887,3109,4464
BspHI	TCATGA	2,1458,2439,3715
BsrDI	GCAATG	5474,5108(C)
BssHII	GCGCGC	32,4632,5472
BstBI	TTCGAA	2763
BstEII	GGTNACC	3365,5242
BstXI	CCANNNNNNTGG	3091,4863,4992,5115
BtsI	GCAGTG	4136,5794,4156(C),5426(C)
Clal	ATCGAT	2190,2940
EagI	CGGCCG	1896
EcoRI	GAATTC	2765

EcoRV	GATATC	1314,5511
HincII	GTYRAC	1332,2866,5567
HindIII	AAGCTT	2002
HpaI	GTTAAC	5567
KasI	GGCGCC	1091,5700
KpnI	GGTACC	2670
MfeI	CAATTG	2284
MluI	ACGCGT	5061
NarI	GGCGCC	1092,5701
NdeI	CATATG	1581
NruI	TCGCGA	2141,2742,3630
NsiI	ATGCAT	1388
PciI	ACATGT	730,1326
PmlI	CACGTG	2395
PpuMI	RGGWCCY	1688,2359
PspOMI	GGGCC	970,5268
PspXI	VCTCGAGB	3389
PstI	CTGCAG	1723
PvuI	CGATCG	4186
PvuII	CAGCTG	1724,2698,5661,5754
RsrII	CGGWCCG	2729
SacI	GAGCTC	1868
SacII	CCGCGG	2467
Scal-HF	AGTACT	4074
SmaI	CCCGGG	3423
SspI	AATATT	1083,1244,3750
XbaI	TCTAGA	1543
XhoI	CTCGAG	3389
XmaI	CCCGGG	3421
XmnI	GAANNNTTC	2646,3955

No Cuts: AgeI, AsiSI, AvrII, BamHI, BbsI, BlnI, BsaI, BsiWI, BsmBI, BsrGI, FseI, MscI, NcoI, NheI, NotI, PacI, pET-ccdB_Bam_restore, PmeI, Sall, Sall-HF, SanDI, SapI, SapI-Rev, SbfI, SfiI, SnaBI, SpeI, SphI, SwaI

Sequence

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1 CTCATGACCA AAATCCCTTA ACGTGAGTTA CGCGCGCGTC GTTCCACTGA GCGTCAGACC CCGTAGAAAA
71 GATCAAAGGA TCTTCTTGAG ATCCTTTTTT TCTGCGCGTA ATCTGCTGCT TGCAAACAAA AAAACCACCG
141 CTACCAAGCG TGGTTTGTTT GCCGACTCAA GAGTACCCAA CTCTTTTTTC GAAGGTAACT GCGTTCAGCA
211 GAGCGCAGAT ACCAAATACT GTTCTTCTAG TGTAGCCGTA GTTAGCCAC CACTTCAAGA ACTCTGTAGC
281 ACCGCCTACA TACCTCGCTC TGCTAATCCT GTTACCAGTG GCTGCTGCCA GTGGCGATAA GTCGTGTCTT
351 ACCGGGTTGG ACTCAAGACG ATAGTTACCG GATAAGGCGC AGCGGTCGGG CTGAACGGGG GGTTCGTGCA
421 CACAGCCAG CTTGGAGCGA ACGACCTACA CCGAACTGAG ATACCTACAG CGTGAGCTAT GAGAAAGCGC
491 CACGCTTCCC GAAGGGAGAA AGGCGGACAG GTATCCGGTA AGCGGCAGGG TCGGAACAGG AGAGCGCAGC
561 AGGGAGCTTC CAGGGGGAAA CGCCTGGTAT GTTTATAGTC CTGTCGGGTT TCGCCACCTC TGACTTGAGC
631 GTCGATTTTT GTGATGCTCG TCAGGGGGGC CTTTATAGTC GAAAAACGCC AGCAACGCGG CCTTTTTTACG
701 GTTCTGGGCC TTTTGCTGGC CTTTGTCTCA CATGTTCTTT CCTGCGTTAT CCCCTGATTC TGTGGATAAC
771 CGTATTACCG CCTTTGAGTG AGCTGATACC GCTCGCCGCA GCCGAACGAC CGAGCGCAGC GAGTCAGTGA
841 GCGAGGAAGC GGAAGGCGAG AGTAGGGAAC TGCCAGGCAT CAAACTAAGC AGAAGGCCCC TGACGGATGG
911 CCTTTTTGCG TTTCTACAAA CTCTTCTGTG GTTGTAAAAA GACGGCCAGT CTTAAGCTCG GGCCCCCTGG
981 GCGGTTCTGA TAACGAGTAA TCGTTAATCG CCAAATAACG TAAAAACCCG CTTCGGCGGG TTTTTTTATG
1051 GGGGGAGTTT AGGGAAAGAG CATTGTCTAG AATATTTAAG GGCGCCTGTC ACTTTGCTTG ATATATGAGA
1121 ATTATTTAAC CTTATAAATG AGAAAAAAG AACGCACCTT AAATAAGATA CGTTGCTTTT TCGATTGATG
1191 AACACCTATA ATTAACCTAT TCATCTATTA TTTATGATTT TTTGTATATA CAATATTTCT AGTTTGTATA
1261 AGAGAATTAA GAAAATAAAT CTCGAAAATA ATAAAGGGAA AATCAGTTTT TGATATCAAA ATTATACATG
1331 TCAACGATA TACAAAATAT AATACAAACT ATAAGATGTT ATCAGTATTT ATTTATGCAT TAGAATAAAT
1401 TTTGTGTGCG CCTTAATGTG GAGCGGATAA CAATTACGAG CTTTCATGCAC GTGAAATCA TGAAAAATTT
1471 ATTTGCTTTG TGAGCGGATA ACAATTATAA TATGTGGAGT TGTGAGCGCT CACAATTCCA CAACGGTTTT
1541 CCTCTAGAAA TAATTTTGT TAACTTTTAG GAGGTA AAAA ATATGAGCGA GTCCCCAGTC ACCATCAGCA
1611 GAGCAGGCAA CGCAGGTGAA CTGGTTAGCC CGTTGCTGCT GCCGCCGACG CGCCGTCGTC GTCGCCGTCA
1681 CATTACAGGGT CCTGGTCCGG TGCTGAACCT GCCGCTGCT GCAGCTGCTC CGCCGGTTGC TCGTGCGCCA
1751 GAGGACGCGG GTGGCGGTT CCGTTCGAG GATTATAGCT CCTCGCCGCA TAGCGCAGCA GCGGCAGCTC
1821 GTCGCTGCGC GTACAGAGAA AAGCAGGCTC AGTCGTGCA ACCGAGCTCT AGCCGCTGTT CTAGCCACTA
1891 CCCAGCGGCC GTTCAGAGCC AGGCAGCCGC AGAAGCTGGC GCGAGCGCGA CGGCCAAAAG CCGCGCAATT
1961 AGCATTCTGC AAAAGAAACC GCGTACCAA CAACTGTTGC CAAGCTTGAG CAGCTTCTTT TTCAGCCACC
2031 GTCTGCCGGA TATGACCGCG ATTATCAAAG AGATCGTGT CCGTAACAAG CGCCGTTATC AAGAAGATGG
2101 CTTTGACCTG GACCTGACCT ACATCTACCC GAACATTATC GCGATGGGTT TTCCAGCCGA GCGCCTGGAG
2171 GCGCTACTAC GTAATAACAT CGATGATGTG GTTCGTTTTT TGGACAGCAA ACATAAGAAG CATTACAAGA
2241 TCTATAACTCT GTGCGCCGAG CGTCATTATG ACACCGGAA ATTCAATTGC CGTGTGCGC AGTACCCTGT
2311 CGAGGACCAC AATCCGCCGC AACTGGAACT GATTA AACCG TTCTGCGAGG ACCTGGATCA GTGGCTGTCC
2381 GAGGACGACA ACCACGTGGC CGCGATTAC TGTAAGGCCG GCAAAGGTCG TACCGGCTC ATGATCTGCG
2451 CGTACCTGCT GCACCGCGGT AAGTTTCTGA AGGCGCAAGA AGCGCTGGAC TTTTACGGCG AGGTGCGTAC
2521 CCGCGACAAA AAGGGTGTCA CCATCCCAG CCAACGCCGC TATGTTTACT ACTACAGCTA TTTGCTGAAA
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2661 GCGGCGGTAC CTGTAATCCG CAGTTCGTCG TTTGTCAGCT GAAAGGTGAAG ATCTACAGCT CTAATAGCCG
2731 TCCGACCCGT CGCGAAGATA AGTTTATGTA TTTGCAATTC CCGCAGCCGC TGCCGTTTTG TGGTGACATC
2801 AAGGTGGAGT TCTTCCATAA ACAAACAAG ATGTTGAAGA AAGATAAGAT GTTCCATTTT TGGGTCAACA
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2941 CGATAGCATT TGCAGCATCG AACGTGCGGA TAATGACAAA GAATATCTGG TCTTGACCC TACGAAAAAC
3011 GACCTGGACA AAGCGAACA AGATAAAGCG AATCGCTATT TCAGCCGAA TTTCAAAGTT AAGCTGTACT
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3151 CGACAATGAG CCGGACCACT ATCGTTACAG CGACACGACC GACAGCGATC CTGAAAATGA ACCGTTTGAC
3221 GAAGATCAAC ATACGCAGAT TACCAAGGTG AAAGGCAACA GCGCGGATAT TCAGCATTTCT GGTGGCCGTA
3291 GCAGCTTGGA AGGCCCTCGC TTCGAGGGTA AGCCGATTCC GAATCCGCTG CTGGGTCTGG ATAGCACGCG
3361 CACGGGTCAC CACCACCATC ACCACTAACT CGAGCCCCAA GGGCGACACC CCATAATTAG CCCGGGCGAA
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3571 GCTACTGCCG CCAGGCAAAC AAGGGGTGTT ATGAGCCATA TTCAGGTATA AATGGGCTCG CGATAATGTT
3641 CAGAATTGGT TAATTGGTTG TAACACTGAC CCCTATTTGT TTATTTTTCT AAATACATTC AAATATGTAT
3711 CCGCTCATGA GACAATAACC CTGATAAATG CTTCATAAAT ATTGAAAAAG GAAGAATATG AGTATTCAAC
3781 ATTTCCGTGT CGCCCTTATT CCCTTTTTTT CGGCATTTTG CCTTCTGTT TTTGCTCACC CAGAAACGCT
3851 GGTGAAGAFTA AAAGATGCTG AAGATCAGTT GGGTGCACGA GTGGGTTACA TCGAAGTGA TCTCAACAGC
3921 GGTAAAGATC TTGAGAGTTT TCGCCCCGAA GAAGCTTTTC CAATGATGAG CACTTTTTAAA GTTCTGCTAT
3991 GTGGCGCGGT ATTATCCCGT ATTGACGCCG GGCAAGAGCA ACTCGGTCGC CGCATACACT ATTCTCAGAA
4061 TGACTTGGTT GAGTACTCAC CAGTCACAGA AAAGCATCTT ACGGATGGCA TGACAGTAAG AGAATATATG
4131 AGTGCTGCCA TAACCATGAG TGATAACACT GCGGCCAACT TACTTCTGAC AACGATCGGA GGACCGAAGG
4201 AGTAAACCCG TTTTTTGCAC AACATGGGGG ATCATGTAAC TCGCCTTGAT CGTTGGGAAC CGGAGCTGAA
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4341 TTAACCTGGC AACTACTTAC TCTAGTTTCC CCGCAACAAT TAATAGACTG GATGGAGGCG GATAAAGTTG
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4691 GTCAATTACG GGTGGTCAAT ATGAAACGAG TAAACGTTATA CGATGTCGCA GAGTATGCCG GTGTCCTTTA
4761 TCAGACCGTT TCCCGCTGG TGAACACGCG CAGCCAGCTT TCTGCGAAAA CGCGGAAAAA AGTGAAGCGC
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4971 CGATCAACTG GGTGCCAGCG TGGTGGTGTG GATGGTAGAA CGAAGCGGCG TCGAAGCCTG TAAAGCGGCG
5041 GTGCACAATC TTCTCGCGCA ACGCGTCAGT GGGCTGATCA TTAACATATC GCTGGATGAC CAGGATGCCA

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5111 TTGCTGTGGA AGCTGCCTGC ACTAATGTTT CCGCGTTATT TCTTGATGTC TCTGACCAGA CACCCATCAA
5181 CAGTATTATT TTCTCCCATG AGGACGGTAC GCGACTGGGC GTGGAGCATC TGGTCGCATT GGGTCACCAG
5251 CAAATCGCGC TGTTAGCGGG CCCATTAAGT TCTGTCTCGG CGCGTCTGCG TCTGGCTGGC TGGCATAAAT
5321 ATCTCACTCG CAATCAAATT CAGCCGATAG CGGAACGGGA AGGCGACTGG AGTGCCATGT CCGGTTTTCA
5391 ACAAACCATG CAAATGCTGA ATGAGGGCAT CGTTCCACT GCGATGCTGG TTGCCAACGA TCAGATGGCG
5461 CTGGGCGCAA TGCGCGCCAT TACCGAGTCC GGGCTGCGCG TTGGTGCGGA TATCTCGGTA GTGGGATACG
5531 ACGATAACCGA AGATAGCTCA TGTTATATCC CGCCGTTAAC CACCATCAAA CAGGATTTTT GCCTGCTGGG
5601 GCAAACCAGC GTGGACCGCT TGCTGCAACT CTCTCAGGGC CAGGCGGTGA AGGGCAATCA GCTGTTGCCA
5671 GTCTCACTGG TGAAAAGAAA AACCACCCTG GCGCCCAATA CGCAAACCGC CTCTCCCCGC GCGTTGGCCG
5741 ATTCATTAAT GCAGCTGGCA CGACAGGTTT CCCGACTGGA AAGCGGGCAG TGA

Only the synthesized DNA fragment (in red) has been sequence verified. We do not guarantee the vector sequence.