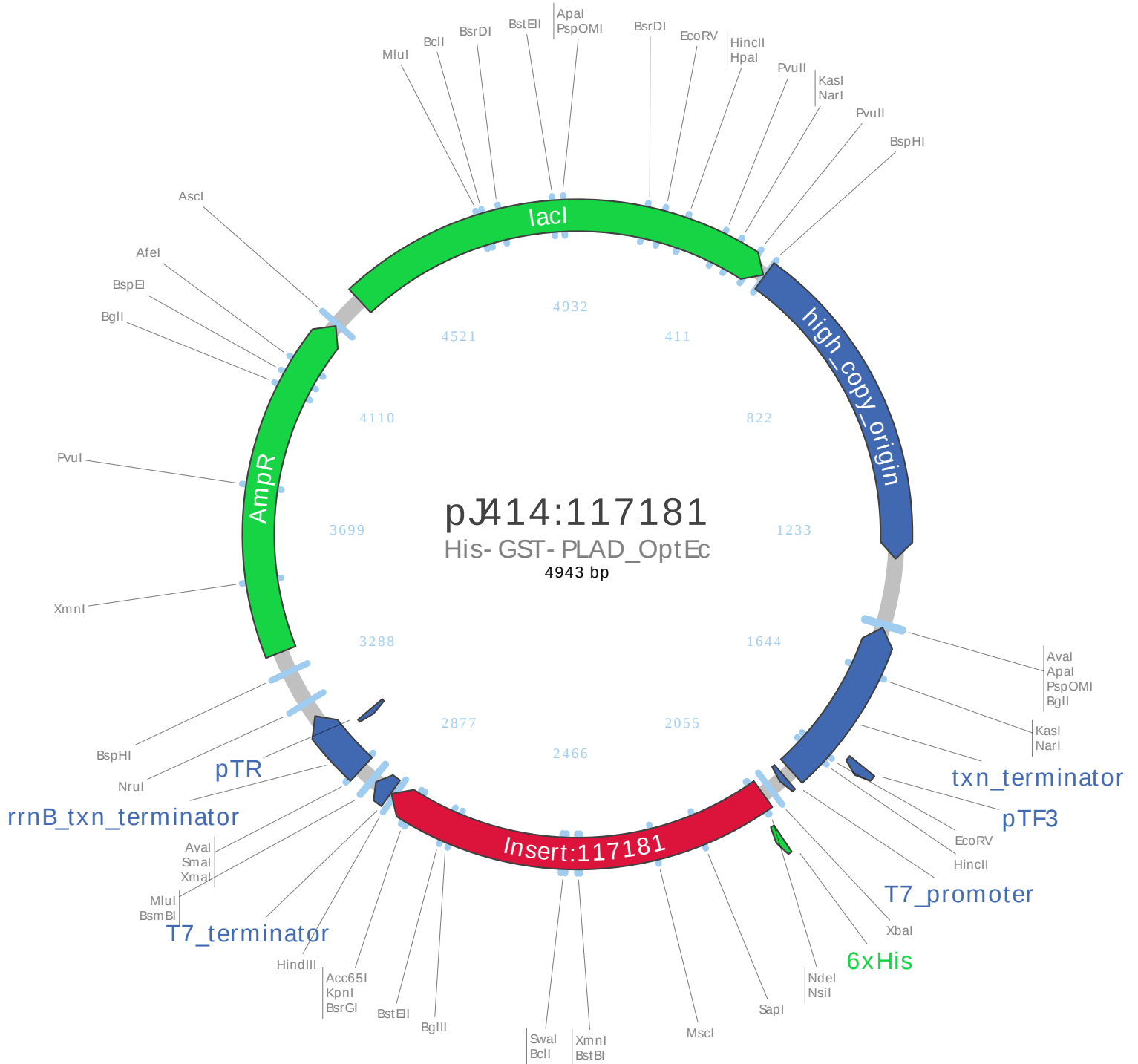


Plasmid Map

pJ414:117181

Only single cutters are shown in the map.



Original Author

DNA2.0, Inc.
1430 OBrien Drive, Suite E
Menlo Park, CA 94025-1438
1-877-DNA-TOGO (Toll free) 1-650-853-8351 (Fax).
info@dna20.com
www.dna20.com

Feature Map

Name	Start	End	
Insert: 117181	1983	2961	
high_copy_origin	493	1296	
pTF3	1773	1798	
txn_terminator	1893	1469	Reverse
T7_promoter	1915	1931	
6xHis	2004	2021	
T7_terminator	2963	3009	
rrnB_txn_terminator	3057	3231	
pTR	3156	3140	Reverse
AmpR	3410	4267	
lacI	4353	489	

Restriction Map

Name	Sequence	5' Cut Positions
Acc65I	GGTACC	2892
AclI	AACGTT	3595, 3968, 4365
AfeI	AGCGCT	4146
AlwNI	CAGNNNCTG	813, 2827, 2869
ApaI	GGGCCC	1466, 4914
ApaLI	GTGCAC	908, 3525, 4683
AscI	GGCGCGCC	4274
Asel	ATTAAT	445, 1914, 4022
AvaI	CYCGRG	1459, 3063
BclI	TGATCA	2510, 4717
BglI	GCCNNNNNGGC	1470, 4079
BglII	AGATCT	2781
BsmBI	CGTCTC	3009(C)
BspEI	TCCGGA	4106
BspHI	TCATGA	494, 3357
BsrBI	CCGCTC	1293, 1944(C), 2367(C), 3355
BsrDI	GCAATG	173, 4750(C)
BsrGI	TGTACA	2902
BssHII	GCGCGC	171, 524, 4274
BstBI	TTCGAA	2473
BstEII	GGTNACC	2802, 4884
BstXI	CCANNNNNTGG	4505, 4634, 4757
BtsI	GCAGTG	125(C), 493, 3778, 3798(C)
EcoRV	GATATC	210, 1806
HincII	GTYRAC	266, 1824

Name	Sequence	5' Cut Positions
HindIII	AAGCTT	2952
HpaI	GTTAAC	266
KasI	GGCGCC	399, 1583
KpnI	GGTACC	2896
MluI	ACGCGT	3018, 4703
MscI	TGGCCA	2283
NarI	GGCGCC	400, 1584
NdeI	CATATG	1999
NruI	TCGCGA	3272
NsiI	ATGCAT	2005
PciI	ACATGT	1222, 1818, 2314
PspOMI	GGGCCC	1462, 4910
PvuI	CGATCG	3828
PvuII	CAGCTG	360, 453
SapI	GCTCTT	2155(C)
SmaI	CCCGGG	3065
SspI	AATATT	1575, 1736, 3392
SwaI	ATTAAAT	2503
XbaI	TCTAGA	1961
XmaI	CCCGGG	3063
XmnI	GAANNNTTC	2469, 3597
AccI	GTMKAC	no cuts
AgeI	ACCGGT	no cuts
AsiSI	GCGATCGC	no cuts
AvrII	CCTAGG	no cuts
BamHI	GGATCC	no cuts
BbsI	GAAGAC	no cuts
BliI	GCTNAGC	no cuts
BsaI	GGTCTC	no cuts
BsiWI	CGTACG	no cuts
Clal	ATCGAT	no cuts
EagI	CGGCCG	no cuts
EcoRI	GAATTC	no cuts
FseI	GGCCGGCC	no cuts
MfeI	CAATTG	no cuts
NcoI	CCATGG	no cuts
NheI	GCTAGC	no cuts
NotI	GCGGCCGC	no cuts
PacI	TTAATTAA	no cuts
PmeI	GTTTAAAC	no cuts
PmlI	CACGTG	no cuts
PpuMI	RGGWCCY	no cuts
PshAI	GACNNNNGTC	no cuts
PspXI	VCTCGAGB	no cuts
PstI	CTGCAG	no cuts
RsrII	CGGWCCG	no cuts
SacI	GAGCTC	no cuts
SacII	CCGCGG	no cuts
Sall	GTCGAC	no cuts
SanDI	GGGWCCC	no cuts
SbfI	CCTGCAGG	no cuts
SfiI	GGCCNNNNNGGCC	no cuts
SnaBI	TACGTA	no cuts
SpeI	ACTAGT	no cuts
SphI	GCATGC	no cuts
XhoI	CTCGAG	no cuts

Sequence

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1 CTGGCTGGCT GGCATAAATA TCTCACTCGC AATCAAATTC AGCCGATAGC GGAACGGGAA
61 GCGCACTGGA GTGCCATGTC CGGTTTTCAA CAAACCATGC AAATGCTGAA TGAGGGCATC
121 GTTCCCACTG CGATGCTGGT TGCCAACGAT CAGATGGCGC TGGGCGCAAT GCGCGCCATT
181 ACCGAGTCCG GGCTGCGCGT TGGTGC GGAT ATCTCGGTAG TGGGATACGA CGATACCGAA
241 GATAGCTCAT GTTATATCCC GCCGTTAACC ACCATCAAAC AGGATTTTCG CCTGCTGGGG
301 CAAACCAGCG TGGACCGCTT GCTGCAACTC TCTCAGGGCC AGGCGGTGAA GGGCAATCAG
361 CTGTTGCCAG TCTCACTGGT GAAAAGAAAA ACCACCCTGG CGCCCAATAC GCAAACCGCC
421 TCTCCCCGCG CGTTGGCCGA TTCATTAATG CAGCTGGCAC GACAGGTTTC CCGACTGGAA
481 AGCGGGCAGT GACTCATGAC CAAAATCCCT TAACGTGAGT TACGCGCGCG TCGTTCCACT
541 GAGCGTCAGA CCCCGTAGAA AAGATCAAAG GATCTTCTTG AGATCCTTTT TTTCTGCGCG
601 TAATCTGCTG CTTGCAAACA AAAAAACCAC CGCTACCAGC GGTGGTTTGT TTGCCGGATC
661 AAGAGCTACC AACTCTTTT CCGAAGGTAA CTGGCTTCAG CAGAGCGCAG ATACCAAATA
721 CTGTTCTTCT AGTGTAGCCG TAGTTAGCCC ACCACTTCAA GAACTCTGTA GCACCGCCTA
781 CATACCTCGC TCTGCTAATC CTGTTACCAG TGGCTGCTGC CAGTGGCGAT AAGTCGTGTC
841 TTACCGGGTT GGA CTCAAGA CGATAGTTAC CGGATAAGGC GCAGCGGTCG GGCTGAACGG
901 GGGGTTCTG CACACAGCCC AGCTTGAGC GAACGACCTA CACCGAAGT AGATACCTAC
961 AGCGTGAGCT ATGAGAAAGC GCCACGCTTC CCGAAGGGAG AAAGGCGGAC AGGTATCCGG
1021 TAAGCGGCAG GGTCGGAACA GGAGAGCGCA CGAGGGAGCT TCCAGGGGGA AACGCCTGGT
1081 ATCTTTATAG TCCTGTCGGG TTTCGCCACC TCTGACTTGA GCGTCGATTT TTGTGATGCT
1141 CGTCAGGGGG GCGGAGCCTA TGGAAAAACG CCAGCAACGC GGCCTTTTTA CGGTTCTTGG
1201 CCTTTTGCTG GCCTTTTGCT CACATGTTCT TTCCTGCGTT ATCCCTGAT TCTGTGGATA
1261 ACCGTATTAC CGCCTTTGAG TGAGCTGATA CCGCTCGCCG CAGCCGAACG ACCGAGCGCA
1321 GCGAGTCAGT GAGCGAGGAA GCGGAAGGCG AGAGTAGGGA ACTGCCAGGC ATCAAATAA
1381 GCAGAAAGCC CCTGACGGAT GGCCTTTTTG CGTTTCTACA AACTCTTTCT GTGTTGTAA
1441 ACGACGGCCA GTCTTAAGCT CGGGCCCCCT GGGCGGTTCT GATAACGAGT AATCGTTAAT
1501 CCGCAAATAA CGTAAAAACC CGCTTCGGCG GGTTTTTTTA TGGGGGGAGT TTAGGGAAAG
1561 AGCATTTGTC AGAATATTTA AGGGCGCCTG TCACTTTGCT TGATATATGA GAATTATTTA
1621 ACCTTATAAA TGAGAAAAAA GCAACGCACT TTAAATAAGA TACGTTGCTT TTTCGATTGA
1681 TGAACACCTA TAATTAAGT ATTCACTAT TATTTATGAT TTTTGTATA TACAATATTT
1741 CTAGTTTGTT AAAGAGAATT AAGAAAATAA ATCTCGAAAA TAATAAAGGG AAAATCAGTT
1801 TTTGATATCA AAATTATACA TGTCACGAT AATACAAAAT ATAATACAAA CTATAAGATG
1861 TTATCAGTAT TTATTATCAT TTAGAATAAA TTTTGTGTCG CCCTTCCGCG AAATTAATAC
1921 GACTCACTAT AGGGGAATTG TGAGCGGATA ACAATTCCCC TCTAGAAATA ATTTTGTTTA
1981 AC TTTTAGGA GATAAAACAT ATGCATCATC ACCATCATCA CGGCGGCGGT AGCGGCGGCG
2041 GTTCAGGTGG CGGCTCATTA GTTCCGCGTG GTTCCATGTC CCCAATCCTC GGCTACTGGA
2101 AGATCAAAGG CCTCGTGACG CCCACTCGAC TTCTTTTGA ATATCTTGAA GAAAAATATG
2161 AAGAGCATTT GTATGAGCGC GATGAAGGTG ATAAATGGCG AAACAAAAAG TTTGAATTGG
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2281 TGGCCATCAT ACGTTATATA GCTGACAAGC ACAACATGTT GGGTGGTTGT CCAAAGAGC
2341 GTGCAGAGAT TTCAATGCTT GAAGGAGCGG TTTTGGATAT TAGATACGGT GTTTCGAGAA
2401 TTGCATATAG TAAAGACTTT GAAACTCTCA AAGTTGATTT TCTTAGCAAG CTACCTGAAA
2461 TGCTGAAAAT GTTCGAAGAT CGTTTATGTC ATAAACATA TTAAATGGT GATCATGTAA
2521 CCCATCCTGA CTTCATGTTG TATGACGCTC TTGATGTTGT TTTATACATG GACCCAATGT
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2581 GCCTGGATGC GTTCCCAAAA TTAGTTTGTT TTAAAAACG TATTGAAGCT ATCCCACAAA
 2641 TTGATAAGTA CTTGAAATCC AGCAAGTATA TAGCATGGCC TTTGCAGGGC TGGCAAGCCA
 2701 CGTTTGGTGG TGGCGACCAT CCTCCAAAAG GTGGTGGCAG CGGTGGCGGC AGCGGCGGTG
 2761 GTAGCGACGA CGATGACAAA AGATCTCTGG TGCCGCACCT GGGTGACCGT GAGAAGCGCG
 2821 ACAGCGTCTG CCCGCAAGGT AAGTACATCC ACCCGCAGAA TAACAGCATC TGCTGCACCA
 2881 AGTGCCACAA GGGTACCTAC CTGTACAACG ACTGTCCGGG TCCGGGTCAA GACACCGACT
 2941 GCCGCTAGTA AAAGCTTCCC CCTAGCATAA CCCCTTGGGG CCTCTAAACG GGTCTTGAGG
 3001 GGTTTTTTGC CCCTGAGACG CGTCAATCGA GTTCGTACCT AAGGGCGACA CCCCTAATT
 3061 AGCCCGGGCG AAAGGCCAG TCTTTCGACT GAGCCTTTCG TTTTATTGA TGCCTGGCAG
 3121 TTCCCTACTC TCGCATGGGG AGTCCCCACA CTACCATCGG CGCTACGGCG TTTCACTTCT
 3181 GAGTTCGGCA TGGGGTCAGG TGGGACCACC GCGCTACTGC CGCCAGGCAA ACAAGGGGTG
 3241 TTATGAGCCA TATTCAGGTA TAAATGGGCT CGCGATAATG TTCAGAATTG GTTAATTGGT
 3301 TGTAACACTG ACCCCTATTT GTTTATTTTT CTAAATACAT TCAAATATGT ATCCGCTCAT
 3361 GAGACAATAA CCCTGATAAA TGCTTCAATA ATATTGAAA AGGAAGAATA TGAGTATTCA
 3421 ACATTTCCGT GTCGCCCTTA TTCCCTTTTT TCGGCGATTT TGCCTTCCTG TTTTGTCTCA
 3481 CCCGAAACG CTGGTGAAAG TAAAAGATGC TGAAGATCAG TTGGGTGCAC GAGTGGGTTA
 3541 CATCGAACTG GATCTCAACA GCGGTAAGAT CCTTGAGAGT TTTCGCCCCG AAGAACGTTT
 3601 TCCAATGATG AGCACTTTTA AAGTTCTGCT ATGTGGCGCG GTATTATCCC GTATTGACGC
 3661 CGGGCAAGAG CAACTCGGTC GCCGCATACA CTATTCTCAG AATGACTTGG TTGAGTACTC
 3721 ACCAGTCACA GAAAAGCATC TTACGGATGG CATGACAGTA AGAGAATTAT GCAGTGCTGC
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 3841 GGAGCTAACC GCTTTTTTGC ACAACATGGG GGATCATGTA ACTCGCCTTG ATCGTTGGGA
 3901 ACCGGAGCTG AATGAAGCCA TACCAAACGA CGAGCGTGAC ACCACGATGC CTGTAGCGAT
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 4321 GCCCGGAAGA GAGTCAATTC AGGGTGGTGA ATATGAAACC AGTAACGTTA TACGATGTCG
 4381 CAGAGTATGC CGGTGTCTCT TATCAGACCG TTTCCCGCGT GGTGAACGAG GCCAGCCACG
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 4501 ACCGCGTGGC ACAACAACG GCGGGCAAAC AGTCGTTGCT GATTGGCGTT GCCACCTCCA
 4561 GTCTGGCCCT GCACGCGCCG TCGCAAATTG TCGCGGCGAT TAAATCTCGC GCCGATCAAC
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 4861 GCGTGGAGCA TCTGGTCGCA TTGGGTCACC AGCAAATCGC GCTGTAGCG GGCCATTAA
 4921 GTTCTGTCTC GCGCGTCTG CGT

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