

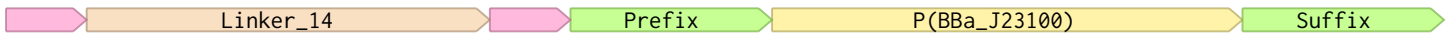
(from 1-1070 bp)

pJ2076.2_cR (4419 bp)

EcoRI

SacI

GAATTCATAGGATAGATTCTGGAACTTTACCGTCCGAGCTCCAGCCTGCGGTCCGGTtgacggctagctcagtccttaggtacagtgtctagcTCGCTGGGACGCCCC
CTTAAGTATCCTATCTAAGACCTTTGAAATGGCAGGCTCGAGGTCGGACGCCAGGCCaactgccgatcgagtcaggatccatgtcacgatcgAGCGACCCTCGGGC



AGAGCCGAATCGCACTTATTTACAGTAGTTCAGCCTGCGGTCCGGcCaTACATACTCTAAGATGTGTCTCGCTGGGACGCCCCGGGGACTACACTTACGAACTATTG
TCTCGGCTTAGCGTGAATAAATGTCATCAAGTCGGACGCCAGGCCggtATGTATGAGATTCTACACAGAGCGACCCTCGGGGCCCTGATGTGAATGCTTTGATAAC

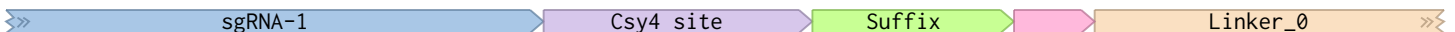


ATTGCTCAGCCTGCGGTCCGGTTCCTACTGCCGTATAGGCAGTCTCAAGCTAGACTCTAGTGGTTTcAGAGCTATGCTGGAAACAGCATAGCAAGTTgAAATAAGGCT
TAACGAGTCGGACGCCAGGCCAAAGTGACGGCATATCCGTCAGAGTTCGATCTGAGATACCAAAGTCTCGATACGACCTTTGTCGTATCGTTCAAcTTTATTCCGA



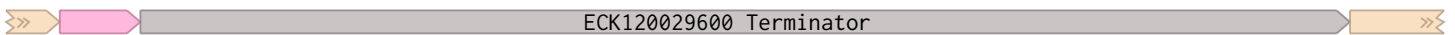
XhoI

AGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCCTTCACTGCCGTATAGGCAGTTCGCTGGGACGCCCCGCTCGAGCAATAAACAGTTGATAGGGCTTCTCC
TCAGGCAATAGTTGAACTTTTTACCGTGGCTCAGCCACGCAAGTGACGGCATATCCGTCAGCGACCCTCGGGCGAGCTCGTTATTTGCAACTATCCCAGAGAGG

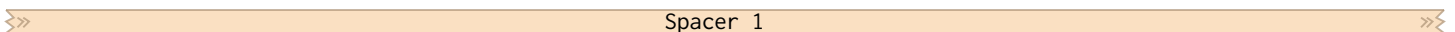


NcoI

GTTACCATGGTTCAGCCAAAAAAGTAAAGACCGCCGGTCTGTCCACTACCTGCAGTAAATGCGGTGGACAGGATCGCGGTTTTCTTTTCTTTCTCAATTCTTT
CAATGGTACCAAGTCGTTTTTTGAATTCTGGCGCCAGAACAGGTGATGGAACGTCATTACGCCACCTGTCTAGCCGCAAAAGAAAAGAGAAGAGTTAAGAAGA



GACCTGTAACGAATAATAGATAGTAAAGTAGTCTCGATTGAGTTTTCTGCGGAGTCCCACCCAGTTCTGTGATTTAGTAAGTTGGTAATTGATACTGTTGC
CTGGACATTGCTTATTATCTATCATTTTCATCAGAGGCTAACTCAAAGAGACGGCTCAGGGTGGTCAAGACACTAAAGTATTCAACCATTAACCTATGTGACAACG



HindIII

GAGAACTGCTGCCTGGTAGTAGATAGTTGTTATTGAGTAAGAAGGTAAGTGAACGAAATCCCTGAAACTGAGACTGTAGAAAATAAGCTTCAGCCTGCGGTCCGG
CTCTTGACGACGGACCATCATCTATCCAACAATAACTATTCTCCATTTCACTTGCTTTAGGGACTTTGACTCTGACATCTTTTATTGCAAGTCGGACGCCAGGCC



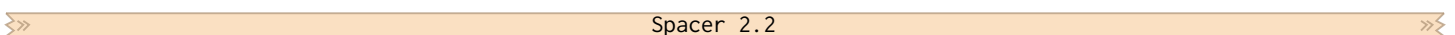
TTGACAGCTAGCTCAGTCTAGGTAAGTACTGTGCTAGCTCGCTGGGACGCCGAGATAGCCGTTACACAGGTGACACTTATTTAGCCTGCGGTCCGGcCaCACTAGAGT
AACTGTGATCGAGTCAGGATCCATGACACGATCGAGCGACCCTGCGGGCTCTATCGGCAATGTGTCCACTGTGAATAAAGTCGGACGCCAGGCCggtGTGATCTCA



CTAGCTTGAGATCGCTGGGACGCCGTGAACAGTTGCTCTGATTGAAACCACGATTACGCTGCGGTCCGGTGAAGAGAAATCCACGAAGGAAAAGGTGAAAGCAG
GATCGAACTTAGCGACCCTGCGGGCACTTGTAACGAGACTAACTTTGGTGTAAAGTCGGACGCCAGGCCACATTCTTTAGGTGCTTCTTTTCCACTTTCGTC



AACAGATAATCAGTAATAGTAGCAACTCAACCACAGGACTTCCCTCACTCCGAACGAATCACAATACGCTCCAATCTTCAACTACACGATAAACTGGTAATCCC
TTGTCTATTAGTCATTATCATCGTTGAGTTGGTGTCTGTGAAGGGAGTGAGGCTTGCTTAGTGTATGCGAGGTTAGAAGTTGATGTGCTATTTTGACCATTAGGG

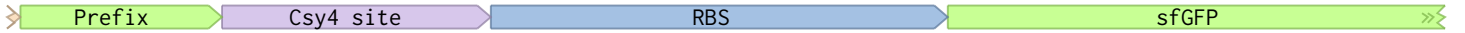


BamHI

AACAACCTGACTCACACTCTACTTTCTCAACGAGGAACTTCTTATTCTGATACAATCTCGCTGGGACGCCCGGGATCCAAGAGATTTCTACACGATTGAGCACTGTC
TTGTTGGACTGAGTGTGAGATGAAAGAGTTGCTCCTTGAAGAATAAGACTATGTTAGAGCGACCCCTGCGGGCCCTAGGTTCTCTAAAGATGTGCTAACTCGTGACAG



TCAGCCTGCGGTCCGGTTCCTACTGCCGTATAGGCAGTAATTTGTTTAACTTTAAGAAGGAGATATACATATGCGTAAAGGCGAAGAAGTGTTCACCGGTGTGGTTC
AGTCGGACGCCAGGCCAAGTACGGCATATCCGTCATTAACAAATTTGAAATTTCTCCTCTATATGTATACGCATTTCCGCTTCTTGACAAATGGCCACACCAAG



CGATTCTGGTGGAACTGGACGGCGATGTTAATGGTCATAAATTCAGTGTTCGCGGCGAAGGTGAAGGCGATGCGACGAACGGCAAAGTACCCCTGAAATTTATCTGC
GCTAAGACCACCTTGACCTGCCGCTACAATTACCAGTATTTAAGTCAACGCGCGCTTCCACTTCCGCTACGCTGCTTCCGTTTGACTGGGACTTTAAATAGACG



ACCACGGTAAACTGCCGTCCCGTGGCCGACGCTGGTACCACGCTGACCTATGGCGTTCAATGTTTTGCGGTTACCCGGATCATGAAACAGCAGCACTTTTT
TGGTGCCATTTGACGGCCAGGCACCGCTGCGACCACTGGTGCAGTACCAGTACAAAACGCGCAATGGGCCTAGTGTACTTTGTCGTGCTGAAAAA



CAAATCGGCCATGCCGAAGGCTATGTGCAGGAACGTACGATTAGCTTTAAAGACGATGGTACGTATAAAACCCGCGGGAAGTAAATTCGAAGGCGATACCCTGG
GTTAGCCGTTACGGCCTTCCGATACAGTCCTTGCATGCTAATCGAAATTTCTGCTACCATGCATATTTGGGCGCGCCTTCACTTTAAGCTTCCGCTATGGAC



TAAACCGTATCGAACTGAAAGGTATCGATTTCAAAGAAGACGGCAATATTCTGGGTCATAAACTGGAATATAACTTCAATTTCCACAACGTGTACATCACCGGGAT
AATTGGCATAGCTTGACTTTCCATAGCTAAAGTTTCTTCTGCCGTTATAAGACCCAGTATTTGACCTTATATTGAAGTTAAGGGTGTGCACATGTAGTGGCCCTA



AAACAGAAAAACGGCATTAAAGCCAATTTCAAATCCGCCATAATGTGAAGATGGTAGCGTTCAGCTGGCCGACCACTATCAGCAAAACACGCCGATTGGTATGG
TTTGTCTTTTCCGTAATTTCCGTTAAAGTTTTAGCGGTATTACACCTTACCATCGCAAGTCGACCGGCTGGTATAGTCGTTTTGTGCGGCTAACCCTACC



CCCGTCTGCTGCCGACAATCACTACCTGAGTACCCAGTCCGCTGTGCAAAAGATCCGAACGAAAAACGTGACCACATGGTCTGCTGGAATTTGTGACGGCTG
GGCCAGGACGACGGCCTGTTAGTGATGGACTCATGGTACGGCAGCAGACTTTTCTAGCTTGTCTTTTGCAGTGGTGTACCAGGACGACCTTAAACTGCGGAC



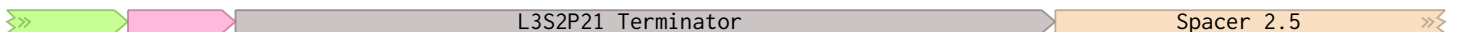
CGGTATCACCCACGGCATGGACGAACTGTATAAAATGTCCCGCGTAATACTGACGCCATCACAATCCACAGCATCCTGGATTGGATTGAAGACTAATAATCGCTG
GCCATAGTGGTGCCGTACCTGCTTGACATATTTACAGGGCGGCATTATGACTGCGGTAGTGTAGGTGTCGTAGGACCTAACCTAACTTCTGATTATTAGCGAC



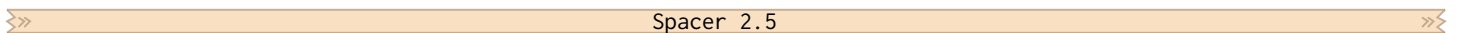
SbfI

KpnI

GGACGCCCGCCTGCAGGCTCGGTACCAAATTCAGAAAAGAGGCCCTCCGAAAGGGGGCCTTTTTTCGTTTTGGTCTAATAGATAAAGGATAGGTCTGGTAGTGT
CCTGCGGGCGGACGTCGAGCCATGGTTAAGGTCTTTTCCGGAGGGCTTTCCCGGAAAAAGCAAAACCAGGATTATCTATTTCTATCCAGACCATCACA



TGTTCTGTCGAGGTAATCAATAACTCAGCAGTTCCGTAGACTTTTTCAGTGGGACAGGGTAGCGATAACAGATAGATTGTAATAAGACACAGTAGGTGCTCG
ACAAGCAAGAGCGTCCATTTAGTTATTATGAGTCGTCAAGGCATCTGAAAAGTACCCTGTCCCATCGCTATTGTCTATCTAACATTATTCTGTGTCATCCACGAGC



SalI

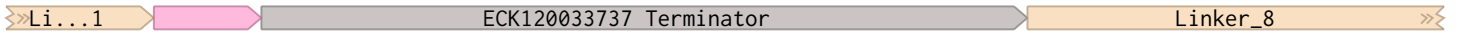
AatII

TAGTTGCGTGAAGAGAACCCTCAGGAAATCCAGTCAGAAGTATTGGTAATCGTTGAAAACCTCAGTCGACGCACTTACTGAAGACGTCCTATTACACTCGTCGTTGG
ATCAACGCACTTCTCTTGGCGAGTCCTTTAGGTCAGTCTTCATAACCATAGCAACTTTTGGTACAGCTGCGTGAATGACTTCTGCAGGATAATGTGAGCAGCAAC



NotI

AAACTGAAGATGCGGCCGggaaacacagAAAAAGCCCGCACCTGACAGTGC GGCTTTTTTTTTcgaccaaggTAGCGAACGACGAGTCACTGTTGAGGATAAA
TTTGACTTCTACGCCGGCGcctttgtgtcTTTTTCGGGCGTGGACTGTCACGCCGAAAAAAAAGctggttccATCGTTCGCTGCTCAGTGACAACCTCTATTT

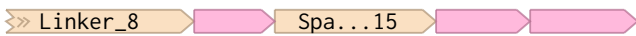


KasI

BbvCI

AscI

TACTTTCTACTAGGCGCCTGTTACACAGGTCCTCAGCGGCGGCCTTTGTCCGGTGAACGCTCTCTGAGTAGGACAAATCCGCCGGGAGCGGATTTGAACGTTGT
ATGAAAGAGATGATCCGCCGACAATGTGTCCAGGAGTCGCCGCGGAAACAGCCACTTGCAGAGGACTCATCTGTTTAGGCCGCCCTCGCTAAACTTGAACA



GAAGCAACGCCCGGAGGGTGGCGGGCAGGACGCCCATAAACTGCCAGGCATCAAATAAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCAGATCT
CTTCGTTGCCGGCCTCCCACCGCCCGTCTGCGGGCGGTATTTGACGGTCCGTAGTTGATTGCTCTTCGGTAGGACTGCCTACCGAAAAACGAAAGTCTAGA

ACCGGTaaaccagcaatagacataagcggctat ttaacgacctgacctgaaccgacgacaagctgacgaccgggtctccgcaagtggcacttttcgggaaatgtg
TGGCCAtttggctgcttatctgtattcgcgataaatgtctgggacgggactttggctgctgttcgactgctggcccagagggttcaccgtgaaaagcccccttacac

cgcggaaccctat tttgtttat ttttctaatacat tcaaatatgtatccgctcatgaat taattcttagaaaaactcatcgagcatcaaatgaaactgcaat tttat
gcgcttggggataaacaataaaaagatttatgtaagttatacatagggcagtagt taattaagaatctttttgagtagctcgtagttactttgacgttaaata



tcatatcaggattatcaataccatattttgaaaaagccgtttctgtaatgaaggagaaaactcaccgaggcagttccataggatggcaagatcctggatcggtct
agtatagtcctaagtagttatggataaaaaactttttcgcaagacattacttctcttttgagtggtcctcaaggtatcctaccgttctaggaccatagccaga



gcatccgactcgccaacatcaatacaacctat ttaattcccctcgtaaaaaaaggttatcaagtgagaaatccatgagtgacgactgaatccggtgagaa
cgctaaggctgagcaggttgtagttatgttgataaataaaggggagcagttttatccaatagttcactcttttagtggtactcactgctgacttaggccactctt



tggcaaaagtttatgcattttccagacttggtcaacagccagccattacgctcgtcatcaaaaactcgcgcatcaacaaacggttattcattcgtgattggc
accgttttcaaatagtaaaagaggtctgaacaagttgtccggctcgtaatgcgagcagtagtttttagtgagcgtagttggtttggcaataagtaagcactaacgc



cctgagcgagacgaaatcgcggtcgctgttaaaggacaattacaacaggaatcgaatgcaaccggcgaggaaactgcccagcgcacacaatattttcacct
ggactcgctcgtttatgcccagcagacaat tttcctgttaatgtttgtccttagcttacgttggccgctccttgtgacggtcggttagttgtataaaagtggaa



gaatcaggatattcttctaataacctggaatgctgtttcccgggatcgagtggtgagtaacctgcatcatcaggagtacggataaaatgcttgatggtcggaa
cttagtcctataagaagattatggaccttacgacaaaagggccccctagcgtcaccactcattggtacgtagtagtctcatgcctattttacgaactaccagccttc



aggcataaatccgtcagccagtttagtctgacctctcatctgtaacatcattggcaacgtacctttgccatgtttcagaaacaactctggcgcacatcgggcttcc
tccgtat ttaaggcagtcgggtcaaatcagactggtagagtagacattttagtaaccgttgcgatgaaaacggtacaaaagctttgttgagaccgctgagcccgaag



catacaatcgatagattgtcgcacctgattgcccacattatcgcgagccatttataccatataaatcagcatccatggttgaatttaacgcgccctagagcaagtagttagctatctaacacgctggactaacgggctgtaatagcgtcgggtaaatatgggtatatttagtctaggtacaacctaaattagcggcgatctcgtt

«« KanR »»

gacgtttcccggtgaatatggctcatactcttcttttcaatattatgaagcatttatcagggttattgtctcatgagcggatacatattgaaatgtagaa
ctgcaaagggcaacttataccgagtatgagaaggaaaagtataataacttcgtaaagtcccaataacagagtactcgcctatgtataaacttacataaactt

«« KanR »»

aaataacaaataggcatgctagcgcagaaacgtcctagaagatgccaggaggatacttagcagagagacaataaggccggagcgaagccgttttccataggtcc
tttatttgtttatccgtacgatcgcgtctttgcaggatcttctacggtcctcctatgaatcgtctctctgttattccggcctcgcctcggcaaaaaggtagcggag

ColA ori »»

gccccctgacgaacatcacgaaatctgacgctcaaatcagtggtggcgaaccgcagaggactataagataaccaggcgtttccccctgatggctcctcttgcgc
cggggggactgctttagtgctttagactgaggttttagtcaccaccgctttgggctgtcctgatatttctatggtccgcaaagggggactaccgagggagaacgcg

»» ColA ori »»

tctctgtttccgctcctgcccgtccggttgtggtggaggctttacccaaatcaccacgtcccgttccgtgtagacagttcgtcctaagctgggctgtgtgcaaga
agaggacaagggcaggacgccgaggcacaacaccacctccgaaatgggttttagtggtgcagggcaaggcacatctgtcaagcgaggttcgaccgacacacgttct

»» ColA ori »»

acccccgttcagcccactgctgccccttatccgtaactatcatcttgagtccaaccggaaagacacgacaaaacgccactggcagcagccattggttaactgag
tggggggcaagtcgggctgacgacgcggaataggccattgatagtagaactcaggttggcctttctgtgctgttttgcggtgaccgtcgtcgtaaccattgactc

»» ColA ori »»

aattagtggtatttagatctgagagtctgaagtggcctaacagaggctacactgaaaggacagtatttggatctgctccactaaagccagttaccaggtt
ttaatcacctaatctatagctctcagaacttaccaccggattgtctccgatgtgactttcctgtcataaaccatagacgcgaggtgatttcggtcaatggtccaa

»» ColA ori »»

aagcagttccccactgacttaaccttcgatcaaaccgctccccaggcggtttttcgtttacagagcaggagattacgacgatcgtaaaaggatctcaagaagat
ttcgtcaaggggtgactgaattggaagctagtttggcggagggtccgcaaaaaagcaaatgtctcgtcctcctaagctgctagcattttcctagagttcttcta

»» ColA ori »»

cctttacgattcccacacatcactctaga
gaaatgcctaaggcctgtggtagtgatct

»» ColA ori »»