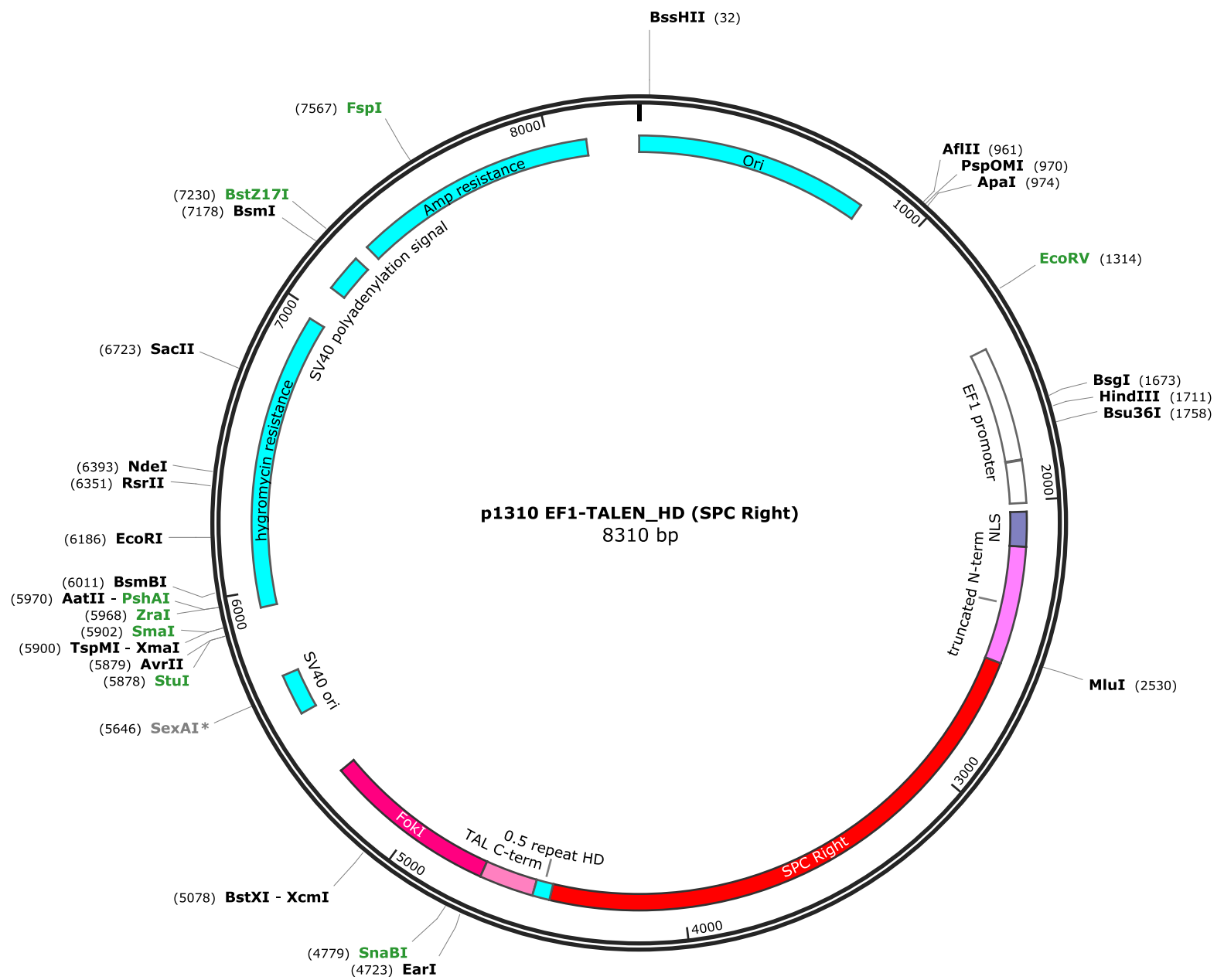
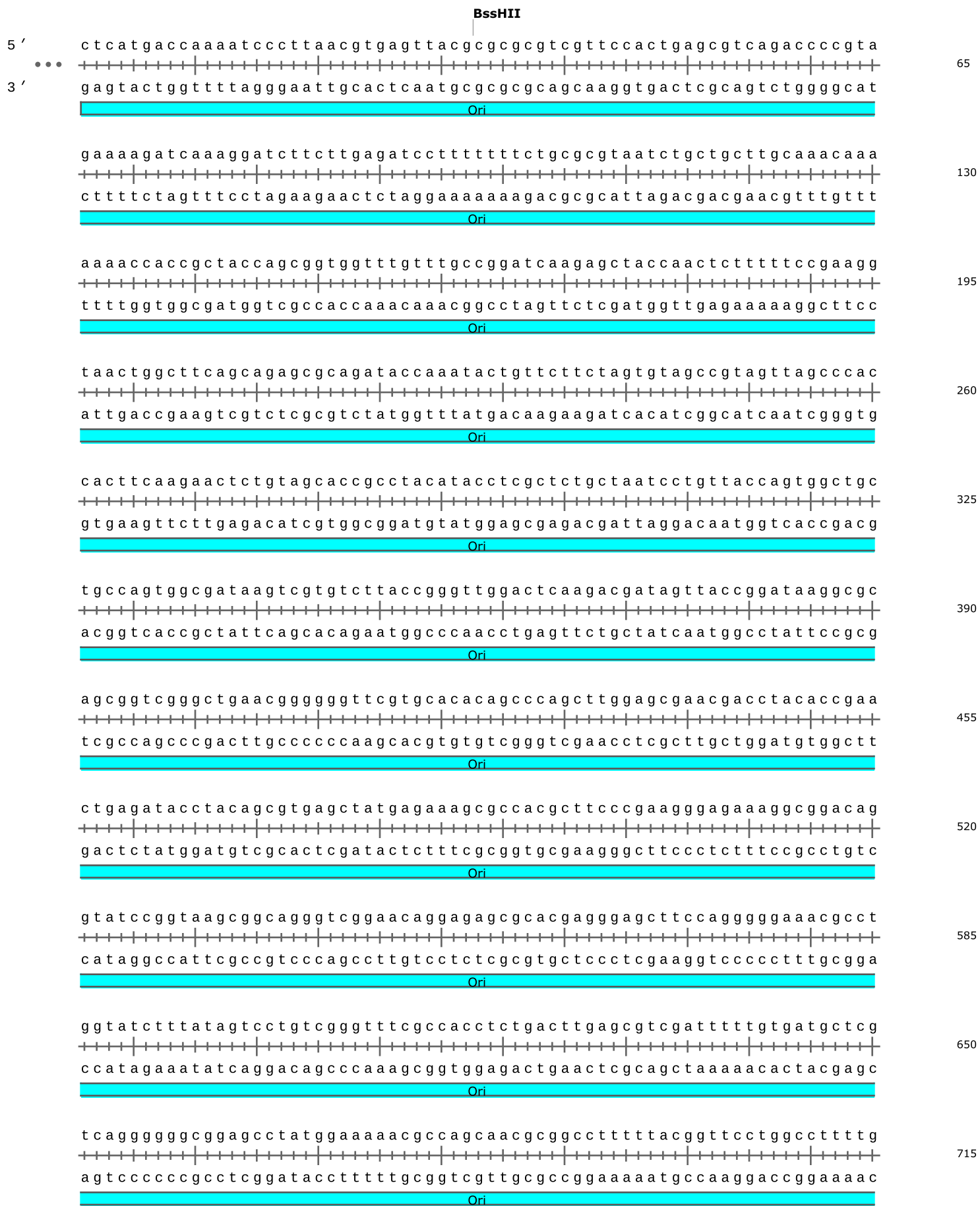
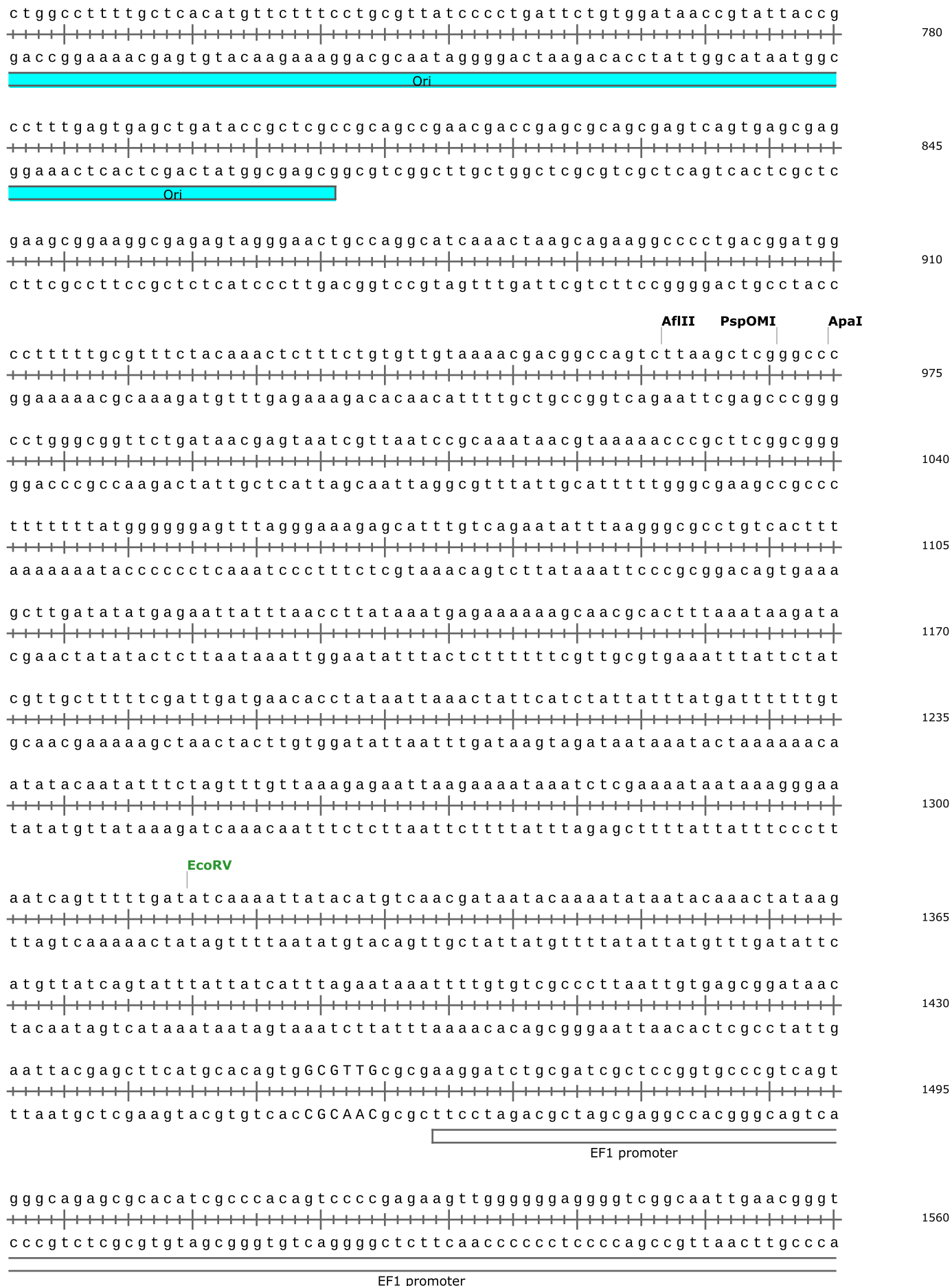
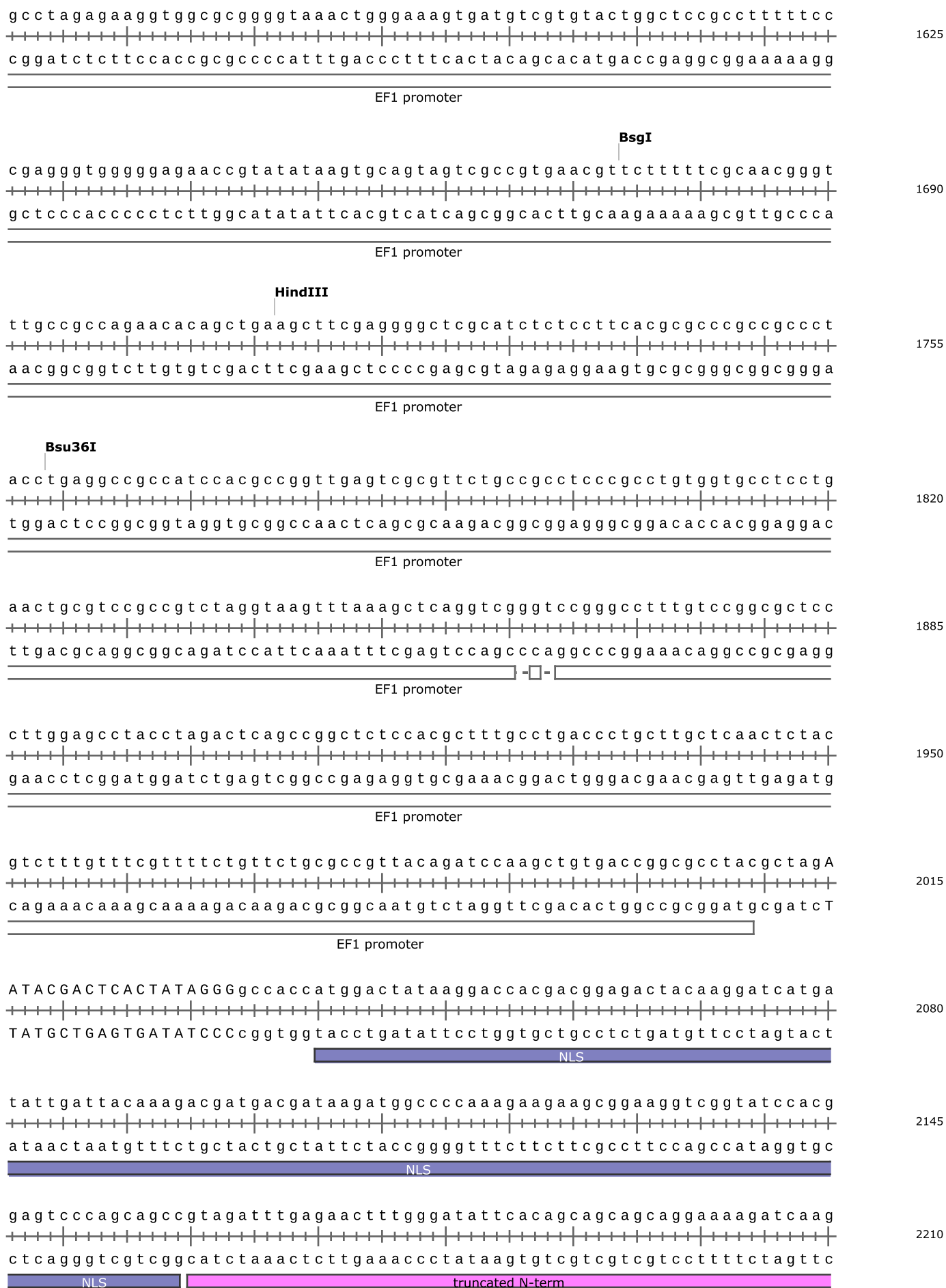
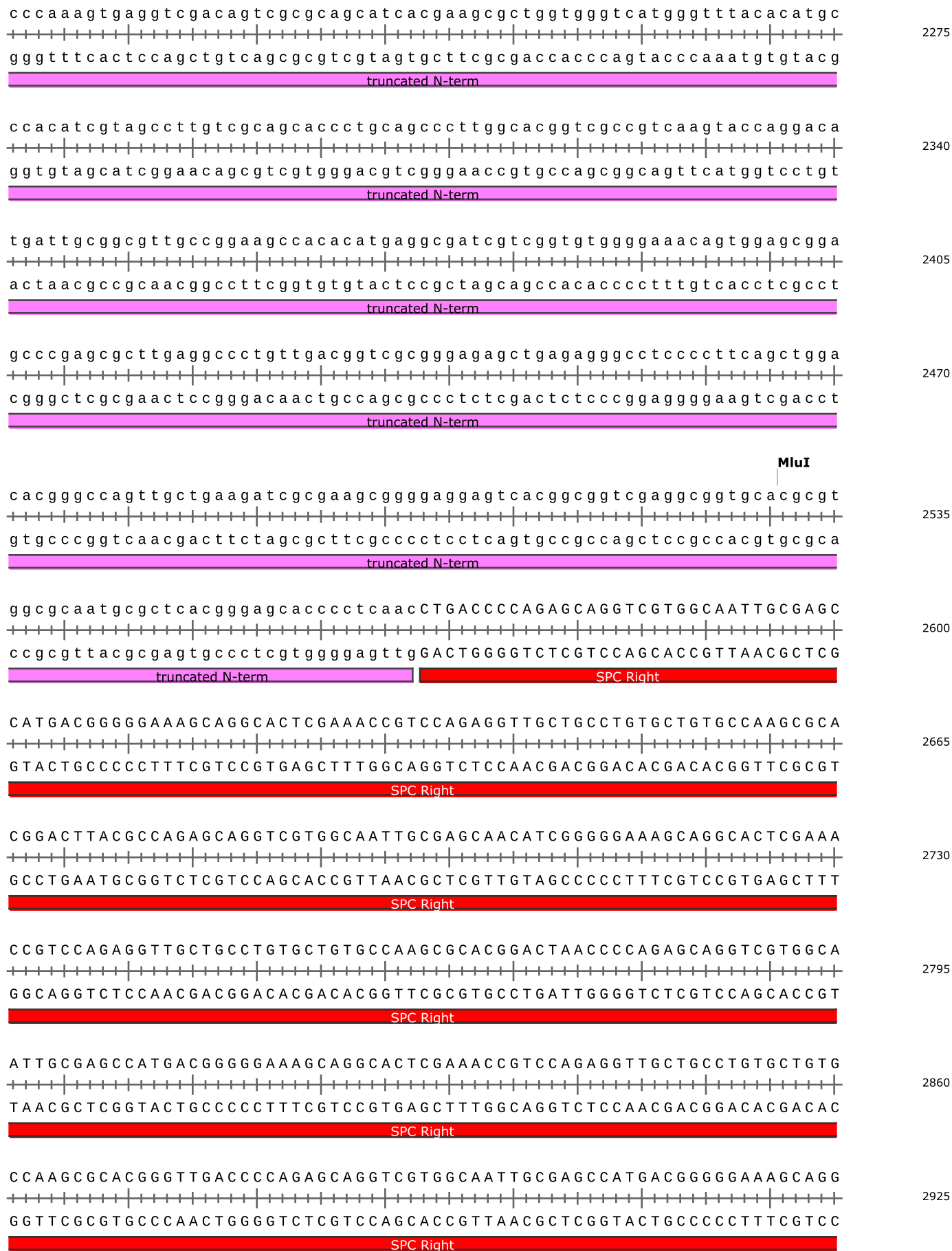


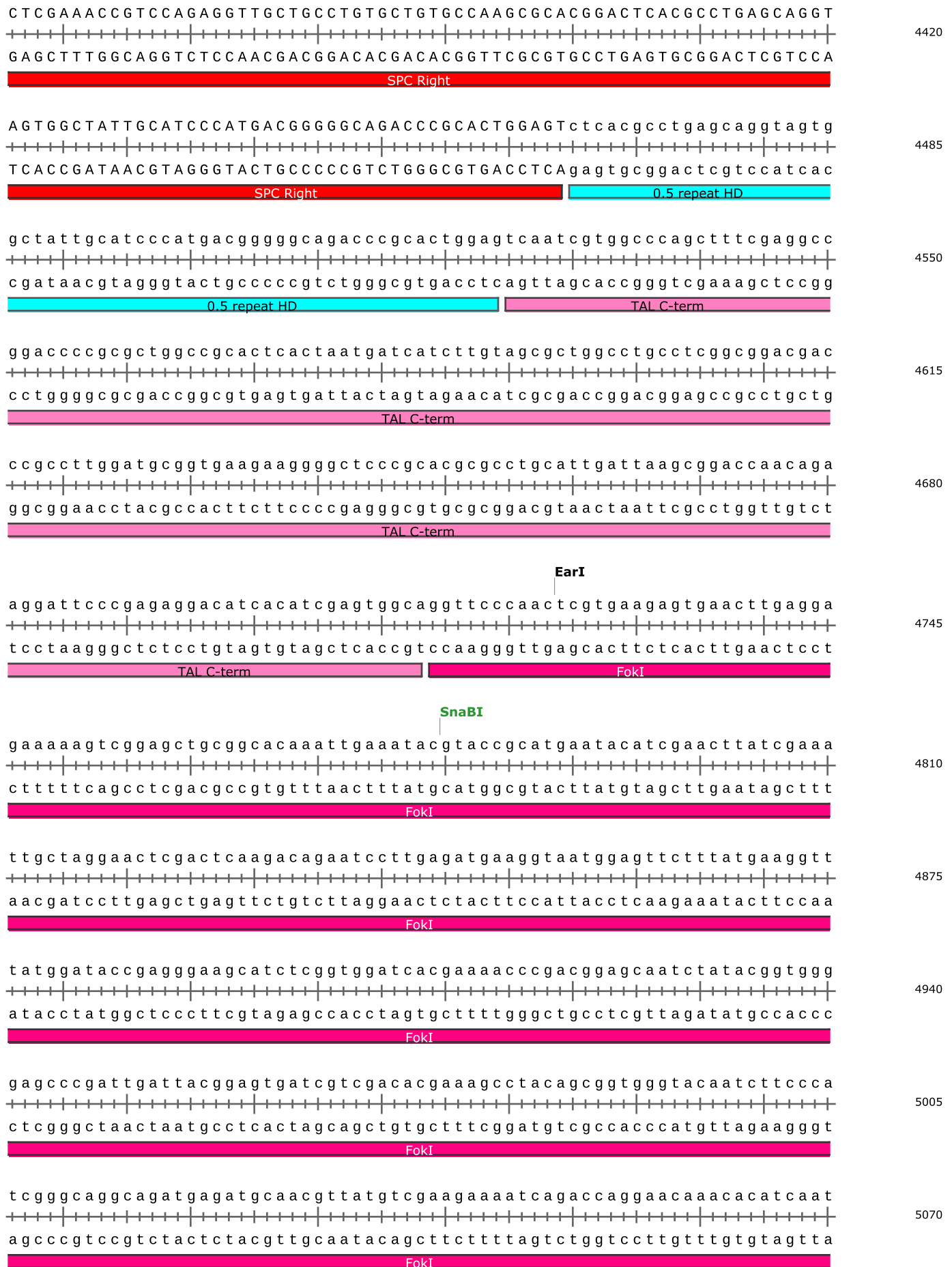




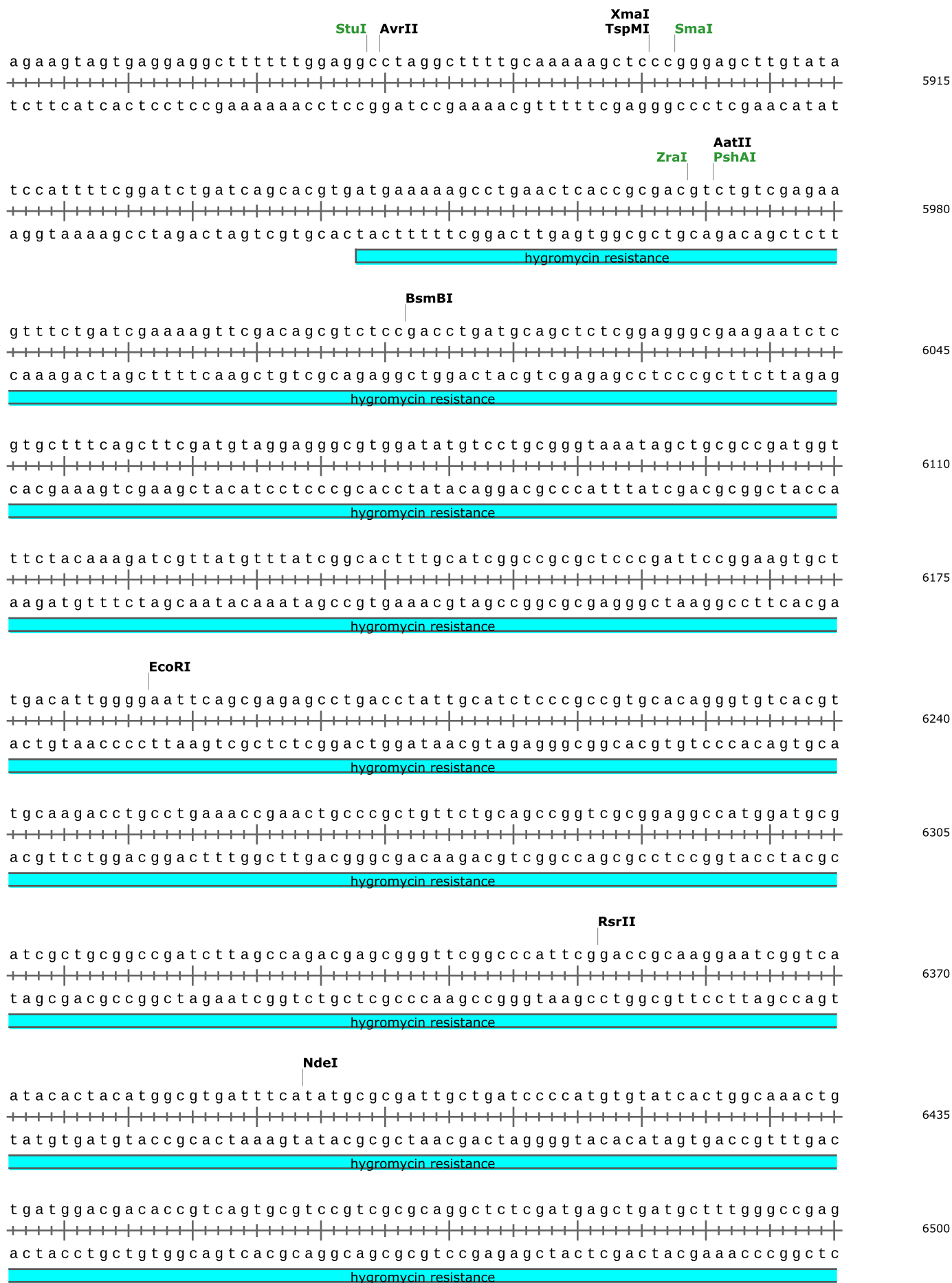


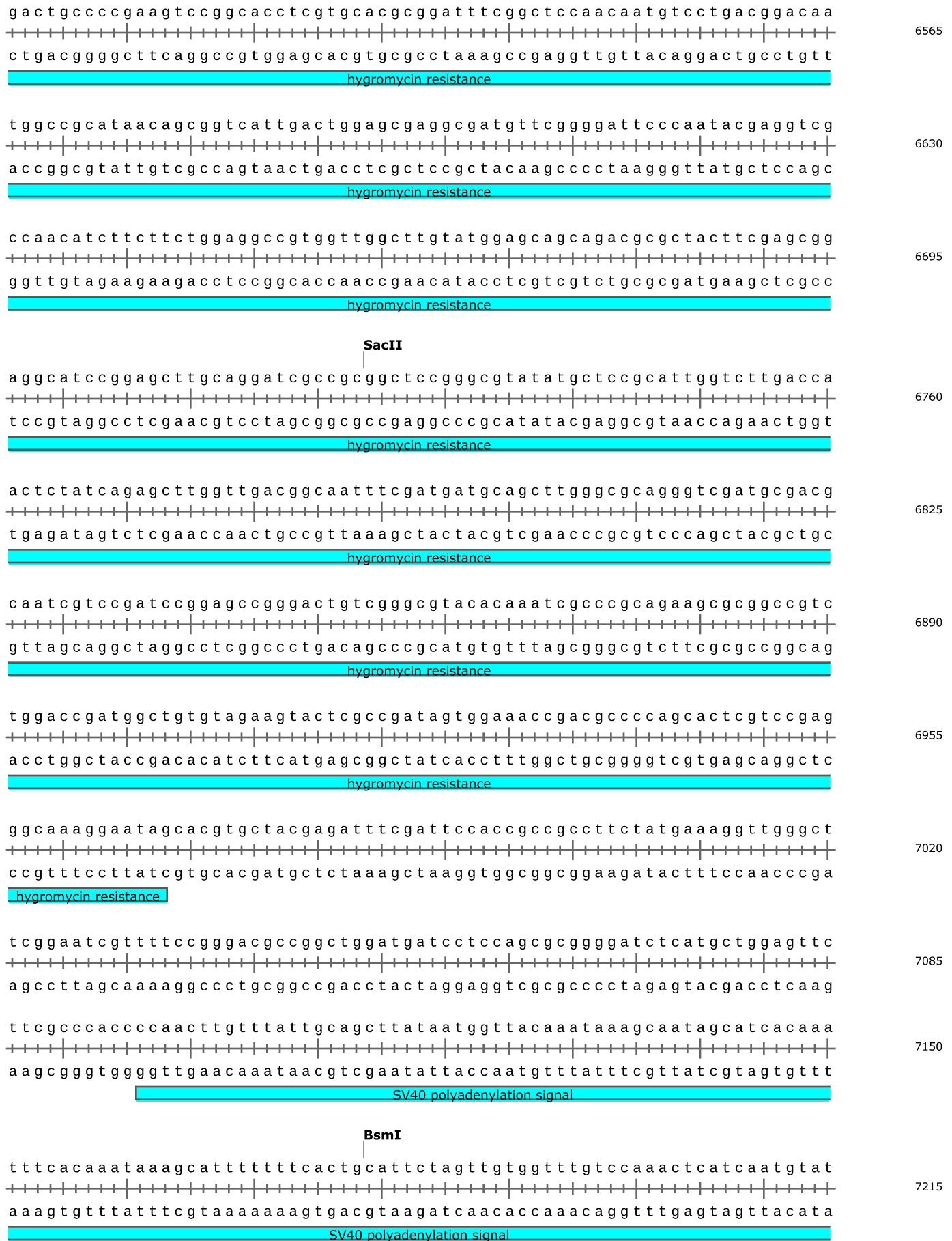






XcmI
BstXI





BstZ17I

cttatcatgtctgtataaccgtcgacctctagctagagcttggcgtaatcatggtcattaccaatg
 gaattagtagacatatggcagctggagatcgatctcgaaccgcattagtagcagtaatggttac

7280

SV40 polyadenylation signal

cttaatcagtgaggcacctatctcagcgatctgtctatttctgttcattccatagttgcctgactcc
 gaattagtcactccgtggatagagtcgctagacagataaagcaagtaggtatcaacggactgagg

7345

Amp resistance

ccgtcgtgtagataactacgatacgggagggcttaccatctggccccagcgctgcgatgataccg
 ggcagcacatctattgatgctatgccctcccgaatggtagaccggggtcgcgacgctactatggc

7410

Amp resistance

cgagaaccacgctcaccggctccggatttatcagcaataaaccagccagccggaagggccgagcg
 gctcttgggtgcgagtgggccgagggcctaaatagtcgttatttggtcgggtcggccttcccggctcgc

7475

Amp resistance

cagaagtggctcctgcaactttatccgcctccatccagtcctattaattgttgccgggaagctagag
 gtcttcaccaggacgttgaaataggcggaggttaggtcagataattaacaacggcccttcgatctc

7540

Amp resistance

FspI

taagtagttcgccagttaatagtttgccgaacgttgttgccatcgctacaggcatcgtgggtgtca
 attcatcaagcgggtcaattatcaaacgcgttgcaacaacggtagcgatgtccgtagcaccacagt

7605

Amp resistance

cgctcgtcgtttgggtatggcttcattcagctccgggttcccaacgatcaaggcgagttacatgatc
 gcgagcagcaaaccataccgaagtaagtcgaggccaagggttgctagttccgctcaatgtactag

7670

Amp resistance

ccccatgttgtgcaaaaaagcggtagctccttcggctcctccgatcgttgtcagaagtaagttgg
 ggggtacaacacgttttttcgccaatcgaggaagccaggaggctagcaacagtccttcattcaacc

7735

Amp resistance

ccgcagtggttatcactcatggttatggcagcactgcataattctcttactgtcatgccatccgta
 ggcgtcacaatagtgagtaccaataccgtcgtgacgtatttaagagaatgacagtacggtaggcatt

7800

Amp resistance

agatgcttttctgtgactgggtgagtactcaaccaagtcattctgagaatagtgtagtgcggcgacc
 tctacgaaaagacactgaccactcatgagttgggttcagtaagactcttatcacatacgccgctgg

7865

Amp resistance

gagttgctcttgccggcggtcaatacgggataataccgcgccacatagcagaactttaaaagtgc
 ctcaacgagaacgggcccgcagttatgccctattatggcgcgggtgtatcgtcttgaaattttcacg

7930

Amp resistance

Enzymes	Sites	
AatII	1	5970
AflII	1	961
ApaI	1	974
AvrII	1	5879
BsgI	1	1673
BsmI	1	7178
BsmBI	1	6011
BssHII	1	32
BstXI	1	5078
BstZ17I	1	7230
Bsu36I	1	1758
EarI	1	4723
EcoRI	1	6186
EcoRV	1	1314
FspI	1	7567
HindIII	1	1711
MluI	1	2530
NdeI	1	6393
PshAI	1	5970
PspOMI	1	970
RsrII	1	6351
SacII	1	6723
SexAI	1*	5646*
SmaI	1	5902
SnaBI	1	4779
StuI	1	5878
TspMI	1	5900
XcmI	1	5078
XmaI	1	5900
ZraI	1	5968

	Feature	Location	Size (bp)			Type
✓	Ori /label = Ori	1 .. 806	806			misc_feature
✓	EF1 promoter ▶ 3 segments	1464 .. 2009	546			promoter
✓	NLS /label = NLS	2040 .. 2159	120			misc_feature
✓	truncated N-term /label = truncated N-term	2160 .. 2567	408			misc_feature
✓	SPC Right	2568 .. 4464	1897			misc_feature
✓	0.5 repeat HD /label = 0.5 repeat HD	4465 .. 4524	60			misc_feature
✓	TAL C-term /label = TAL C-term	4525 .. 4713	189			misc_feature
✓	FokI /label = FokI	4714 .. 5316	603			misc_feature
✓	SV40 ori /label = SV40 ori	5554 .. 5697	144			misc_feature
✓	hygromycin resistance /label = hygromycin resistance	5943 .. 6968	1026			misc_feature
✓	SV40 polyadenylation signal /label = SV40 polyadenylation signal	7096 .. 7226	131			misc_feature
✓	Amp resistance /label = Amp resistance	7281 .. 8129	849			misc_feature

Description: TALENs were constructed using EZ-TAL TALE Assembly Kit (System Bioscience), according to manufacturer's instructions, and the resulting SFTPC TALENS encoding plasmids were named EF1a-TALEN_NN (SPC left) and EF1a-TALEN_HD (SPC right), respectively. TALENs were designed to target the sequences close to the translation initiation (ATG) site of the human SFTPC gene. All TALENs and donor template plasmid maps and sequences are available at www.kottonlab.com. The SFTPC TALEN recognition sequences are: left TALEN 5'-TAG CAC CTG CAG CAA GAT GG-3' and right TALEN 5'-TCA CCG GCG GGC TCT CCA TC-3'. Between the two binding sites is a 22 bp spacer (ATG TGG GCA GCA AAG AGG TCC T).

Created: Mar 12, 2015

Last Modified: Sep 19, 2017

Accession Number:

Code Number:

Sequence Author:

DNA Type: Synthetic DNA

Laboratory Host Organism:

Bacterial Transformation Strain: DH5a™
Dam⁺ Dcm⁺ EcoKI⁺

Comments:

References: