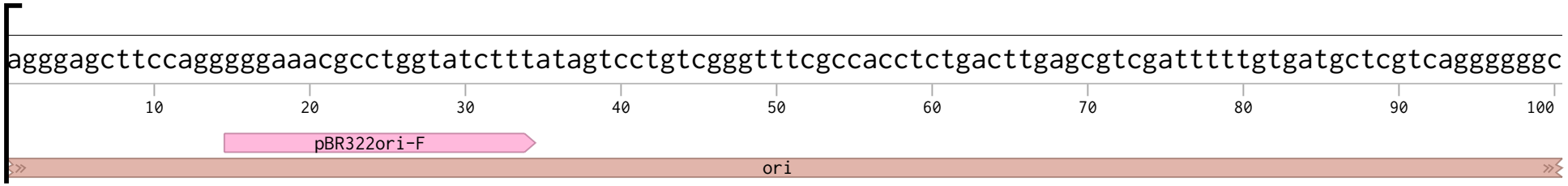
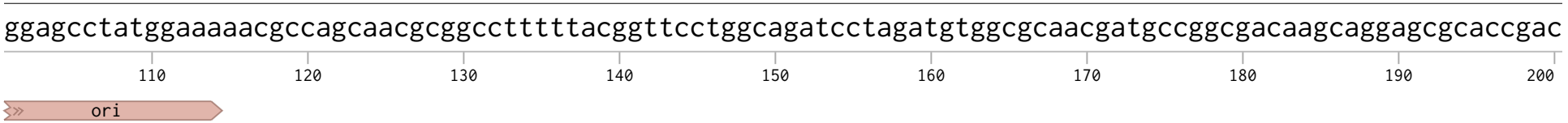
Template Alignment: 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_...



template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

ttcttccgcatcaagtgttttggctctcaggccgaggcccacggcaagtatttgggcaaggggtcgctggtattcgtgcagggcaagattcggaatacca

210 220 230 240 250 260 270 280 290 300

template sequence pAS1.3

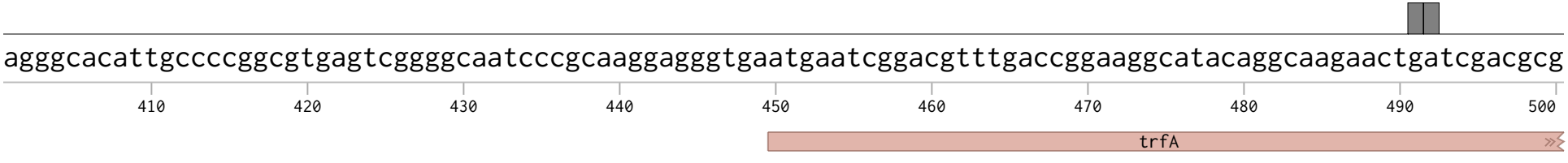
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

agtacgagaaggacggccagacggtctacgggaccgacttcattgccgataaggtggattatctggacaccaaggcaccaggcgggtcaaatcaggaata

310 320 330 340 350 360 370 380 390 400

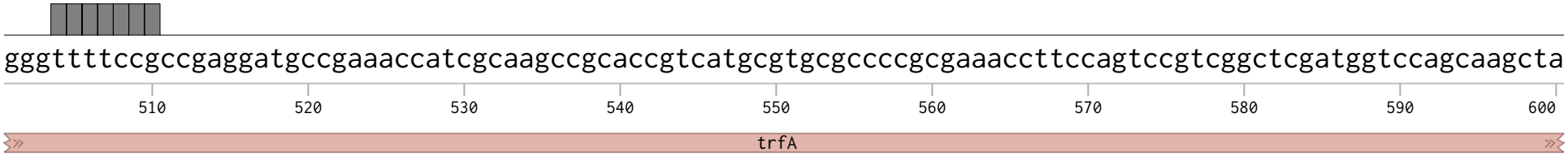
template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

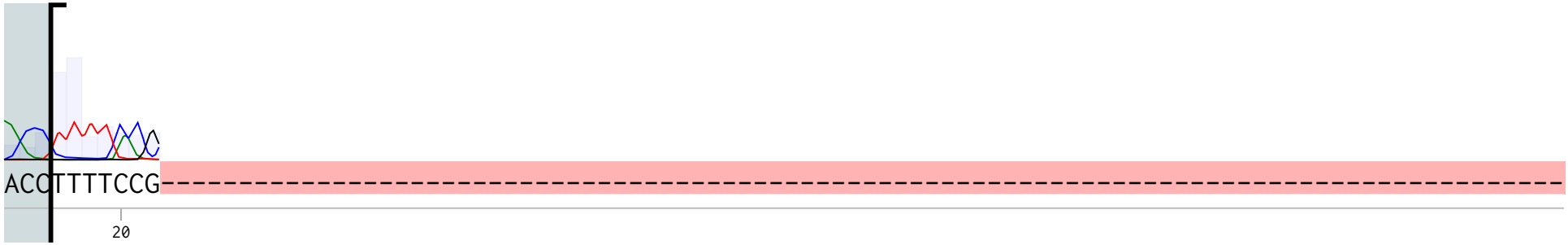


template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



template sequence pAS1.3



aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

cggccaagatcgagcgcgacagcgtgcaactggctccccctgccctgcccgcgccatcggccgccgtggagcgttcgcgtcgtcttgaacaggaggcggc

610 620 630 640 650 660 670 680 690 700

trfA

template sequence pAS1.3

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aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

aggtttggcgaagtcgatgaccatcgacacgcgaggaactatgacgaccaagaagcgaaaaaccgccggcgaggacctggcaaaacaggtcagcgaggcc

710 720 730 740 750 760 770 780 790 800

trfA

template sequence pAS1.3

----

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

aagcaggccgcgttgctgaaacacacgaagcagcagatcaaggaaatgcagctttccttgttcgatattgcgccgtggccggacacgatgcgagcgatgc

810 820 830 840 850 860 870 880 890 900

trfA

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

caaacgacacggcccgctctgccctgttcaccacgcgcaacaagaaaatcccgcgcgaggcgctgcaaaacaaggtcattttccacgtcaacaaggacgt

910 920 930 940 950 960 970 980 990 1,000

trfA

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

gaagatcacctacaccggcgtcgagctgcgggccgacgatgacgaactggtgtggcagcaggtgttggagtacgcgaagcgcacccctatcggcgagccg

1,010 1,020 1,030 1,040 1,050 1,060 1,070 1,080 1,090 1,100

trfA

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

atcaccttcacgttctacgagctttgccaggacctgggctggtcgatcaatggccggtattacacgaaggccgaggaatgcctgtcgcgcctacaggcga

1,110 1,120 1,130 1,140 1,150 1,160 1,170 1,180 1,190 1,200

trfA

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

cggcgatgggcttcacgtccgaccgcgttgggcacctggaatcggtgtcgctgctgcaccgcttccgcgtcctggaccgtggcaagaaaacgtcccgttg

1,210 1,220 1,230 1,240 1,250 1,260 1,270 1,280 1,290 1,300

trfA

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

ccaggtcctgatcgacgaggaaatcgtcgtgctgtttgctggcgaccactacacgaaattcatatgggagaagtaccgcaagctgtcgccgacggcccga

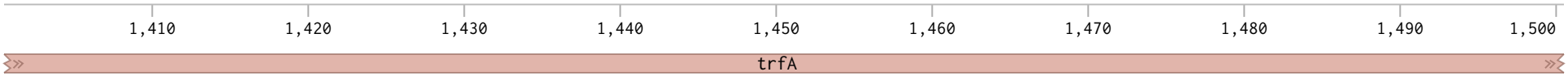
1,310 1,320 1,330 1,340 1,350 1,360 1,370 1,380 1,390 1,400

trfA

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

cggatgttcgactatttcagctcgcaccgggagccgtacccgctcaagctggaaaccttccgcctcatgtgcggatcggattccacccgcgtgaagaagt



template sequence pAS1.3

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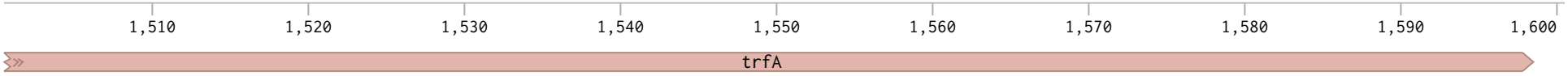
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

ggcgcgagcaggtcggcgaagcctgcgaagagttgcgaggcagcggcctggtggaacacgcctgggtcaatgatgacctggtgcattgcaaacgctaggg



template sequence pAS1.3

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aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

ccttgtggggtcagttccggctgggggttcagcagccagcgcctgatctggggaaccctgtggttggcatgcacatacaaatggacgaacggataaacct

1,610 1,620 1,630 1,640 1,650 1,660 1,670 1,680 1,690 1,700

template sequence pAS1.3

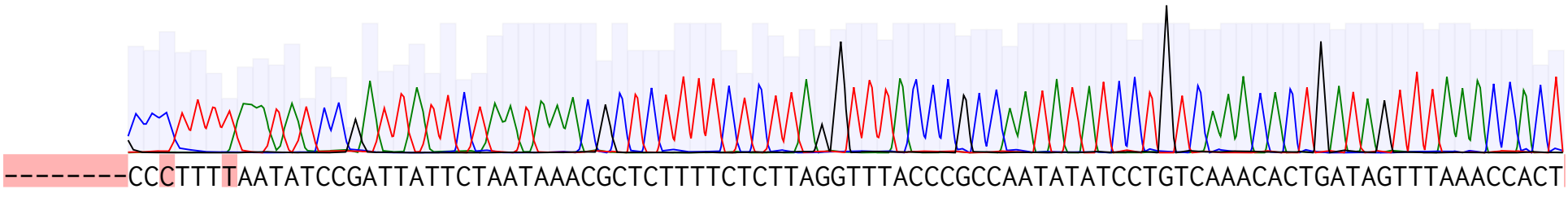
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

tttcacgccctttaaatatccgattattctaataaacgctcttttctcttaggtttacccgccaatatatcctgtcaaacactgatagtttaaaccact

1,710 1,720 1,730 1,740 1,750 1,760 1,770 1,780 1,790 1,800

RB T-DNA repeat

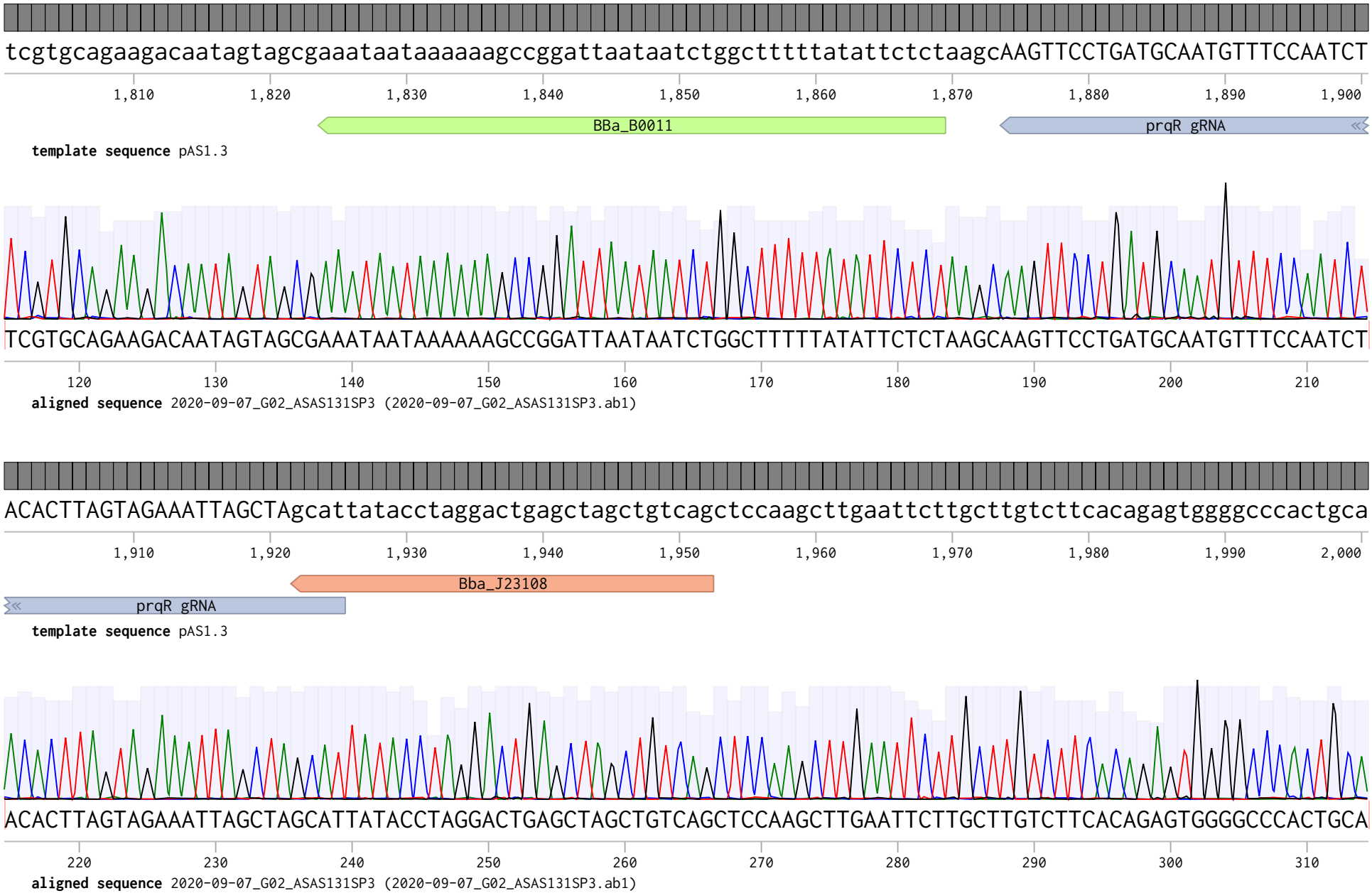
template sequence pAS1.3

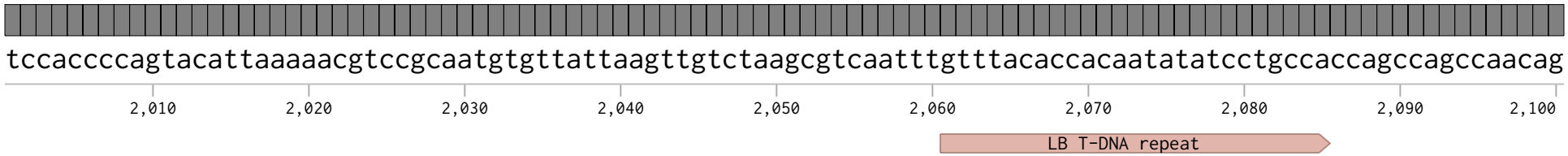


--------CCCTTTTAATATCCGATTATTCTAATAAACGCTCTTTTCTCTTAGGTTTACCCGCCAATATATCCTGTCAAACACTGATAGTTTAAACCACT

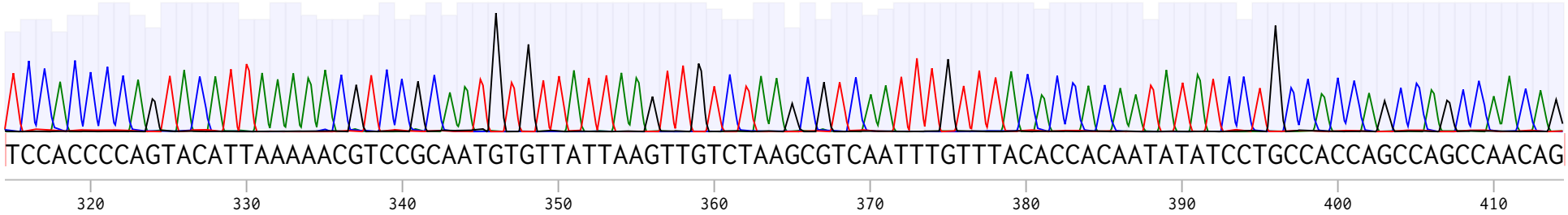
30 40 50 60 70 80 90 100 110

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

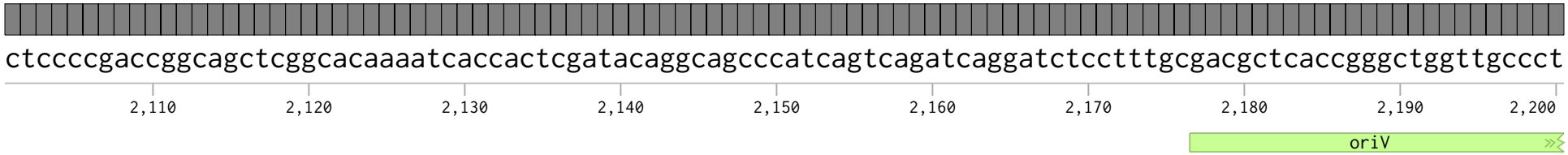

tcgtgcagaagacaatagtagcgaaataataaaaaagccggattaataatctggctttttatattctctaagcAAGTTCCTGATGCAATGTTTCCAATCT
1,810
1,820
1,830
1,840
1,850
1,860
1,870
1,880
1,890
1,900
BBa_B0011
prqR gRNA
template sequence pAS1.3
TCGTGCAGAAGACAATAGTAGCGAAATAATAAAAAAGCCGGATTAATAATCTGGCTTTTTATATTCTCTAAGCAAGTTCCTGATGCAATGTTTCCAATCT
120
130
140
150
160
170
180
190
200
210
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)
ACACTTAGTAGAAATTAGCTAgcattatacctaggactgagctagctgtcagctccaagcttgaattcttgcttgtcttcacagagtggggcccactgca
1,910
1,920
1,930
1,940
1,950
1,960
1,970
1,980
1,990
2,000
Bba_J23108
prqR gRNA
template sequence pAS1.3
ACACTTAGTAGAAATTAGCTAGCATTATACCTAGGACTGAGCTAGCTGTCAGCTCCAAGCTTGAATTCTTGCTTGTCTTCACAGAGTGGGGCCCACTGCA
220
230
240
250
260
270
280
290
300
310
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



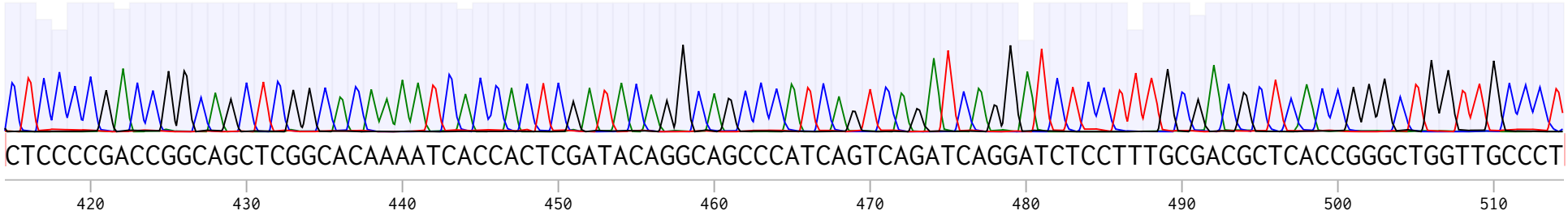
template sequence pAS1.3



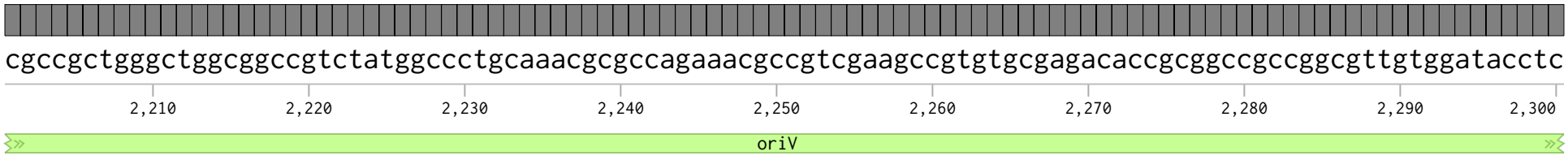
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



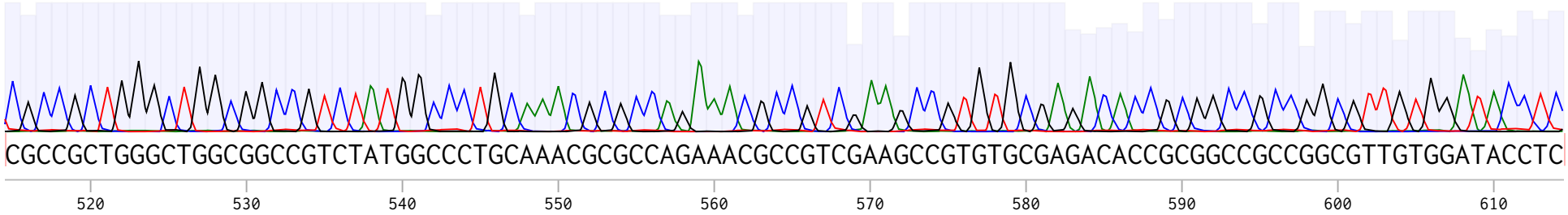
template sequence pAS1.3



aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



template sequence pAS1.3



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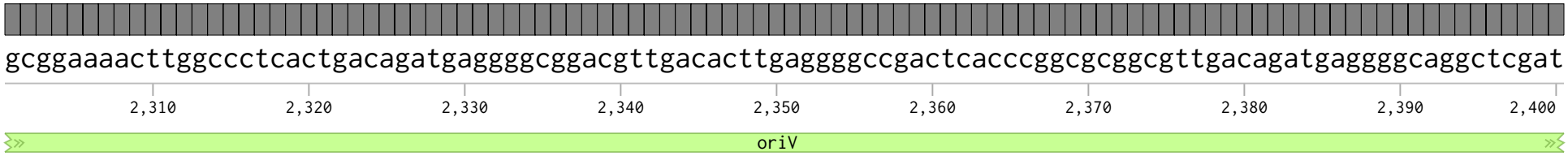
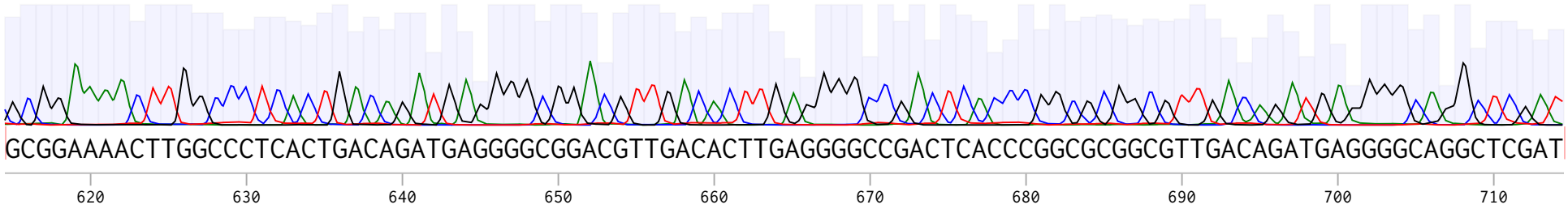
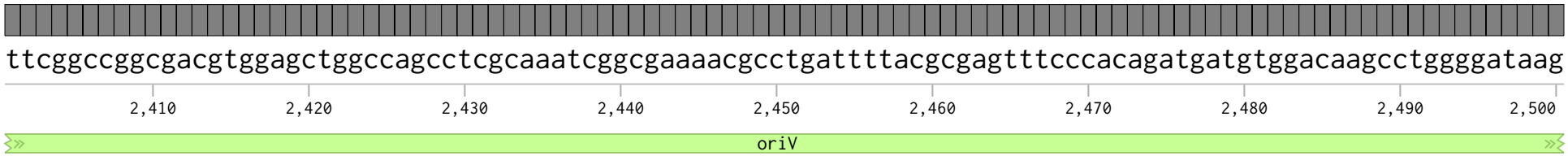


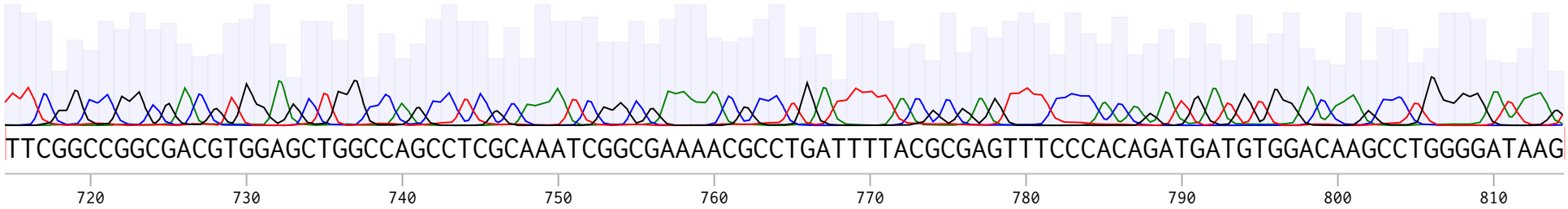
template sequence pAS1.3



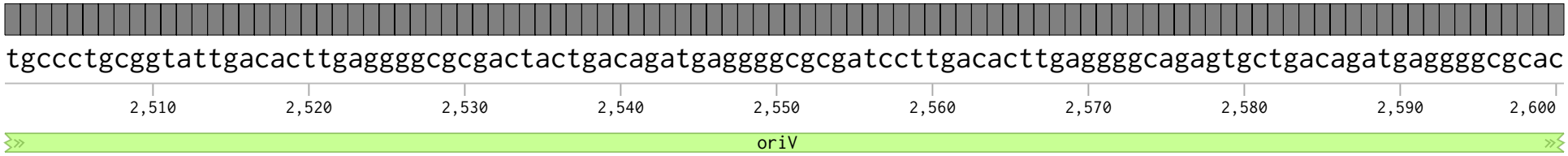
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



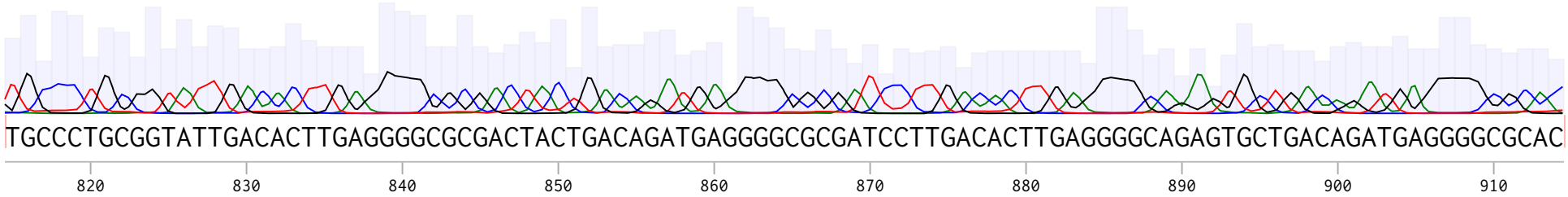
template sequence pAS1.3



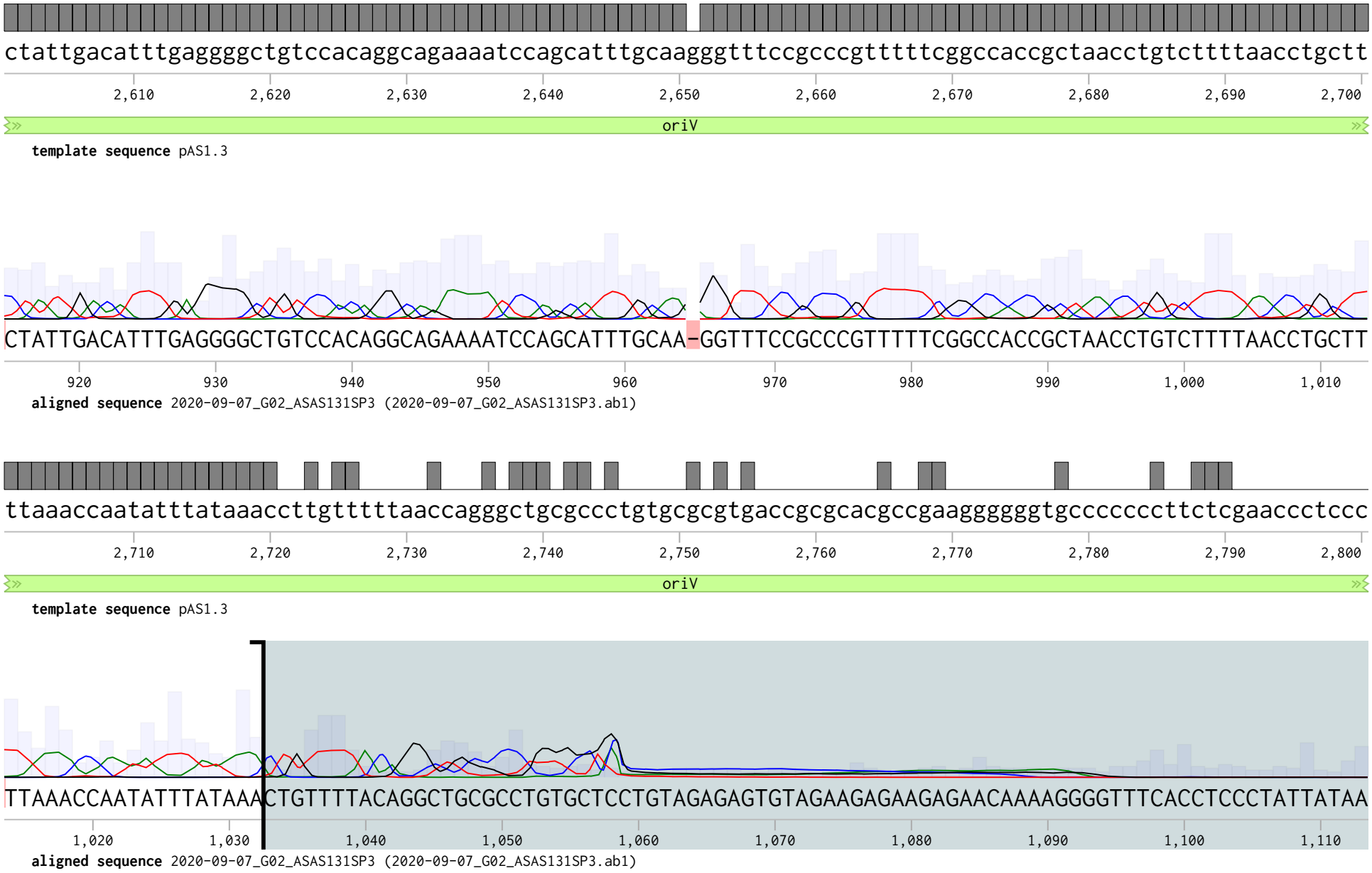
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

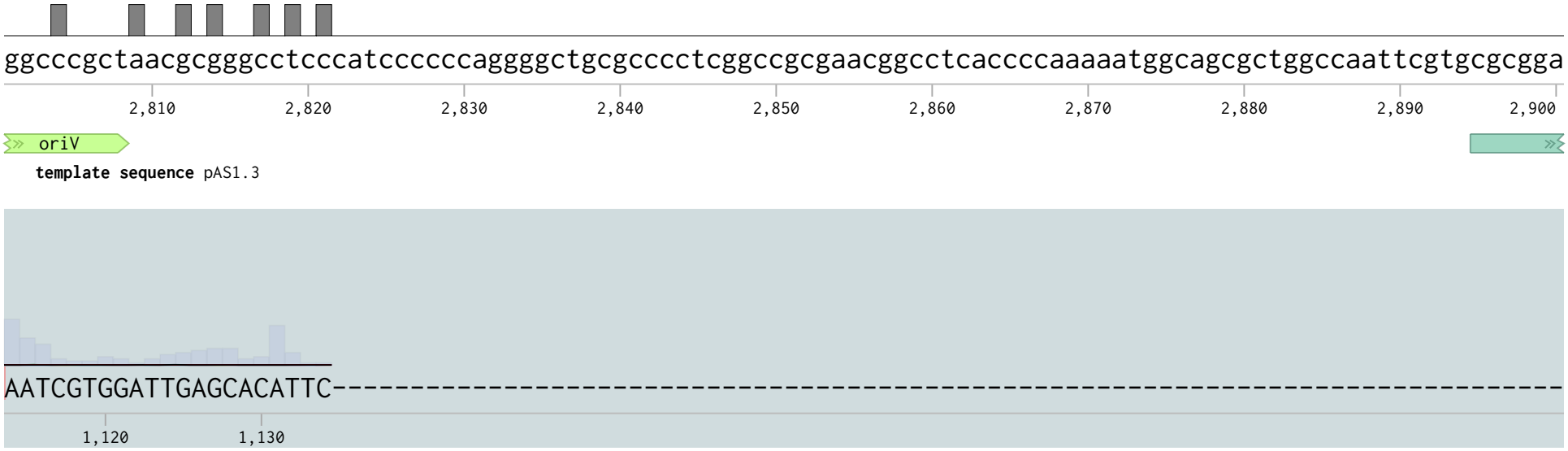


template sequence pAS1.3



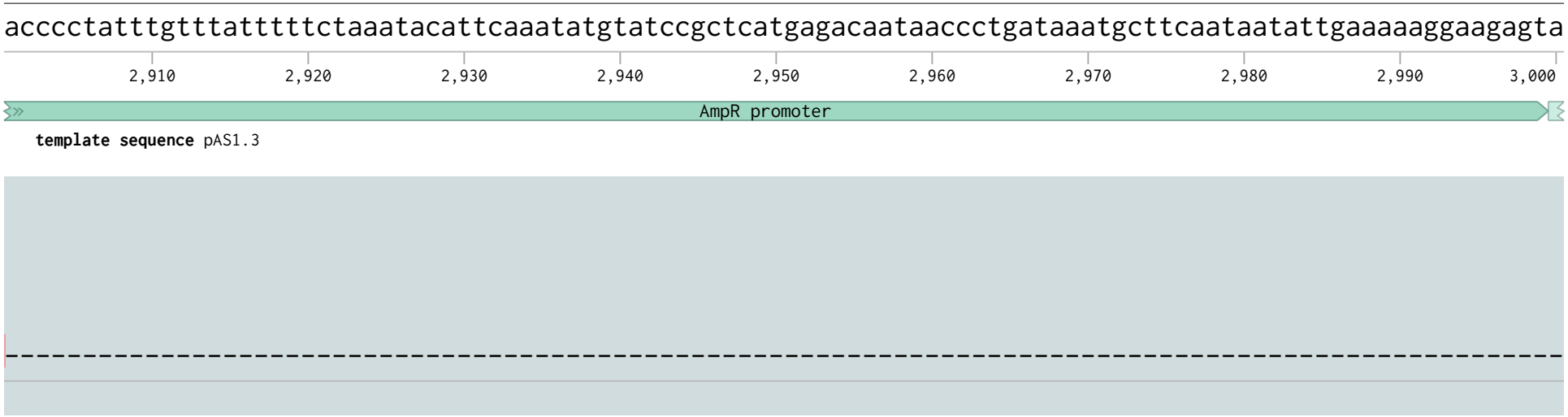
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)


ctattgacatttgaggggctgtccacaggcagaaaatccagcatttgcaagggtttccgcccgtttttcggccaccgctaacctgtcttttaacctgctt
2,610
2,620
2,630
2,640
2,650
2,660
2,670
2,680
2,690
2,700
oriV
template sequence pAS1.3
CTATTGACATTTGAGGGGCTGTCCACAGGCAGAAAATCCAGCATTTGCAA-GGTTTCCGCCCGTTTTTCGGCCACCGCTAACCTGTCTTTTAACCTGCTT
920
930
940
950
960
970
980
990
1,000
1,010
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)
ttaaaccaatatttataaaccttgtttttaaccagggctgcgccctgtgcgcgtgaccgcgcacgccgaaggggggtgccccccccttctcgaaccctccc
2,710
2,720
2,730
2,740
2,750
2,760
2,770
2,780
2,790
2,800
oriV
template sequence pAS1.3
TTAAACCAATATTTATAAACTGTTTTACAGGCTGCGCCTGTGCTCCTGTAGAGAGTGTAGAAGAGAAGAGAACAAAAGGGGTTTCACCTCCCTATTATAA
1,020
1,030
1,040
1,050
1,060
1,070
1,080
1,090
1,100
1,110
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)



template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

tgagtattcaacatttccgtgtcgcccttattccctttttgcggcattttgccttcctgttttgctcacccagaaacgctggtgaaagtaaaagatgc

3,010 3,020 3,030 3,040 3,050 3,060 3,070 3,080 3,090 3,100

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

tgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaagatccttgagagttttcgccccgaagaacgtttccaatgatg

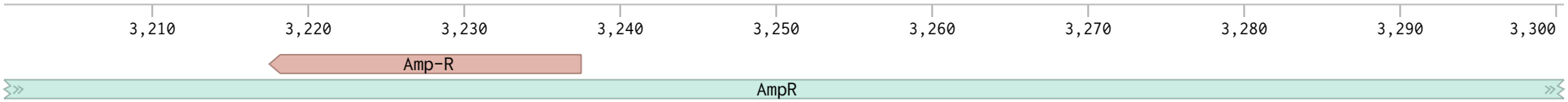
3,110 3,120 3,130 3,140 3,150 3,160 3,170 3,180 3,190 3,200

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

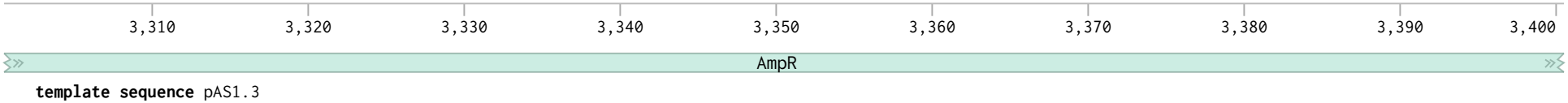
agcacttttaaagttctgctatgtggcgcggtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttgg



template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

ttgagtactcaccagtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataaccatgagtgataacactgcggccaa



template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

cttacttctgacaacgatcggaggaccgaaggagctaaccgctttttgcacaacatgggggatcatgtaactcgccttgatcgttgggaaccggagctg

3,410 3,420 3,430 3,440 3,450 3,460 3,470 3,480 3,490 3,500

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

aatgaagccataccaaacgacgagcgtgacaccacgatgcctgtagcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagctt

3,510 3,520 3,530 3,540 3,550 3,560 3,570 3,580 3,590 3,600

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

cccggcaacaattaatagactggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttattgctgataaatctgg

3,610 3,620 3,630 3,640 3,650 3,660 3,670 3,680 3,690 3,700

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

agccggtgagcgtggttctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagttatctacacgacggggagtcaggcaact

3,710 3,720 3,730 3,740 3,750 3,760 3,770 3,780 3,790 3,800

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

atggatgaacgaaatagacagatcgctgagataggtgcctcactgattaagcattggtaactgtcagaccaagtttactcatatatactttagattgatt

3,810 3,820 3,830 3,840 3,850 3,860 3,870 3,880 3,890 3,900

AmpR

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

taaaacttcatttttaatttaaaaggatctaggtgaagatccttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccactgagcgtc

3,910 3,920 3,930 3,940 3,950 3,960 3,970 3,980 3,990 4,000

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

agaccccgtagaaaagatcaaaggatcttcttgagatccttttttctgcgcgtaatctgctgcttgcaaacaaaaaaaccaccgctaccagcggtggtt

4,010 4,020 4,030 4,040 4,050 4,060 4,070 4,080 4,090 4,100

ori

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

tgtttgccggatcaagagctaccaactcttttccgaaggtaactggcttcagcagagcgcagataccaaatactgtccttctagtgtagccgtagttag

4,110 4,120 4,130 4,140 4,150 4,160 4,170 4,180 4,190 4,200

ori

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

gccaccacttcaagaactctgtagcaccgcctacatacctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccgg

4,210 4,220 4,230 4,240 4,250 4,260 4,270 4,280 4,290 4,300

ori

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

gttggactcaagacgatagttaccggataaggcgcagcggtcgggctgaacgggggttcgtgcacacagcccagcttggagcgaacgacctacaccgaa

4,310 4,320 4,330 4,340 4,350 4,360 4,370 4,380 4,390 4,400

ori

template sequence pAS1.3

aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)

ctgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcggacaggtatccggtaagcggcagggtcggaacaggagagc
4,410
4,420
4,430
4,440
4,450
4,460
4,470
4,480
4,490
4,500
ori
template sequence pAS1.3
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)
gcacg
4,505
template sequence pAS1.3
aligned sequence 2020-09-07_G02_ASAS131SP3 (2020-09-07_G02_ASAS131SP3.ab1)