

Template Alignment: 2020-11-16_G09_ASASO14BSP1

gctgctgccagtggcgataagtcgtgtcttaccgggttggaactcaagacgatagttaccggataaggcgagcggtcgggctgaacgggggggttcgtgca

10 20 30 40 50 60 70 80 90 100

ori

ColE1 origin

template sequence pAS0.14 (mScarletI)

aligned sequence 2020-11-16_G09_ASASO14BSP1

cacagcccagcttggagcgaacgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaaggagaaaggcggacag

110 120 130 140 150 160 170 180 190 200

ori

ColE1 origin

template sequence pAS0.14 (mScarletI)

aligned sequence 2020-11-16_G09_ASASO14BSP1

gtatccggttaagcggcagggtcggaacaggagagcgcacgagggagcttccaggggaaacgcctggtatctttatagtcctgtcgggtttcgccacctc

210

220

230

240

250

260

270

280

290

300

pBR322ori-F

ori

ColE1 origin

template sequence pAS0.14 (mScarletI)

aligned sequence 2020-11-16_G09_ASASO14BSP1

tgacttgagcgtcgatTTTTgtgatgctcgtcaggggggcggagcctatggaaaaacgccagcaacgcggcctTTTTacggttcctggcctTTTtgctggc

310

320

330

340

350

360

370

380

390

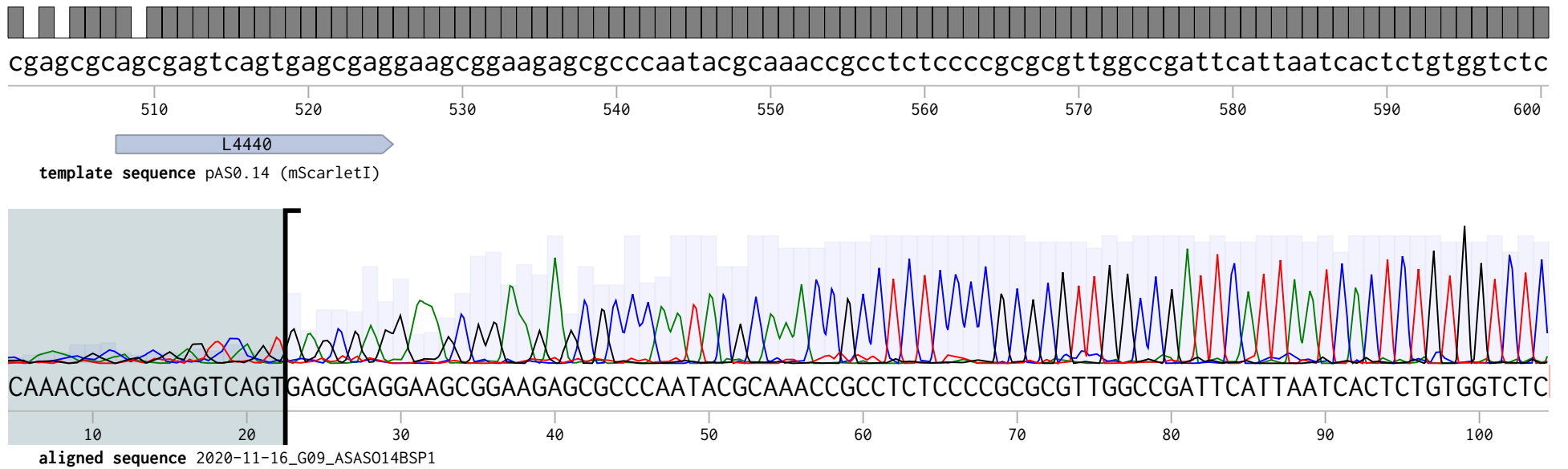
400

ori

ColE1 origin

template sequence pAS0.14 (mScarletI)

aligned sequence 2020-11-16_G09_ASASO14BSP1

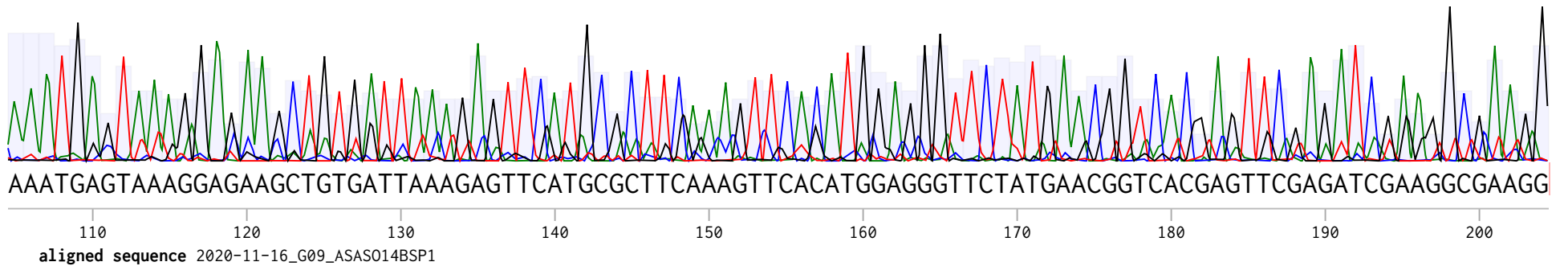


aaatgagtaaaggagaagctgtgattaaagagttcatgcgcttcaaagttcacatggagggttctatgaacggtcacgagttcgagatcgaaggcgaagg

610 620 630 640 650 660 670 680 690 700

mScarletI

template sequence pAS0.14 (mScarletI)

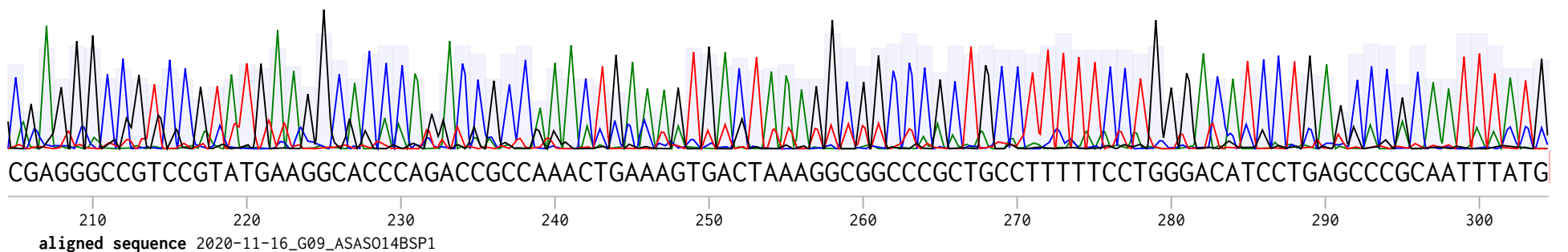


cgagggccgtccgtatgaaggcaccagaccgccaactgaaagtgactaaaggcggcccgtgcctttttcctgggacatcctgagcccgcaatttatg

710 720 730 740 750 760 770 780 790 800

mScarletI

template sequence pAS0.14 (mScarletI)

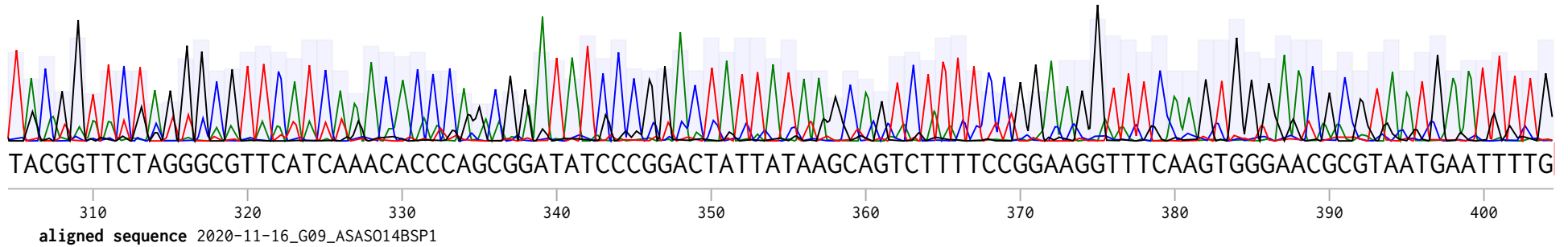


tacggttctagggcgttcatcaaacacccagcggatatcccgactattataagcagtcctttccggaaggtttcaagtgggaacgcgtaatgaattttg

810 820 830 840 850 860 870 880 890 900

mScarletI

template sequence pAS0.14 (mScarletI)

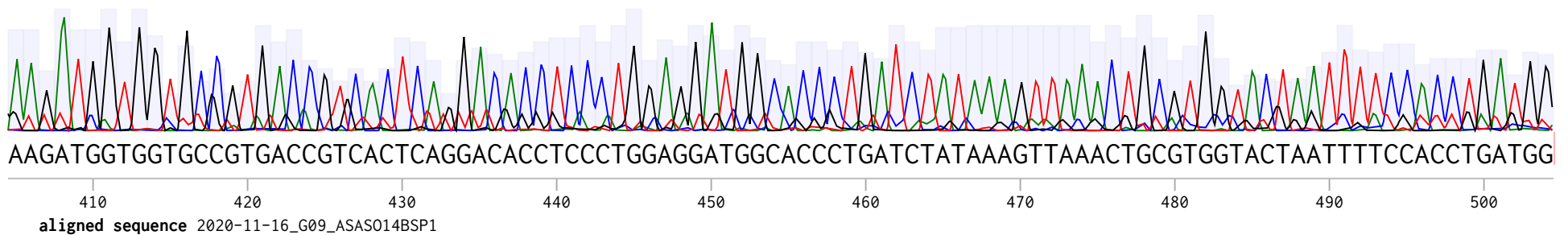


aagatggtggtgccgtgaccgtcactcaggacacctccctggaggatggcaccctgatctataaagttaaactgcggtggtactaattttccacctgatgg

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

mScarletI

template sequence pAS0.14 (mScarletI)

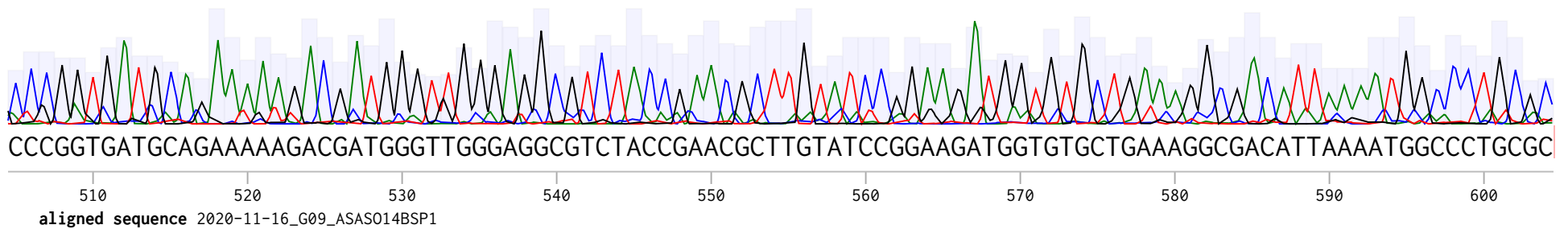


cccggtgatgcagaaaaagacgatgggttgggaggcgtctaccgaacgcttgatccggaagatggtgtgctgaaaggcgacattaaaatggccctgcg

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

mScarletI

template sequence pAS0.14 (mScarletI)

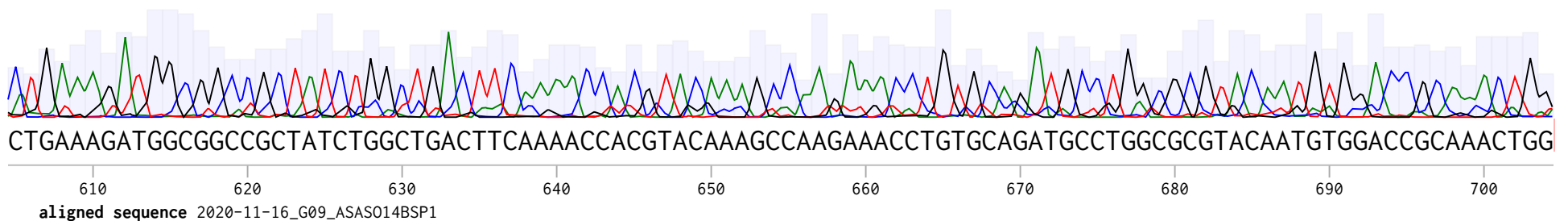


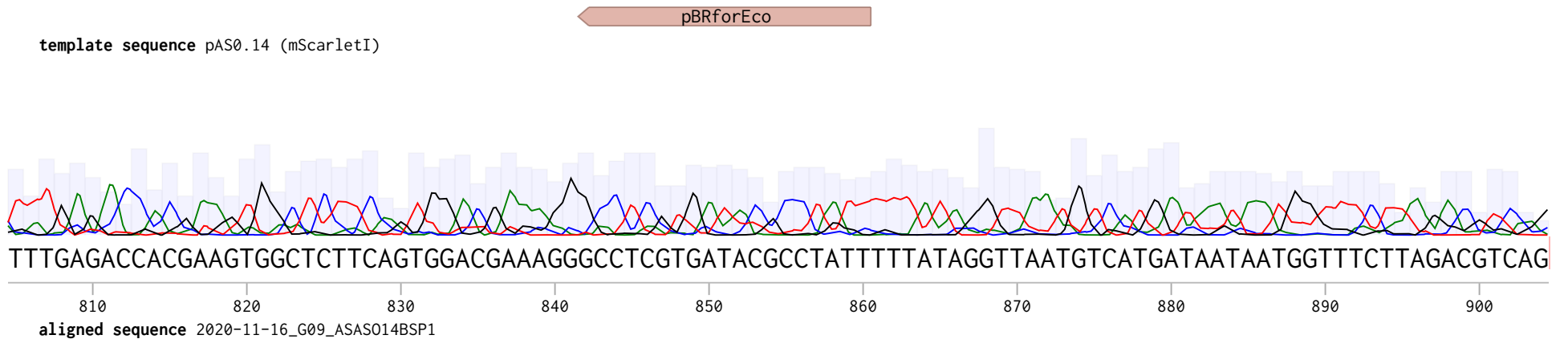
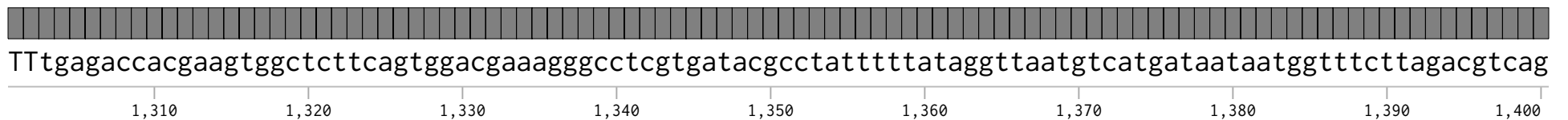
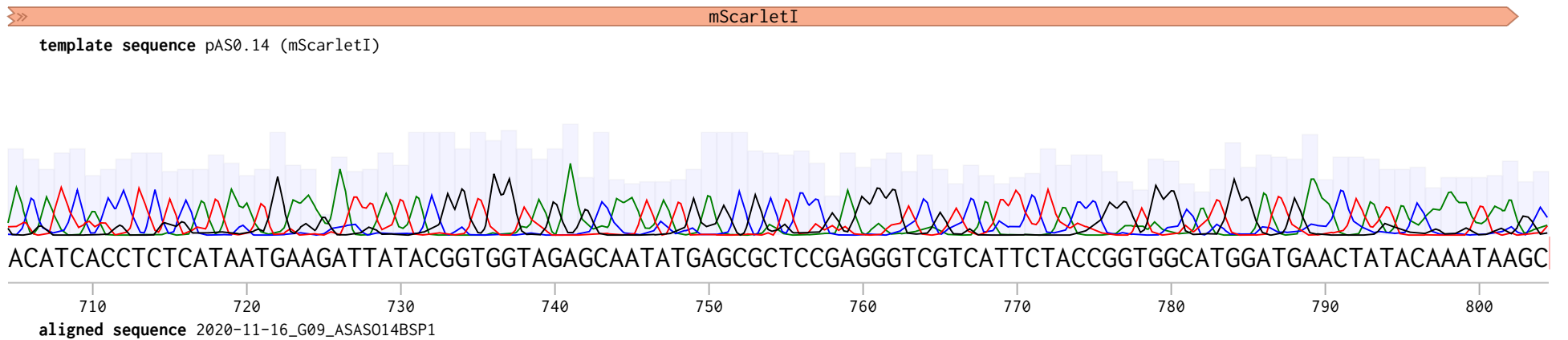
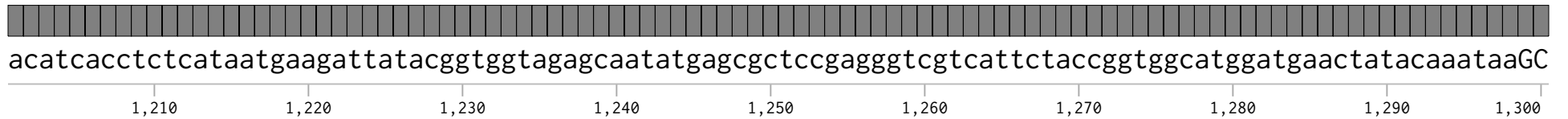
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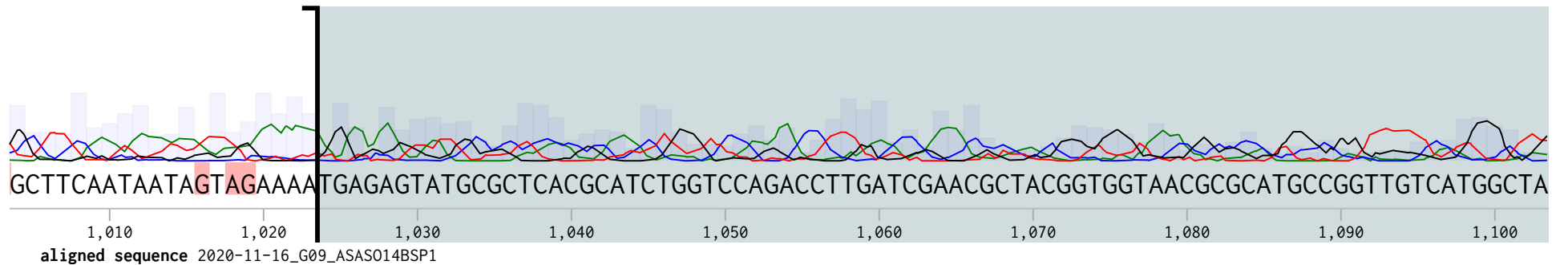
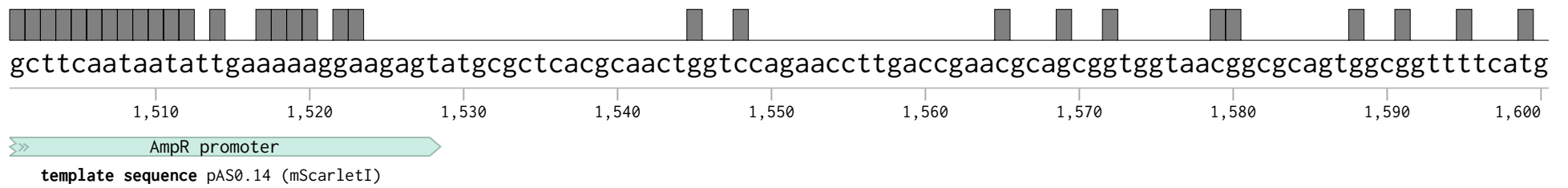
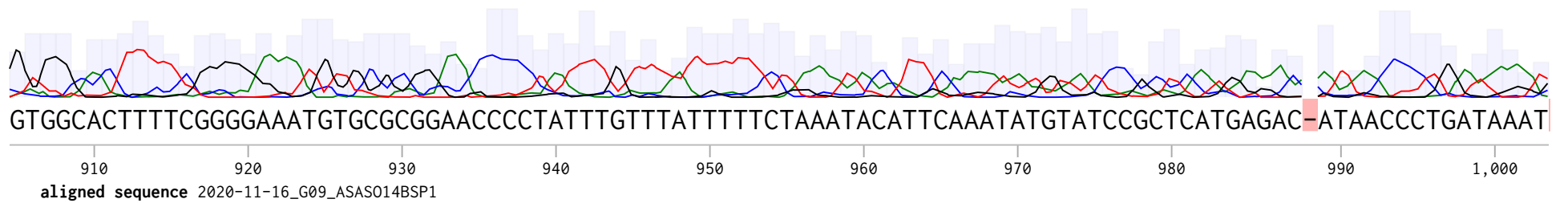
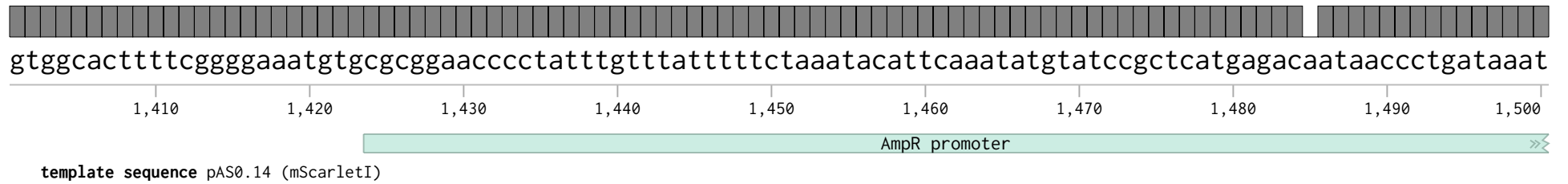
1,110 1,120 1,130 1,140 1,150 1,160 1,170 1,180 1,190 1,200

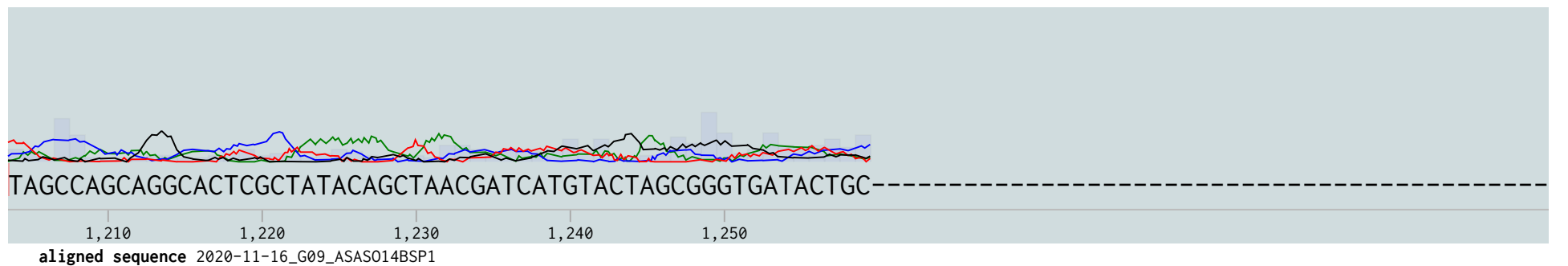
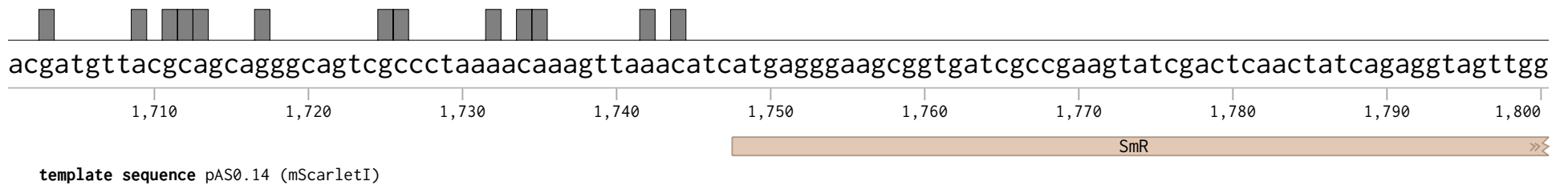
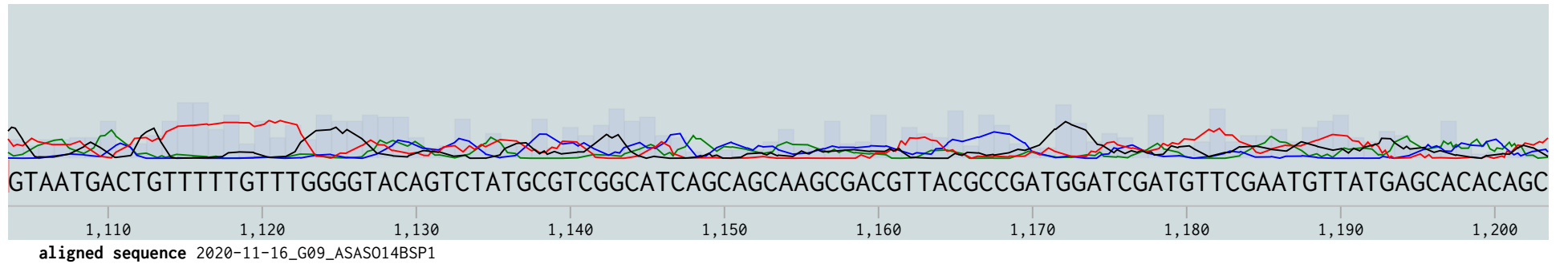
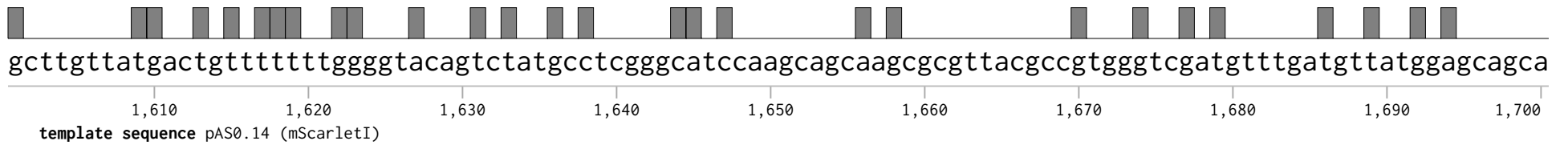
mScarletI

template sequence pAS0.14 (mScarletI)







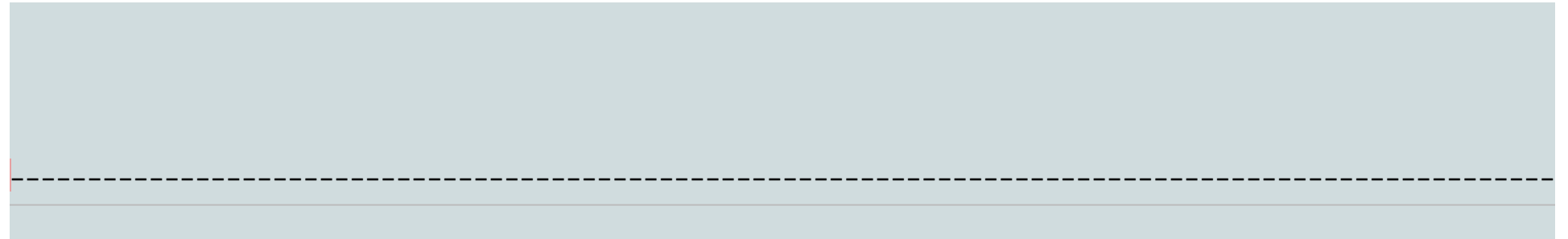


cgtcacgcgagcgccatctcgaaccgacgttgctggccgtacatttgctacggctccgcagtggatggcggcctgaagccacacagcgatattgatttgctg

1,810 1,820 1,830 1,840 1,850 1,860 1,870 1,880 1,890 1,900

>> SmR >>

template sequence pAS0.14 (mScarletI)



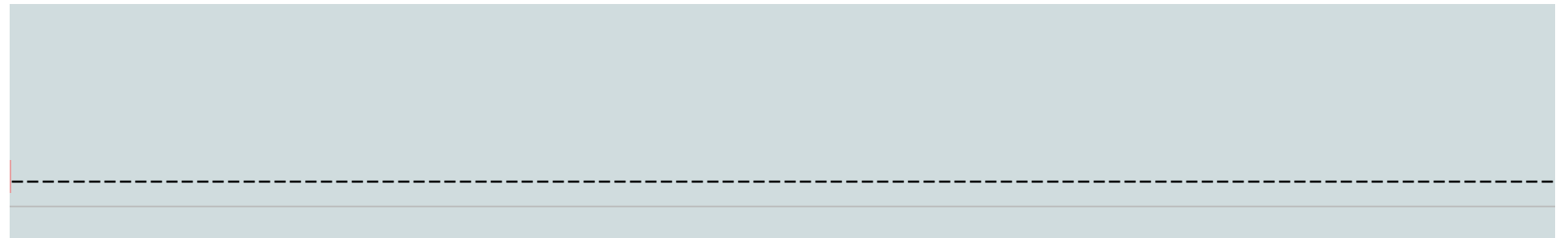
aligned sequence 2020-11-16_G09_ASAS014BSP1

gttacggtgaccgtaaggcttgatgaaacaacgcggcgagctttgatcaacgaccttttggaacttcggcttcccctggagagagcgagattctccgcg

1,910 1,920 1,930 1,940 1,950 1,960 1,970 1,980 1,990 2,000

>> SmR >>

template sequence pAS0.14 (mScarletI)



aligned sequence 2020-11-16_G09_ASAS014BSP1

ctgtagaagtcaccattgttgtgcacgacgacatcattccgtggcgttatccagctaagcgcggaactgcaatttggagaatggcagcgcaatgacattct

2,010

2,020

2,030

2,040

2,050

2,060

2,070

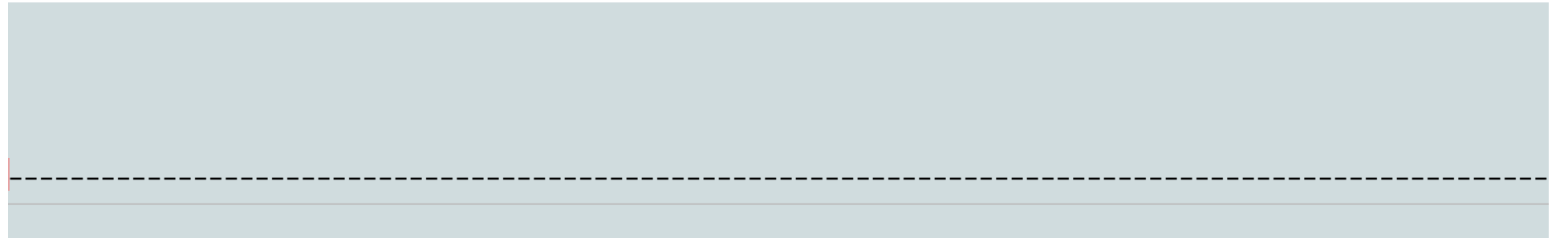
2,080

2,090

2,100

>> SmR >>

template sequence pAS0.14 (mScarletI)



aligned sequence 2020-11-16_G09_ASAS014BSP1

tgcaggatcttctgagccagccacgatcgacattgatctggctatcttgctgacaaaagcaagagaacatagcgttgccttggtaggtccagcggcgagg

2,110

2,120

2,130

2,140

2,150

2,160

2,170

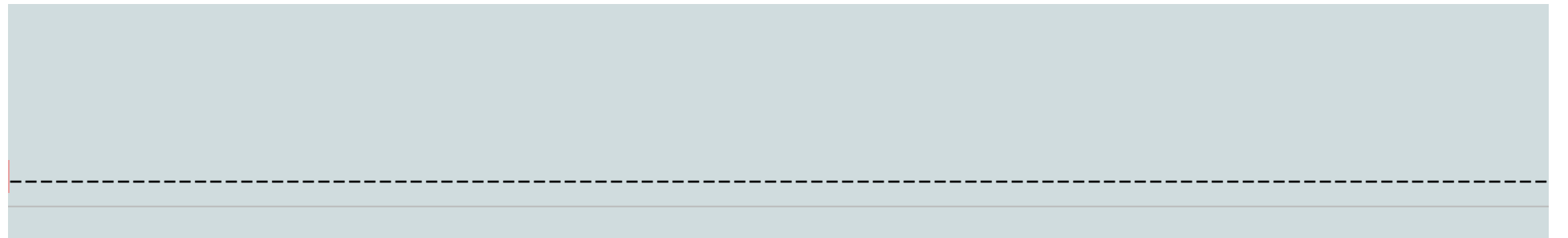
2,180

2,190

2,200

>> SmR >>

template sequence pAS0.14 (mScarletI)



aligned sequence 2020-11-16_G09_ASAS014BSP1

gaactctttgatccggttcctgaacaggatctatttgaggcgctaaatgaaaccttaacgctatggaactcgccgcccgactgggctggcgatgagcgaa

2,210 2,220 2,230 2,240 2,250 2,260 2,270 2,280 2,290 2,300

>> SmR >>

template sequence pAS0.14 (mScarletI)

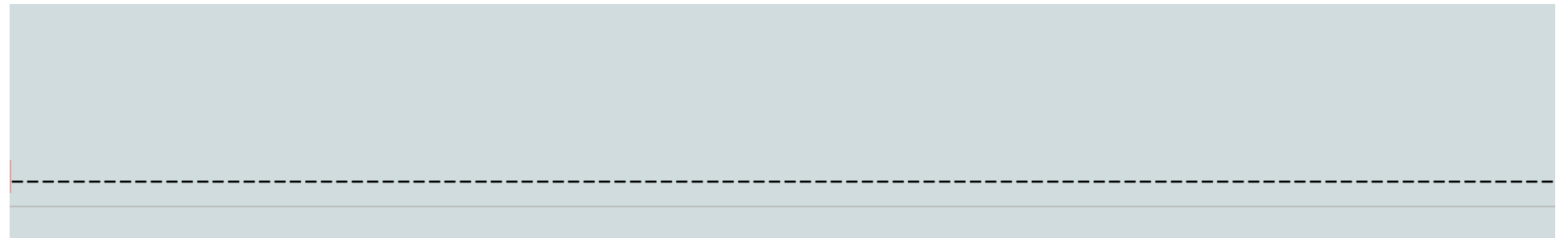


atgtagtgccttacgttgtcccgcatTTGGTACAGCGCAGTAACCGGCAAAATCGCGCCGAAGGATGTCGCTGCCGACTGGGCAATGGAGCGCCTGCCGGC

2,310 2,320 2,330 2,340 2,350 2,360 2,370 2,380 2,390 2,400

>> SmR >>

template sequence pAS0.14 (mScarletI)



ccagtatcagcccgtcatacttgaagctagacaggcttatcttggacaagaagaagatcgcttggcctcgcgcgcagatcagttggaagaatttgtccat

2,410

2,420

2,430

2,440

2,450

2,460

2,470

2,480

2,490

2,500

SmR

template sequence pAS0.14 (mScarletI)



tacgtaaaaggcgagatcaccaaggtagtcggcaaataactgtcagaccaagtttactcatatatactttagattgatttaaaacttcatttttaattta

2,510

2,520

2,530

2,540

2,550

2,560

2,570

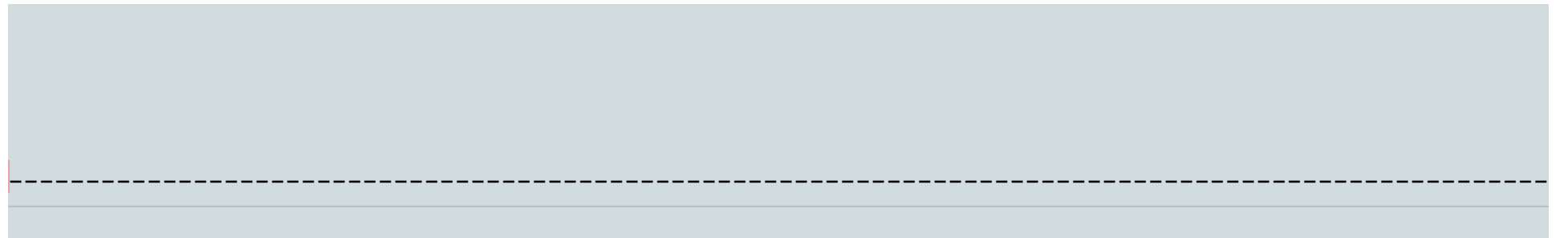
2,580

2,590

2,600

SmR

template sequence pAS0.14 (mScarletI)



aaaggatctaggtgaagatcctttttgataatctcatgacaaaaatcccttaacgtgagttttcgttccactgagcgtcagaccccgtagaaaagatcaa

2,610 2,620 2,630 2,640 2,650 2,660 2,670 2,680 2,690 2,700

ColE1 origin

template sequence pAS0.14 (mScarletI)

aligned sequence 2020-11-16_G09_ASAS014BSP1

aggatcttcttgagatccttttttctgcgcgtaatctgctgcttgcaacaaaaaaaccaccgctaccagcgggtggtttgttgccggatcaagagcta

2,710 2,720 2,730 2,740 2,750 2,760 2,770 2,780 2,790 2,800

ori

ColE1 origin

template sequence pAS0.14 (mScarletI)

aligned sequence 2020-11-16_G09_ASAS014BSP1

ccaactcttttccgaaggtaactggcttcagcagagcgcagataccaaatactgtccttctagtgtagccgtagttaggccaccacttcaagaactctg

2,810

2,820

2,830

2,840

2,850

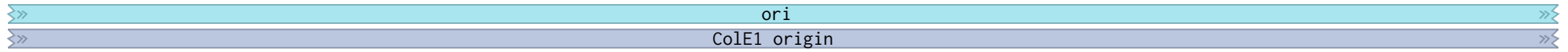
2,860

2,870

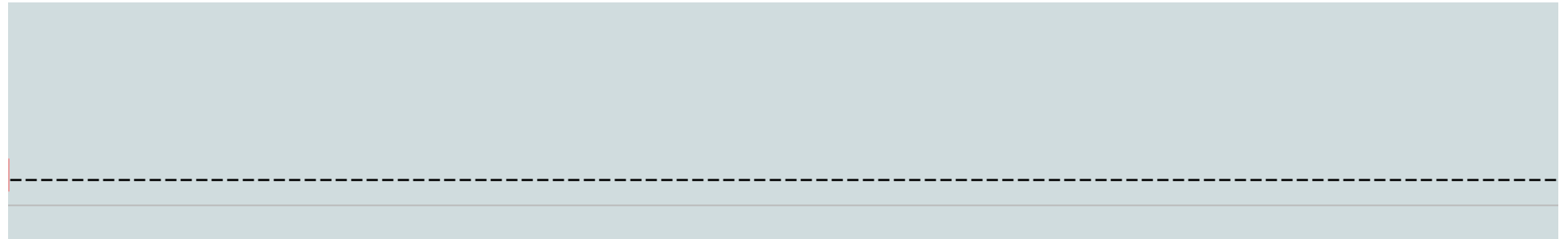
2,880

2,890

2,900



template sequence pAS0.14 (mScarletI)



aligned sequence 2020-11-16_G09_ASAS014BSP1

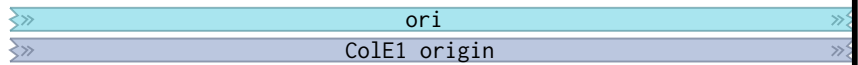
tagcaccgcctacatacctcgctctgctaatacctgttaccagtg

2,910

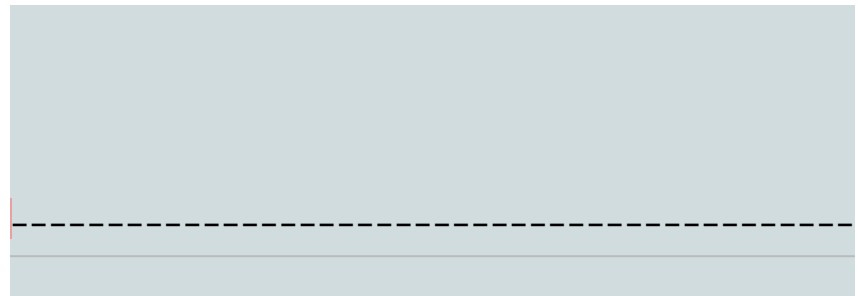
2,920

2,930

2,940



template sequence pAS0.14 (mScarletI)



aligned sequence 2020-11-16_G09_ASAS014BSP1