

Template Alignment: 2020-11-19_B10_ASAS111BSP3

gacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactcaccagtcacagaaaagcatcttacggatggcatga

10 20 30 40 50 60 70 80 90 100

AmpR

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

cagtaagagaattatgcagtgctgccataaccatgagtgataacactgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttt

110 120 130 140 150 160 170 180 190 200

AmpR

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

tttgacaacatgggggatcatgtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgta

210

220

230

240

250

260

270

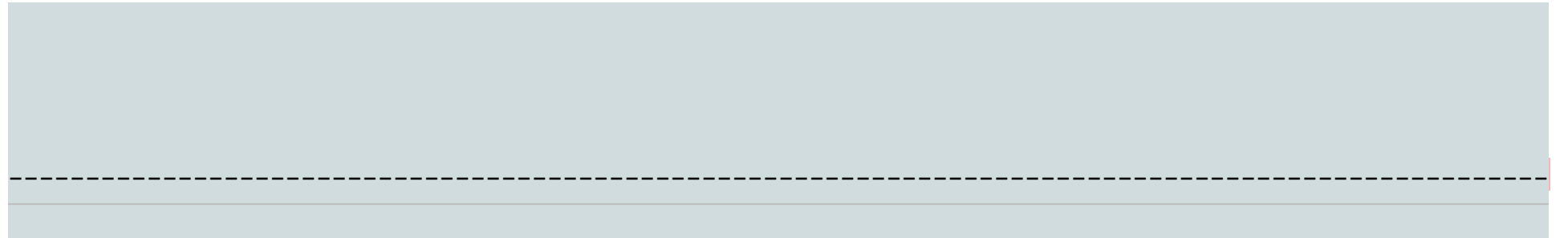
280

290

300

>> AmpR >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

gcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatagactggatggaggcggataaagttagcag

310

320

330

340

350

360

370

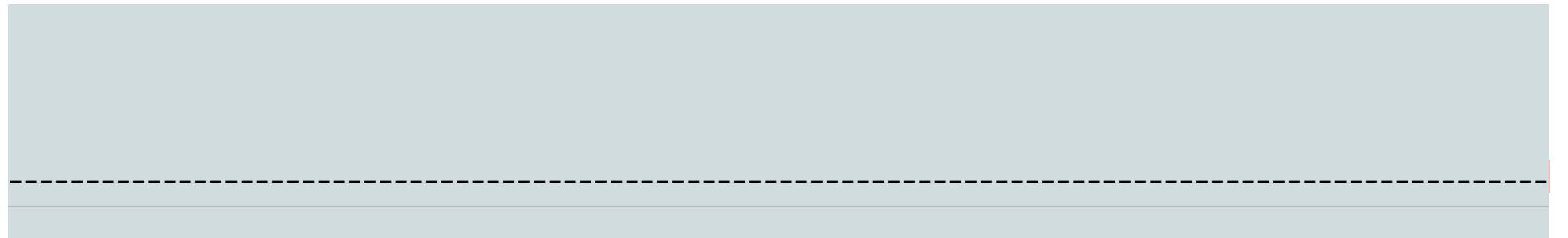
380

390

400

>> AmpR >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

gaccacttctgcgctcggcccttccggctggctgggtttattgctgataaatctggagccggtgagcgtggttctcgcggtatcattgcagcactggggcc

410

420

430

440

450

460

470

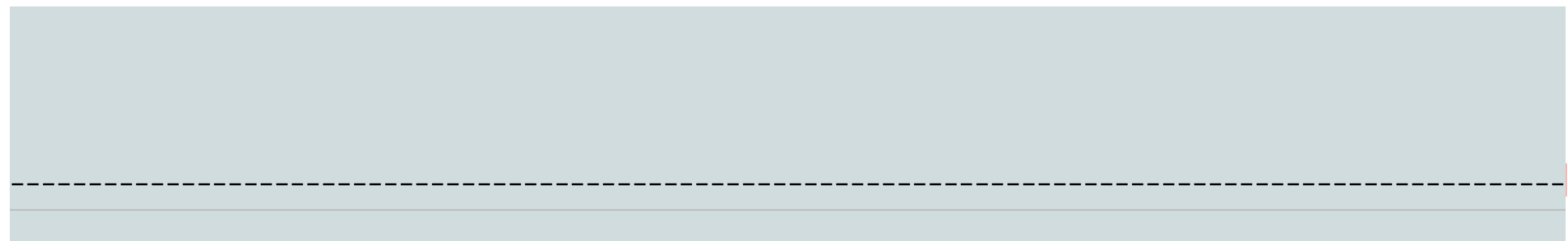
480

490

500

>> AmpR >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

agatggtaagccctcccgtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactg

510

520

530

540

550

560

570

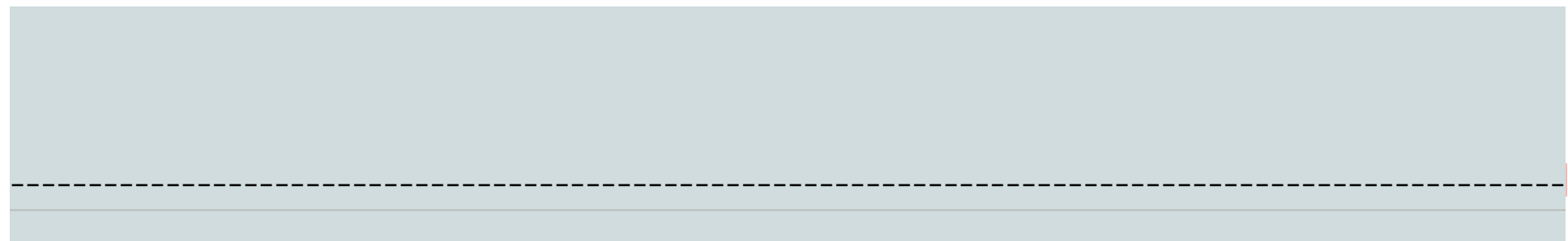
580

590

600

>> AmpR >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

attaagcattggtactgtcagaccaagttactcatatatacttttagatttgatttaaaacttcatttttaatttaaaggatctaggtgaagatccttt

610

620

630

640

650

660

670

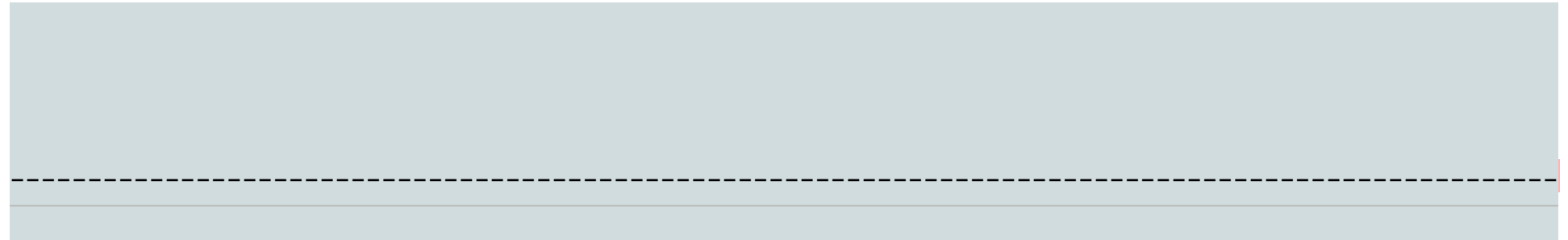
680

690

700

>> AmpR

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

ttgataatctcatgacaaaaatcccttaacgtgagttttcgttccactgagcgtcagaccccgtagaaaagatcaaaggatcttcttgagatcctttttt

710

720

730

740

750

760

770

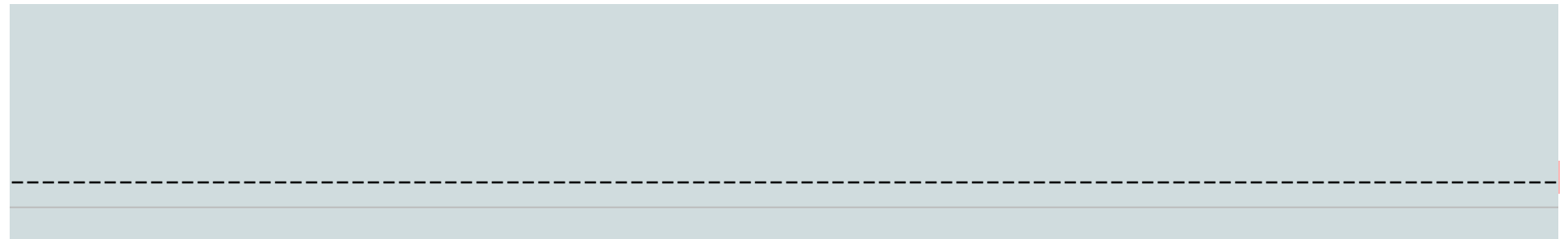
780

790

800

ori >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



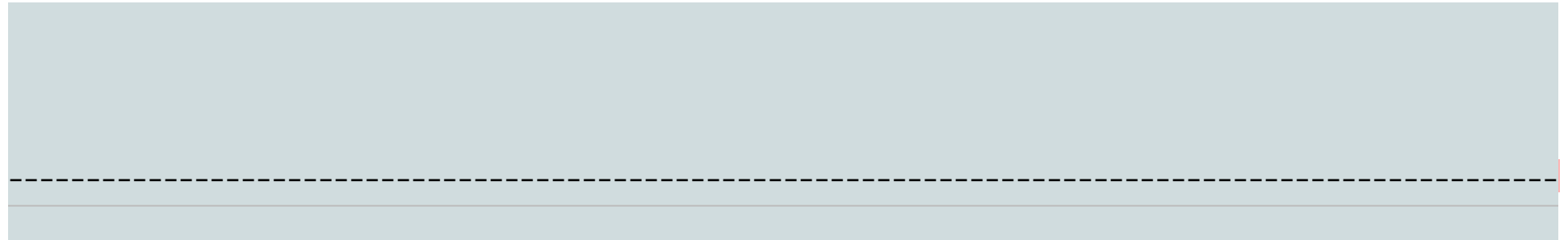
aligned sequence 2020-11-19_B10_ASAS111BSP3

tctgcgcgtaatctgctgcttgcaacaaaaaaaccaccgctaccagcggtggtttggttgccggatcaagagctaccaactctttttccgaaggtaact

810 820 830 840 850 860 870 880 890 900

>> ori >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



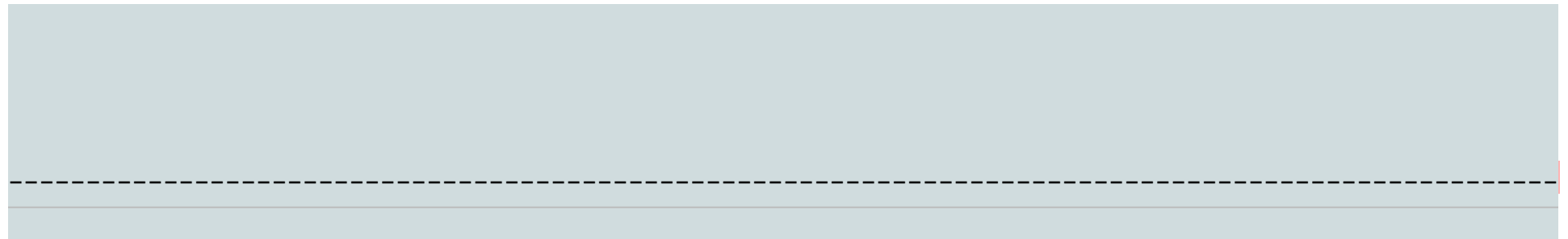
aligned sequence 2020-11-19_B10_ASAS111BSP3

ggcttcagcagagcgcagataccaaatactgtccttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcctacatacctcgctc

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

>> ori >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

tgctaatcctgttaccagtggctgctgccagtgggcgataagtcgtgtcttaccgggttggaactcaagacgatagttaccggataaggcgcagcggtcggg

1,010

1,020

1,030

1,040

1,050

1,060

1,070

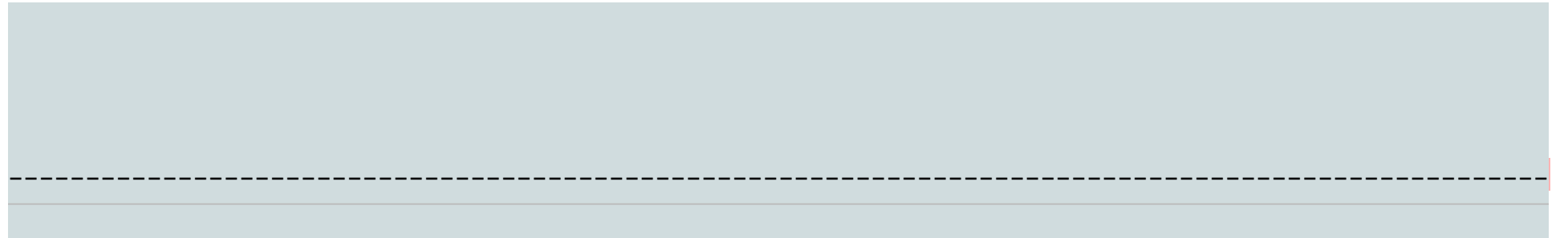
1,080

1,090

1,100

ori

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

ctgaacgggggggttcgtgcacacagcccagcttggagcgaacgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttccc

1,110

1,120

1,130

1,140

1,150

1,160

1,170

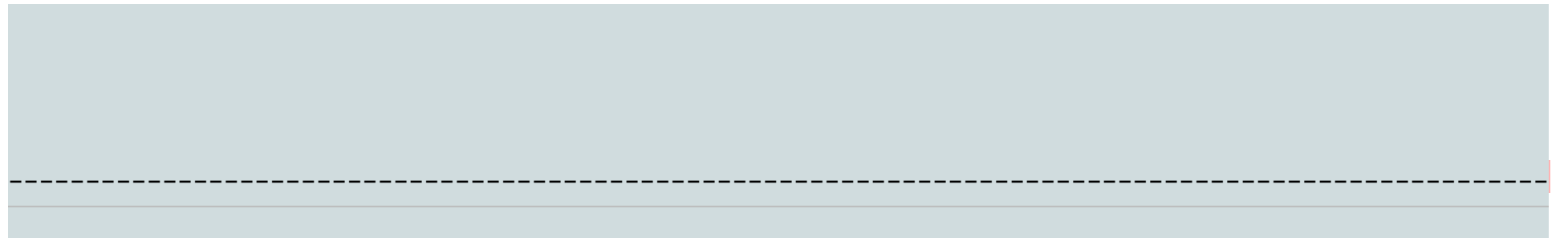
1,180

1,190

1,200

ori

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

gaagggagaaaggcggacaggtatccggttaagcggcagggtcggaacaggagagcgcacgaggagcttccaggggaaacgcctggtatctttatagtc

1,210

1,220

1,230

1,240

1,250

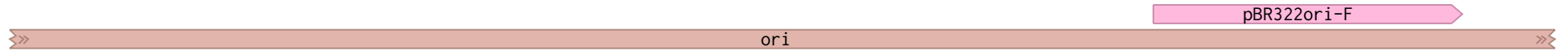
1,260

1,270

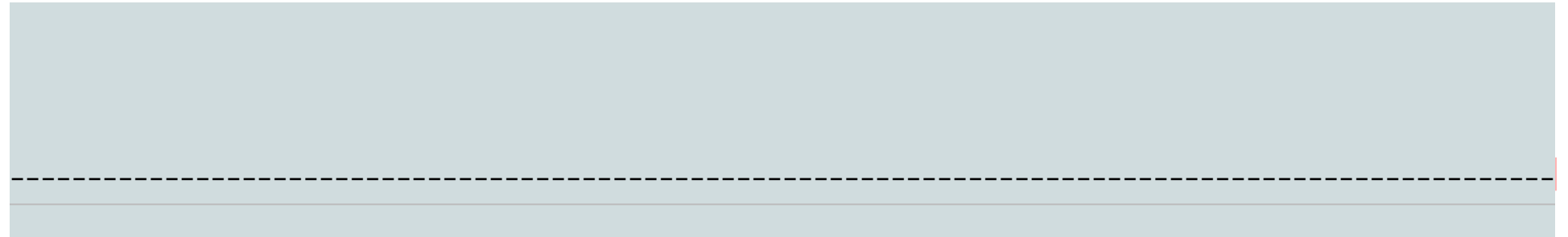
1,280

1,290

1,300



template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

ctgtcgggtttcgccacctctgacttgagcgtcgatTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACG

1,310

1,320

1,330

1,340

1,350

1,360

1,370

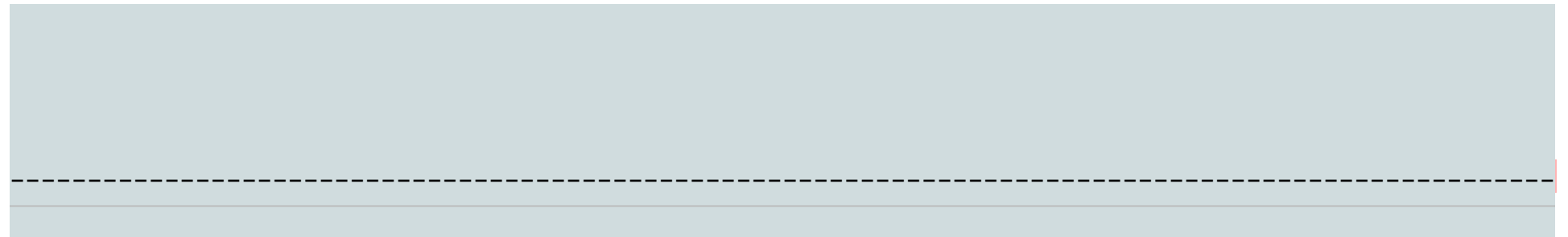
1,380

1,390

1,400



template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

gttcctggcagatcctagatgtggcgcaacgatgccggcgacaagcaggagcgaccgacttcttccgcatcaagtgttttggctctcaggccgaggccc

1,410 1,420 1,430 1,440 1,450 1,460 1,470 1,480 1,490 1,500
template sequence pAS1.11 (PprqA-eYFP-TclpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

acggcaagtatttgggcaaggggtcgctggtattcgtgcagggcaagattcggaataccaagtacgagaaggacggccagacggtctacgggaccgactt

1,510 1,520 1,530 1,540 1,550 1,560 1,570 1,580 1,590 1,600
template sequence pAS1.11 (PprqA-eYFP-TclpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

cattgccgataaggtggattatctggacaccaaggcaccaggcggtcaaataagggcacattgccccggcgtgagtcggggcaatcccgcaa

1,610 1,620 1,630 1,640 1,650 1,660 1,670 1,680 1,690 1,700
template sequence pAS1.11 (PprqA-eYFP-TclpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

ggagggtgaatgaatcggacgtttgaccggaaggcatacaggcaagaactgatcgacgcgggggttttccgccgaggatgccgaaaccatcgcaagccgca

1,710 1,720 1,730 1,740 1,750 1,760 1,770 1,780 1,790 1,800
trfA
template sequence pAS1.11 (PprqA-eYFP-TclpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

ccgtcatgcgtagcgccccgcgaaaccttccagtcggtcggtcgatgggtccagcaagctacggccaagatcgagcgcgacagcgtgcaactggctcccc

1,810

1,820

1,830

1,840

1,850

1,860

1,870

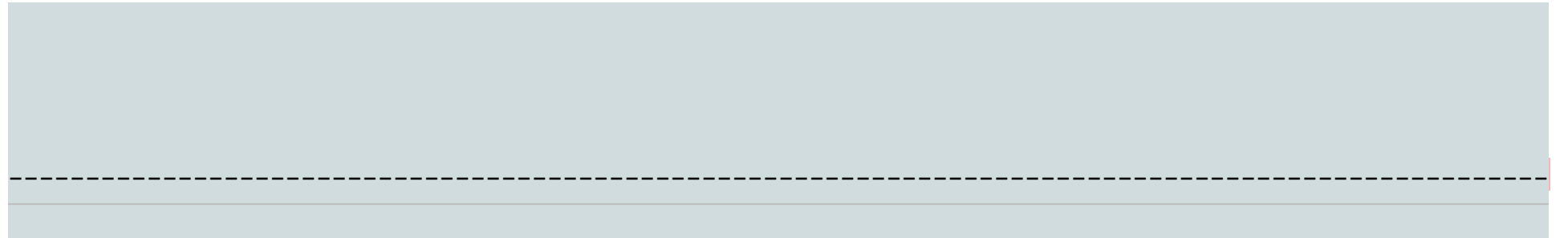
1,880

1,890

1,900

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

tgccctgcccgcgccatcgggccgctggagcggttcgctcgtcttgaacaggaggcggcaggtttggcgaagtcgatgaccatcgacacgcgaggaact

1,910

1,920

1,930

1,940

1,950

1,960

1,970

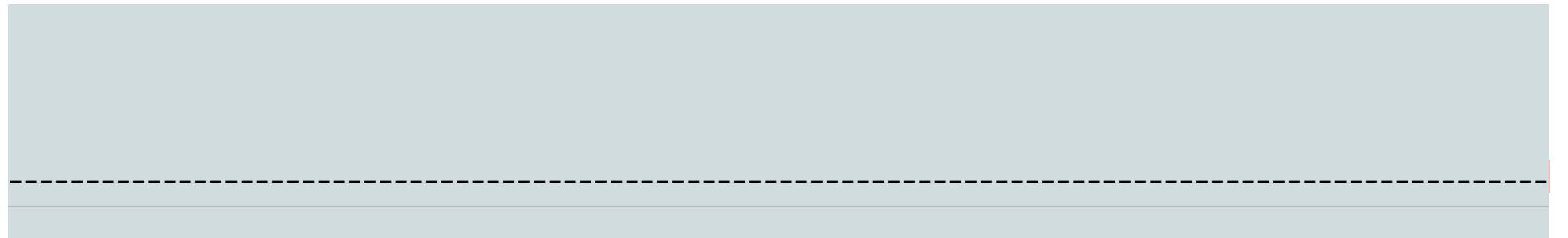
1,980

1,990

2,000

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

atgacgaccaagaagcgaaaaacgccggcgaggacctggcaaaacaggtcagcgaggccaagcaggccgcgttgctgaaacacacgaagcagcagatca

2,010

2,020

2,030

2,040

2,050

2,060

2,070

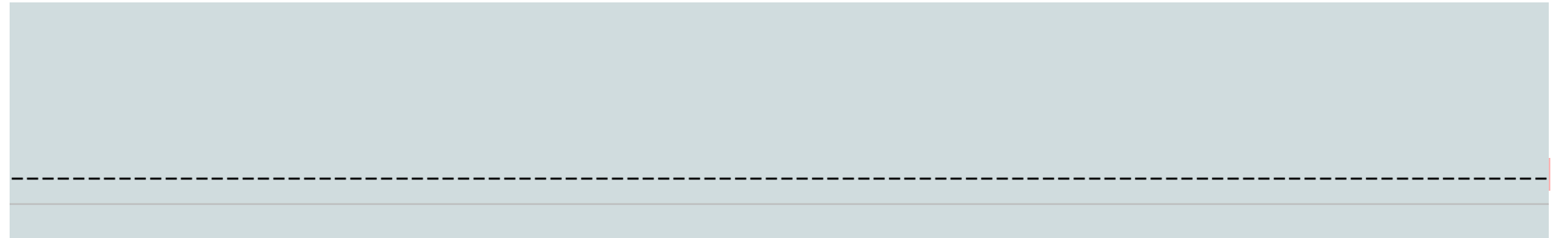
2,080

2,090

2,100

» trfA »

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

aggaaatgcagctttccttgttcgatattgcgccgtggccggacacgatgcgagcgatgccaaacgacacggcccgcctctgccctgttcaccacgcgcaa

2,110

2,120

2,130

2,140

2,150

2,160

2,170

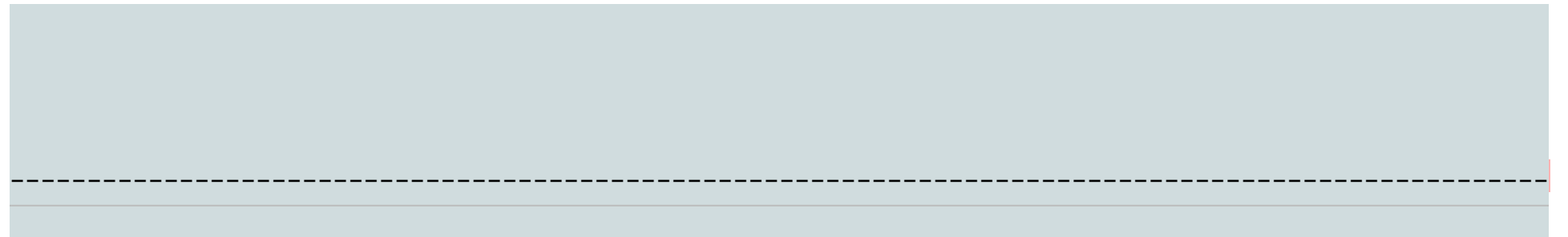
2,180

2,190

2,200

» trfA »

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

caagaaaatcccgcgcgaggcgctgcaaaacaaggtcattttccacgtcaacaaggacgtgaagatcacctacaccggcgctcgagctgcgggccgacgat

2,210

2,220

2,230

2,240

2,250

2,260

2,270

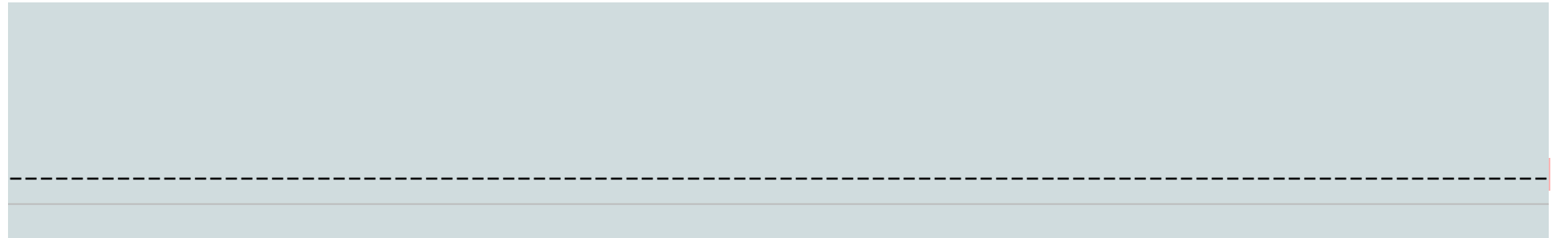
2,280

2,290

2,300

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

gacgaactggtgtggcagcaggtgttgagtagcggaagcgccacccctatcggcgagccgatcaccttcacgttctacgagctttgccaggacctgggct

2,310

2,320

2,330

2,340

2,350

2,360

2,370

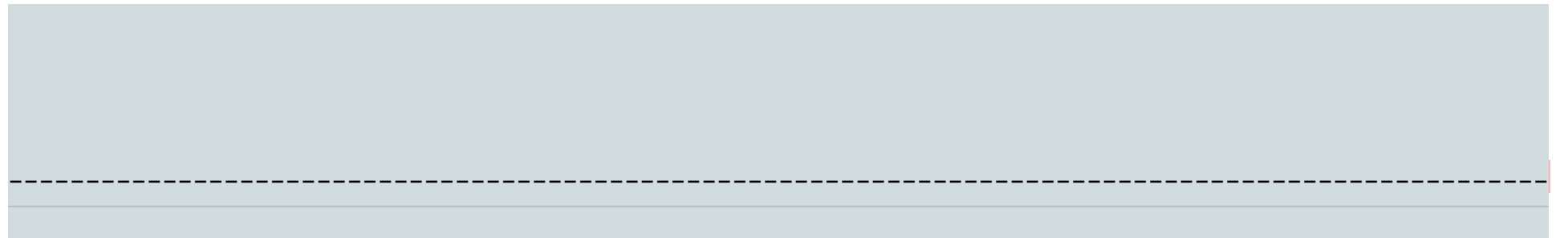
2,380

2,390

2,400

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

ggtcgatcaatggccggtattacacgaaggccgaggaatgcctgtcgcgcctacaggcgacggcgatgggcttcacgtccgaccgcgttgggcacctgga

2,410

2,420

2,430

2,440

2,450

2,460

2,470

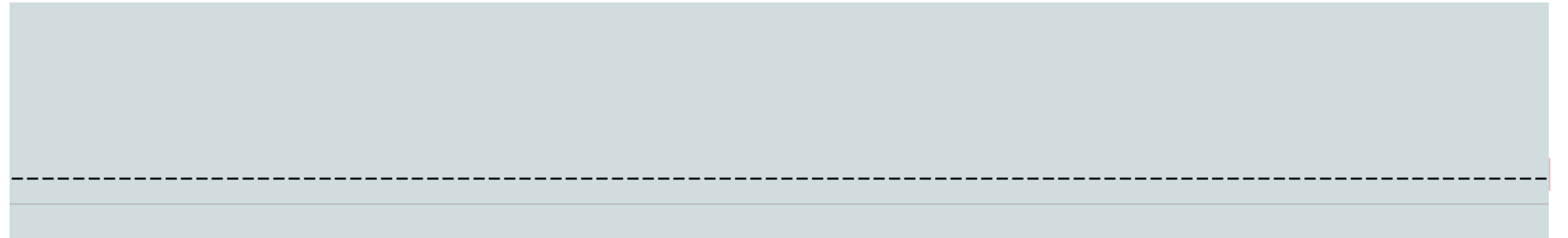
2,480

2,490

2,500

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

atcgggtgctgctgctgcaccgcttccgcgtcctggaccgtggcaagaaaacgtcccgttgccaggctcctgatcgacgaggaaatcgctcgtgctgtttgct

2,510

2,520

2,530

2,540

2,550

2,560

2,570

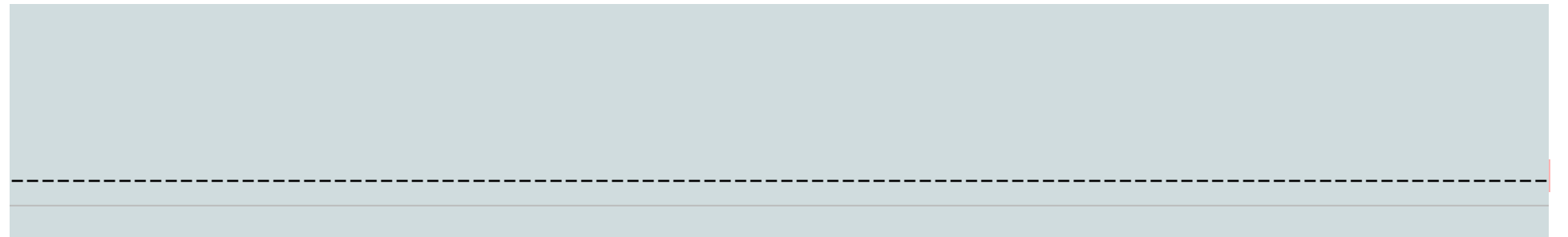
2,580

2,590

2,600

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

ggcgaccactacacgaaattcatatgggagaagtaccgcaagctgtcgccgacggcccgcgatgttcgactatctcagctcgcaccgggagccgtacc

2,610

2,620

2,630

2,640

2,650

2,660

2,670

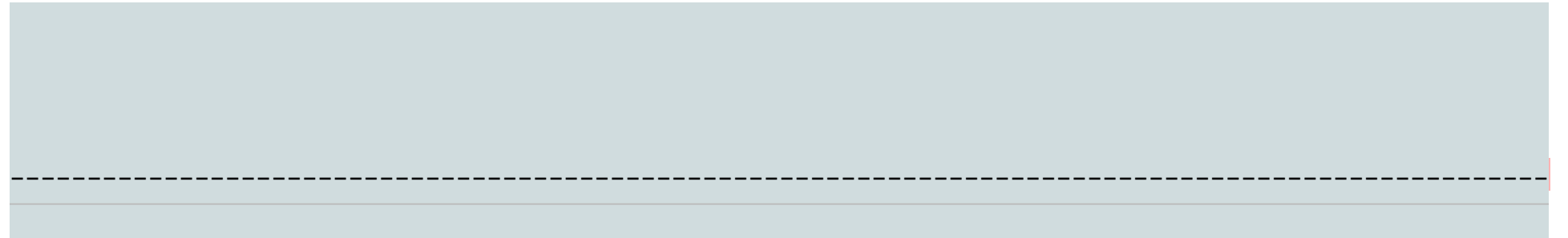
2,680

2,690

2,700

>> trfA >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

cgctcaagctggaaaccttccgcctcatgtgcggatcggattccacccgcgtgaagaagtggcgcgagcaggtcggcgaagcctgcgaagagttgcgagg

2,710

2,720

2,730

2,740

2,750

2,760

2,770

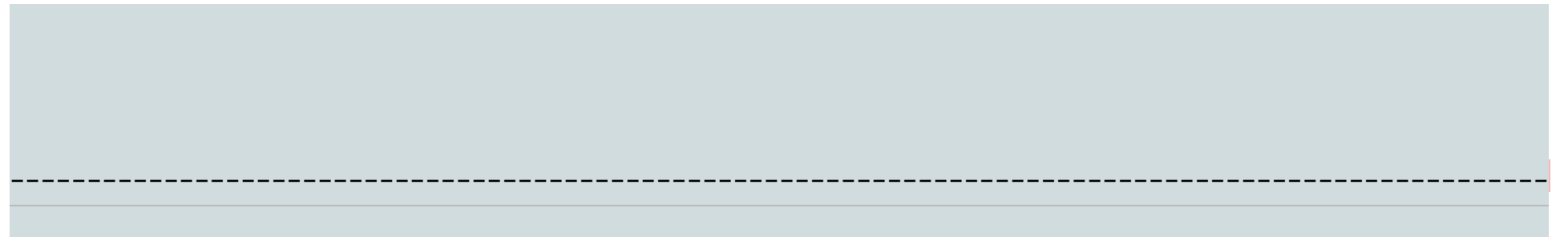
2,780

2,790

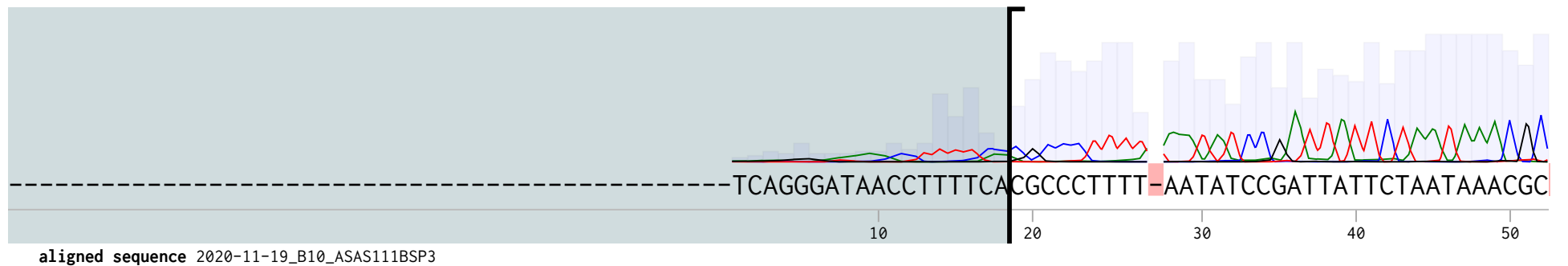
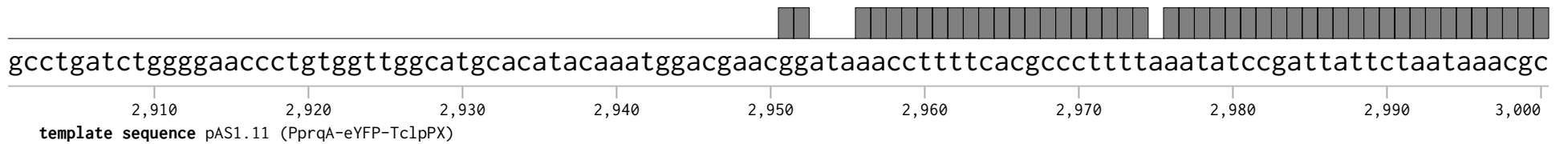
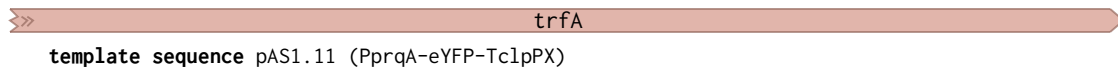
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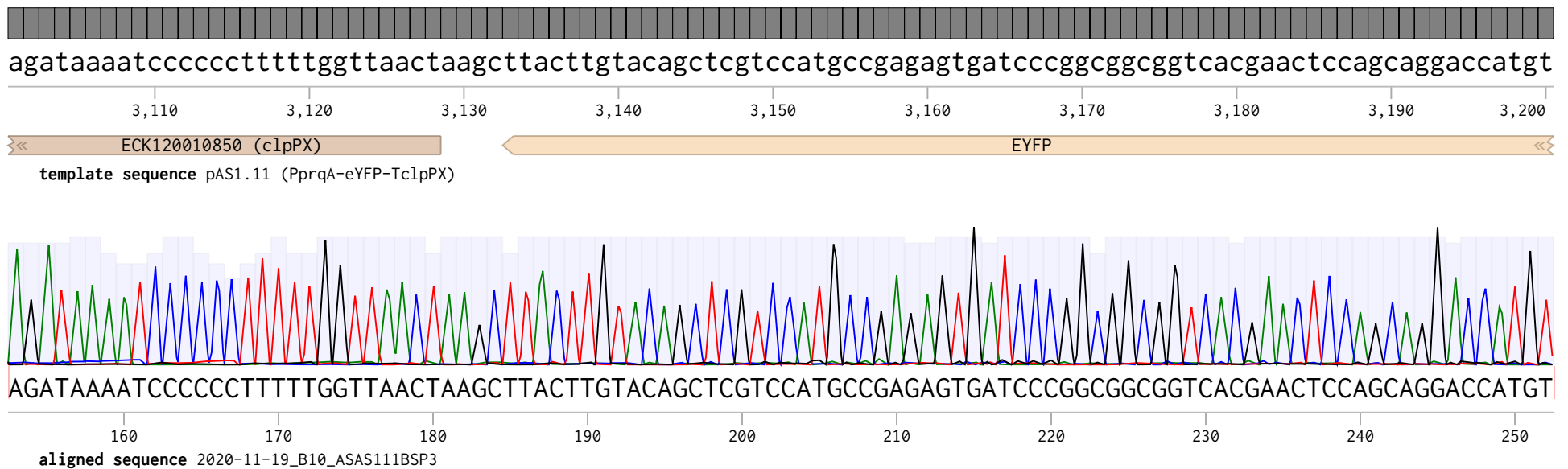
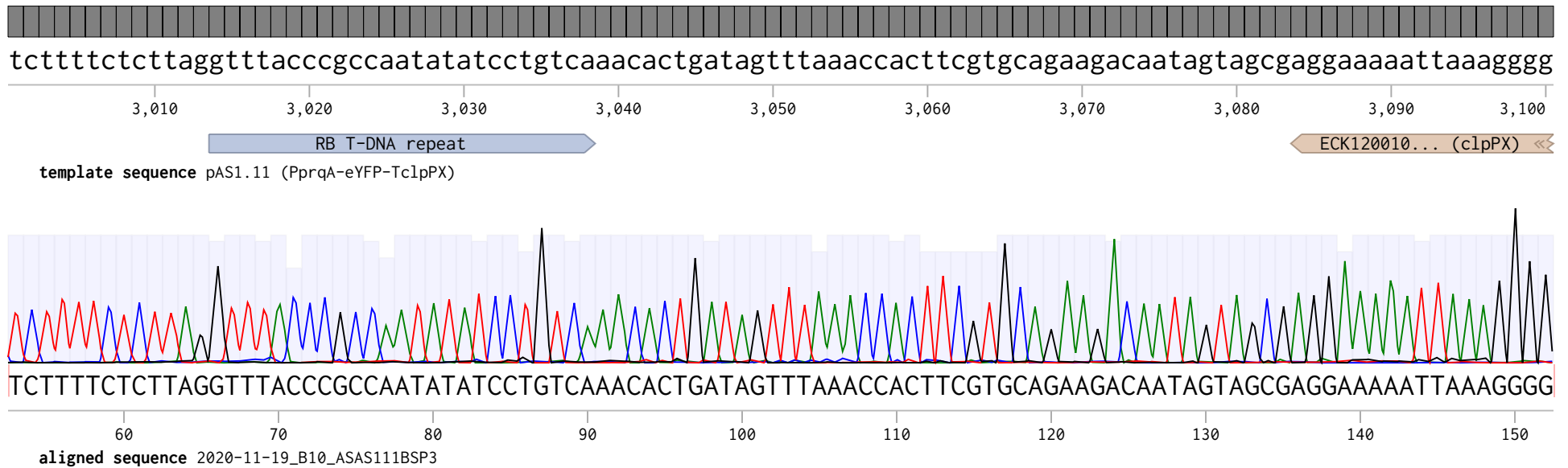
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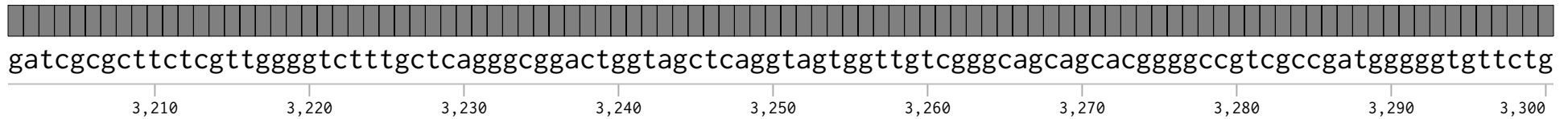
template sequence pAS1.11 (PprqA-eYFP-TclpPX)



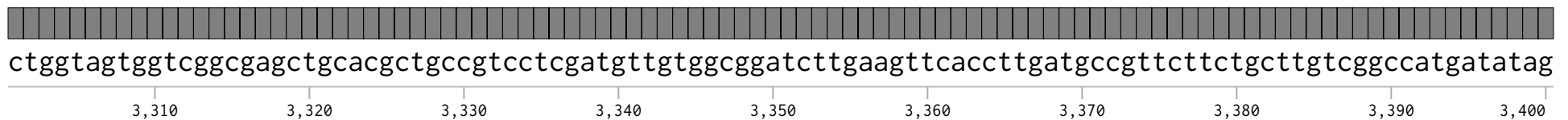
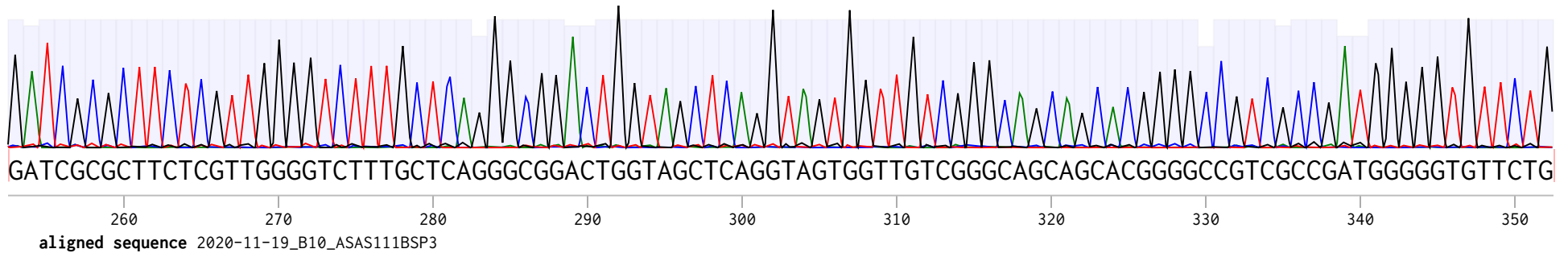
aligned sequence 2020-11-19_B10_ASAS111BSP3



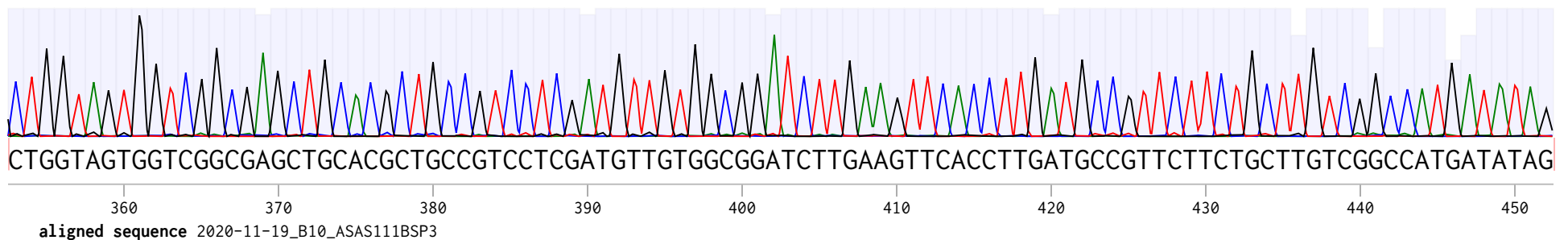


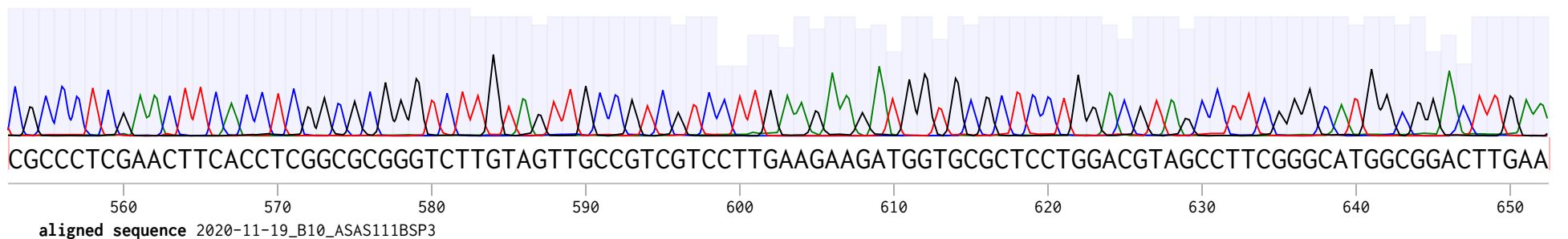
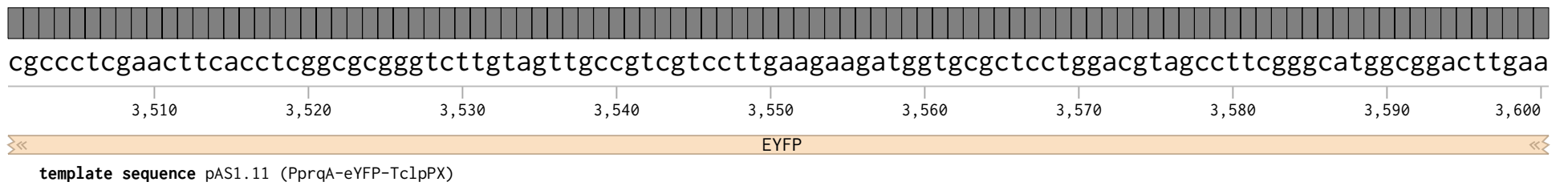
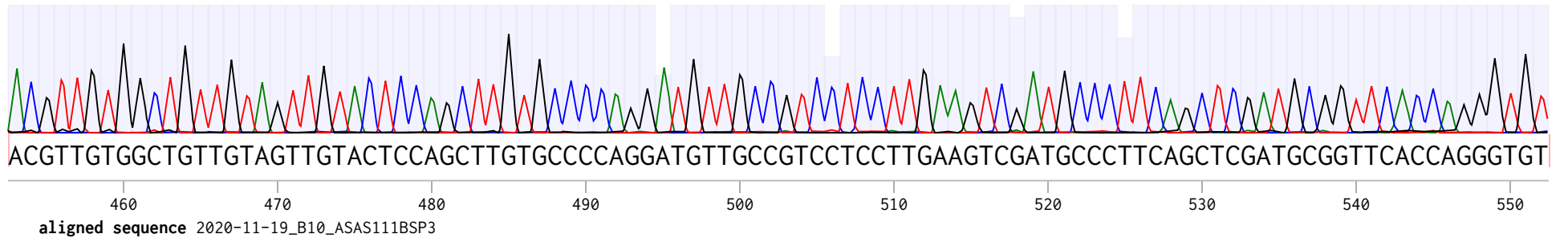
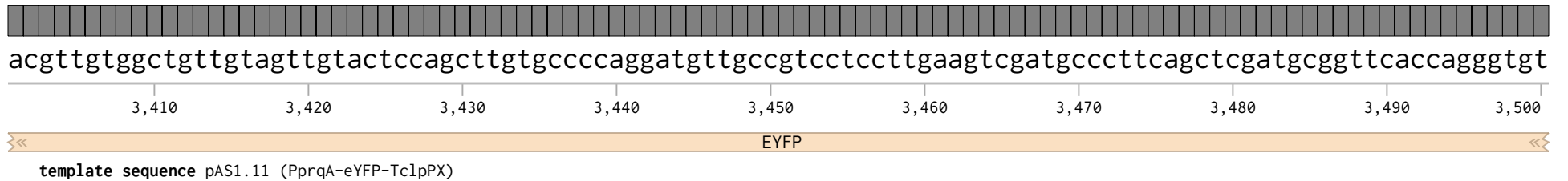


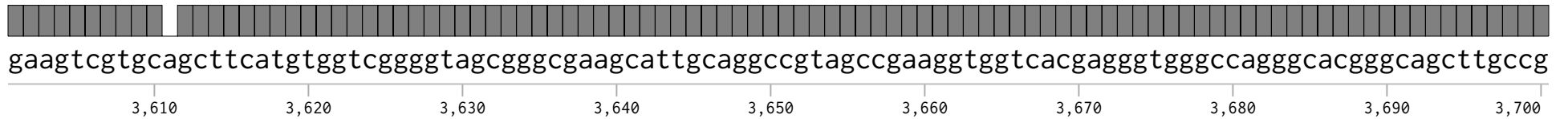
template sequence pAS1.11 (PprqA-eYFP-TclpPX)



template sequence pAS1.11 (PprqA-eYFP-TclpPX)

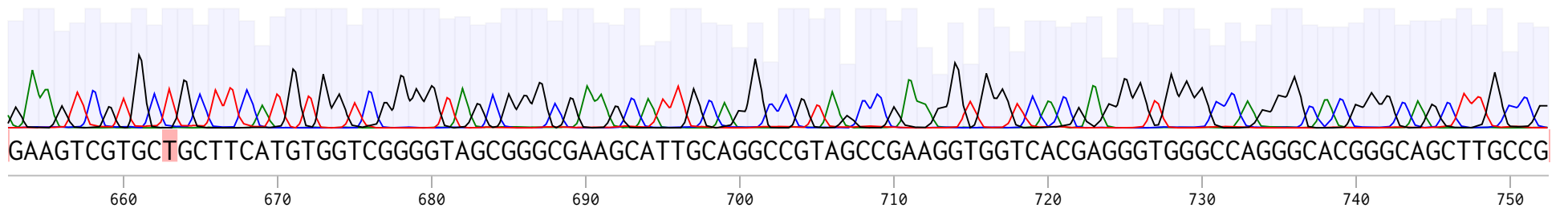




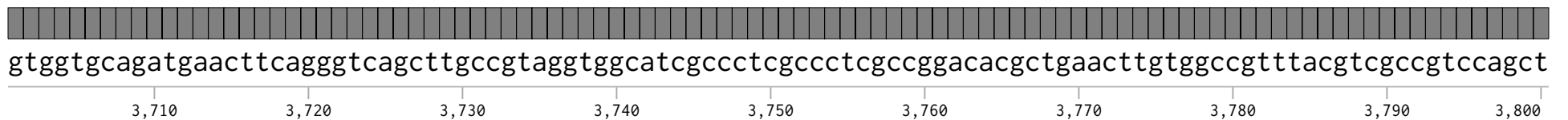


« EYFP »

template sequence pAS1.1 (PprqA-eYFP-TclpPX)

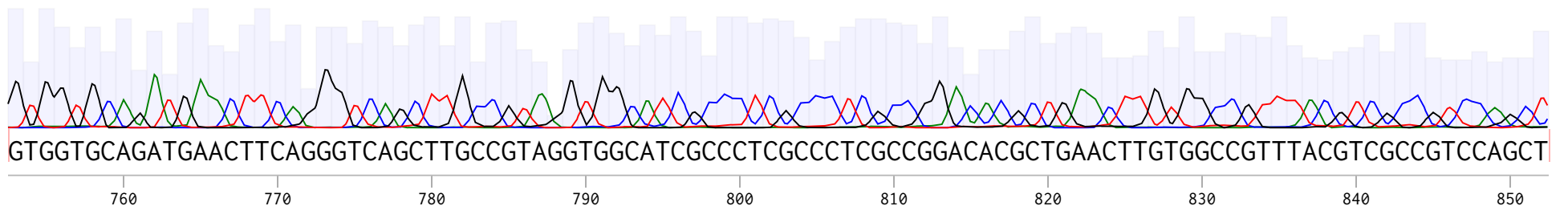


aligned sequence 2020-11-19_B10_ASAS111BSP3

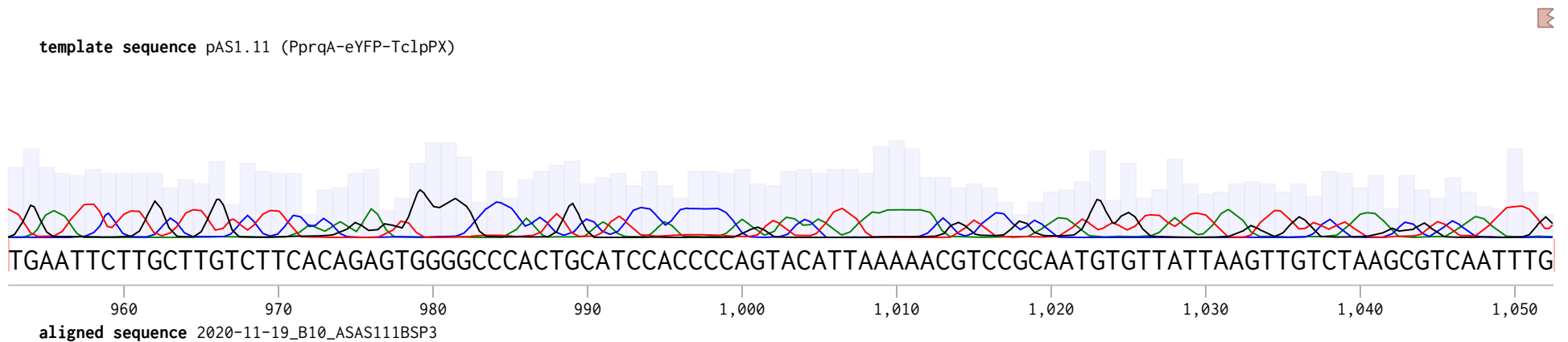
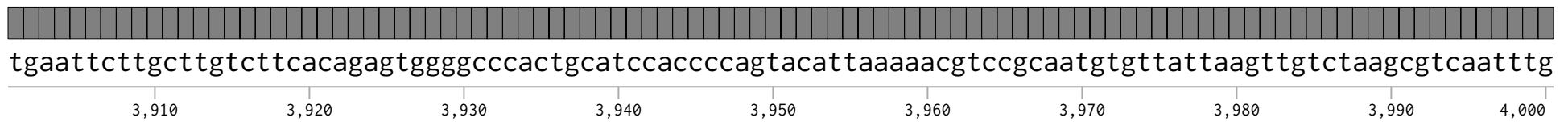
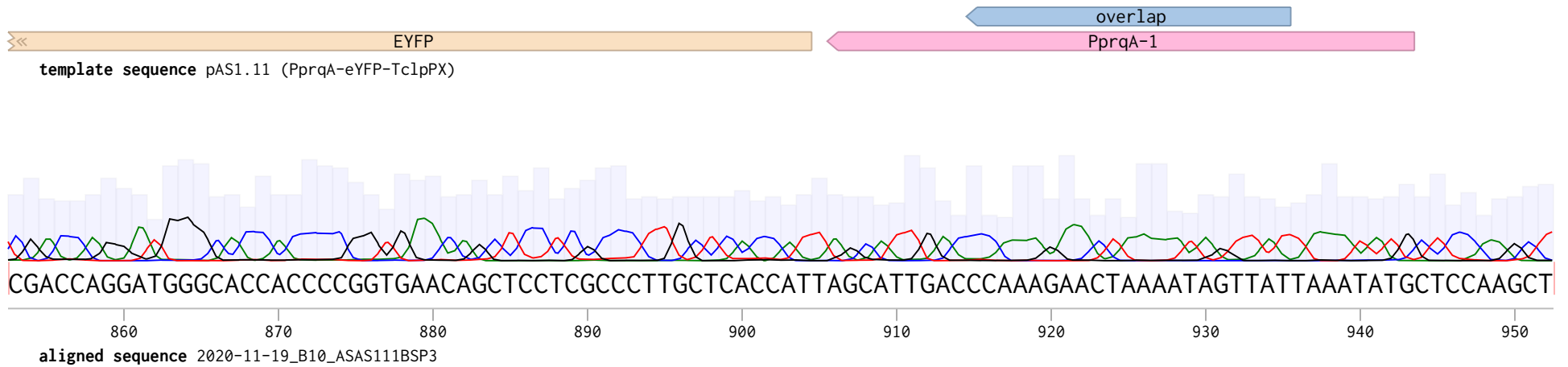
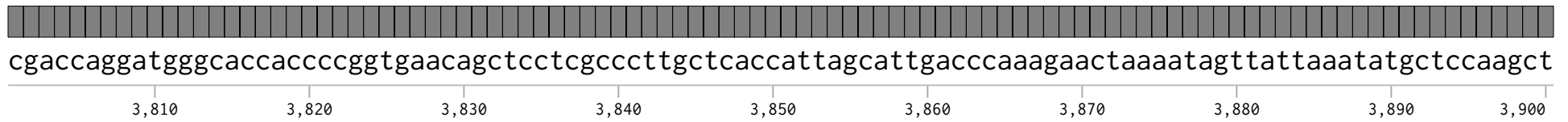


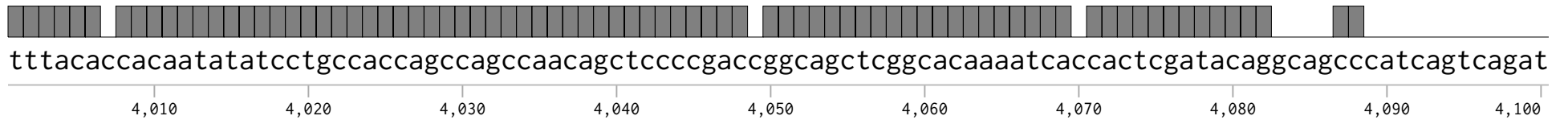
« EYFP »

template sequence pAS1.1 (PprqA-eYFP-TclpPX)



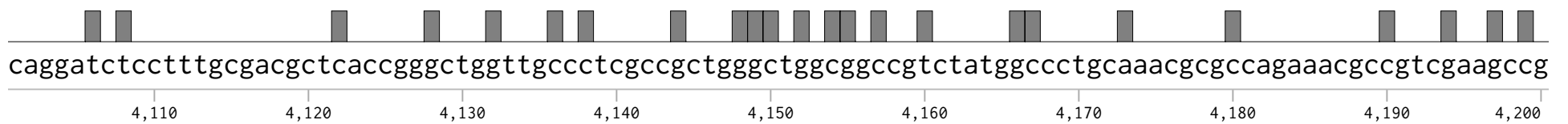
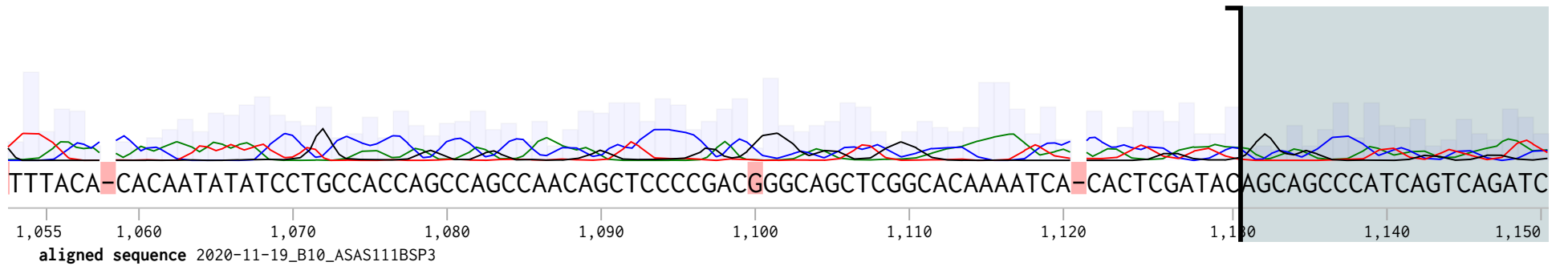
aligned sequence 2020-11-19_B10_ASAS111BSP3





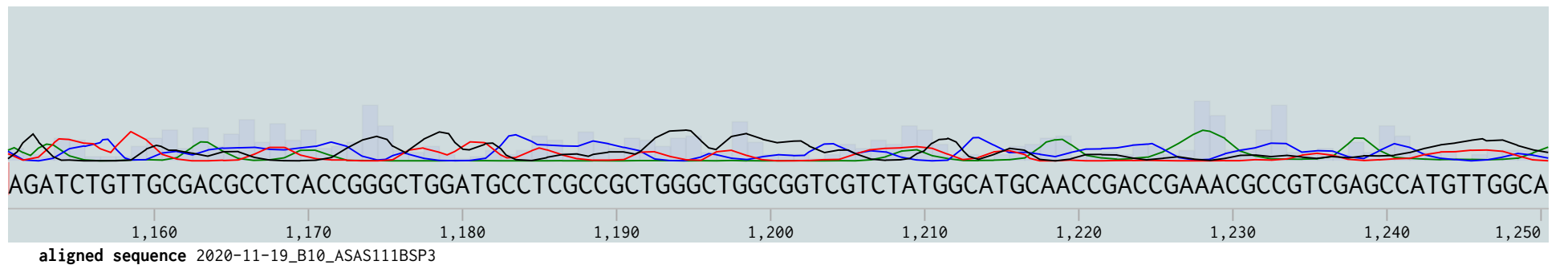
» LB T-DNA repeat

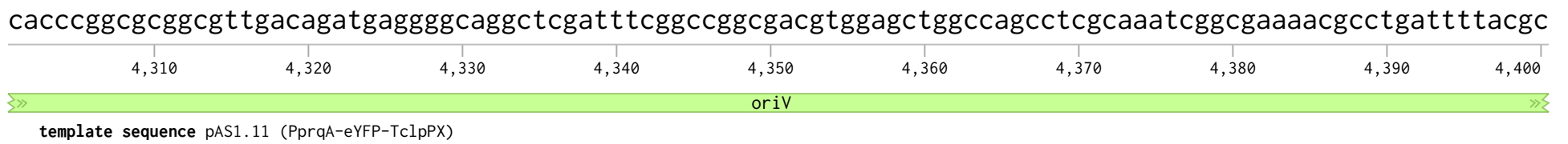
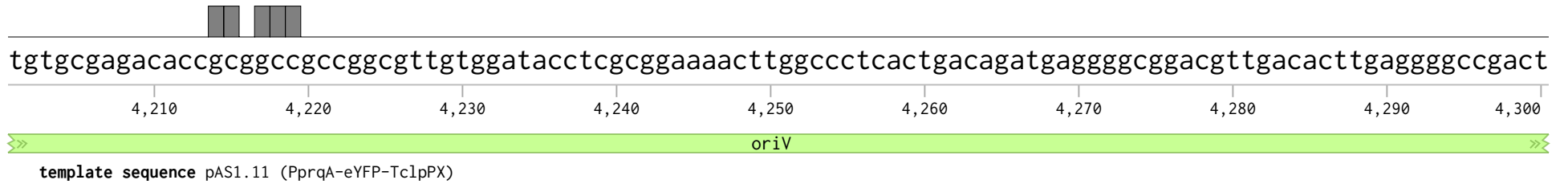
template sequence pAS1.11 (PprqA-eYFP-TcIpPX)



oriV

template sequence pAS1.11 (PprqA-eYFP-TcIpPX)





gagtttccacagatgatgtggacaagcctgggggataagtgccctgcggtattgacacttgaggggcgcgactactgacagatgagggggcgcgatccttg

4,410

4,420

4,430

4,440

4,450

4,460

4,470

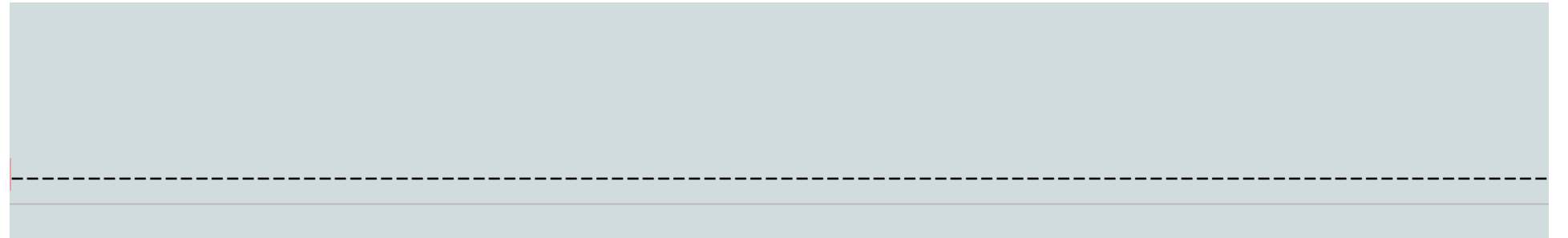
4,480

4,490

4,500

>> oriV >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

acacttgaggggcagagtgctgacagatgaggggcgcacctattgacatttgaggggctgtccacaggcagaaaatccagcatttgcaagggtttccgcc

4,510

4,520

4,530

4,540

4,550

4,560

4,570

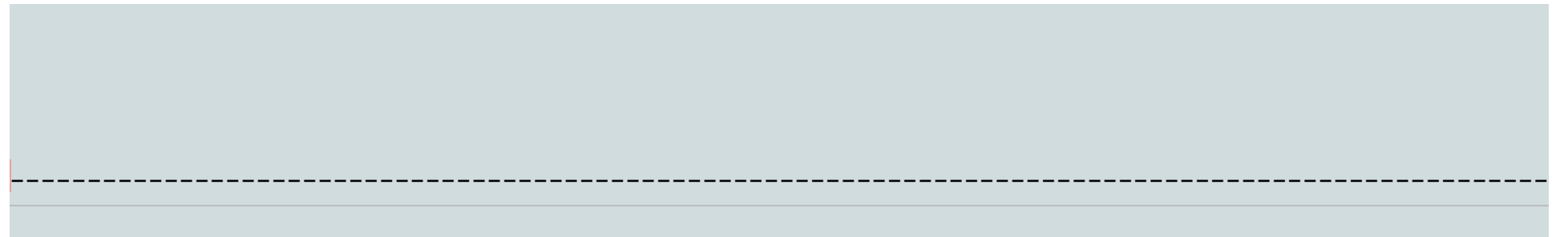
4,580

4,590

4,600

>> oriV >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

cgtttttcggccaccgctaacctgtcttttaacctgcttttaaccaatatattataaaccttgtttttaaccagggtgcgccctgtgcgcgtgaccgcg

4,610

4,620

4,630

4,640

4,650

4,660

4,670

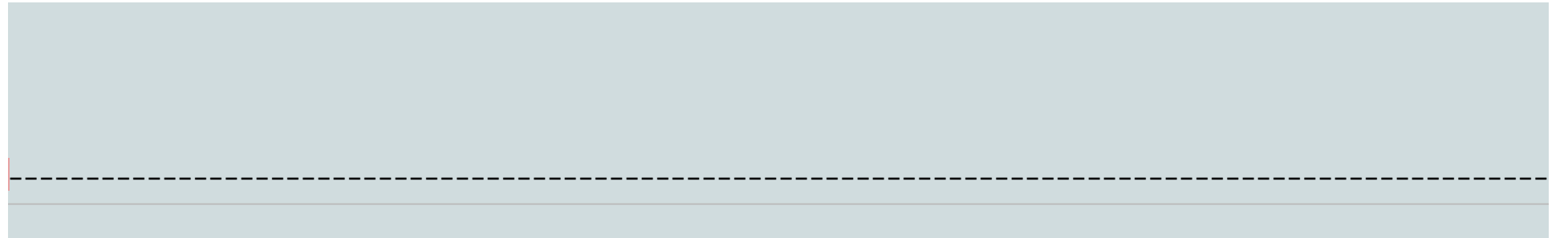
4,680

4,690

4,700

oriV

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

cacgccgaaggggggtgcccccttctcgaaccctcccggcccgctaacgcgggcctcccatccccccagggtgcgcccctcggccgcgaacggcct

4,710

4,720

4,730

4,740

4,750

4,760

4,770

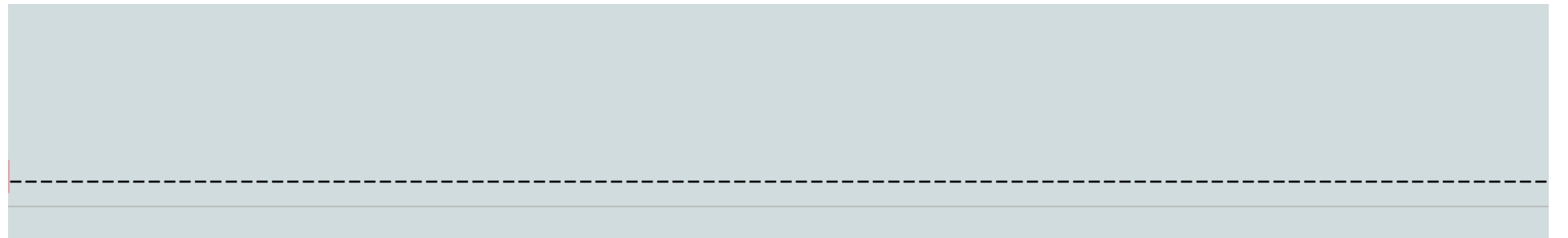
4,780

4,790

4,800

oriV

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

cacccccaaaatggcagcgctggccaattcgtgcgcggaaccctatttgtttatttttctaaatacattcaaatatgtatccgctcatgagacaataac

4,810 4,820 4,830 4,840 4,850 4,860 4,870 4,880 4,890 4,900

AmpR promoter

template sequence pAS1.11 (PprqA-eYFP-TclpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

cctgataaatgcttcaataatatgaaaaaggaagagtatgagtattcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgt

4,910 4,920 4,930 4,940 4,950 4,960 4,970 4,980 4,990 5,000

AmpR promoter

AmpR

template sequence pAS1.11 (PprqA-eYFP-TclpPX)

aligned sequence 2020-11-19_B10_ASAS111BSP3

ttttgctcaccagaaacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaagatc

5,010

5,020

5,030

5,040

5,050

5,060

5,070

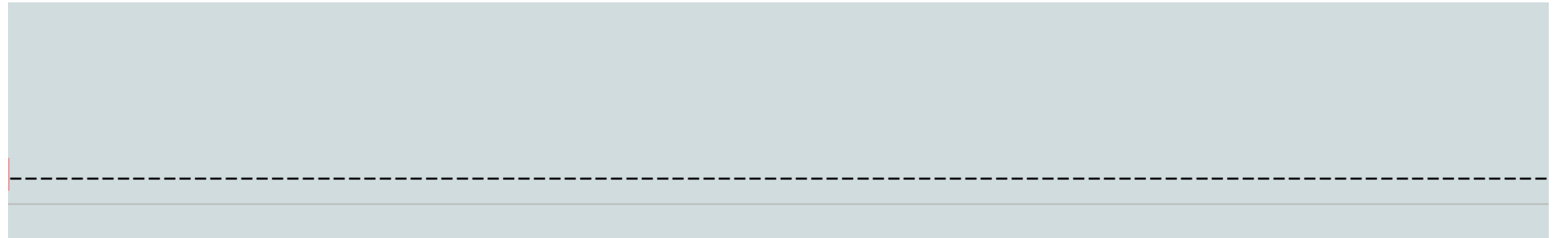
5,080

5,090

5,100

>> AmpR >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3

cttgagagttttcgccccgaagaacgtttccaatgatgagcacttttaaagtcttgctatgtggcgcggtattatcccgtatt

5,110

5,120

5,130

5,140

5,150

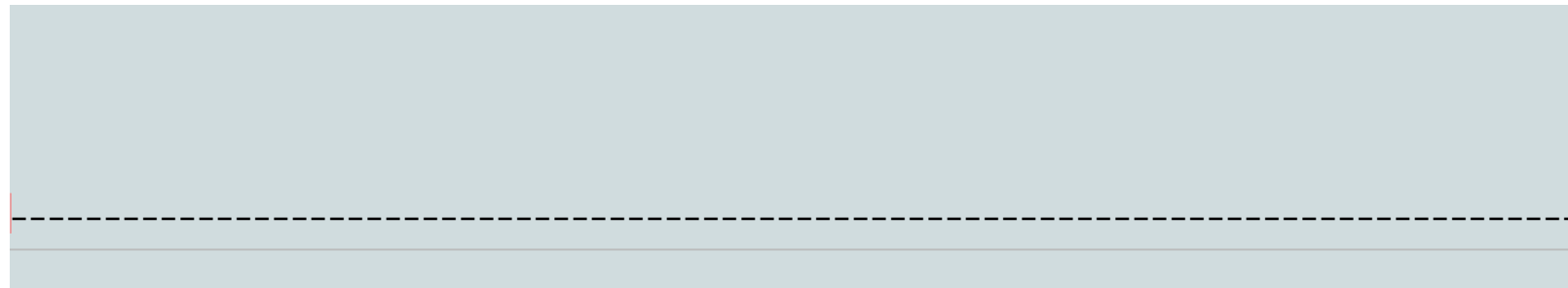
5,160

5,170

5,180

>> AmpR >>

template sequence pAS1.11 (PprqA-eYFP-TclpPX)



aligned sequence 2020-11-19_B10_ASAS111BSP3