

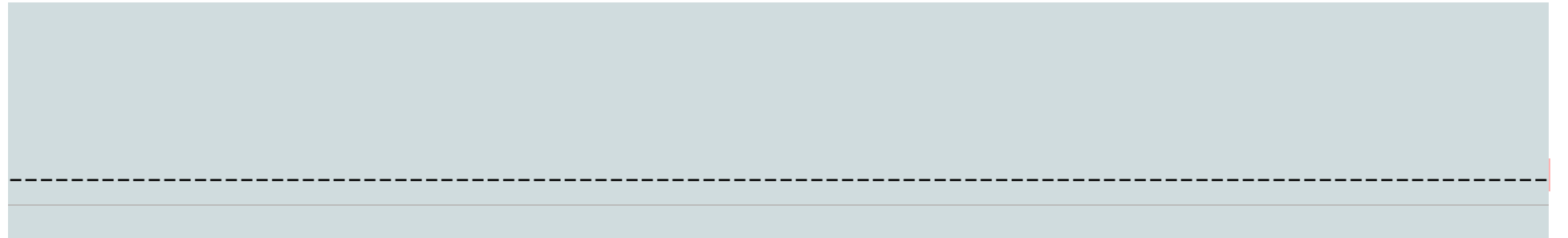
## Template Alignment: 2020-12-01\_E06\_ASJL114ASP4

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10 20 30 40 50 60 70 80 90 100

trfA

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



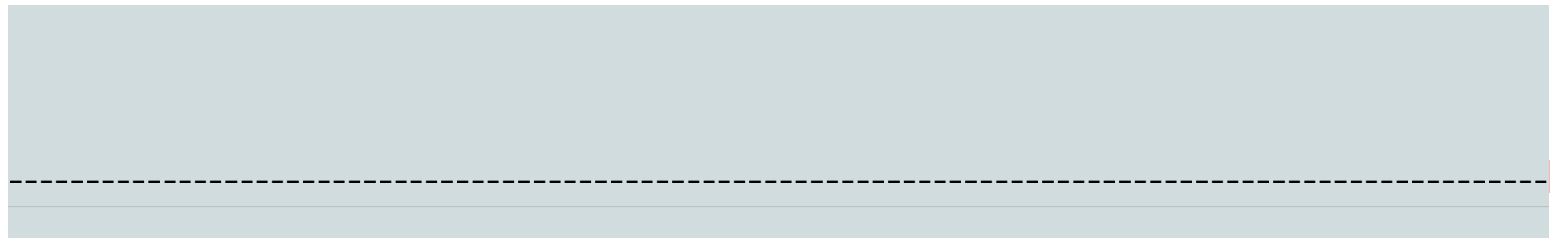
aligned sequence 2020-12-01\_E06\_ASJL114ASP4

gccgccgtggagcgttcgcgtcgtcttgaacaggaggcggcaggtttggcgaagtcgatgaccatcgacacgcgaggaactatgacgaccaagaagcgaa

110 120 130 140 150 160 170 180 190 200

trfA

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

aaaccgccggcgaggacctggcaaacaggtcagcgaggccaagcaggccgcgttgctgaaacacacgaagcagcagatcaaggaaatgcagctttcctt

210

220

230

240

250

260

270

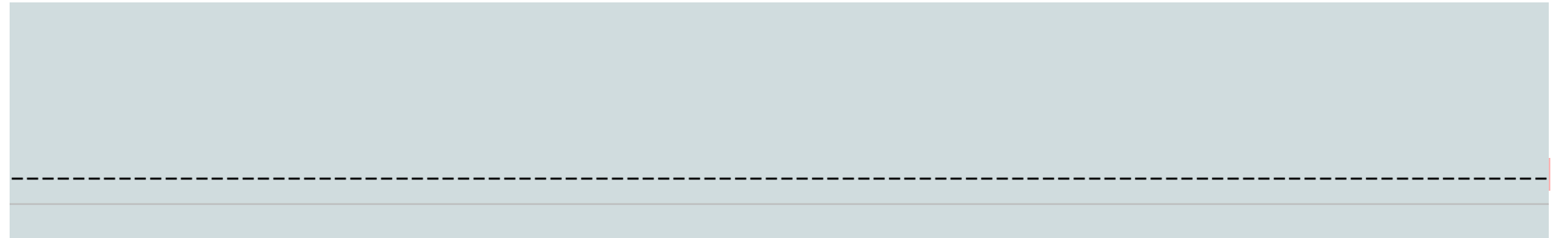
280

290

300

trfA

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

gttcgatattgcgccgtggccggacacgatgcgagcgatgccaaacgacacggcccgctctgccctgttcaccacgcgcaacaagaaaatcccgcgcgag

310

320

330

340

350

360

370

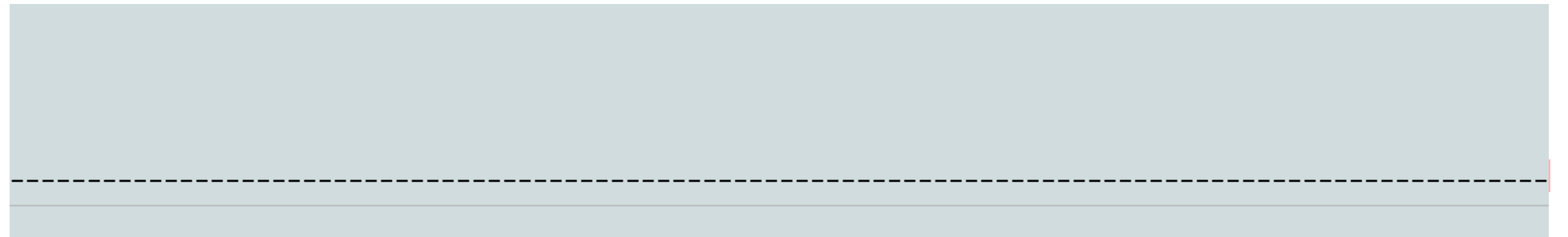
380

390

400

trfA

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

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410

420

430

440

450

460

470

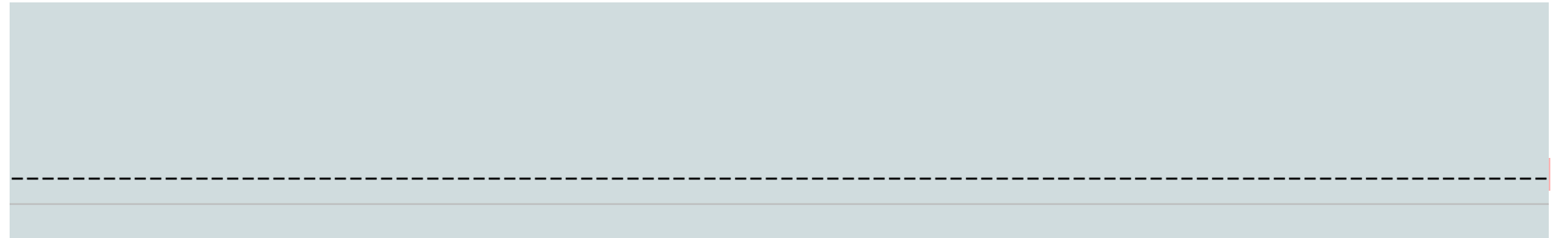
480

490

500

>> trfA >>

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

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510

520

530

540

550

560

570

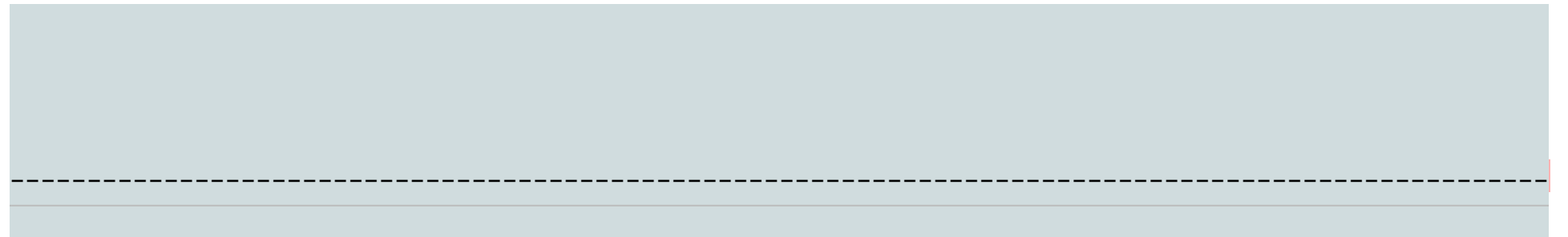
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590

600

>> trfA >>

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



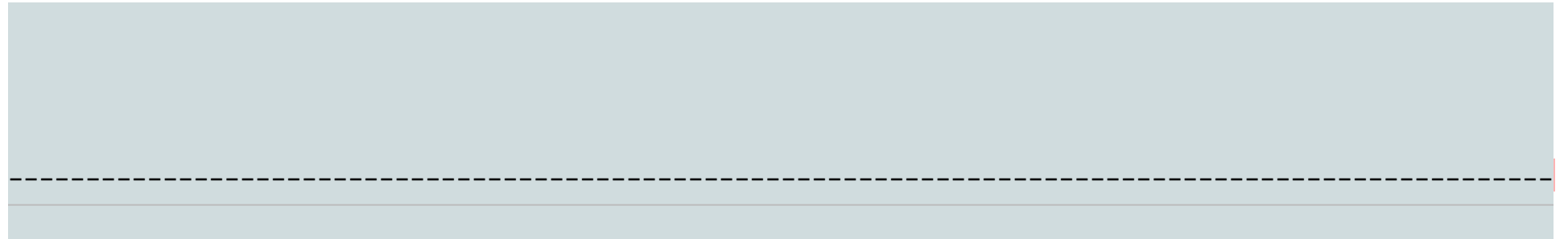
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ttacacgaaggccgaggaatgcctgtcgcgcctacaggcgacggcgatgggcttcacgtccgaccgcgttgggcacctggaatcggtgtcgctgctgcac

610 620 630 640 650 660 670 680 690 700

>> trfA >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



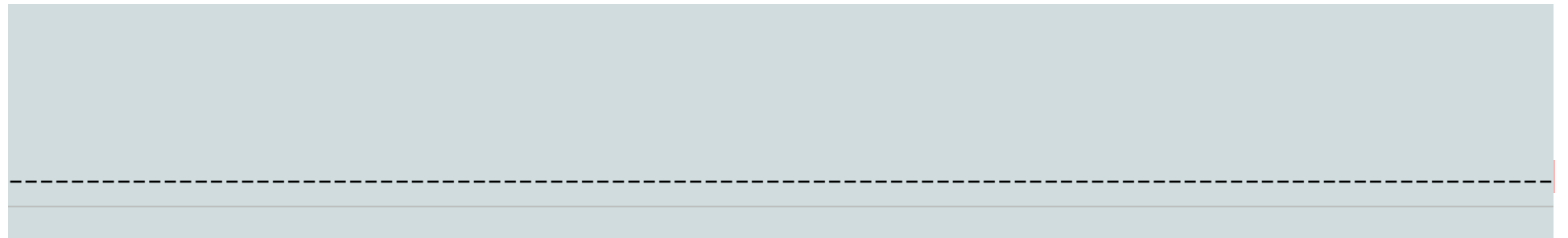
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710 720 730 740 750 760 770 780 790 800

>> trfA >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

tcatatgggagaagtaccgcaagctgtcgccgacggcccgacggatgttcgactatttcagctcgcaccgggagccgtacccgctcaagctggaacctt

810 820 830 840 850 860 870 880 890 900

>> trfA >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

ccgcctcatgtgcggatcggattccacccgcgtgaagaagtggcgcgagcaggctcggcgaagcctgcgaagagttgcgaggcagcggcctggtggaacac

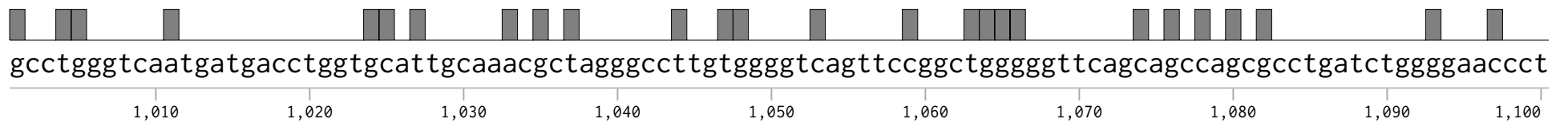
910 920 930 940 950 960 970 980 990 1,000

>> trfA >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

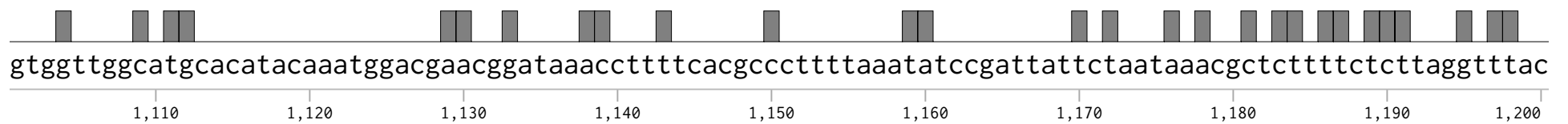
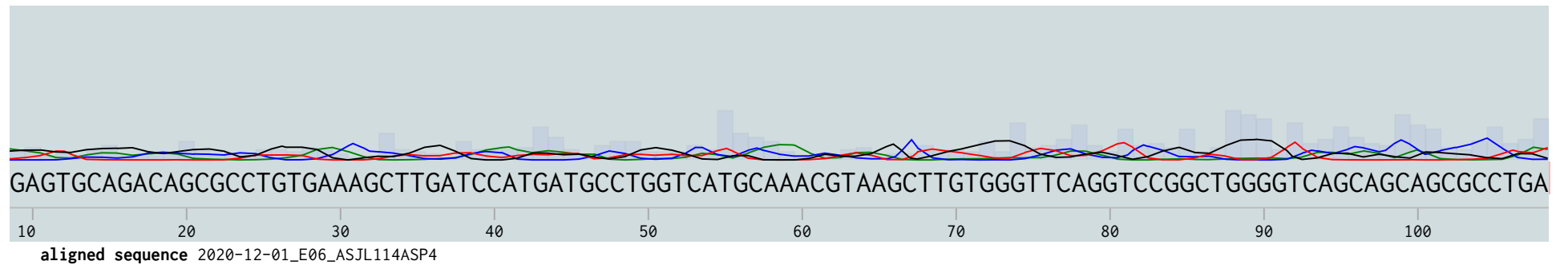


aligned sequence 2020-12-01\_E06\_ASJL114ASP4

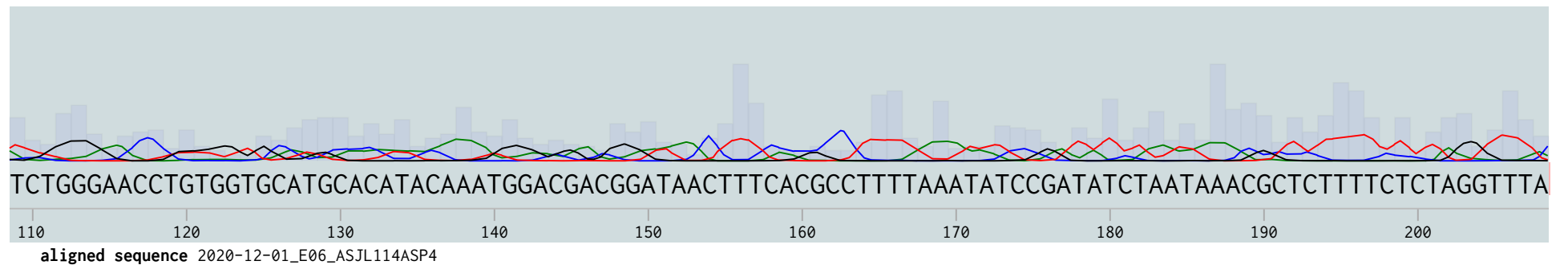


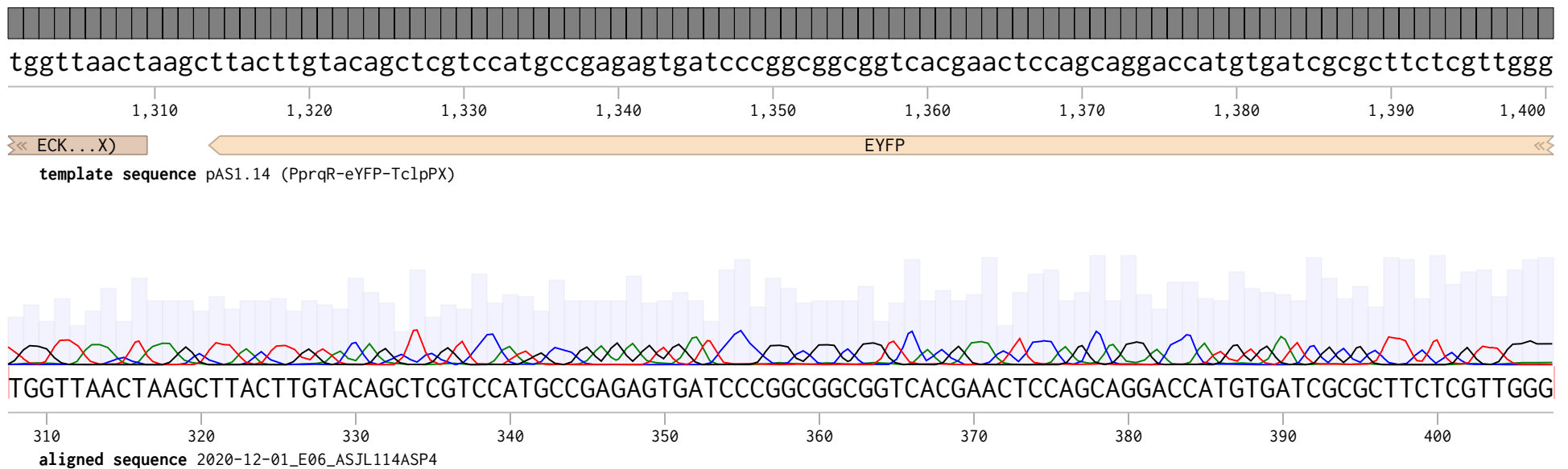
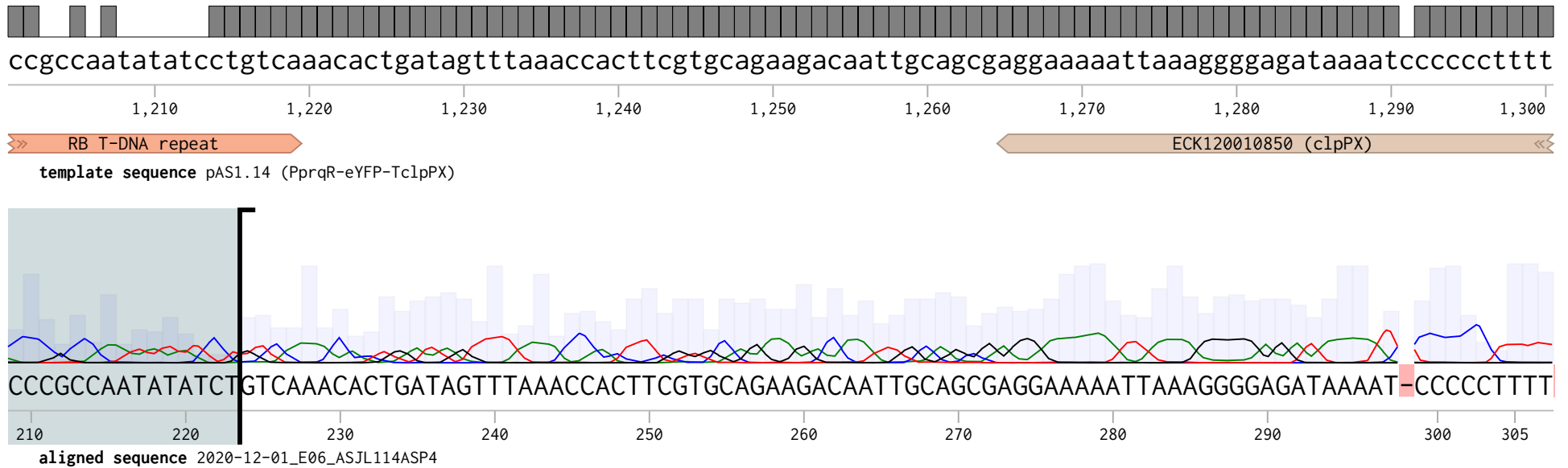
trfA

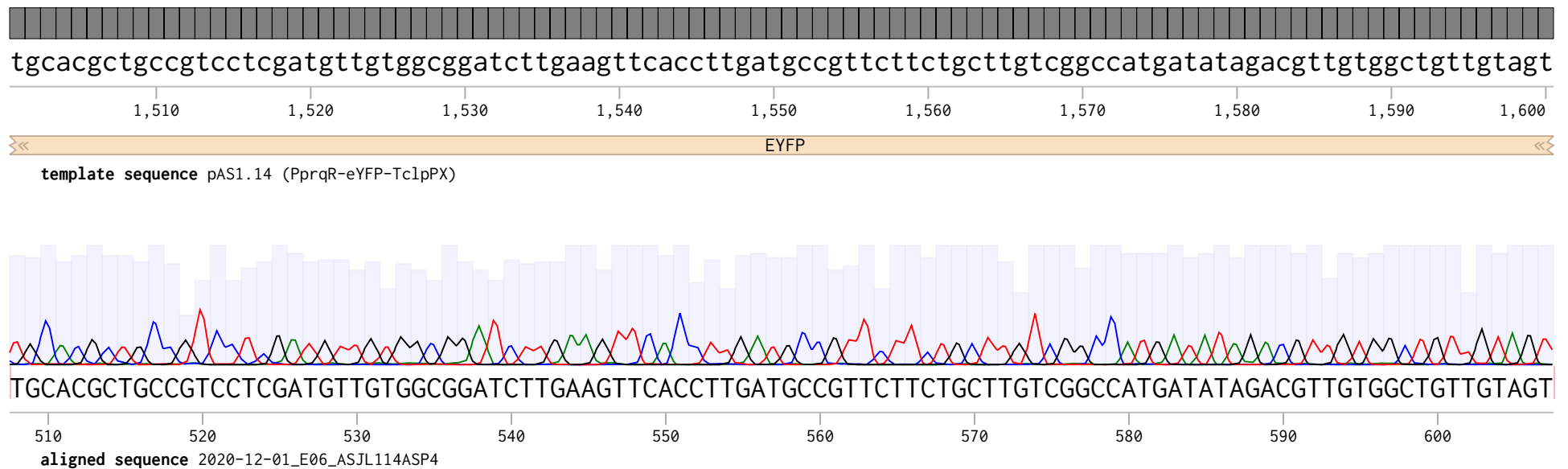
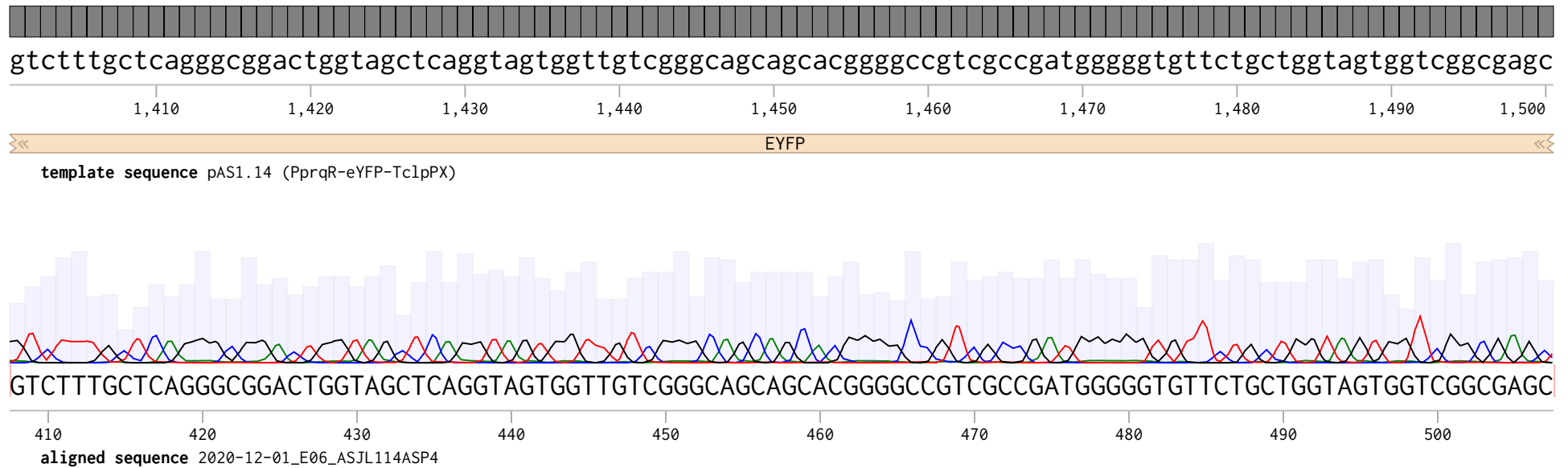
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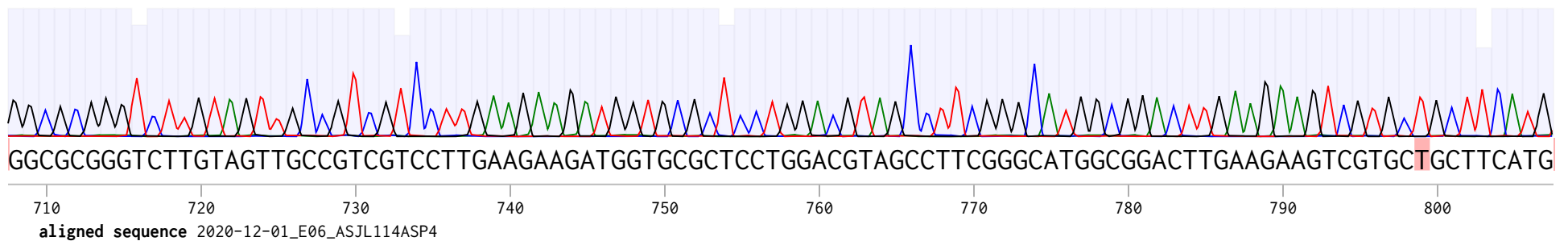
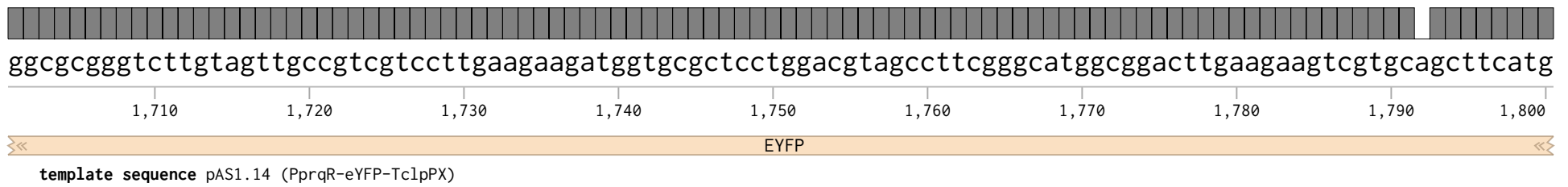
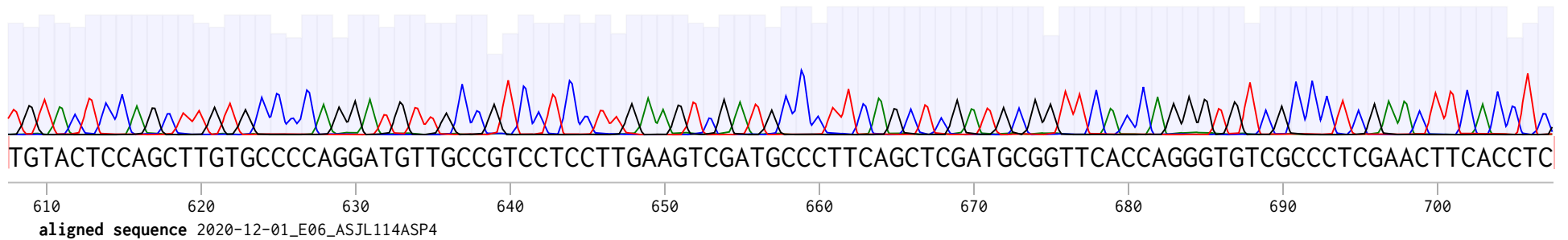
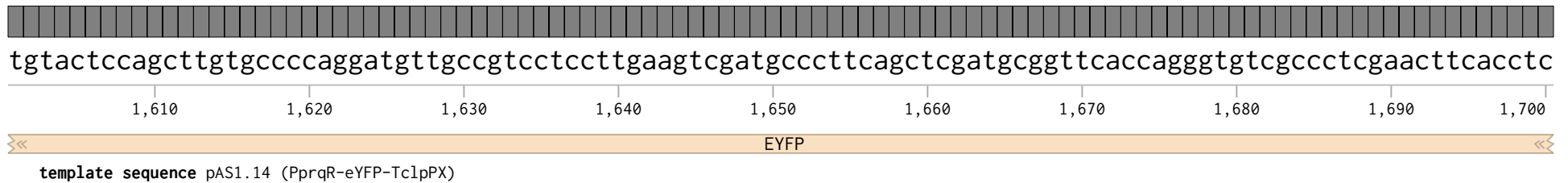
template sequence pAS1.14 (PprqR-eYFP-TcIpPX)

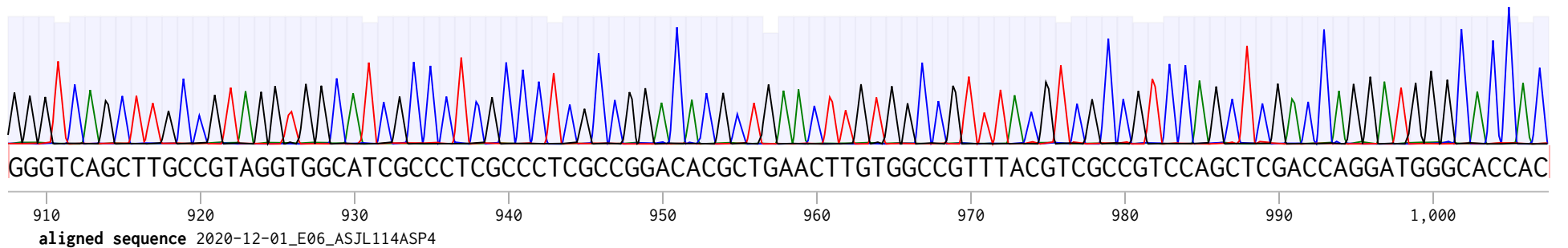
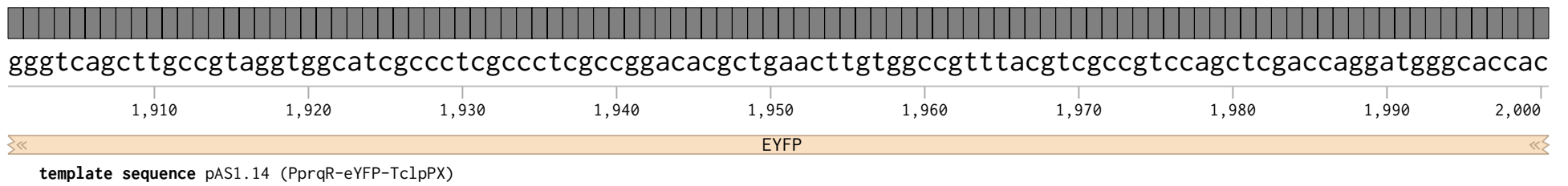
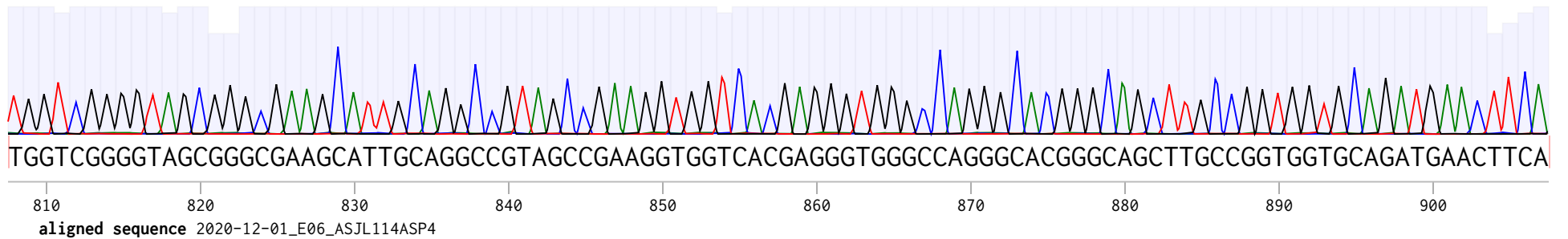
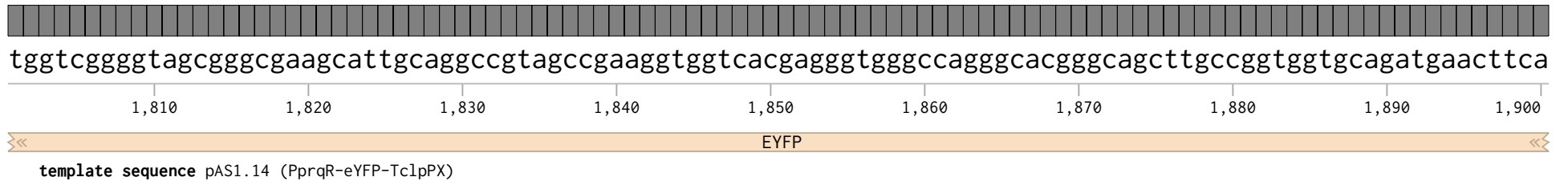


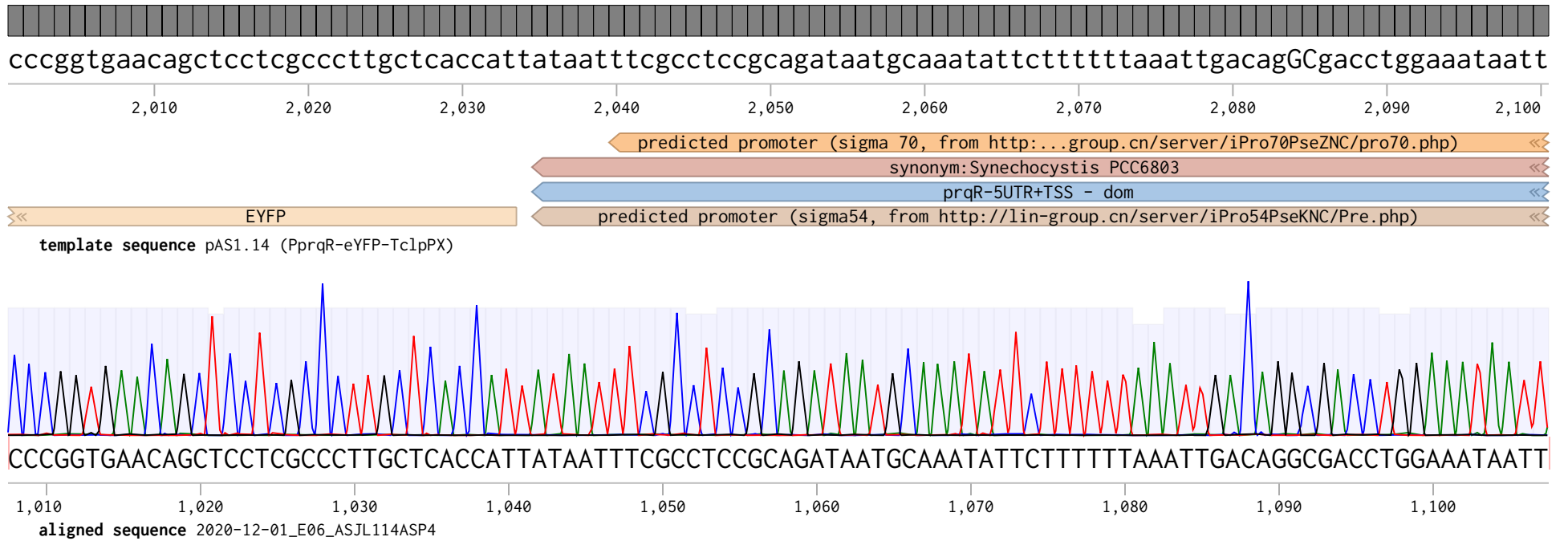


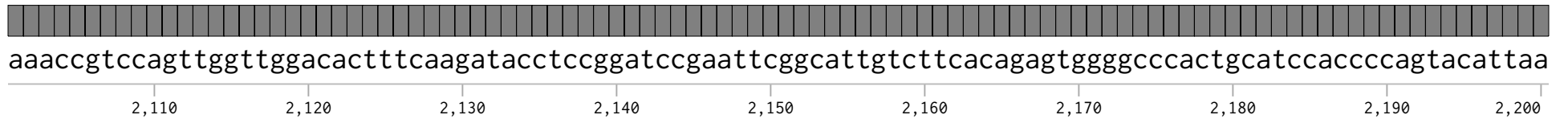




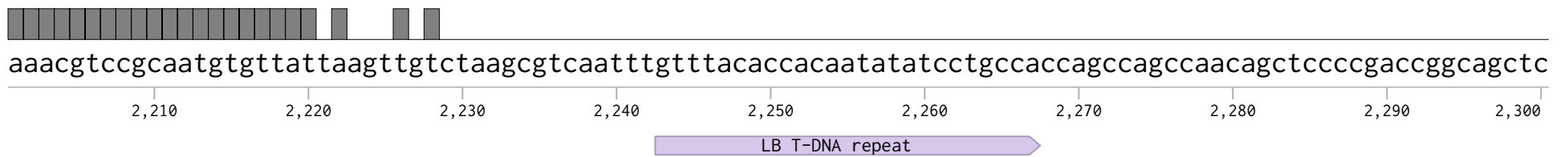
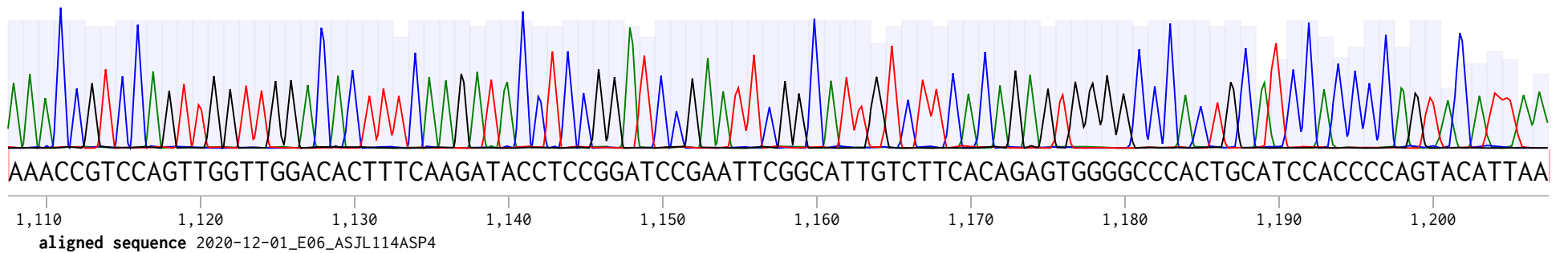








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« synonym:Synechocystis PCC6803  
« prqR-5UTR+TSS - dom  
« predicted ...Pre.php)  
template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



ggcacaaaatcaccactcgatacaggcagcccatcagtcagatcaggatctcctttgcgacgctcacccgggctggttggccctcgccgctgggctggcggc

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

oriV

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

cgtctatggccctgcaaacgcgccagaaacgccgtcgaagccgtgtgcgagacaccgcggccgcccggcgttgtggatacctcgcggaaaacttggccctc

2,410 2,420 2,430 2,440 2,450 2,460 2,470 2,480 2,490 2,500

oriV

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

actgacagatgaggggCGGacgttgacacttgaggggCCGactcaccCGGCGGCGgttgacagatgaggggCaggctcgatttcggCCGGCGacgtgga

2,510

2,520

2,530

2,540

2,550

2,560

2,570

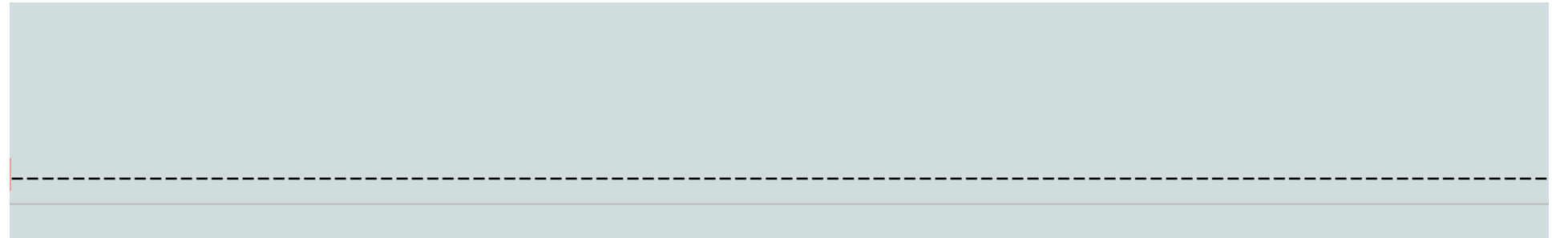
2,580

2,590

2,600

oriV

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

gctggccagcctcgcaaatCGGCGaaaacgcctgattttacGCGagtttccacagatgatgtggacaagcctggggataagtGCCctGCGgtattgaca

2,610

2,620

2,630

2,640

2,650

2,660

2,670

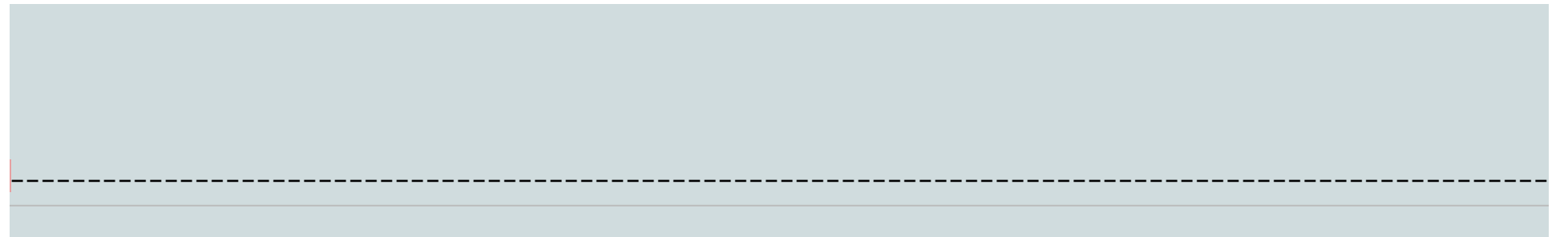
2,680

2,690

2,700

oriV

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



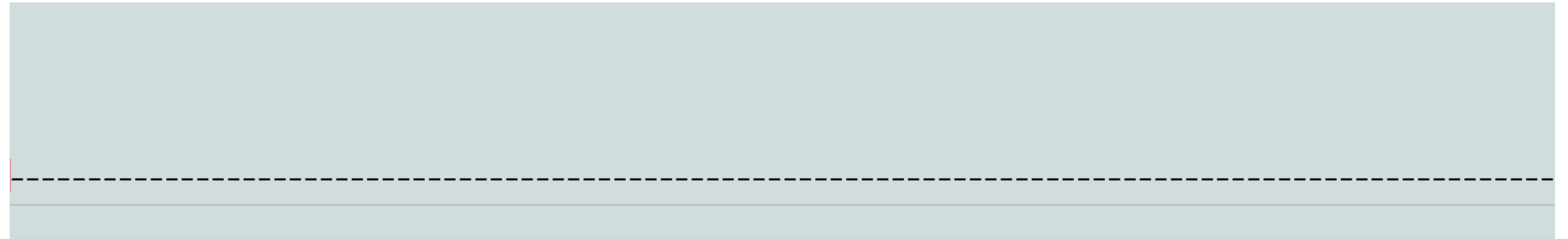
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2,710 2,720 2,730 2,740 2,750 2,760 2,770 2,780 2,790 2,800

>> oriV >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



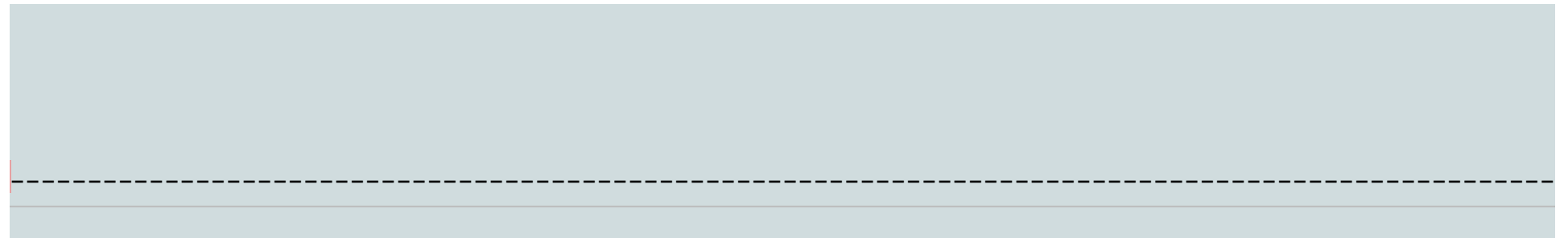
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2,810 2,820 2,830 2,840 2,850 2,860 2,870 2,880 2,890 2,900

>> oriV >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

accttgtttttaaccagggtgcgccctgtgcgcgtagaccgcgcacgccgaaggggggtgcccccccttctcgaaccctcccggcccgctaacgcggggc

2,910

2,920

2,930

2,940

2,950

2,960

2,970

2,980

2,990

3,000

oriV

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

tcccatccccccagggtgcgccctcgggccggaacggcctcaccccaaaaatggcagcgctggccaattcgtgcgcggaaccctatttgtttattt

3,010

3,020

3,030

3,040

3,050

3,060

3,070

3,080

3,090

3,100

AmpR promoter

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

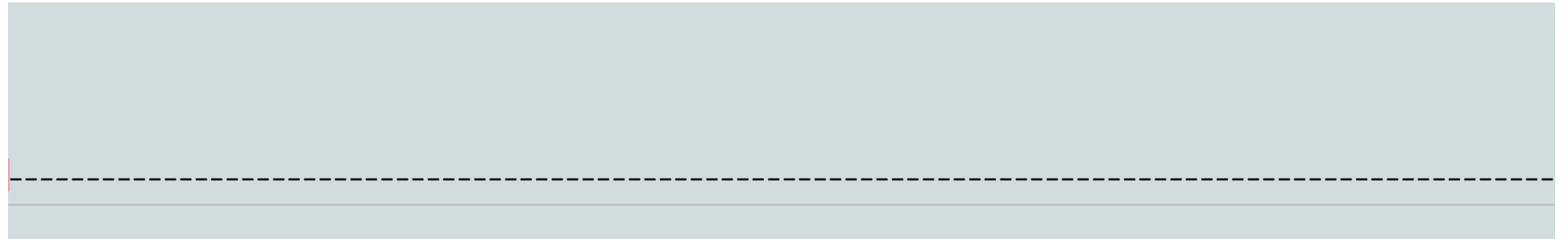


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3,110 3,120 3,130 3,140 3,150 3,160 3,170 3,180 3,190 3,200



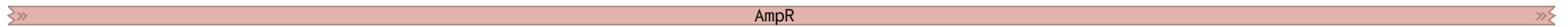
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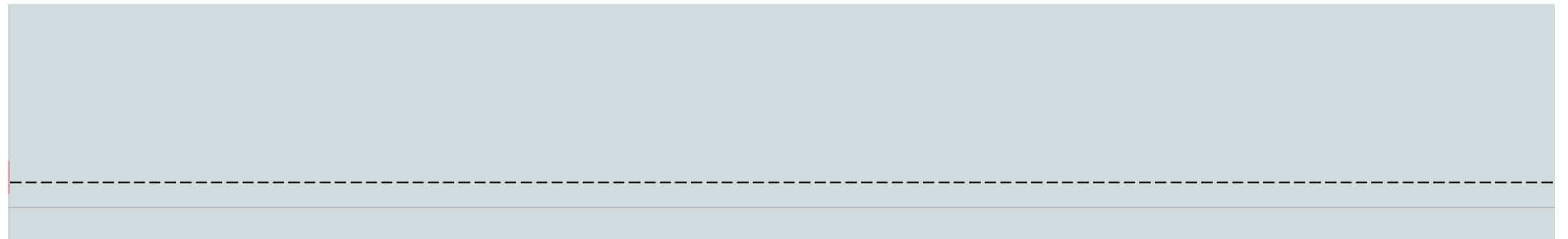
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3,210 3,220 3,230 3,240 3,250 3,260 3,270 3,280 3,290 3,300



template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

acgagtgggttacatcgaactggatctcaacagcggtaagatccttgagagttttcgccccgaagaacgtttccaatgatgagcacttttaaagttctg

3,310

3,320

3,330

3,340

3,350

3,360

3,370

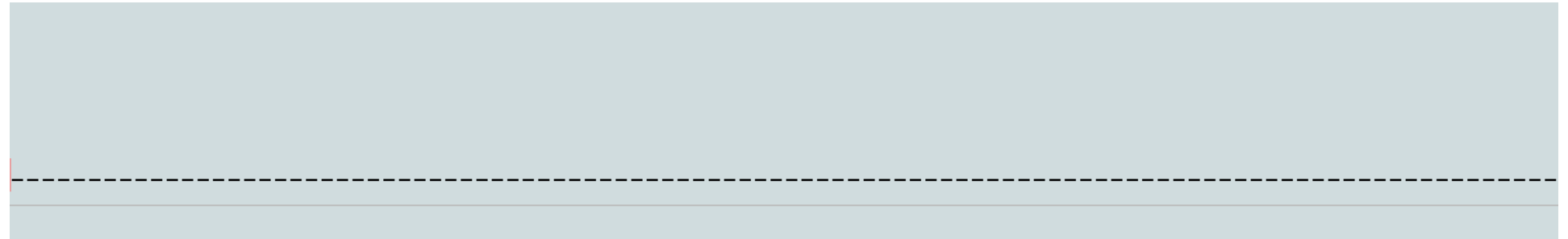
3,380

3,390

3,400

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template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

ctatgtggcgcggtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactcaccagtca

3,410

3,420

3,430

3,440

3,450

3,460

3,470

3,480

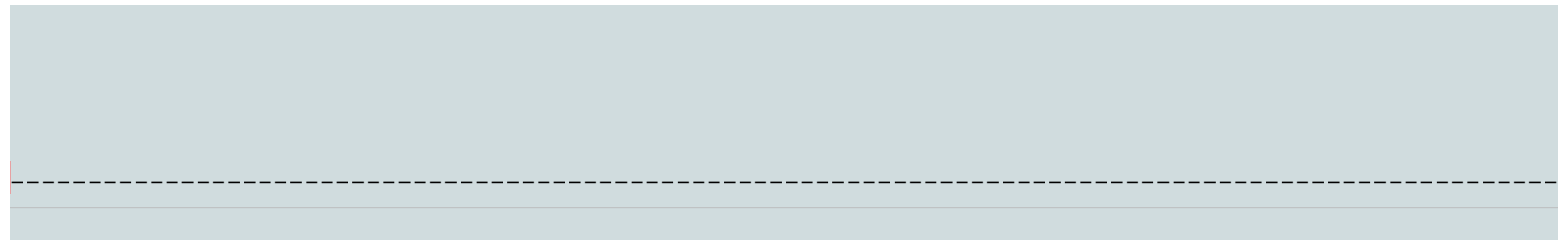
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3,500

>> Amp-R <<

>> AmpR <<

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



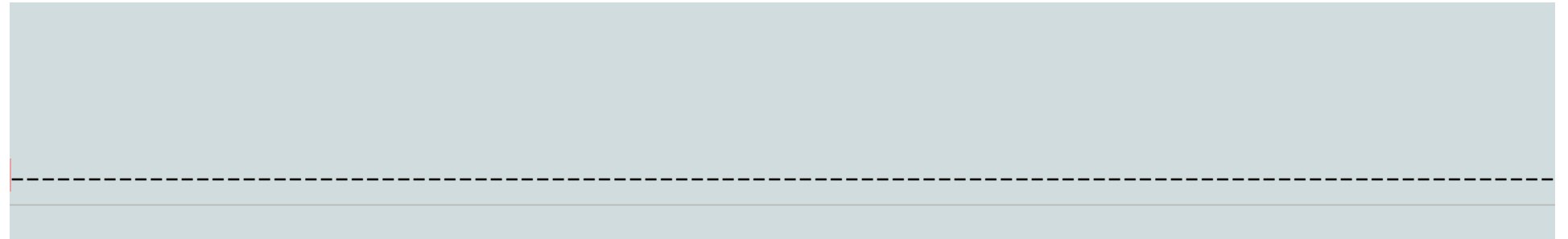
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cagaaaagcatccttacggatggcatgacagtaagagaattatgcagtgcctgccataacatgagtgataaacactgcggccaacttacttctgacaacgat

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

>> AmpR >>

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



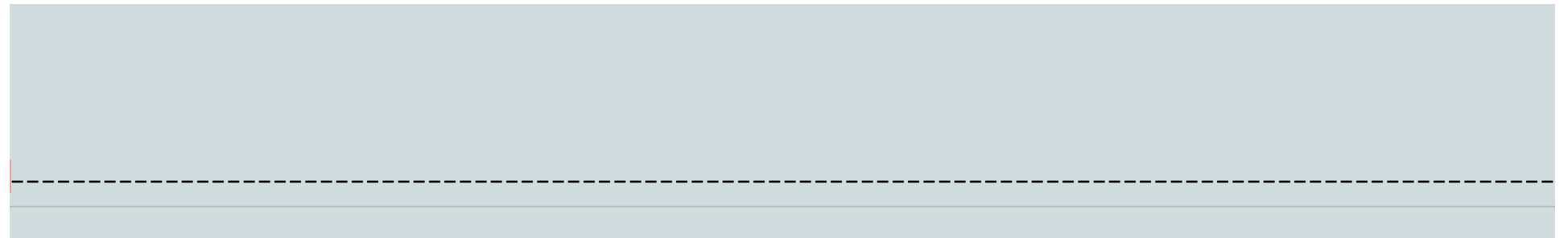
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cggaggaccgaaggagcctaaccgctttttgcacaacatgggggatcatgtaactcgccttgatcggtgggaaccggagctgaatgaagccataccaac

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

>> AmpR >>

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

gacgagcgtgacaccacgatgcctgtagcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatag

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

>> AmpR >>

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



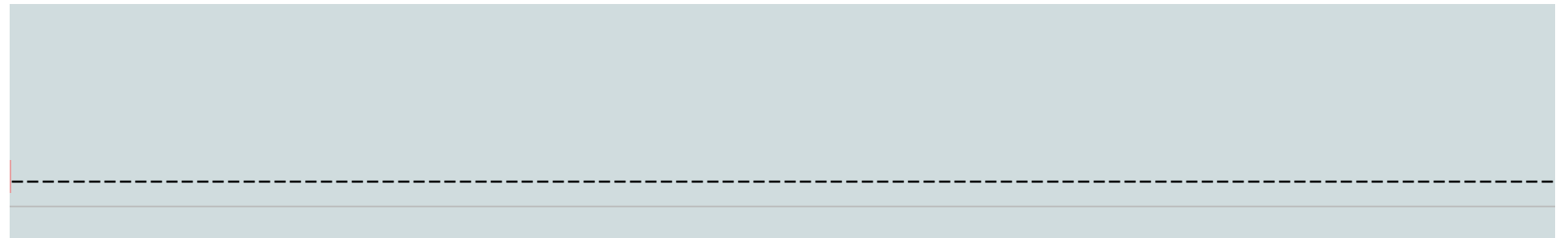
aligned sequence 2020-12-01\_E06\_ASJL114ASP4

actggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctgggtttattgctgataaatctggagccggtgagcgtgggttc

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

>> AmpR >>

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



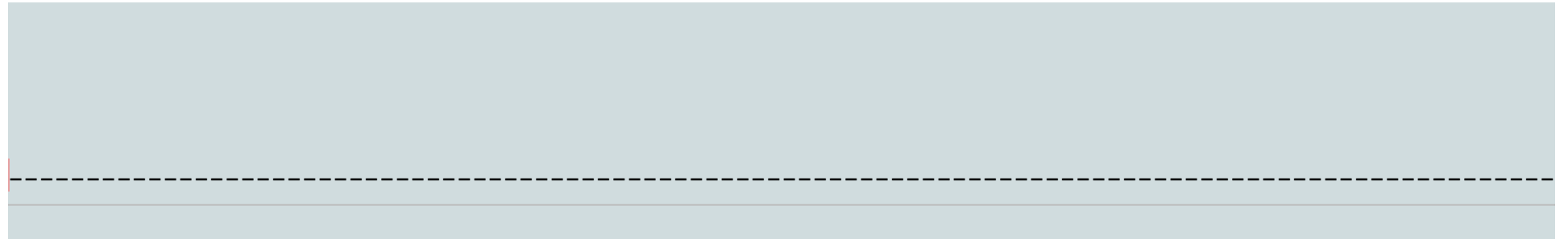
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tcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaataga

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

>> AmpR >>

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



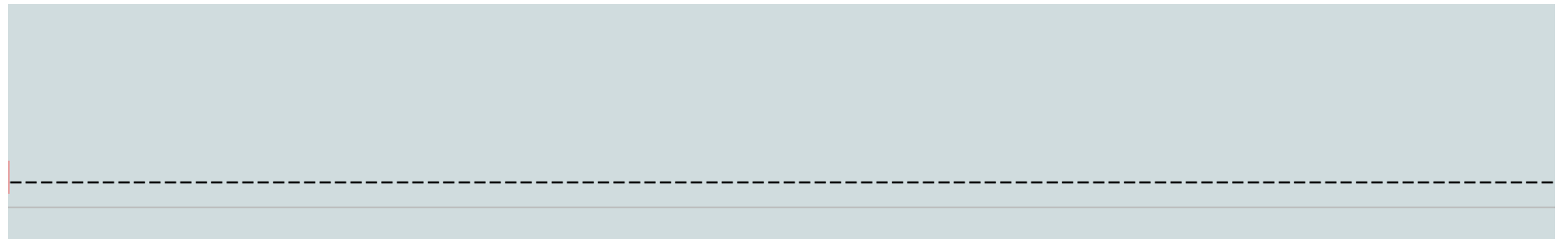
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4,010 4,020 4,030 4,040 4,050 4,060 4,070 4,080 4,090 4,100

>> AmpR >

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

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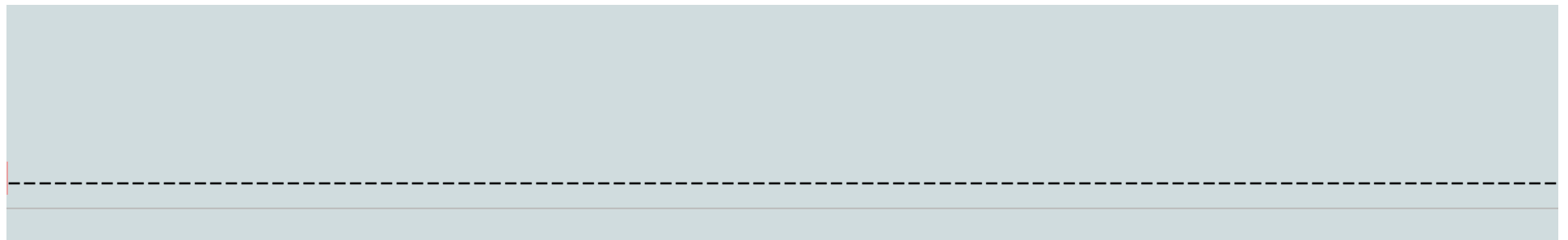
4,110 4,120 4,130 4,140 4,150 4,160 4,170 4,180 4,190 4,200  
template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

caaaggatcttcttgagatccttttttctgcgcgtaatctgctgcttgcaaacaaaaaaaccaccgctaccagcggtggtttgtttgccggatcaagag

4,210 4,220 4,230 4,240 4,250 4,260 4,270 4,280 4,290 4,300  
ori  
template sequence pAS1.14 (PprqR-eYFP-TclpPX)



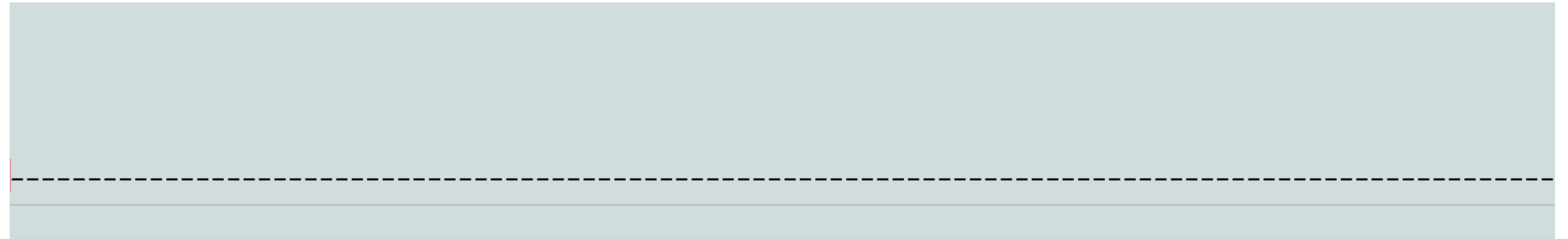
aligned sequence 2020-12-01\_E06\_ASJL114ASP4

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

ori

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



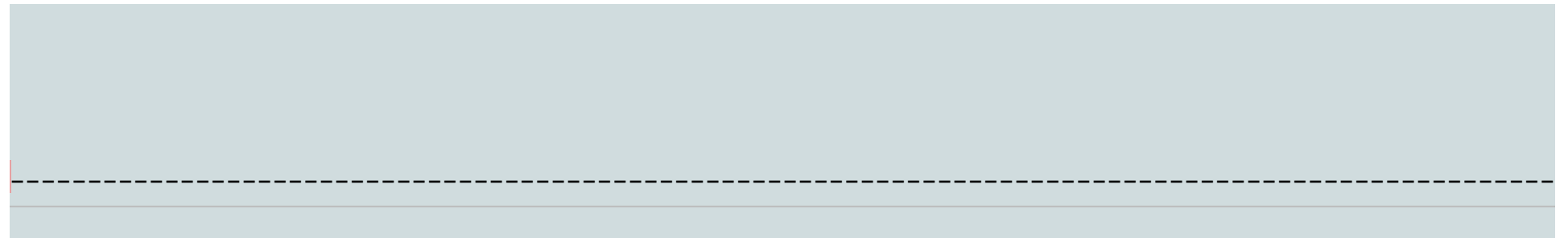
aligned sequence 2020-12-01\_E06\_ASJL114ASP4

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4,410 4,420 4,430 4,440 4,450 4,460 4,470 4,480 4,490 4,500

ori

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



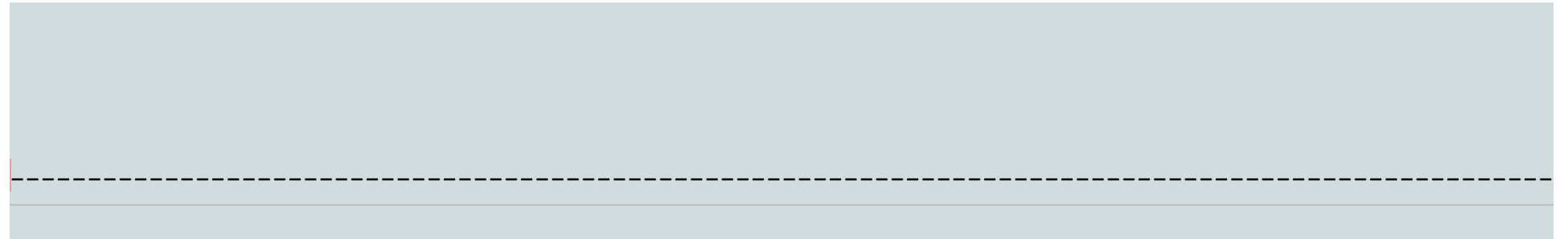
aligned sequence 2020-12-01\_E06\_ASJL114ASP4

gttaccggataaggcgcagcggctcgggctgaacggggggttcgtgcacacagcccagcttggagcgaacgacctacaccgaactgagatacctacagcgt

4,510 4,520 4,530 4,540 4,550 4,560 4,570 4,580 4,590 4,600

ori

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



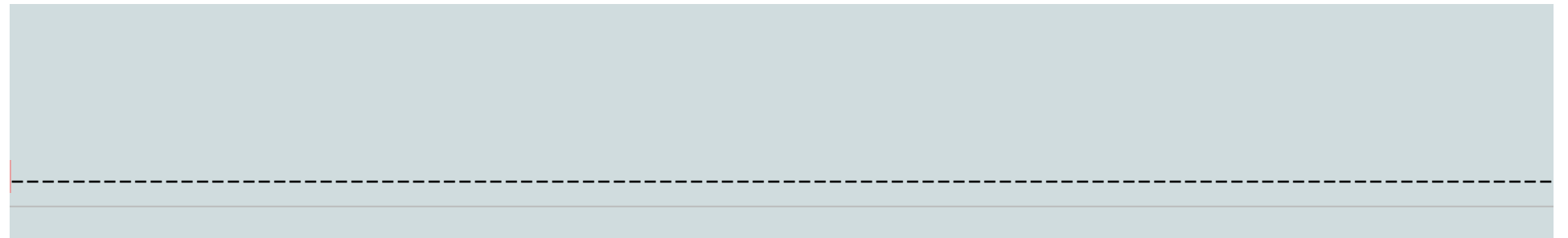
aligned sequence 2020-12-01\_E06\_ASJL114ASP4

gagctatgagaaagcgccacgcttcccgaaggagaaaggcggacaggtatccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccag

4,610 4,620 4,630 4,640 4,650 4,660 4,670 4,680 4,690 4,700

ori

template sequence pAS1.14 (PprqR-eYFP-TcIpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4



ggggaaacgcctggtatctttatagtcctgtcgggtttcgccacctctgacttgagcgtcgatTTTTgtgatgctcgtcaggggggcggagcctatggaa

4,710

4,720

4,730

4,740

4,750

4,760

4,770

4,780

4,790

4,800

pBR322ori-F

ori

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

aaacgccagcaacgcggcctTTTTacggttcctggcagatcctagatgtggcgcaacgatgccggcgacaagcaggagcgcaccgacttcttccgcatca

4,810

4,820

4,830

4,840

4,850

4,860

4,870

4,880

4,890

4,900

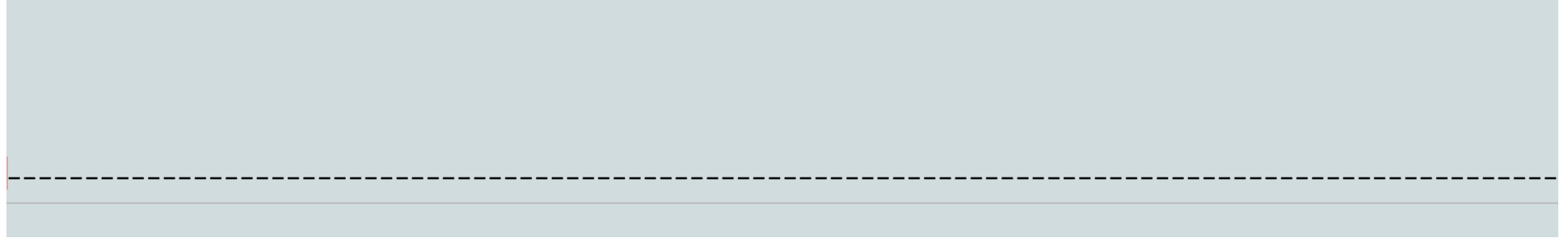
template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

agtgttttggctctcaggccgaggcccacggcaagtatttgggcaaggggtcgctggtattcgtgcagggaagattcggaataccaagtacgagaagga

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

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

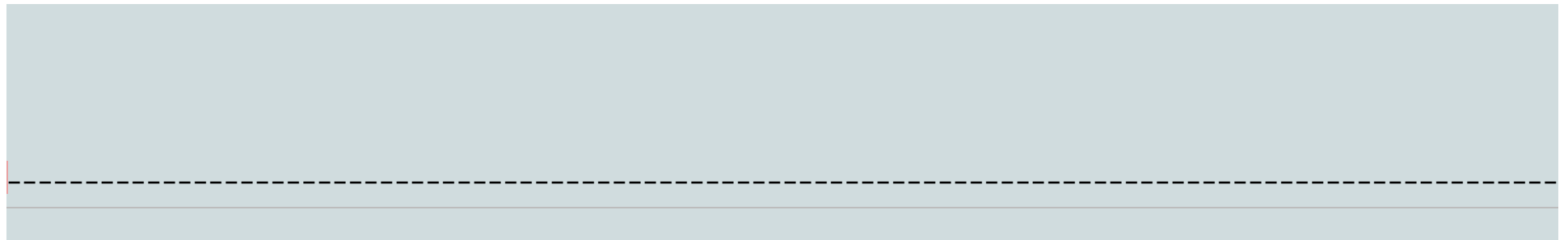


aligned sequence 2020-12-01\_E06\_ASJL114ASP4

cggccagacgggtctacgggaccgacttcattgccgataaggtggattatctggacaccaaggcaccaggcgggtcaaatacaggaataagggcacattgcc

5,010 5,020 5,030 5,040 5,050 5,060 5,070 5,080 5,090 5,100

template sequence pAS1.14 (PprqR-eYFP-TclpPX)



aligned sequence 2020-12-01\_E06\_ASJL114ASP4

ccggcgtgagtcggggcaatcccgcaaggagggtgaatgaatcggacgtttgaccggaaggcatacaggcaagaactgatcgacgcgggggtttccgccg

5,110 5,120 5,130 5,140 5,150 5,160 5,170 5,180 5,190 5,200

trfA

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4

aggatgccgaaaccatcgcaagccgcaccgtcatgcgtgcgccccg

5,210 5,220 5,230 5,240

trfA

template sequence pAS1.14 (PprqR-eYFP-TclpPX)

aligned sequence 2020-12-01\_E06\_ASJL114ASP4