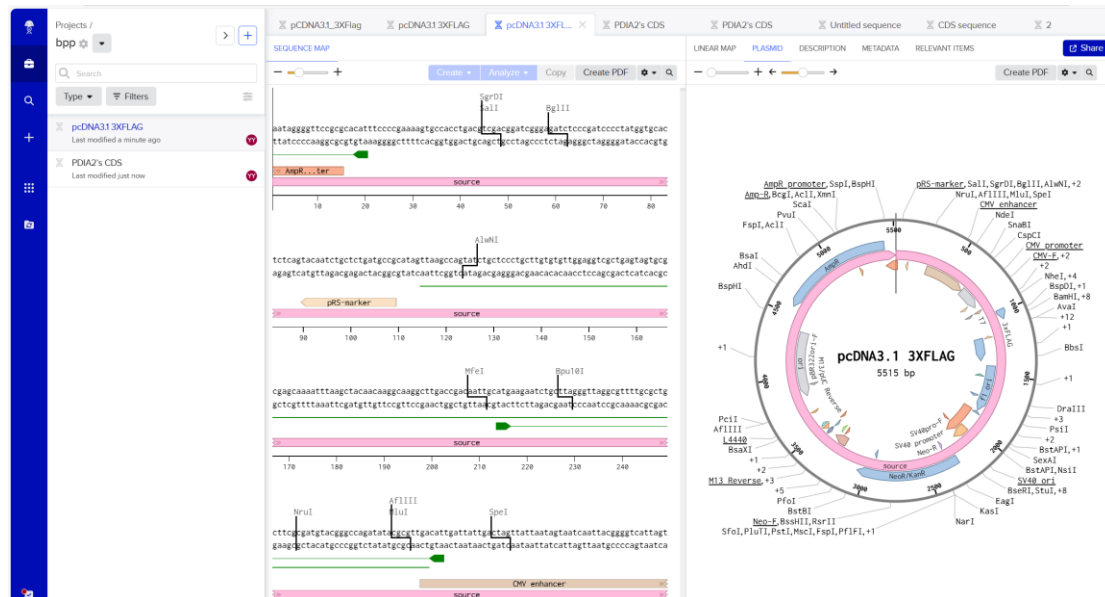


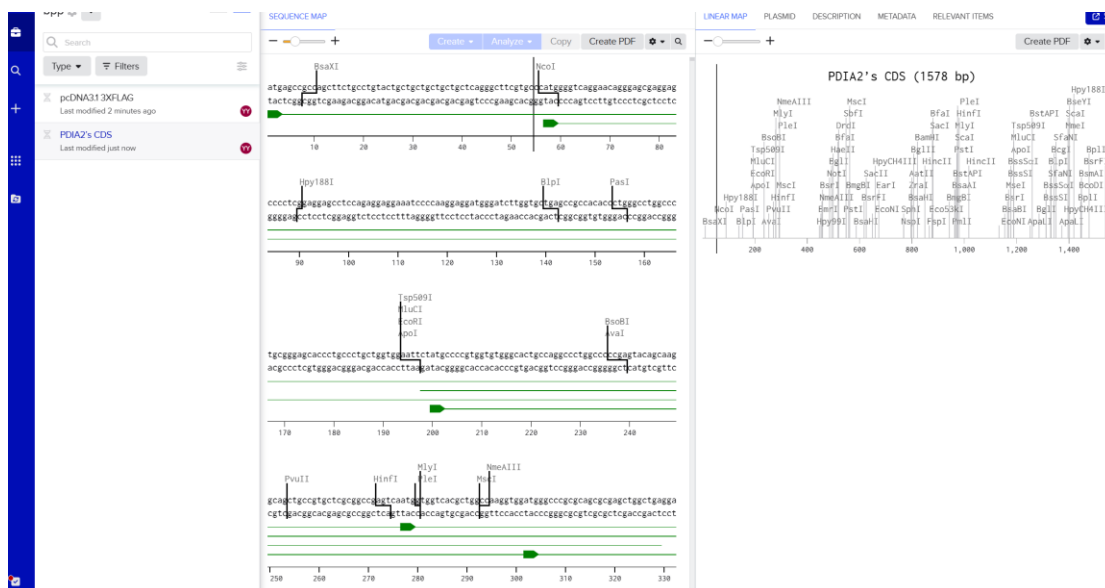
导师

1.pcDNA3.1 3XFLAG

2.PDIA2's CDS



处理 PDIA2's CDS



将pro译出来

① 全选 CDS 序列

The screenshot shows the SnapGene software interface. On the left, the 'Projects' panel lists 'pcDNA3.1 3XFLAG' and 'PDIA2's CDS'. The main window displays the 'SEQUENCE MAP' for 'PDIA2's CDS'. On the right, the 'TRANSLATIONS' panel is active, showing a list of restriction enzymes and a 'Create translation' button. Red annotations include: a circle around the 'TRANSLATIONS' tab, an arrow pointing to the 'Create translation' button, and a circle around the 'Add new' button in the 'Create translation' dialog.

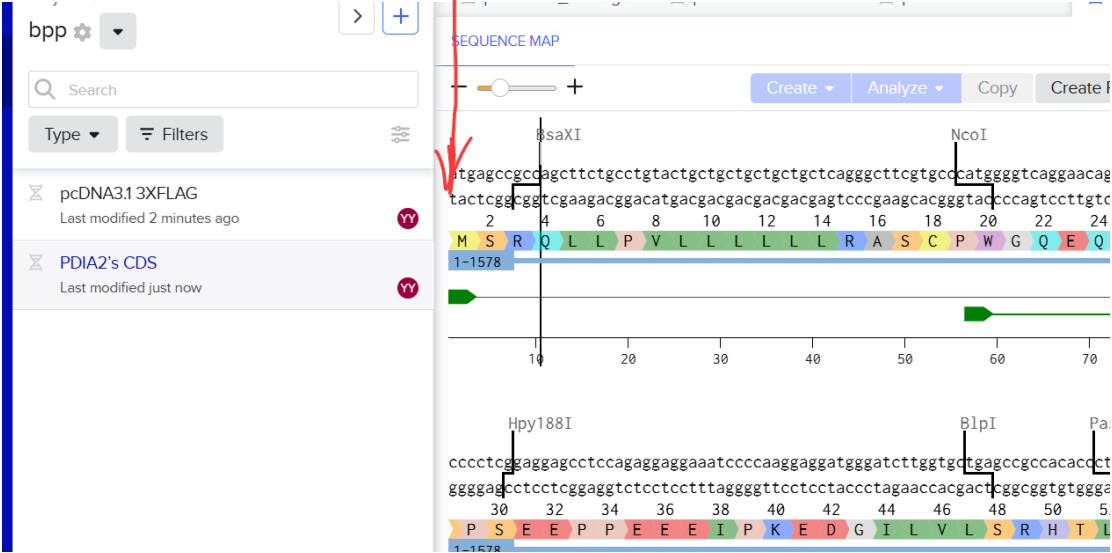
如下效果:

The screenshot shows the SnapGene software interface after the translation process. The 'TRANSLATIONS' panel now displays the translated protein sequence for 'PDIA2's CDS'. A green notification bar at the bottom indicates 'Successfully saved translation'. The sequence map shows the protein sequence with various restriction enzyme sites marked.

PDIA2's CDS (头部分)

最左端开始部分插入 GCATGCTAGCGCCACC

import base.



PDIA2's CDS (尾部分)

←

↺

https://benchling.com/yangyyyyyyy/f/lib_qCGhCu3N-bpp/seq_6T6uUCpm-pdia2s-cds/edit

Projects /
bpp

Search

Type

Filters

pcDNA3.1 3XFLAG
Last modified 2 minutes ago

PDIA2's CDS
Last modified just now

pCDNA3.1_3XFLAG

pCDNA3.1 3XFLAG

pCDNA3.1 3XFLAG

PDIA2's CDS

SEQUENCE MAP

—

+

Create

Analyze

Copy

Create PDF

⚙

C

1,3301,3401,3501,3601,3701,3801,3901,4001,410

ScaI

BseYI

Hpy188I

BspI

BsmAI

EcoDI

BspI

tacttccagcaggccaggtcgaaggtgattgaatacaaaagcaccagacccctggagactttctccaagttcctggadaa

atgaagggtgtcccggtccagccttccactaactatgttttctgtgtccctggacctctgaagaggttcaagacctgtt

466468470472474476478480482484486488490492

Y F P A G P G R K V I E Y K S T R D L E T F S K F L D N

17-1594

1,4201,4301,4401,4501,4601,4701,4801,490

BsrFI

cggggcggtgctgccacggaggagcccccgaggagccagcagccccgttcccgagccacccggccaactccactatgggt

gccccgcagcaggggtgcctcctcggggcctcctcgtgtcggggcaaggcctcgttgccggttgagggtgatacccca

494496498500502504506508510512514516518520

G G V L P T E E P P E E P A A P F P E P P A N S T M G

17-1594

1,5001,5101,5201,5301,5401,5501,5601,570

HpyCH4III

ccaaggaggaactag

ggttcctccttgacatc

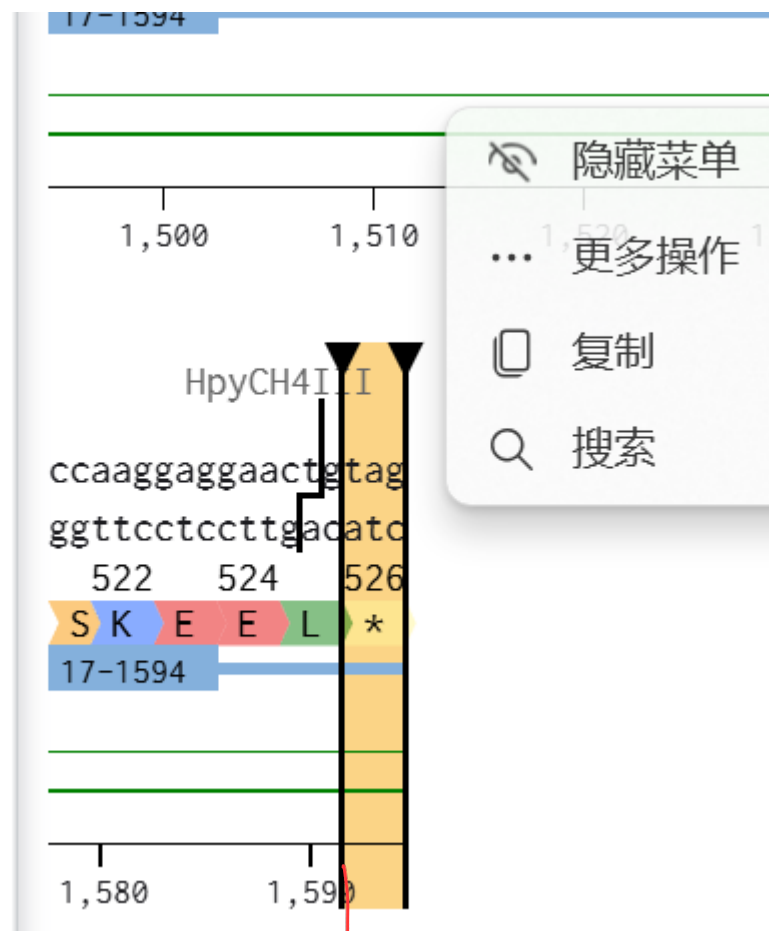
522524526

S K E E L *

17-1594

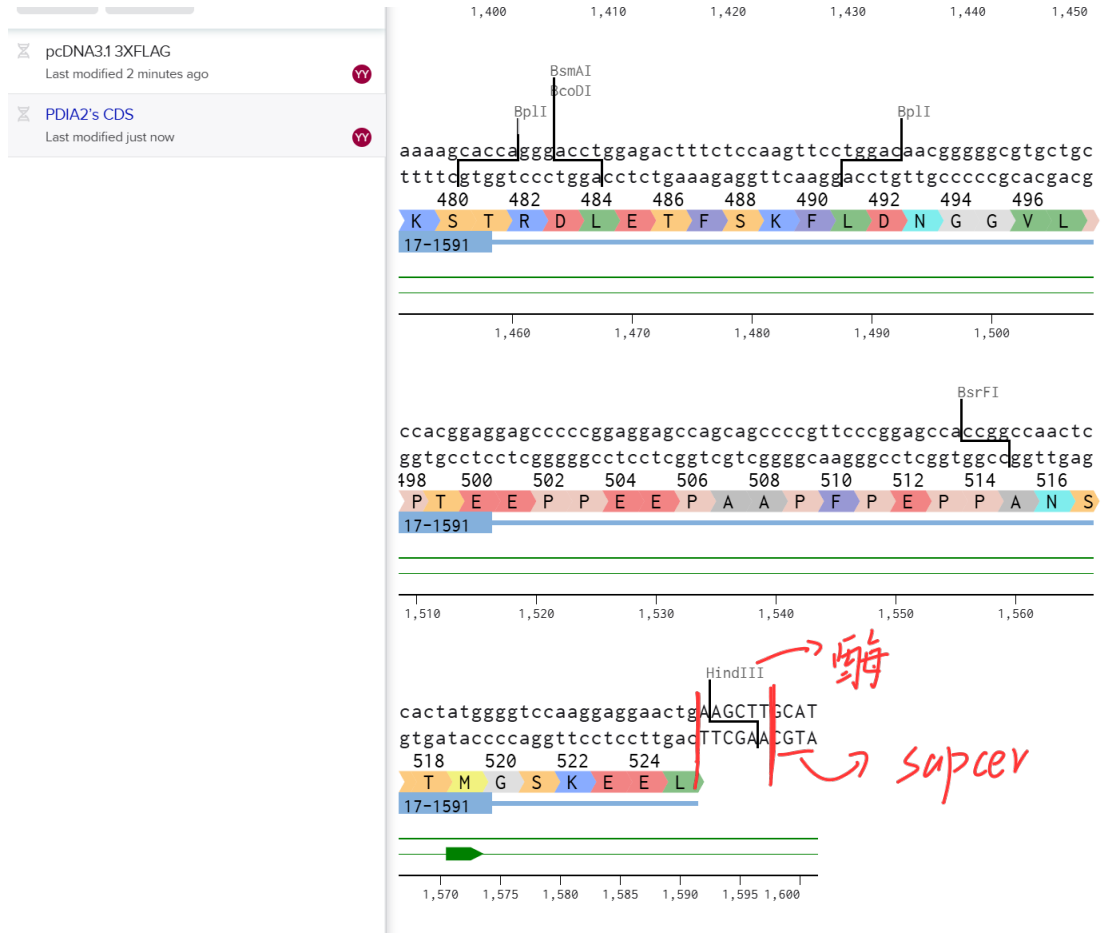
1,5801,590

删除尾部终止子 tag



最末端部分插入 AAGCTTGCAT 删后在末端插入。

如下效果：



打标签：

JBrowse genome browser interface showing the PDIA2 gene. The left sidebar lists projects: pcDNA3.1 3XFLAG and PDIA2's CDS. The main panel shows the sequence map with restriction enzyme sites (NheI, HaeII, NcoI, Hpy188I). A dropdown menu is open, showing options: Create, Analyze, Copy, Create PDF, Annotation, Primer, Translation, New AA sequence, New DNA, New RNA, and New part. Handwritten red notes and arrows indicate the process of labeling a sequence.

Handwritten red notes and arrows:

- ①选中 4个碱基 (Select 4 bases)
- ②Create
- ③Annotation

再打标签(共九个碱基)



Projects /
bpp

Search

Type Filters

pcDNA3.1 3XFLAG
Last modified 2 minutes ago

PDIA2's CDS
Last modified just now



pcDNA3.1 3XFLAG pcDNA3.1 3XFLAG pcDNA3.1 3XFLAG PDIA2's CDS

SEQUENCE MAP

Create Analyze Copy Create PDF

1,490 1,495 1,500 1,505 1,510 1,515

c c c c c g g a g g a g c c a g c a g c c c c g t t c c c g g
g g g g g c c t c c t c g g t c g t c g g g g c a a g g g c c
502 504 506 508 510
P P E E P A A P F P
17-1591

1,520 1,525 1,530 1,535 1,540 1,545 1,550

BsrFI
a g c c a c c g g c c a a c t c c a c t a t g g g g t c c a a
t c g g t g g c c g g t t g a g g t g a t a c c c a g g t t
512 514 516 518 520 522
E P P A N S T M G S K
17-1591

1,555 1,560 1,565 1,570 1,575 1,580

HindIII
g g a g g a a c t g A A G C T T G C A T
c c t c c t t g a c T T C G A A C G T A
524
E E L
17-1591

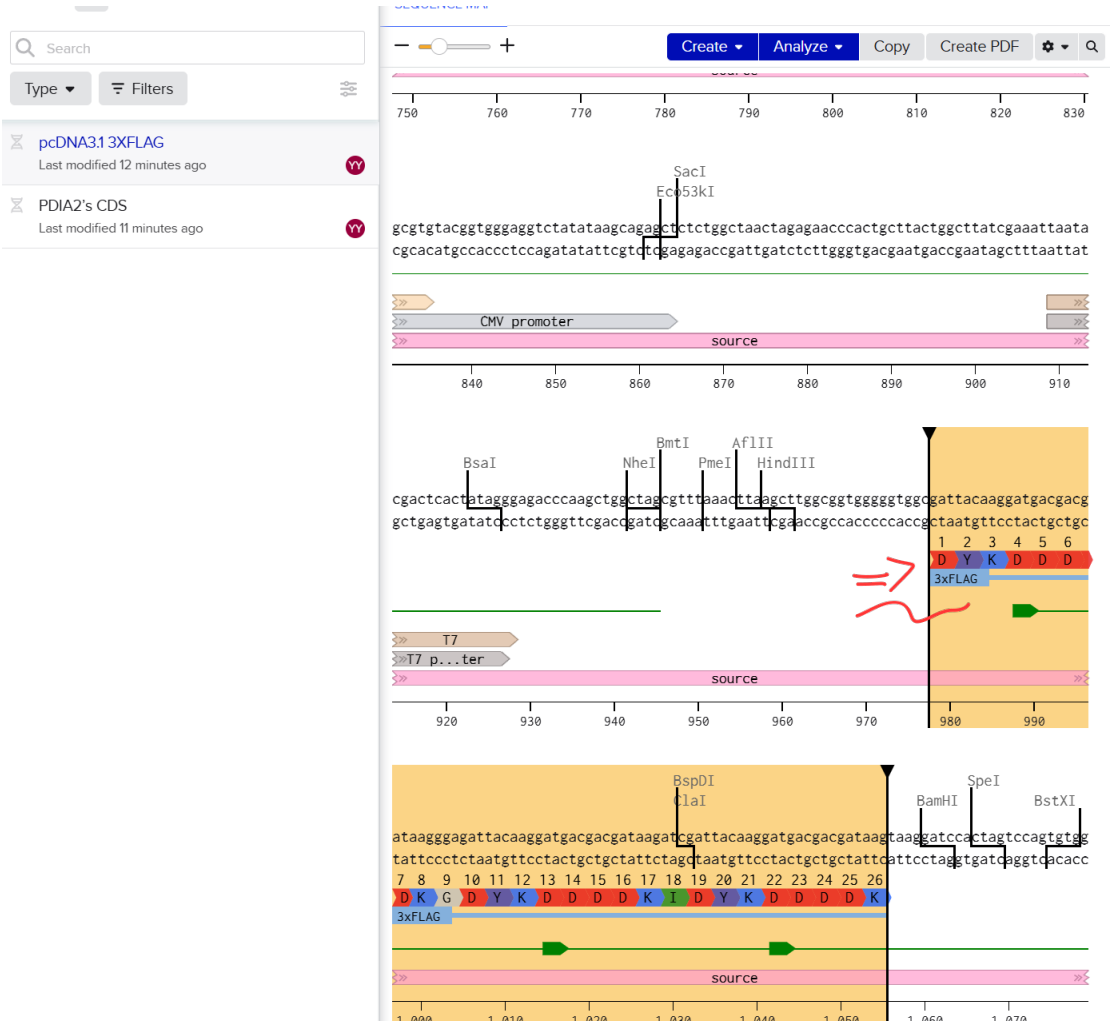
HindIII sapcer
1,585 1,590 1,595 1,600

酶 sapcer

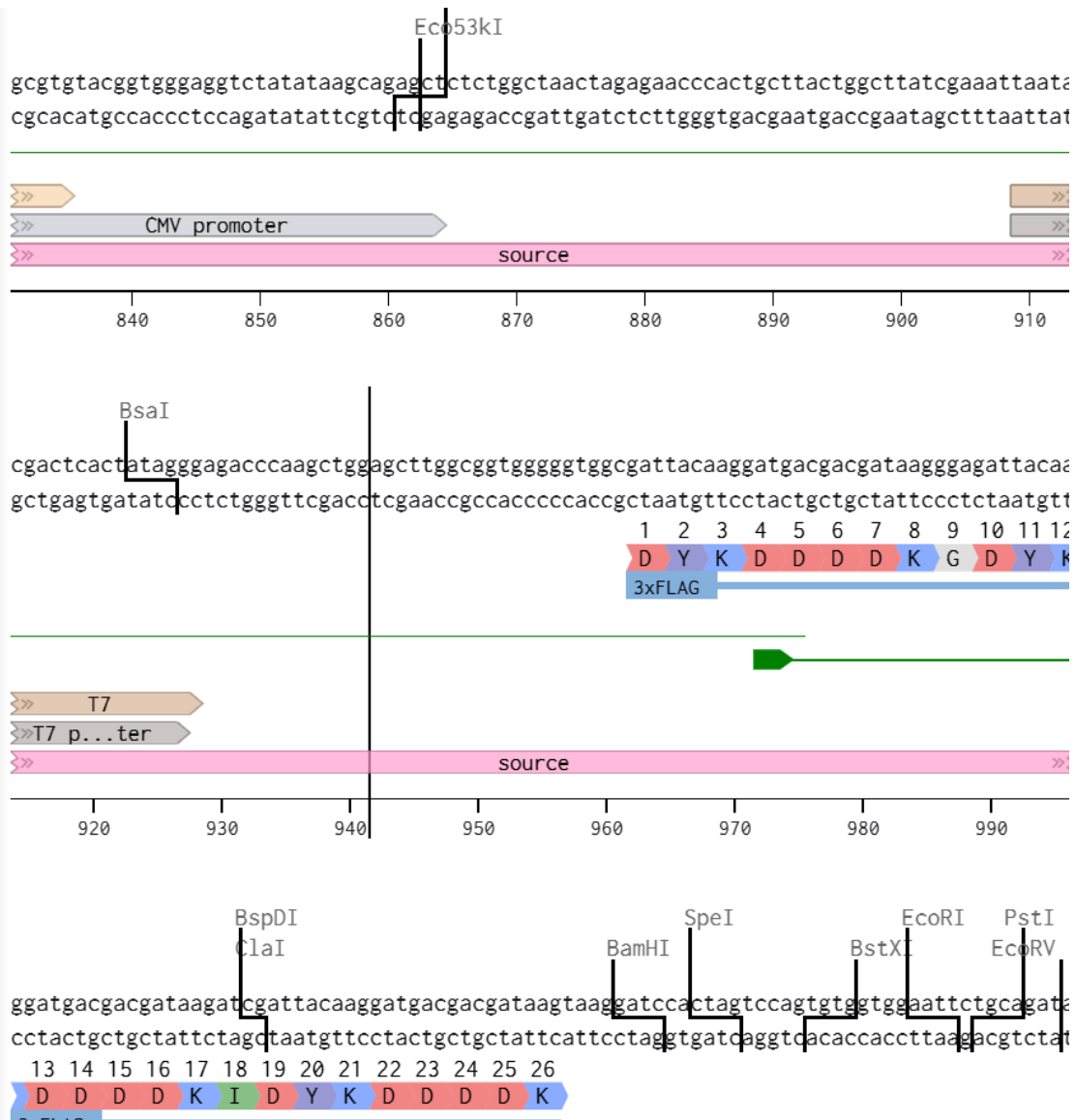
6个 | 4个 打标签

回到: 1.pcDNA3.1 3XFLAG

998 处找到 3xFLAG



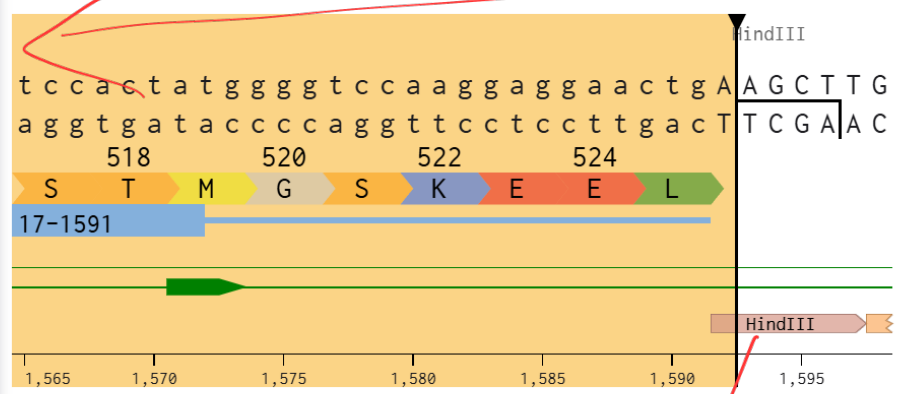
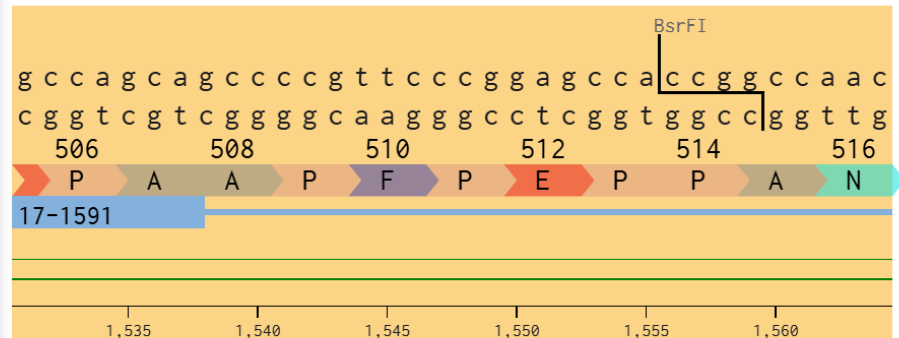
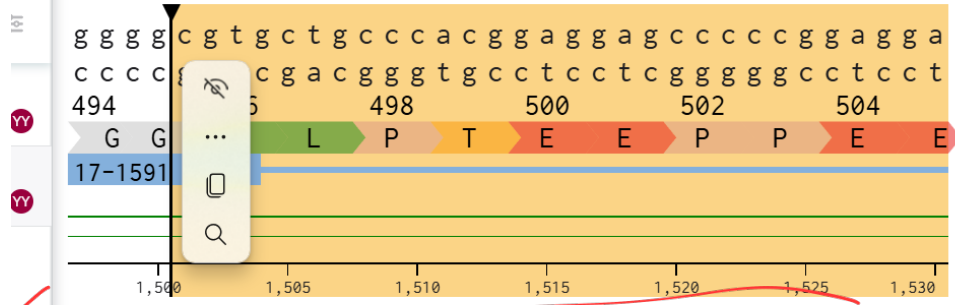
将 NheI ~ HindIII 区间删除



再转到：PDIA2's CDS

选取片段（选取（NheI--HindIII）区间整个片段） 复制

两个酶切位点



E
MmeI, S

SfaNI, B1
BssSI, +
BglI
BstAPI
ApaLI

+1
+1
ApoI
+2
+3

EcoNI

Hir
BsaAI,

BsaH

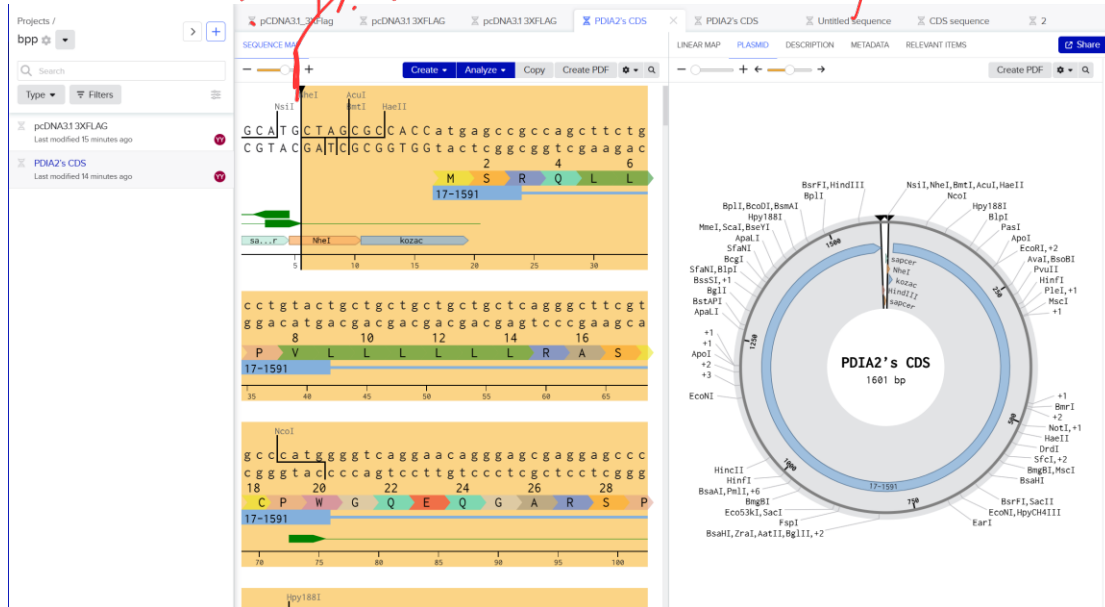
尾部

C A T
G T A

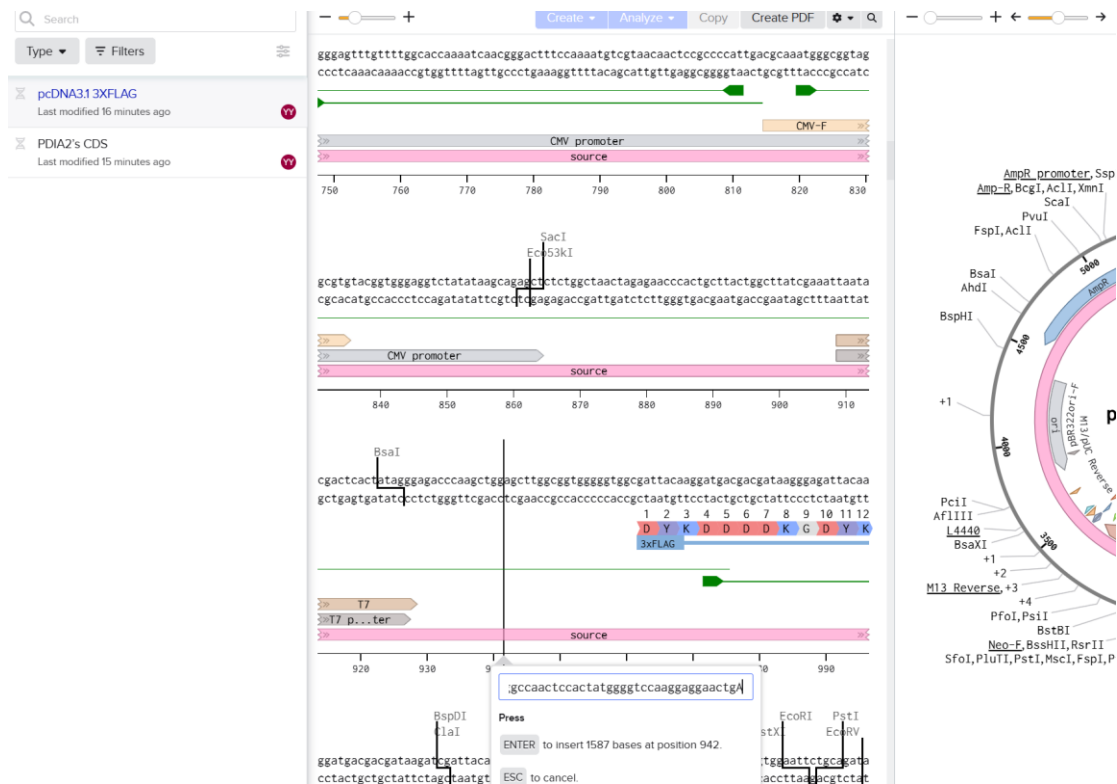
前部全选



头部到此截止 ⇒ 复制



粘贴到 1.pcDNA3.1 3XFLAG 中（刚才那条线处）



如下效果：



2620-2630 区间有终止子可以打个标签:

