

Figure 4: CMV Enhancer (430 - 680)

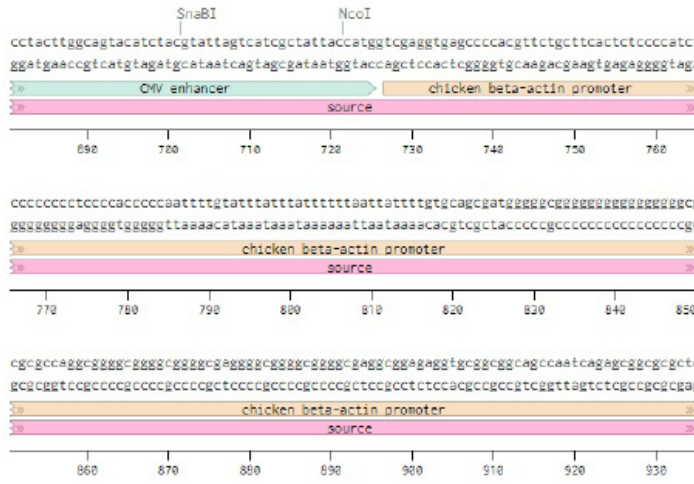


Figure 5: Chicken beta-actin promoter (690 - 930)

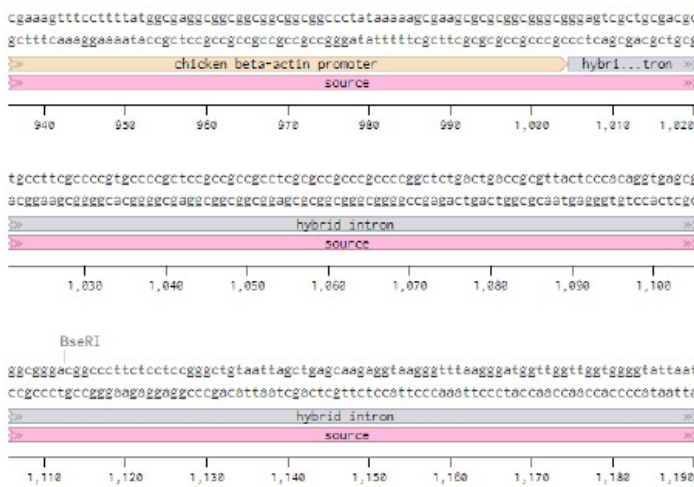


Figure 6: Hybrid intron (940 - 1,190)



Figure 7: 3xFLAG

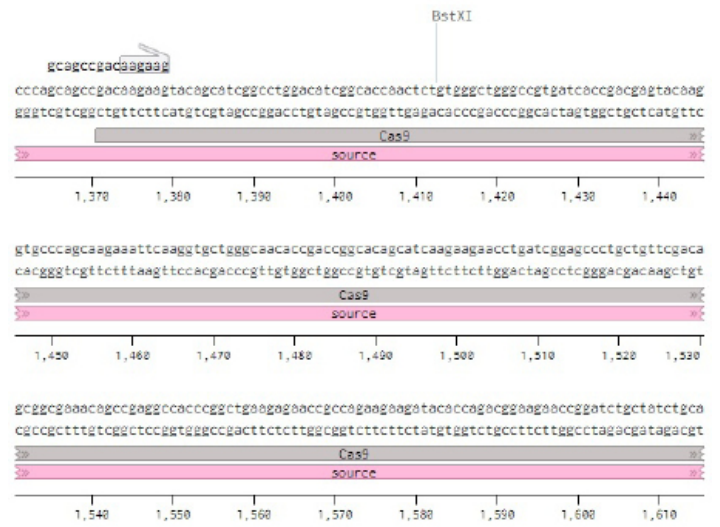


Figure 8: Cas9 (1,370 - 1,610)

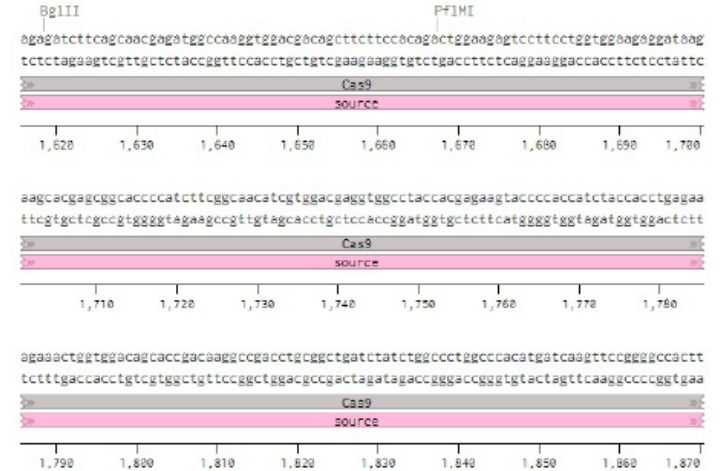


Figure 9: Cas9 (1,620 - 1,870) [BglII]

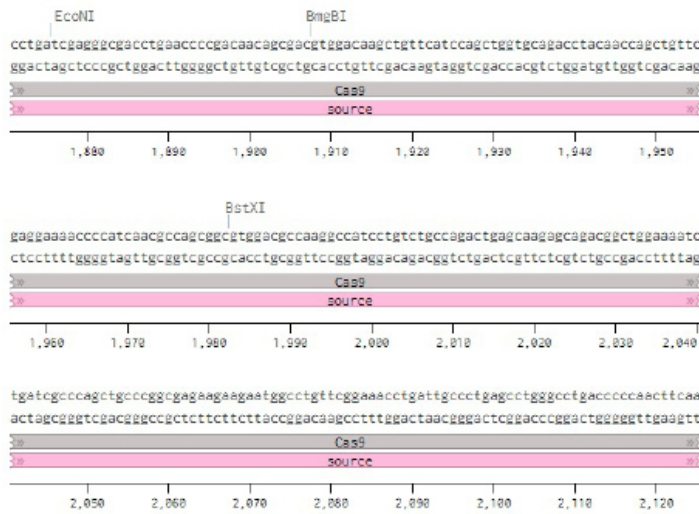


Figure 10: Cas9 (1,880 – 2,120) [EcoNI and BmgBI]

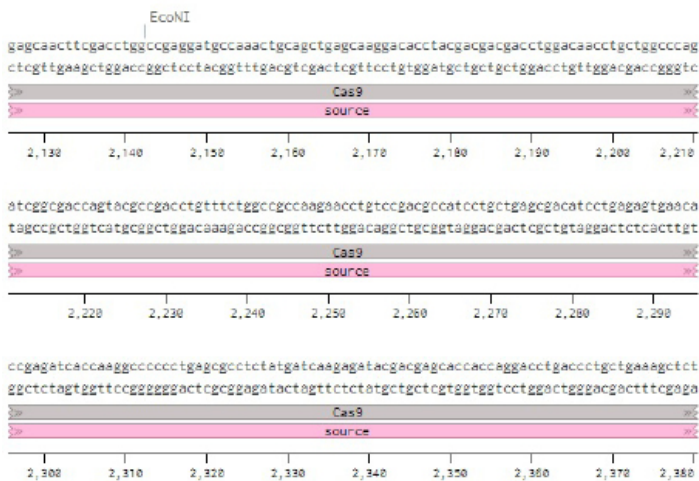


Figure 11: Cas9 (2,130- 2,380) [EcoNI]

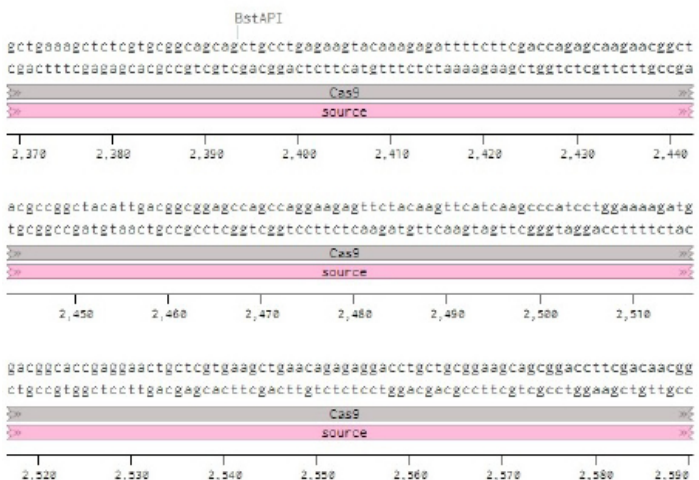


Figure 12: Cas9 (2,370 – 2,590) [BstAPI]

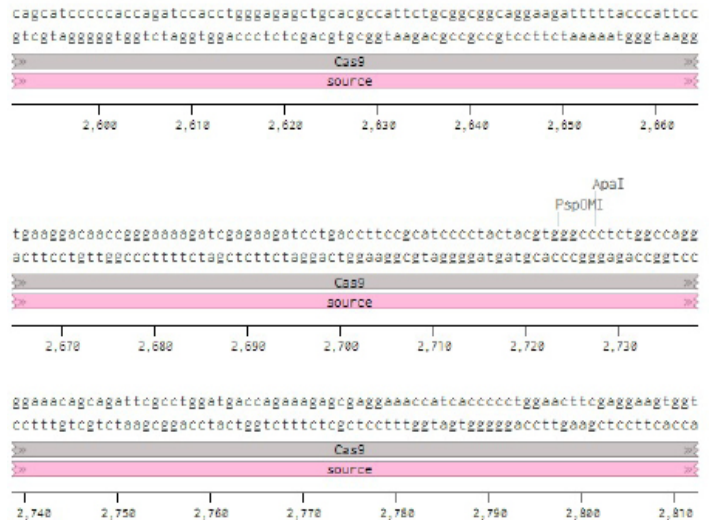


Figure 13: Cas9 (2,600 – 2,810) [ApaI]

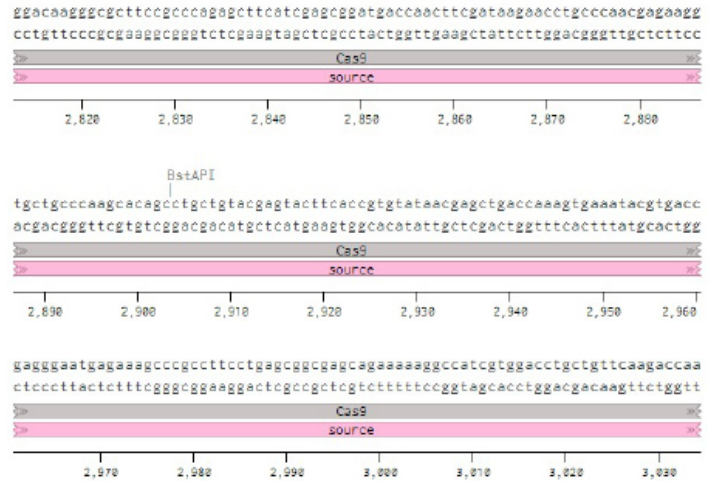


Figure 14: Cas9 (2,820 – 3,030)

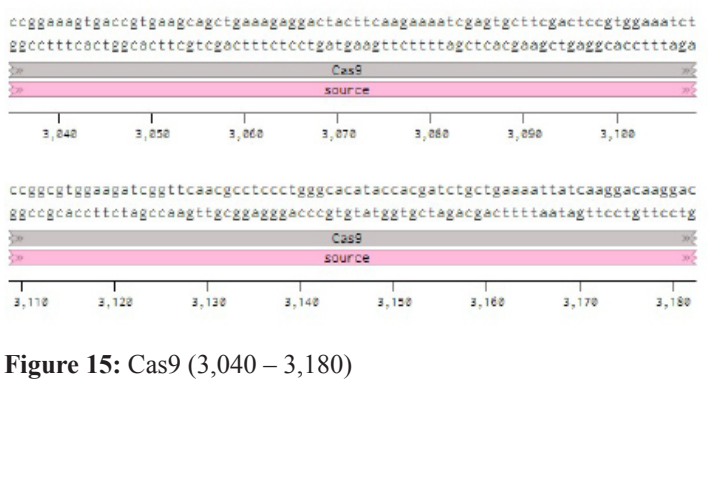


Figure 15: Cas9 (3,040 – 3,180)

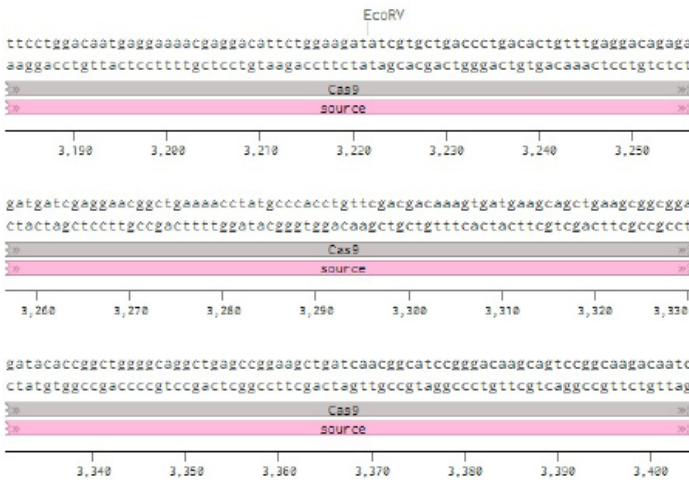


Figure 16: Cas9 (3,190 – 3,400) [EcoRV]

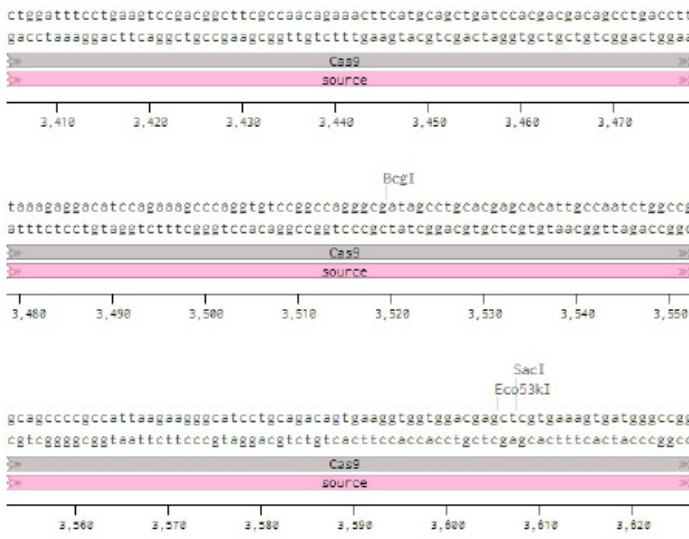


Figure 17: Cas9 (3,410 – 3,620)

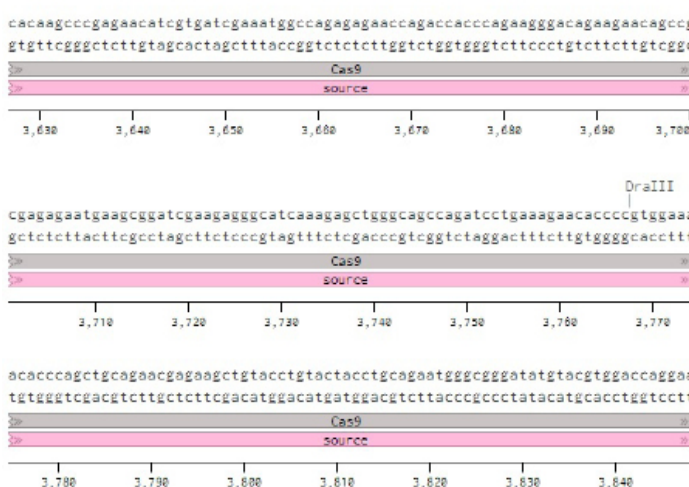


Figure 18: Cas9 (3,630 – 3,840)

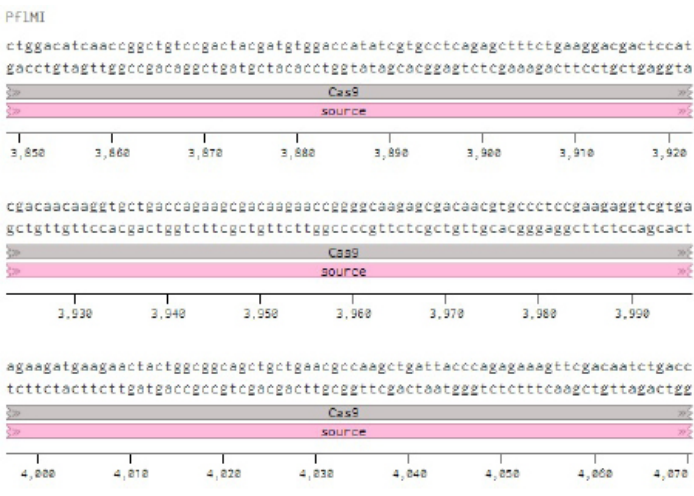


Figure 19: Cas9 (3,850 – 4,070) [pflMI]

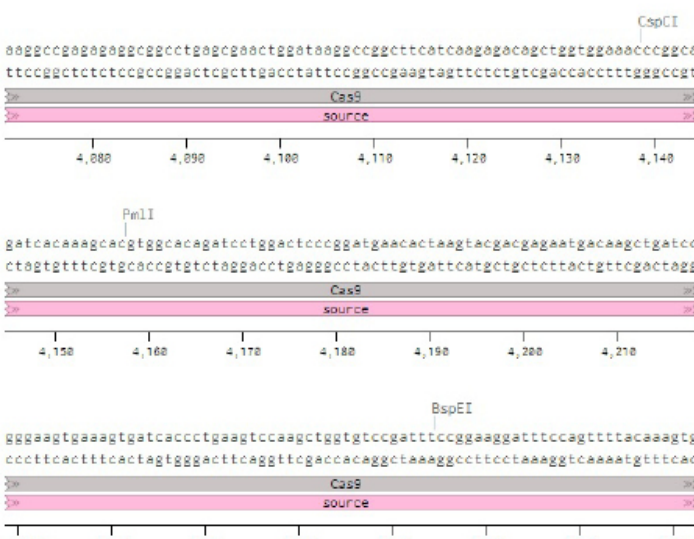


Figure 20: Cas9 (4,080 – 4,290) [PmlI]

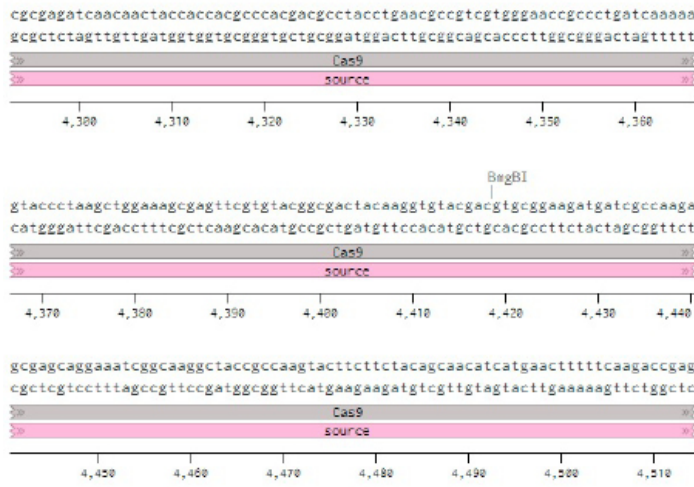


Figure 21: Cas9 (4,300 – 4,510)

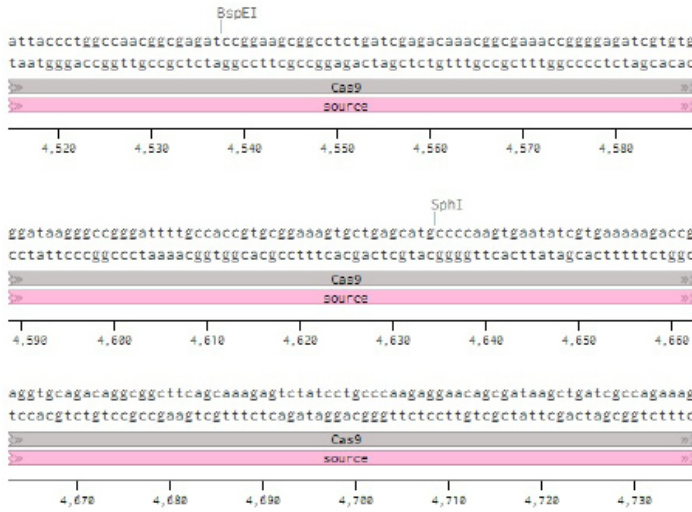


Figure 22: Cas9 (4,520 – 4,730)

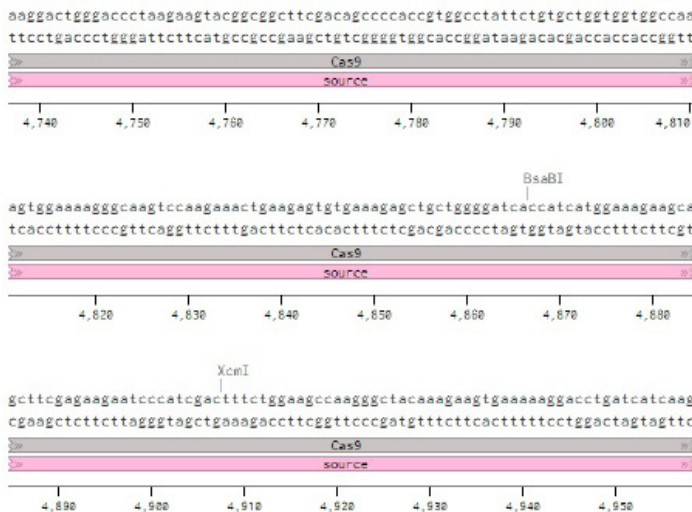


Figure 23: Cas9 (4,740 – 4,950)

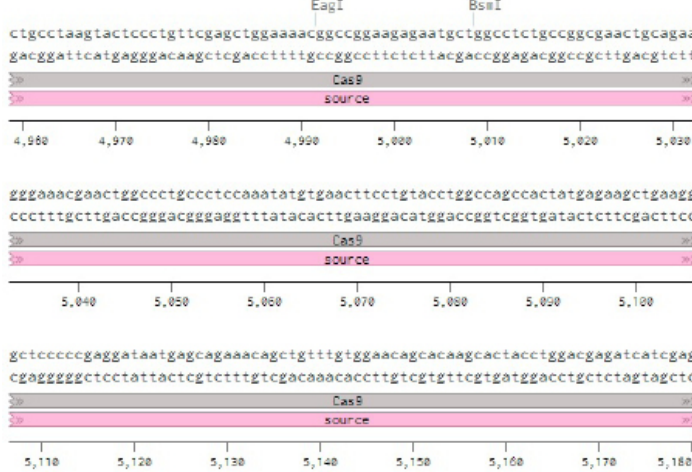


Figure 24: Cas9 (4,960 – 5,180)

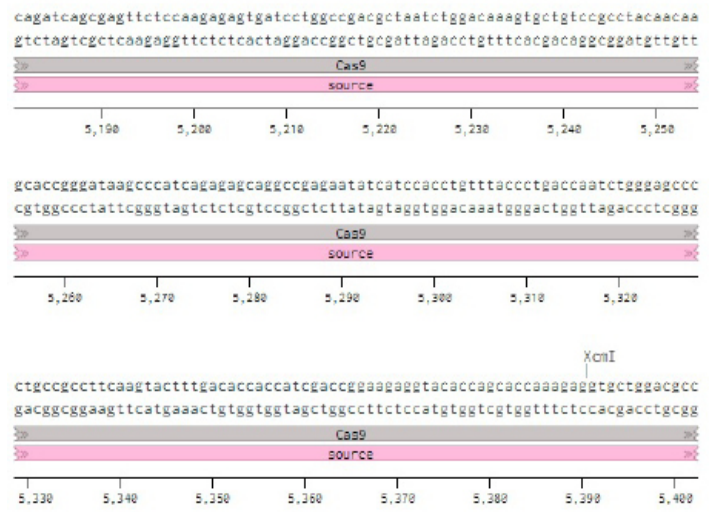


Figure 25: Cas9 (5,190 – 5,400)



Figure 26: Nucleoplasm NLS (5,410 – 5,620)

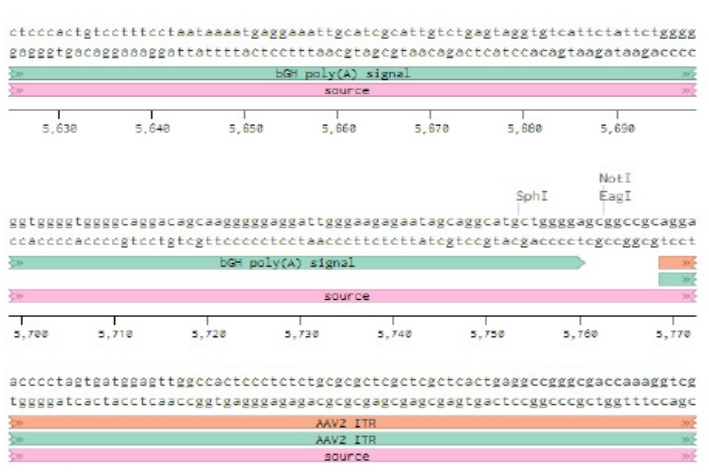


Figure 27: bGH poly(A) signal (5,630 – 5,840)

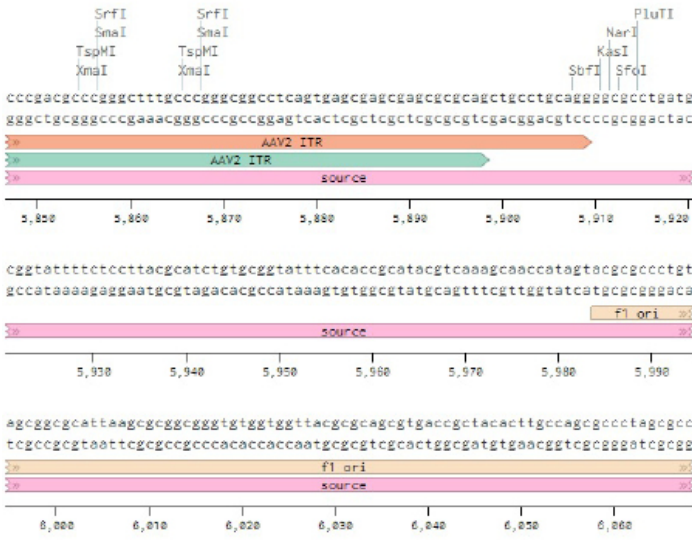


Figure 28: AAV2 ITR (5,850 – 6,060)

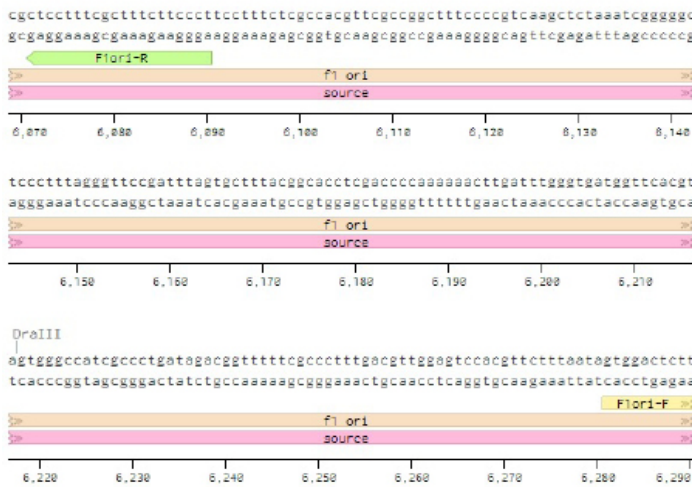


Figure 29: fl ori (6,070 – 6,290)



Figure 30: pRS-marker (6,300 – 6,510)

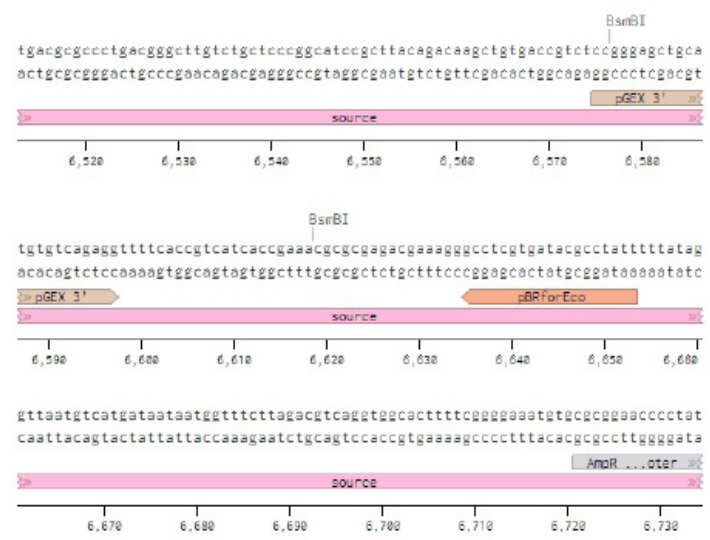


Figure 31: pGEX 3' (6,520 – 6,730)



Figure 32: AmpR promoter (6,740 – 6,950)

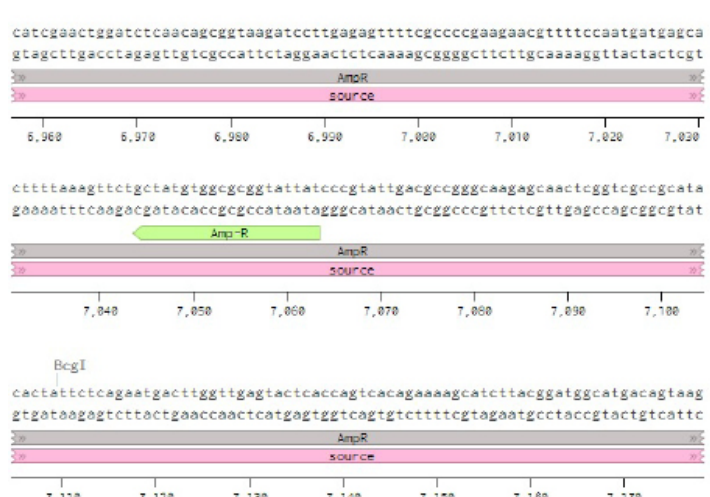


Figure 33: AmpR promoter (6,960 – 7,170)

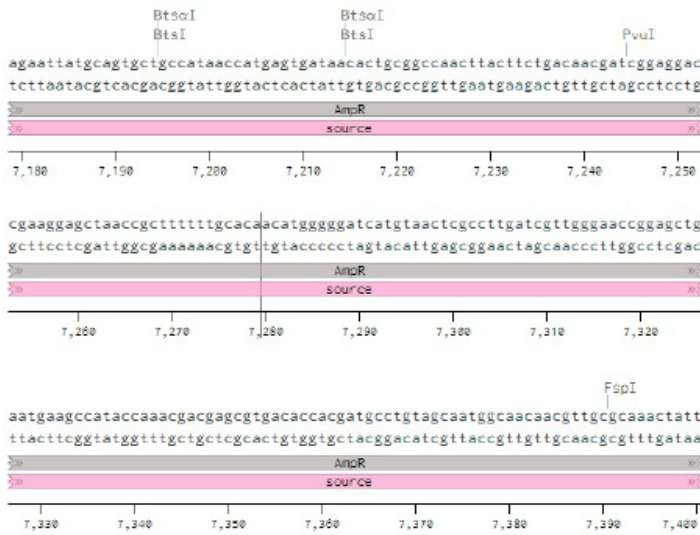


Figure 34: AmpR promoter (7,180 – 7,400) [BtsI]

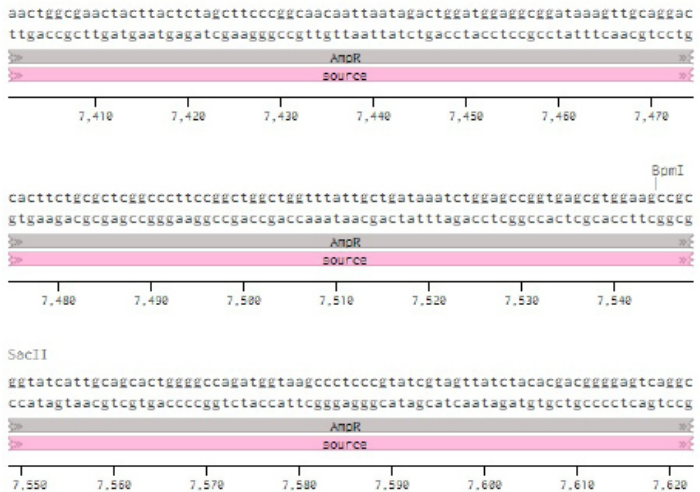


Figure 35: AmpR promoter (7,410 – 7,620)

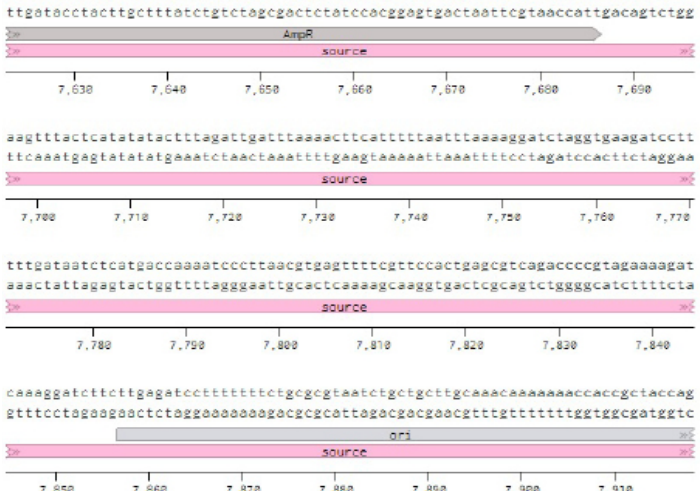


Figure 36: AmpR promoter (7,630 – 7,910)

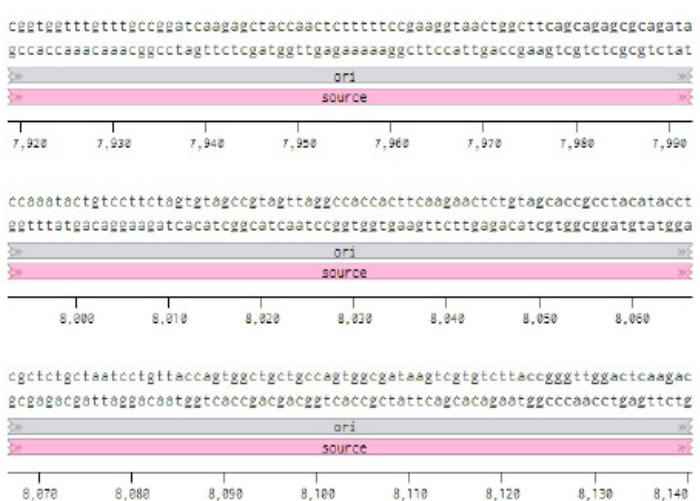


Figure 37: ori (7,920 – 8,140)

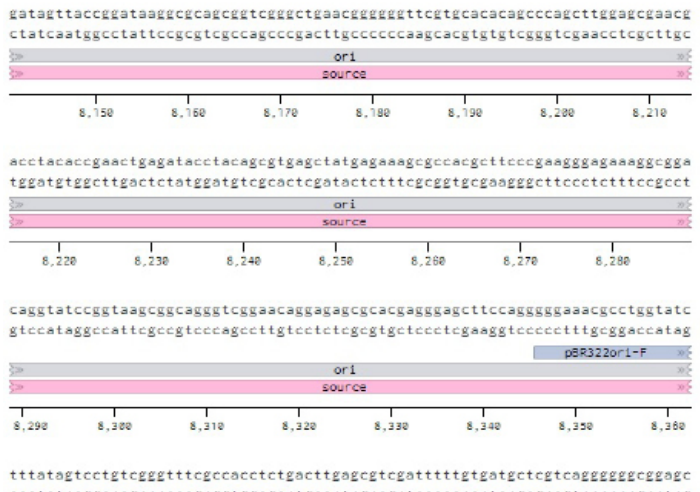


Figure 38: ori (8,150 – 8,360)

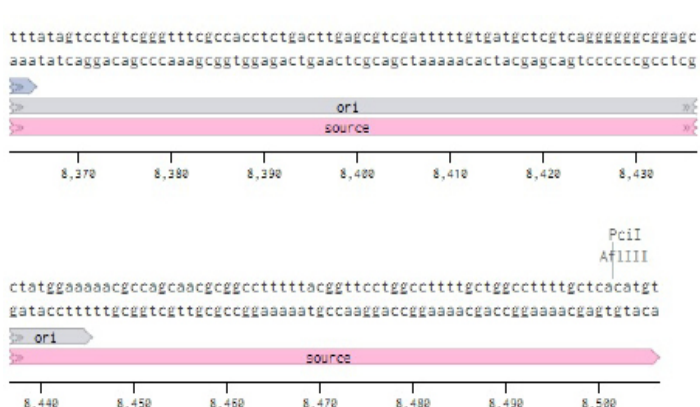


Figure 39: ori (8,370 – 8,500)

Conflicts of Interest

There is no conflict of interest as per Author's point of view.

Acknowledgements

Author would like to thank Prof. Navarun Gupta for their academic support. Author also thanks anonymous reviewers for their comments.

CONCLUSION

Below is the sequence discussed on high level of

1. BstXI, BglII, PflMI
2. EcoNI, BmgBI, BstXI
3. EcoNI
4. BstAPI
5. PspOMI
6. ApaI
7. BstAPI
8. EcoRV
9. BcgI
10. Eco53kI, SacI
11. DraIII
12. PflMI
13. CspCI, PmII
14. BspEI
15. BmgEI
16. BspEI, SphI
17. BsaBI
18. XcmI, EagI, BsmI
19. XcmI

20. nucleoplasmin NLS, BGH-rev, FseI, +3
21. bGH poly(A) signal, +19
22. fl ori, F1ori-F, DraIII, PsiI
23. pRS-marker, SspI
24. pGEX 3', pBRforEco, +2
25. AmpR promotor
26. SspI
27. BcgI
28. BtsI, BtsaI, BtsI, +2
29. FspI
30. BpmI
31. SacII
32. ori
33. pBR322ori-F
34. hU6-F, Af1III, PciI
35. U6 promotor, LK0.15', +3
36. gRNA scaffold, XbaI, +2
37. CMV enhancer, NdeI
38. chicken beta-actin promotor, +2
39. hybrid intron, +6

References

1. Addgene (2020) Addgene: Zhang lab CRISPR. <https://www.addgene.org/crispr/zhang/>
2. Benchling (2019) <https://benchling.com/>
3. pX330-U6-Chimeric_BB-CBh-hSpCas9 was a gift from Feng Zhang (Addgene plasmid # 42230; <http://n2t.net/addgene:42230>; RRID: Addgene_42230)

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