



Control-5A18NP1

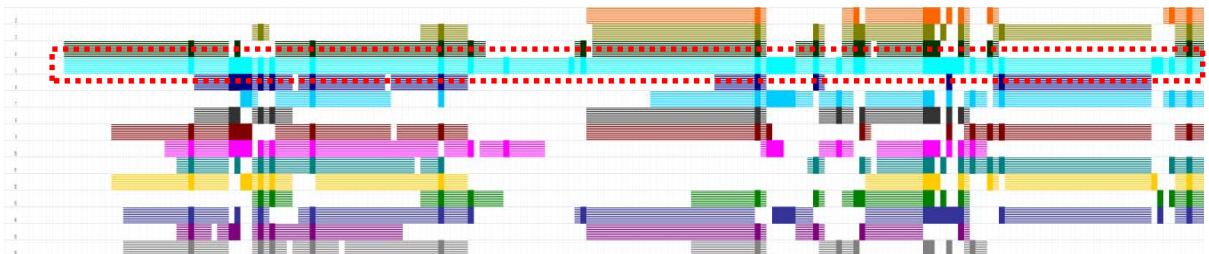
5A18NP1D28M1B3 – A representative recombinant from infection with 5A18NP1, the parental strain, Silent cassettes 3, 6, 7, 9, 11, and 12 appear to be used.



Variants recovered from animals infected with *ruvA* mutant

Animal 1-*ruvA*

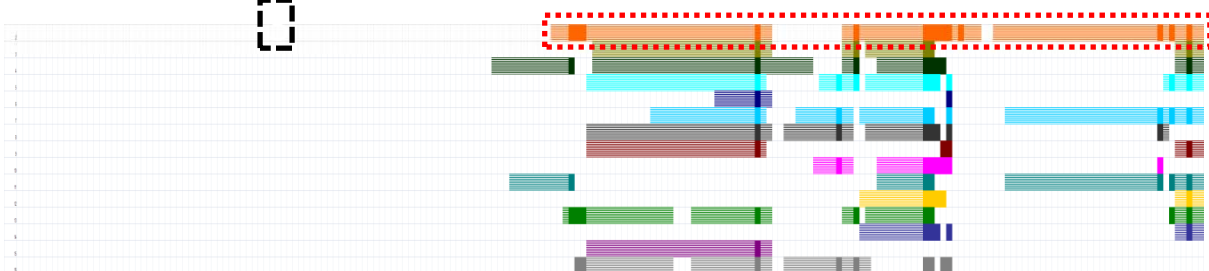
ruvA1D28M1S4 – 12 siblings, One large recombination with *vls5* from VR-I to VR-VI



Animal 2-*ruvA*

ruvA1D28M2J1 – 9 siblings, 3 untemplated codon changes but no templated changes

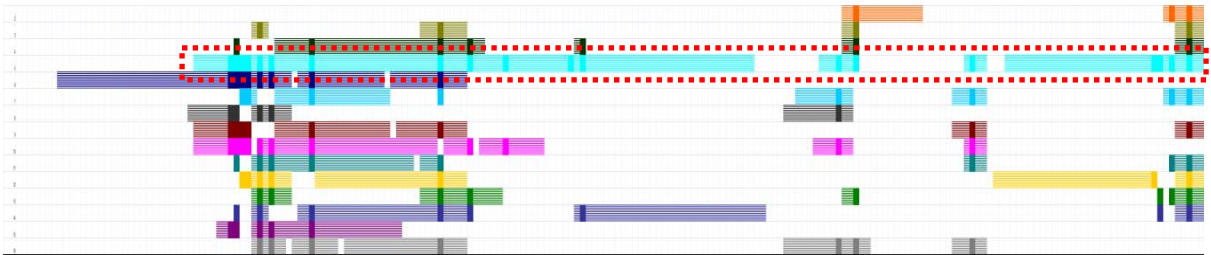
ruvA1D28M2J3 – 8 siblings, same untemplated changes as in ruvA1D28M2J01 +
one large intermittent recombination with *vls2* from VR-III to VR-VI



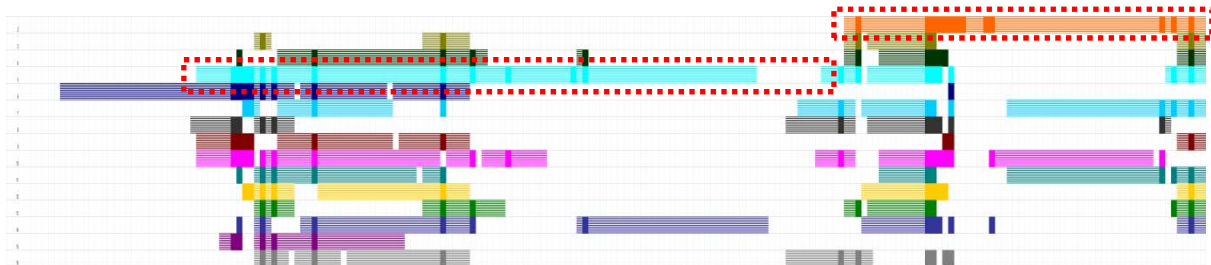


Animal 3-*ruvA*

ruvA1D28M3J2 – 38 siblings, One large intermittent recombination from VR-I to VR-VI with silent cassette *v/s5*

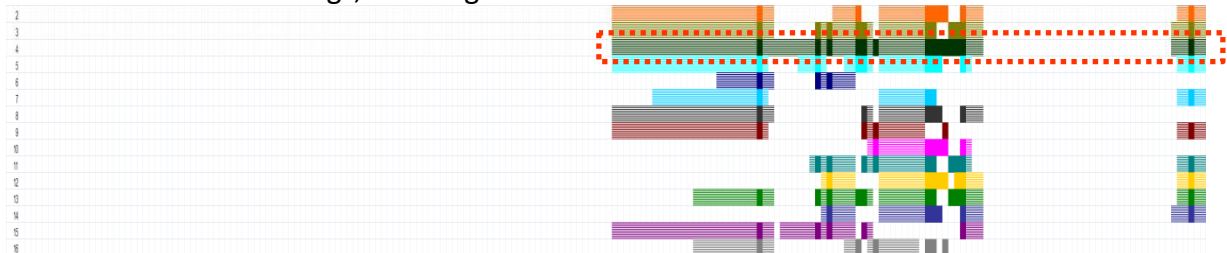


ruvA1D28M3S2 – 13 siblings, One large intermittent recombination from VR-IV to VR-V as in ruvA1D28M3J02 + 2nd recombination with *v/s2*



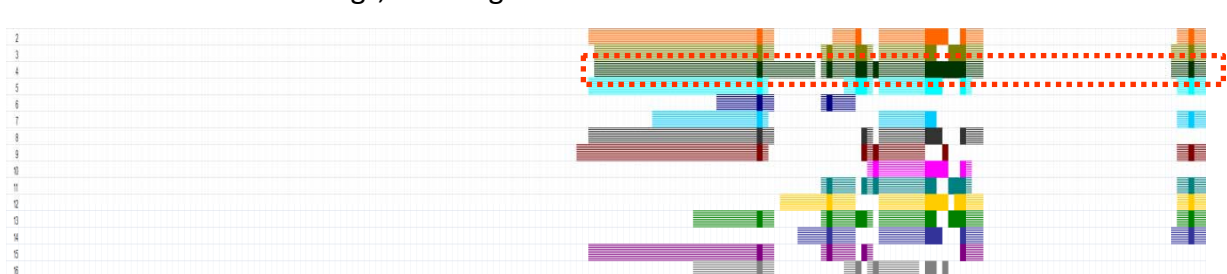
Animal 4-*ruvA*

ruvA1D28M4J5– 8 siblings, One large intermittent recombination with *v/s4* from VR-IV to VR-VI



Animal 5-*ruvA*

ruvA1D28M5H1– 13 siblings, One large intermittent recombination with *v/s4* from VR-IV to VR-VI



Animal 6-*ruvA*

ruvA1D28M6B2 – 10 siblings, One large intermittent recombination with *v/s2* from VR-III to VR-VI





Variants recovered from animals infected with *ruvB* mutant

