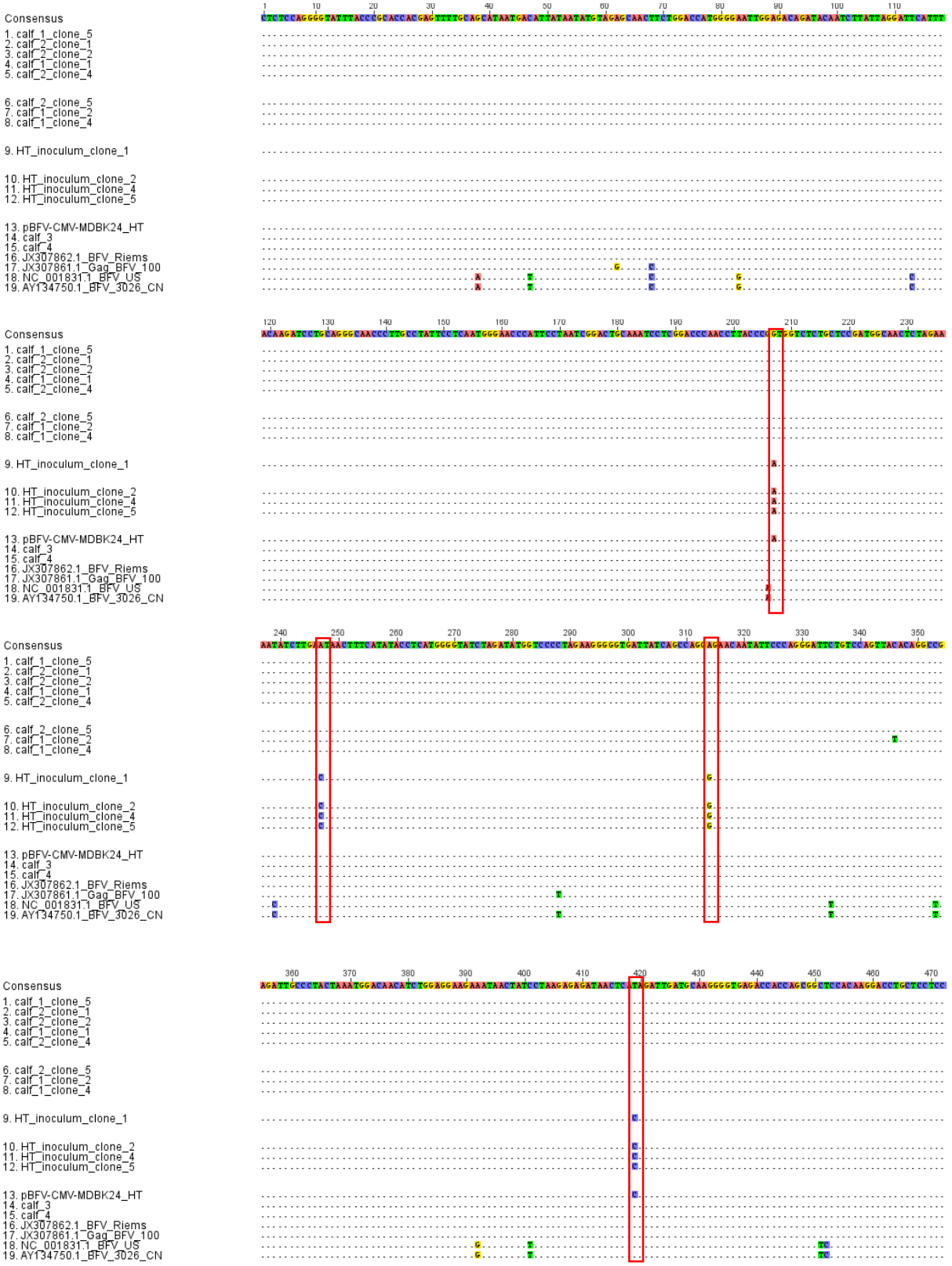
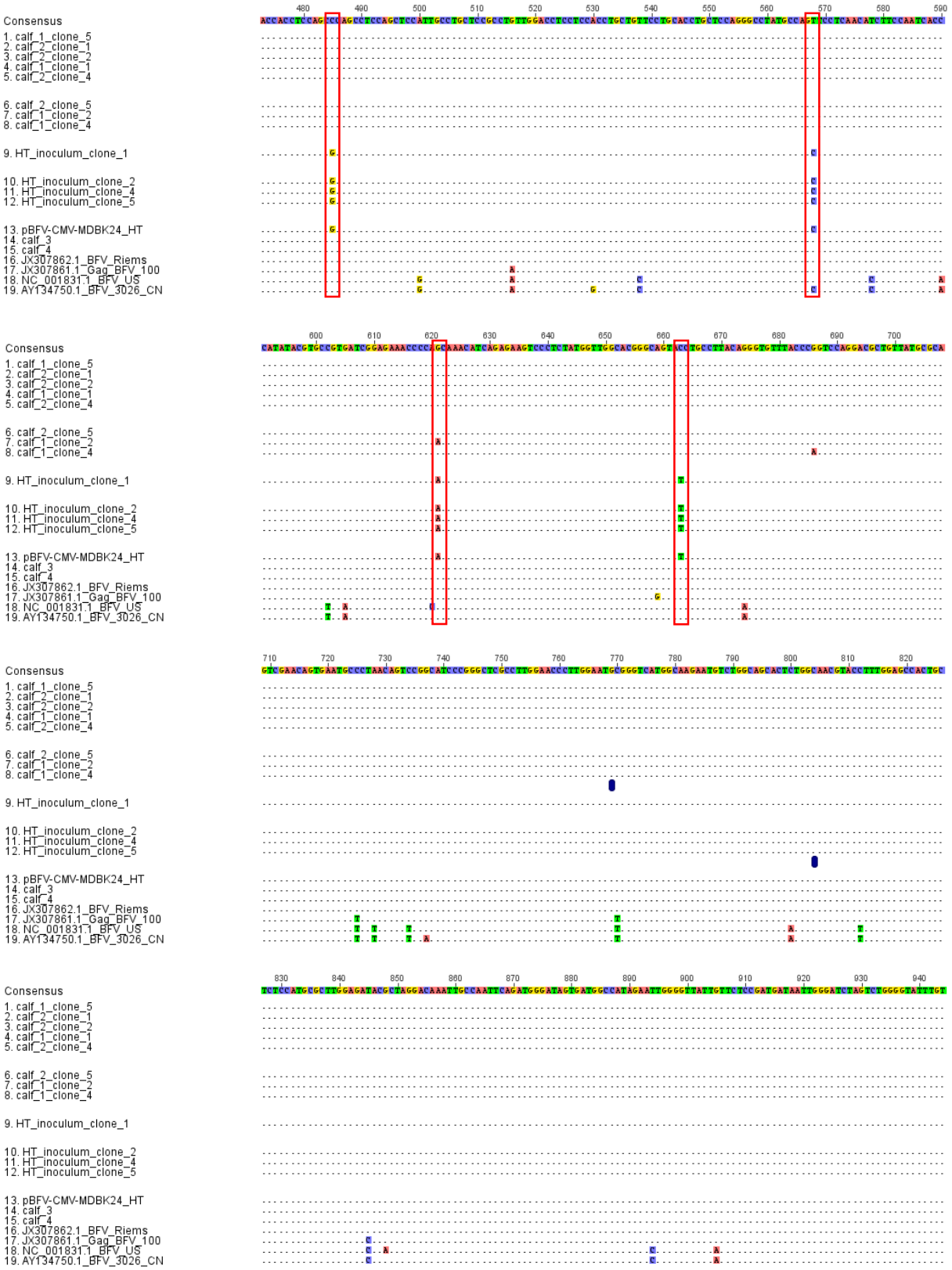
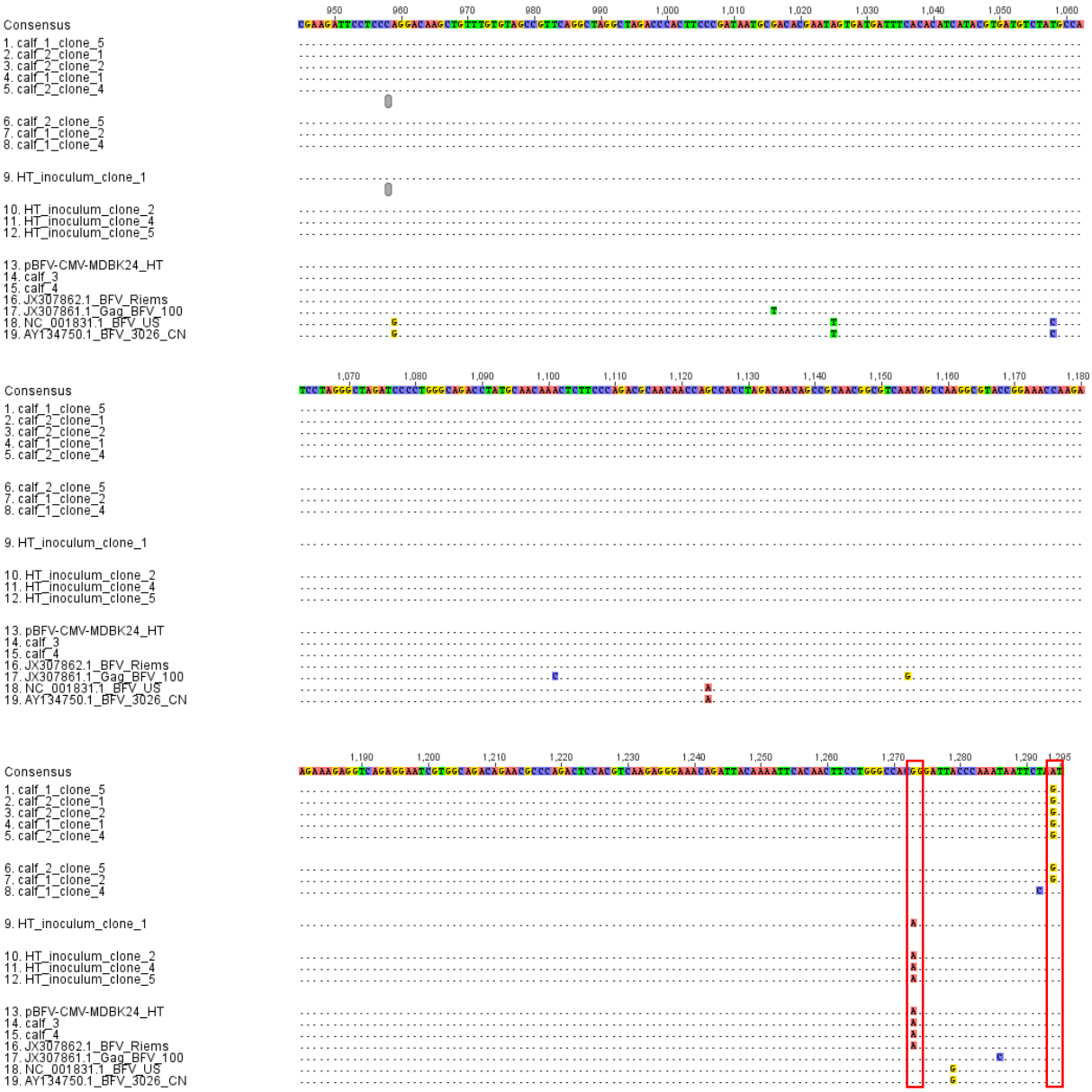
Figure S2. Alignment of 1295 bp nucleotide sequence of BFVbta *gag* gene amplified from calves two weeks post inoculation with HT BFVbta Riems (calves 1 and 2) and wt BFVbta Riems (calves 3 and 4) variants as well as HT BFVbta Riems inoculum (HT inoculum) used for inoculation of calves 1 and 2. Red boxes indicate the sites where adaptive mutations in HT BFVbta infected calves were noted. Dark blue bars indicate insertions and gray bars deletions leading to frame-shift mutations. Reference sequences were as follows: pBFV-CMV-MDBK24_HT [1] and GenBank derived: JX307862.1_BFV Riems; JX307861.1_BFV100; NC001831.1_BFV_US; AY134750.1 BFV_3026_CN.




Consensus
1. calf_1_clone_5
2. calf_2_clone_1
3. calf_2_clone_2
4. calf_1_clone_1
5. calf_2_clone_4
6. calf_2_clone_5
7. calf_1_clone_2
8. calf_1_clone_4
9. HT_inoculum_clone_1
10. HT_inoculum_clone_2
11. HT_inoculum_clone_4
12. HT_inoculum_clone_5
13. pBFV-CMV-MDBK24_HT
14. calf_3
15. calf_4
16. JX307862.1_BFV_Riems
17. JX307861.1_Gag_BFV_100
18. NC_001831.1_BFV_US
19. AY134750.1_BFV_3026_CN


950 960 970 980 990 1,000 1,010 1,020 1,030 1,040 1,050 1,060
Consensus
1. calf_1_clone_5
2. calf_2_clone_1
3. calf_2_clone_2
4. calf_1_clone_1
5. calf_2_clone_4
6. calf_2_clone_5
7. calf_1_clone_2
8. calf_1_clone_4
9. HT_inoculum_clone_1
10. HT_inoculum_clone_2
11. HT_inoculum_clone_4
12. HT_inoculum_clone_5
13. pBFV-CMV-MDBK24_HT
14. calf_3
15. calf_4
16. JX307862.1_BFV_Riems
17. JX307861.1_Gag_BFV_100
18. NC_001831.1_BFV_US
19. AY134750.1_BFV_3026_CN
1,070 1,080 1,090 1,100 1,110 1,120 1,130 1,140 1,150 1,160 1,170 1,180
Consensus
1. calf_1_clone_5
2. calf_2_clone_1
3. calf_2_clone_2
4. calf_1_clone_1
5. calf_2_clone_4
6. calf_2_clone_5
7. calf_1_clone_2
8. calf_1_clone_4
9. HT_inoculum_clone_1
10. HT_inoculum_clone_2
11. HT_inoculum_clone_4
12. HT_inoculum_clone_5
13. pBFV-CMV-MDBK24_HT
14. calf_3
15. calf_4
16. JX307862.1_BFV_Riems
17. JX307861.1_Gag_BFV_100
18. NC_001831.1_BFV_US
19. AY134750.1_BFV_3026_CN
1,190 1,200 1,210 1,220 1,230 1,240 1,250 1,260 1,270 1,280 1,290 1,295
Consensus
1. calf_1_clone_5
2. calf_2_clone_1
3. calf_2_clone_2
4. calf_1_clone_1
5. calf_2_clone_4
6. calf_2_clone_5
7. calf_1_clone_2
8. calf_1_clone_4
9. HT_inoculum_clone_1
10. HT_inoculum_clone_2
11. HT_inoculum_clone_4
12. HT_inoculum_clone_5
13. pBFV-CMV-MDBK24_HT
14. calf_3
15. calf_4
16. JX307862.1_BFV_Riems
17. JX307861.1_Gag_BFV_100
18. NC_001831.1_BFV_US
19. AY134750.1_BFV_3026_CN