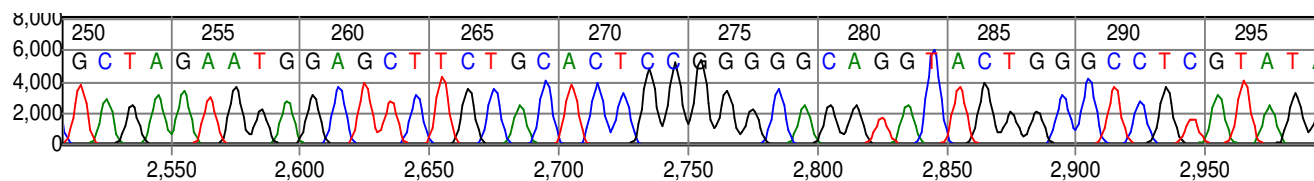
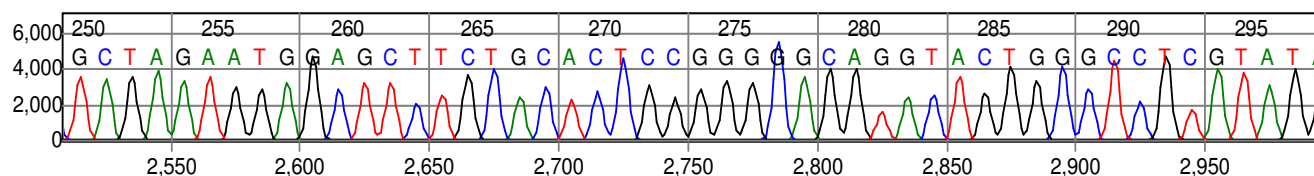


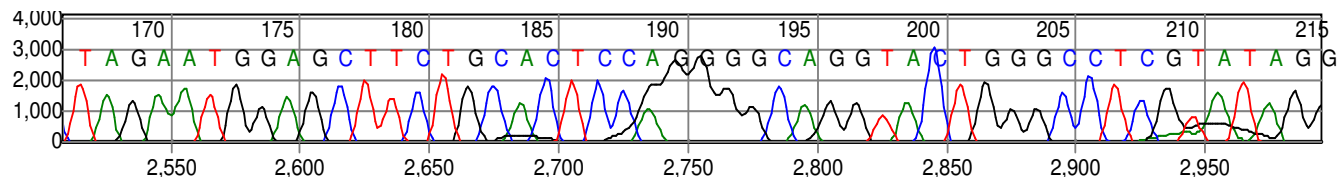
1R--> DCLRE1C_e6_F_Synthesis_241.scf-->



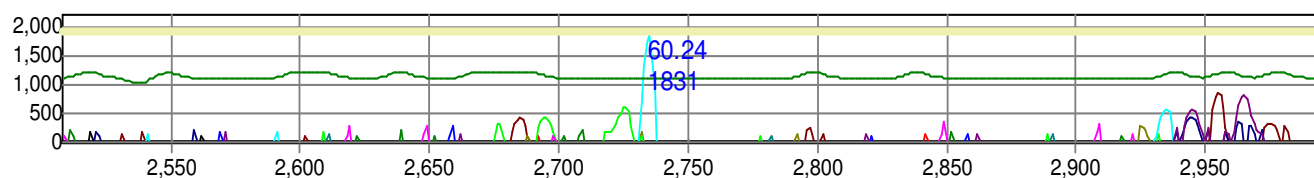
1R<-- DCLRE1C_e6_R_Synthesis_218.scf<--



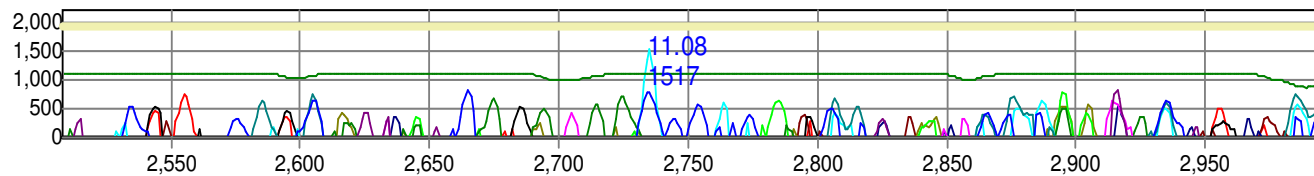
1S--> DCLRE1C_6F_AP0262_A01.ab1-->



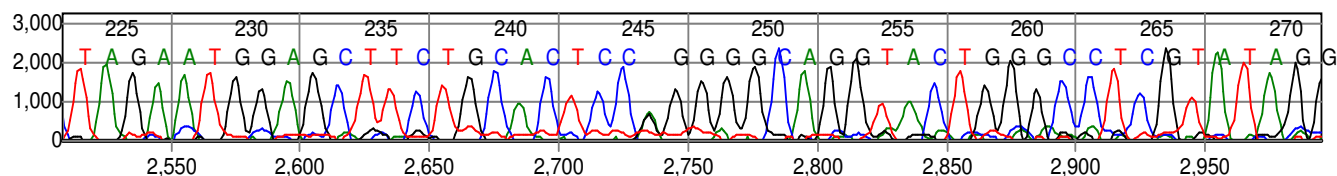
1S--> DCLRE1C_6F_AP0262_A01.ab1 Mutations: 274G>GA\$60.2



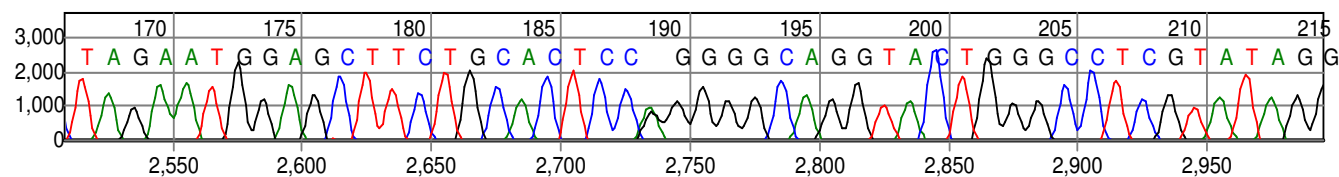
1S<-- DCLRE1C_6R_AP0262_A02.ab1 Mutations: 274G>GA\$11.1



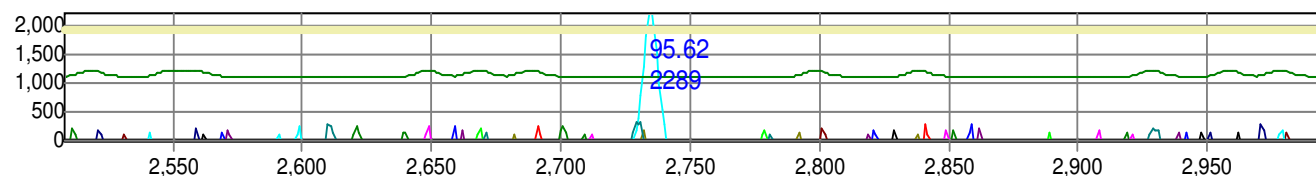
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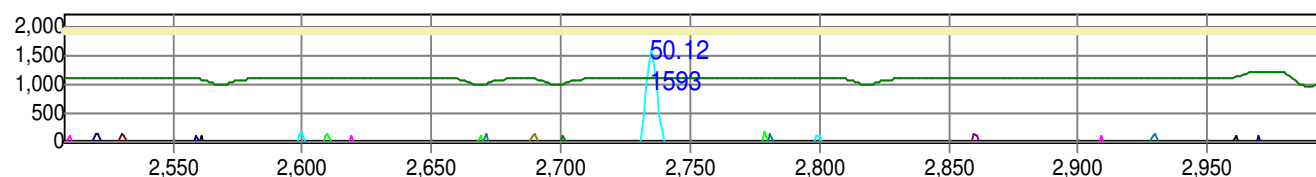
1S--> DCLRE1C_6F_PR0204_F01.ab1-->



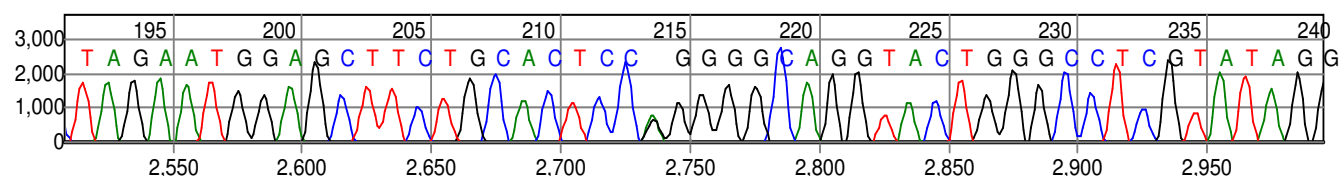
1S--> DCLRE1C_6F_PR0204_F01.ab1 Mutations: 274G>GA\$95.6



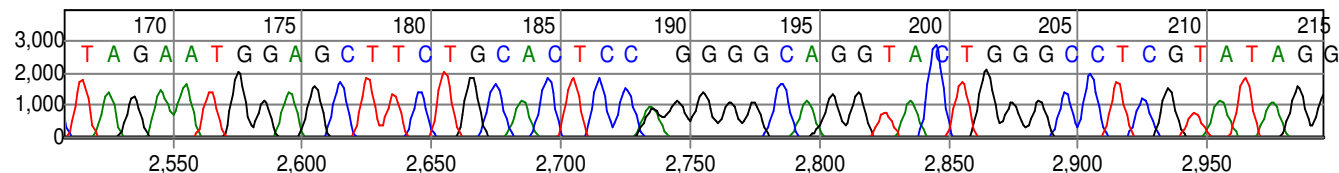
1S<-- DCLRE1C_6R_PR0204_F02.ab1 Mutations: 274G>GA\$50.1



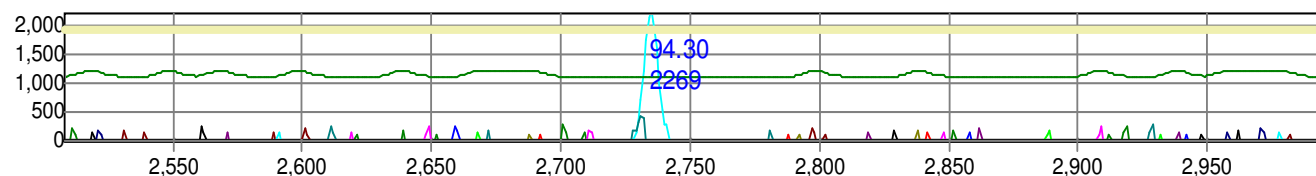
1S<-- DCLRE1C_6R_PR0204_F02.ab1<--



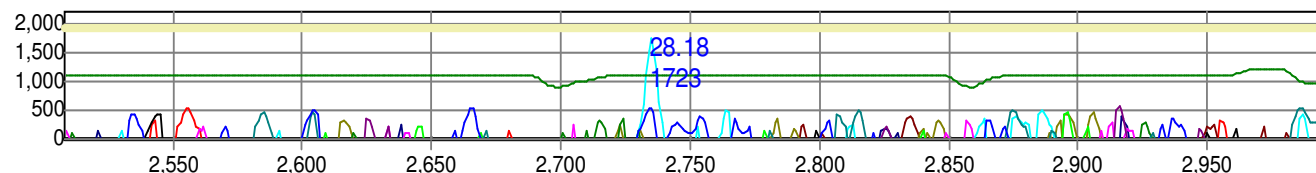
1S--> DCLRE1C_6F_SOAP0467_C01.ab1-->



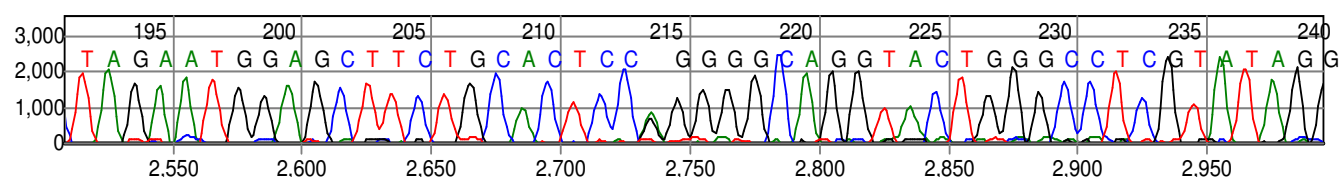
1S--> DCLRE1C_6F_SOAP0467_C01.ab1 Mutations: 274G>GA\$94.3



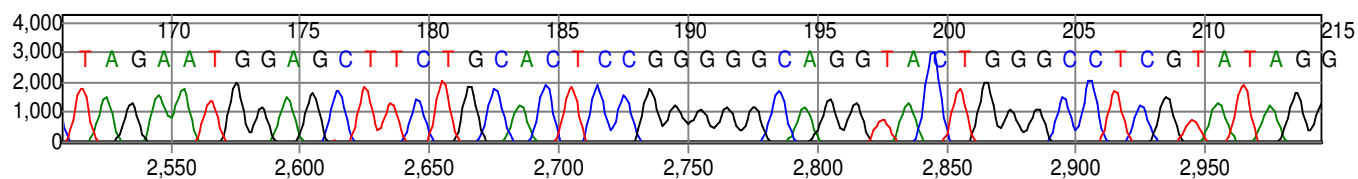
1S<-- DCLRE1C_6R_SOAP0467_C02.ab1 Mutations: 274G>GA\$28.2



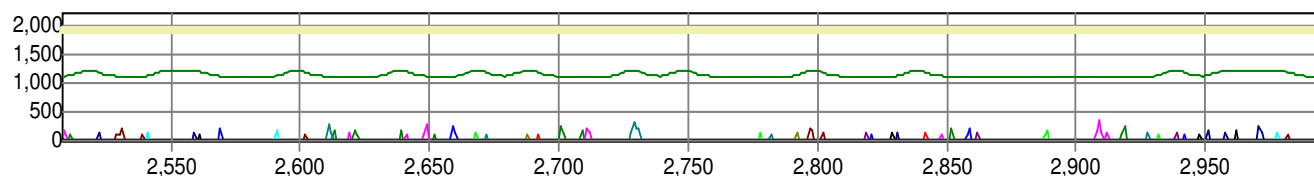
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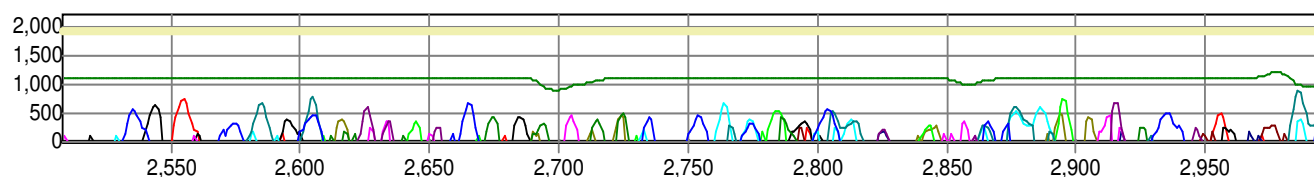
1S--> DCLRE1C_6F_SONP0093_B01.ab1-->



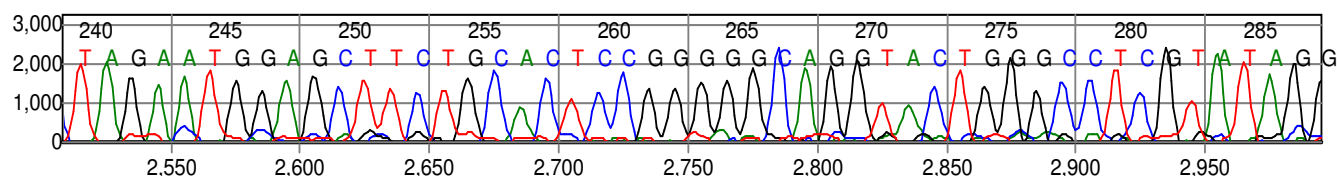
1S--> DCLRE1C_6F_SONP0093_B01.ab1



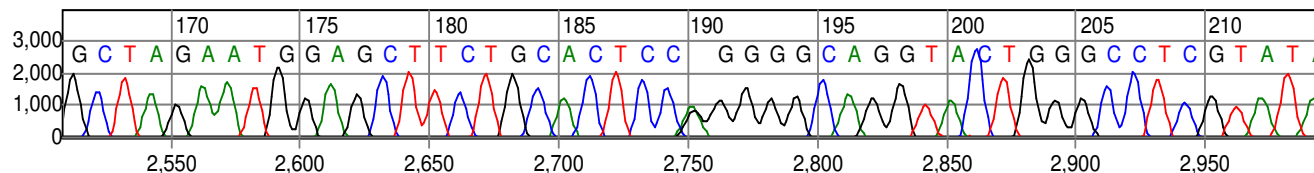
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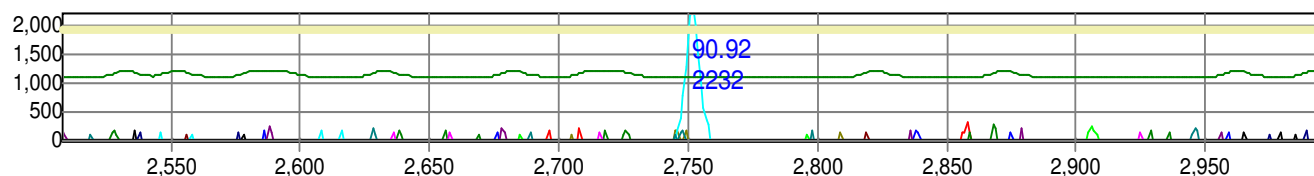
1S<-- DCLRE1C_6R_SONP0093_B02.ab1<--



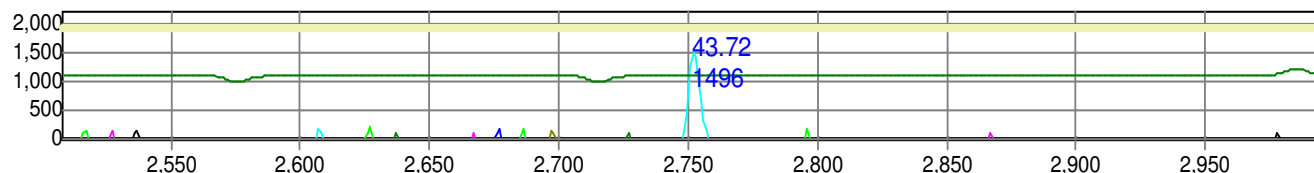
1S--> DCLRE1C_6F_SOPR0381_G01.ab1-->



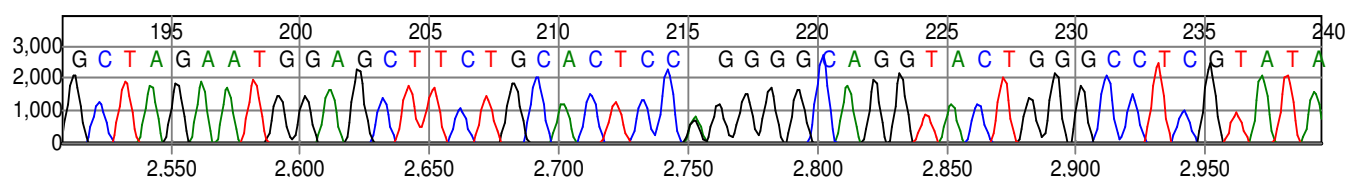
1S--> DCLRE1C_6F_SOPR0381_G01.ab1 Mutations: 274G>GA\$90.9



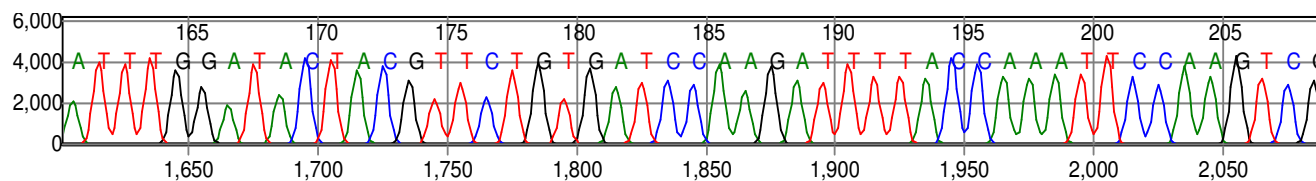
1S<-- DCLRE1C_6R_SOPR0381_G02.ab1 Mutations: 274G>GA\$43.7



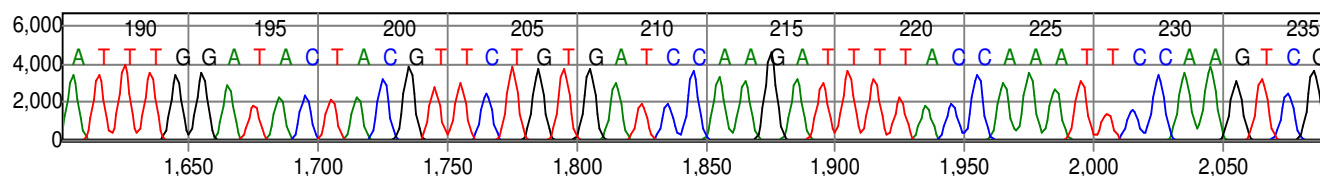
1S<-- DCLRE1C_6R_SOPR0381_G02.ab1<--



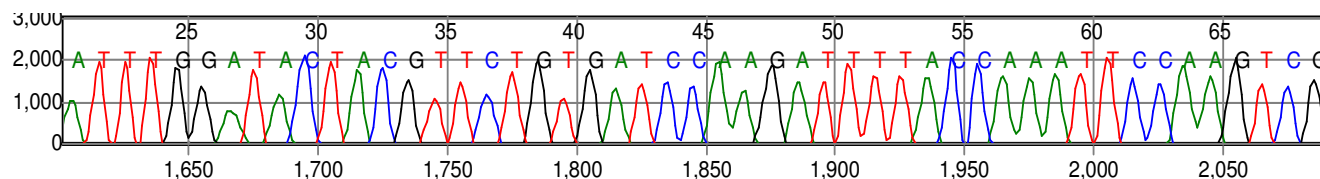
1R--> DCLRE1C_e7_F_Synthesis_234.scf-->



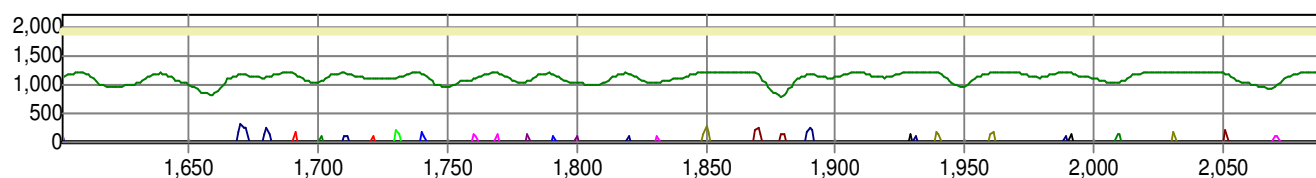
1R<-- DCLRE1C_e7_R_Synthesis_234.scf<--



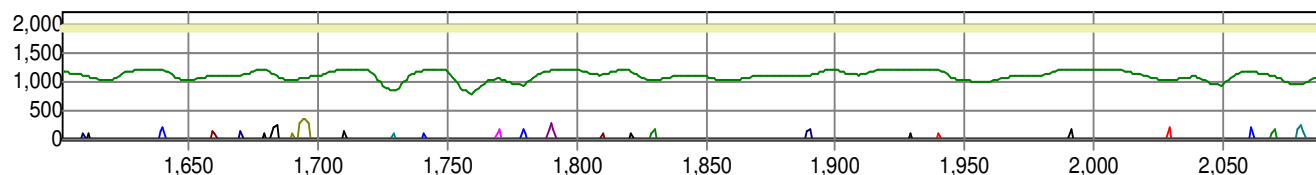
1S--> DCLRE1C_7F_AP0262_A03.ab1-->



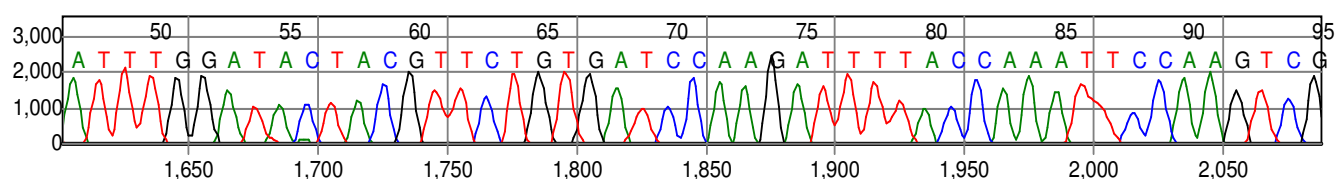
1S--> DCLRE1C_7F_AP0262_A03.ab1



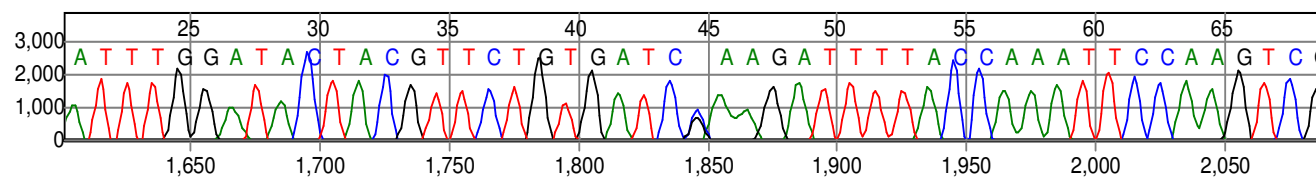
1S<-- DCLRE1C_7R_AP0262_A04.ab1



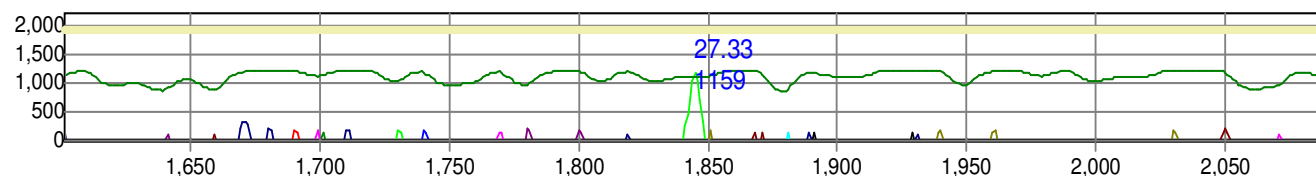
1S<-- DCLRE1C_7R_AP0262_A04.ab1<--



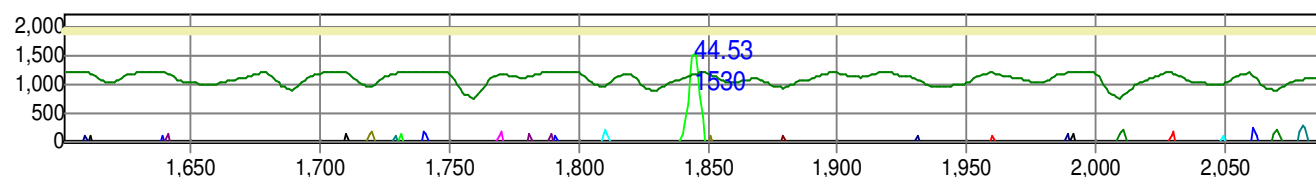
1S--> DCLRE1C_7F_PR0204_F03.ab1-->



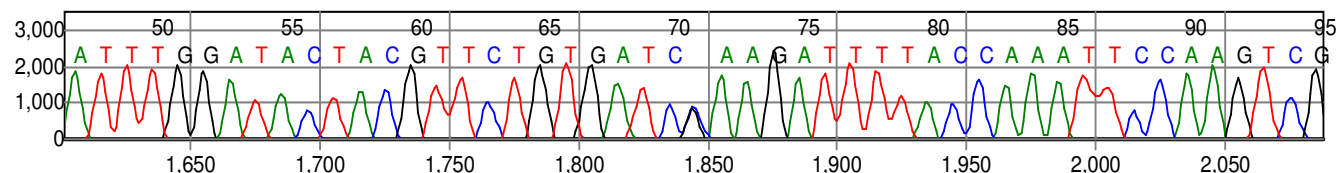
1S--> DCLRE1C_7F_PR0204_F03.ab1 Mutations: 228C>CG\$27.3



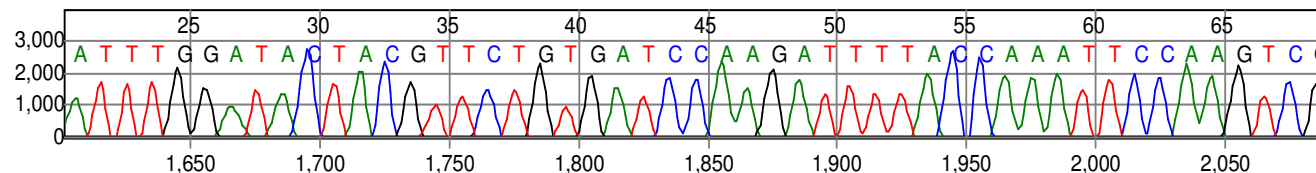
1S<-- DCLRE1C_7R_PR0204_F04.ab1 Mutations: 228C>CG\$44.5



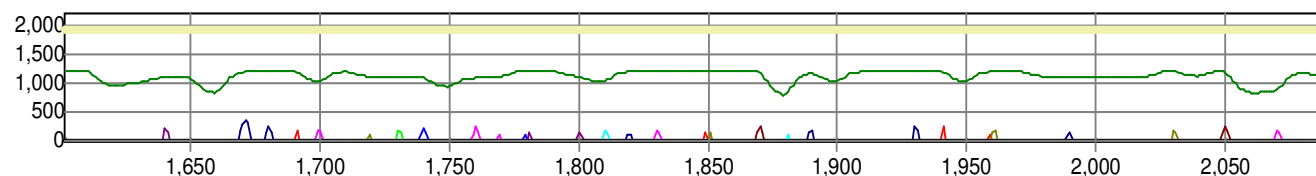
1S<-- DCLRE1C_7R_PR0204_F04.ab1<--



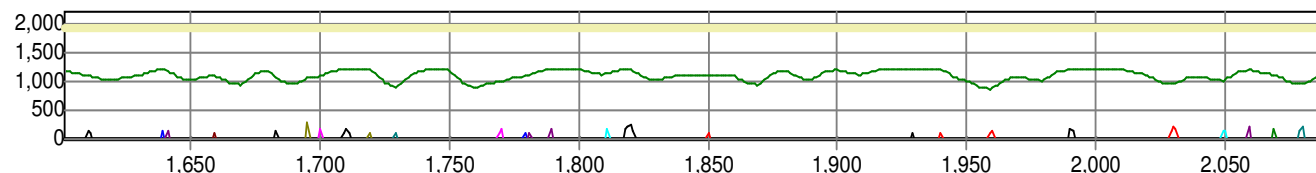
1S--> DCLRE1C_7F_SOAP0467_C03.ab1-->



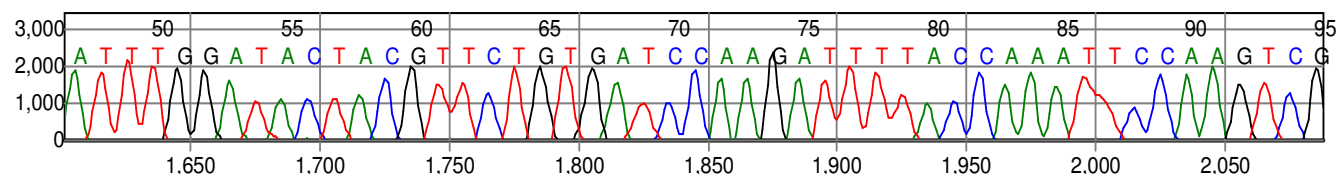
1S--> DCLRE1C_7F_SOAP0467_C03.ab1



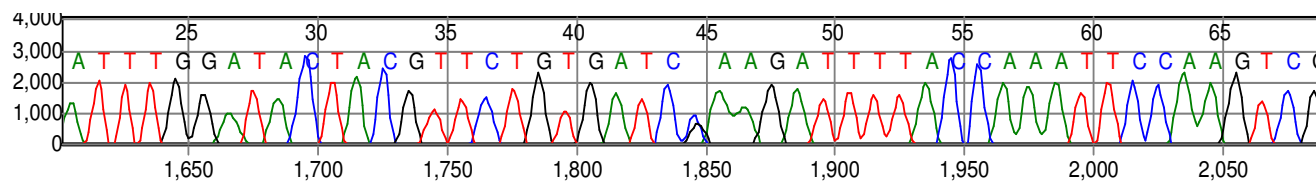
1S<-- DCLRE1C_7R_SOAP0467_C04.ab1



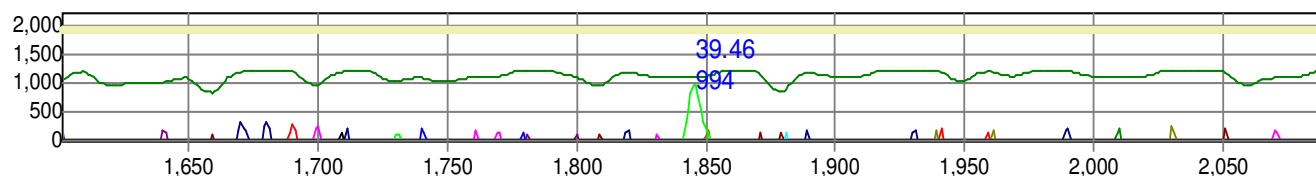
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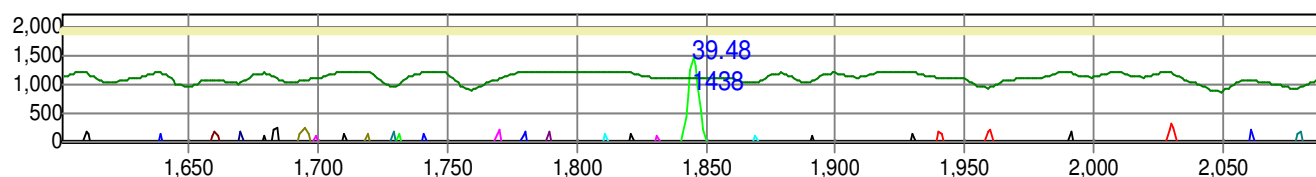
1S--> DCLRE1C_7F_SONP0093_B03.ab1-->



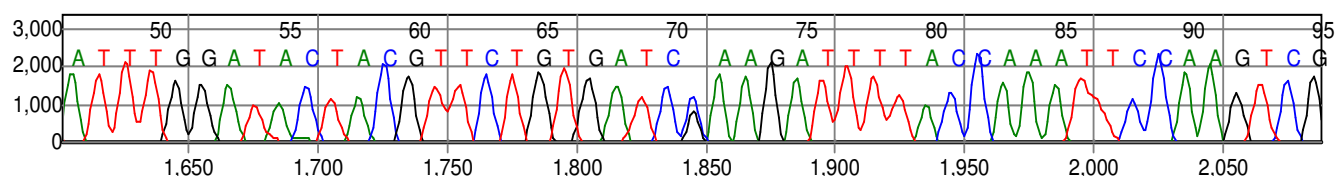
1S--> DCLRE1C_7F_SONP0093_B03.ab1 Mutations: 228C>CG\$39.5



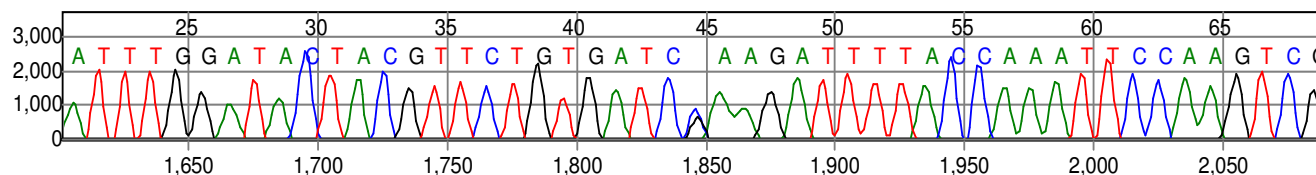
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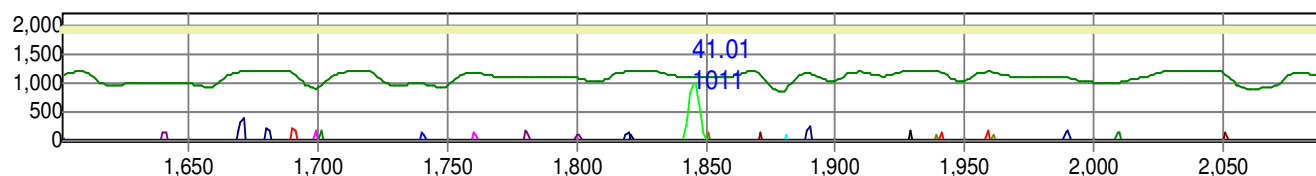
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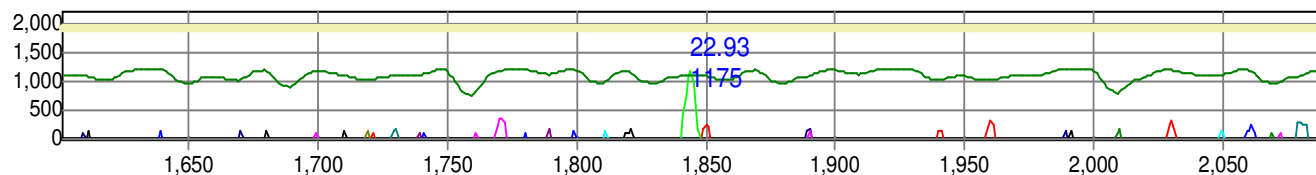
1S--> DCLRE1C_7F_SOPR0381_G03.ab1-->



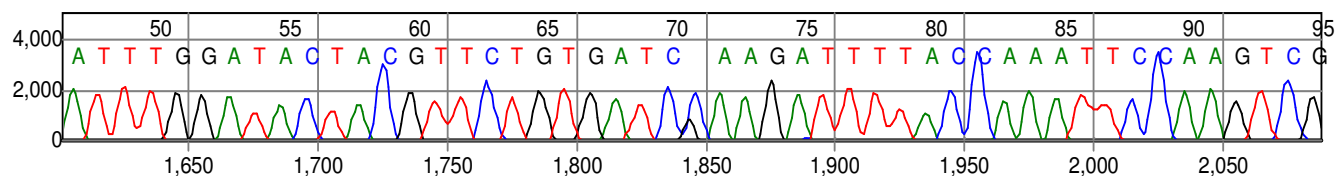
1S--> DCLRE1C_7F_SOPR0381_G03.ab1 Mutations: 228C>CG\$41.0



1S<-- DCLRE1C_7R_SOPR0381_G04.ab1 Mutations: 228C>CG\$22.9



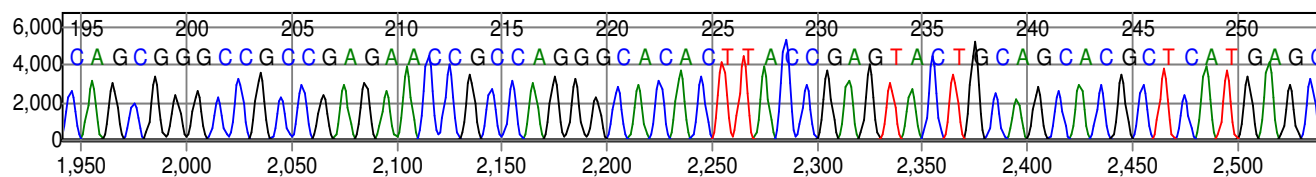
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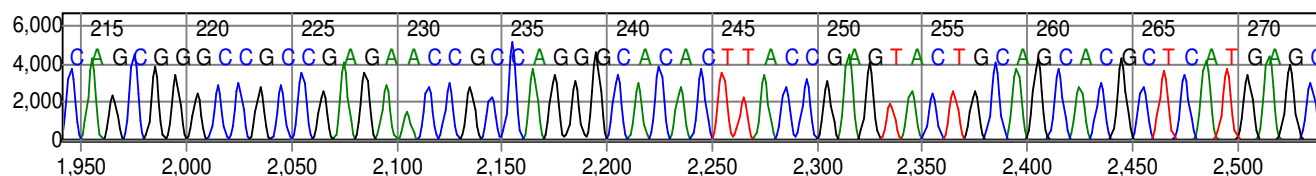
Mutation Surveyor V4.0.9

1

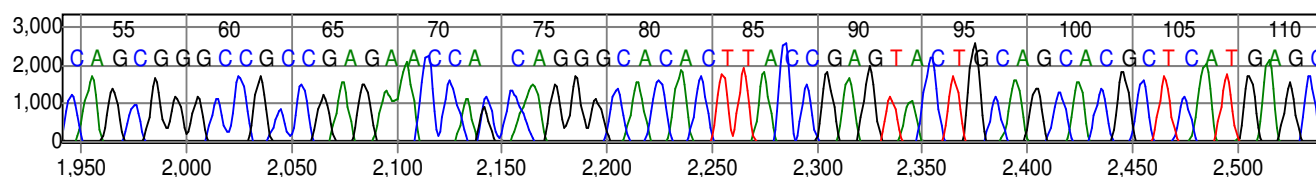
1R--> NCF1_F_Synthesis_5340.scf-->



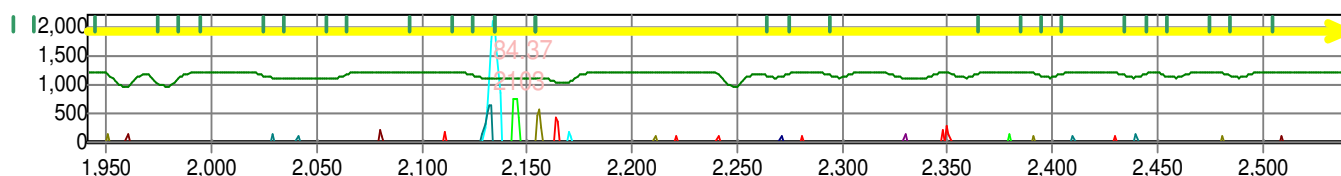
1R<-- NCF1_R_Synthesis_5322.scf<--



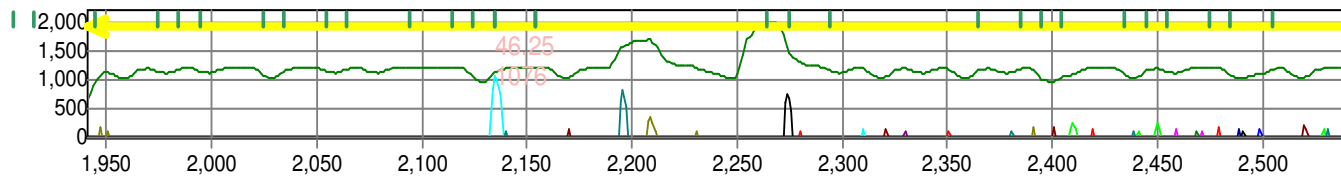
1S--> NCF1_4F_AP0043_F03.ab1-->



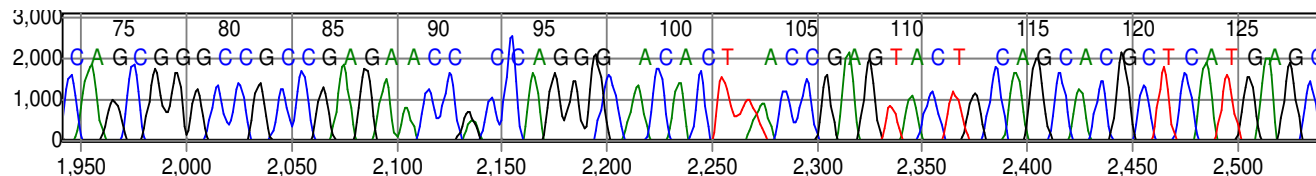
1S--> NCF1_4F_AP0043_F03.ab1 Mutations: 5335G>A\$84.4



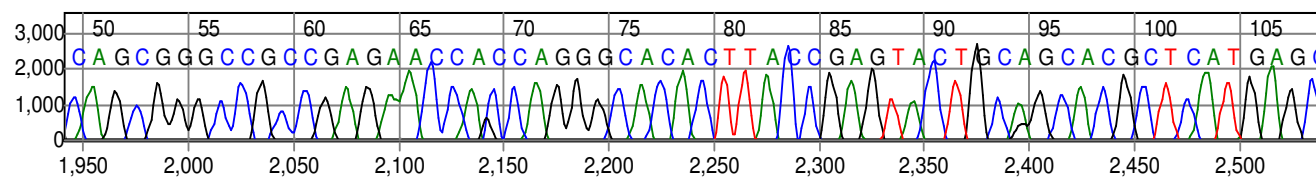
1S<-- NCF1_4R_AP0043_F04.ab1 Mutations: 5335G>GA\$46.2



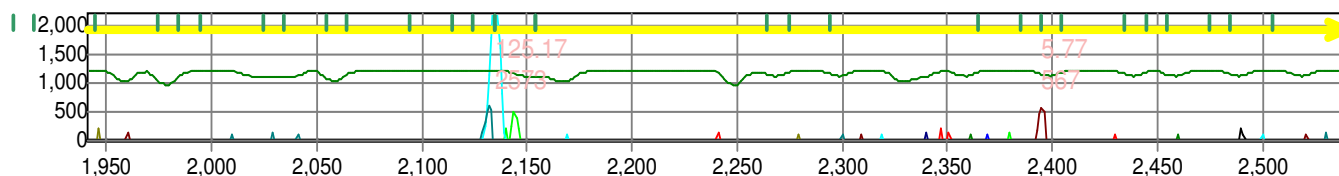
1S<-- NCF1_4R_AP0043_F04.ab1<--



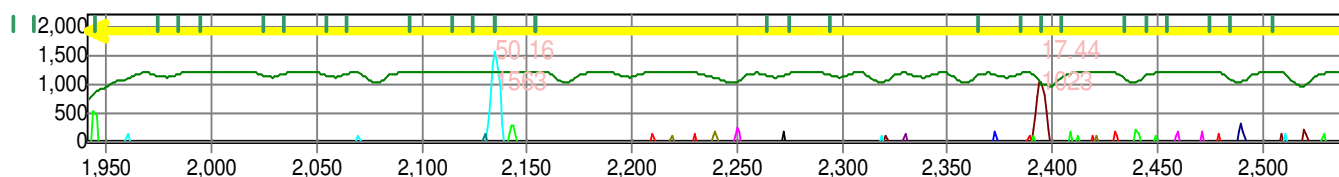
1S--> NCF1_4F_AP0044_G03.ab1-->



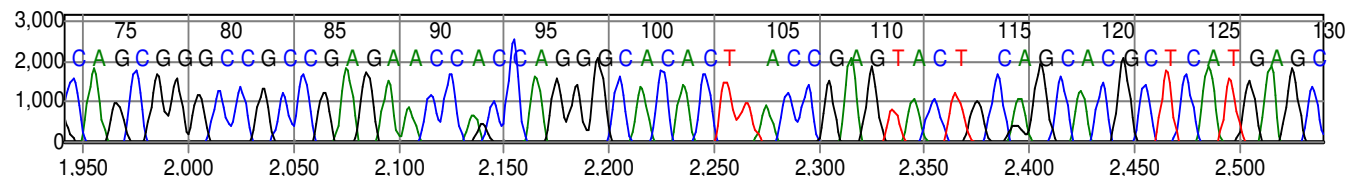
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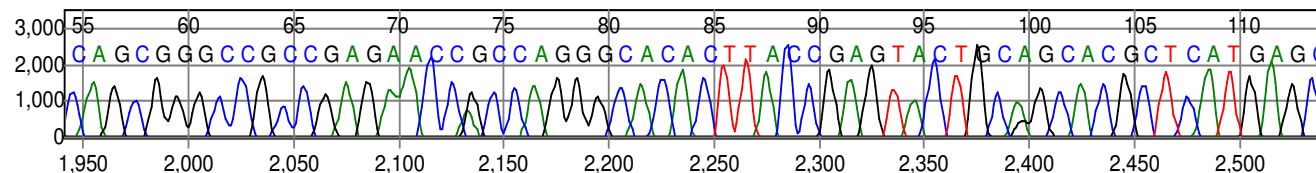
1S<-- NCF1_4R_AP0044_G04.ab1 Mutations: 5335G>GA\$50.2 5361A>AG\$17.4



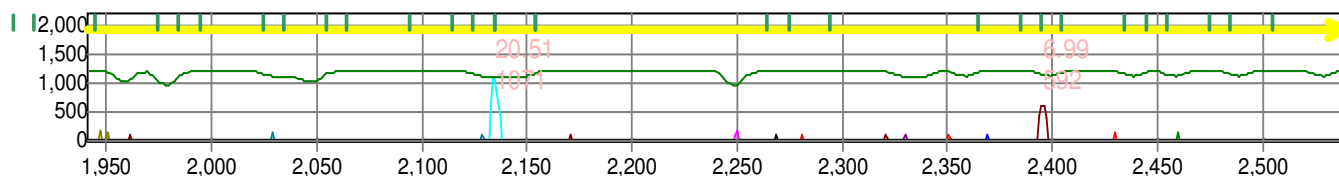
1S<-- NCF1_4R_AP0044_G04.ab1<--



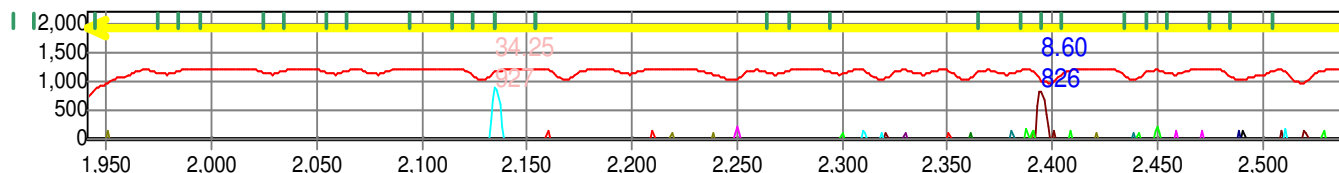
1S--> NCF1_4F_AP0229_G01.ab1-->



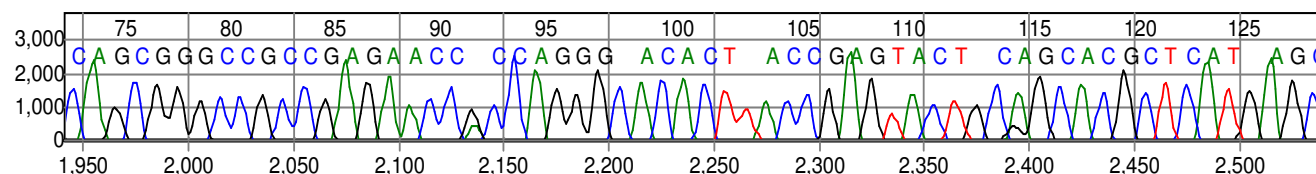
1S--> NCF1_4F_AP0229_G01.ab1 Mutations: 5335G>GA\$20.5 5361A>AG\$7.0



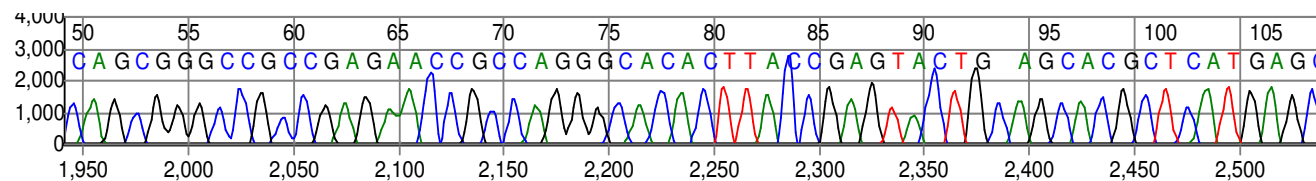
1S<-- NCF1_4R_AP0229_G02.ab1 Mutations: 5335G>GA\$34.2 5361A>AG\$8.6



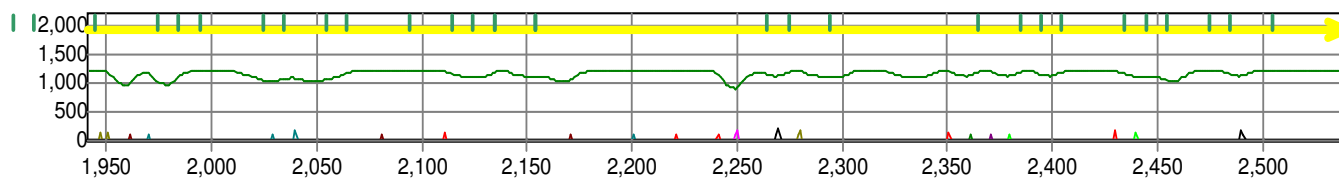
1S<-- NCF1_4R_AP0229_G02.ab1<--



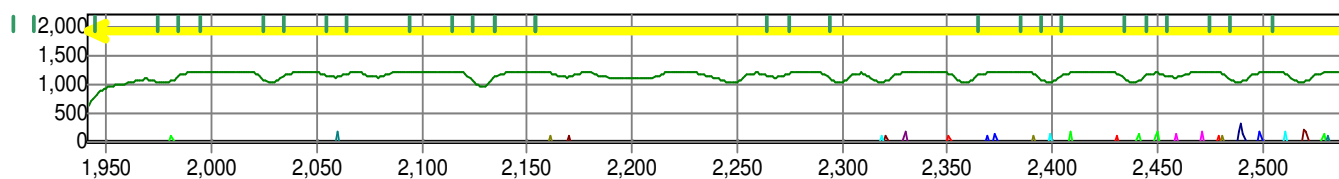
1S--> NCF1_4F_AP0245_H01.ab1-->



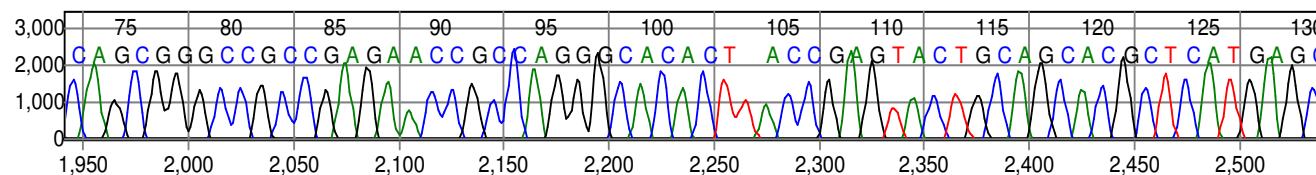
1S--> NCF1_4F_AP0245_H01.ab1



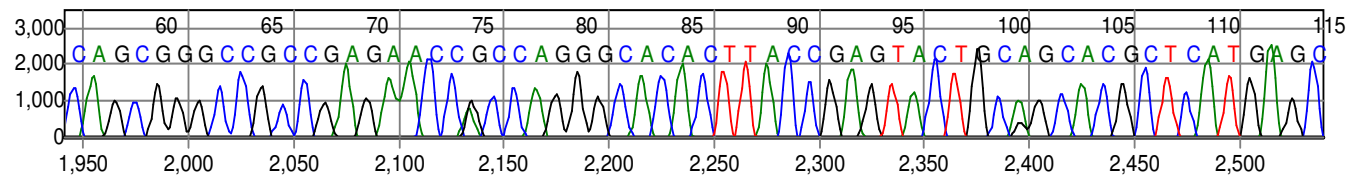
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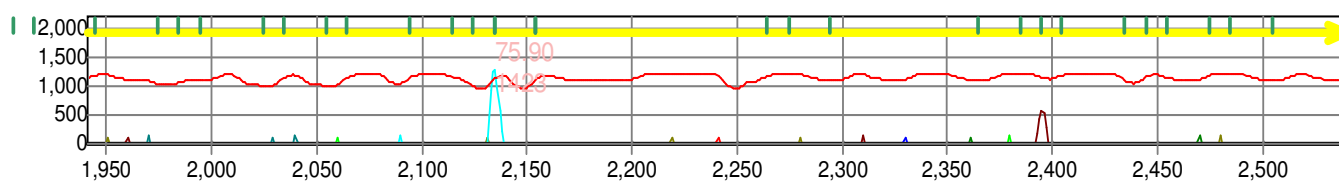
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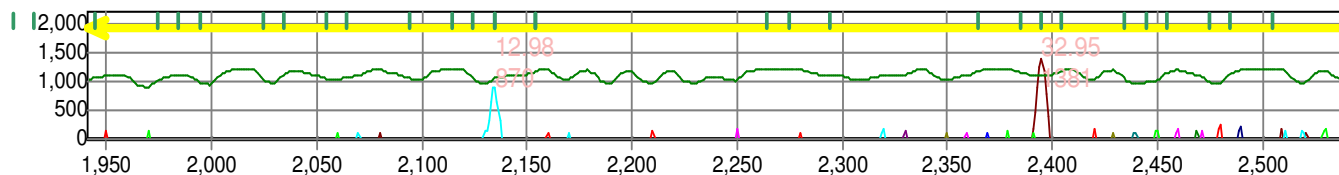
1S--> NCF1_4F_PR0034_C09.ab1-->



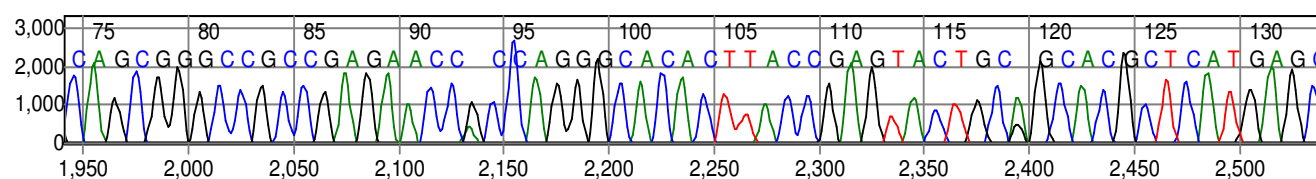
1S--> NCF1_4F_PR0034_C09.ab1 Mutations: 5335G>GA\$75.9



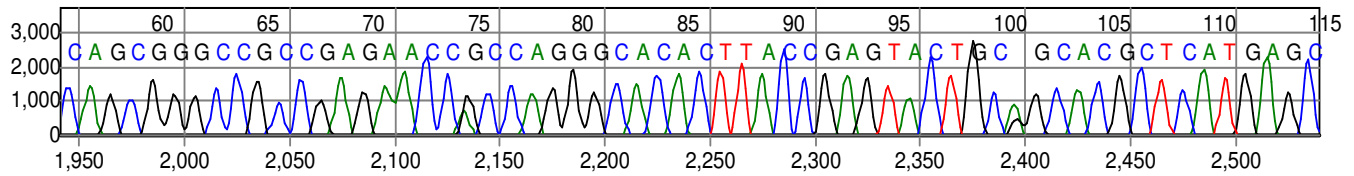
1S<-- NCF1_4R_PR0034_C10.ab1 Mutations: 5335G>GA\$13.0 5361A>AG\$32.9



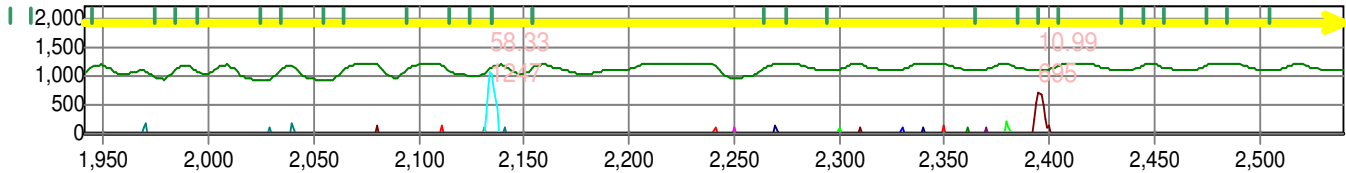
1S<-- NCF1_4R_PR0034_C10.ab1<--



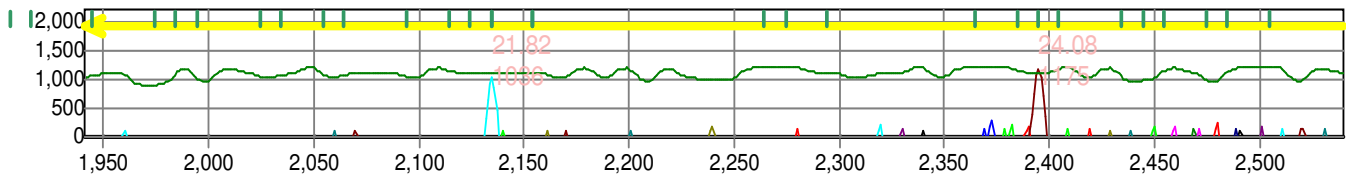
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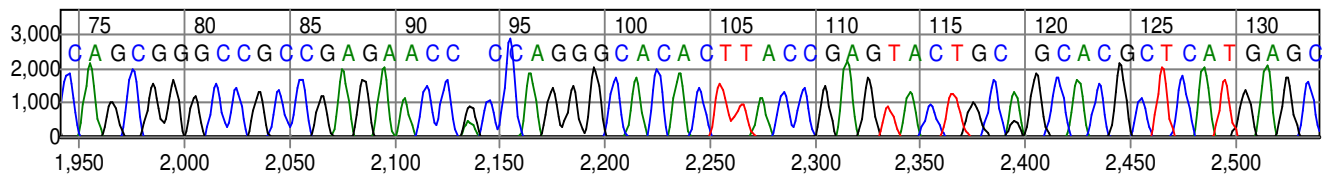
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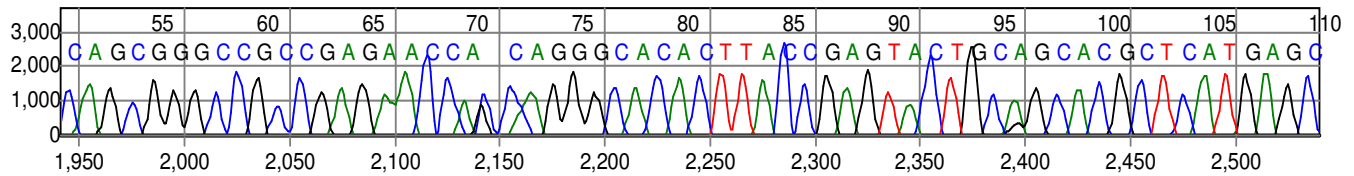
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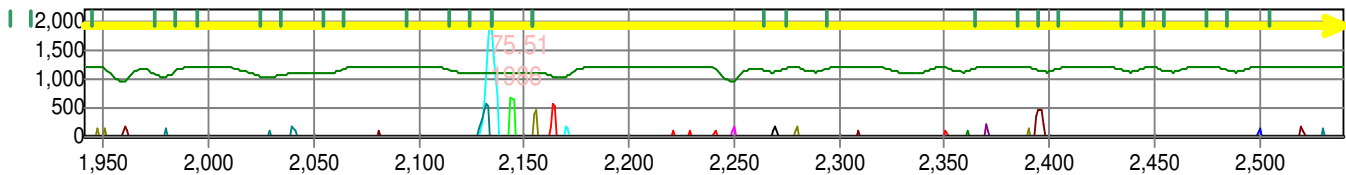
1S<-- NCF1_4R_PR0182_D10.ab1<--



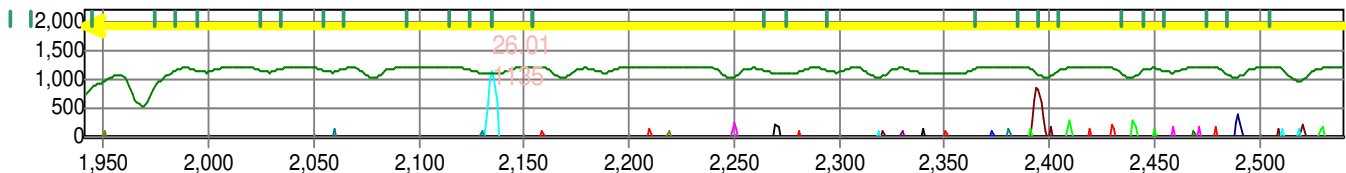
1S--> NCF1_4F_SOAP0357_H05.ab1-->



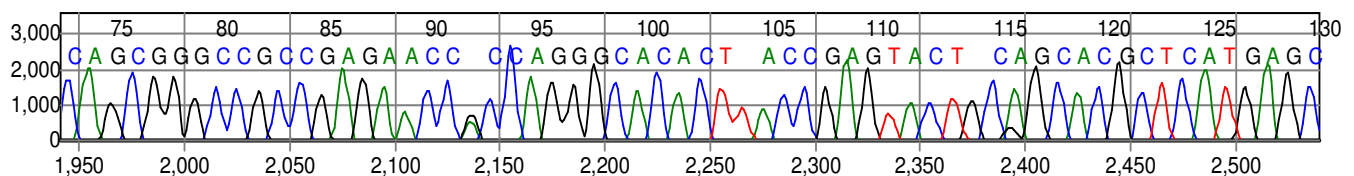
1S--> NCF1_4F_SOAP0357_H05.ab1 Mutations: 5335G>A\$75.5



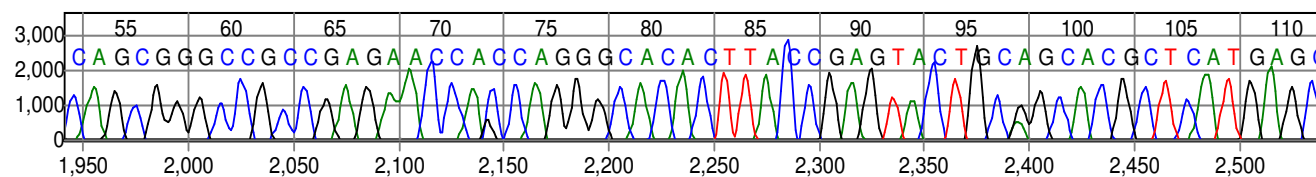
1S<-- NCF1_4R_SOAP0357_H06.ab1 Mutations: 5335G>GA\$26.0



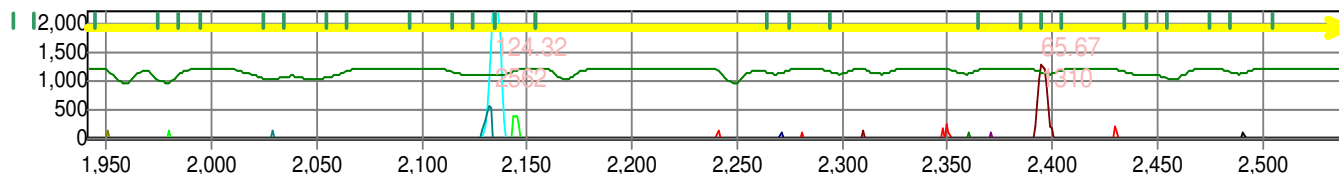
1S<-- NCF1_4R_SOAP0357_H06.ab1<--



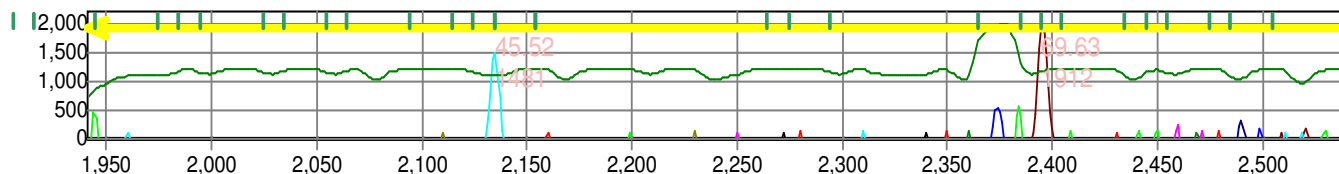
1S--> NCF1_4F_SOAP0358_H07.ab1-->



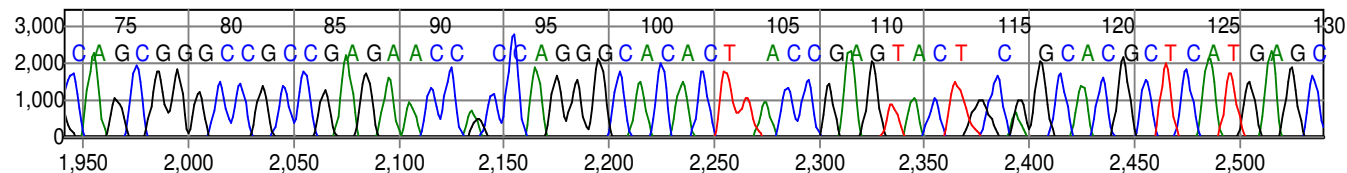
1S--> NCF1_4F_SOAP0358_H07.ab1 Mutations: 5335G>A\$124.3 5361A>AG\$65.7



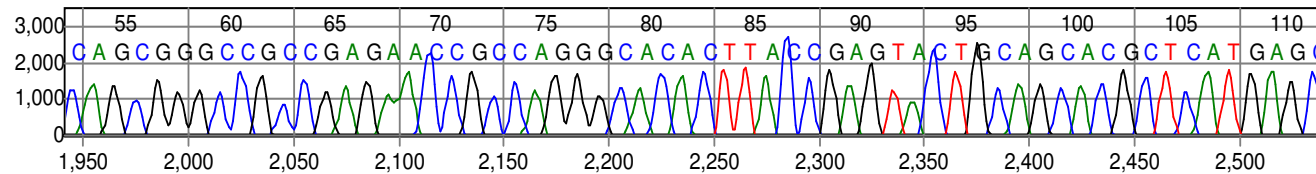
1S<-- NCF1_4R_SOAP0358_H08.ab1 Mutations: 5335G>GA\$45.5 5361A>AG\$69.6



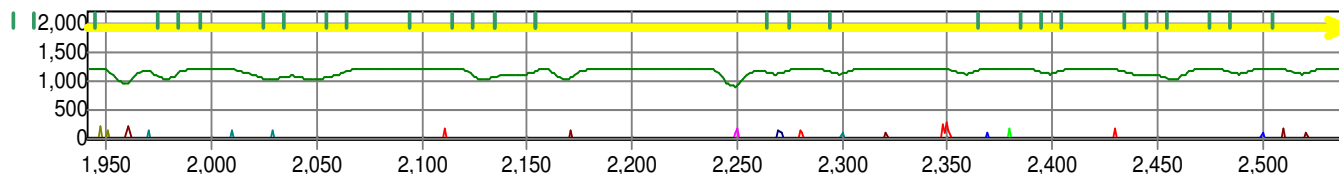
1S<-- NCF1_4R_SOAP0358_H08.ab1<--



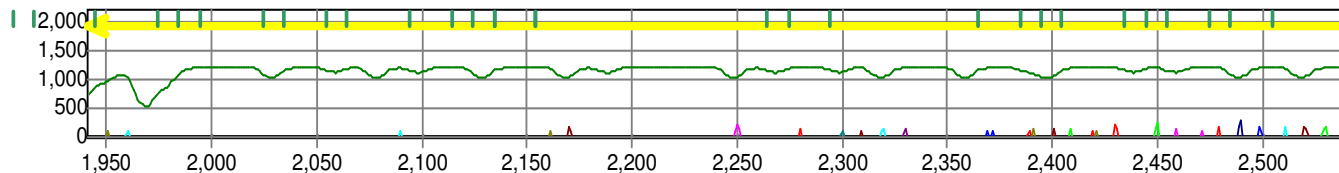
1S--> NCF1_4F_SOAP0375_H03.ab1-->



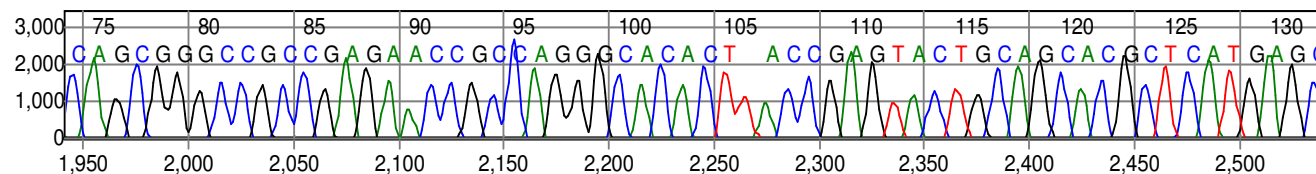
1S--> NCF1_4F_SOAP0375_H03.ab1



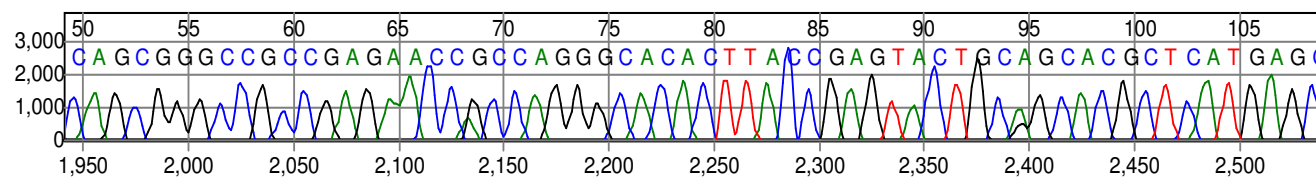
1S<-- NCF1_4R_SOAP0375_H04.ab1



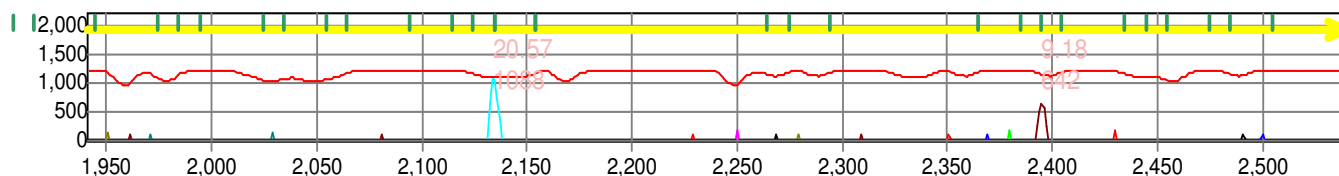
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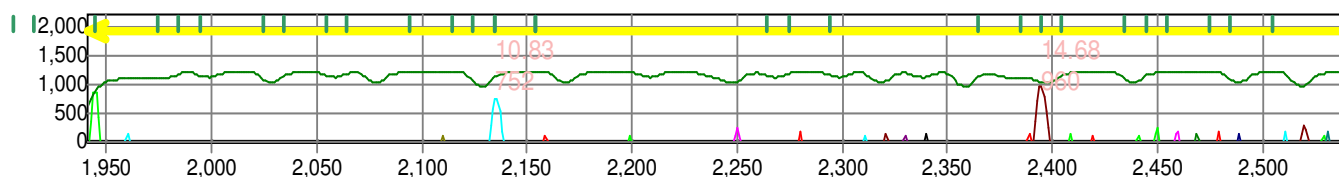
1S--> NCF1_4F_SONP0113_H09.ab1-->



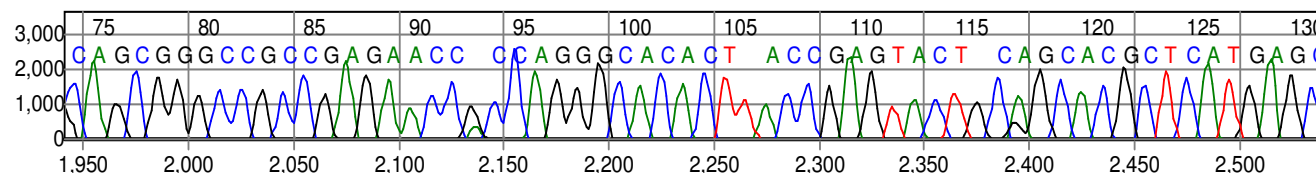
1S--> NCF1_4F_SONP0113_H09.ab1 Mutations: 5335G>GA\$20.6 5361A>AG\$9.2



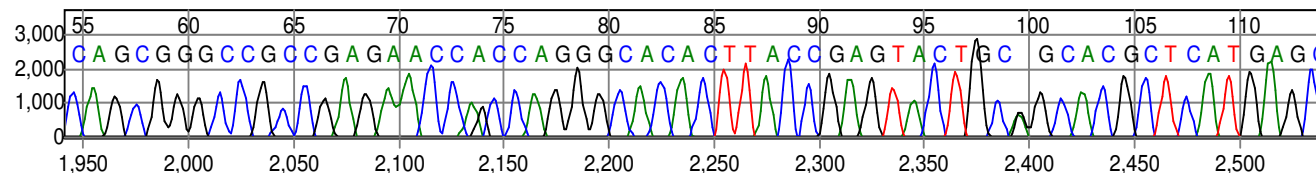
1S<-- NCF1_4R_SONP0113_H10.ab1 Mutations: 5335G>GA\$10.8 5361A>AG\$14.7



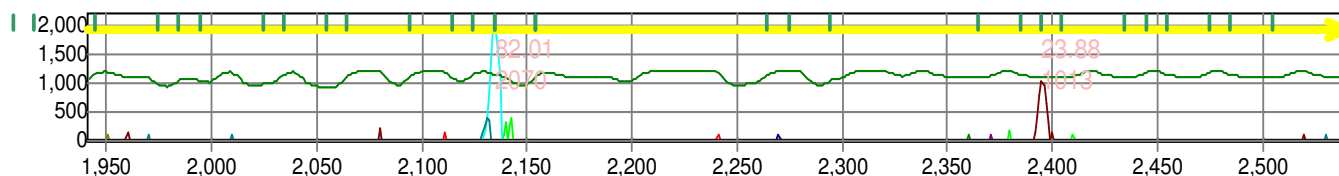
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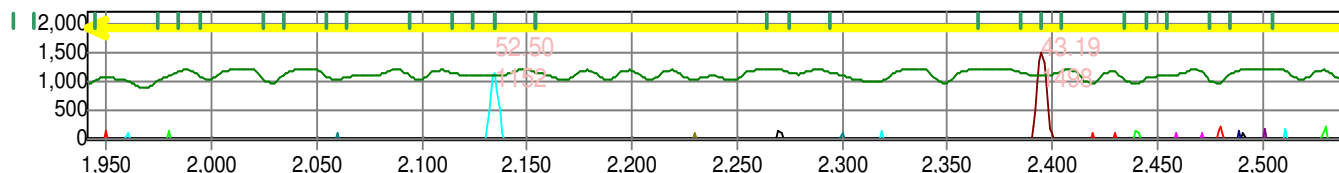
1S--> NCF1_4F_SOPR0280_E09.ab1-->



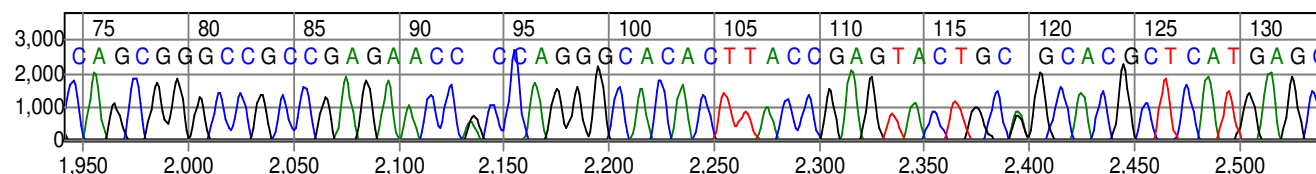
1S--> NCF1_4F_SOPR0280_E09.ab1 Mutations: 5335G>GA\$82.0 5361A>AG\$23.9



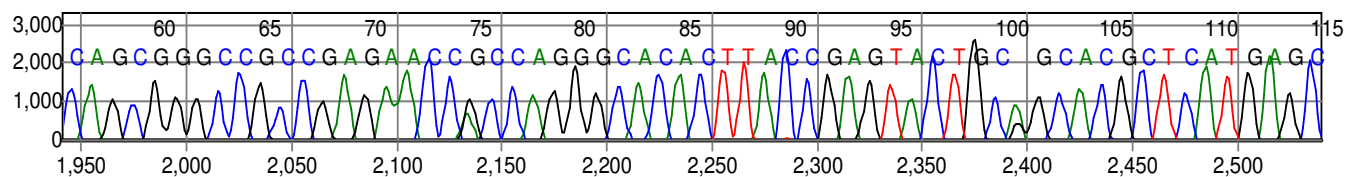
1S<-- NCF1_4R_SOPR0280_E10.ab1 Mutations: 5335G>GA\$52.5 5361A>AG\$43.2



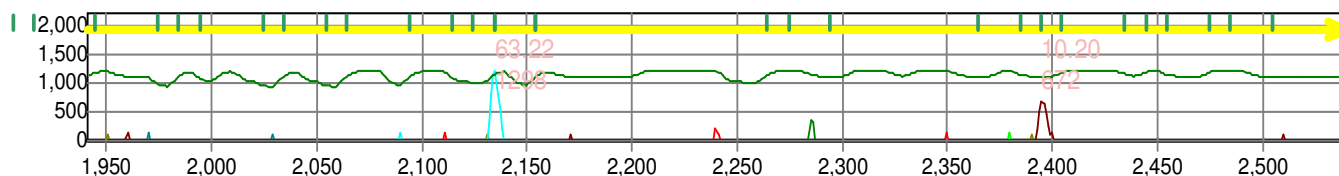
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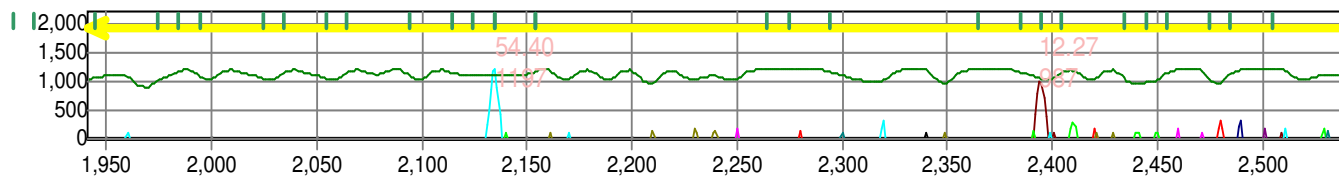
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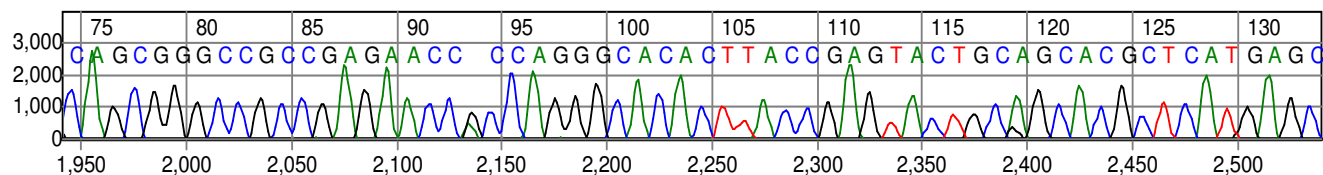
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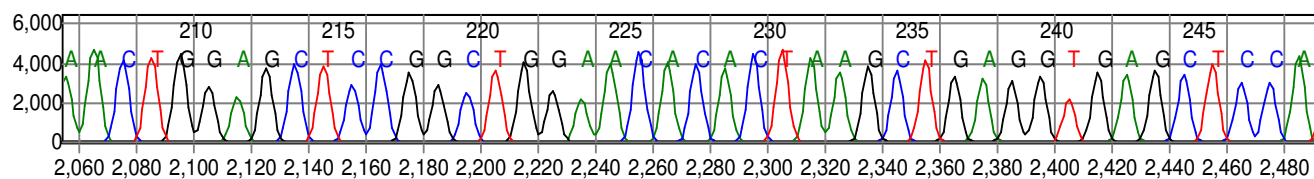
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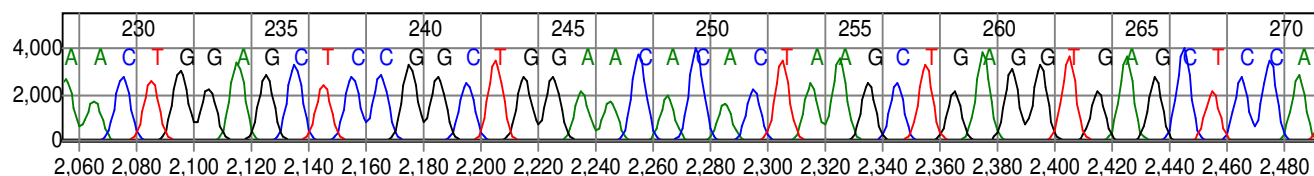
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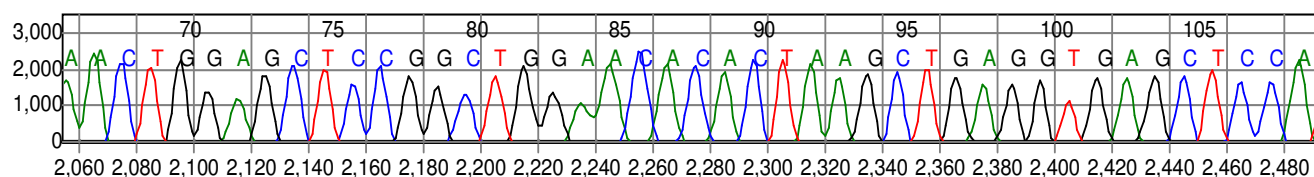
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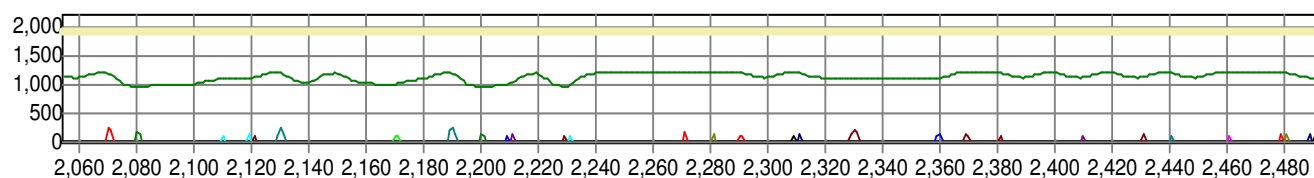
1R<-- NCF2_e12_13_R_Synthesis_424.scf<--



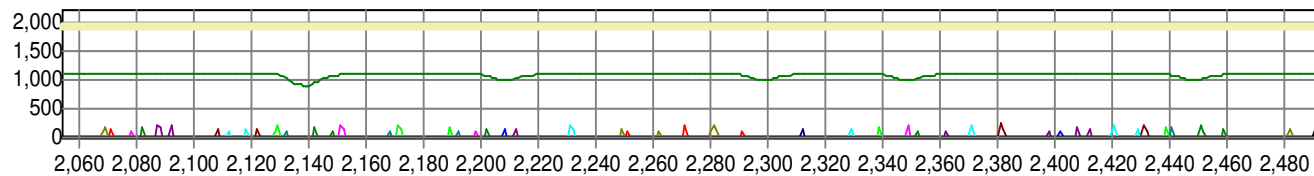
1S--> NCF2_12_13F_AP0022_A09.ab1-->



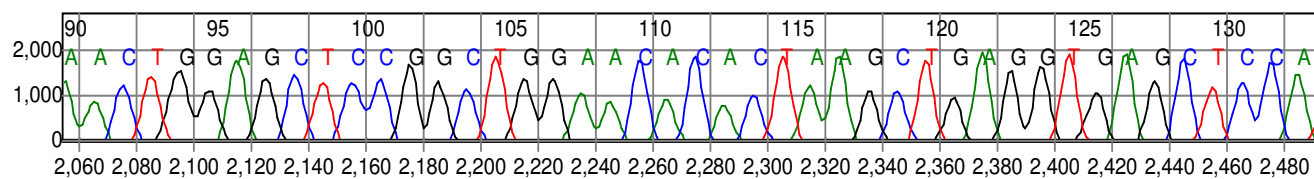
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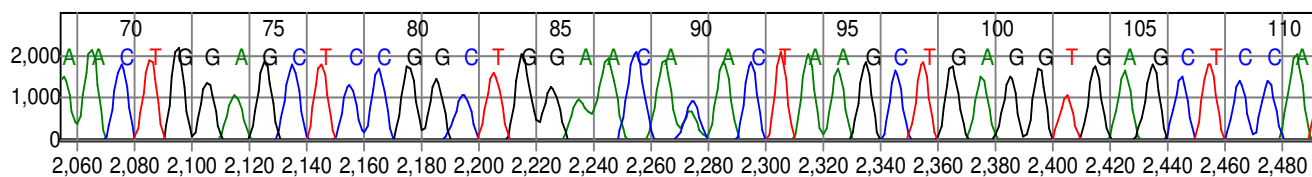
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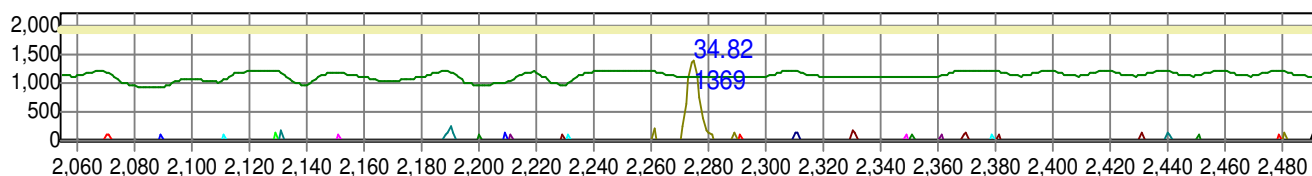
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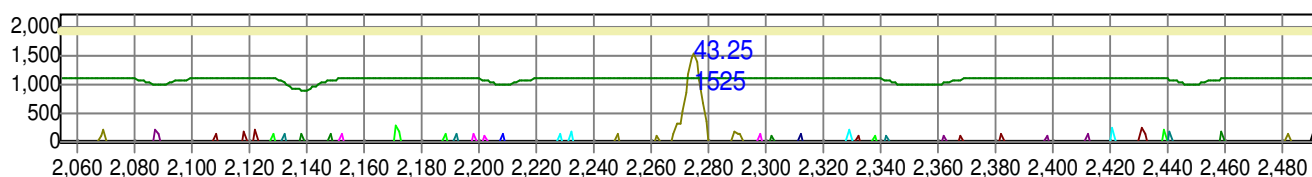
1S--> NCF2_12_13F_AP0055_C09.ab1-->



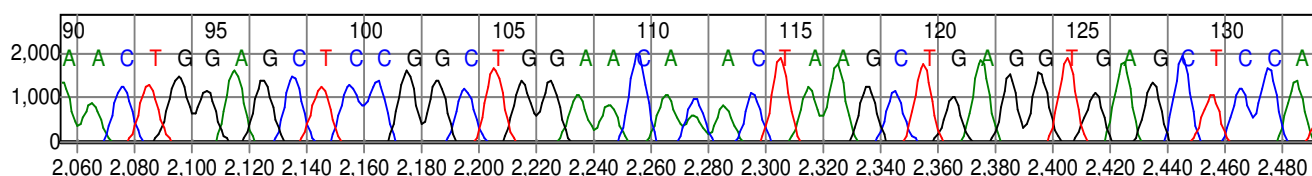
1S--> NCF2_12_13F_AP0055_C09.ab1 Mutations: 320C>CA\$34.8



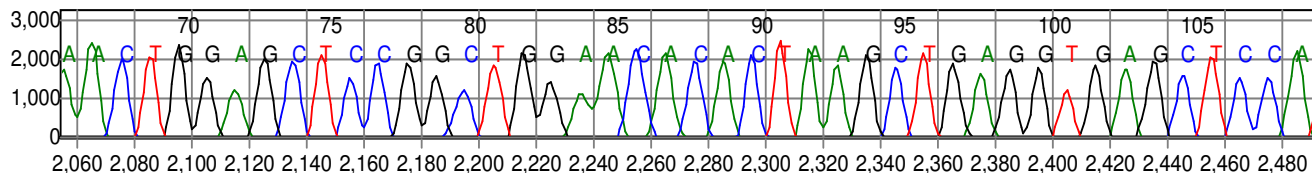
1S<-- NCF2_12_13R_AP0055_C10.ab1 Mutations: 320C>CA\$43.2



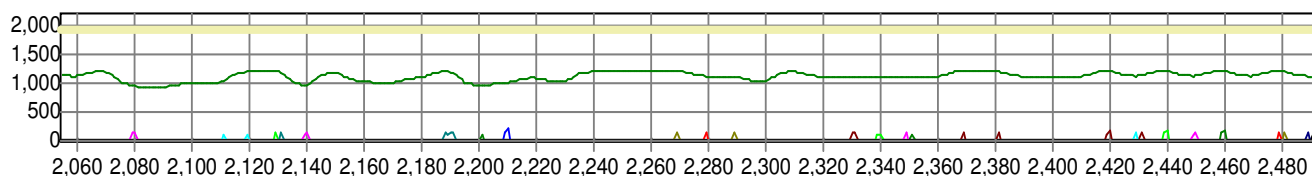
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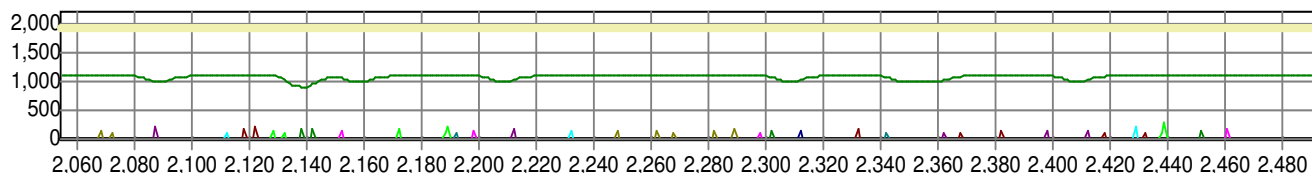
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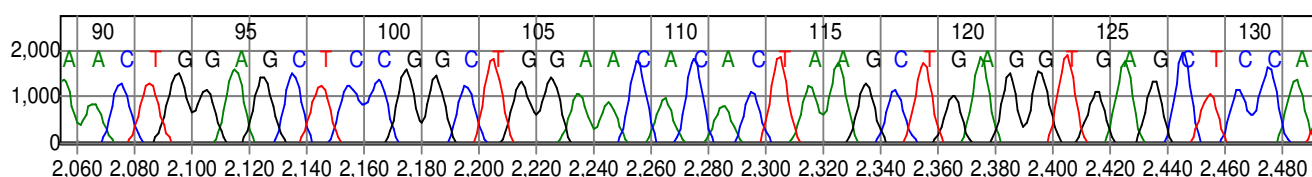
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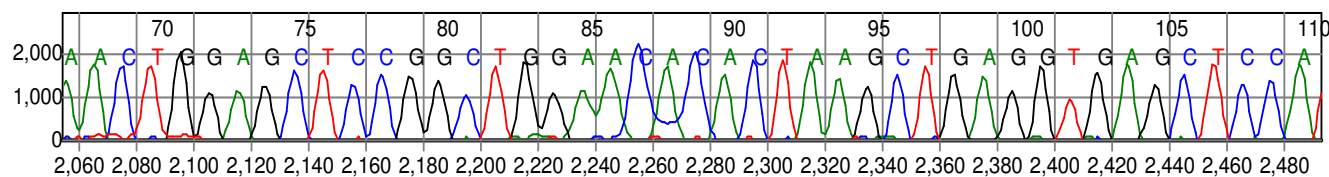
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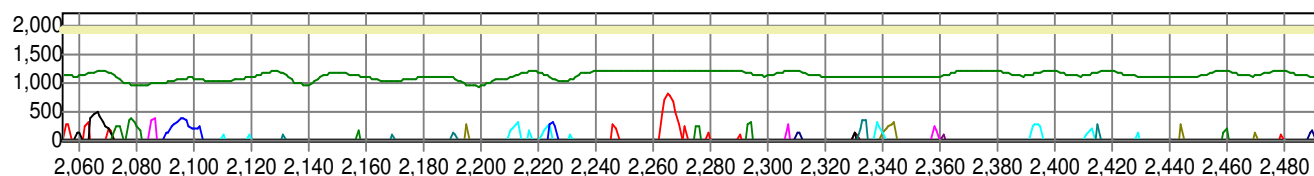
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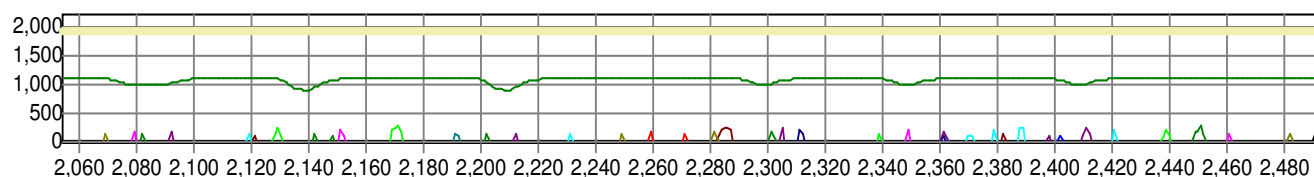
1S--> NCF2_12_13F_AP0058_E09.ab1-->



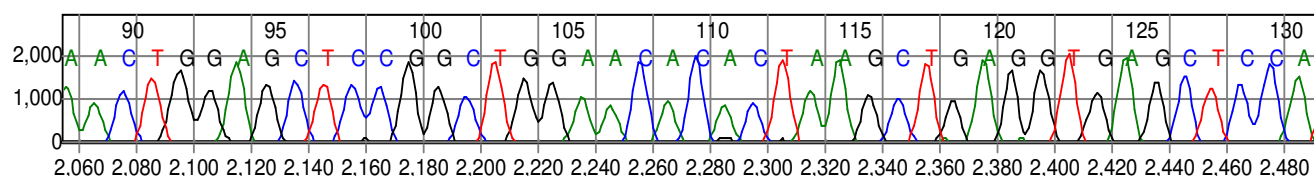
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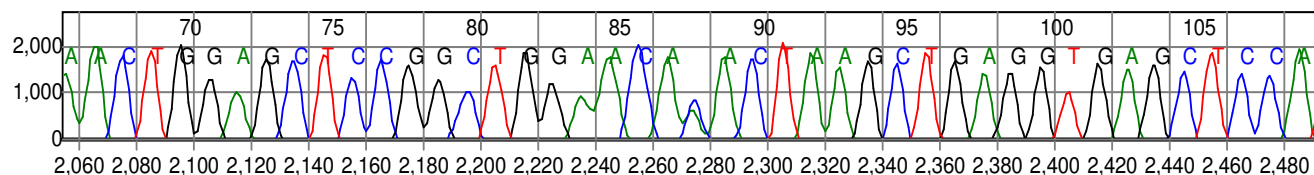
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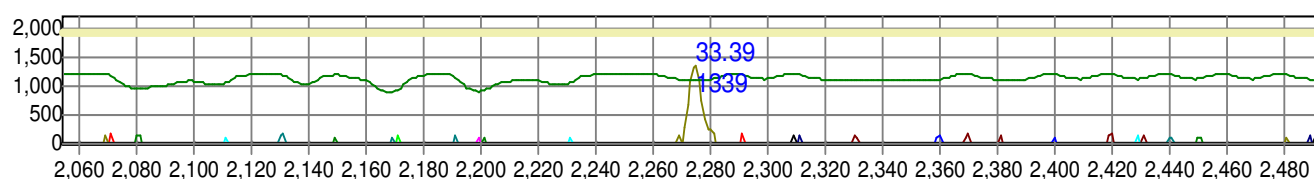
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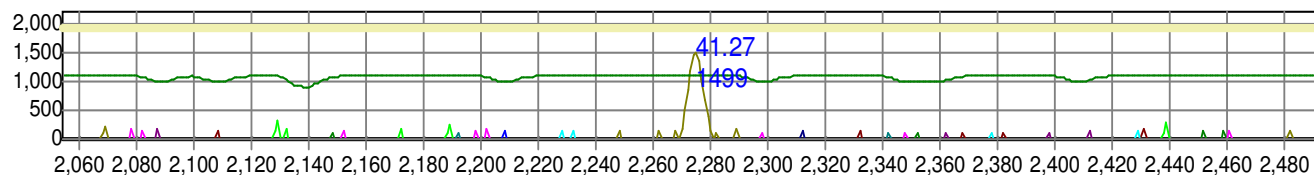
1S--> NCF2_12_13F_AP0059_F09.ab1-->



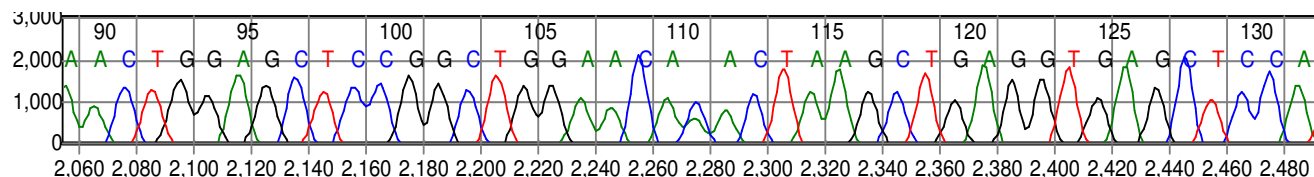
1S--> NCF2_12_13F_AP0059_F09.ab1 Mutations: 320C>CA\$33.4



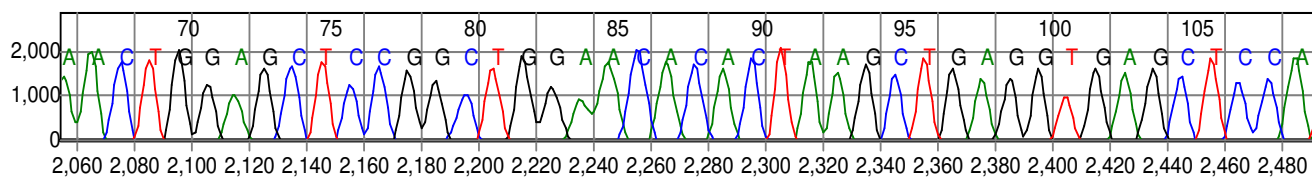
1S<-- NCF2_12_13R_AP0059_F10.ab1 Mutations: 320C>CA\$41.3



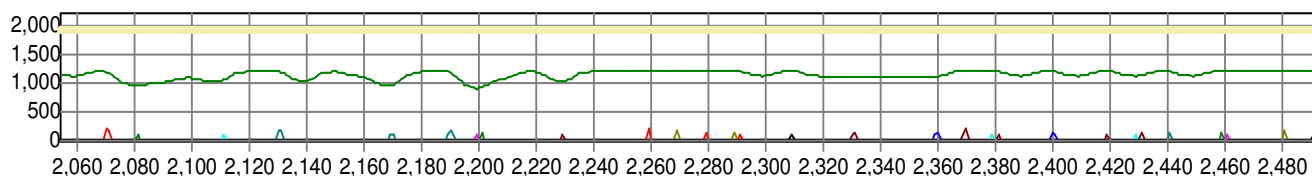
1S<-- NCF2_12_13R_AP0059_F10.ab1<--



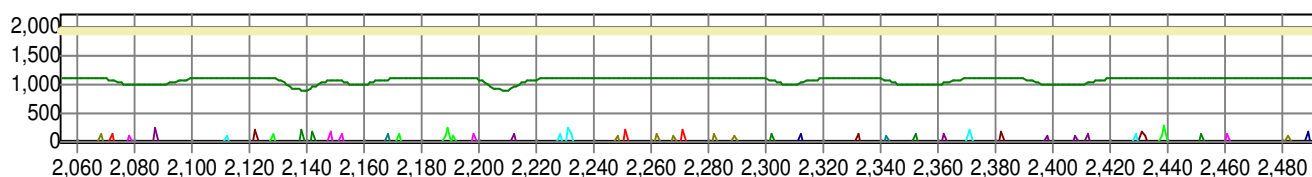
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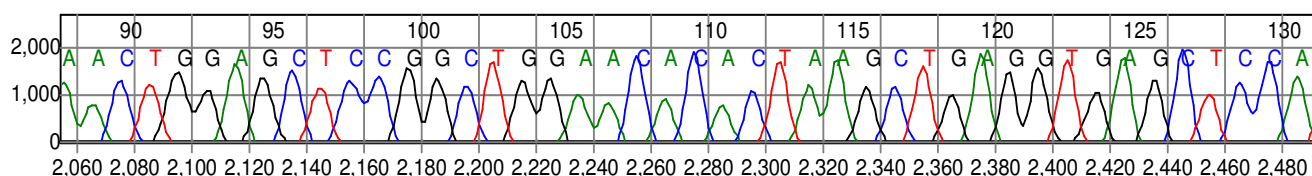
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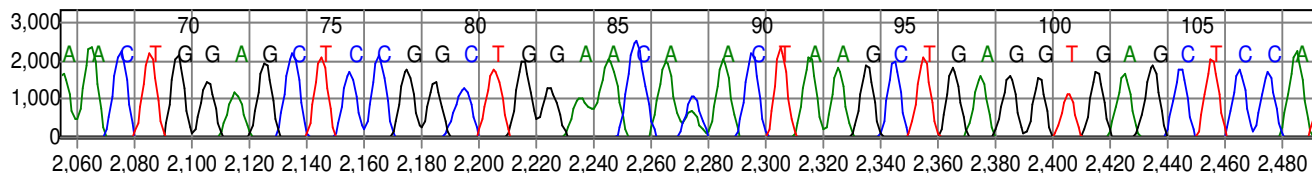
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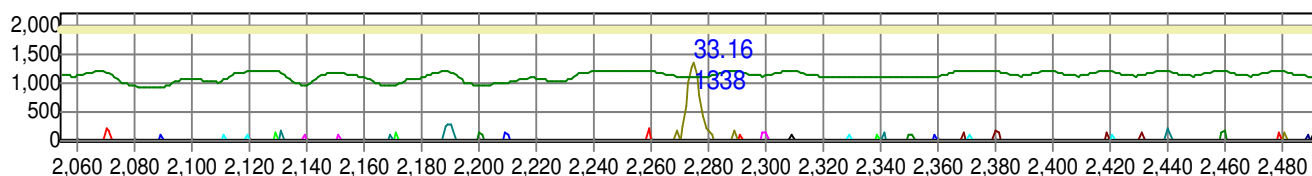
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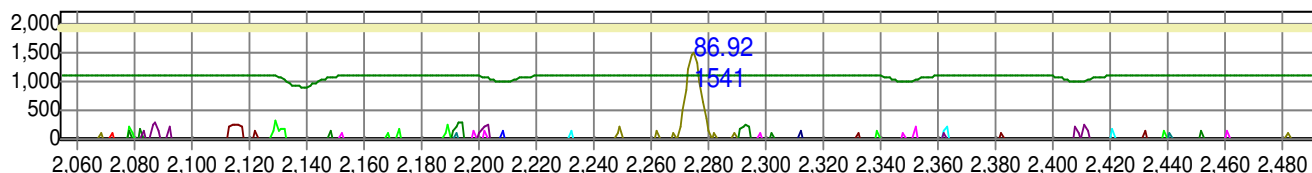
1S--> NCF2_12_13F_AP0162_A11.ab1-->



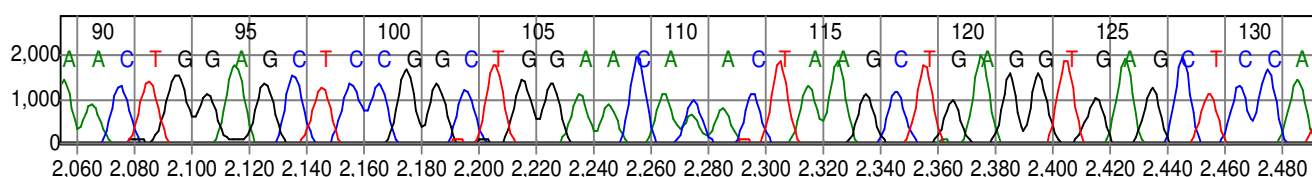
1S--> NCF2_12_13F_AP0162_A11.ab1 Mutations: 320C>CA\$33.2



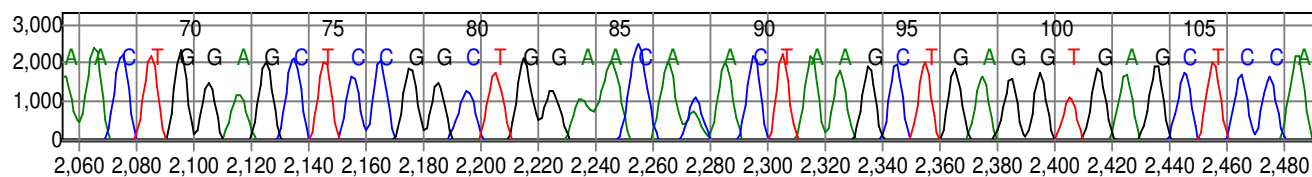
1S<-- NCF2_12_13R_AP0162_A12.ab1 Mutations: 320C>CA\$86.9



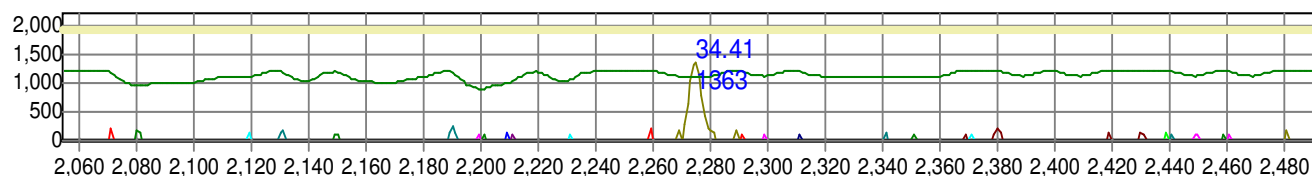
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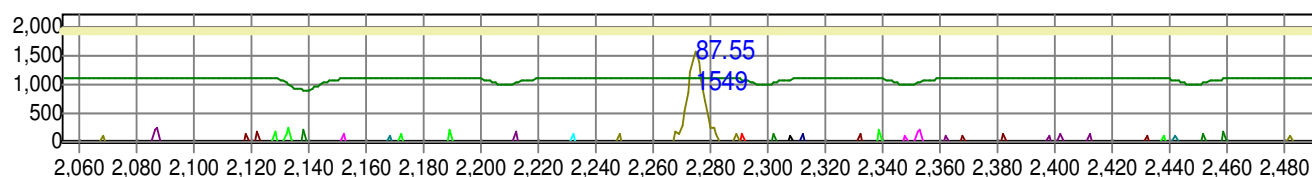
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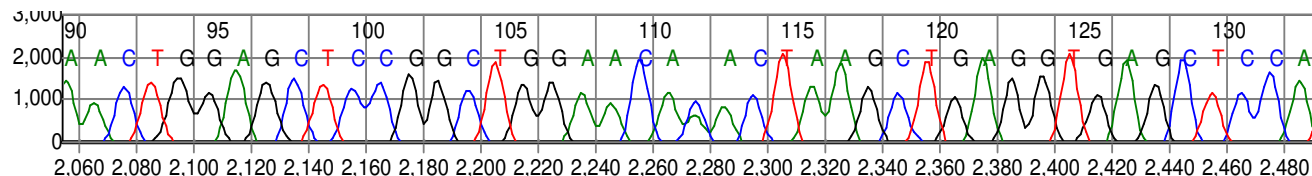
1S--> NCF2_12_13F_NP0004_B09.ab1 Mutations: 320C>CA\$34.4



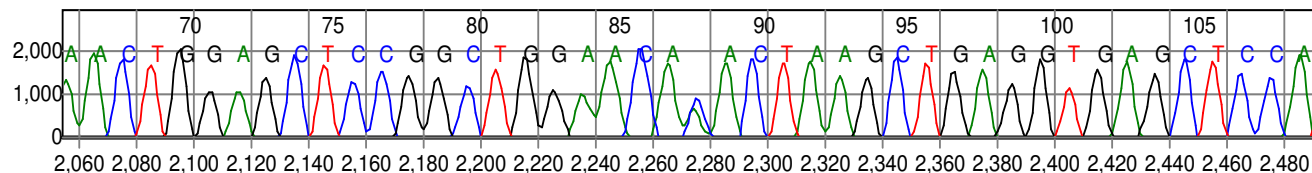
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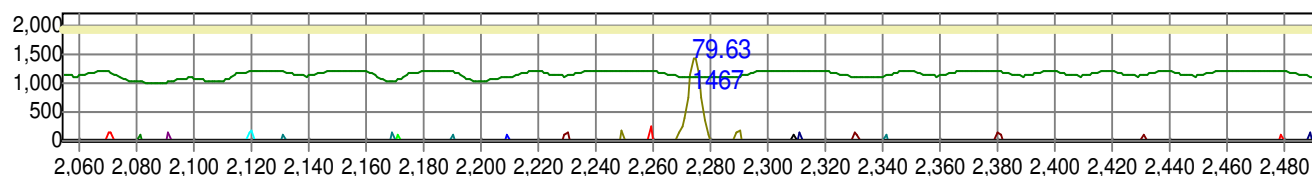
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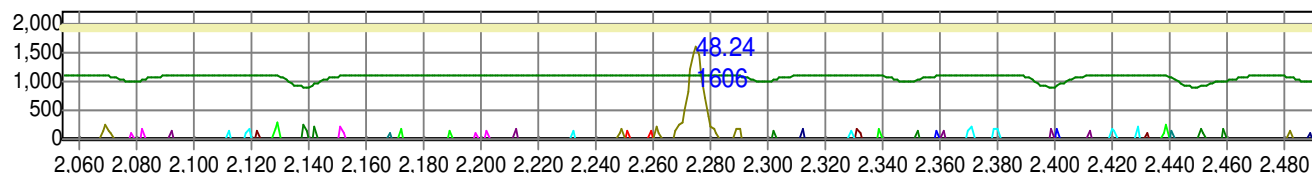
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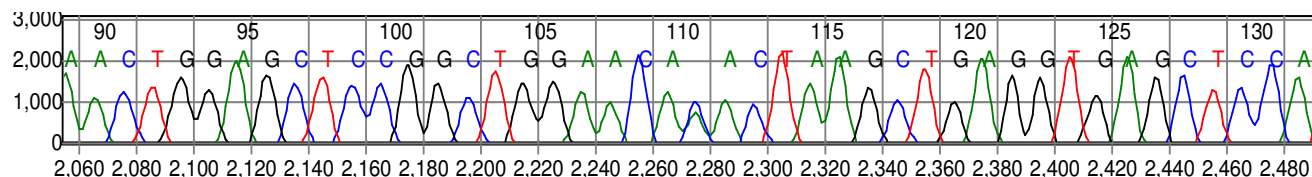
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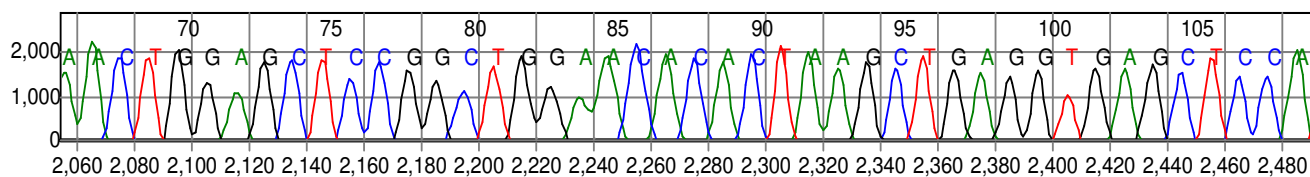
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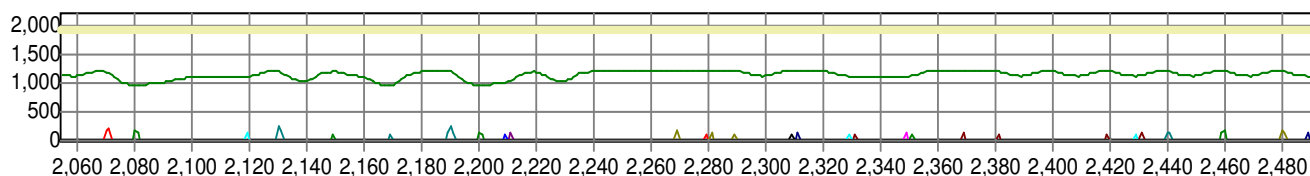
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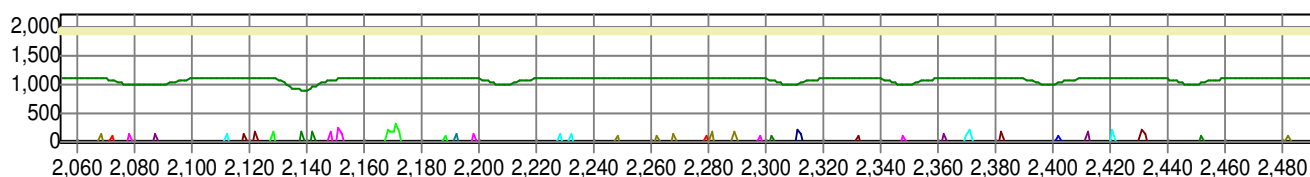
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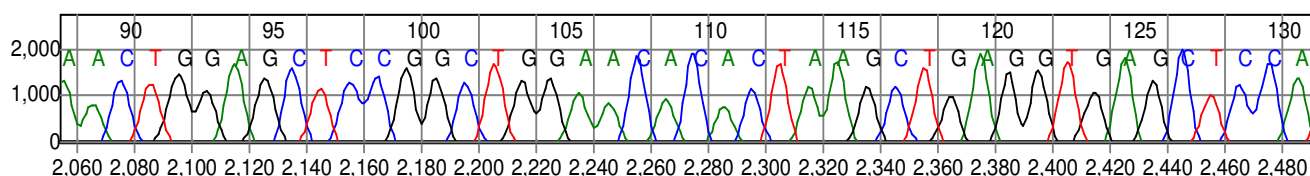
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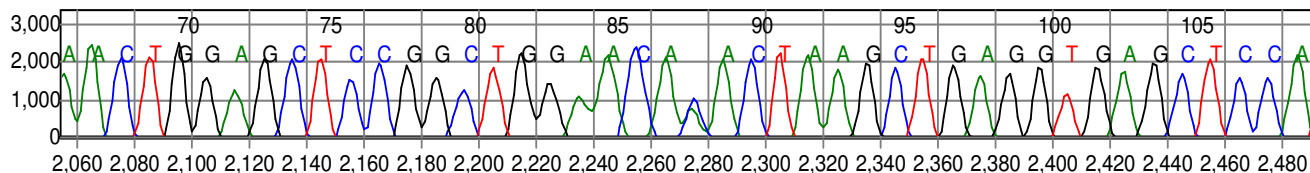
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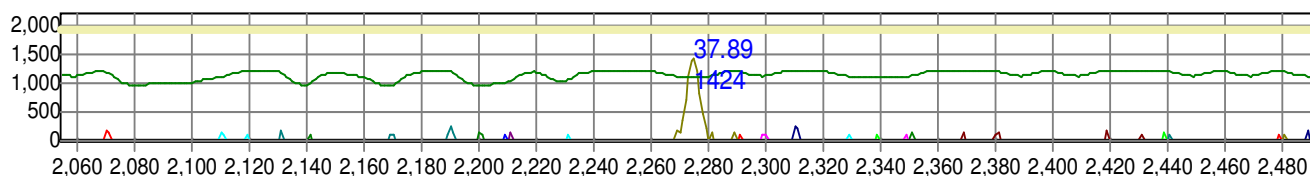
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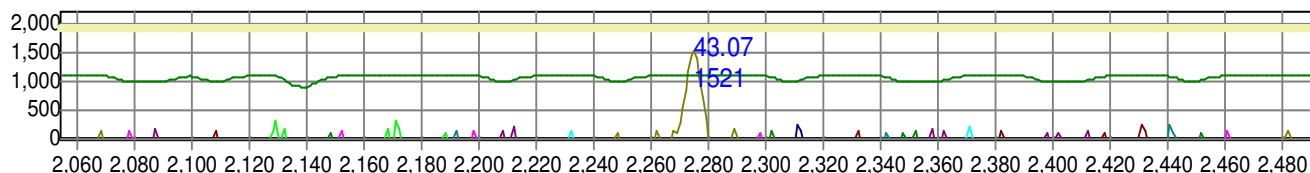
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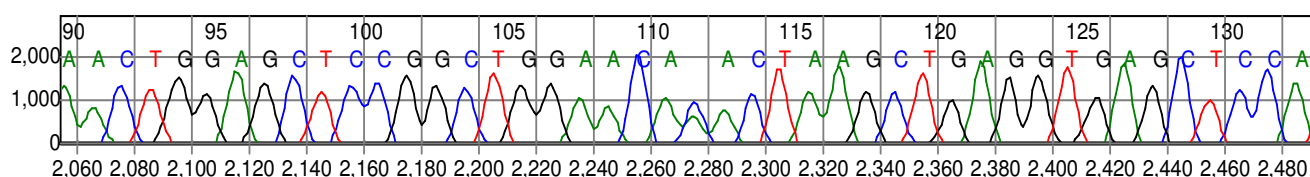
1S--> NCF2_12_13F_SOAP0440_G11.ab1 Mutations: 320C>CA\$37.9



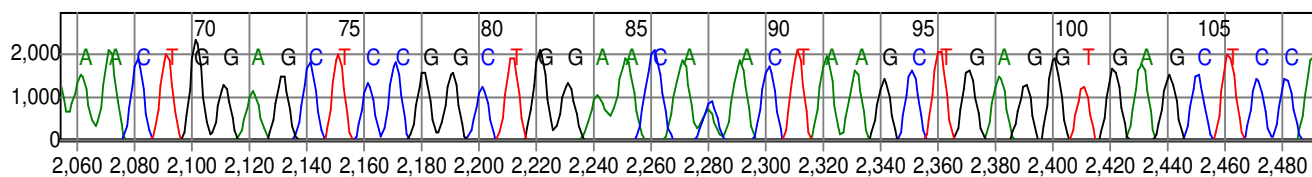
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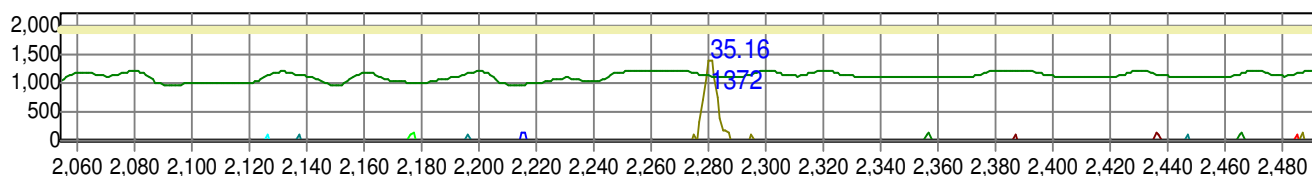
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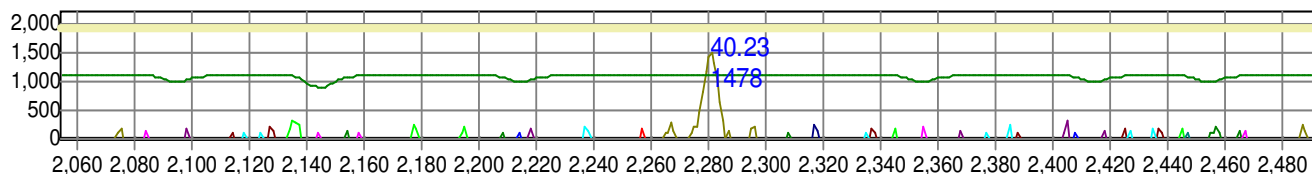
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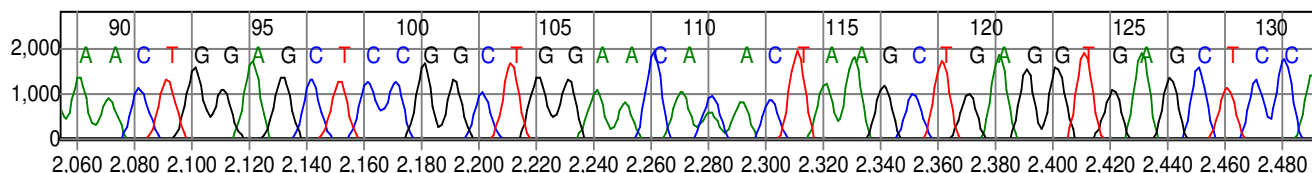
1S--> NCF2_12_13F_SOAP0441_D11.ab1 Mutations: 320C>CA\$35.2



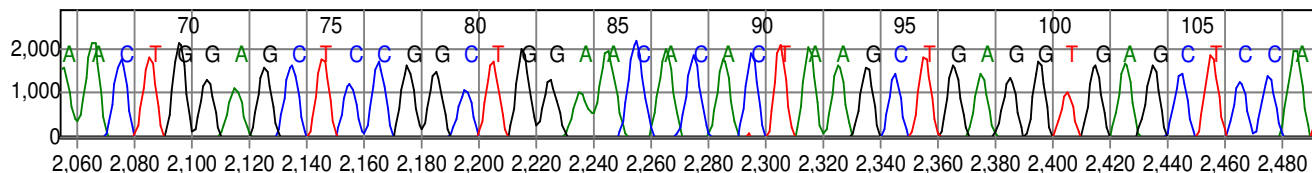
1S<-- NCF2_12_13R_SOAP0441_D12.ab1 Mutations: 320C>CA\$40.2



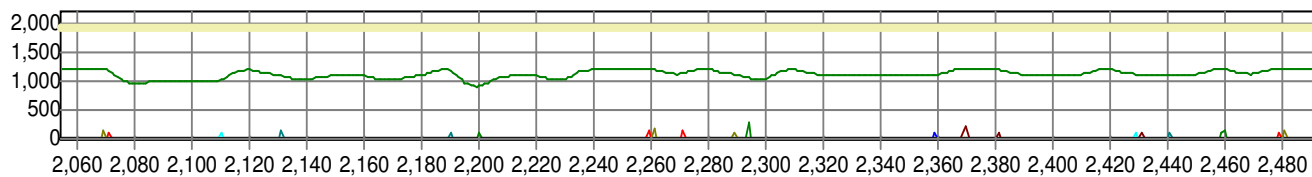
1S<-- NCF2_12_13R_SOAP0441_D12.ab1<--



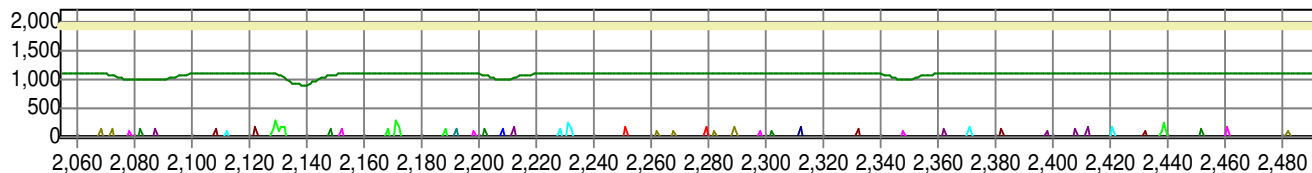
1S--> NCF2_12_13F_SOAP0442_E11.ab1-->



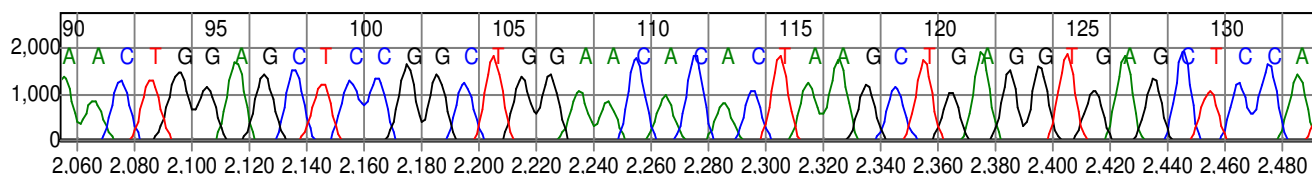
1S--> NCF2_12_13F_SOAP0442_E11.ab1



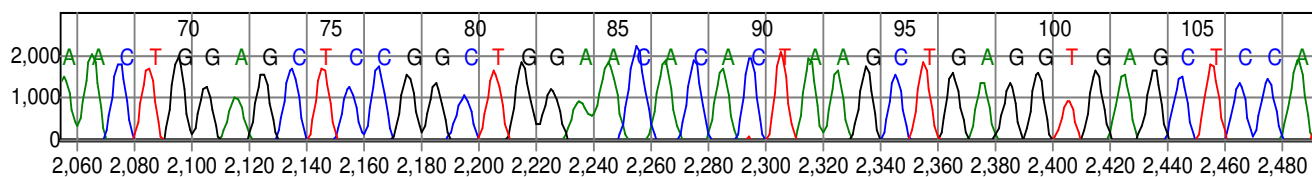
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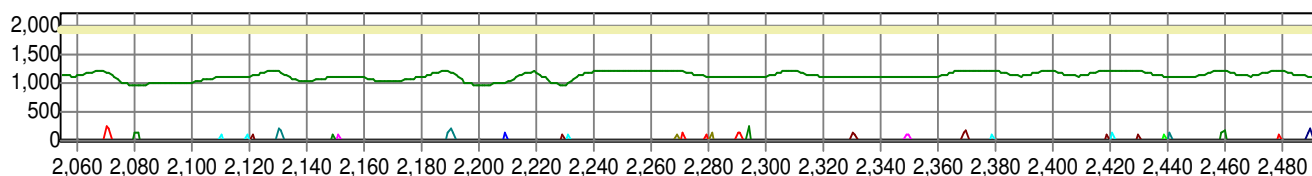
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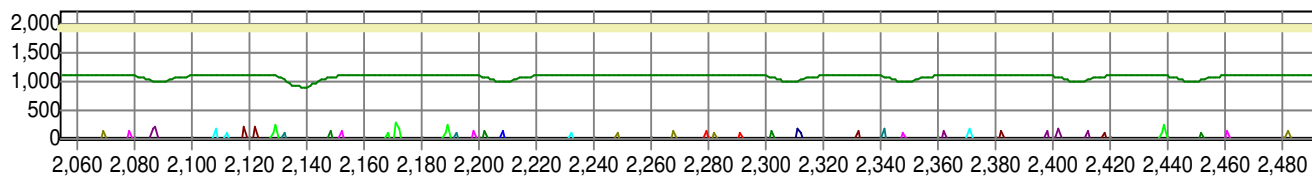
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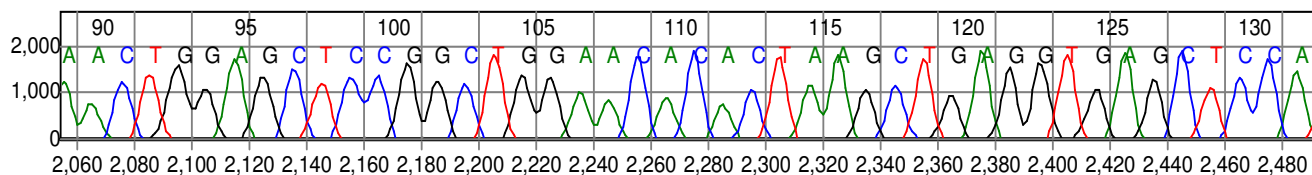
1S--> NCF2_12_13F_SOAP0471_H11.ab1



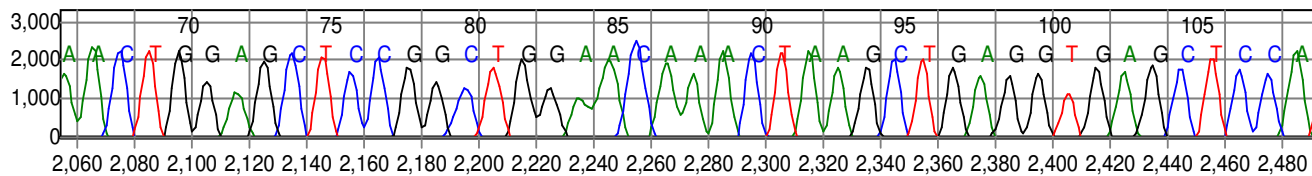
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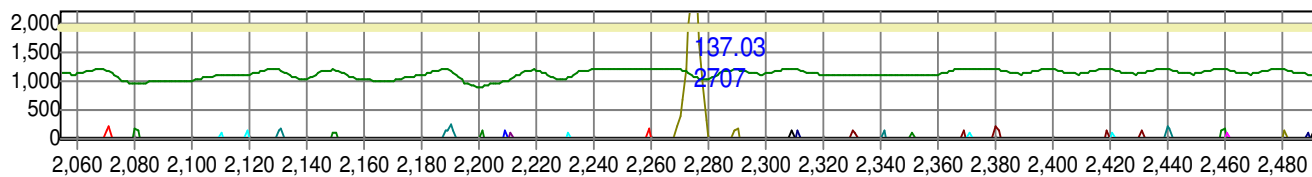
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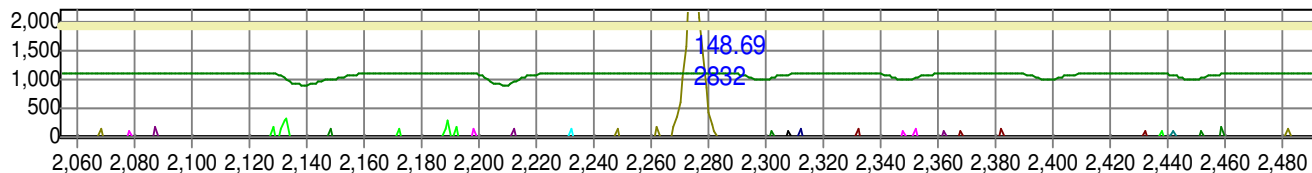
1S--> NCF2_12_13F_SOAP0522_B11.ab1-->



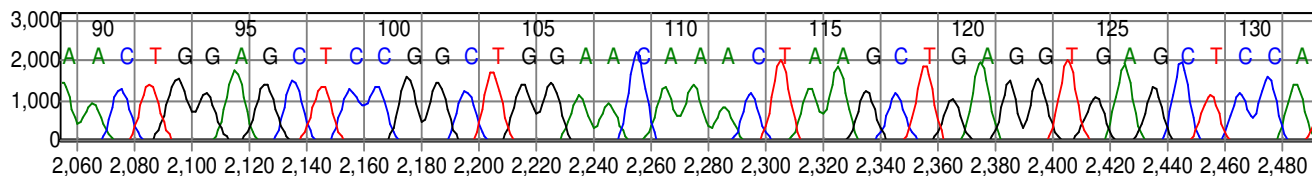
1S--> NCF2_12_13F_SOAP0522_B11.ab1 Mutations: 320C>A\$137.0



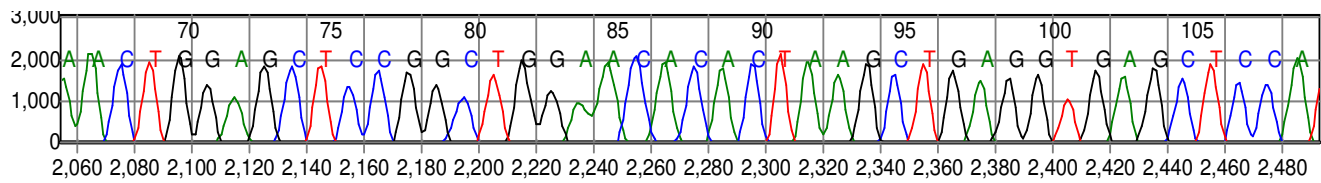
1S<-- NCF2_12_13R_SOAP0522_B12.ab1 Mutations: 320C>A\$148.7



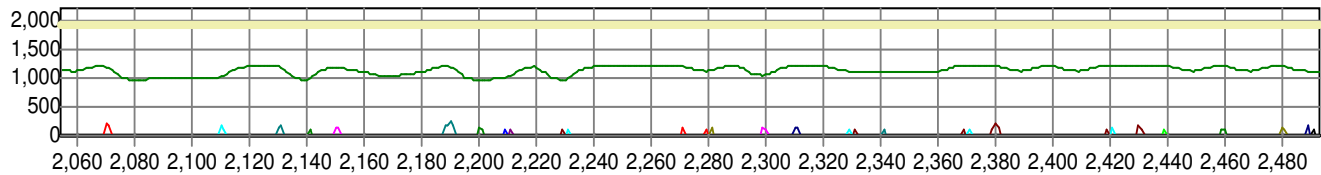
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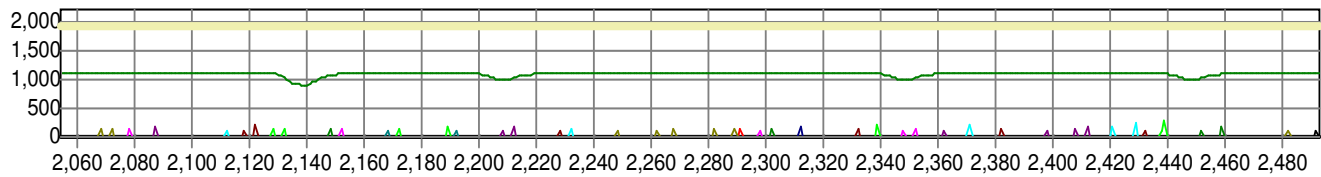
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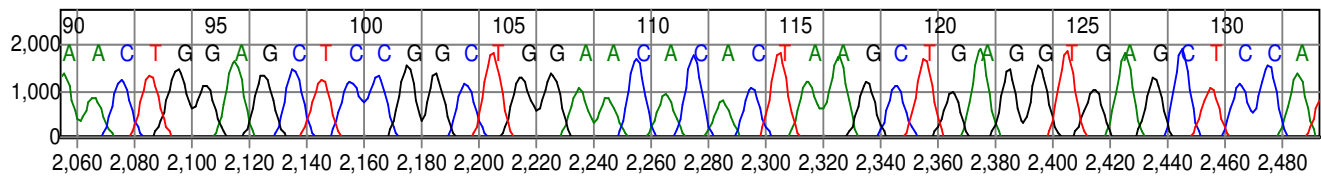
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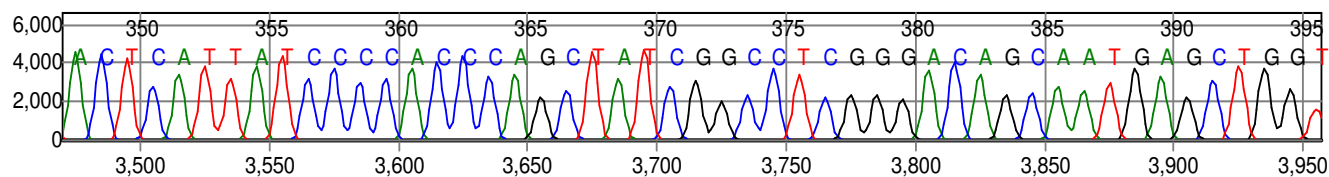
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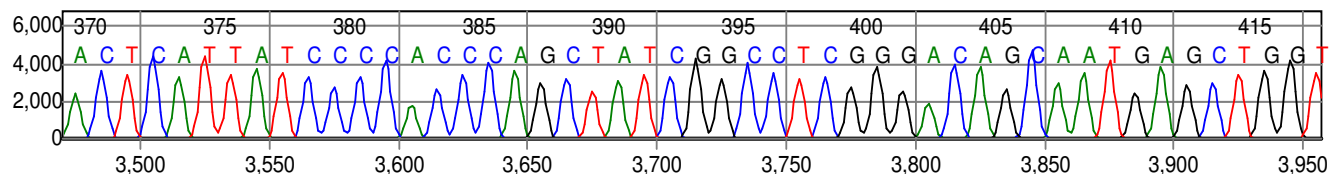
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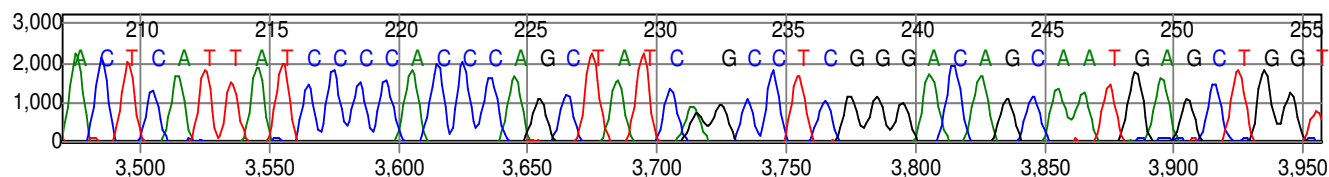
1R--> NCF2_e12_13_F_Synthesis_424.scf-->



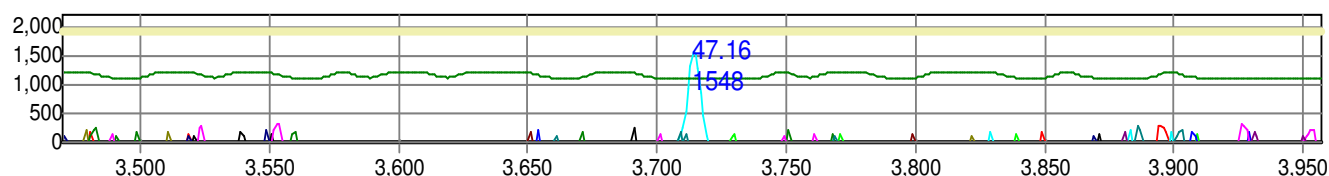
1R<-- NCF2_e12_13_R_Synthesis_424.scf<--



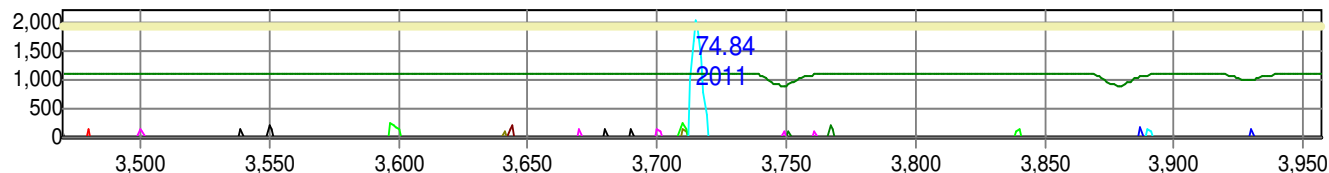
1S--> NCF2_12_13F_AP0058_E09.ab1-->



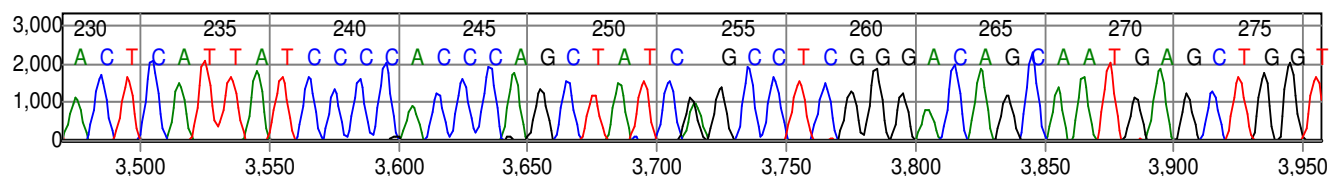
1S--> NCF2_12_13F_AP0058_E09.ab1 Mutations: 464G>GA\$47.2



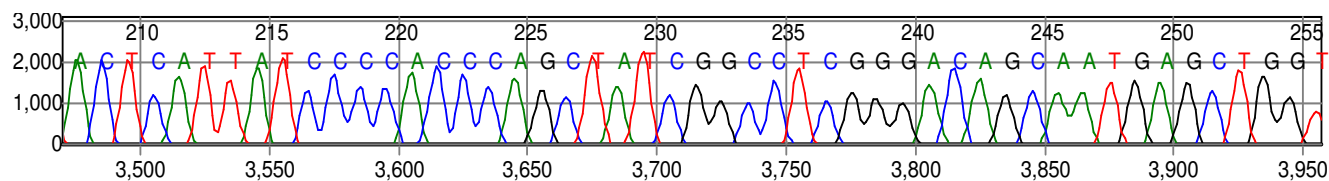
1S<-- NCF2_12_13R_AP0058_E10.ab1 Mutations: 464G>GA\$74.8



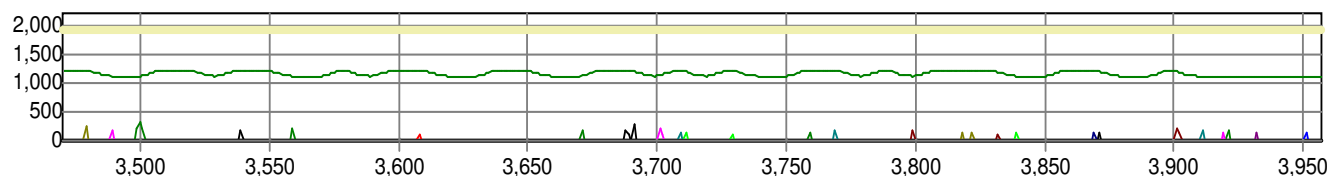
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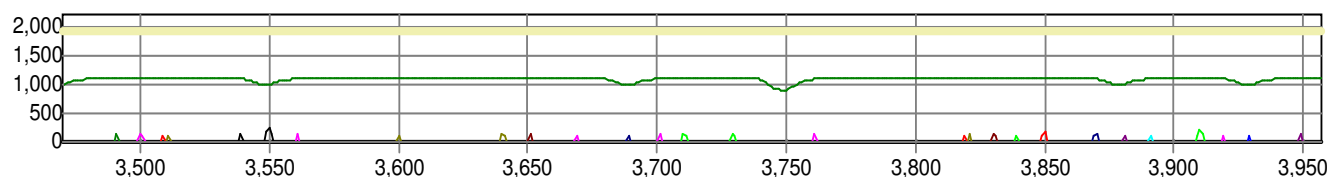
1S--> NCF2_12_13F_AP0059_F09.ab1-->



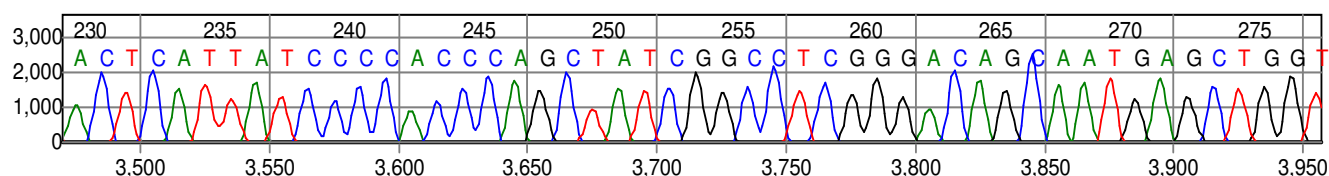
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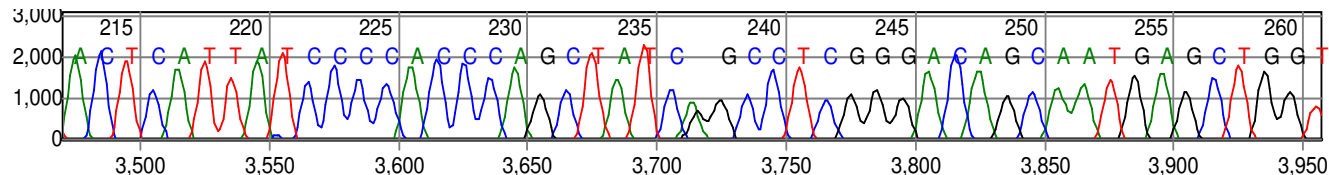
1S<-- NCF2_12_13R_AP0059_F10.ab1



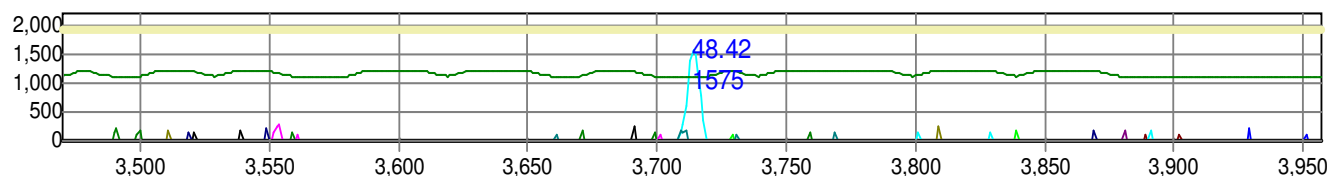
1S<-- NCF2_12_13R_AP0059_F10.ab1<--



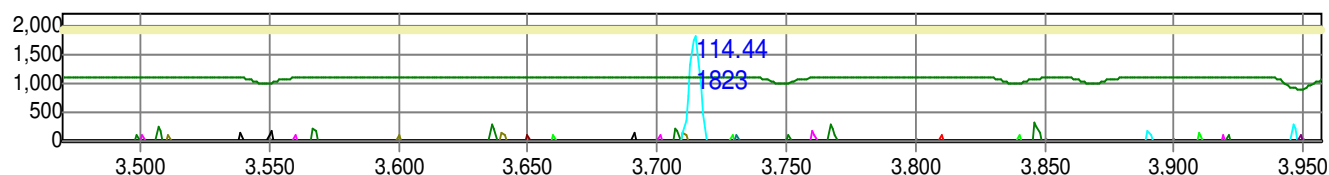
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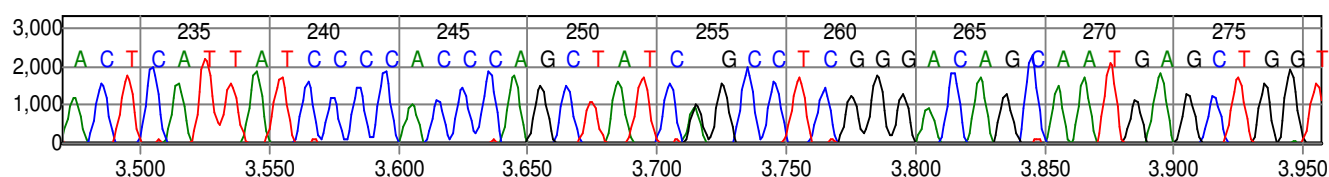
1S--> NCF2_12_13F_PR0044_H05.ab1 Mutations: 464G>GA\$48.4



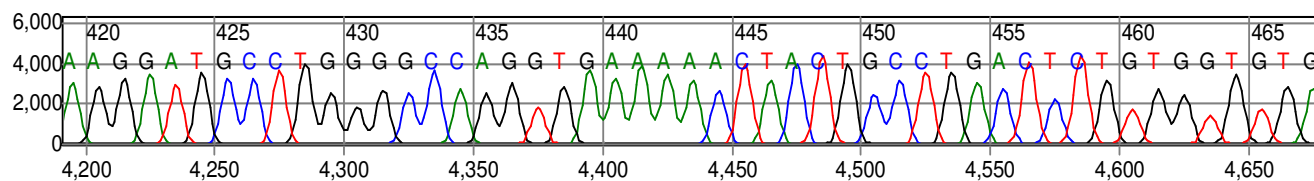
1S<-- NCF2_12_13R_PR0044_H06.ab1 Mutations: 464G>GA\$114.4



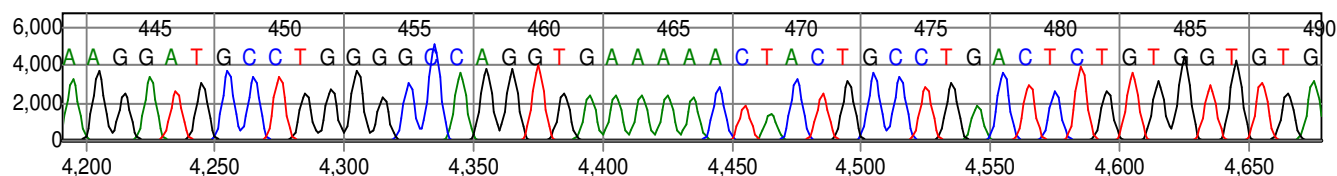
1S<-- NCF2_12_13R_PR0044_H06.ab1<--



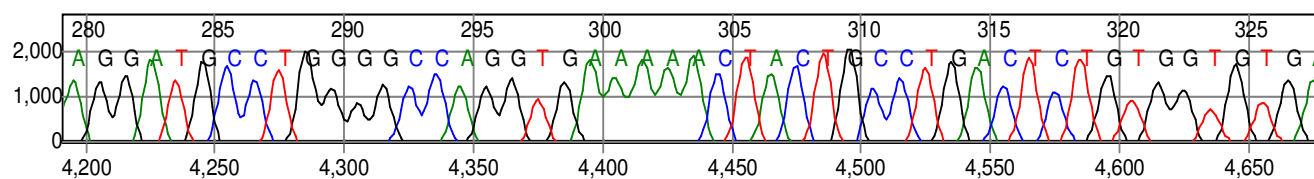
1R--> NCF2_e12_13_F_Synthesis_424.scf-->



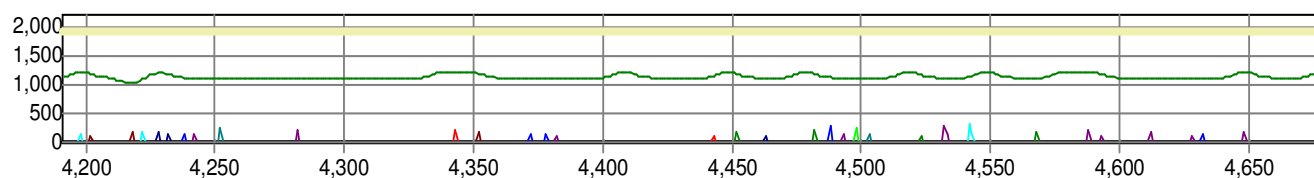
1R<-- NCF2_e12_13_R_Synthesis_401.scf<--



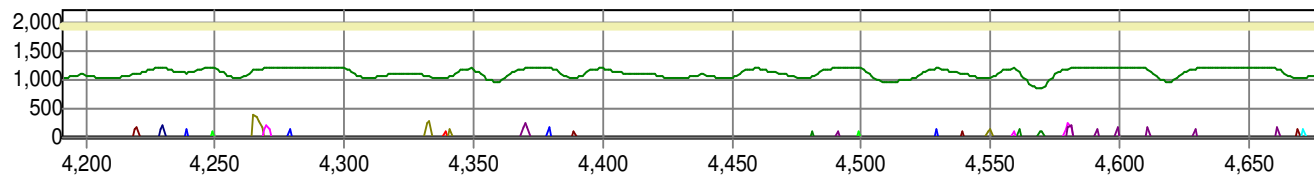
1S--> NCF2_12_13F_Normal_G07.ab1-->



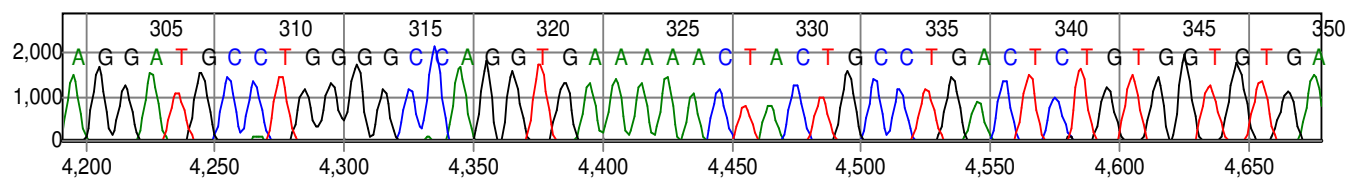
1S--> NCF2_12_13F_Normal_G07.ab1



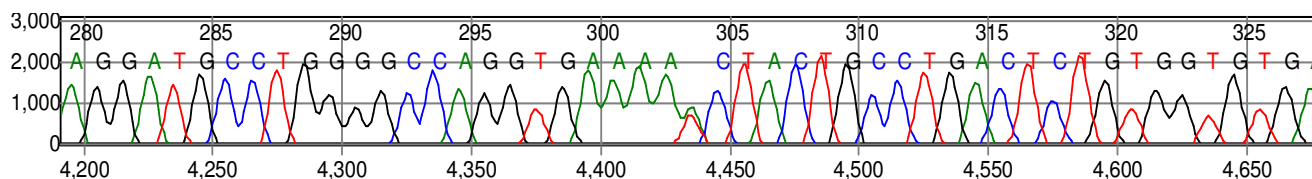
1S<-- NCF2_12_13R_Normal_G08.ab1



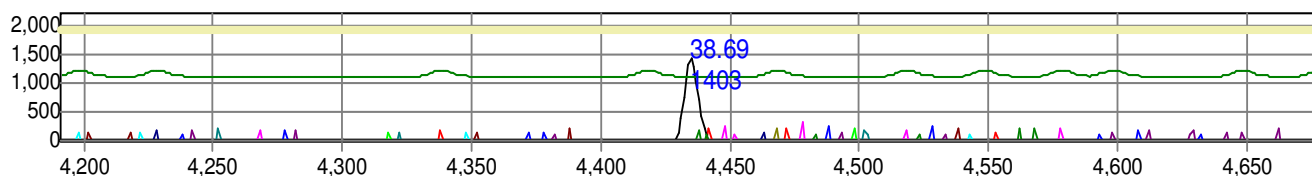
1S<-- NCF2_12_13R_Normal_G08.ab1<--



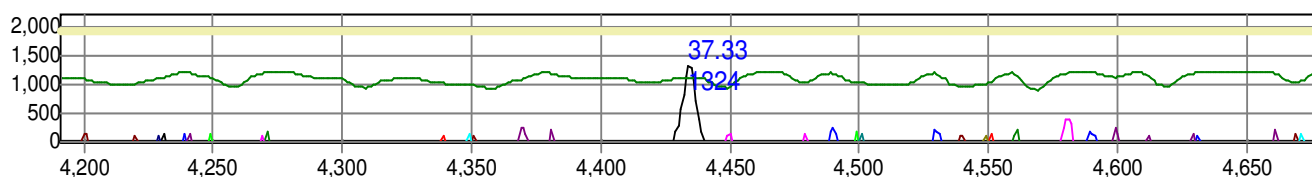
1S--> NCF2_12_13F_SOAP0471_H11.ab1-->



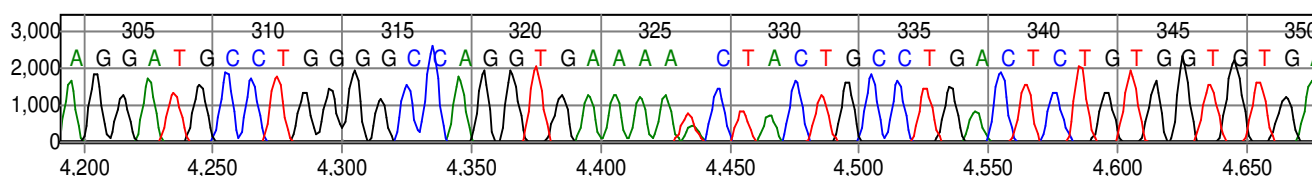
1S--> NCF2_12_13F_SOAP0471_H11.ab1 Mutations: 536A>AT\$38.7



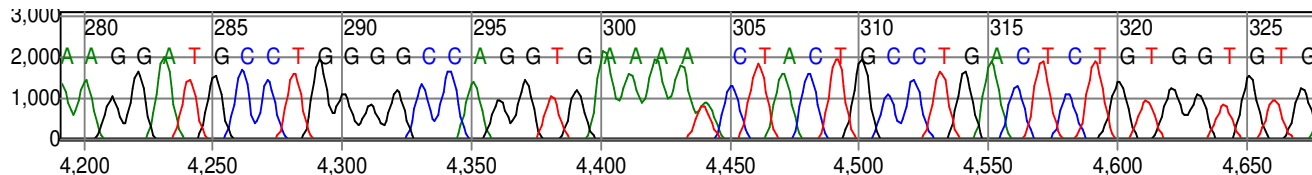
1S<-- NCF2_12_13R_SOAP0471_H12.ab1 Mutations: 536A>AT\$37.3



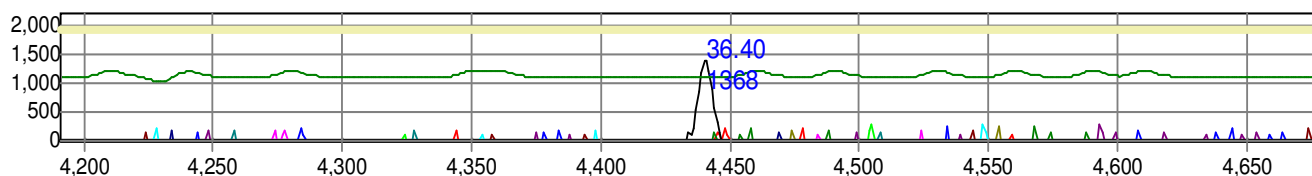
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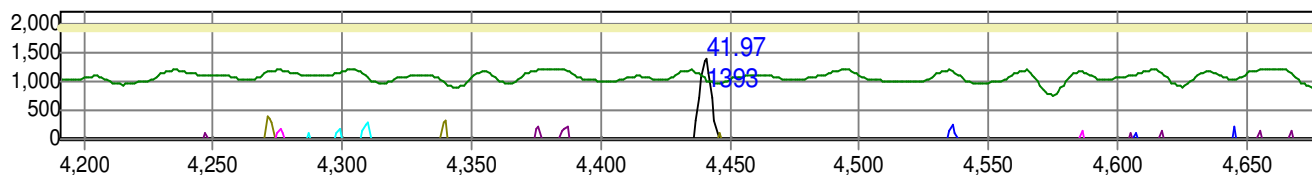
1S--> NCF2_12_13F_SOPR0395_G05.ab1-->



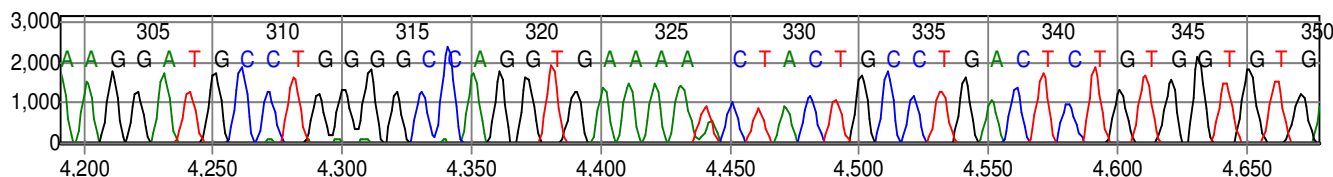
1S--> NCF2_12_13F_SOPR0395_G05.ab1 Mutations: 536A>AT\$36.4



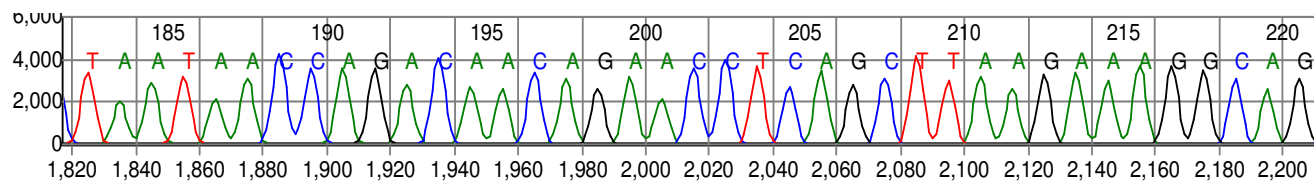
1S<-- NCF2_12_13R_SOPR0395_G06.ab1 Mutations: 536A>AT\$42.0



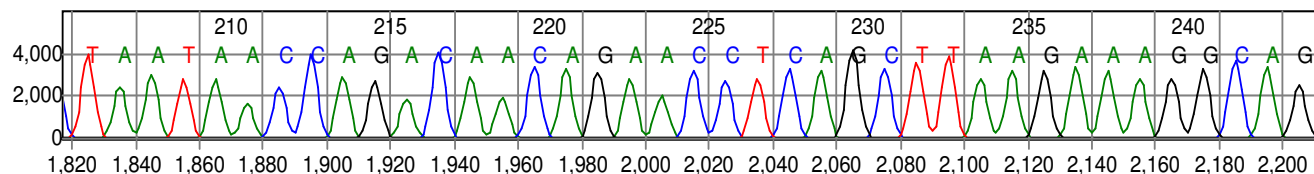
1S<-- NCF2_12_13R_SOPR0395_G06.ab1<--



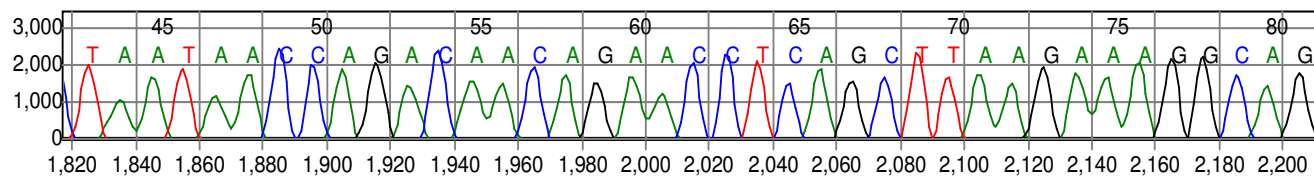
1R--> NCF2_e14_F_Synthesis_257.scf-->



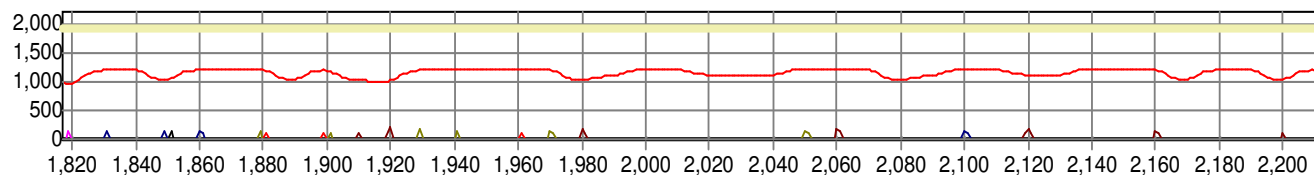
1R<-- NCF2_e14_R_Synthesis_257.scf<--



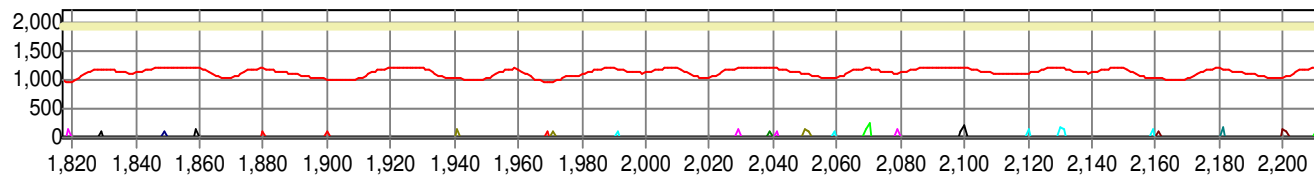
1S--> NCF2_14F_AP0022_A03.ab1-->



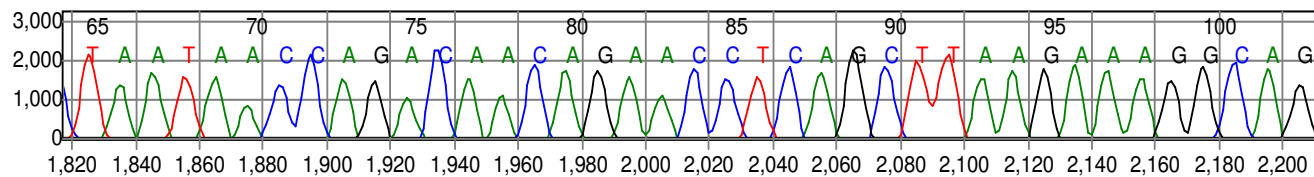
1S--> NCF2_14F_AP0022_A03.ab1



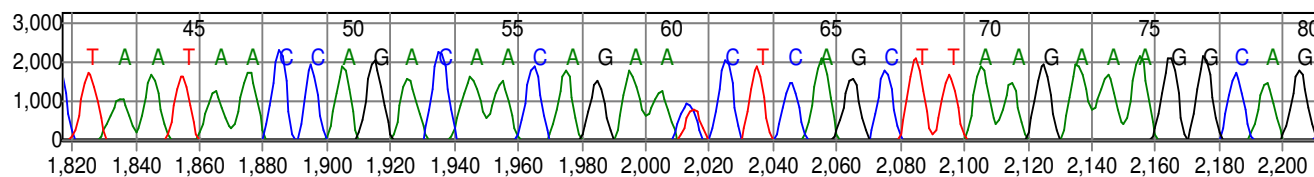
1S<-- NCF2_14R_AP0022_A04.ab1



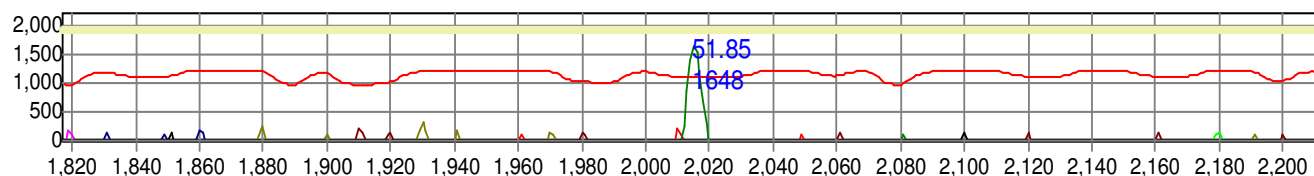
1S<-- NCF2_14R_AP0022_A04.ab1<--



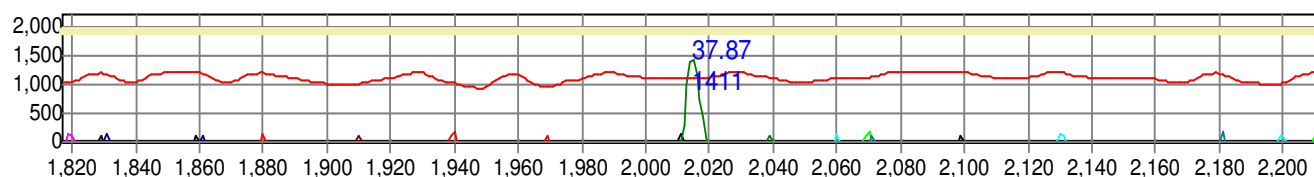
1S--> NCF2_14F_AP0055_C03.ab1-->



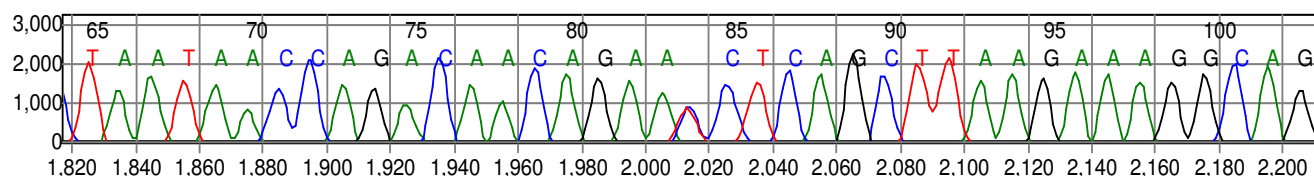
1S--> NCF2_14F_AP0055_C03.ab1 Mutations: 250C>CT\$51.9



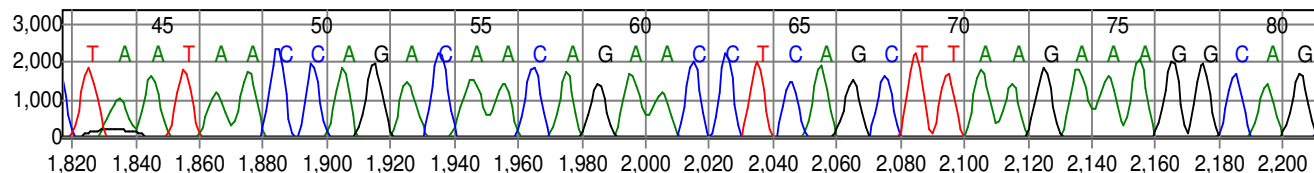
1S<-- NCF2_14R_AP0055_C04.ab1 Mutations: 250C>CT\$37.9



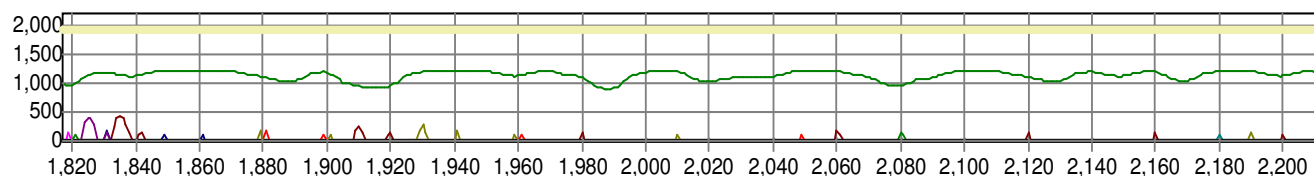
1S<-- NCF2_14R_AP0055_C04.ab1<--



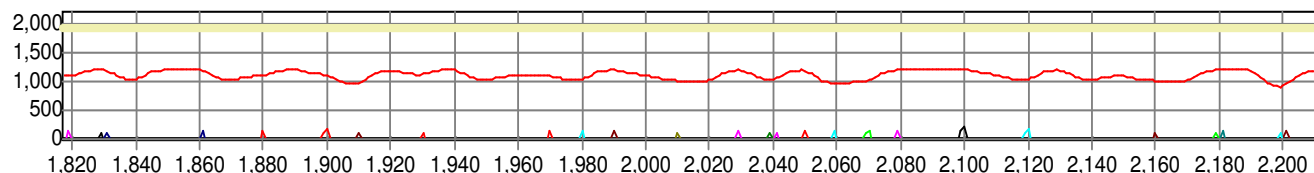
1S--> NCF2_14F_AP0056_D03.ab1-->



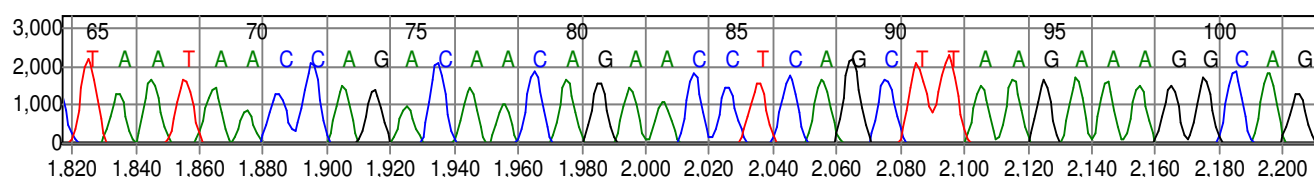
1S--> NCF2_14F_AP0056_D03.ab1



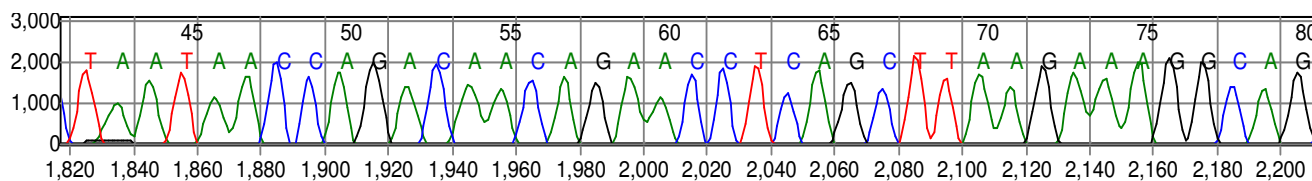
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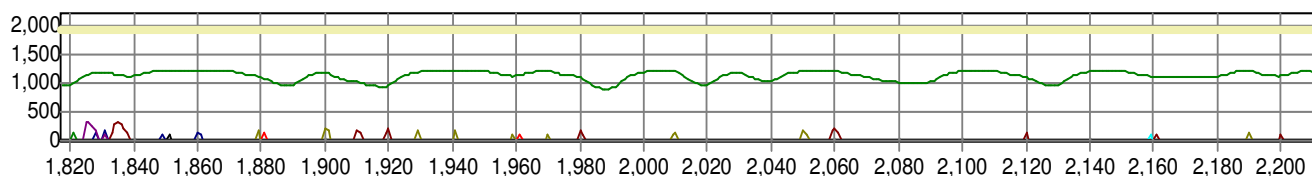
1S<-- NCF2_14R_AP0056_D04.ab1<--



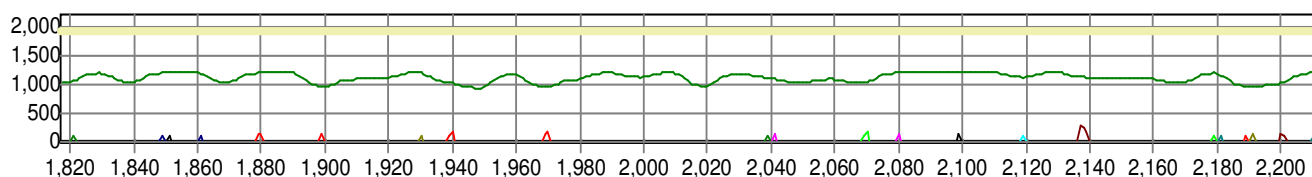
1S--> NCF2_14F_AP0161_E03.ab1-->



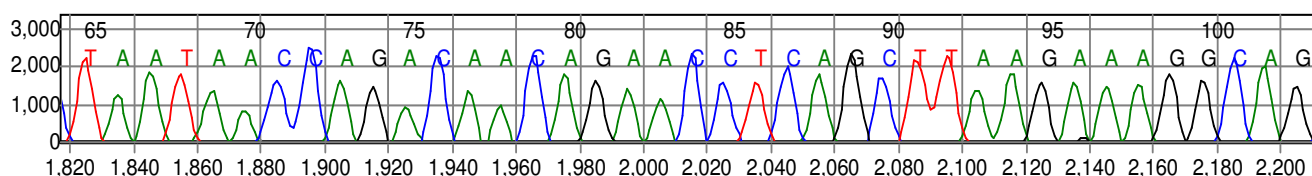
1S--> NCF2_14F_AP0161_E03.ab1



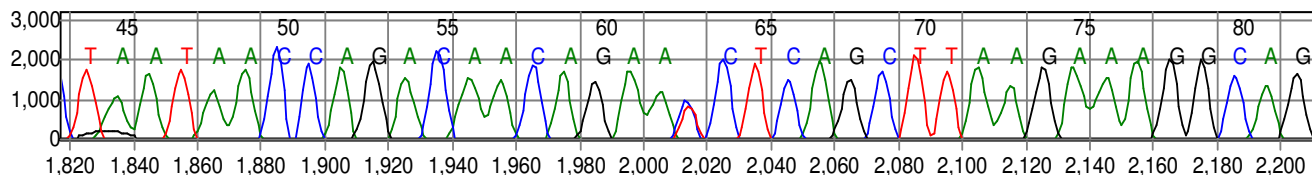
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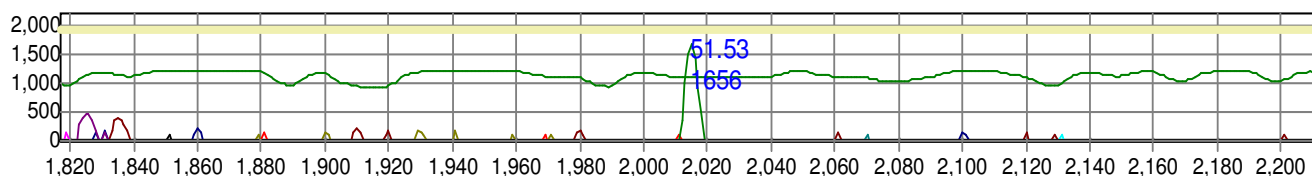
1S<-- NCF2_14R_AP0161_E04.ab1<--



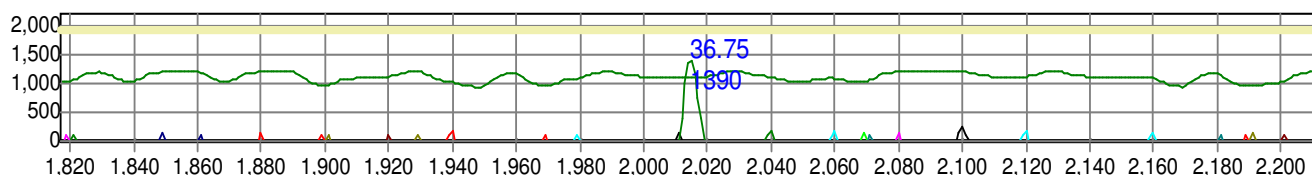
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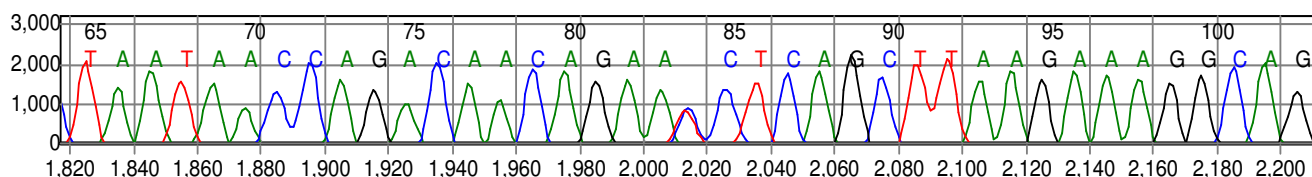
1S--> NCF2_14F_AP0162_F03.ab1 Mutations: 250C>CT\$51.5



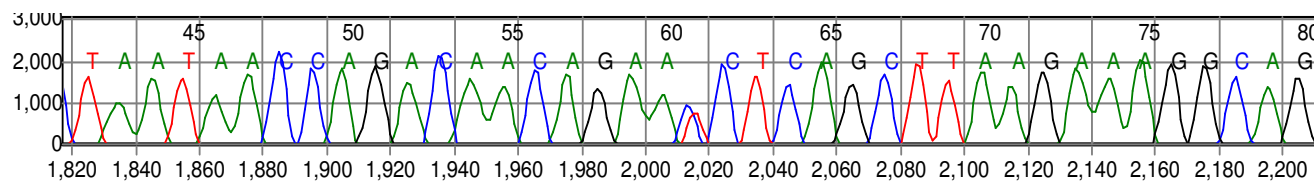
1S<-- NCF2_14R_AP0162_F04.ab1 Mutations: 250C>CT\$36.7



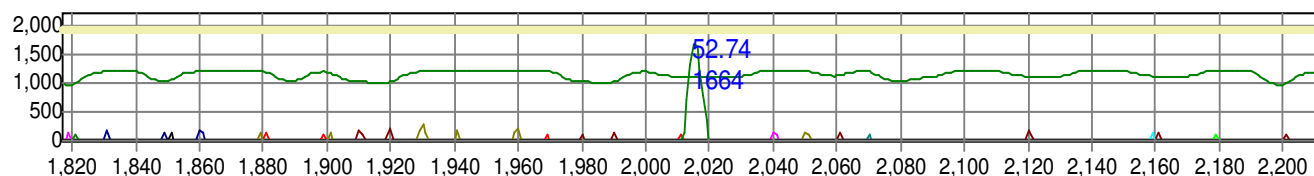
1S<-- NCF2_14R_AP0162_F04.ab1<--



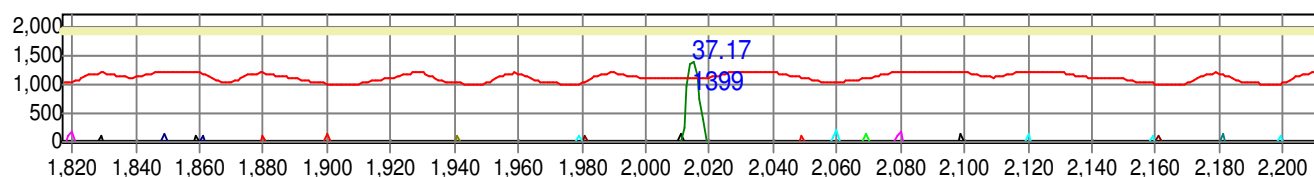
1S--> NCF2_14F_NP0004_B03.ab1-->



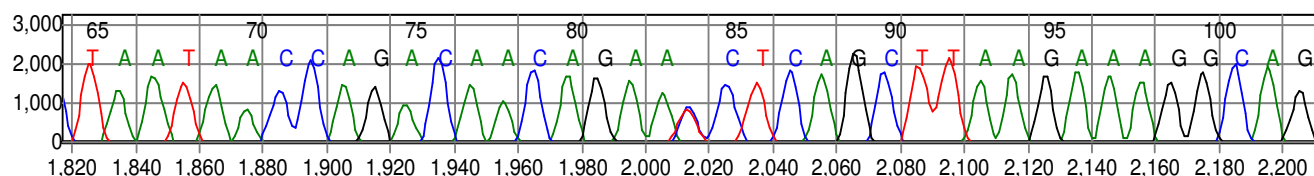
1S--> NCF2_14F_NP0004_B03.ab1 Mutations: 250C>CT\$52.7



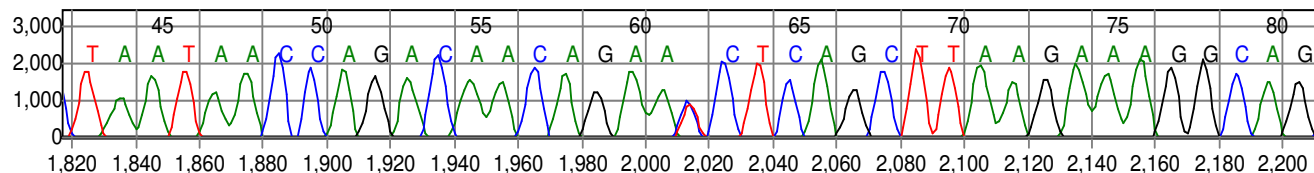
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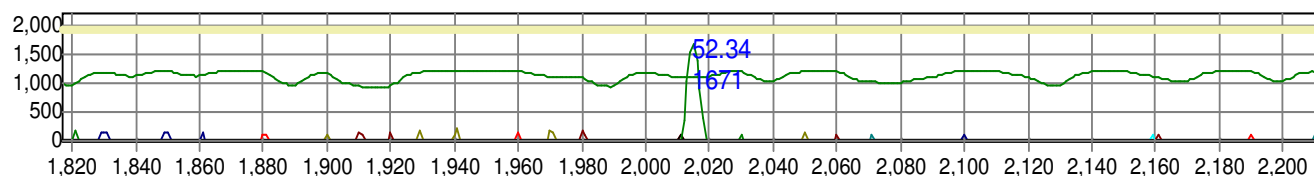
1S<-- NCF2_14R_NP0004_B04.ab1<--



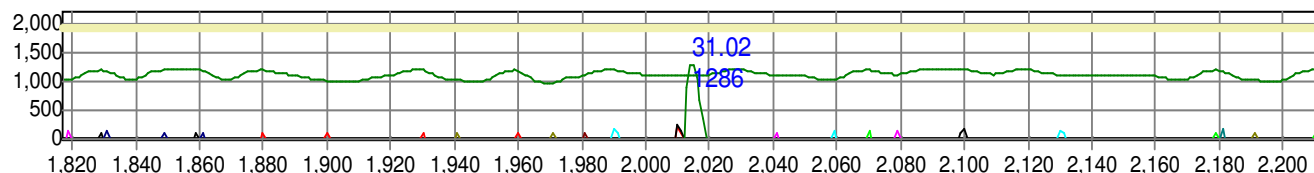
1S--> NCF2_14F_PR0020_E05.ab1-->



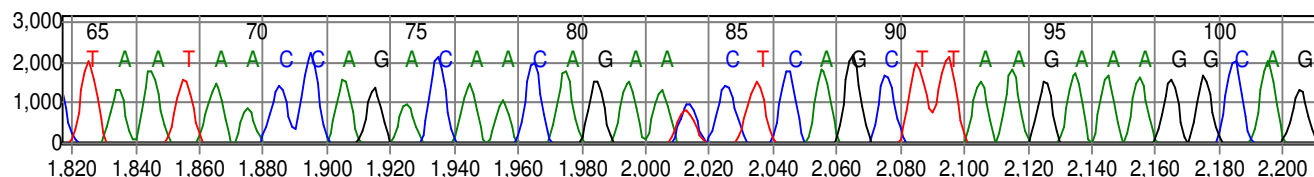
1S--> NCF2_14F_PR0020_E05.ab1 Mutations: 250C>CT\$52.3



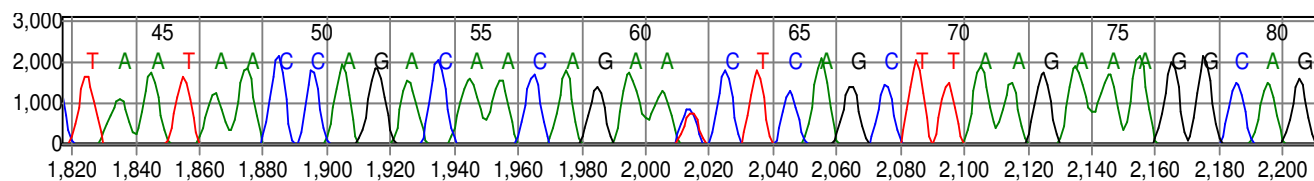
1S<-- NCF2_14R_PR0020_E06.ab1 Mutations: 250C>CT\$31.0



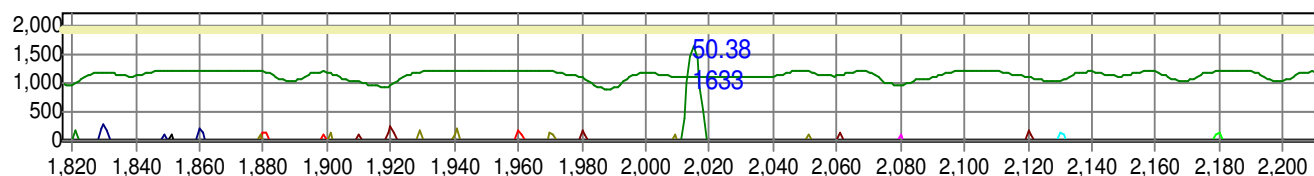
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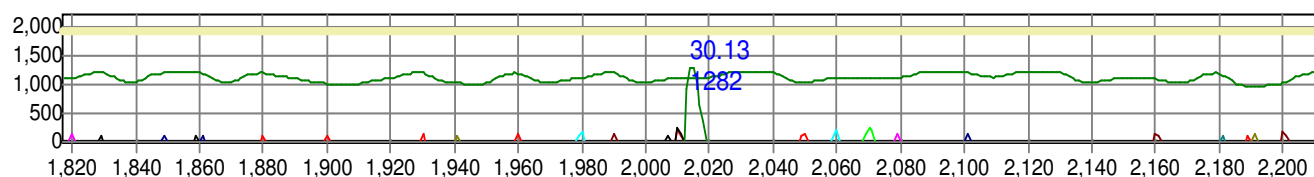
1S--> NCF2_14F_PR0042_F05.ab1-->



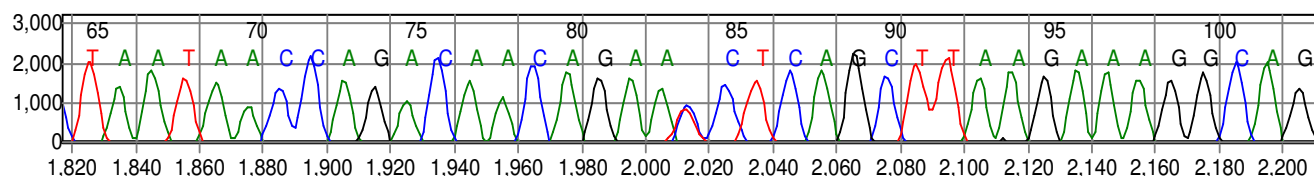
1S--> NCF2_14F_PR0042_F05.ab1 Mutations: 250C>CT\$50.4



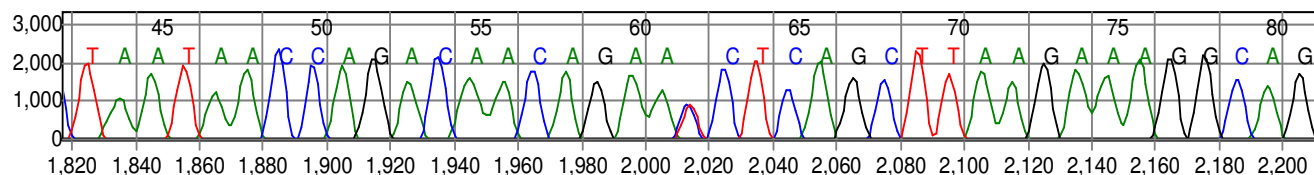
1S<-- NCF2_14R_PR0042_F06.ab1 Mutations: 250C>CT\$30.1



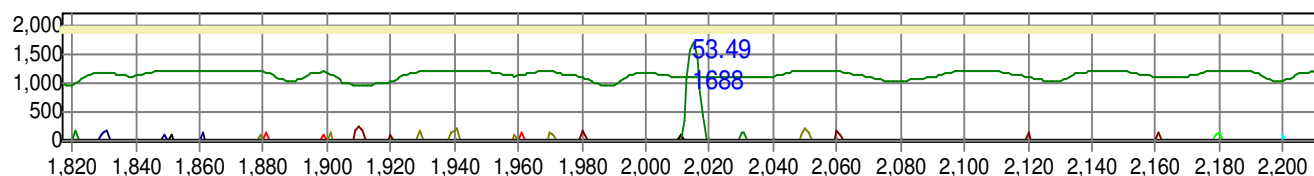
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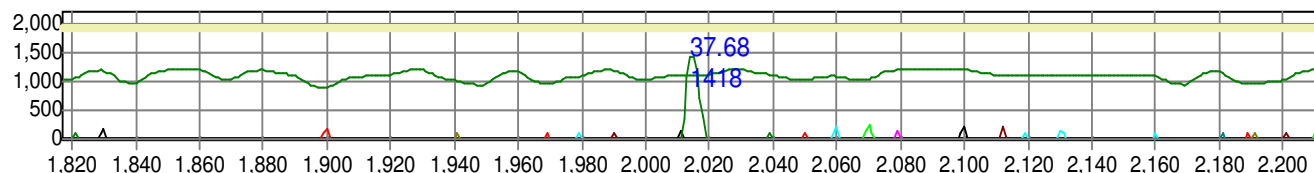
1S--> NCF2_14F_PR0125_G05.ab1-->



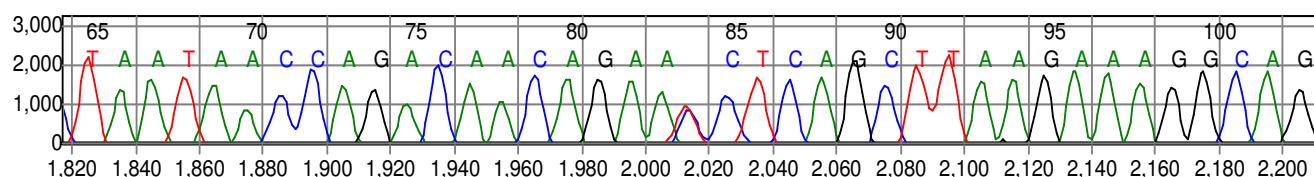
1S--> NCF2_14F_PR0125_G05.ab1 Mutations: 250C>CT\$53.5



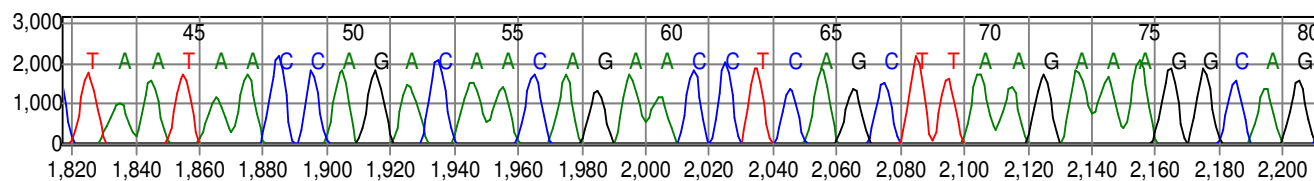
1S<-- NCF2_14R_PR0125_G06.ab1 Mutations: 250C>CT\$37.7



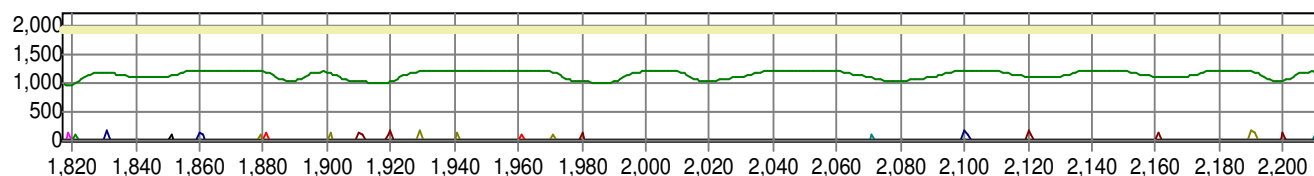
1S<-- NCF2_14R_PR0125_G06.ab1<--



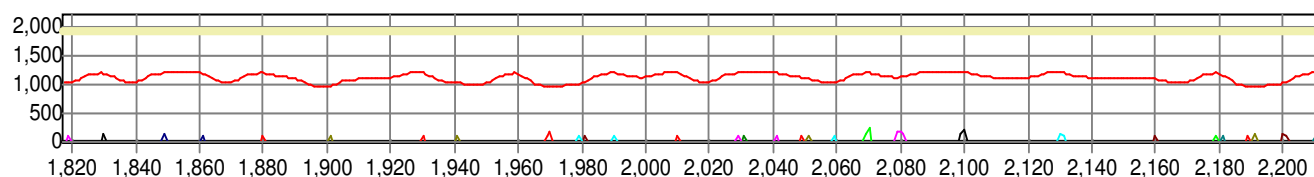
1S--> NCF2_14F_SOAP0439_C05.ab1-->



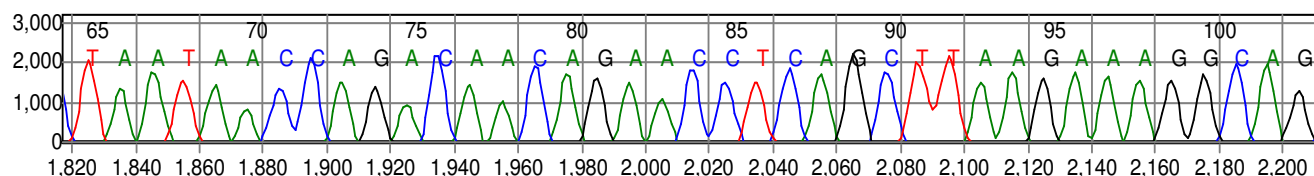
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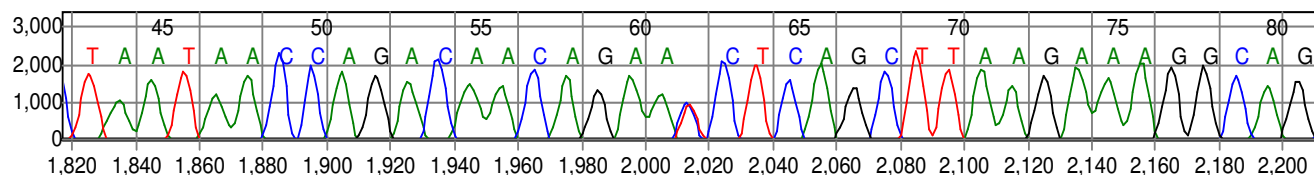
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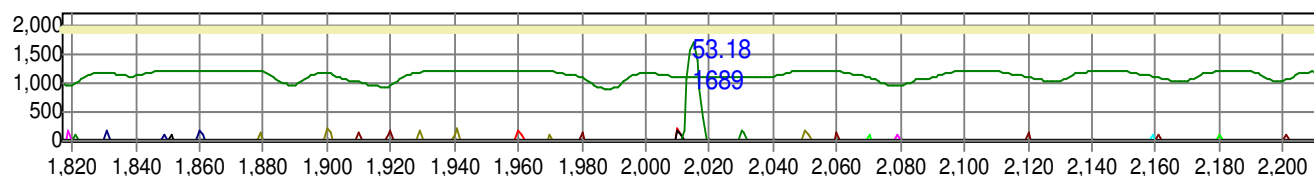
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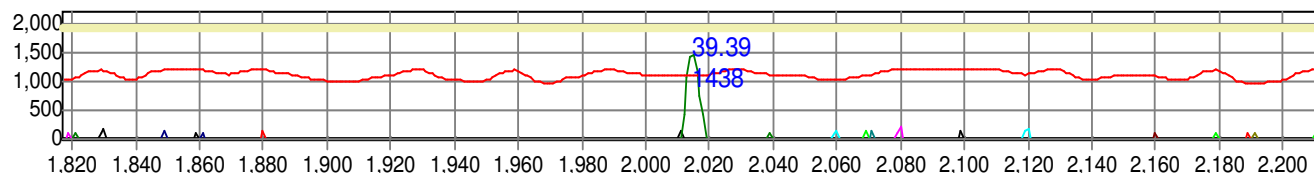
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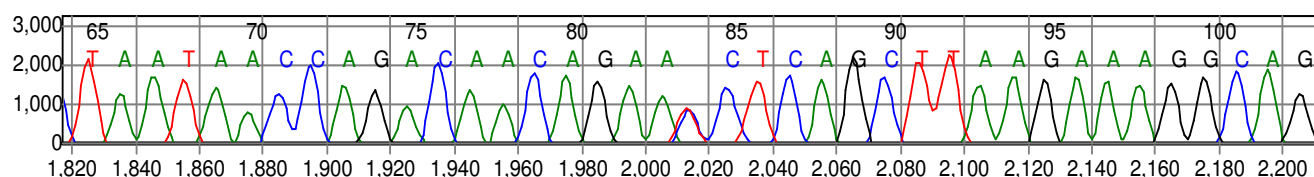
1S--> NCF2_14F_SOAP0440_D05.ab1 Mutations: 250C>CT\$53.2



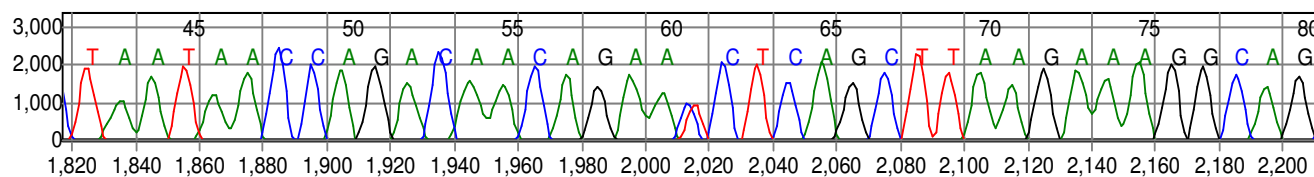
1S<-- NCF2_14R_SOAP0440_D06.ab1 Mutations: 250C>CT\$39.4



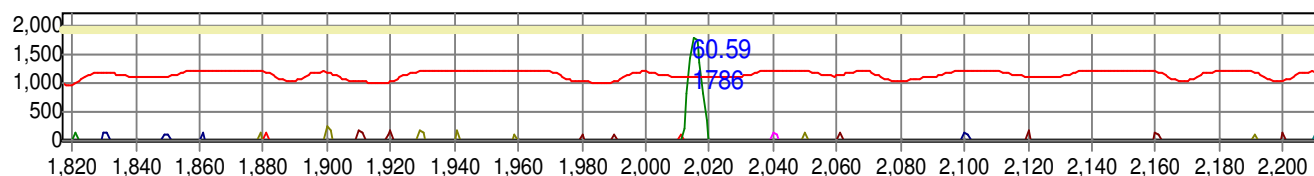
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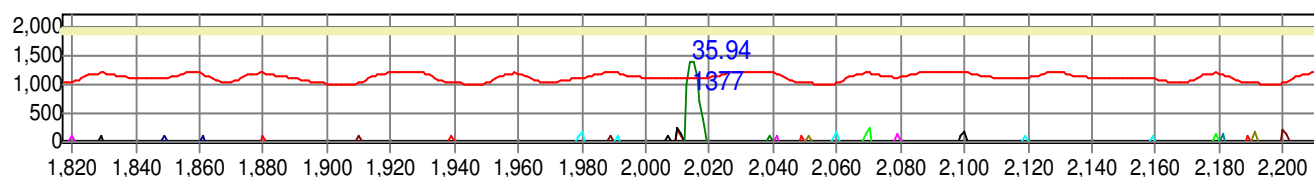
1S--> NCF2_14F_SOAP0441_A05.ab1-->



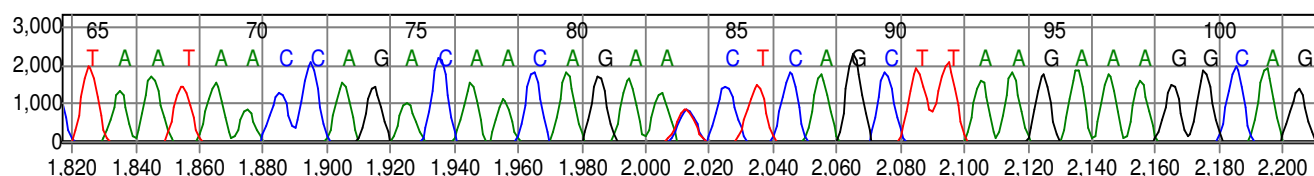
1S--> NCF2_14F_SOAP0441_A05.ab1 Mutations: 250C>CT\$60.6



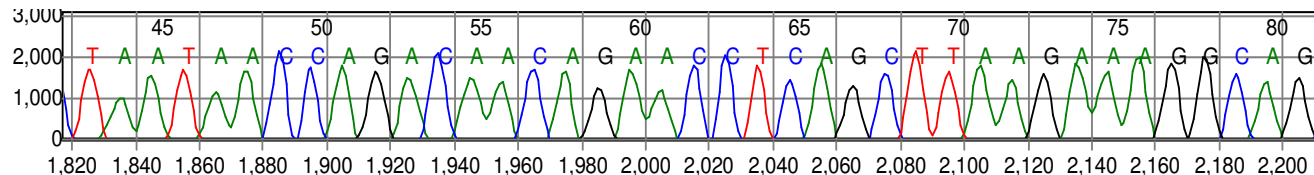
1S<-- NCF2_14R_SOAP0441_A06.ab1 Mutations: 250C>CT\$35.9



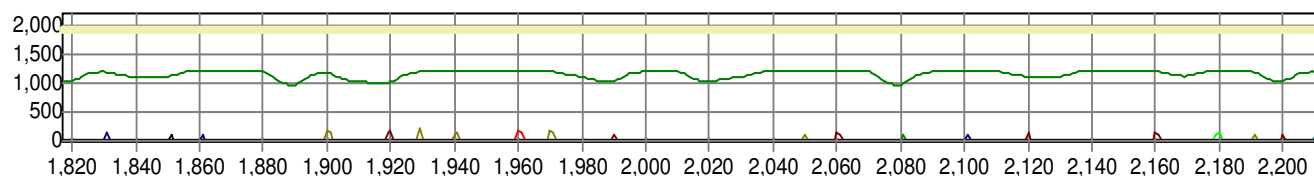
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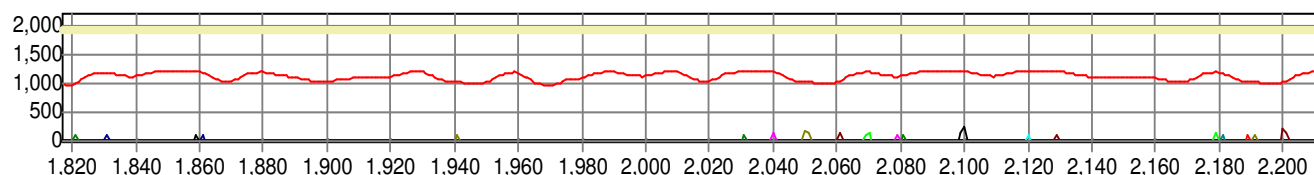
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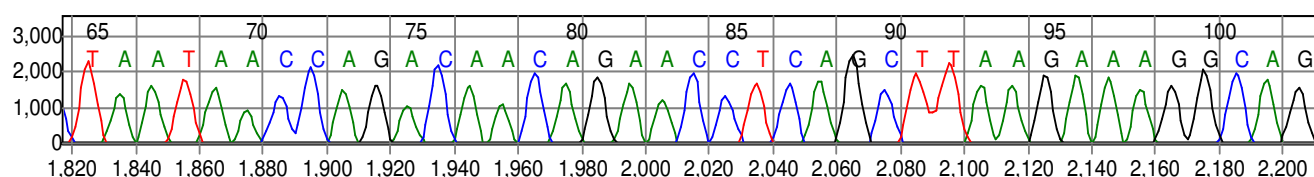
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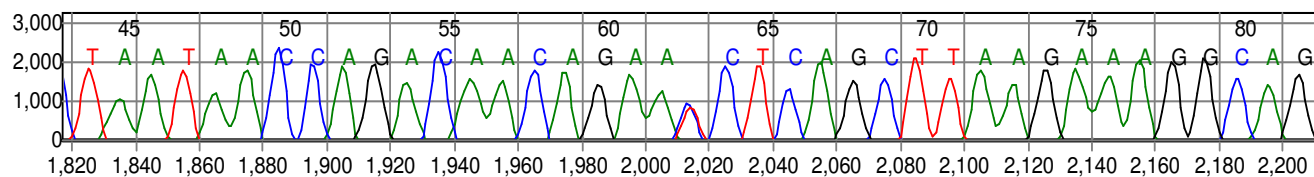
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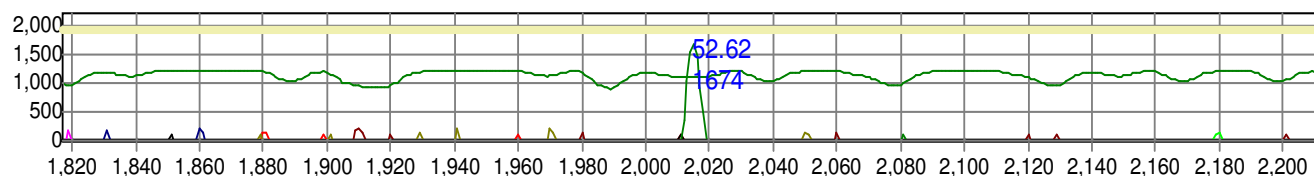
1S<-- NCF2_14R_SOAP0442_B06.ab1<--



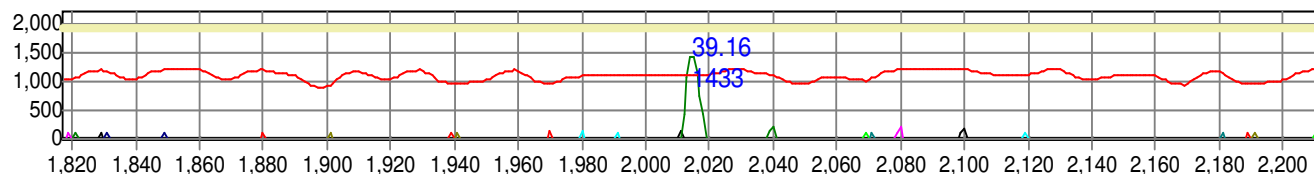
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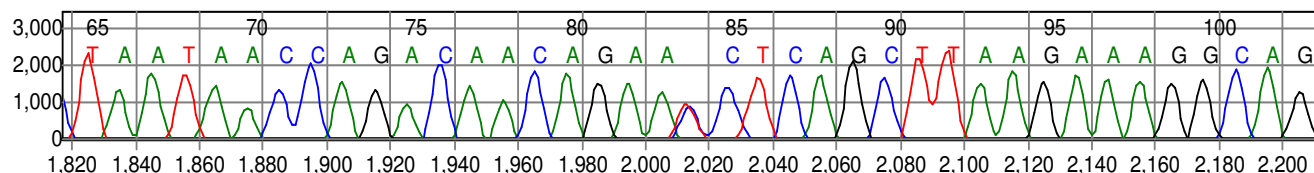
1S--> NCF2_14F_SOAP0522_G03.ab1 Mutations: 250C>CT\$52.6



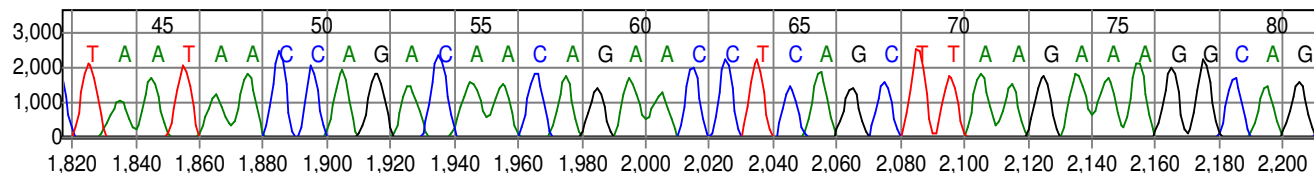
1S<-- NCF2_14R_SOAP0522_G04.ab1 Mutations: 250C>CT\$39.2



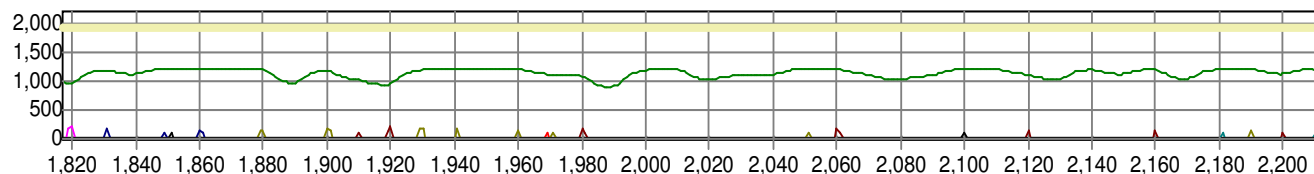
1S<-- NCF2_14R_SOAP0522_G04.ab1<--



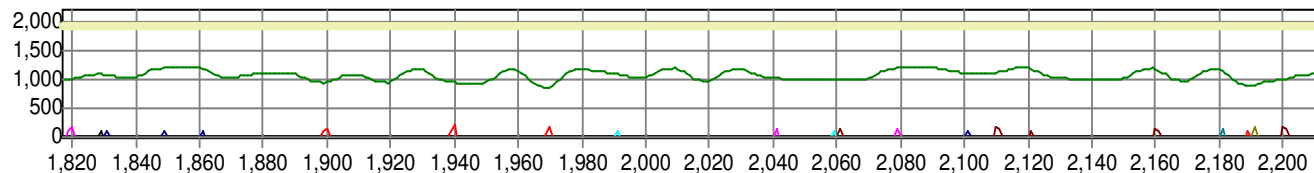
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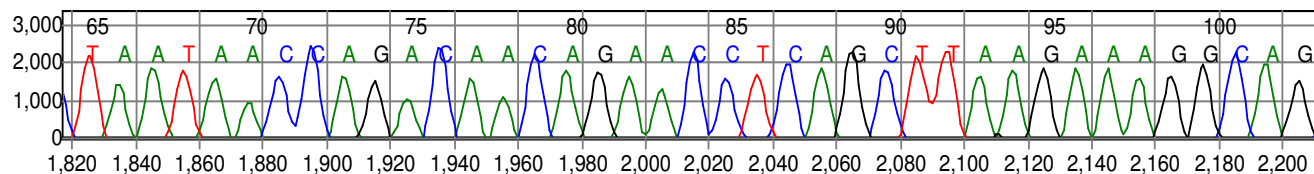
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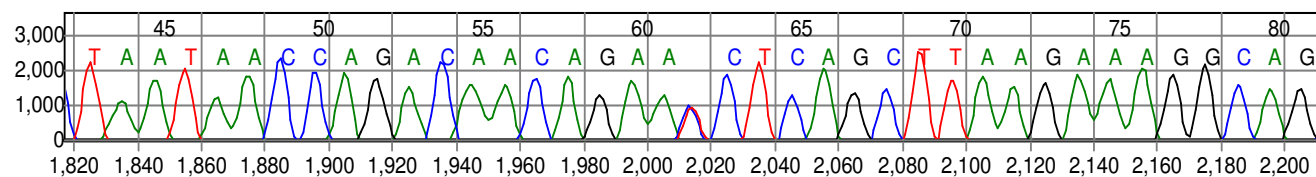
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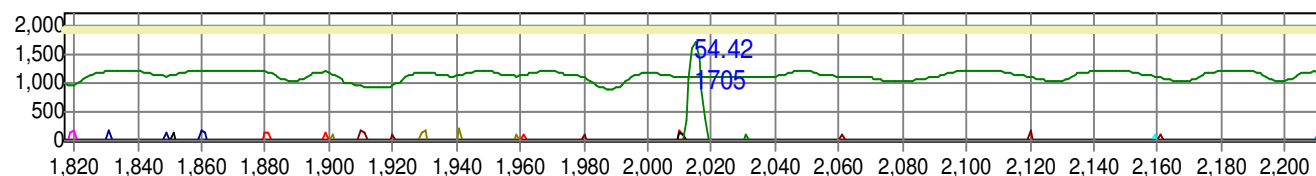
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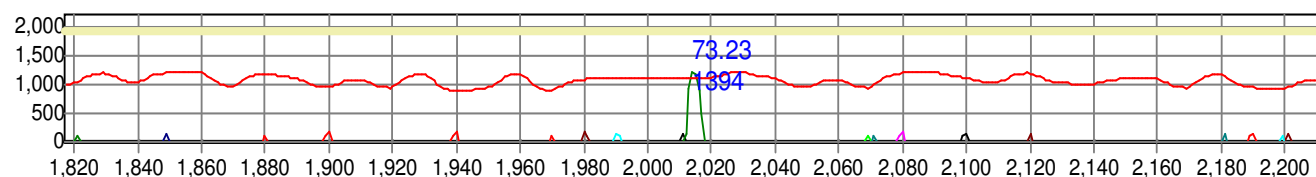
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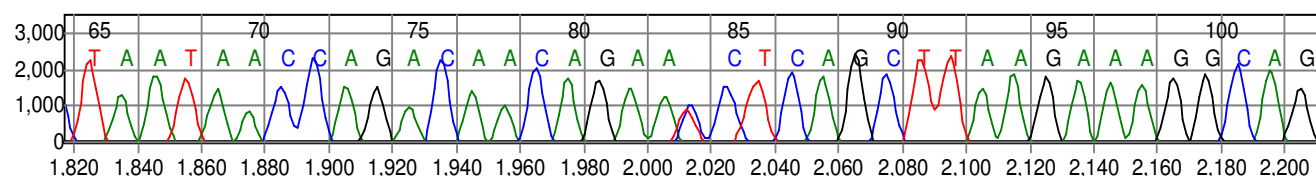
1S--> NCF2_14F_SOPR0317_H05.ab1 Mutations: 250C>CT\$54.4



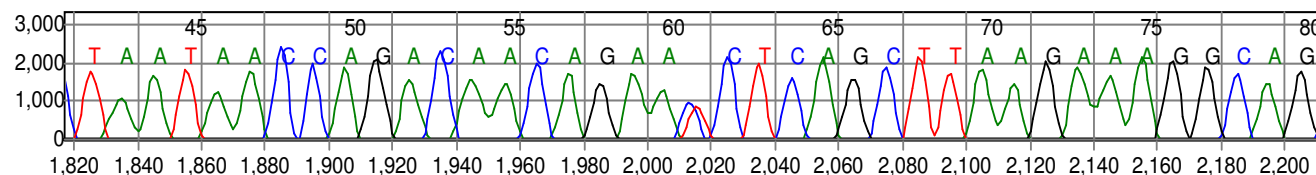
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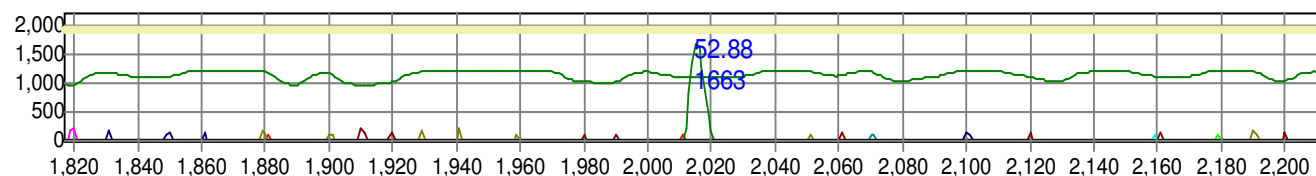
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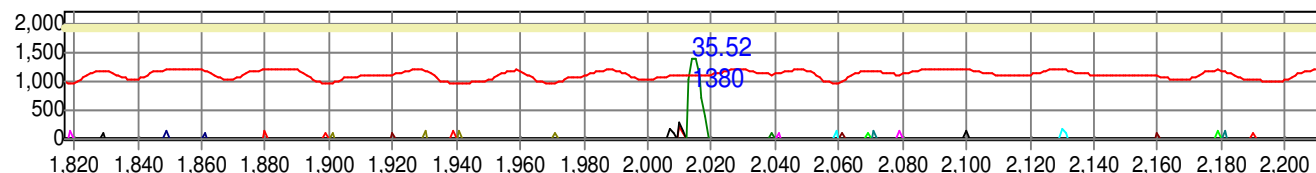
1S--> NCF2_14F_SOPR0359_A07.ab1-->



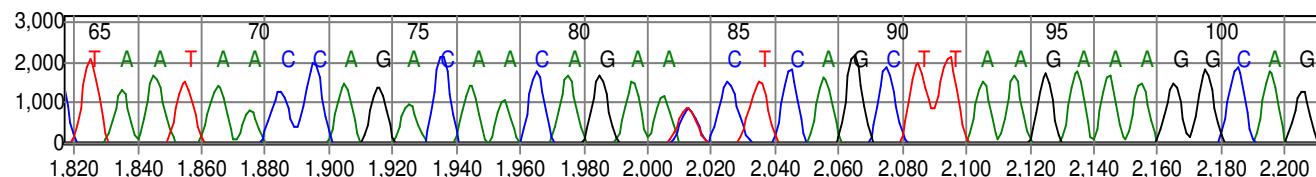
1S--> NCF2_14F_SOPR0359_A07.ab1 Mutations: 250C>CT\$52.9



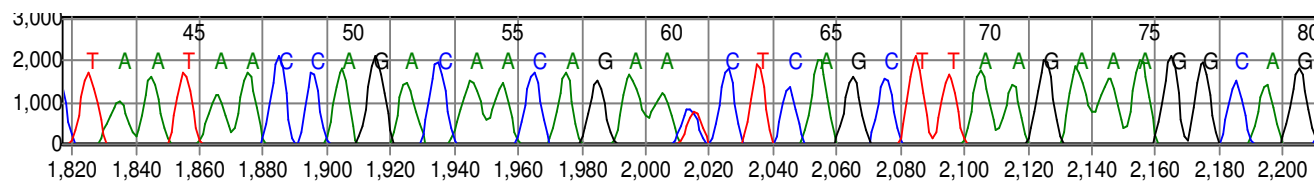
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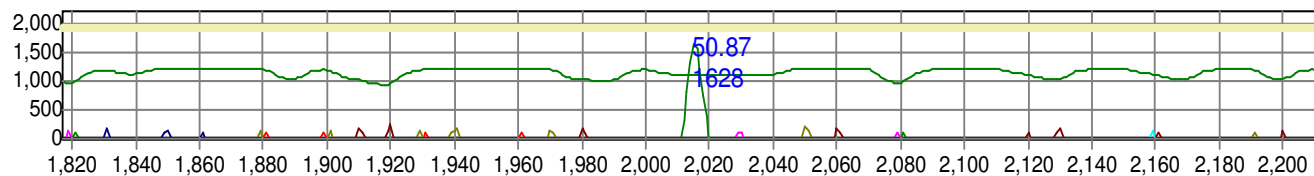
1S<-- NCF2_14R_SOPR0359_A08.ab1<--



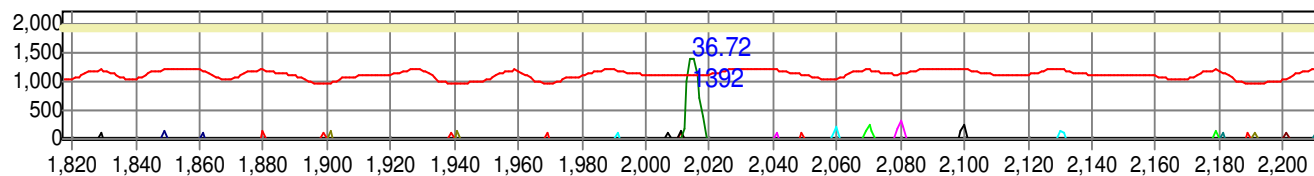
1S--> NCF2_14F_SOPR0361_B07.ab1-->



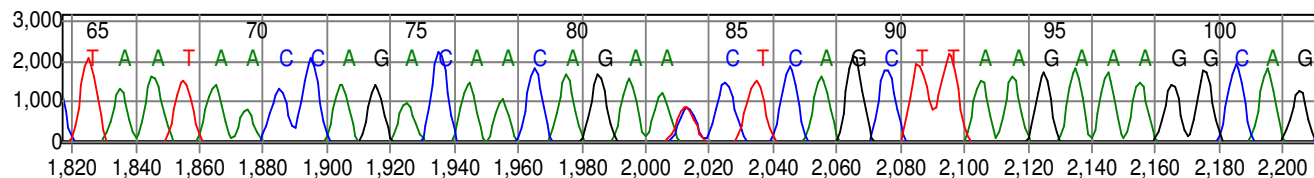
1S--> NCF2_14F_SOPR0361_B07.ab1 Mutations: 250C>CT\$50.9



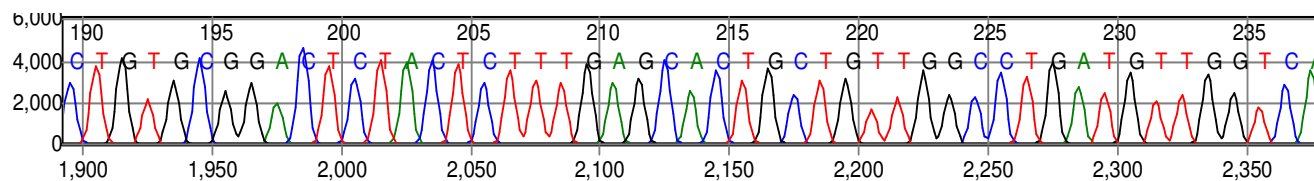
1S<-- NCF2_14R_SOPR0361_B08.ab1 Mutations: 250C>CT\$36.7



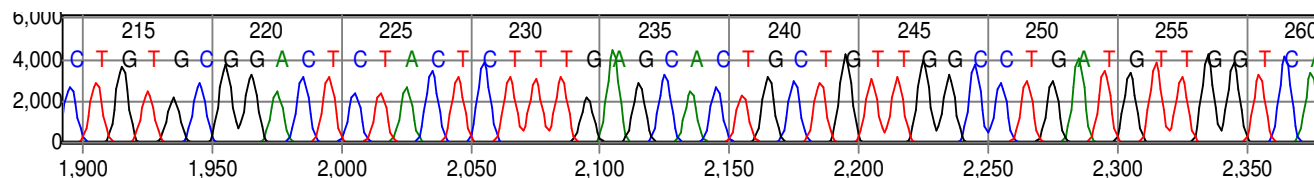
1S<-- NCF2_14R_SOPR0361_B08.ab1<--



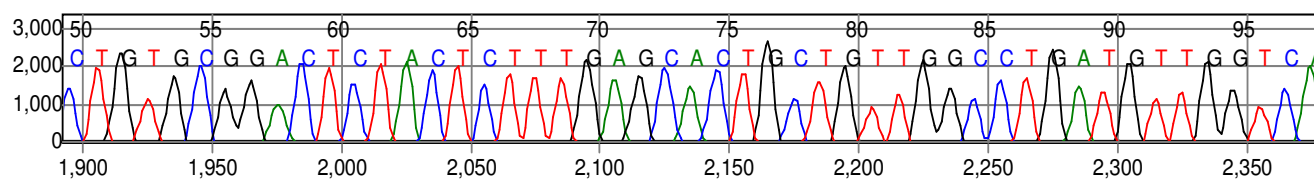
1R--> NOD2_F_Synthesis_17415.scf-->



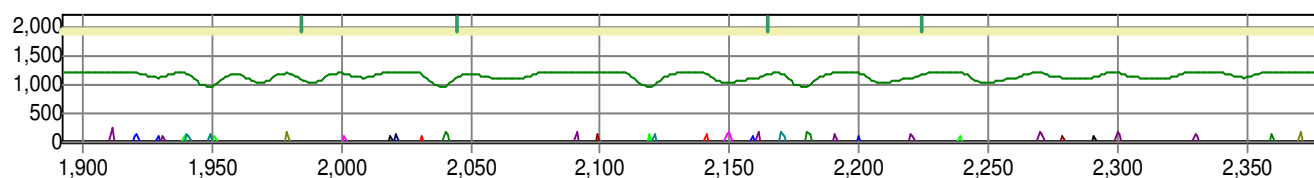
1R<-- NOD2_R_Synthesis_17415.scf<--



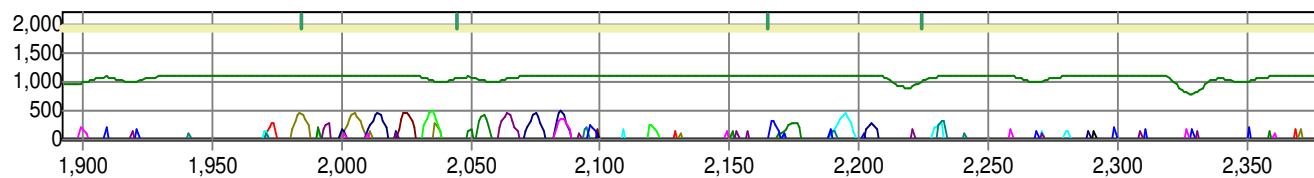
1S--> NOD2_4cF_SOAP0516_G03.ab1-->



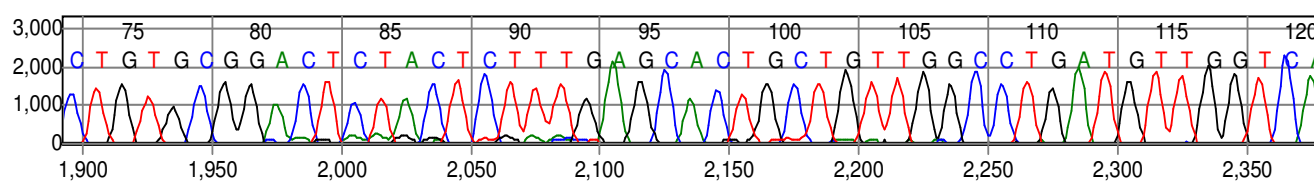
1S--> NOD2_4cF_SOAP0516_G03.ab1



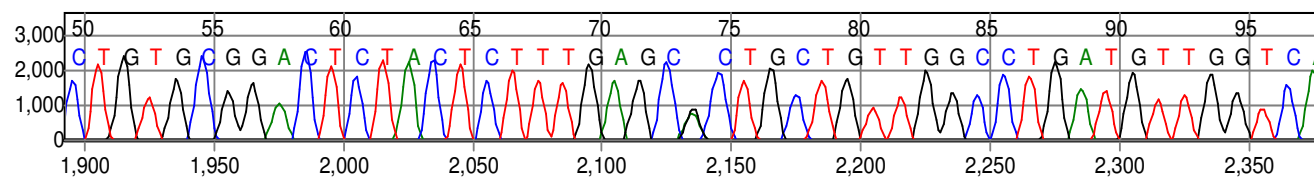
1S<-- NOD2_4cR_SOAP0516_G04.ab1



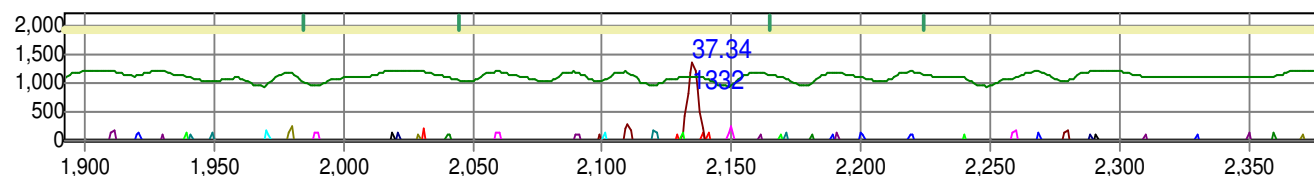
1S<-- NOD2_4cR_SOAP0516_G04.ab1<--



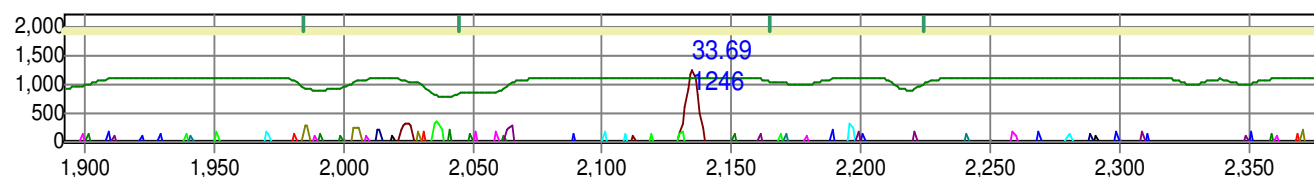
1S--> NOD2_4cF_SOAP0517_H03.ab1-->



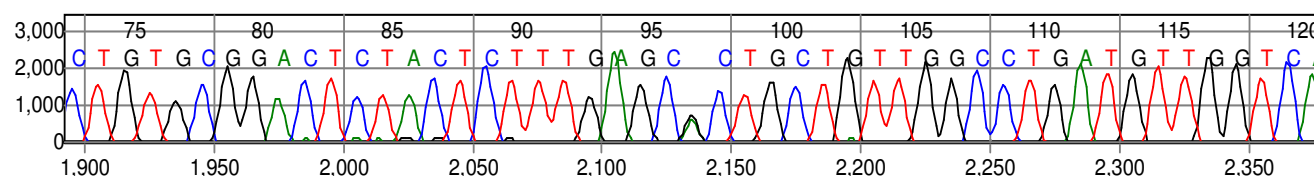
1S--> NOD2_4cF_SOAP0517_H03.ab1 Mutations: 17364A>AG\$37.3



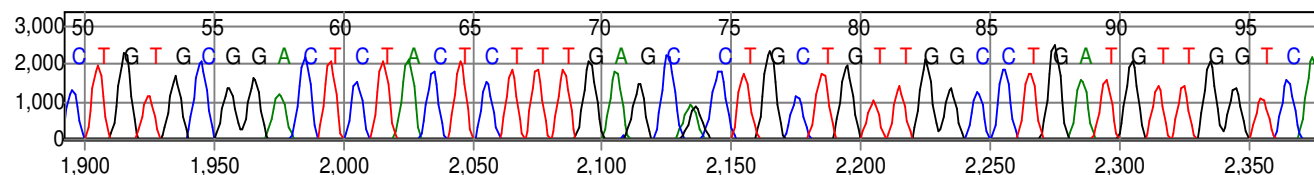
1S<-- NOD2_4cR_SOAP0517_H04.ab1 Mutations: 17364A>AG\$33.7



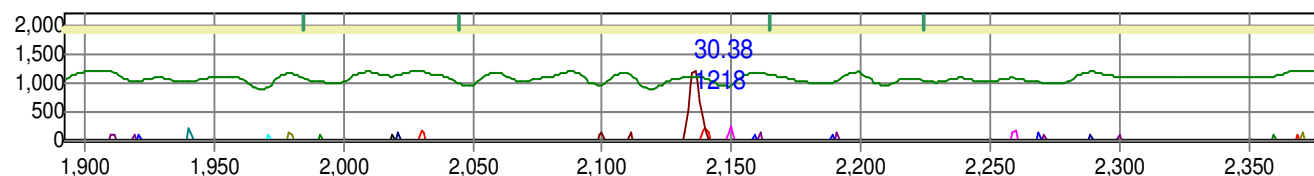
1S<-- NOD2_4cR_SOAP0517_H04.ab1<--



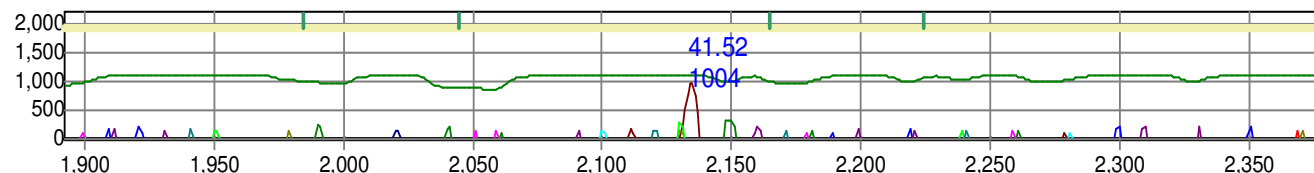
1S--> NOD2_4cF_SOPR0440_H07.ab1-->



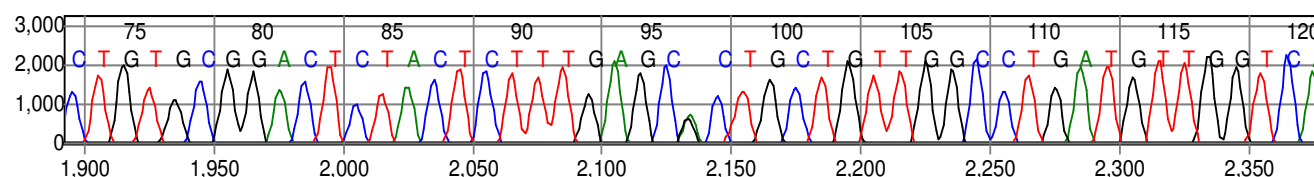
1S--> NOD2_4cF_SOPR0440_H07.ab1 Mutations: 17364A>AG\$30.4



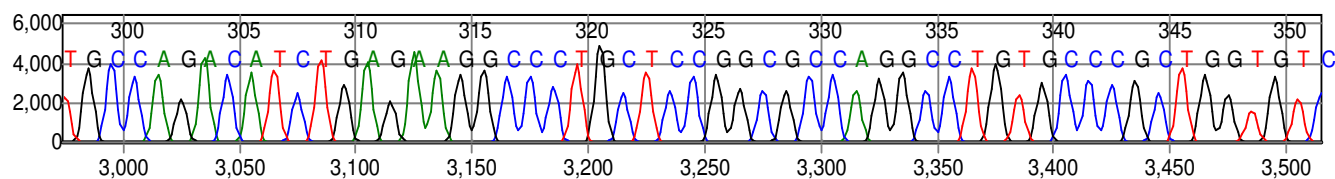
1S<-- NOD2_4cR_SOPR0440_H08.ab1 Mutations: 17364A>AG\$41.5



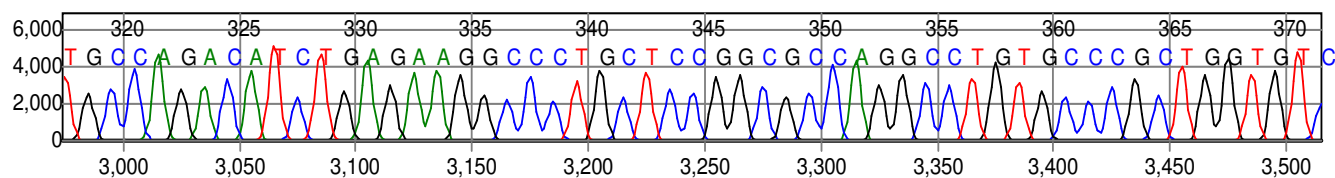
1S<-- NOD2_4cR_SOPR0440_H08.ab1<--



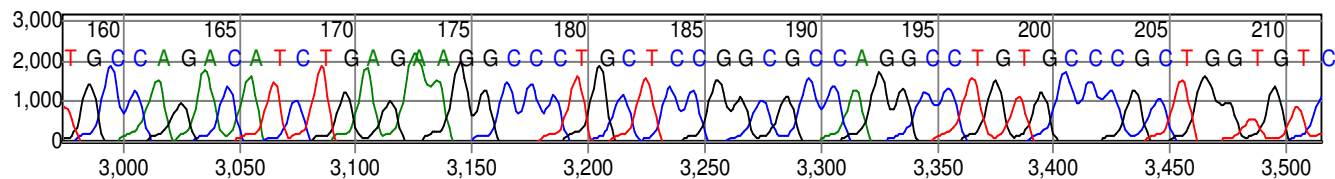
1R--> NOD2_F_Synthesis_18428.scf-->



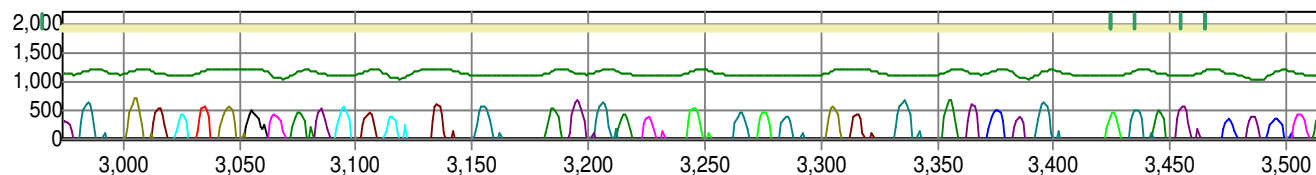
1R<-- NOD2_R_Synthesis_18427.scf<--



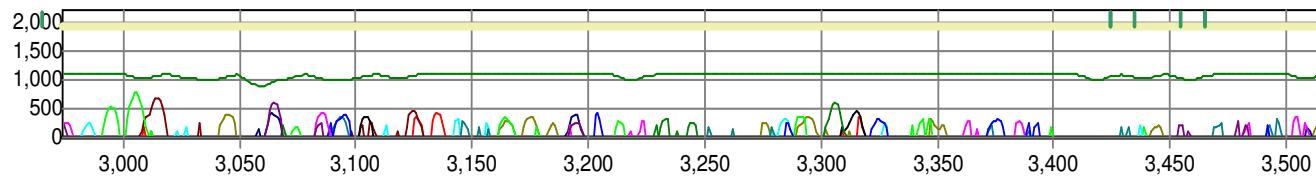
1S--> NOD2_4gF_AP0047_A01.ab1-->



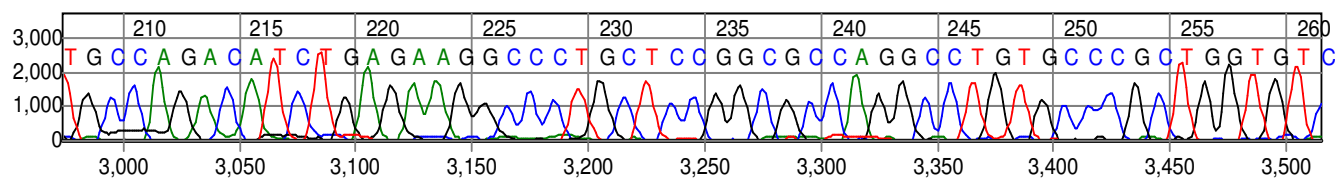
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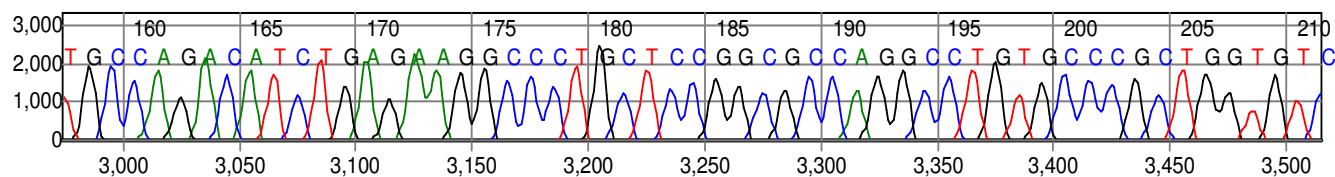
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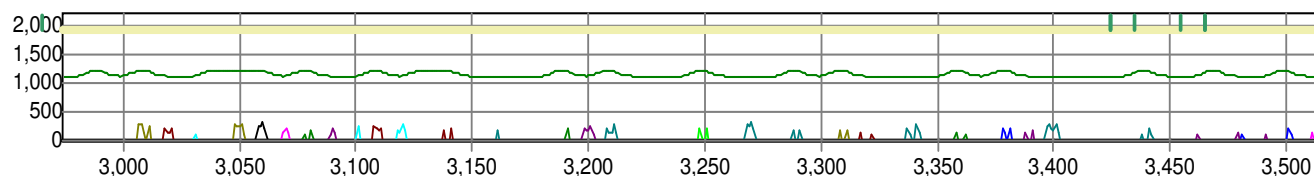
1S<-- NOD2_4gR_AP0047_A02.ab1<--



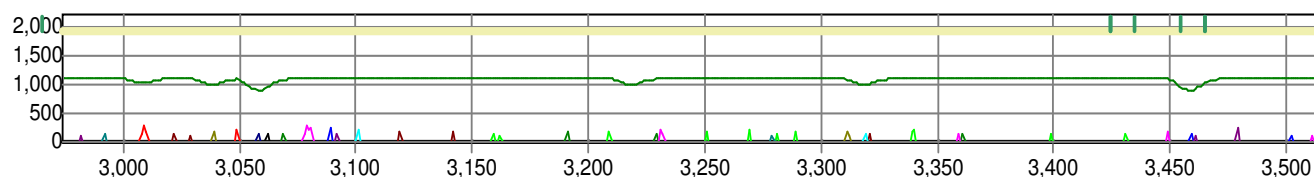
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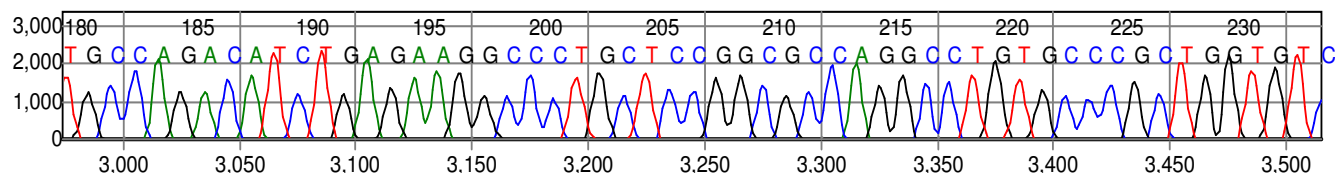
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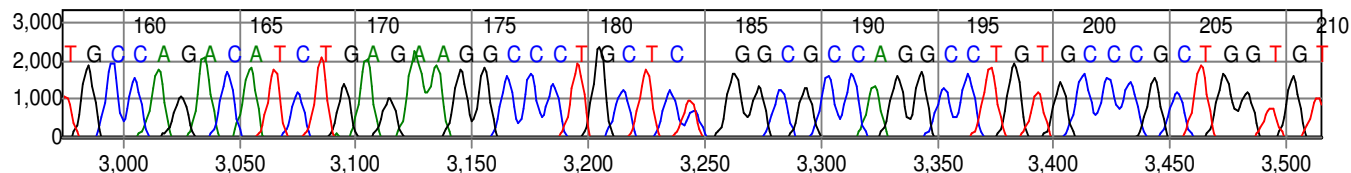
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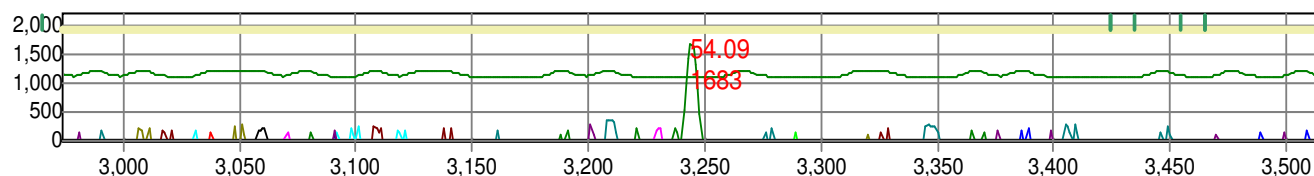
1S<-- NOD2_4gR_AP0276_F02.ab1<--



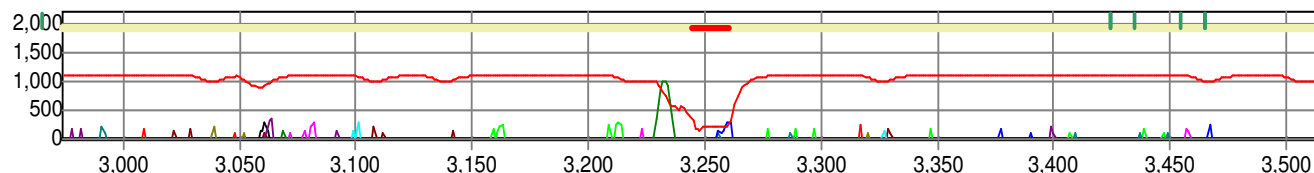
1S--> NOD2_4gF_SOAP0337_G01.ab1-->



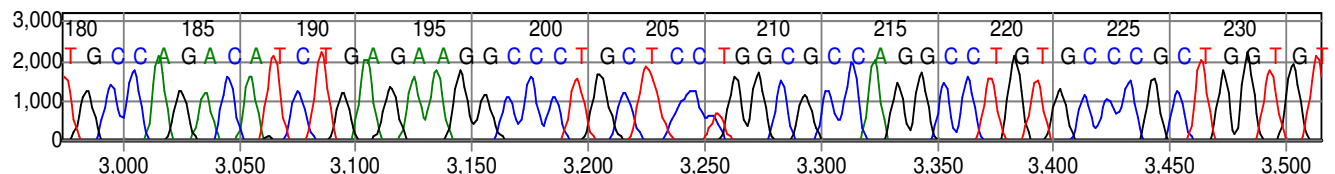
1S--> NOD2_4gF_SOAP0337_G01.ab1 Mutations: 18413C>T\$54.1



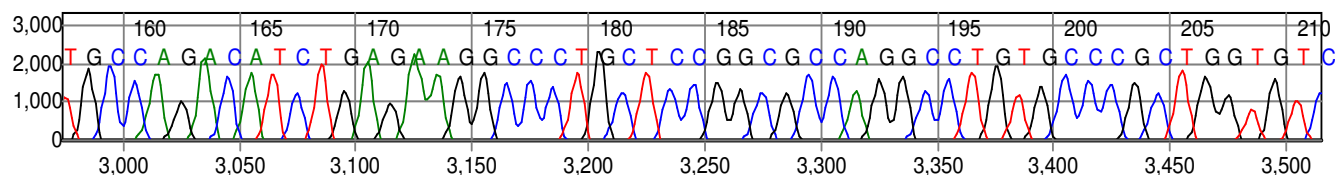
1S<-- NOD2_4gR_SOAP0337_G02.ab1 Mutations: 18413_18414ins



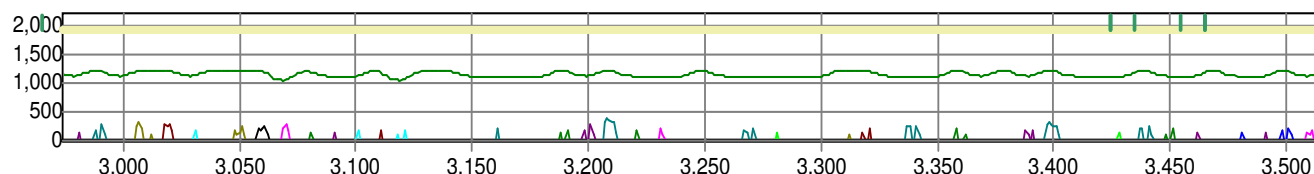
1S<-- NOD2_4gR_SOAP0337_G02.ab1<--



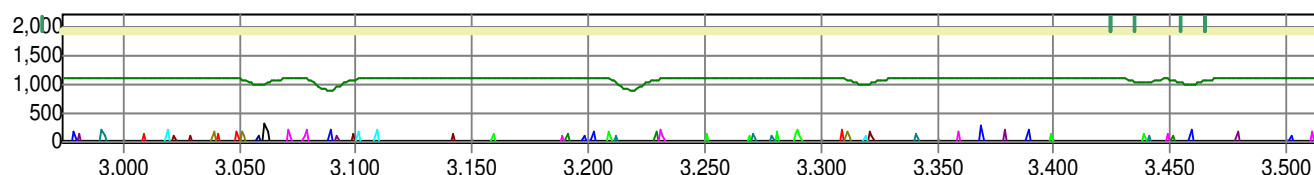
1S--> NOD2_4gF_SOAP0379_E03.ab1-->



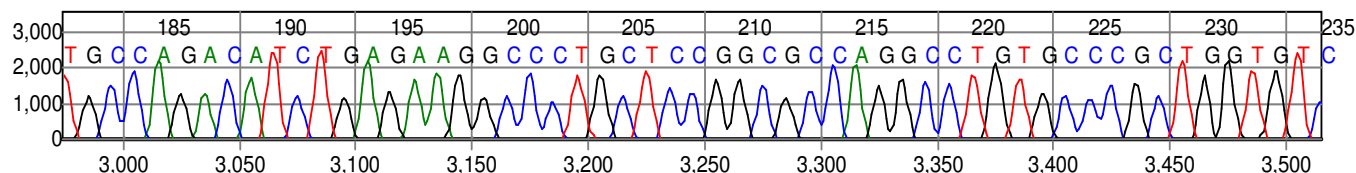
1S--> NOD2_4gF_SOAP0379_E03.ab1



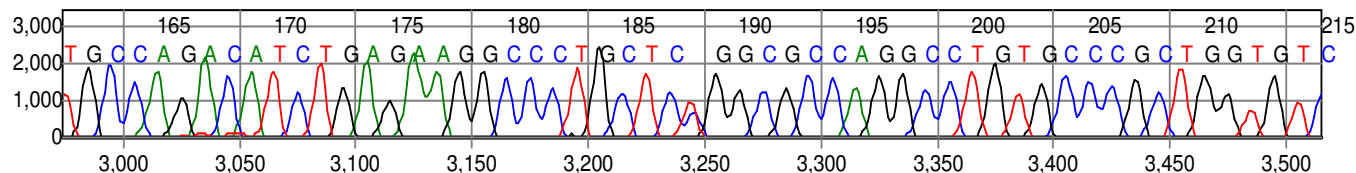
1S<-- NOD2_4gR_SOAP0379_E04.ab1



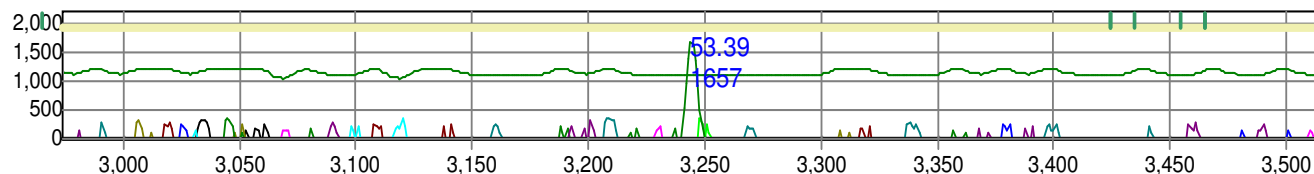
1S<-- NOD2_4gR_SOAP0379_E04.ab1<--



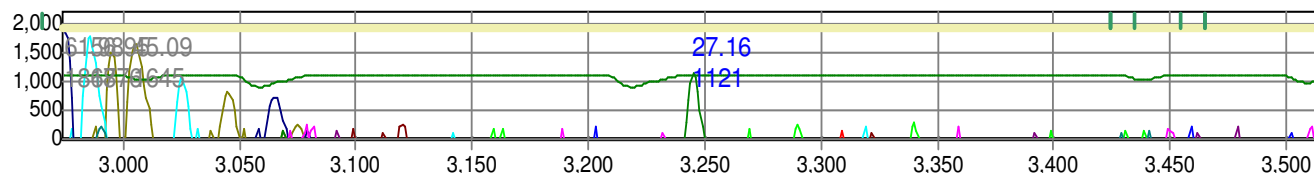
1S--> NOD2_4gF_SOAP0493_A05.ab1-->



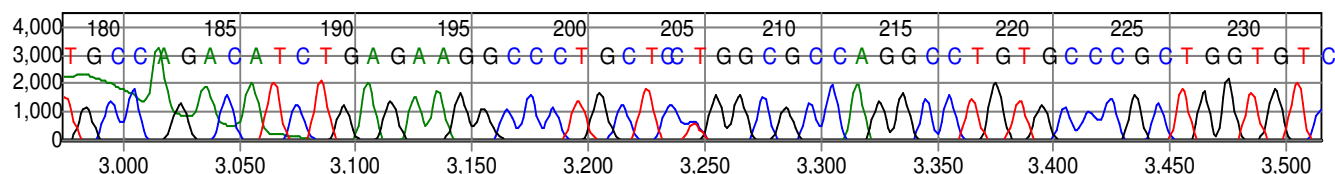
1S--> NOD2_4gF_SOAP0493_A05.ab1 Mutations: 18413C>CT\$53.4



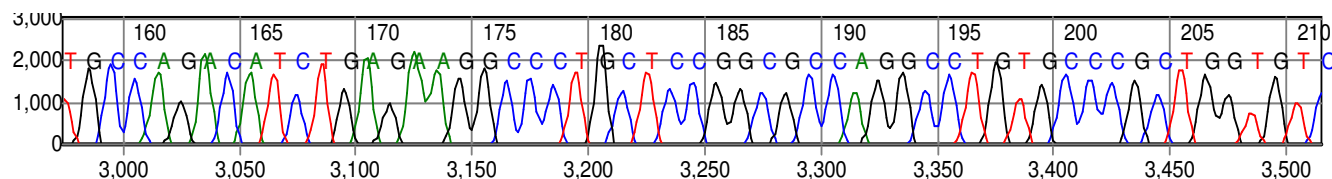
1S<-- NOD2_4gR_SOAP0493_A06.ab1 Mutations: 18413C>CT\$27.2



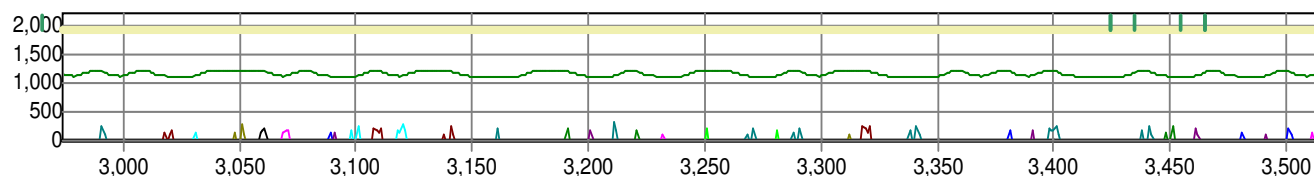
1S<-- NOD2_4gR_SOAP0493_A06.ab1<--



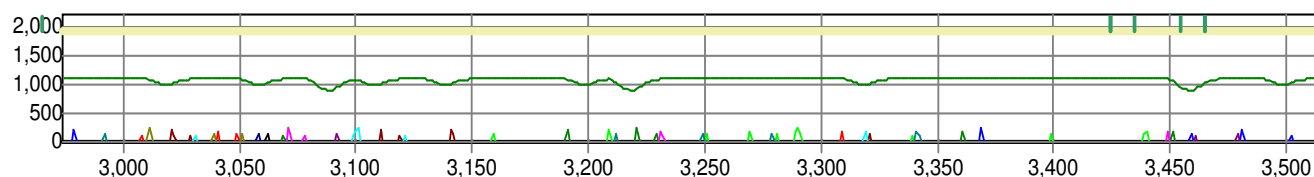
1S--> NOD2_4gF_SOAP0494_G05.ab1-->



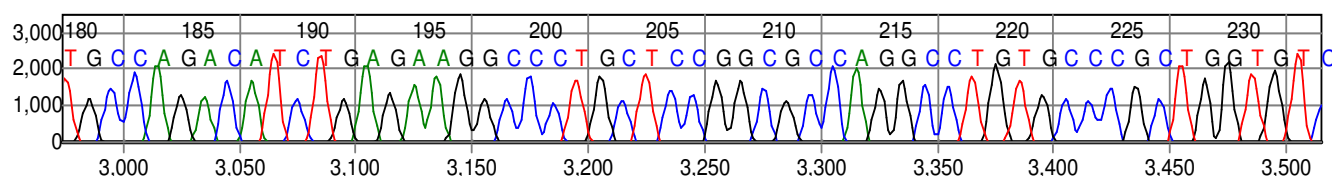
1S--> NOD2_4gF_SOAP0494_G05.ab1



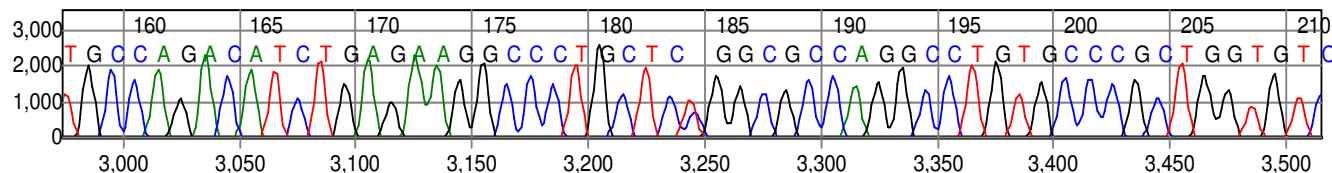
1S<-- NOD2_4gR_SOAP0494_G06.ab1



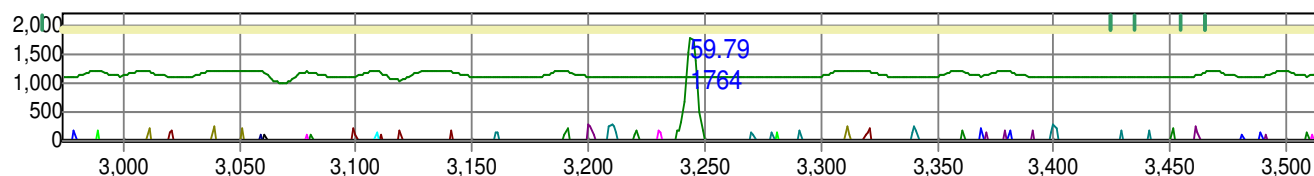
1S<-- NOD2_4gR_SOAP0494_G06.ab1<--



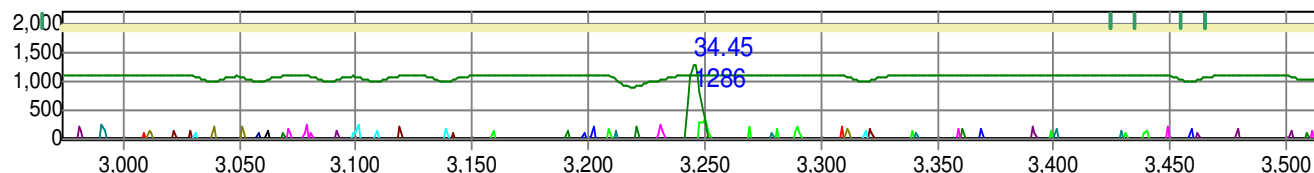
1S--> NOD2_4gF_SOAP0516_E05.ab1-->



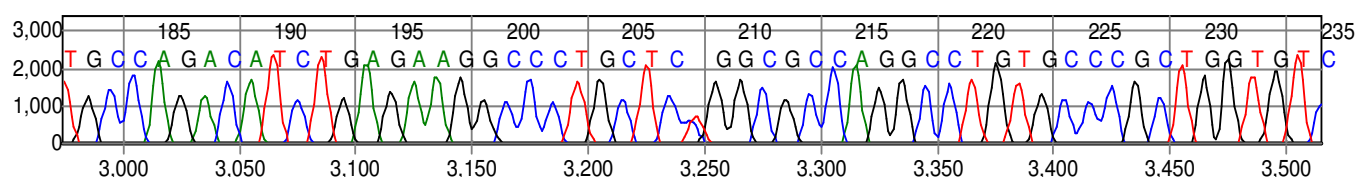
1S--> NOD2_4gF_SOAP0516_E05.ab1 Mutations: 18413C>CT\$59.8



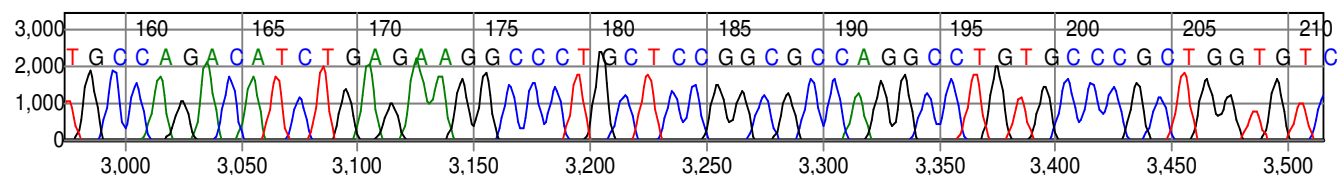
1S<-- NOD2_4gR_SOAP0516_E06.ab1 Mutations: 18413C>CT\$34.4



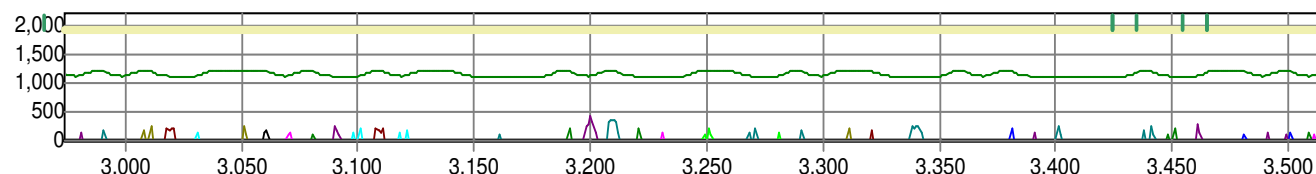
1S<-- NOD2_4gR_SOAP0516_E06.ab1<--



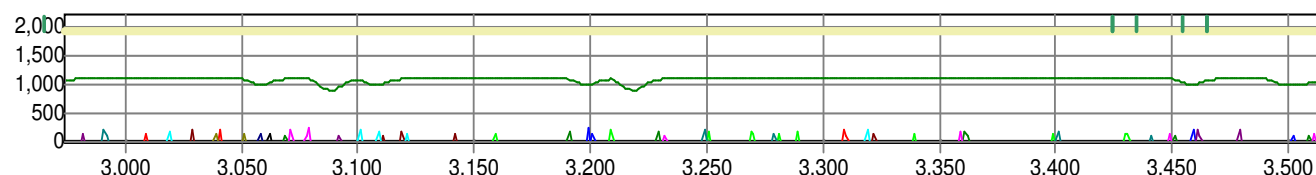
1S--> NOD2_4gF_SOAP0517_F05.ab1-->



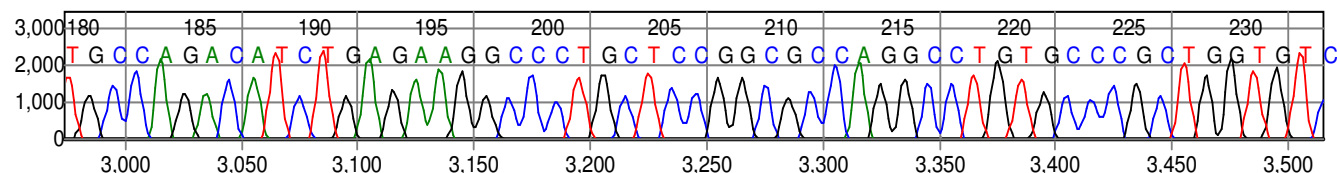
1S--> NOD2_4gF_SOAP0517_F05.ab1



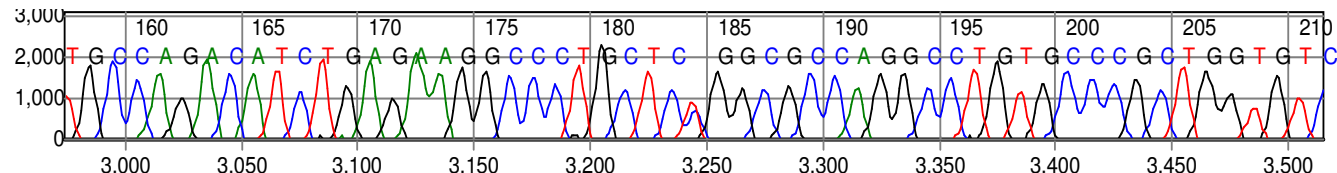
1S<-- NOD2_4gR_SOAP0517_F06.ab1



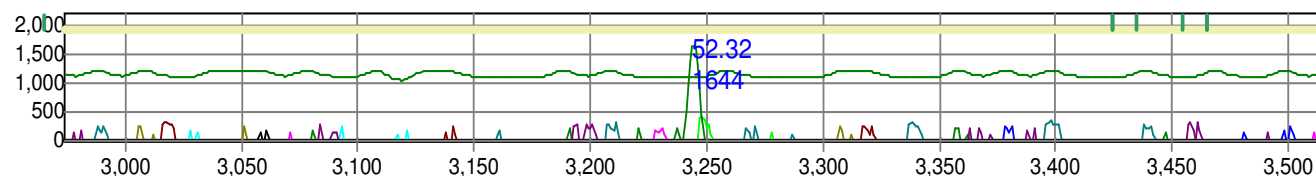
1S<-- NOD2_4gR_SOAP0517_F06.ab1<--



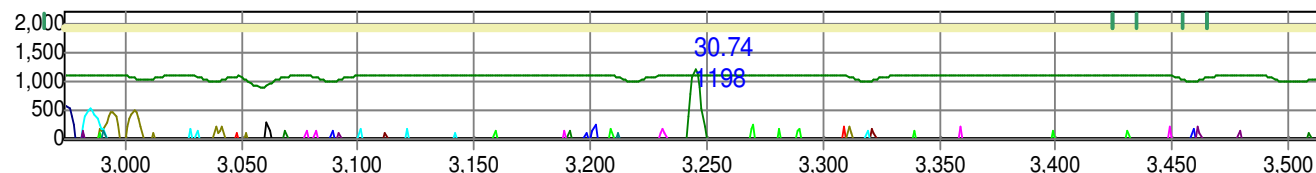
1S--> NOD2_4gF_SONP0094_C03.ab1-->



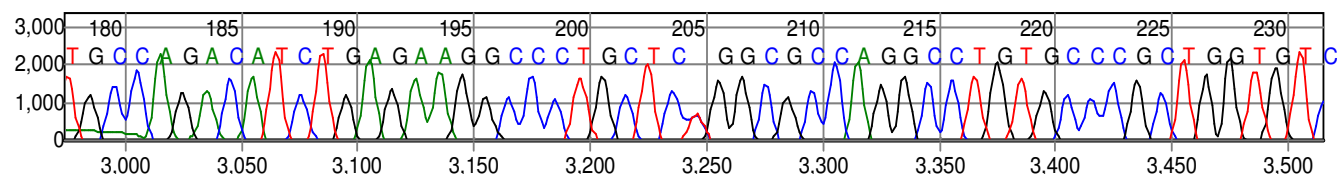
1S--> NOD2_4gF_SONP0094_C03.ab1 Mutations: 18413C>CT\$52.3



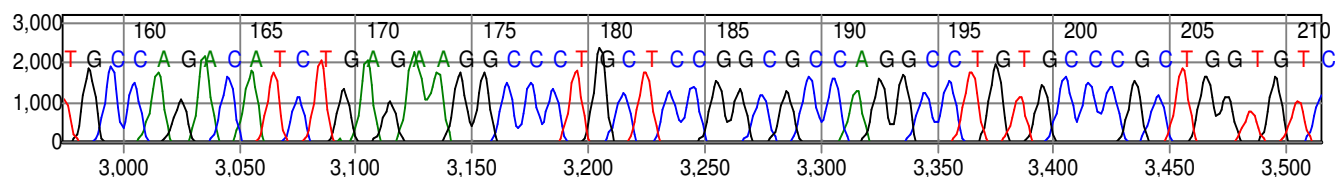
1S<-- NOD2_4gR_SONP0094_C04.ab1 Mutations: 18413C>CT\$30.7



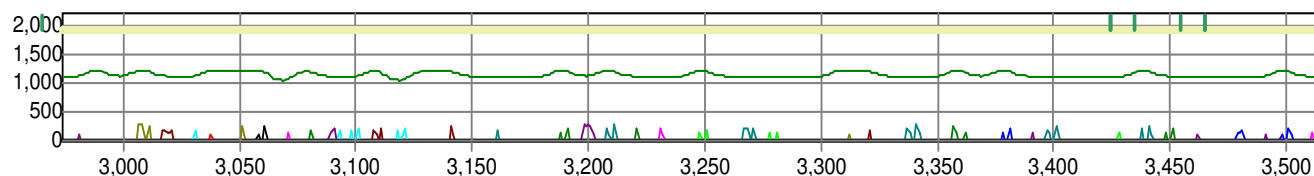
1S<-- NOD2_4gR_SONP0094_C04.ab1<--



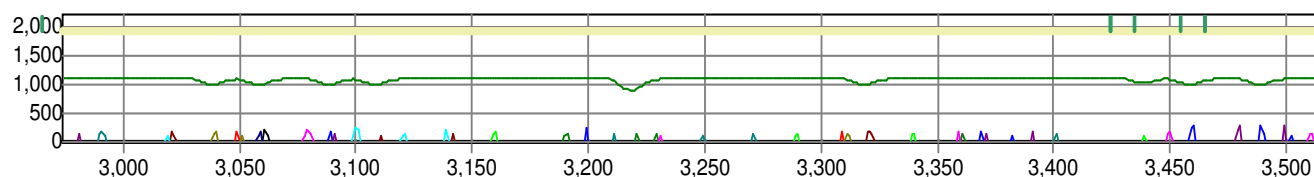
1S--> NOD2_4gF_SONP0095_D03.ab1-->



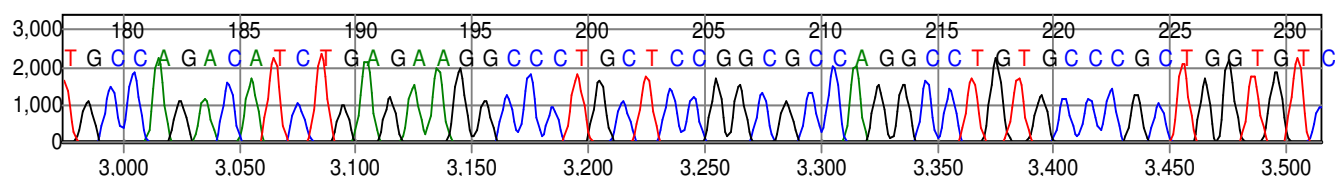
1S--> NOD2_4gF_SONP0095_D03.ab1



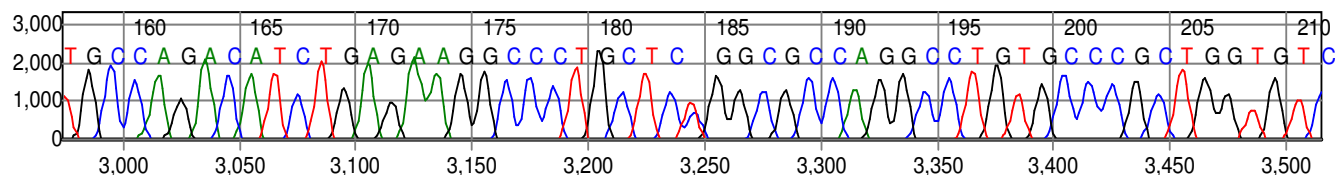
1S<-- NOD2_4gR_SONP0095_D04.ab1



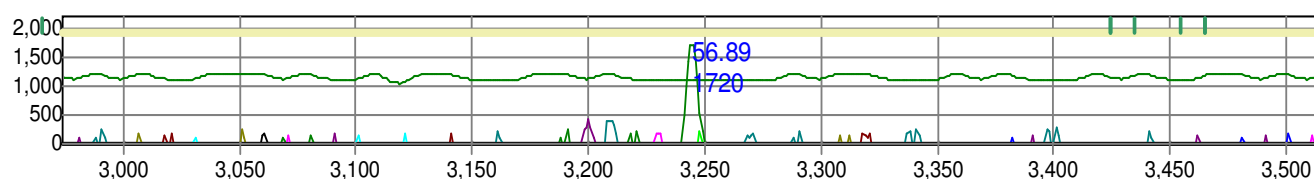
1S<-- NOD2_4gR_SONP0095_D04.ab1<--



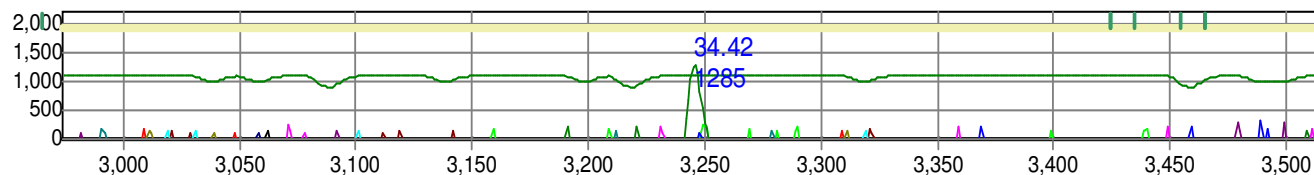
1S--> NOD2_4gF_SONP0116_F03.ab1-->



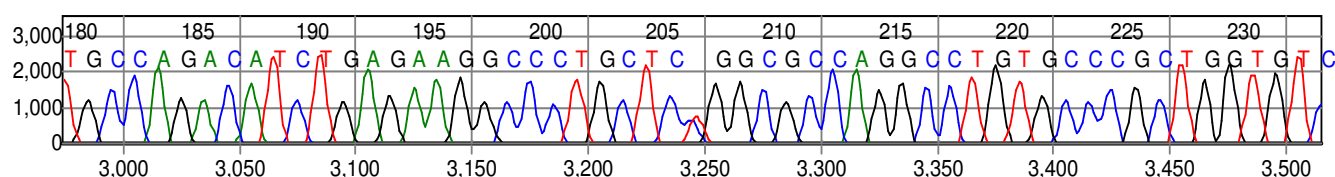
1S--> NOD2_4gF_SONP0116_F03.ab1 Mutations: 18413C>CT\$56.9



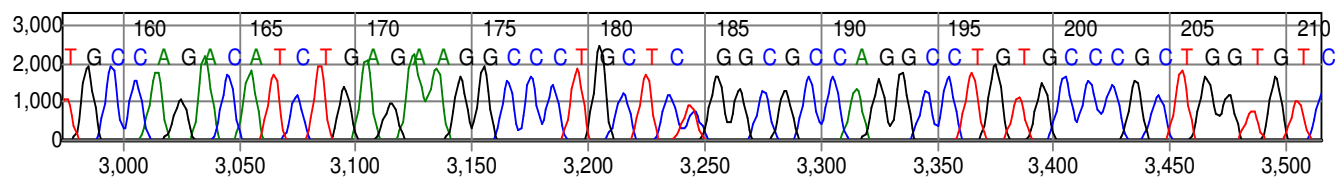
1S<-- NOD2_4gR_SONP0116_F04.ab1 Mutations: 18413C>CT\$34.4



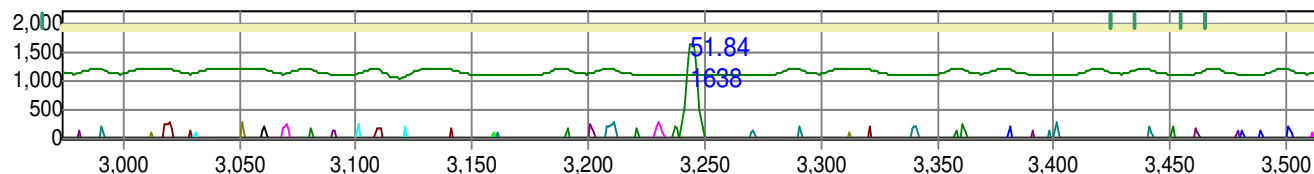
1S<-- NOD2_4gR_SONP0116_F04.ab1<--



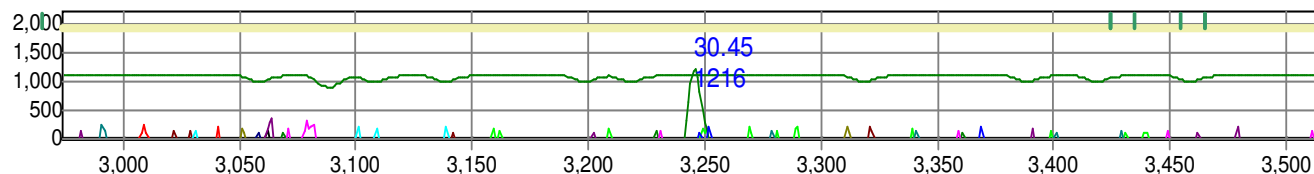
1S--> NOD2_4gF_SONP0144_G03.ab1-->



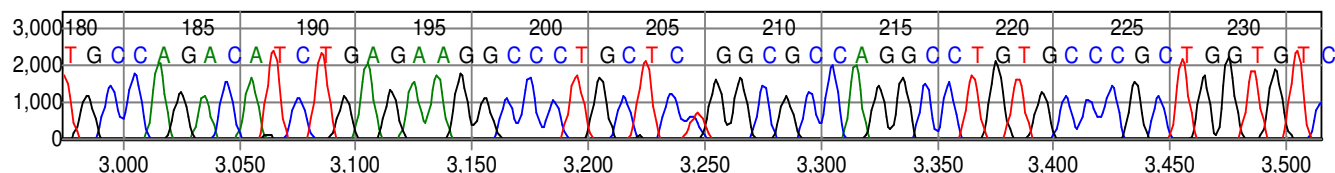
1S--> NOD2_4gF_SONP0144_G03.ab1 Mutations: 18413C>T\$51.8



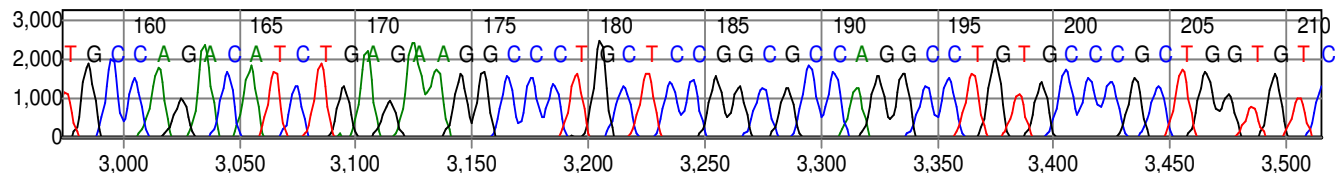
1S<-- NOD2_4gR_SONP0144_G04.ab1 Mutations: 18413C>T\$30.4



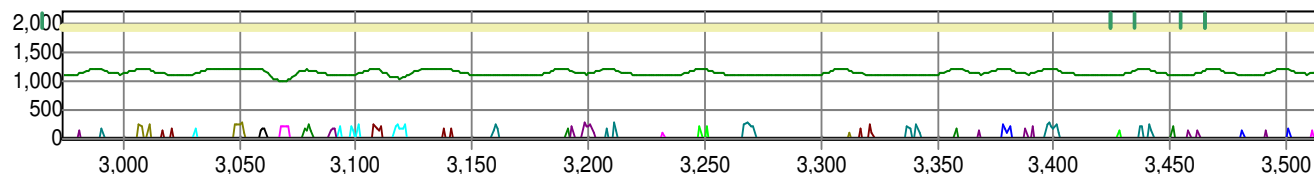
1S<-- NOD2_4gR_SONP0144_G04.ab1<--



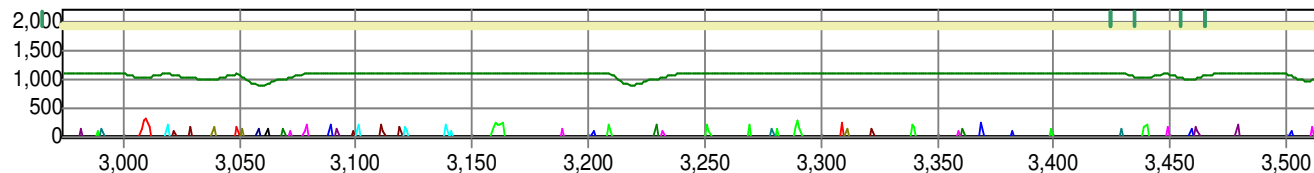
1S--> NOD2_4gF_SONP0145_B05.ab1-->



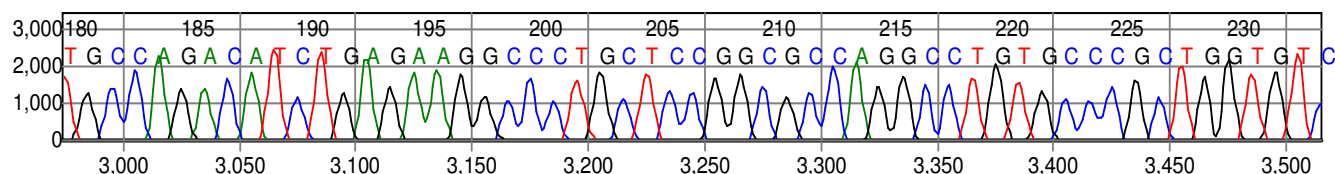
1S--> NOD2_4gF_SONP0145_B05.ab1



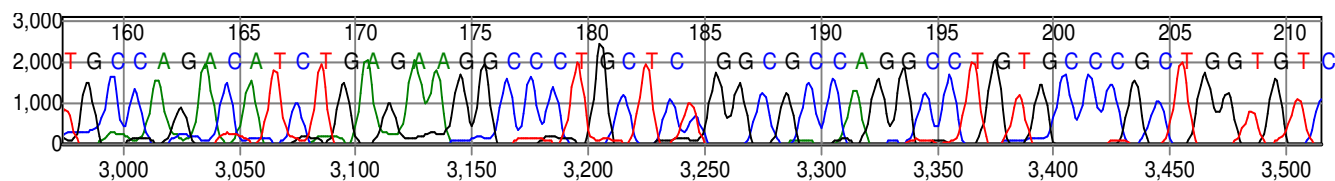
1S<-- NOD2_4gR_SONP0145_B06.ab1



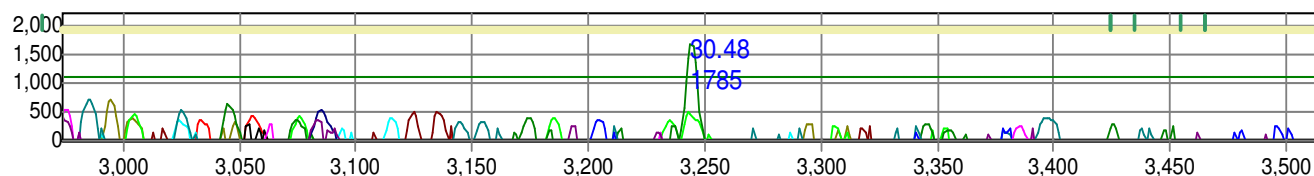
1S<-- NOD2_4gR_SONP0145_B06.ab1<--



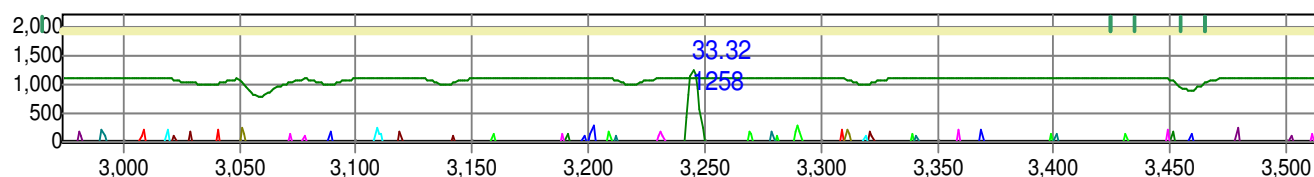
1S--> NOD2_4gF_SOPR0410_H03.ab1-->



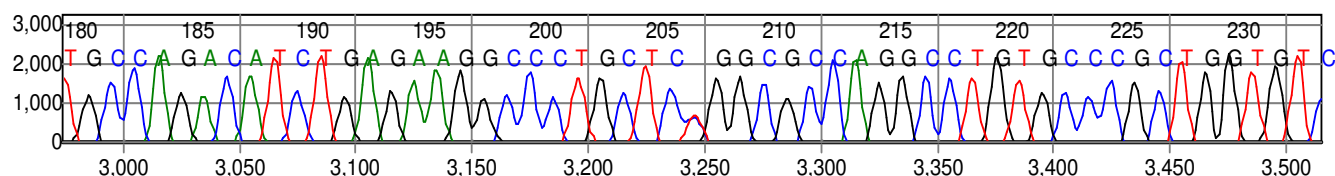
1S--> NOD2_4gF_SOPR0410_H03.ab1 Mutations: 18413C>CT\$30.5



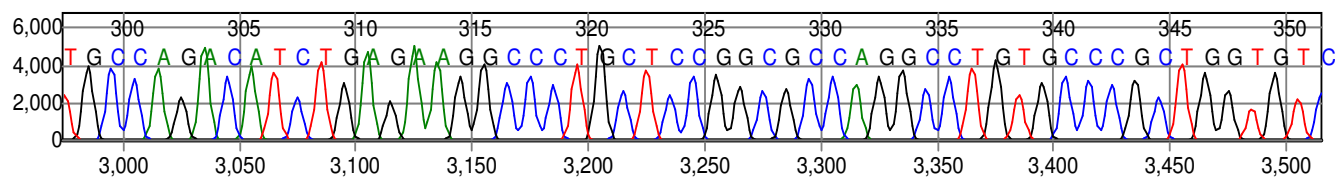
1S<-- NOD2_4gR_SOPR0410_H04.ab1 Mutations: 18413C>CT\$33.3



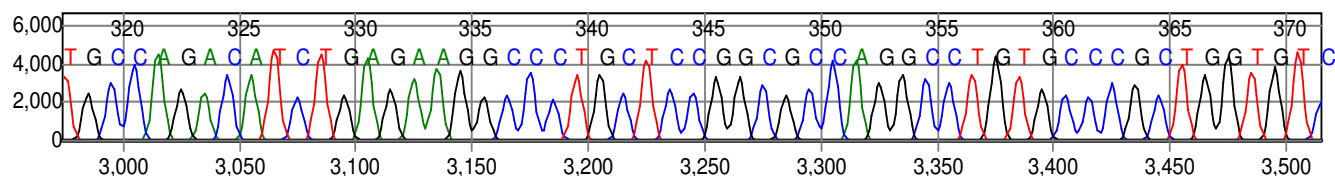
1S<-- NOD2_4gR_SOPR0410_H04.ab1<--



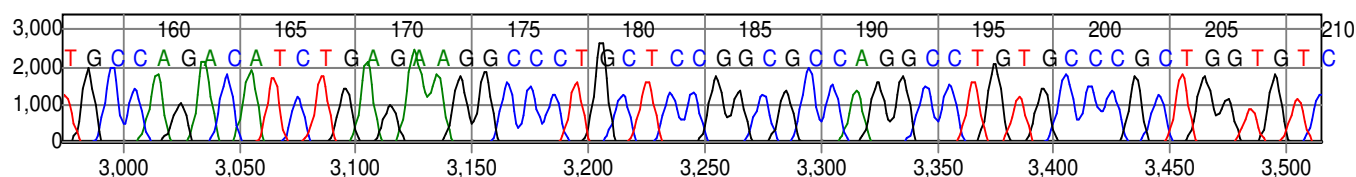
1R--> NOD2_F_Synthesis_18424.scf-->



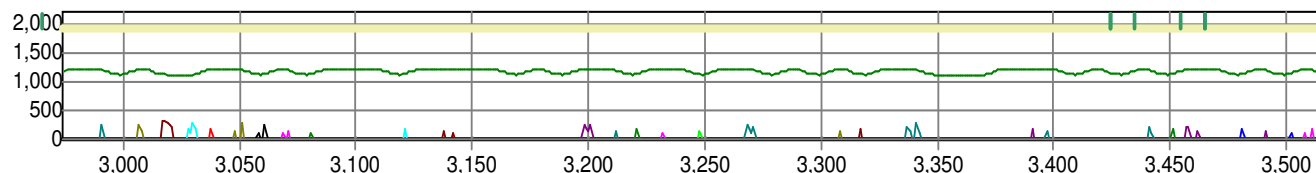
1R<-- NOD2_R_Synthesis_18424.scf<--



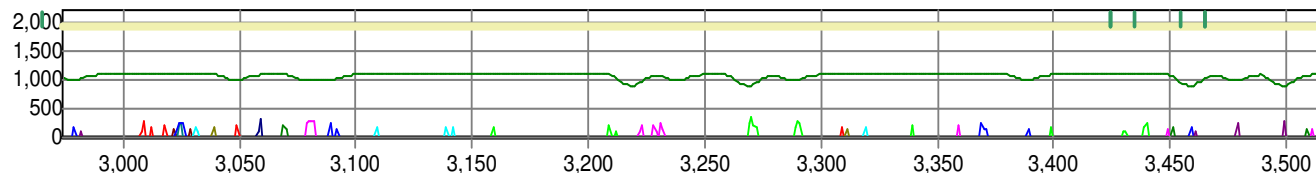
1S--> NOD2_4gF_Normal_A01.ab1-->



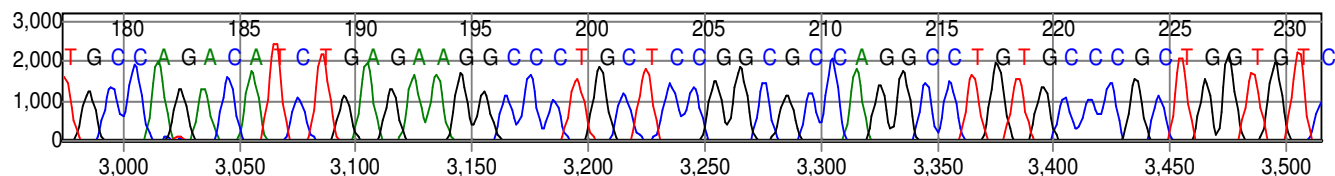
1S--> NOD2_4gF_Normal_A01.ab1



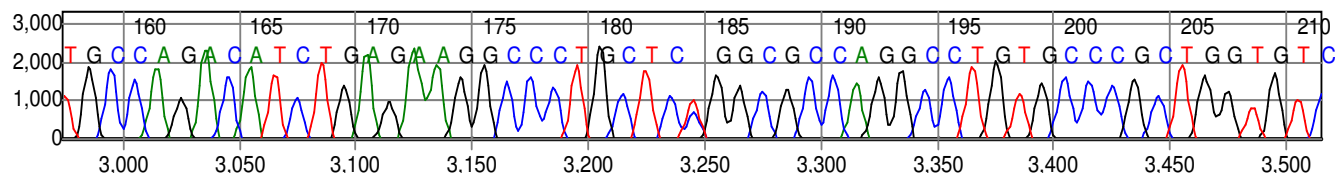
1S<-- NOD2_4gR_Normal_A02.ab1



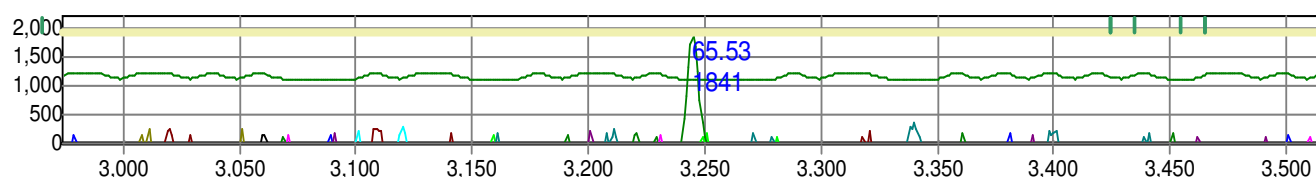
1S<-- NOD2_4gR_Normal_A02.ab1<--



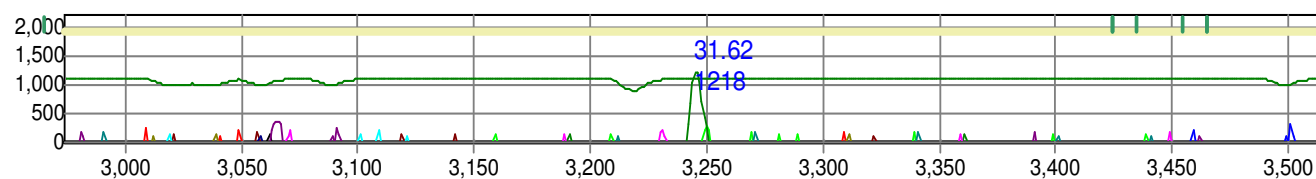
1S--> NOD2_4gF_PR0112_E09.ab1-->



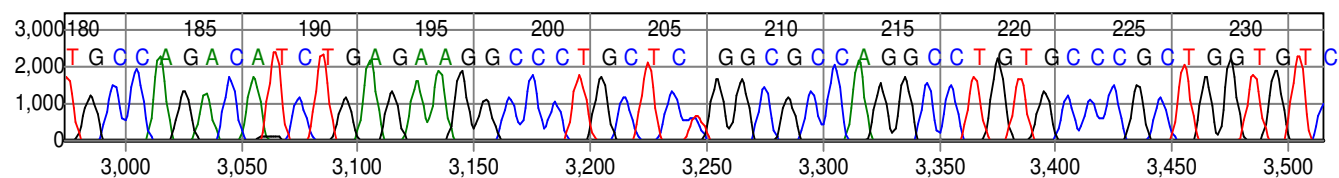
1S--> NOD2_4gF_PR0112_E09.ab1 Mutations: 18413C>CT\$65.5



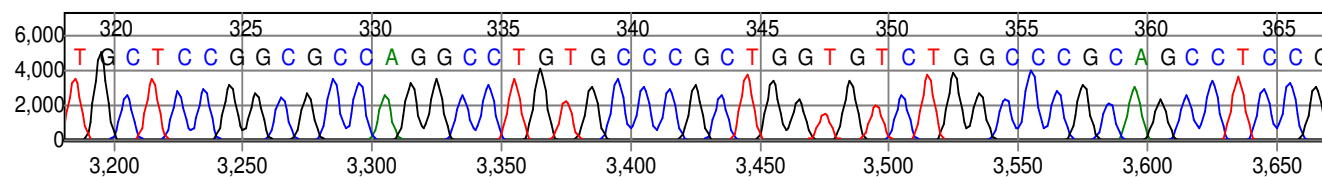
1S<-- NOD2_4gR_PR0112_E10.ab1 Mutations: 18413C>CT\$31.6



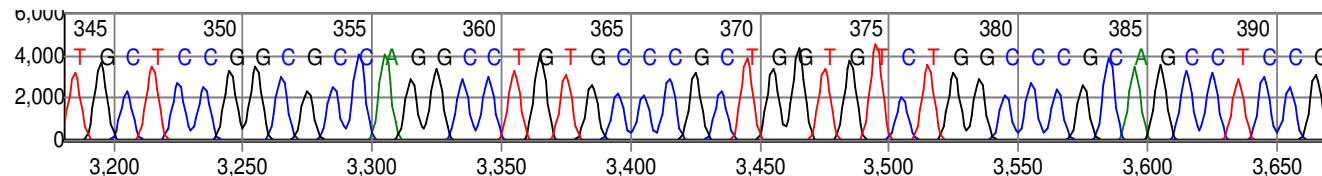
1S<-- NOD2_4gR_PR0112_E10.ab1<--



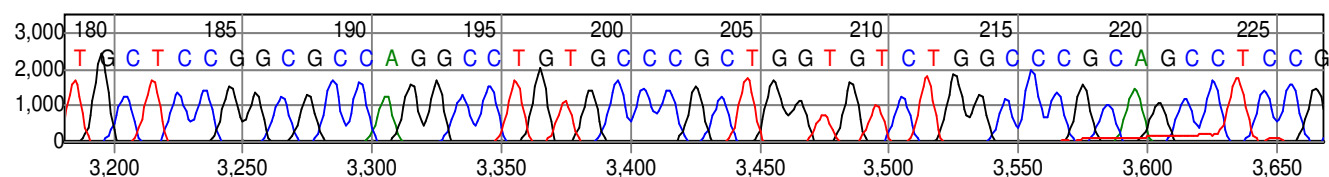
1R--> NOD2_F_Synthesis_18427.scf-->



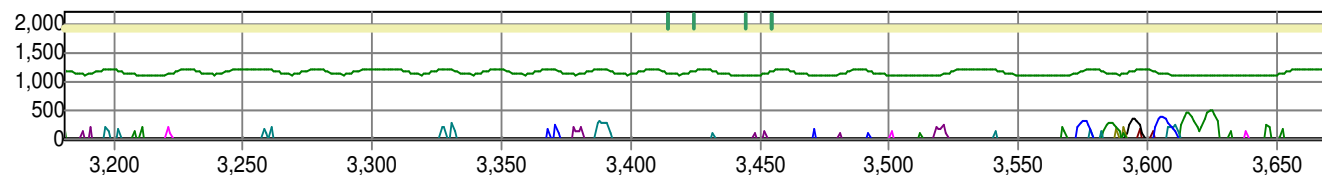
1R<-- NOD2_R_Synthesis_18427.scf<--



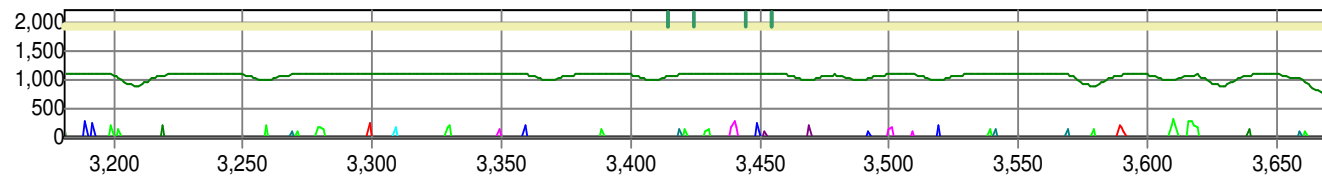
1S--> NOD2_4gF_SOAP0419_C05.ab1-->



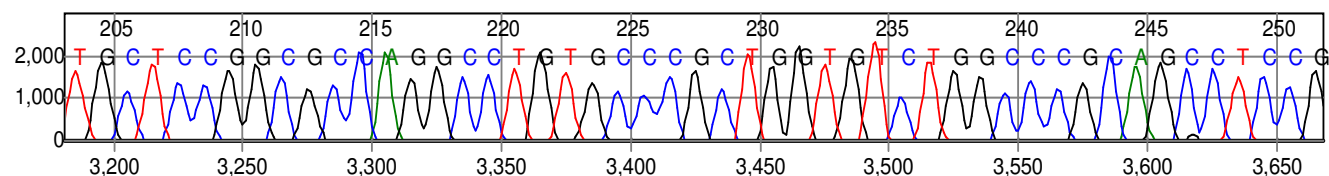
1S--> NOD2_4gF_SOAP0419_C05.ab1



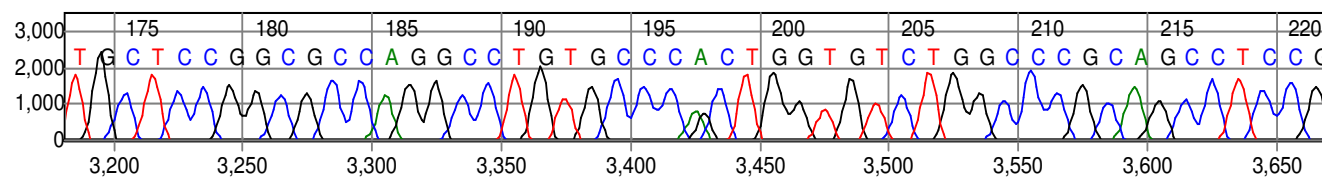
1S<-- NOD2_4gR_SOAP0419_C06.ab1



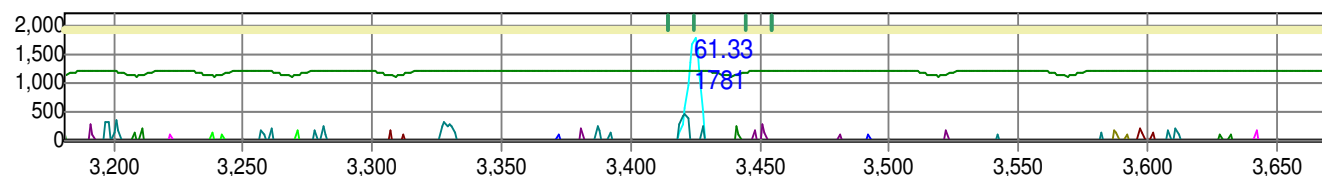
1S<-- NOD2_4gR_SOAP0419_C06.ab1<--



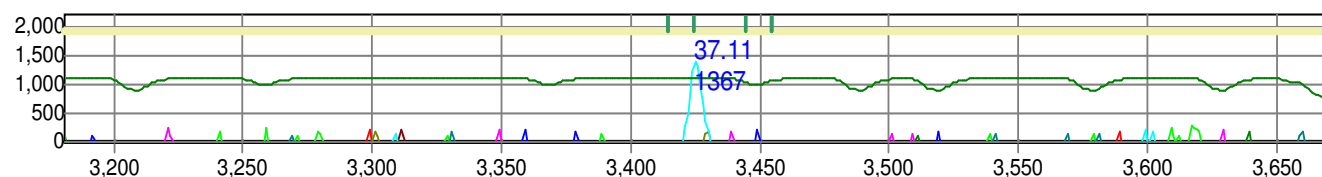
1S--> NOD2_4gF_SOAP0420_D05.ab1-->



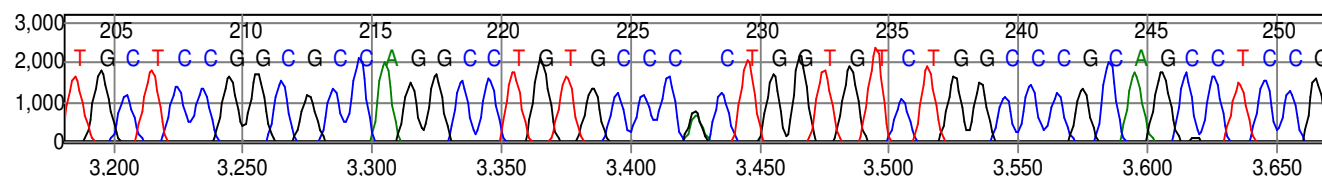
1S--> NOD2_4gF_SOAP0420_D05.ab1 Mutations: 18432G>GA\$61.3



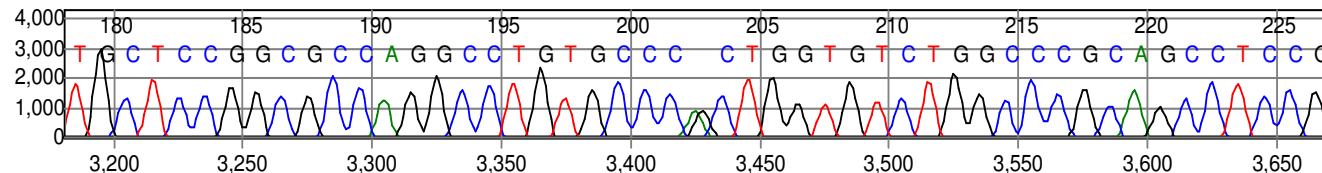
1S<-- NOD2_4gR_SOAP0420_D06.ab1 Mutations: 18432G>GA\$37.1



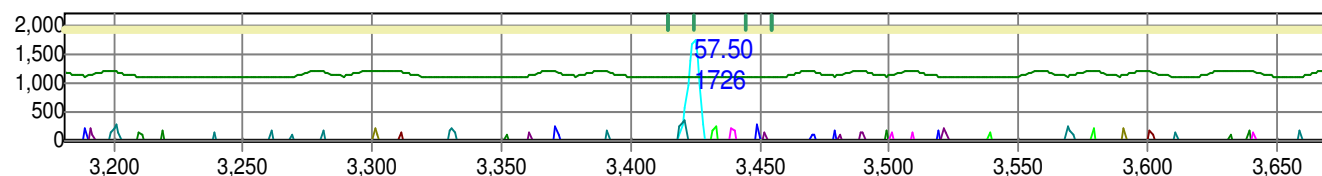
1S<-- NOD2_4gR_SOAP0420_D06.ab1<--



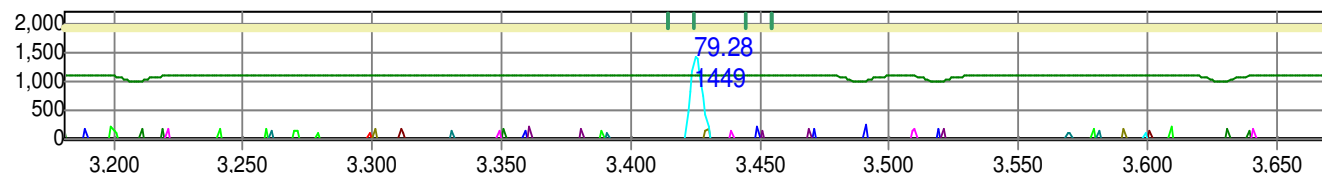
1S--> NOD2_4gF_SOPR0339_F05.ab1-->



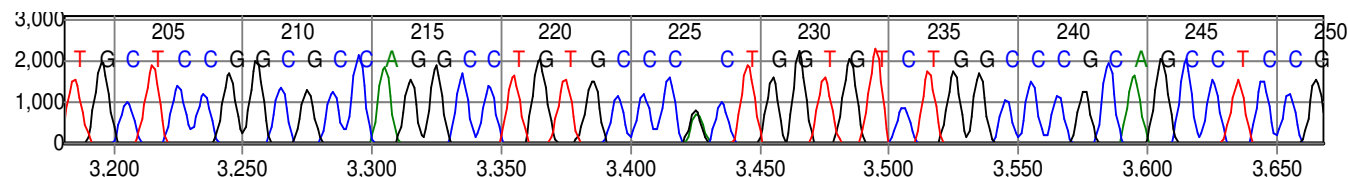
1S--> NOD2_4gF_SOPR0339_F05.ab1 Mutations: 18432G>GA\$57.5



1S<-- NOD2_4gR_SOPR0339_F06.ab1 Mutations: 18432G>GA\$79.3



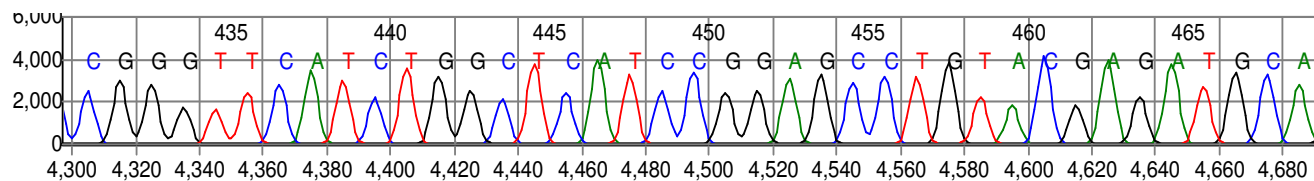
1S<-- NOD2_4gR_SOPR0339_F06.ab1<--



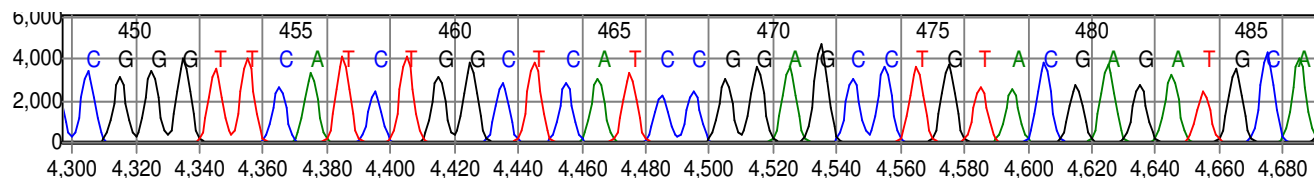
Mutation Surveyor V4.0.9

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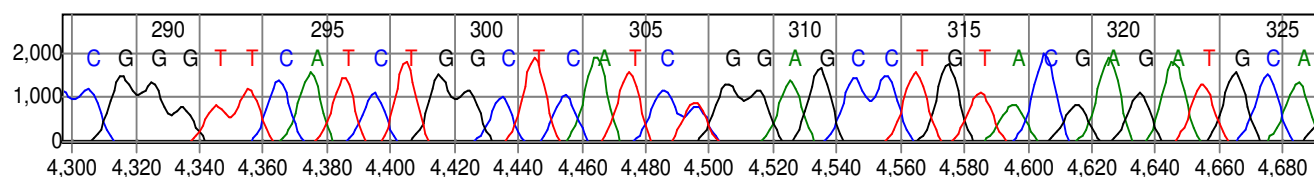
1R--> NOD2_F_Synthesis_18426.scf-->



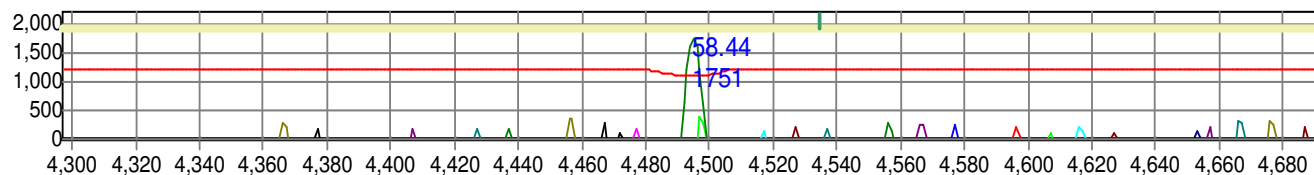
1R<-- NOD2_R_Synthesis_18426.scf<--



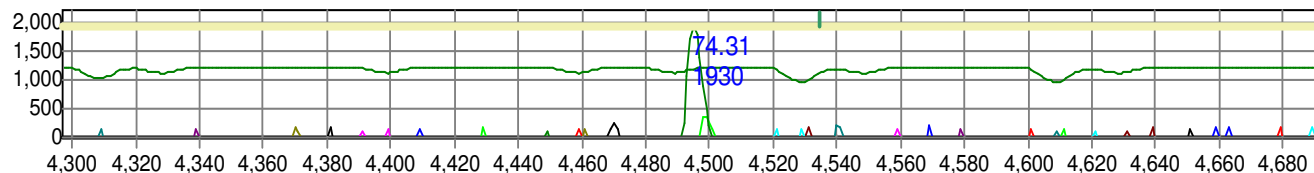
1S--> NOD2_4gF_AP0181_D01.ab1-->



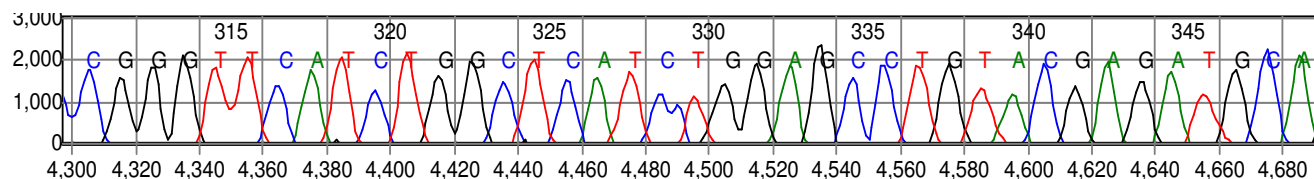
1S--> NOD2_4gF_AP0181_D01.ab1 Mutations: 18539C>CT\$58.4



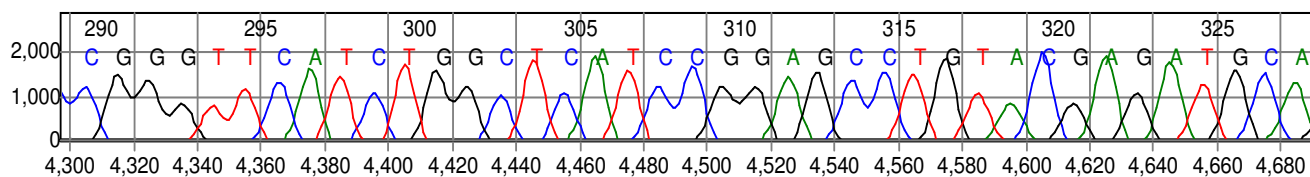
1S<-- NOD2_4gR_AP0181_D02.ab1 Mutations: 18539C>CT\$74.3



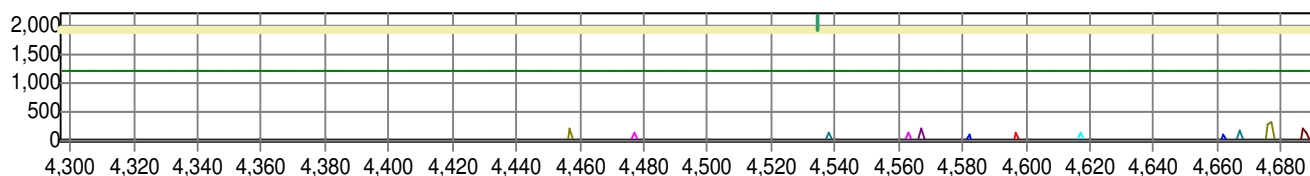
1S<-- NOD2_4gR_AP0181_D02.ab1<--



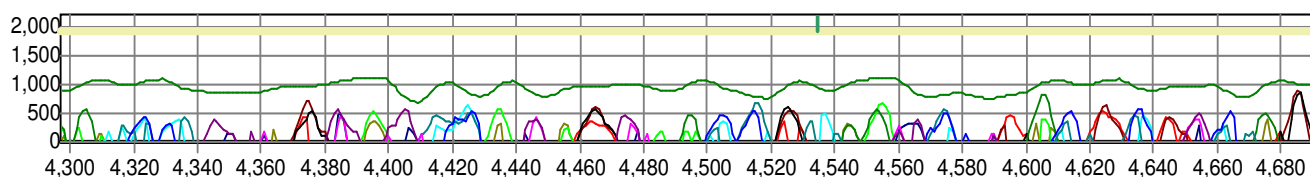
1S--> NOD2_4gF_NP0049_E01.ab1-->



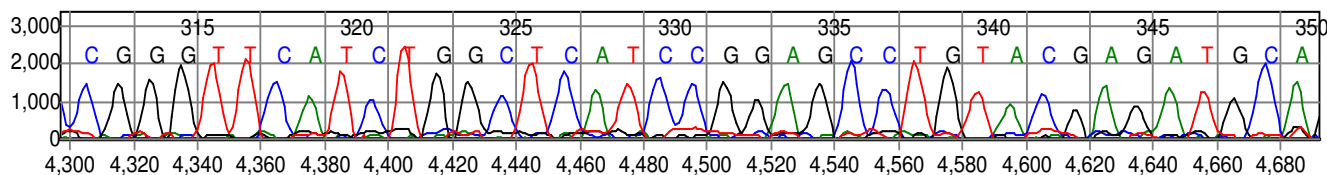
1S--> NOD2_4gF_NP0049_E01.ab1



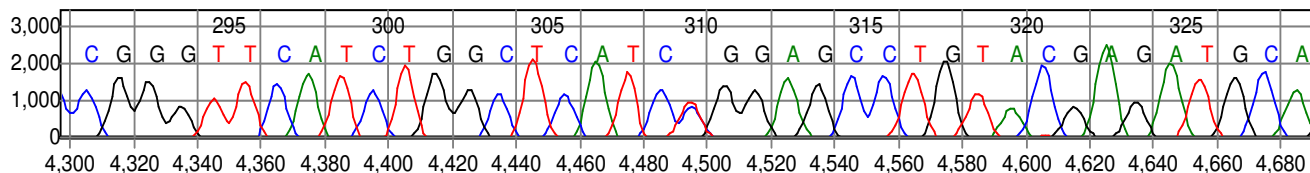
1S<-- NOD2_4gR_NP0049_E02.ab1



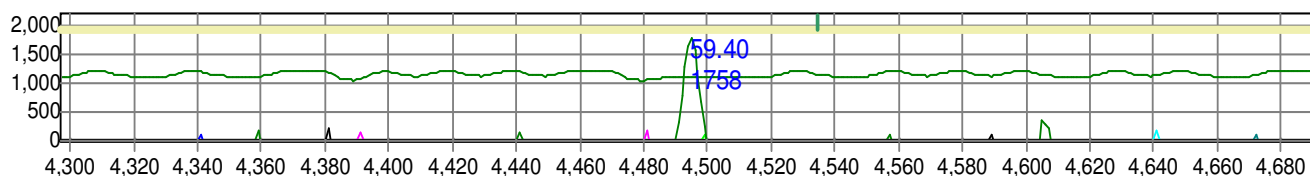
1S<-- NOD2_4gR_NP0049_E02.ab1<--



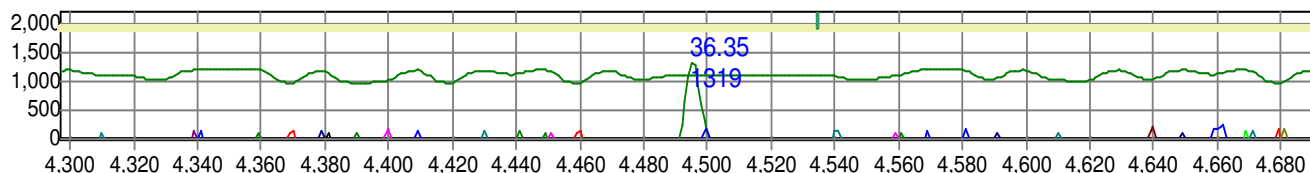
1S--> NOD2_4gF_PR0143_C03.ab1-->



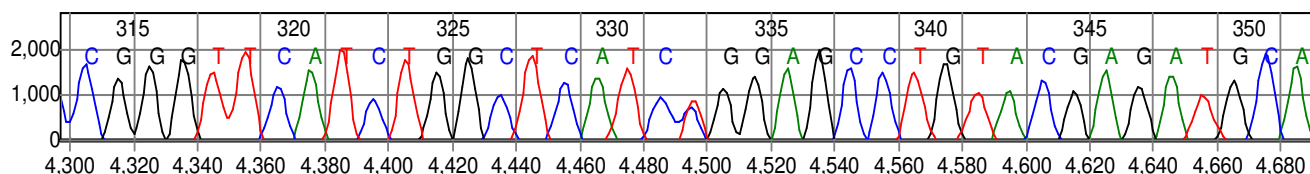
1S--> NOD2_4gF_PR0143_C03.ab1 Mutations: 18539C>CT\$59.4



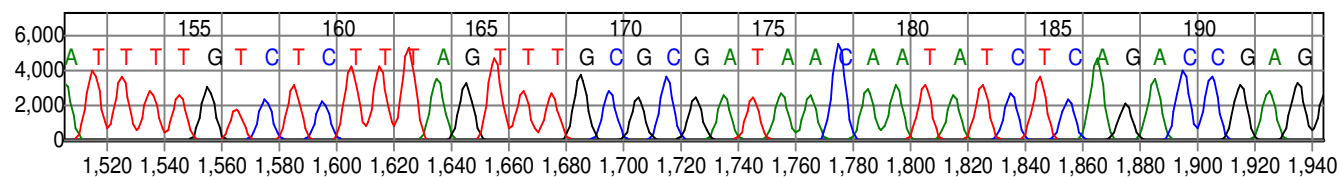
1S<-- NOD2_4gR_PR0143_C04.ab1 Mutations: 18539C>CT\$36.3



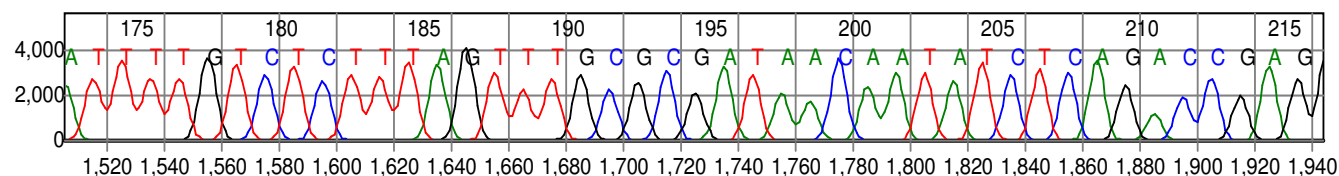
1S<-- NOD2_4gR_PR0143_C04.ab1<--



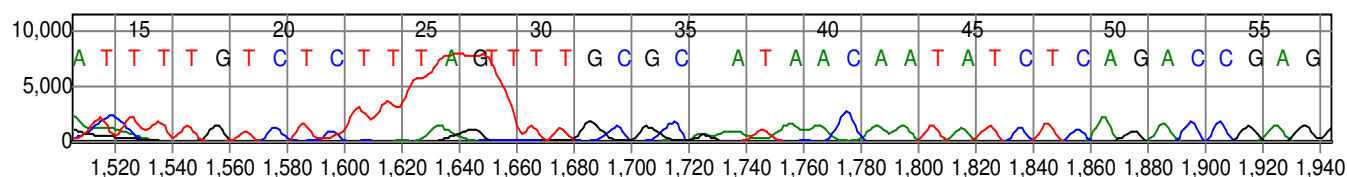
1R--> NOD2_F_Synthesis_23154.scf-->



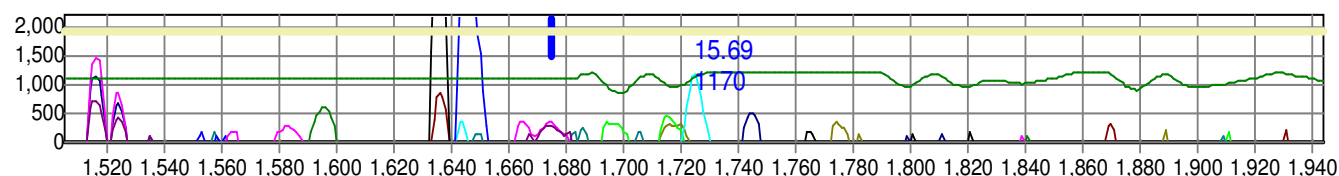
1R<-- NOD2_R_Synthesis_23154.scf<--



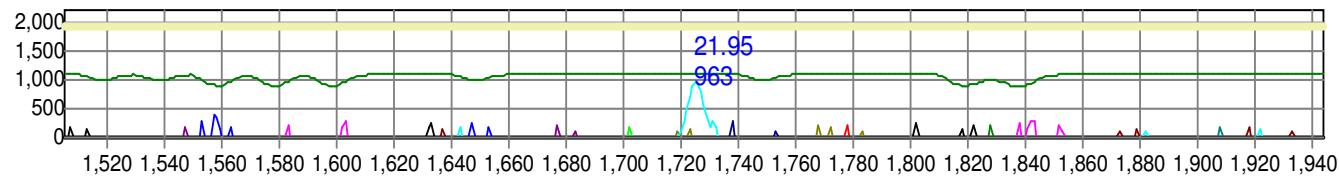
1S--> NOD2_5_6F_AP0182_A10.ab1-->



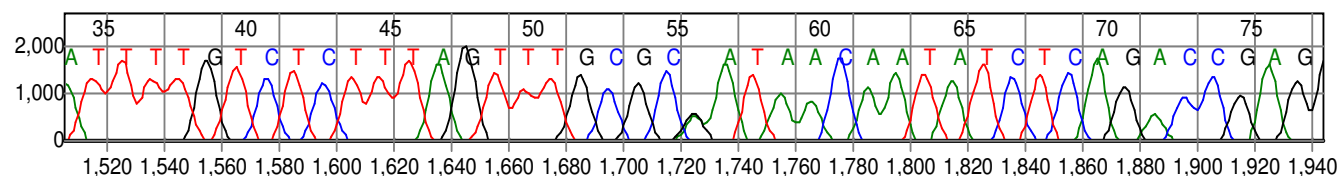
1S--> NOD2_5_6F_AP0182_A10.ab1 Mutations: 22992G>GA\$15.7



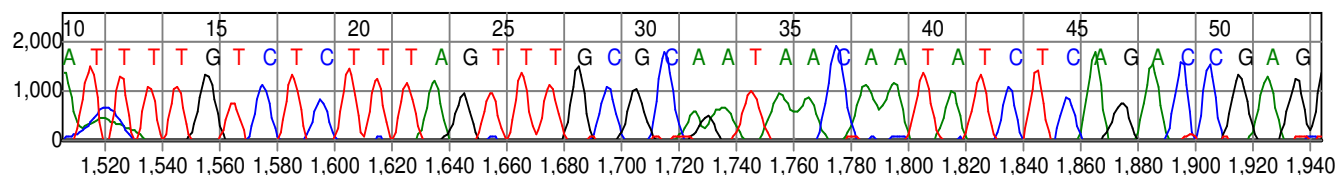
1S<-- NOD2_5_6R_AP0182_A09.ab1 Mutations: 22992G>GA\$22.0



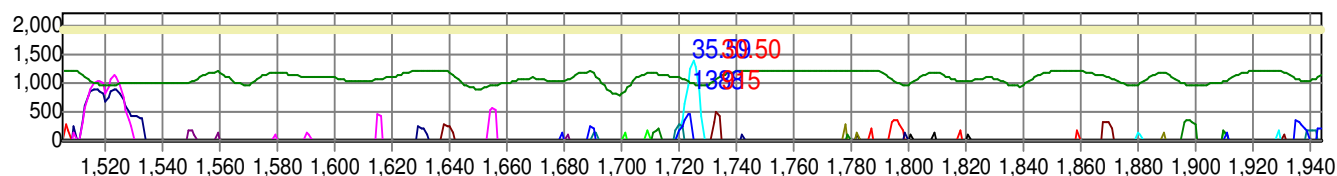
1S<-- NOD2_5_6R_AP0182_A09.ab1<--



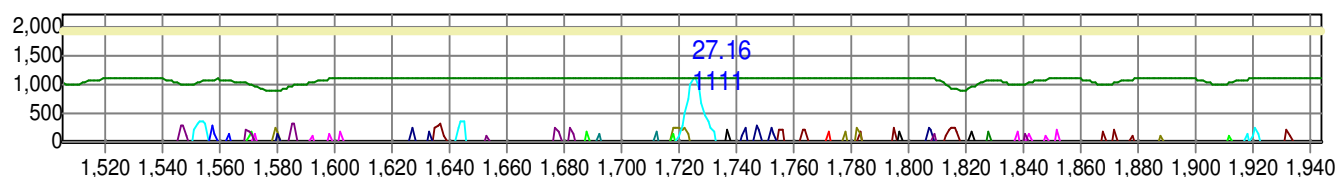
1S--> NOD2_5_6F_PR0144_H05.ab1-->



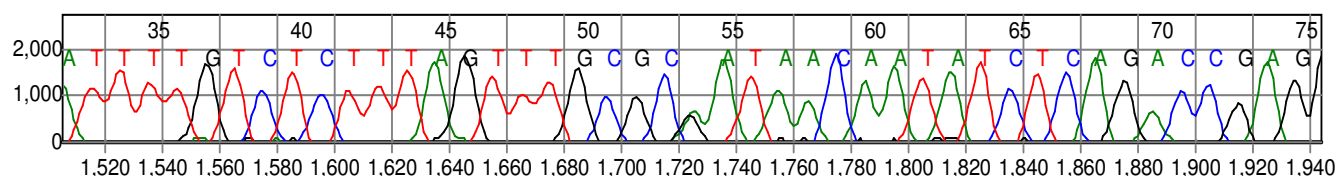
1S--> NOD2_5_6F_PR0144_H05.ab1 Mutations: 22992G>GA\$35.6 22993A>AG\$30.5



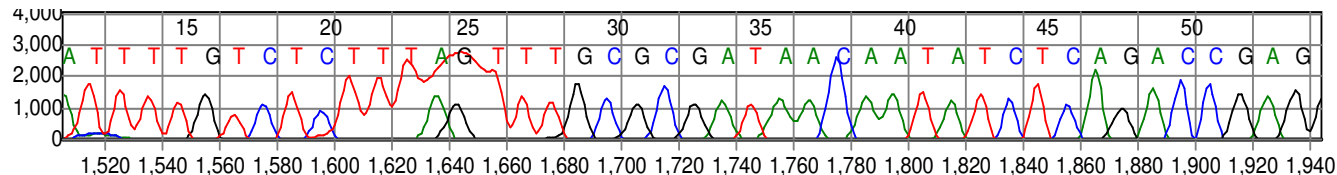
1S<-- NOD2_5_6R_PR0144_H06.ab1 Mutations: 22992G>GA\$27.2



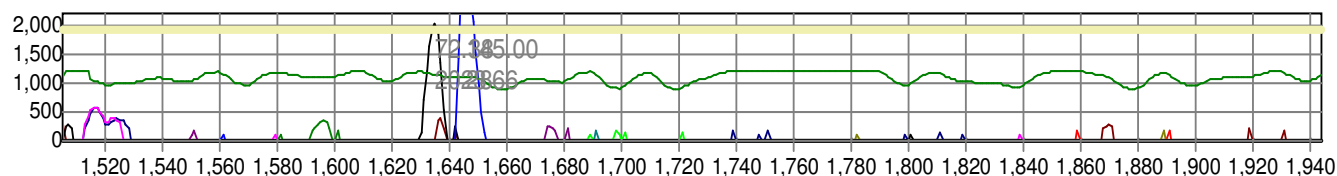
1S<-- NOD2_5_6R_PR0144_H06.ab1<--



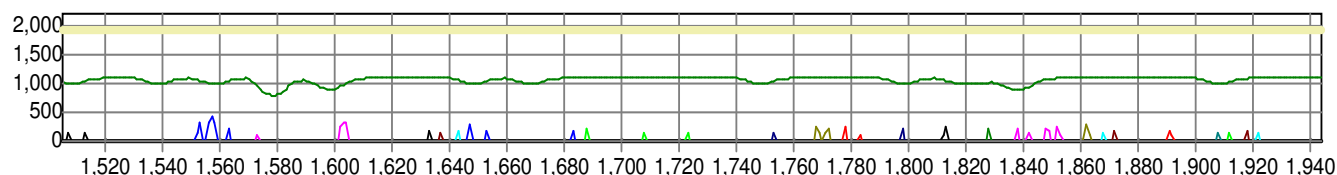
1S--> NOD2_5_6F_SONP0090_B10.ab1-->



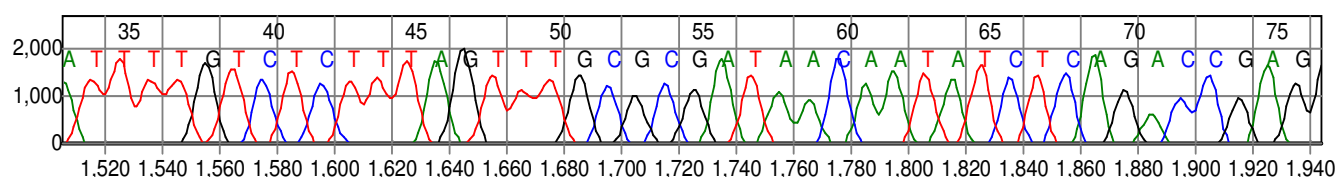
1S--> NOD2_5_6F_SONP0090_B10.ab1



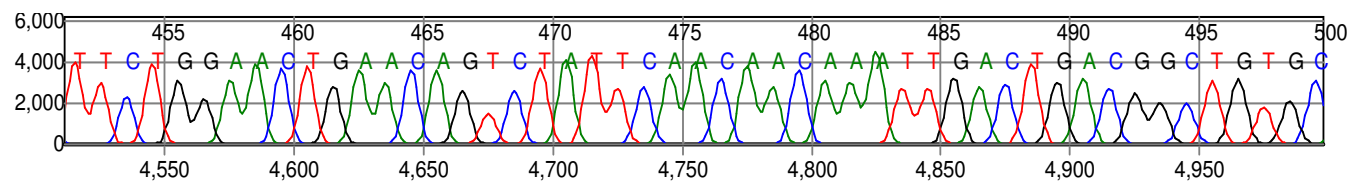
1S<-- NOD2_5_6R_SONP0090_B09.ab1



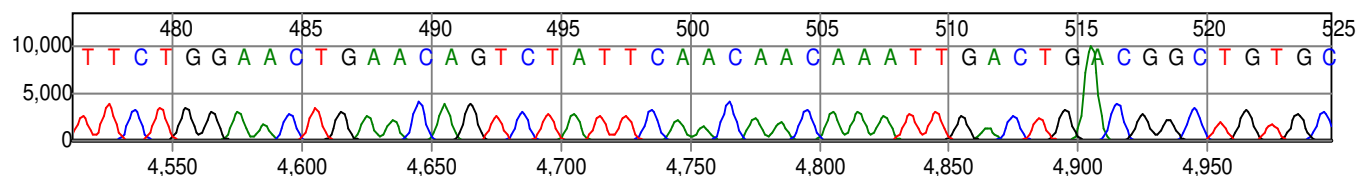
1S<-- NOD2_5_6R_SONP0090_B09.ab1<--



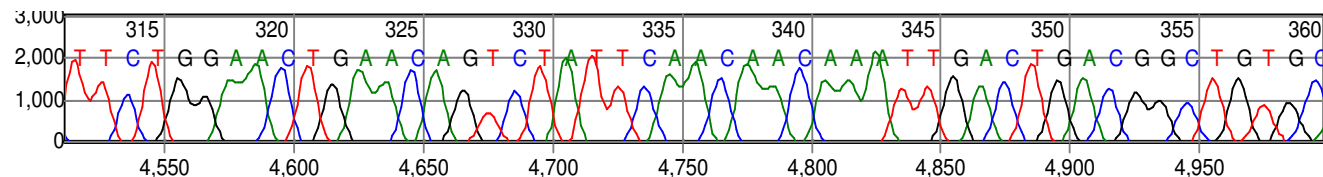
1R--> NOD2_F_Synthesis_23156.scf-->



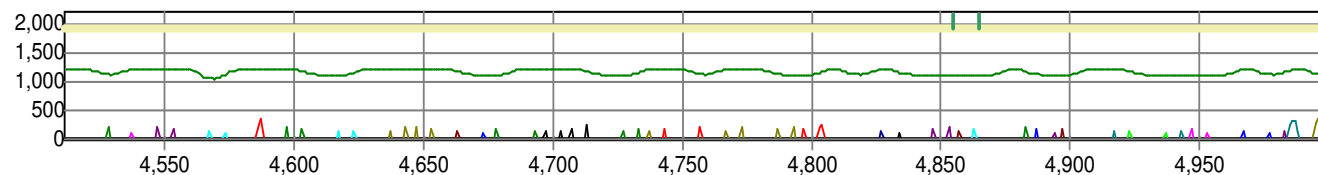
1R<-- NOD2_R_Synthesis_23155.scf<--



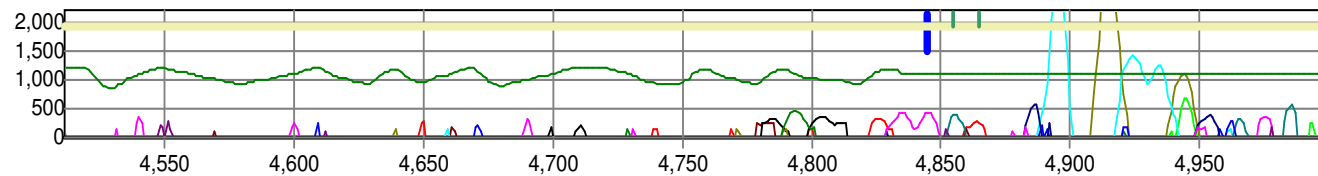
1S--> NOD2_5_6F_SOAP0493_A07.ab1-->



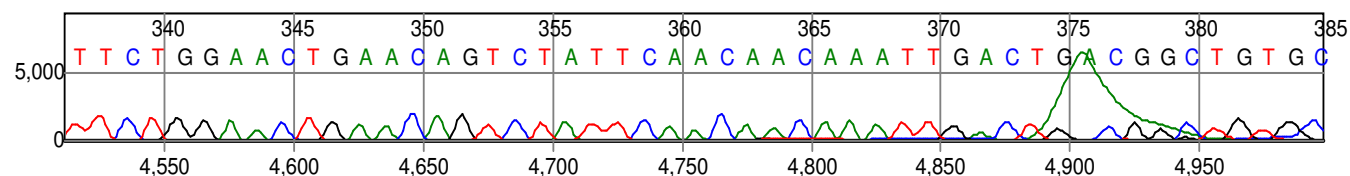
1S--> NOD2_5_6F_SOAP0493_A07.ab1



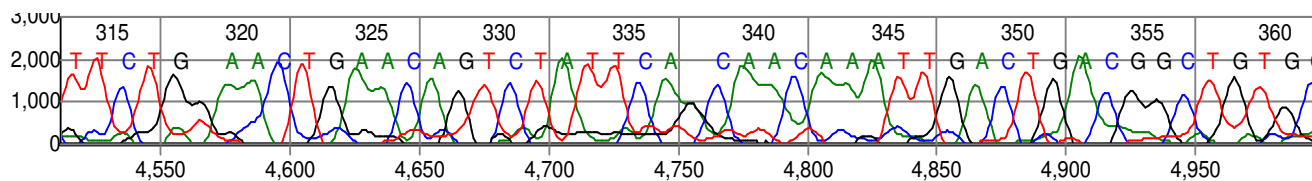
1S<-- NOD2_5_6R_SOAP0493_A08.ab1



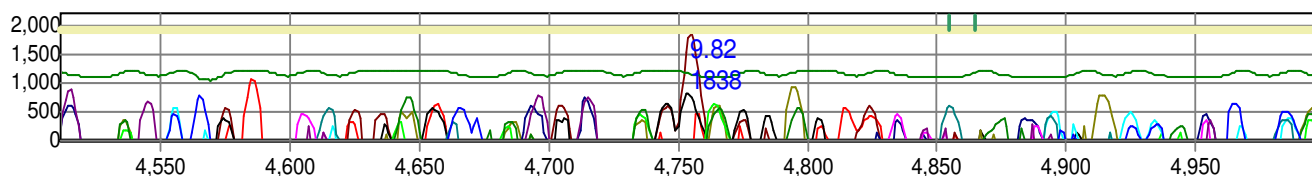
1S<-- NOD2_5_6R_SOAP0493_A08.ab1<--



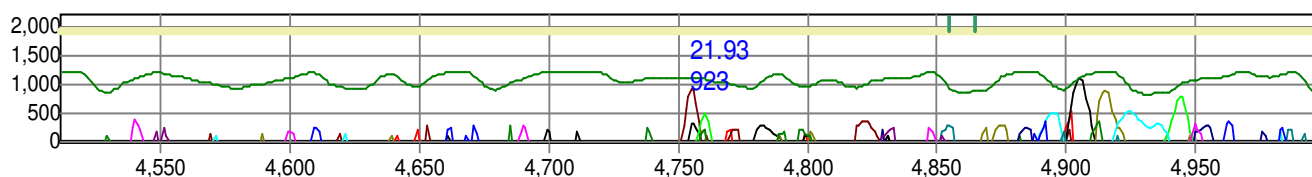
1S--> NOD2_5_6F_SONP0145_B07.ab1-->



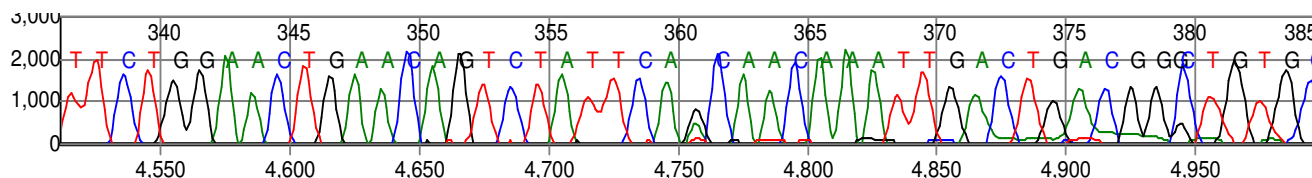
1S--> NOD2_5_6F_SONP0145_B07.ab1 Mutations: 23297A>AG\$9.8



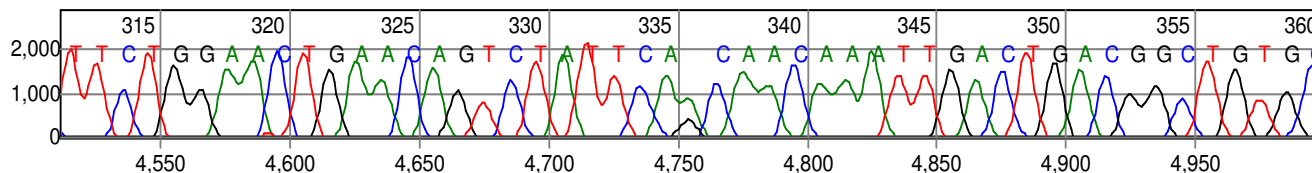
1S<-- NOD2_5_6R_SONP0145_B08.ab1 Mutations: 23297A>AG\$21.9



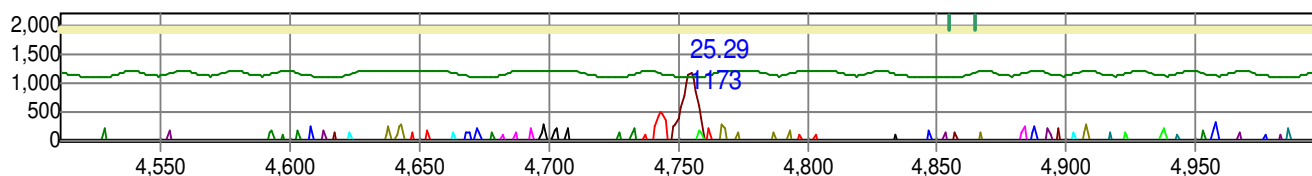
1S<-- NOD2_5_6R_SONP0145_B08.ab1<--



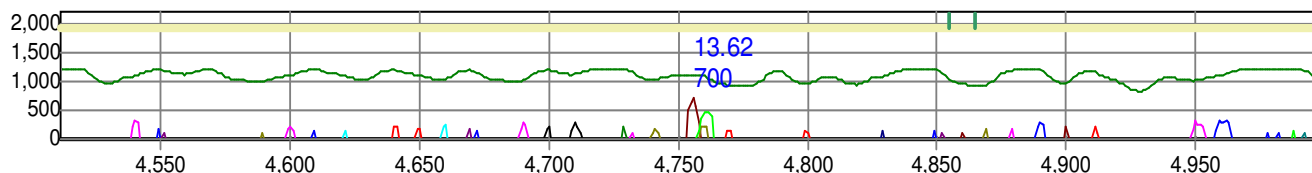
1S--> NOD2_5_6F_SOPR0409_G05.ab1-->



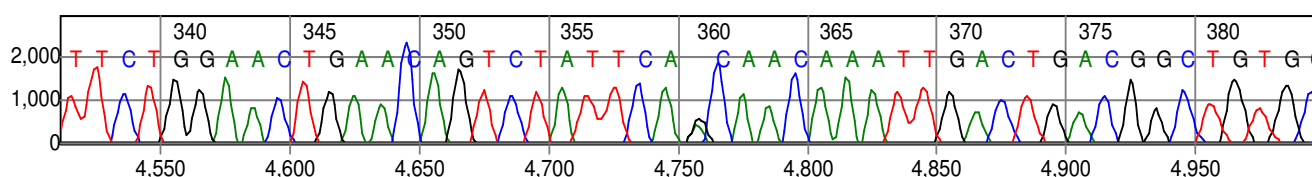
1S--> NOD2_5_6F_SOPR0409_G05.ab1 Mutations: 23297A>AG\$25.3



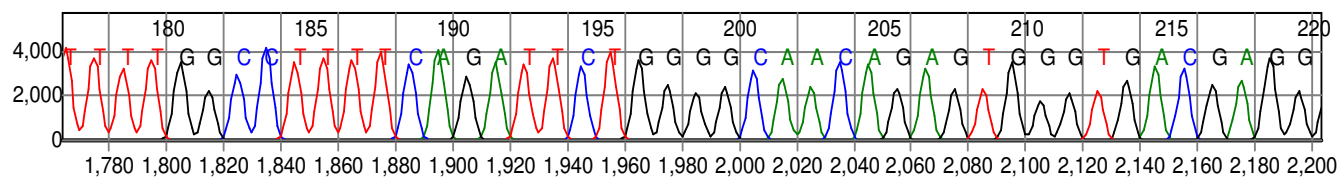
1S<-- NOD2_5_6R_SOPR0409_G06.ab1 Mutations: 23297A>AG\$13.6



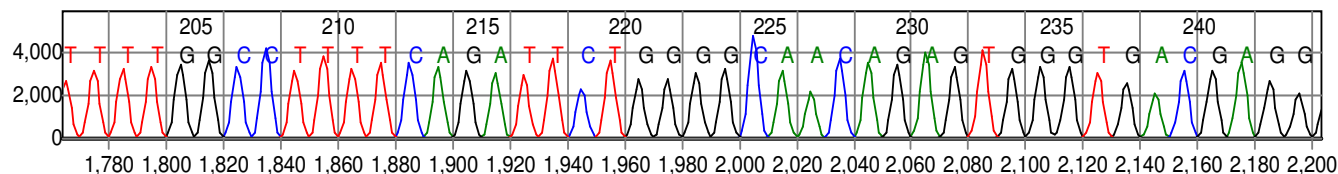
1S<-- NOD2_5_6R_SOPR0409_G06.ab1<--



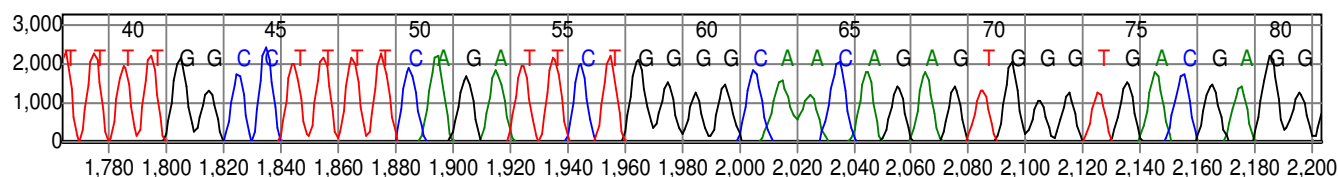
1R--> NOD2_F_Synthesis_29044.scf-->



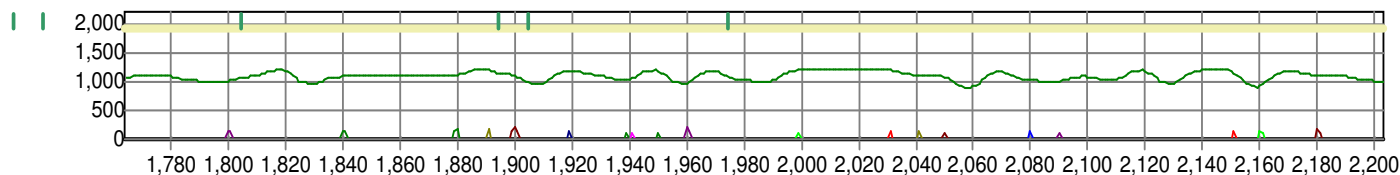
1R<-- NOD2_R_Synthesis_29043.scf<--



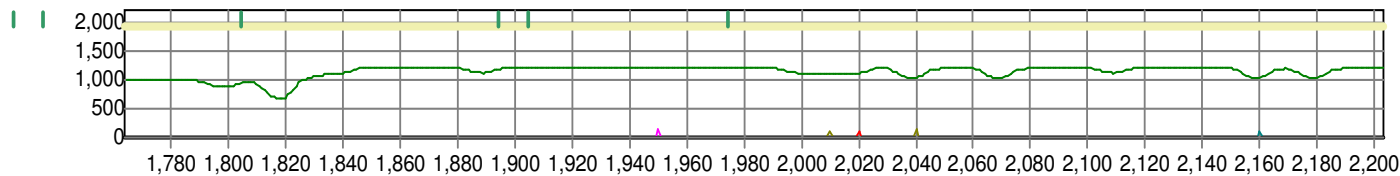
1S--> NOD2_8F_AP0078_C09.ab1-->



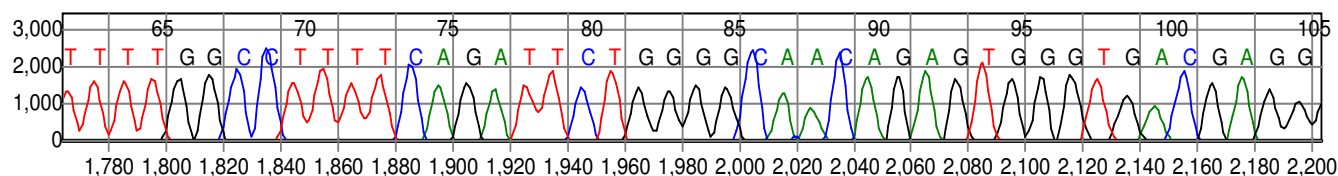
1S--> NOD2_8F_AP0078_C09.ab1



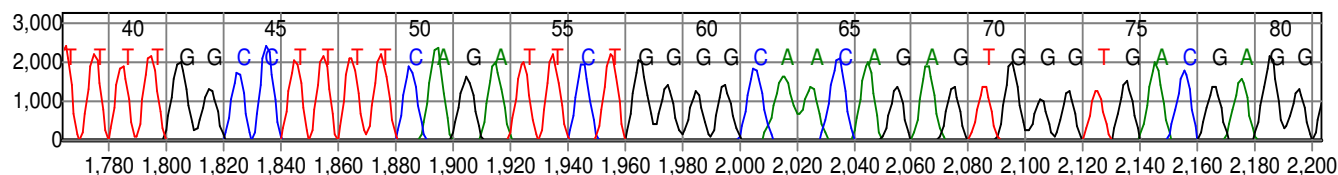
1S<-- NOD2_8R_AP0078_C10.ab1



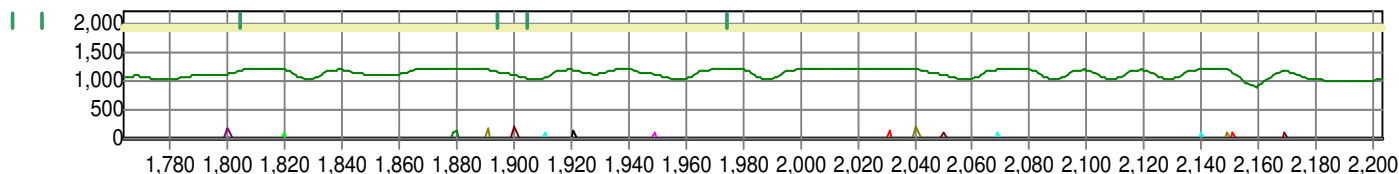
1S<-- NOD2_8R_AP0078_C10.ab1<--



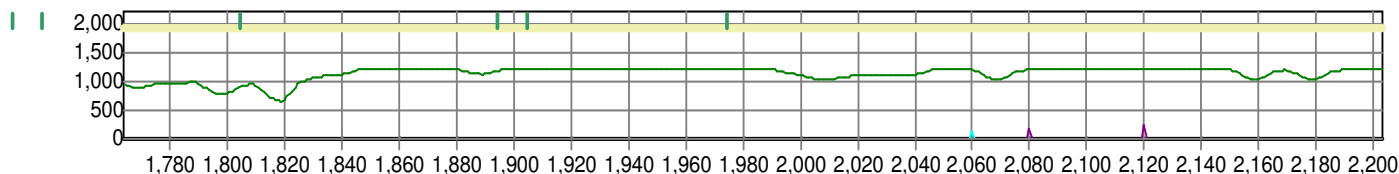
1S--> NOD2_8F_AP0182_F07.ab1-->



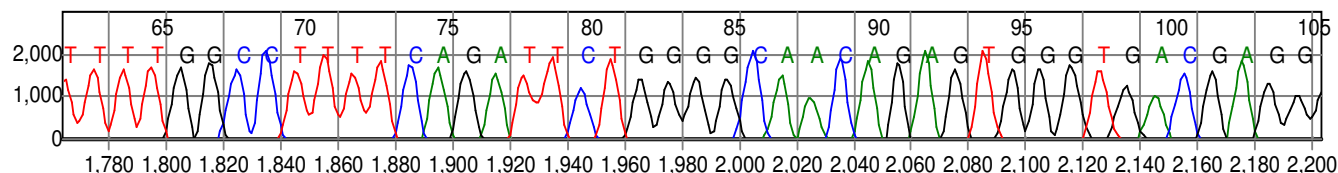
1S--> NOD2_8F_AP0182_F07.ab1



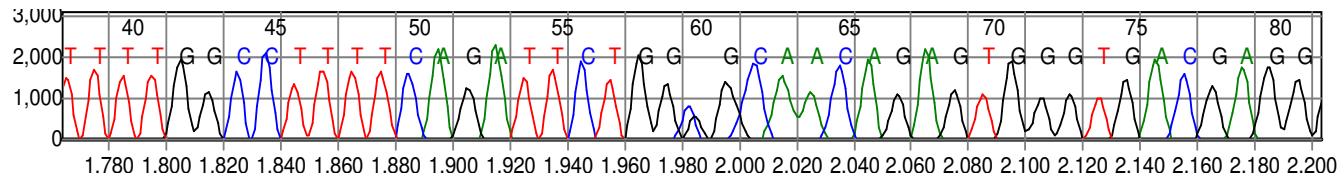
1S<-- NOD2_8R_AP0182_F08.ab1



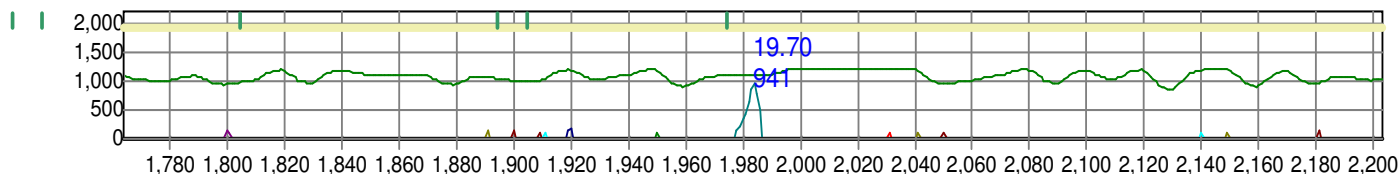
1S<-- NOD2_8R_AP0182_F08.ab1<--



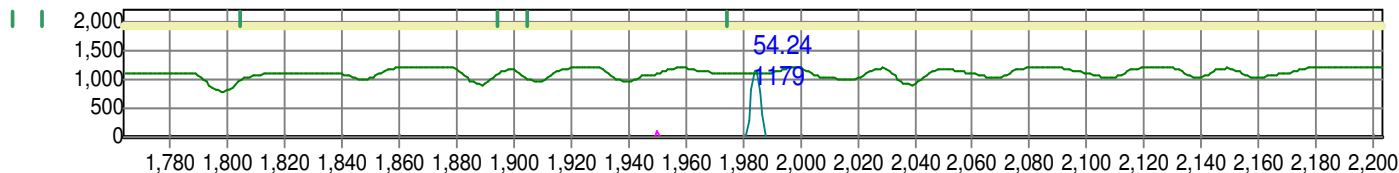
1S--> NOD2_8F_PR0063_E03.ab1-->



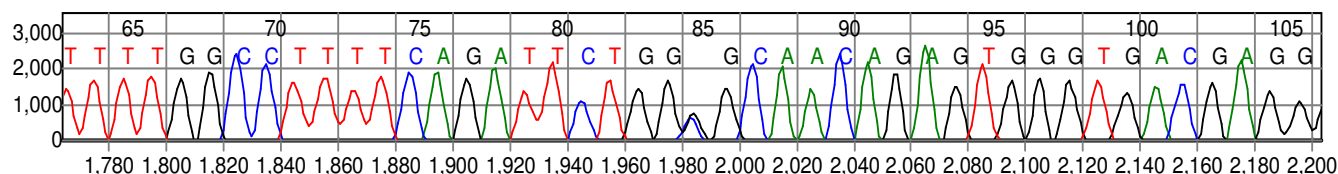
1S--> NOD2_8F_PR0063_E03.ab1 Mutations: 29027G>GC\$19.7



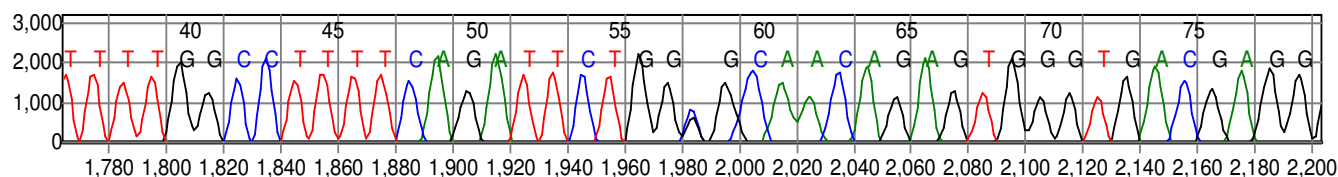
1S<-- NOD2_8R_PR0063_E04.ab1 Mutations: 29027G>GC\$54.2



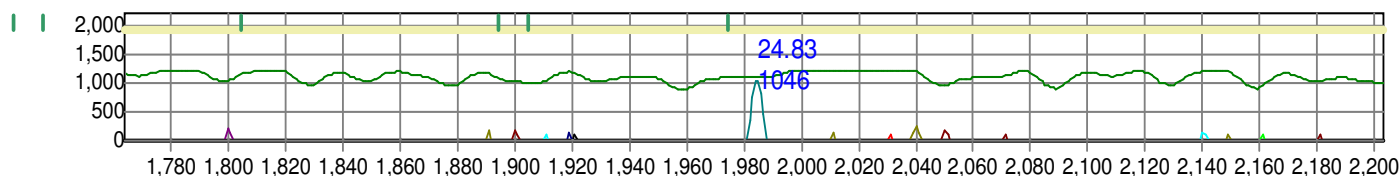
1S<-- NOD2_8R_PR0063_E04.ab1<--



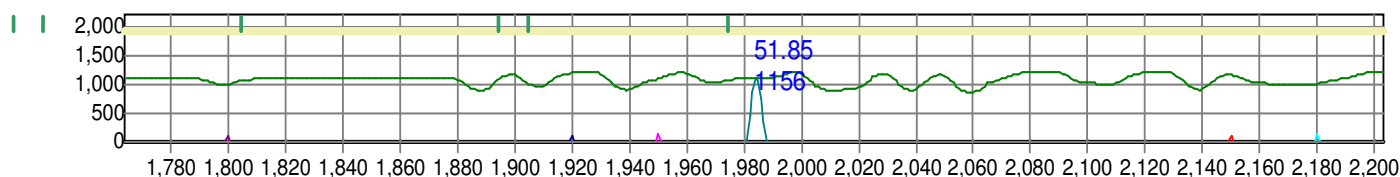
1S--> NOD2_8F_PR0144_H03.ab1-->



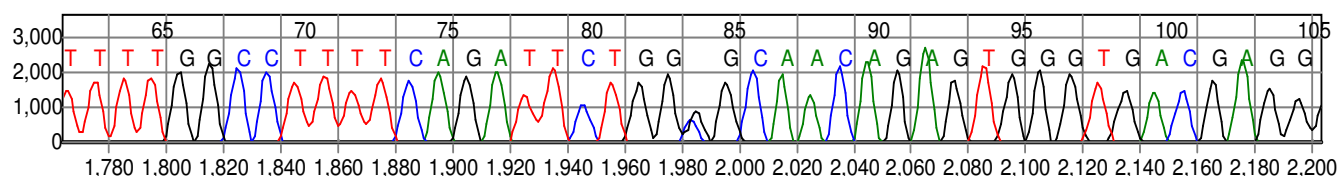
1S--> NOD2_8F_PR0144_H03.ab1 Mutations: 29027G>GC\$24.8



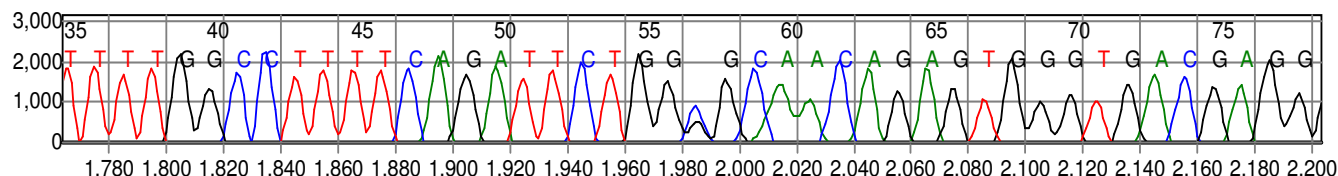
1S<-- NOD2_8R_PR0144_H04.ab1 Mutations: 29027G>GC\$51.8



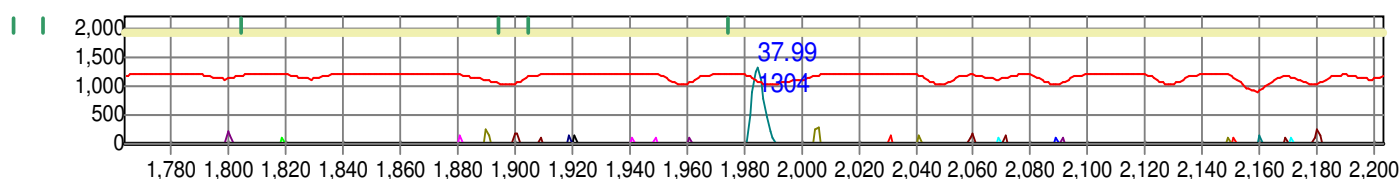
1S<-- NOD2_8R_PR0144_H04.ab1<--



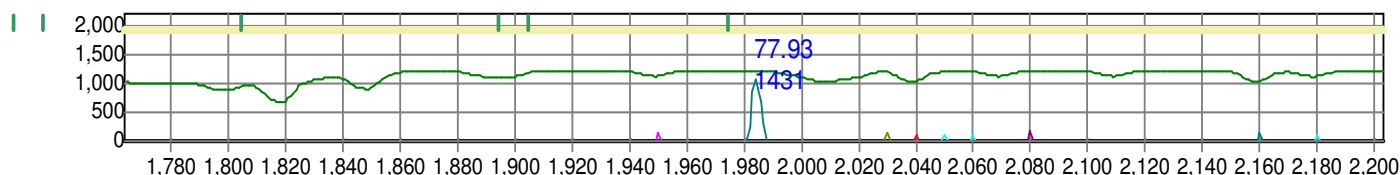
1S--> NOD2_8F_SOAP0419_C07.ab1-->



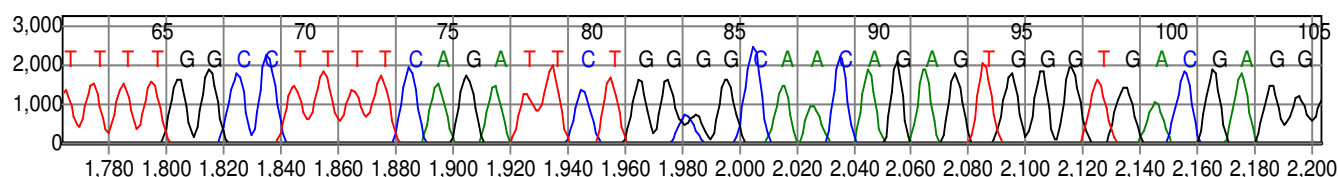
1S--> NOD2_8F_SOAP0419_C07.ab1 Mutations: 29027G>GC\$38.0



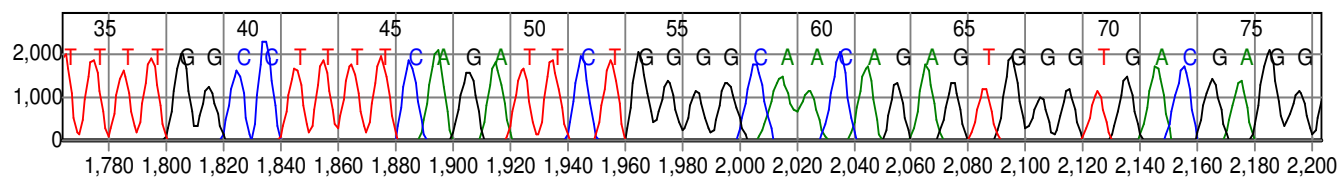
1S<-- NOD2_8R_SOAP0419_C08.ab1 Mutations: 29027G>GC\$77.9



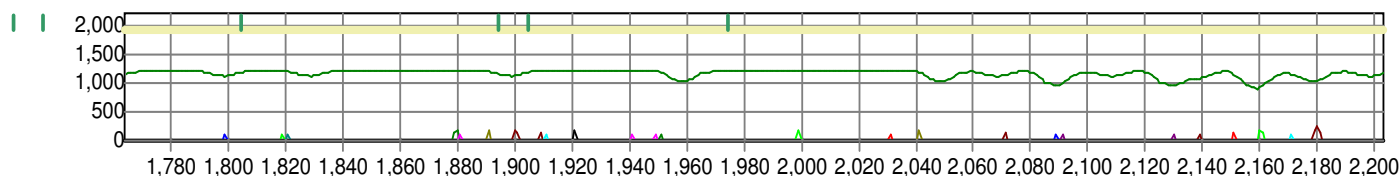
1S<-- NOD2_8R_SOAP0419_C08.ab1<--



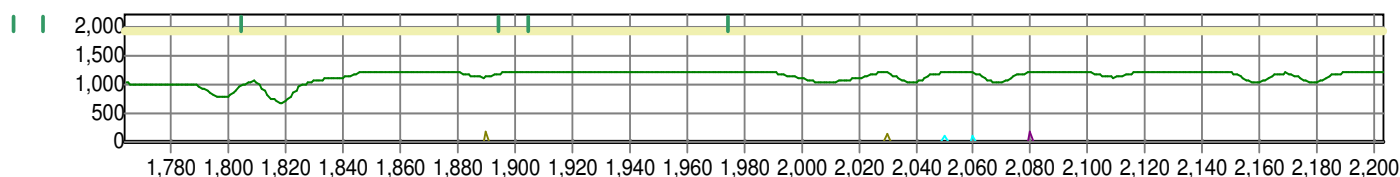
1S--> NOD2_8F_SOAP0420_D07.ab1-->



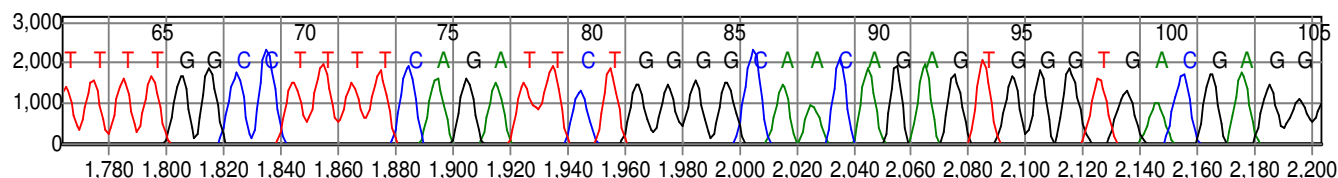
1S--> NOD2_8F_SOAP0420_D07.ab1



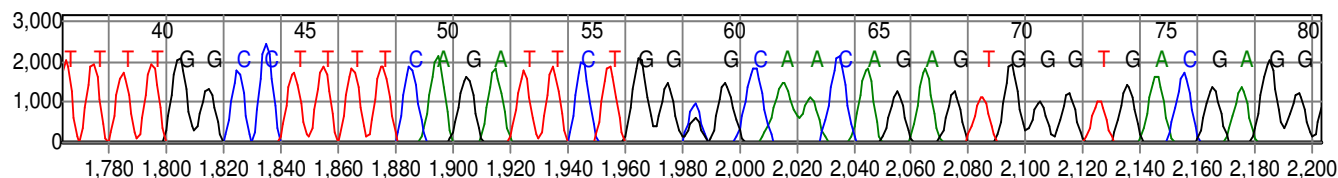
1S<-- NOD2_8R_SOAP0420_D08.ab1



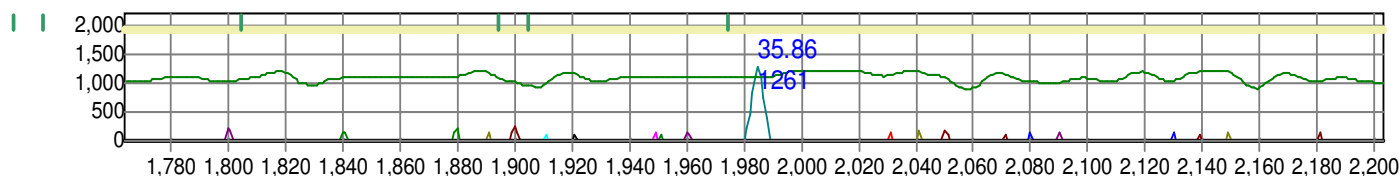
1S<-- NOD2_8R_SOAP0420_D08.ab1<--



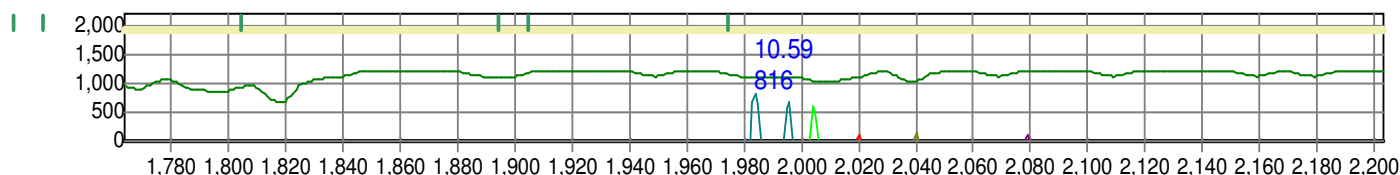
1S--> NOD2_8F_SOAP0433_H07.ab1-->



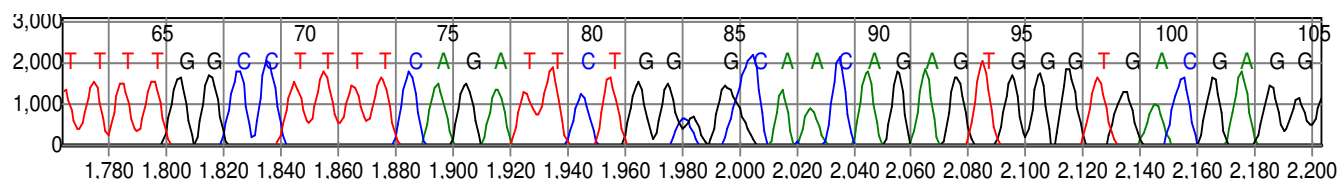
1S--> NOD2_8F_SOAP0433_H07.ab1 Mutations: 29027G>GC\$35.9



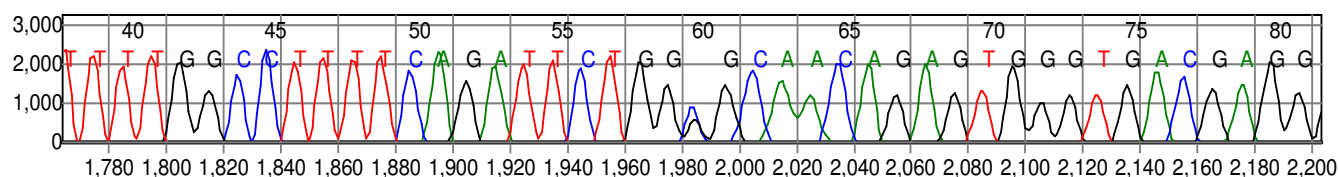
1S<-- NOD2_8R_SOAP0433_H08.ab1 Mutations: 29027G>GC\$10.6



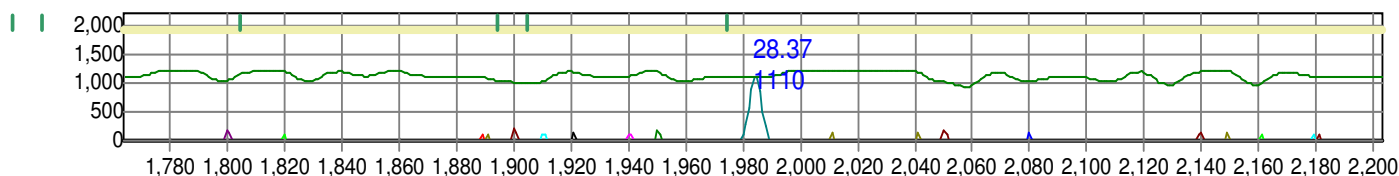
1S<-- NOD2_8R_SOAP0433_H08.ab1<--



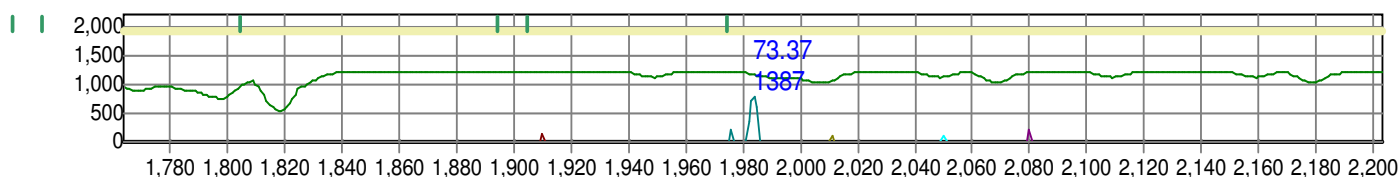
1S--> NOD2_8F_SONP0090_G07.ab1-->



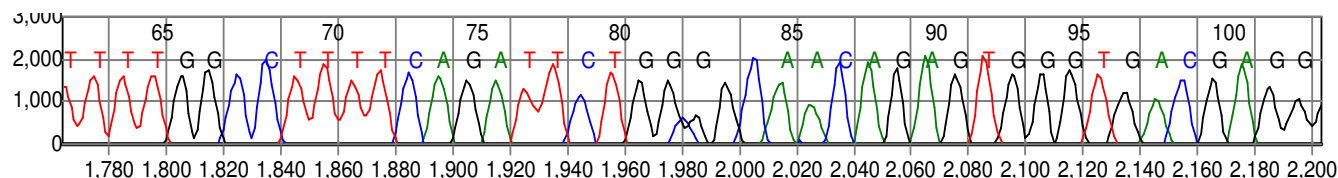
1S--> NOD2_8F_SONP0090_G07.ab1 Mutations: 29027G>GC\$28.4



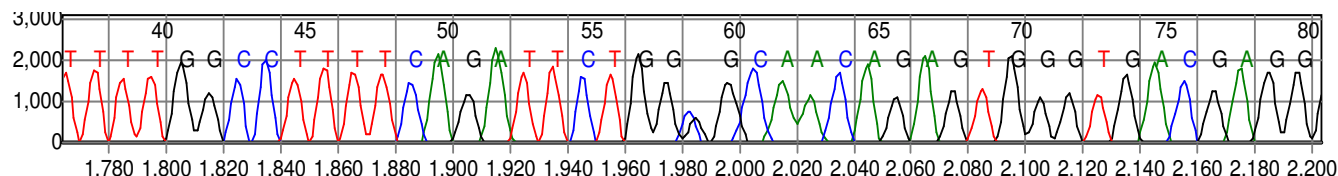
1S<-- NOD2_8R_SONP0090_G08.ab1 Mutations: 29027G>GC\$73.4



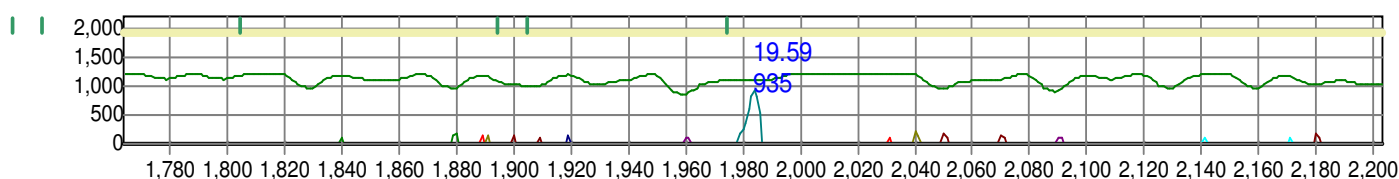
1S<-- NOD2_8R_SONP0090_G08.ab1<--



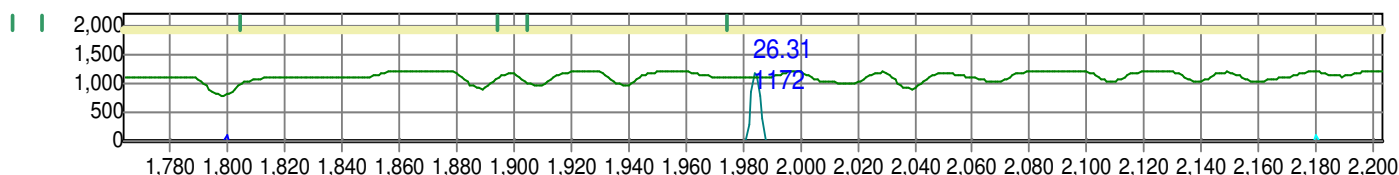
1S--> NOD2_8F_SOPR0339_F03.ab1-->



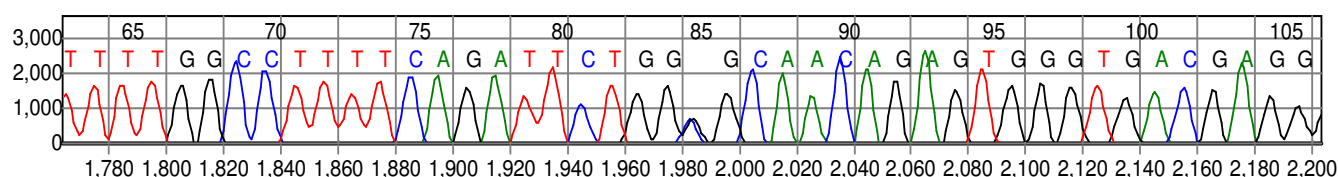
1S--> NOD2_8F_SOPR0339_F03.ab1 Mutations: 29027G>GC\$19.6



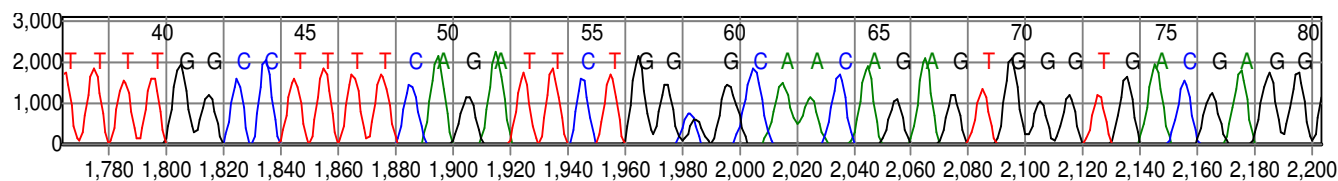
1S<-- NOD2_8R_SOPR0339_F04.ab1 Mutations: 29027G>GC\$26.3



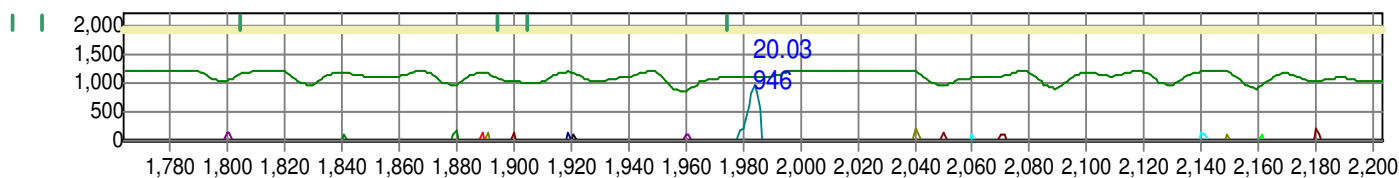
1S<-- NOD2_8R_SOPR0339_F04.ab1<--



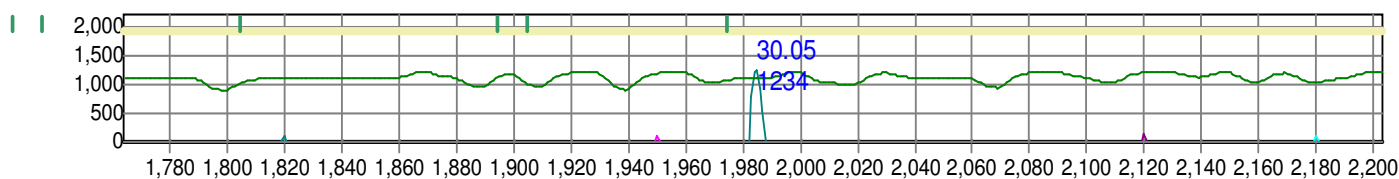
1S--> NOD2_8F_SOPR0350_G03.ab1-->



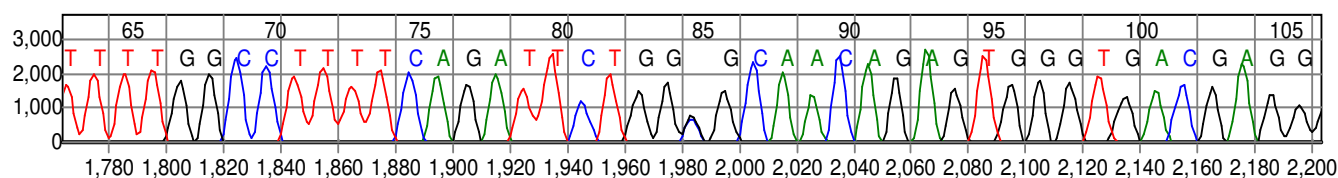
1S--> NOD2_8F_SOPR0350_G03.ab1 Mutations: 29027G>GC\$20.0



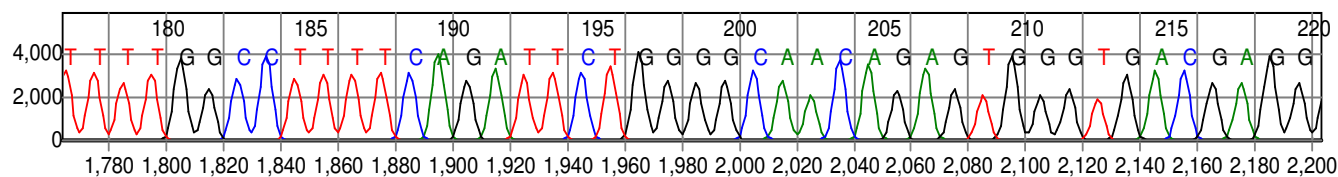
1S<-- NOD2_8R_SOPR0350_G04.ab1 Mutations: 29027G>GC\$30.1



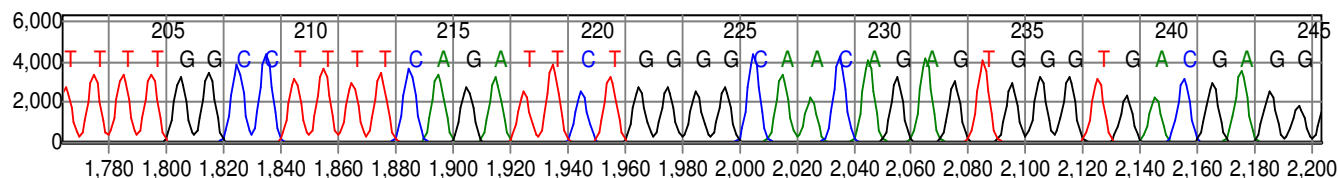
1S<-- NOD2_8R_SOPR0350_G04.ab1<--



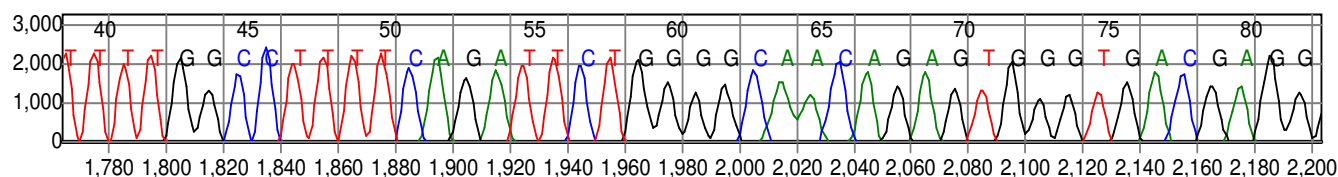
1R--> NOD2_F_Synthesis_29044.scf-->



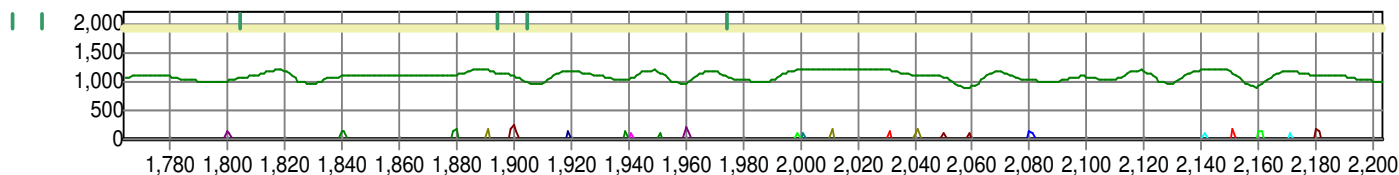
1R<-- NOD2_R_Synthesis_29044.scf<--



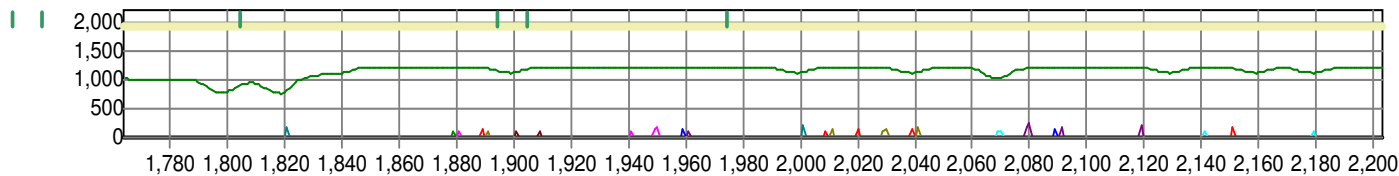
1S--> NOD2_8F_AP0078_C09.ab1-->



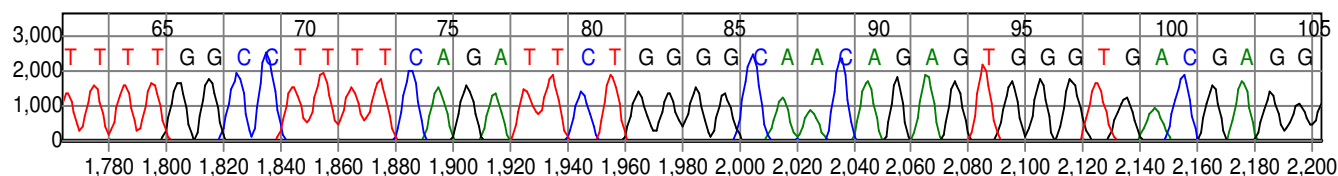
1S--> NOD2_8F_AP0078_C09.ab1



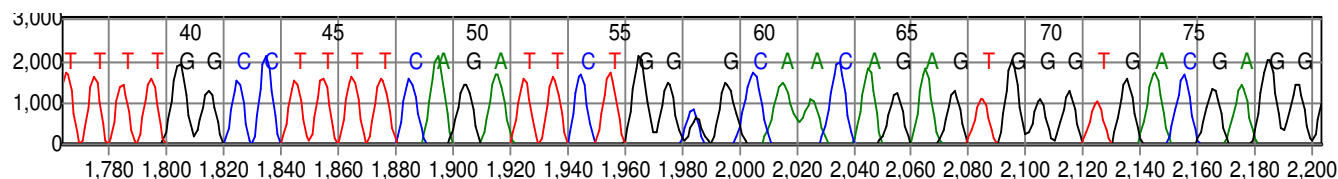
1S<-- NOD2_8R_AP0078_C10.ab1



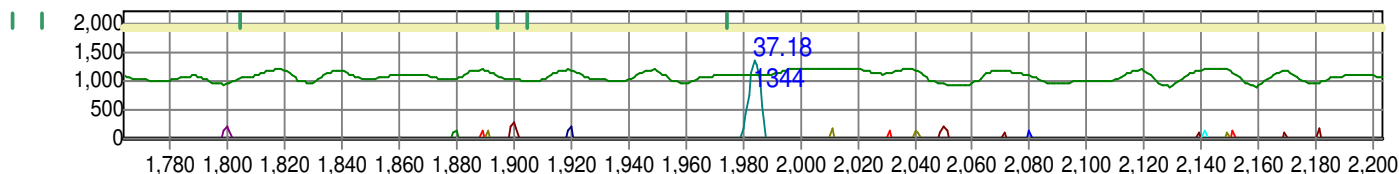
1S<-- NOD2_8R_AP0078_C10.ab1<--



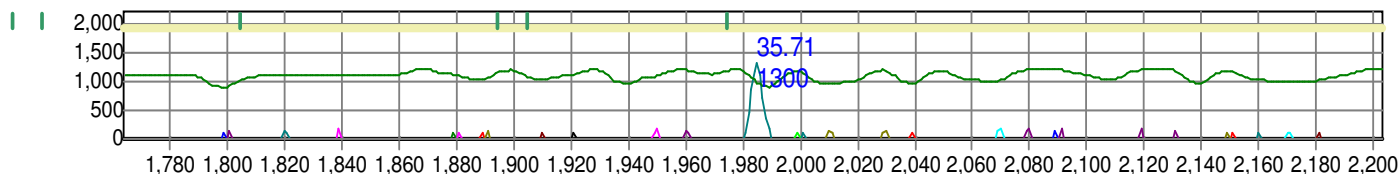
1S--> NOD2_8F_NP0021_F09.ab1-->



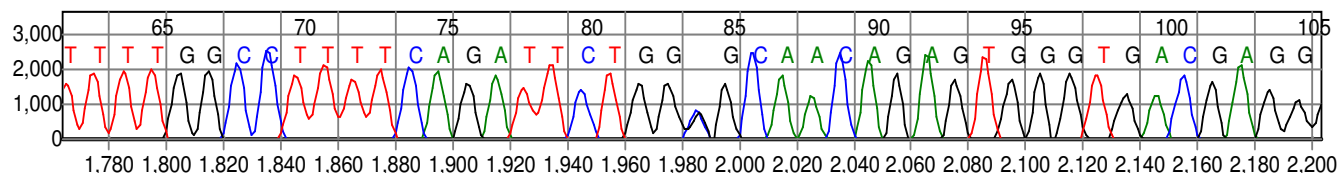
1S--> NOD2_8F_NP0021_F09.ab1 Mutations: 29027G>GC\$37.2



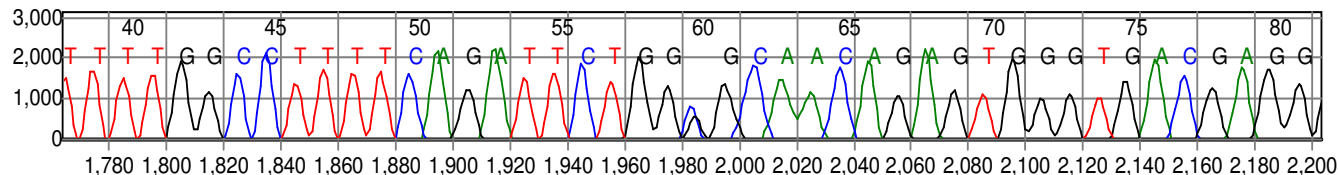
1S<-- NOD2_8R_NP0021_F10.ab1 Mutations: 29027G>GC\$35.7



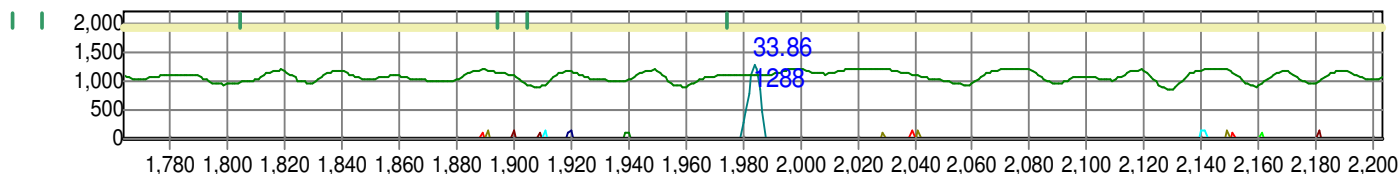
1S<-- NOD2_8R_NP0021_F10.ab1<--



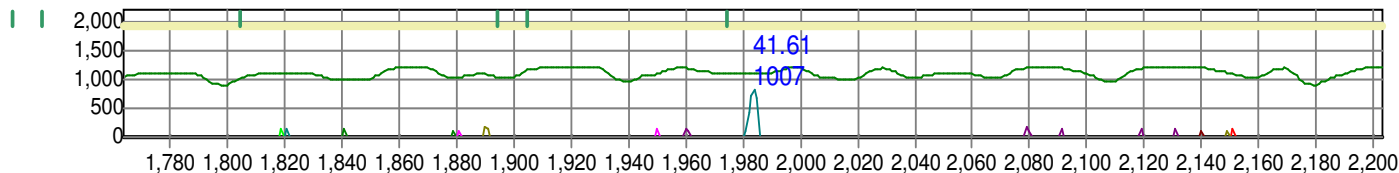
1S--> NOD2_8F_PR0063_E03.ab1-->



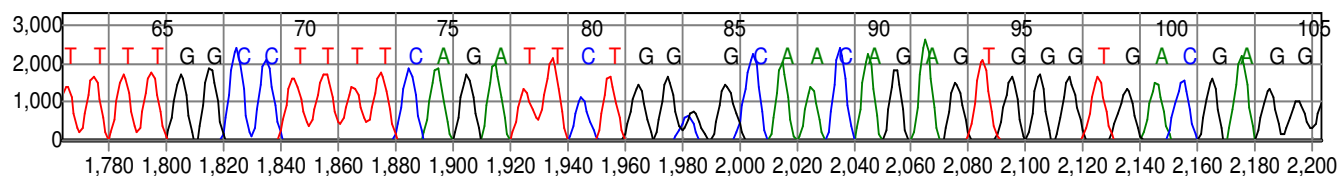
1S--> NOD2_8F_PR0063_E03.ab1 Mutations: 29027G>GC\$33.9



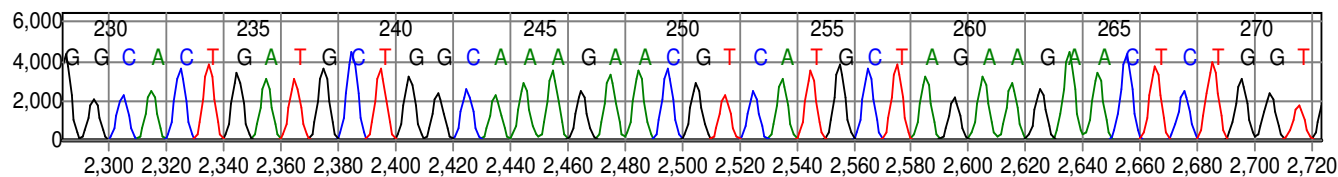
1S<-- NOD2_8R_PR0063_E04.ab1 Mutations: 29027G>GC\$41.6



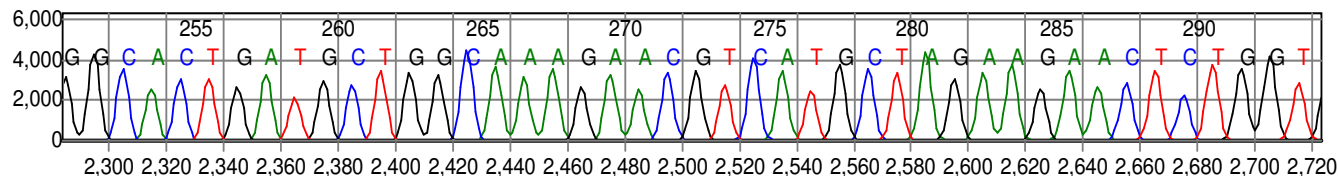
1S<-- NOD2_8R_PR0063_E04.ab1<--



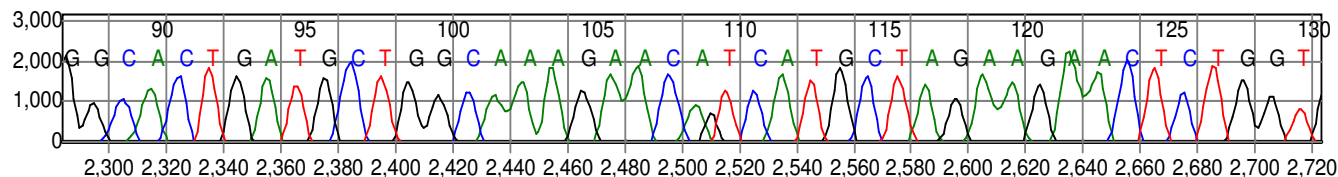
1R--> NOD2_F_Synthesis_29739.scf-->



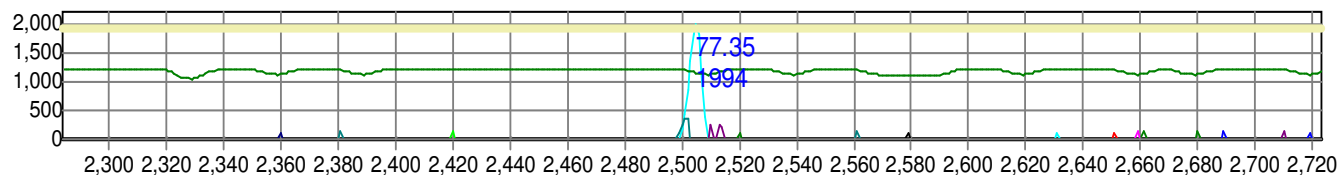
1R<-- NOD2_R_Synthesis_29741.scf<--



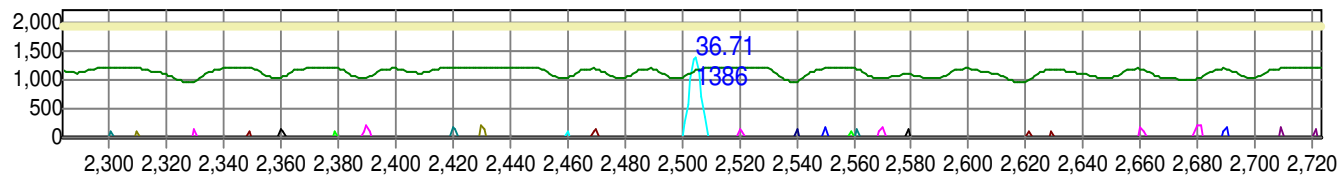
1S--> NOD2_9F_AP0047_A11.ab1-->



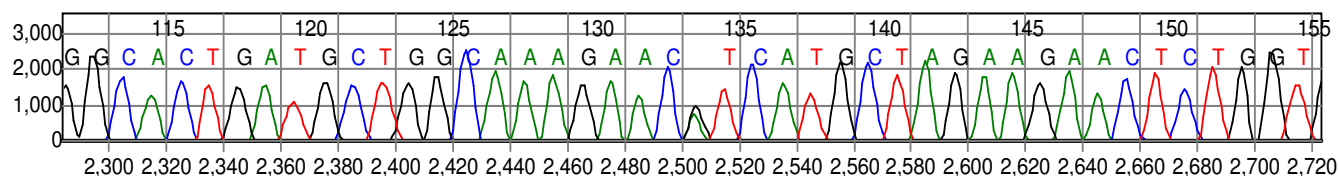
1S--> NOD2_9F_AP0047_A11.ab1 Mutations: 29763G>GA\$77.3



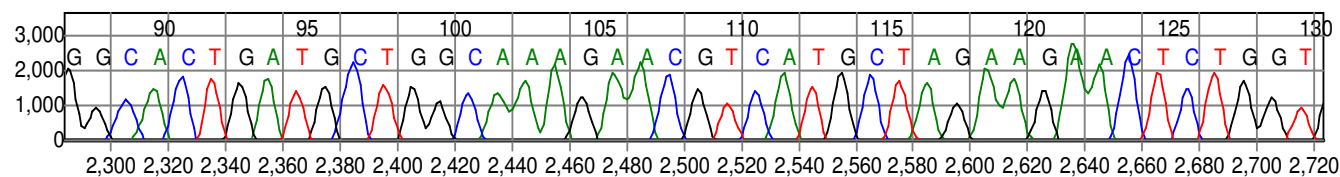
1S<-- NOD2_9R_AP0047_A12.ab1 Mutations: 29763G>GA\$36.7



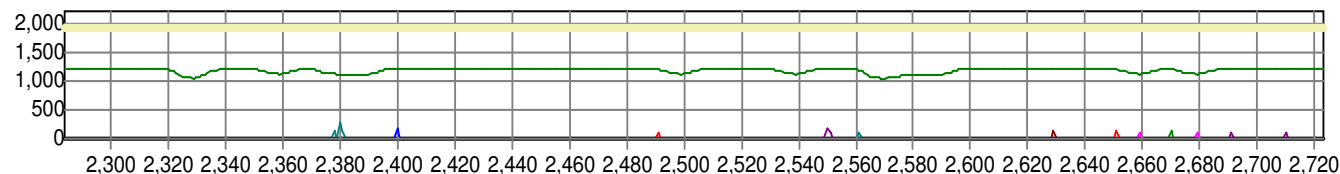
1S<-- NOD2_9R_AP0047_A12.ab1<--



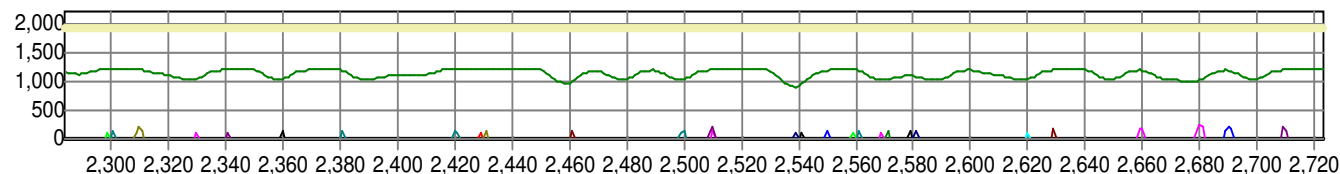
1S--> NOD2_9F_AP0125_B11.ab1-->



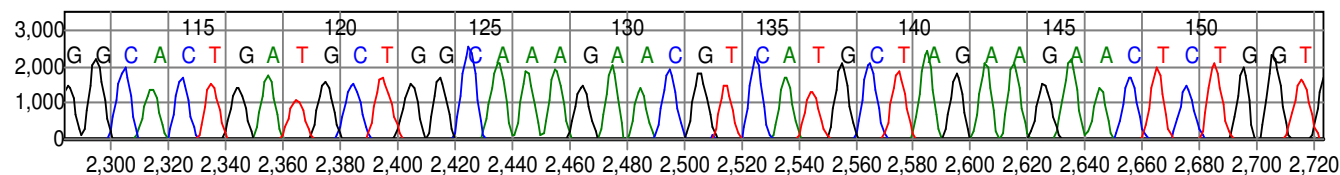
1S--> NOD2_9F_AP0125_B11.ab1



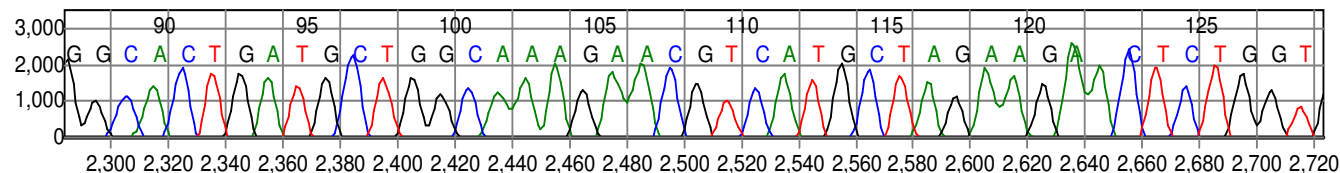
1S<-- NOD2_9R_AP0125_B12.ab1



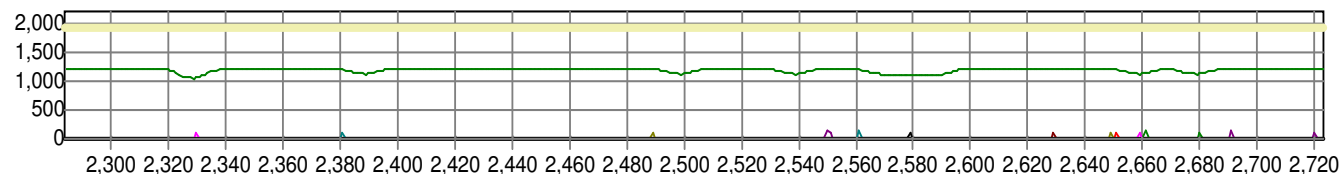
1S<-- NOD2_9R_AP0125_B12.ab1<--



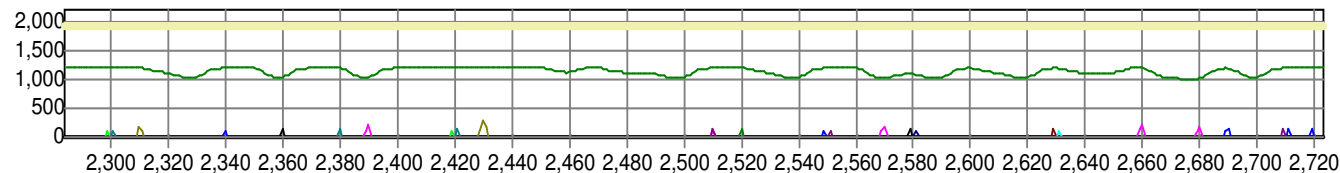
1S--> NOD2_9F_AP0143_D09.ab1-->



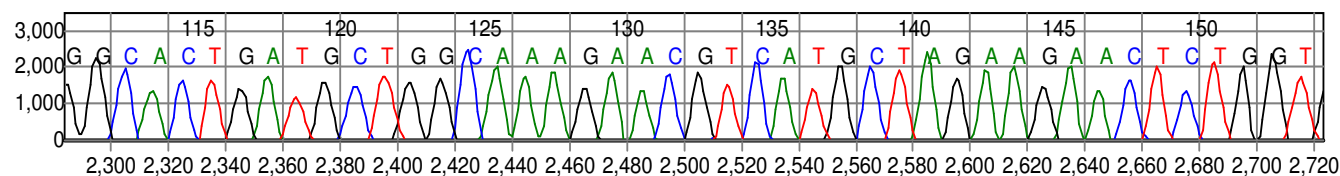
1S--> NOD2_9F_AP0143_D09.ab1



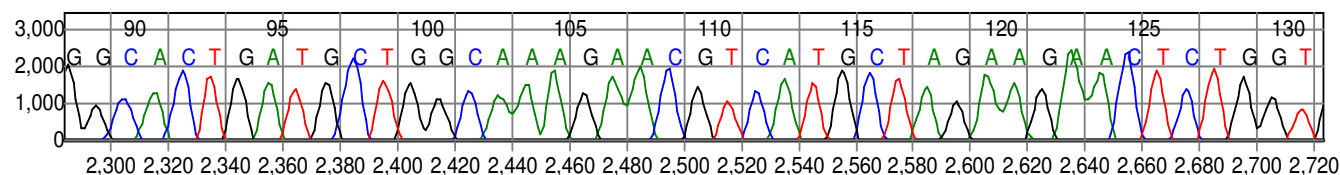
1S<-- NOD2_9R_AP0143_D10.ab1



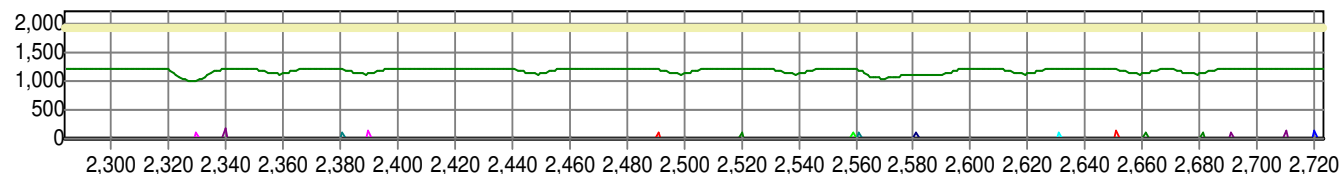
1S<-- NOD2_9R_AP0143_D10.ab1<--



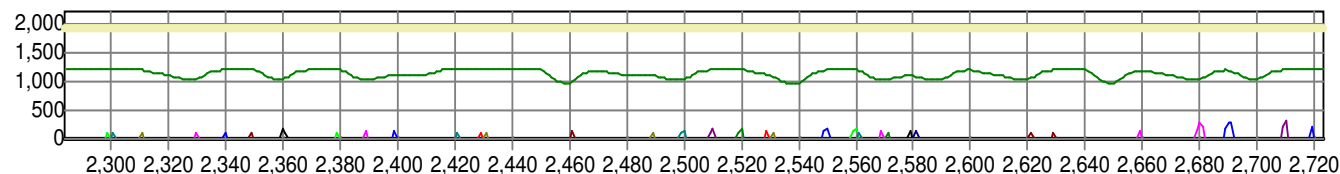
1S--> NOD2_9F_AP0181_D11.ab1-->



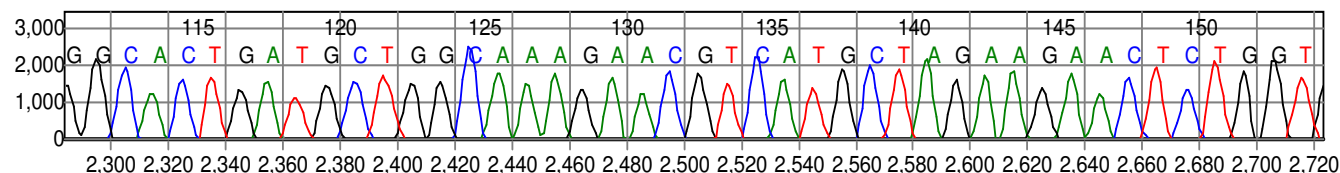
1S--> NOD2_9F_AP0181_D11.ab1



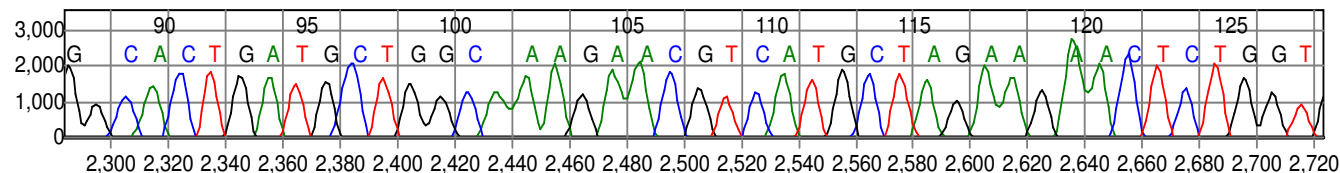
1S<-- NOD2_9R_AP0181_D12.ab1



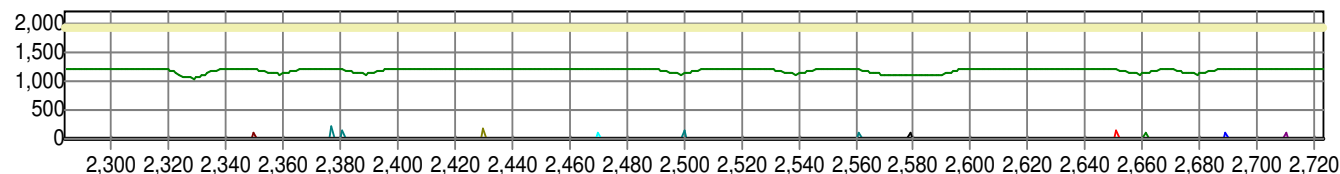
1S<-- NOD2_9R_AP0181_D12.ab1<--



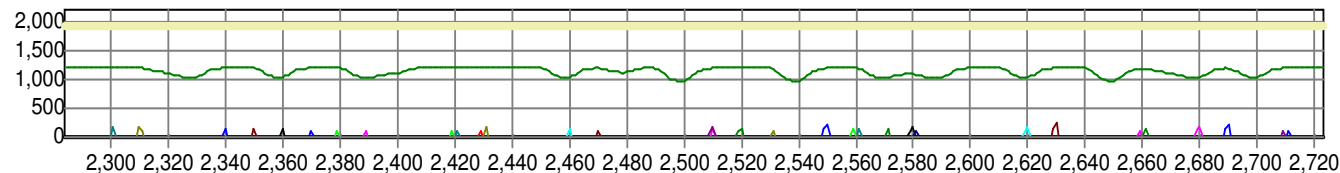
1S--> NOD2_9F_AP0192_F09.ab1-->



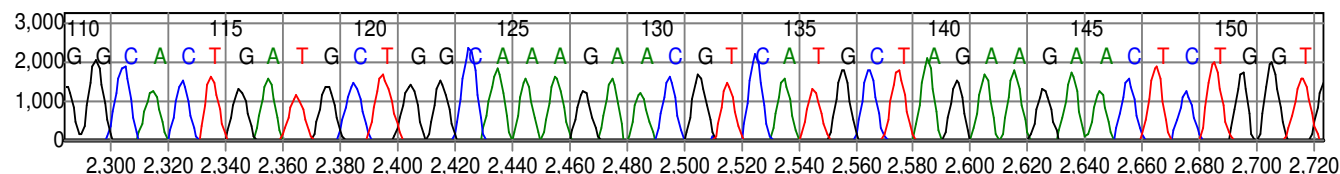
1S--> NOD2_9F_AP0192_F09.ab1



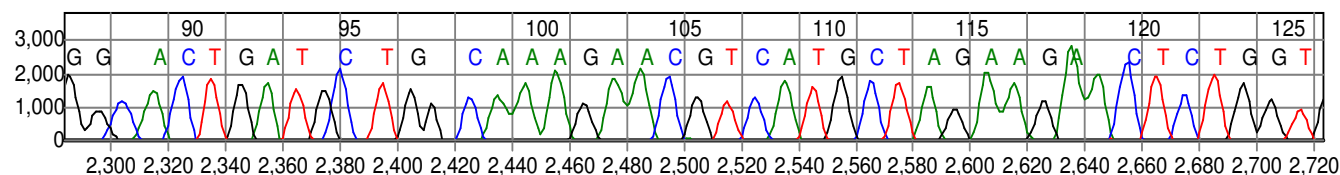
1S<-- NOD2_9R_AP0192_F10.ab1



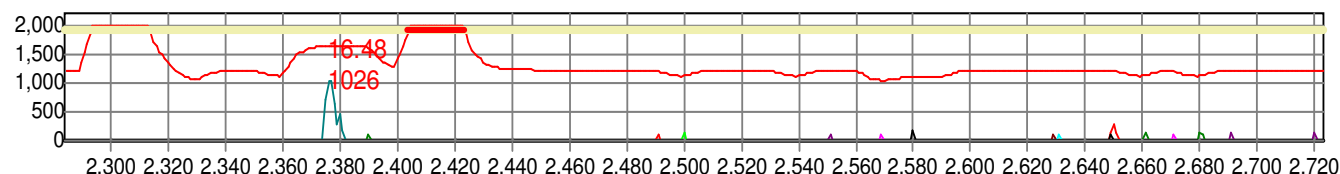
1S<-- NOD2_9R_AP0192_F10.ab1<--



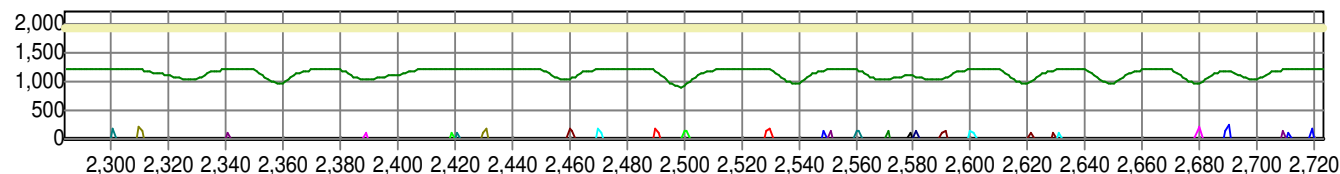
1S--> NOD2_9F_AP0266_G09.ab1-->



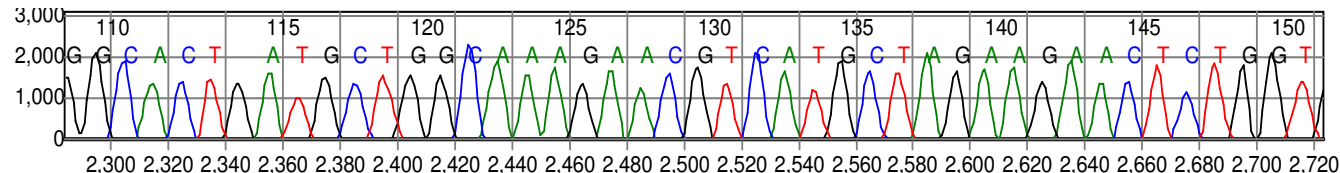
1S--> NOD2_9F_AP0266_G09.ab1 Mutations: 29750G>GC\$16.5 29754delG



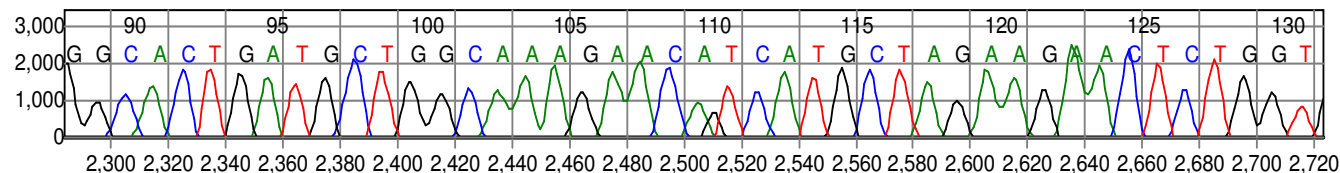
1S<-- NOD2_9R_AP0266_G10.ab1



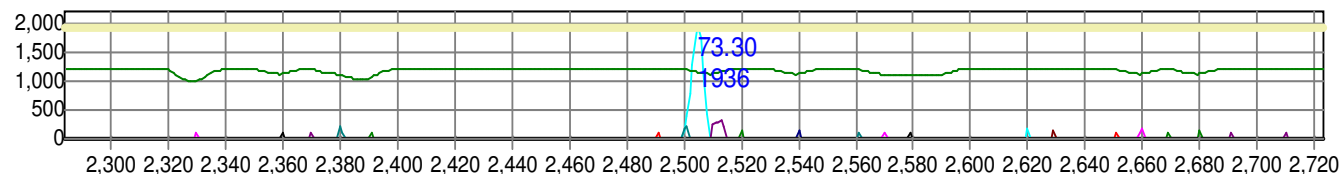
1S<-- NOD2_9R_AP0266_G10.ab1<--



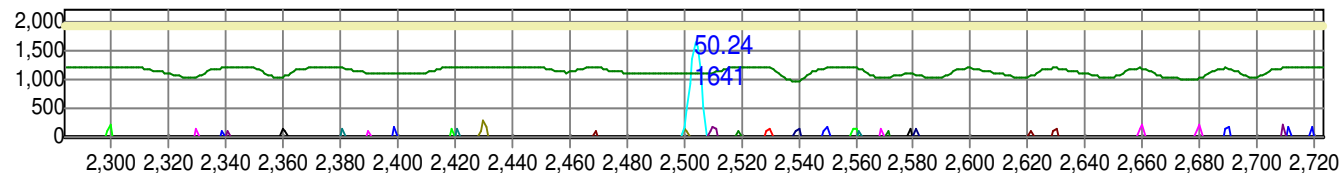
1S--> NOD2_9F_AP0267_H09.ab1-->



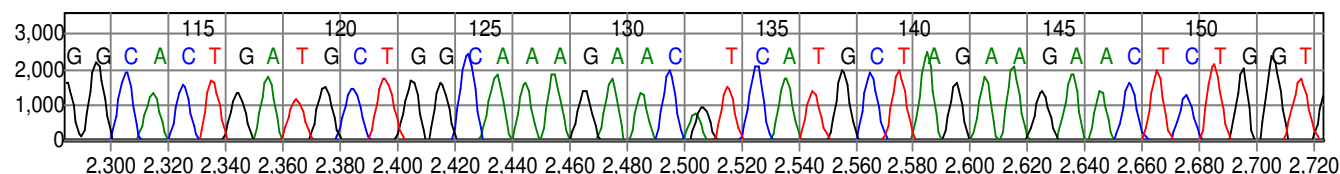
1S--> NOD2_9F_AP0267_H09.ab1 Mutations: 29763G>GA\$73.3



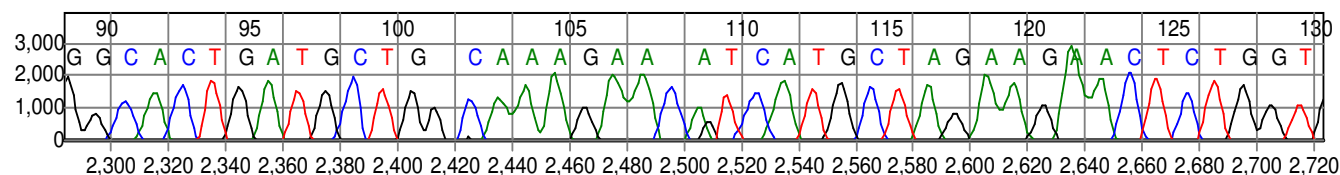
1S<-- NOD2_9R_AP0267_H10.ab1 Mutations: 29763G>GA\$50.2



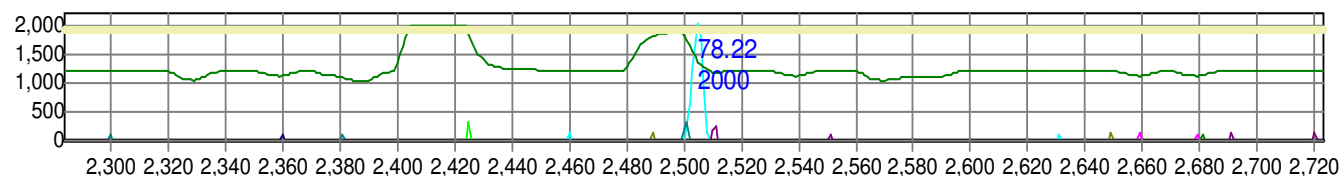
1S<-- NOD2_9R_AP0267_H10.ab1<--



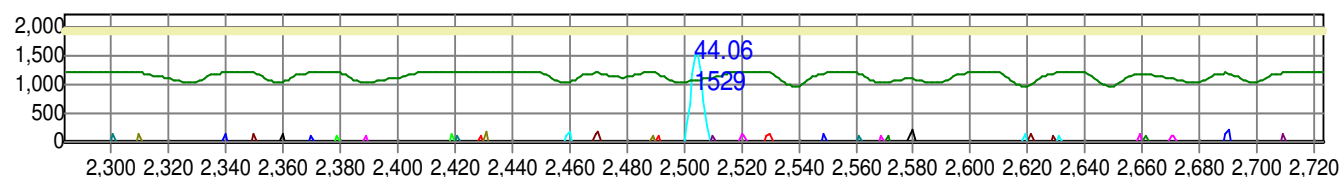
1S--> NOD2_9F_AP0276_F11.ab1-->



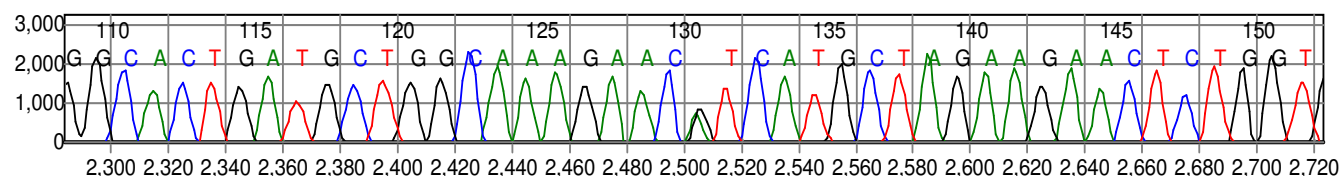
1S--> NOD2_9F_AP0276_F11.ab1 Mutations: 29763G>GA\$78.2



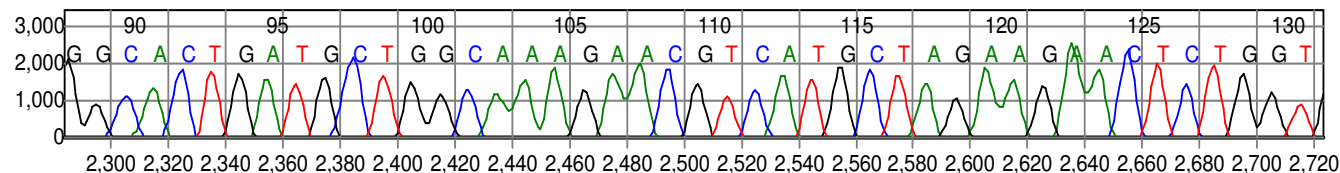
1S<-- NOD2_9R_AP0276_F12.ab1 Mutations: 29763G>GA\$44.1



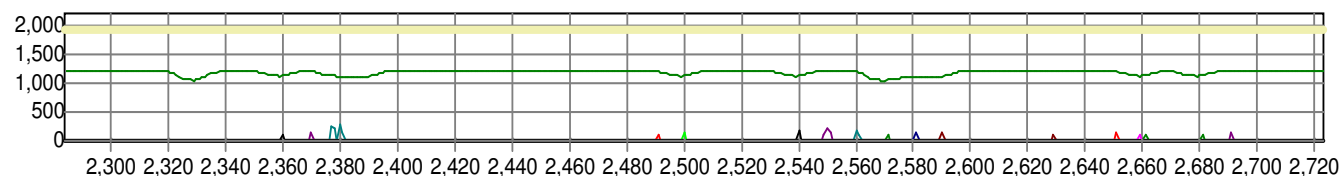
1S<-- NOD2_9R_AP0276_F12.ab1<--



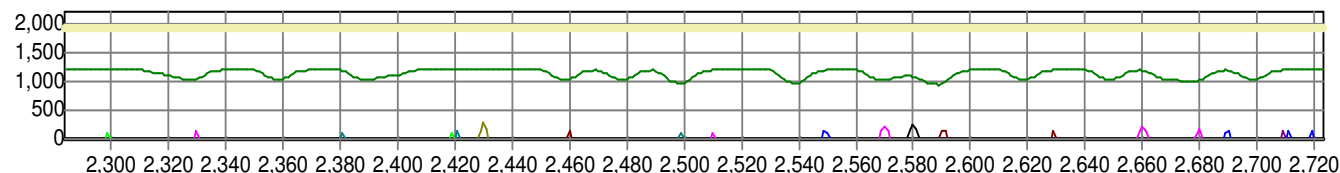
1S--> NOD2_9F_NP0039_C11.ab1-->



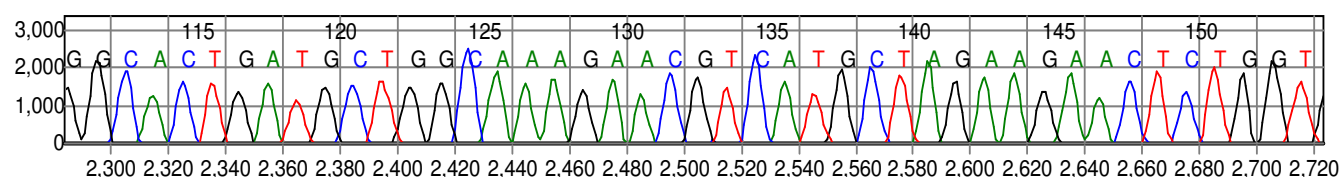
1S--> NOD2_9F_NP0039_C11.ab1



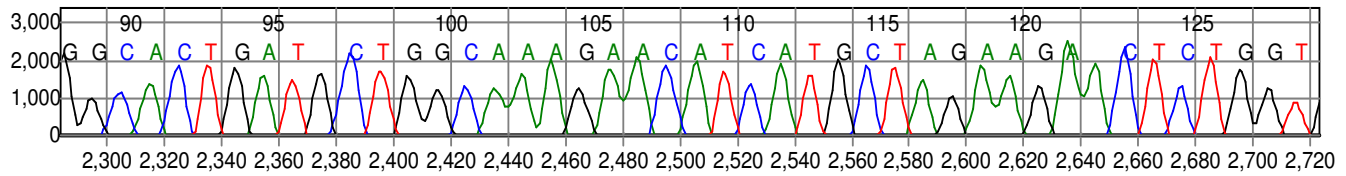
1S<-- NOD2_9R_NP0039_C12.ab1



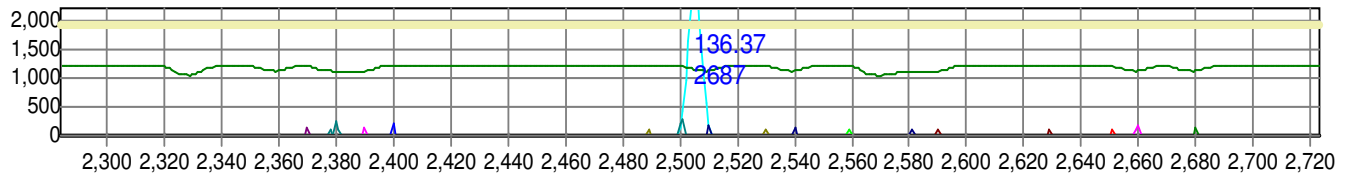
1S<-- NOD2_9R_NP0039_C12.ab1<--



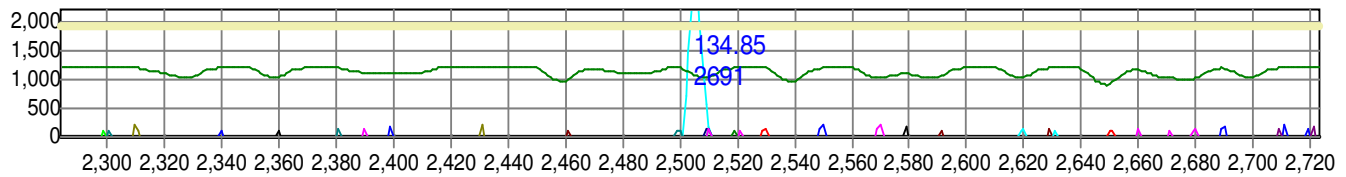
1S--> NOD2_9F_NP0049_E11.ab1-->



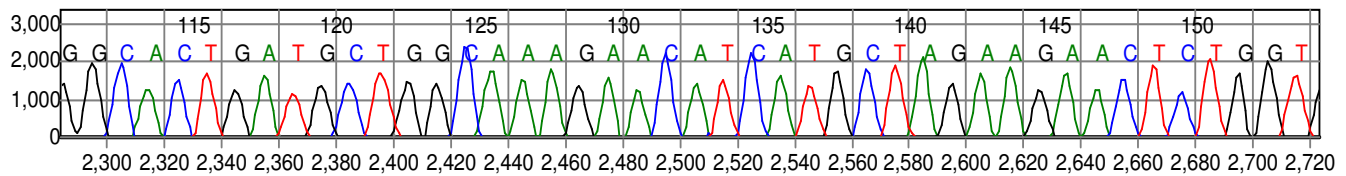
1S--> NOD2_9F_NP0049_E11.ab1 Mutations: 29763G>A\$136.4



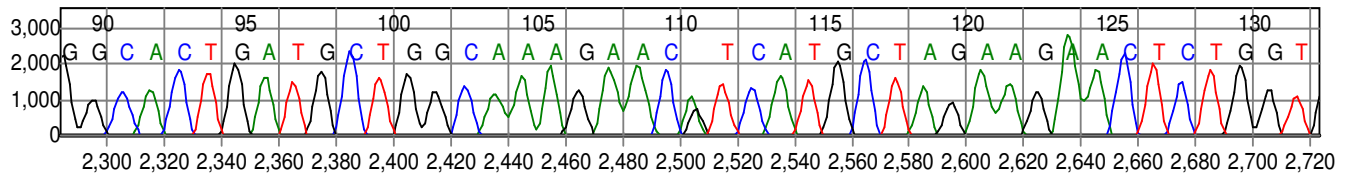
1S<-- NOD2_9R_NP0049_E12.ab1 Mutations: 29763G>A\$134.9



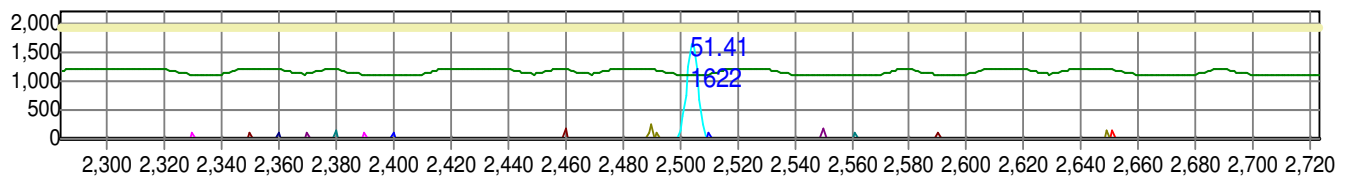
1S<-- NOD2_9R_NP0049_E12.ab1<--



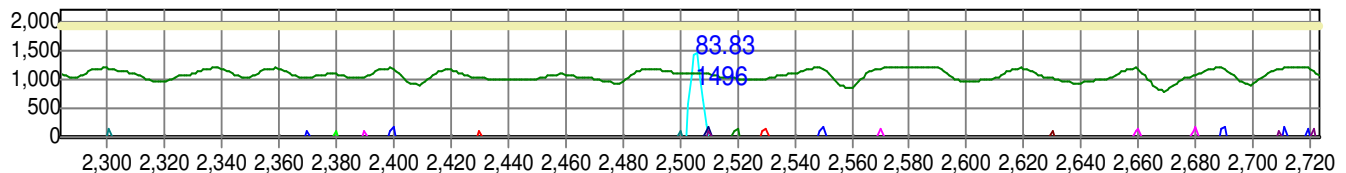
1S--> NOD2_9F_PR0036_B11.ab1-->



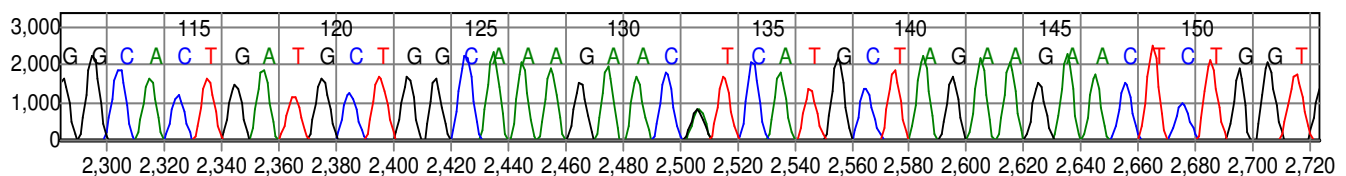
1S--> NOD2_9F_PR0036_B11.ab1 Mutations: 29763G>GA\$51.4



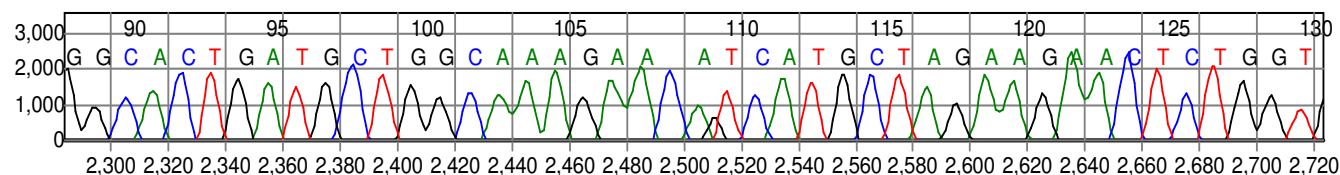
1S<-- NOD2_9R_PR0036_B12.ab1 Mutations: 29763G>GA\$83.8



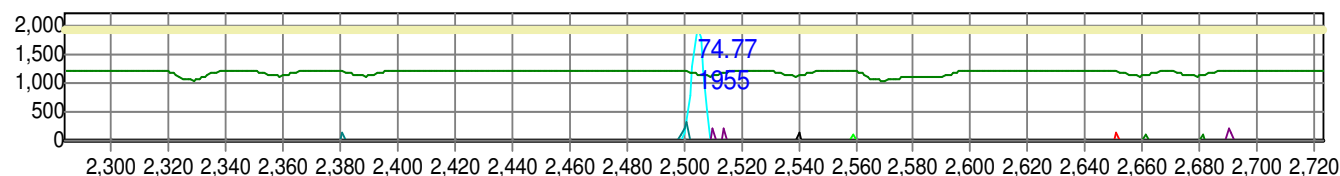
1S<-- NOD2_9R_PR0036_B12.ab1<--



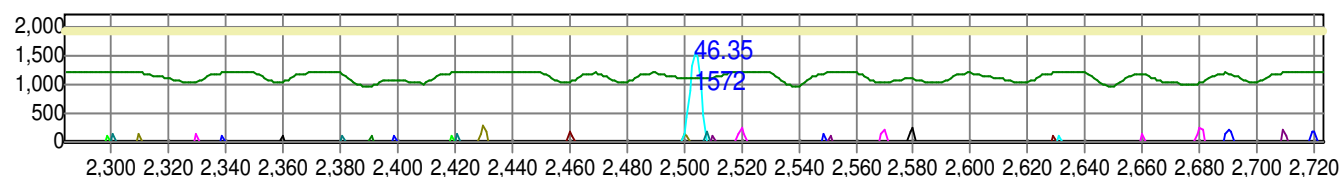
1S--> NOD2_9F_PR0112_H11.ab1-->



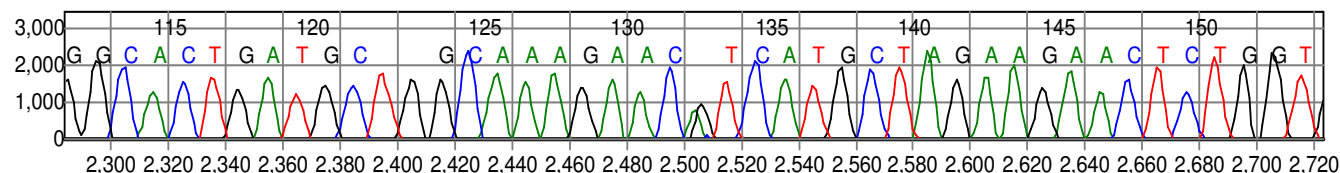
1S--> NOD2_9F_PR0112_H11.ab1 Mutations: 29763G>A\$74.8



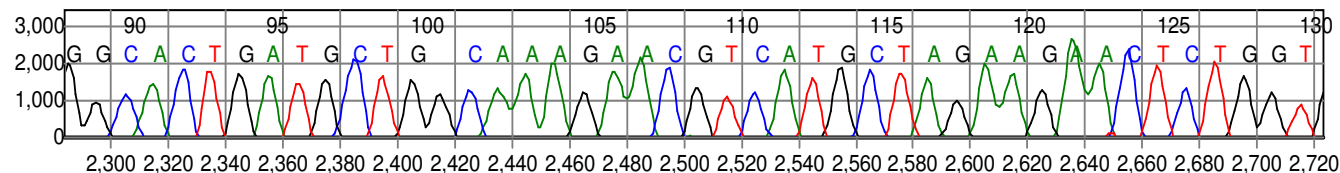
1S<-- NOD2_9R_PR0112_H12.ab1 Mutations: 29763G>GA\$46.4



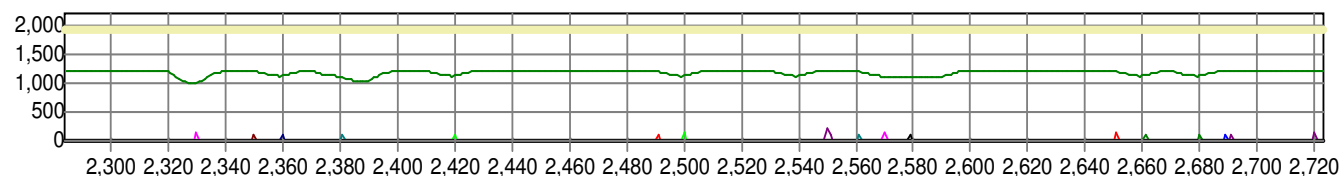
1S<-- NOD2_9R_PR0112_H12.ab1<--



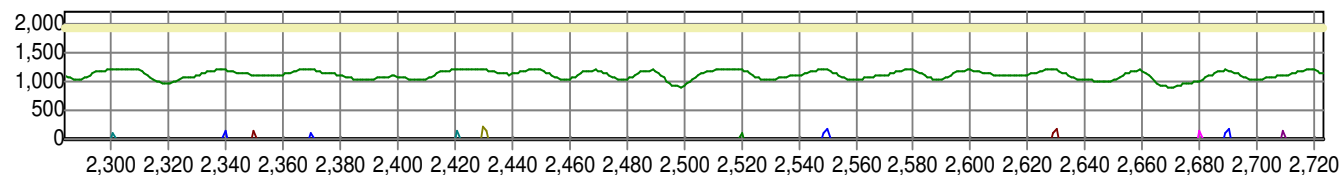
1S--> NOD2_9F_SOAP0337_G11.ab1-->



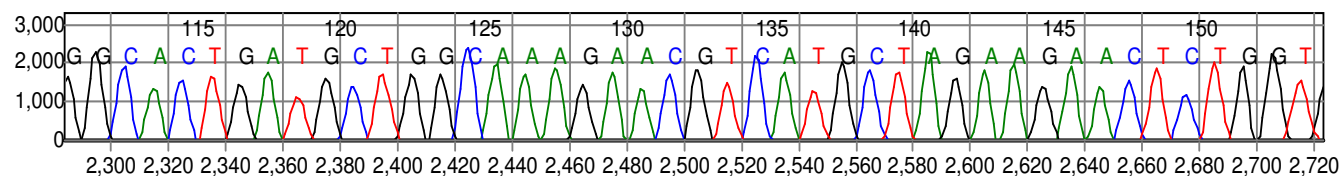
1S--> NOD2_9F_SOAP0337_G11.ab1



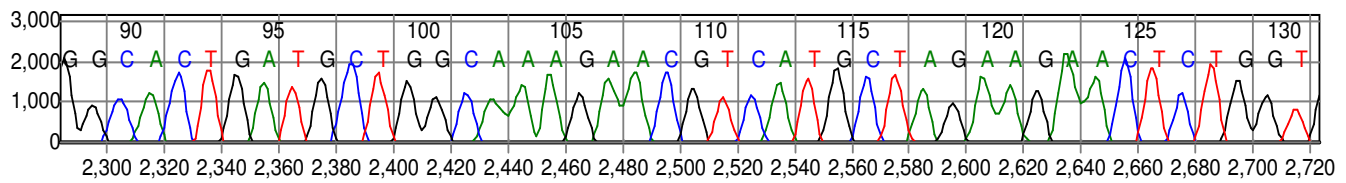
1S<-- NOD2_9R_SOAP0337_G12.ab1



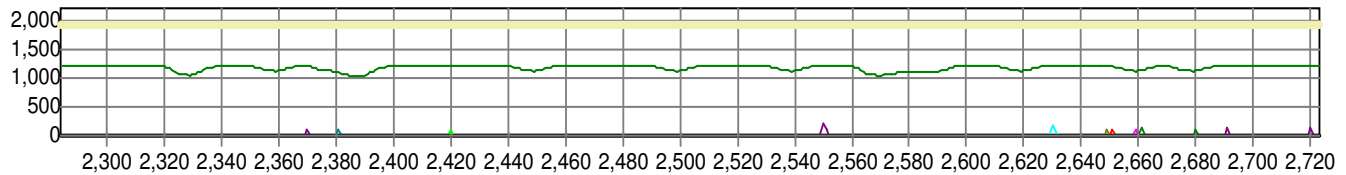
1S<-- NOD2_9R_SOAP0337_G12.ab1<--



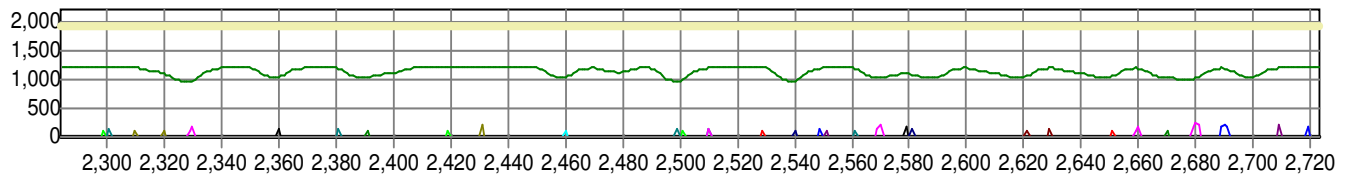
1S--> NOD2_9F_SOAP0433_E09.ab1-->



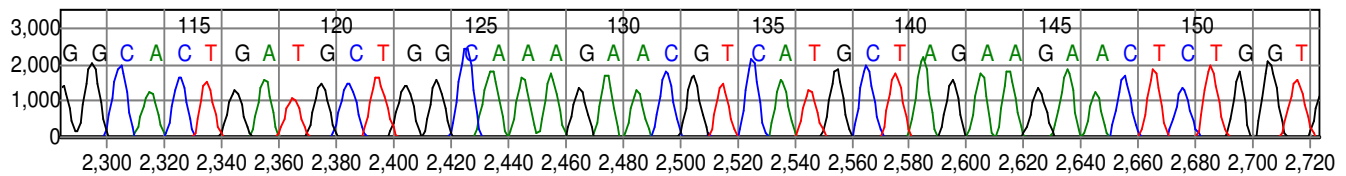
1S--> NOD2_9F_SOAP0433_E09.ab1



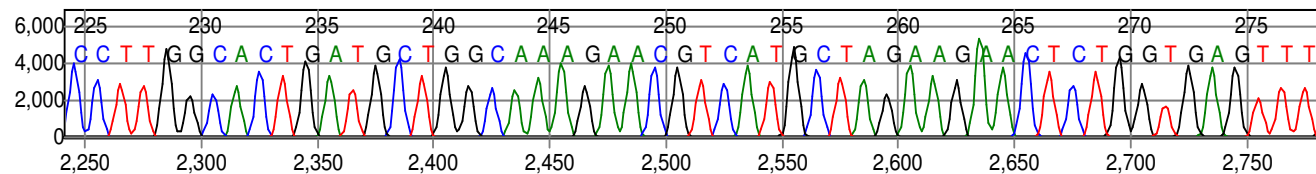
1S<-- NOD2_9R_SOAP0433_E10.ab1



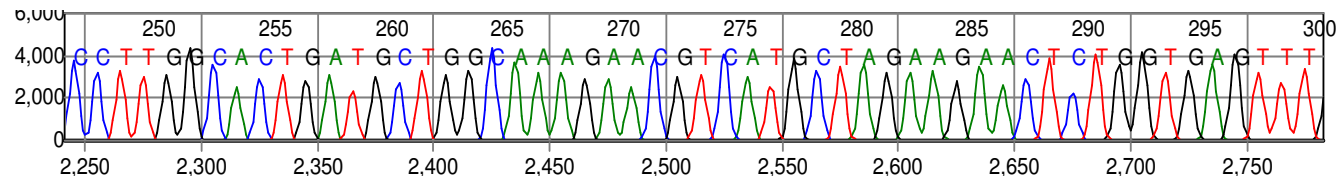
1S<-- NOD2_9R_SOAP0433_E10.ab1<--



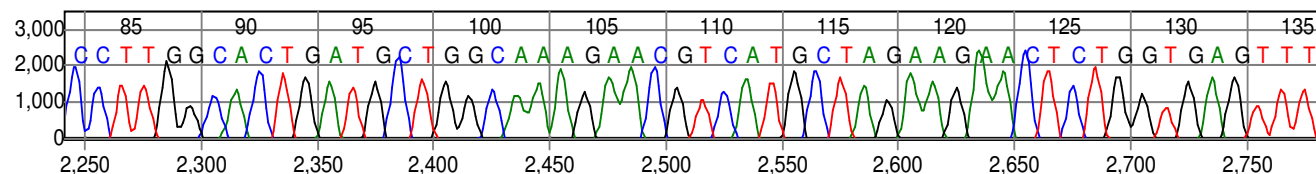
1R--> NOD2_F_Synthesis_29739.scf-->



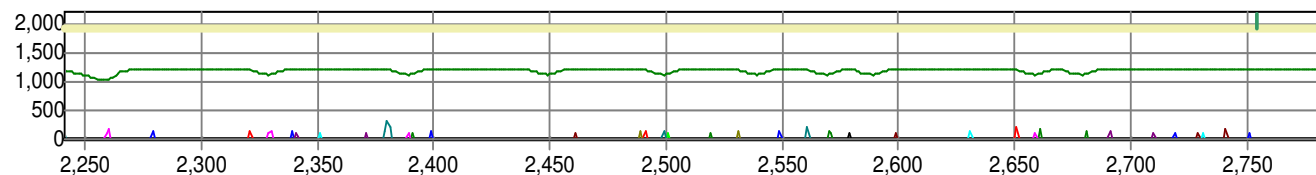
1R<-- NOD2_R_Synthesis_29739.scf<--



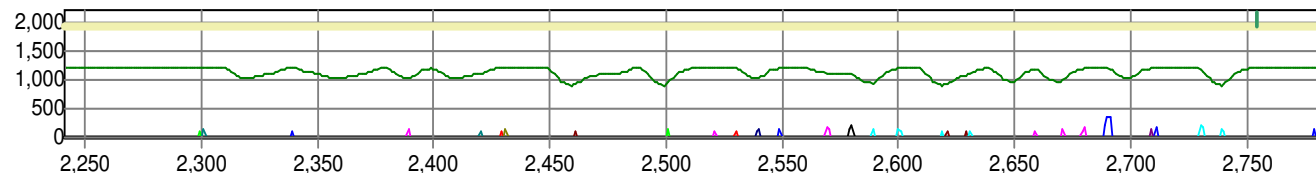
1S--> NOD2_9F_AP0181_D11.ab1-->



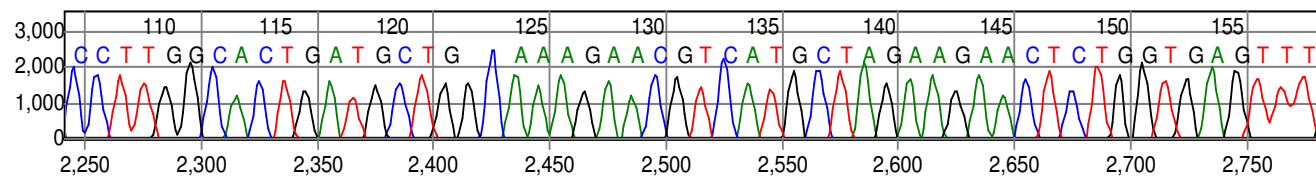
1S--> NOD2_9F_AP0181_D11.ab1



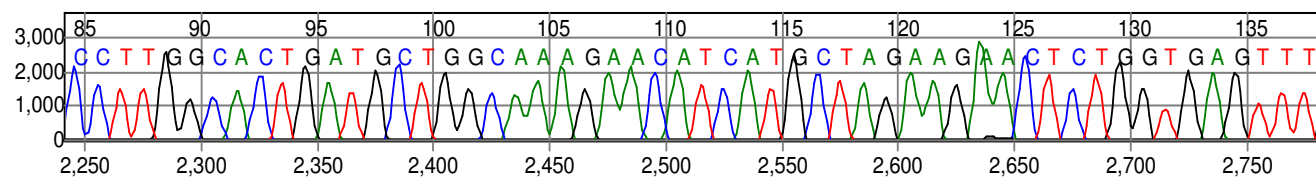
1S<-- NOD2_9R_AP0181_D12.ab1



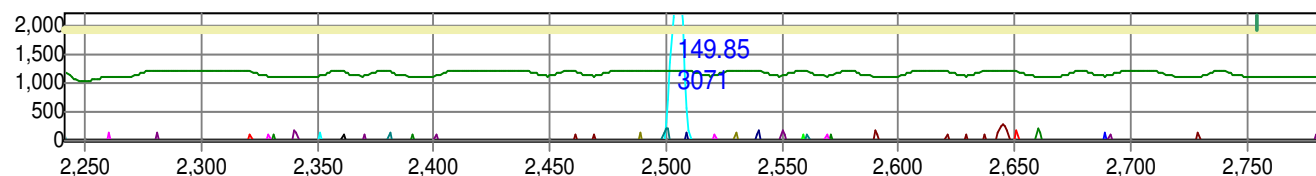
1S<-- NOD2_9R_AP0181_D12.ab1<--



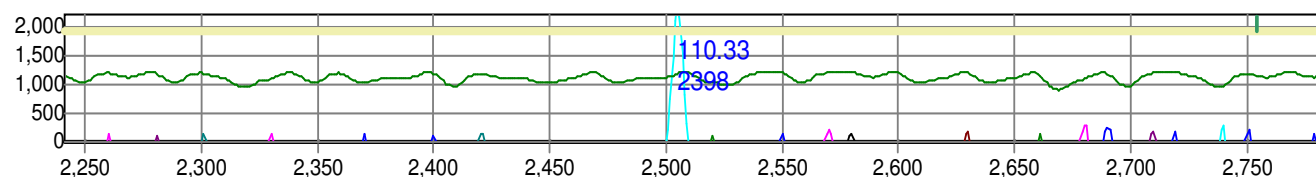
1S--> NOD2_9F_NP0049_D09.ab1-->



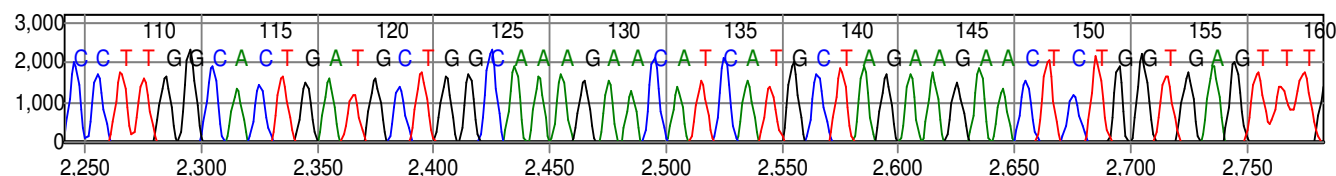
1S--> NOD2_9F_NP0049_D09.ab1 Mutations: 29763G>A\$149.9



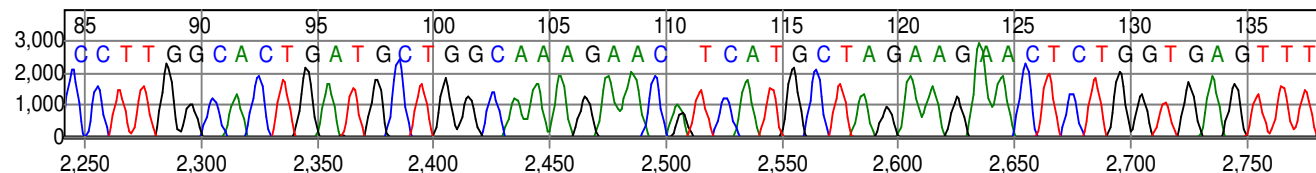
1S<-- NOD2_9R_NP0049_D10.ab1 Mutations: 29763G>A\$110.3



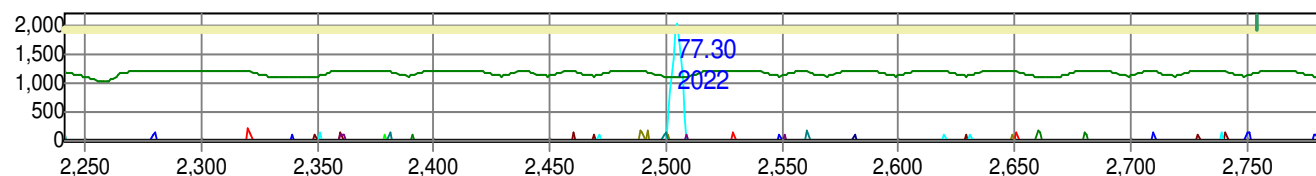
1S<-- NOD2_9R_NP0049_D10.ab1<--



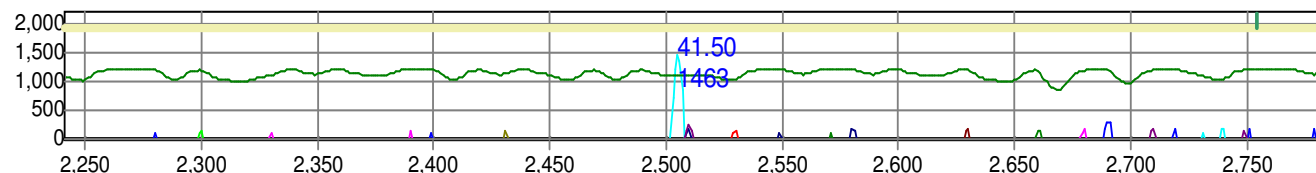
1S--> NOD2_9F_PR0143_C01.ab1-->



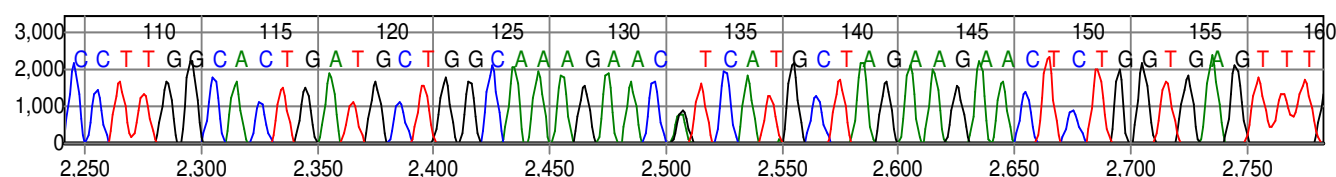
1S--> NOD2_9F_PR0143_C01.ab1 Mutations: 29763G>GA\$77.3



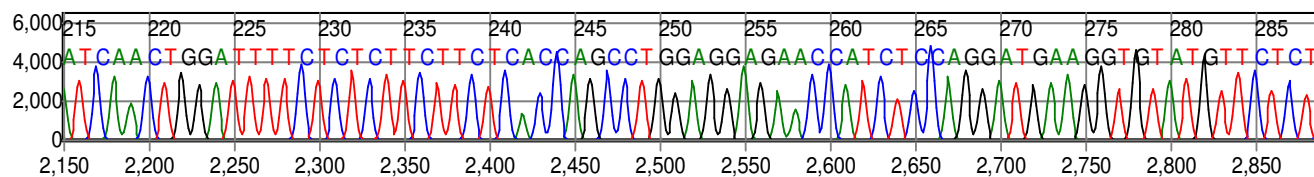
1S<-- NOD2_9R_PR0143_C02.ab1 Mutations: 29763G>GA\$41.5



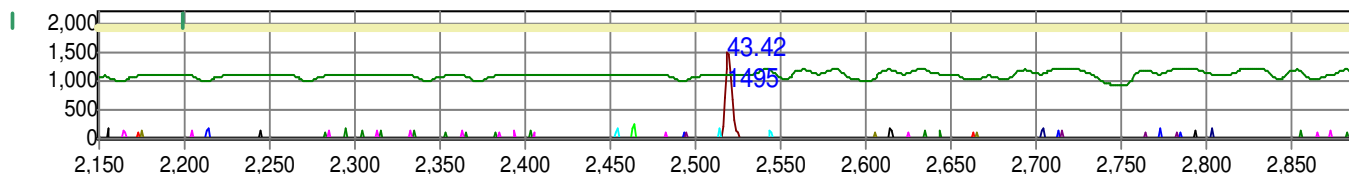
1S<-- NOD2_9R_PR0143_C02.ab1<--



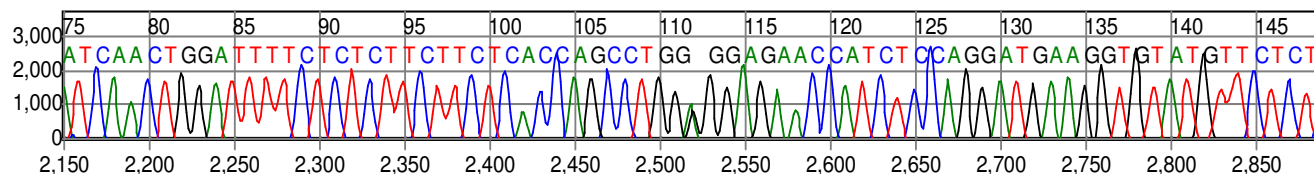
1R<-- NOD2_R_Synthesis_31876.scf<--



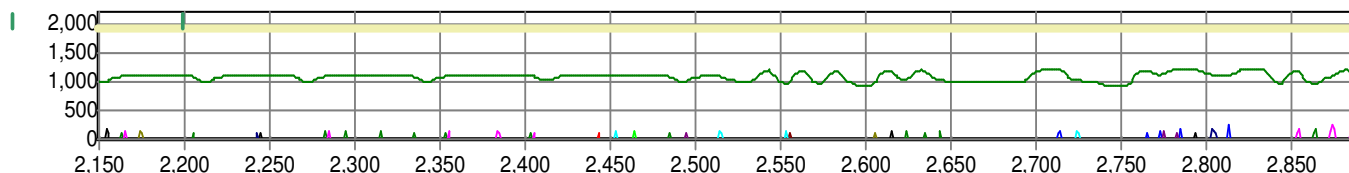
1S<-- NOD2_10R_AP0266_G10.ab1 Mutations: 31892A>AG\$43.4



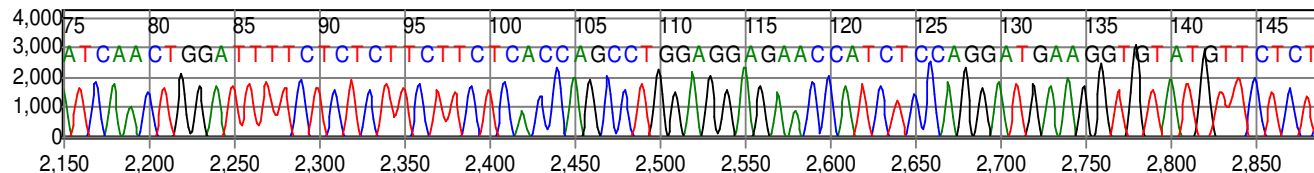
1S<-- NOD2_10R_AP0266_G10.ab1<--



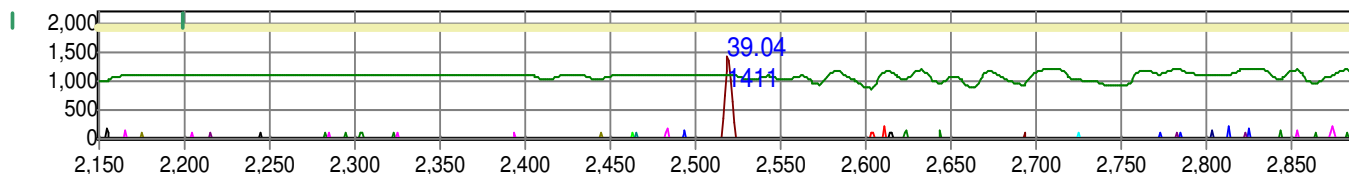
1S<-- NOD2_10R_AP0267_H10.ab1



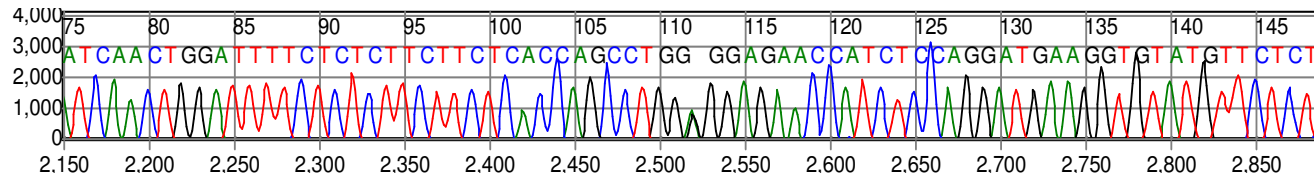
1S<-- NOD2_10R_AP0267_H10.ab1<--



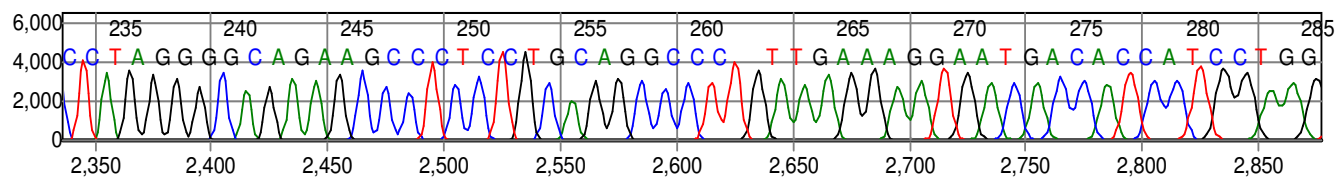
1S<-- NOD2_10R_PR0208_F12.ab1 Mutations: 31892A>AG\$39.0



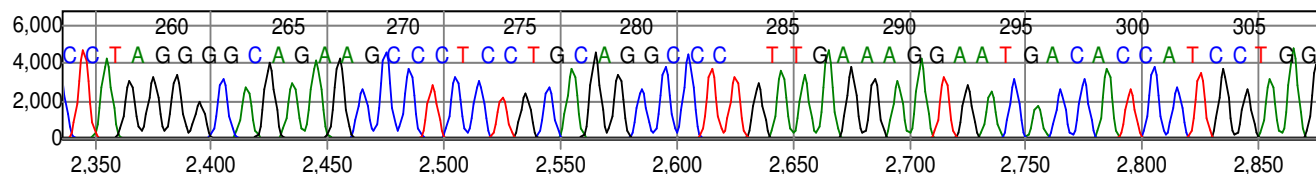
1S<-- NOD2_10R_PR0208_F12.ab1<--



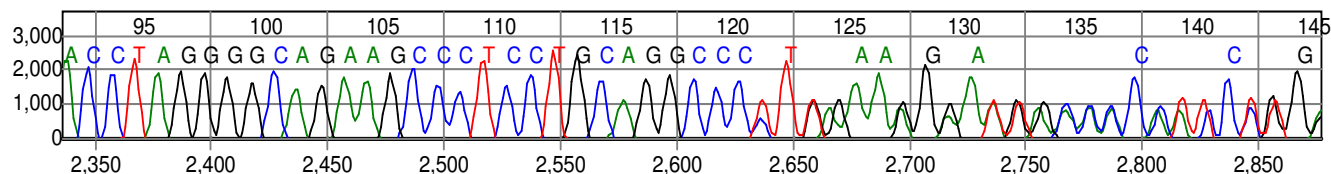
1R--> NOD2_F_Synthesis_36265.scf-->



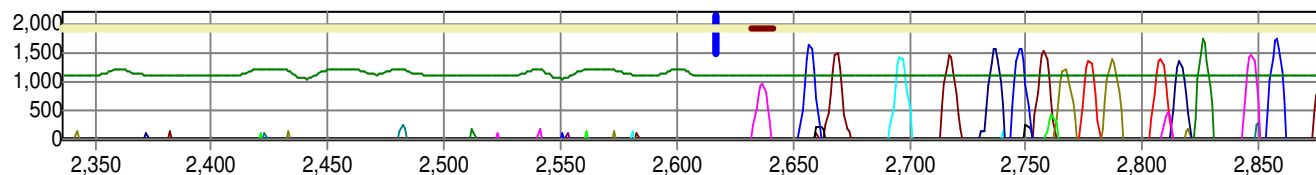
1R<-- NOD2_R_Synthesis_36265.scf<--



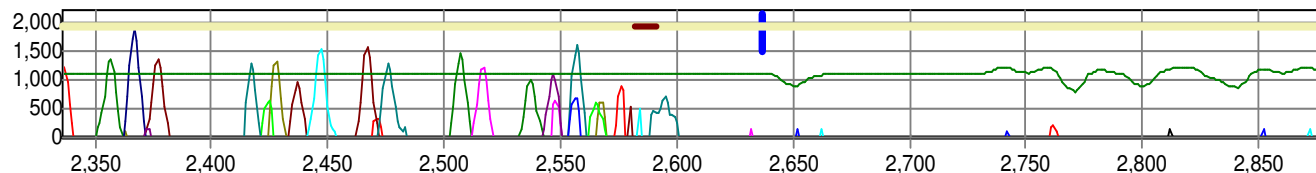
1S--> NOD2_11F_AP0192_E01.ab1-->



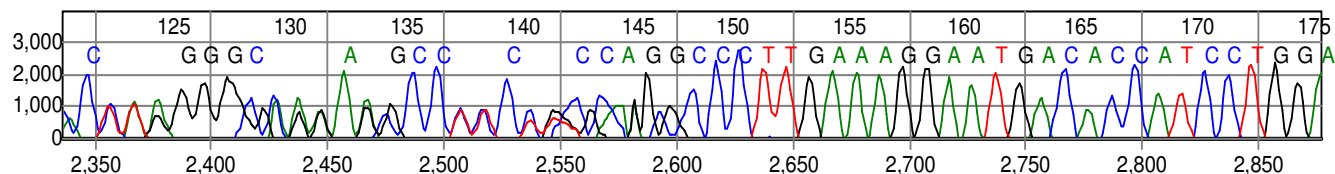
1S--> NOD2_11F_AP0192_E01.ab1 Mutations: 36269_36268het_dup



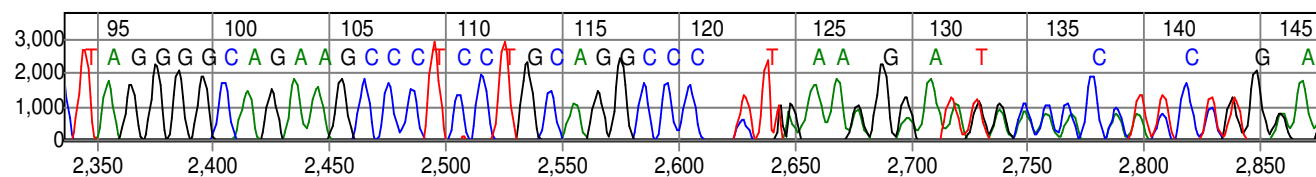
1S<-- NOD2_11R_AP0192_E02.ab1 Mutations: 36265_36264het_dup



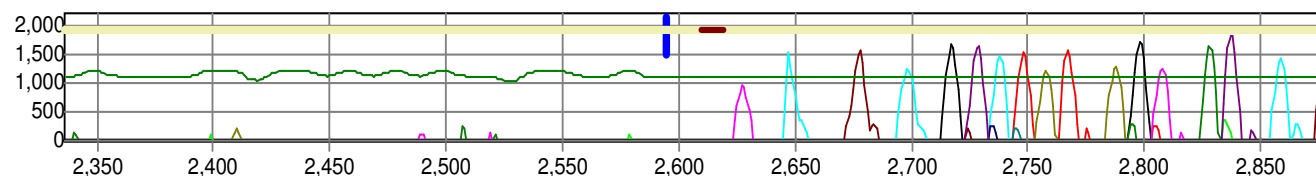
1S<-- NOD2_11R_AP0192_E02.ab1<--



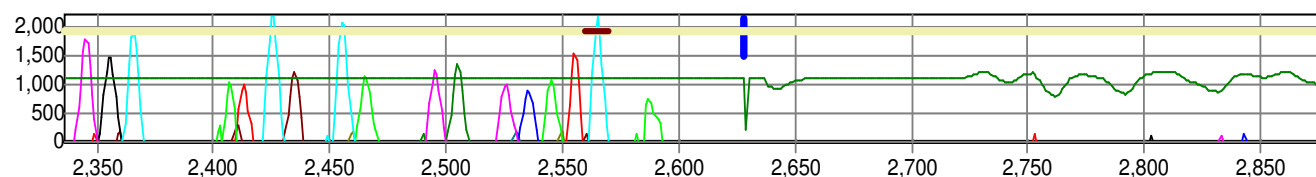
1S--> NOD2_11F_PR0152_H11.ab1-->



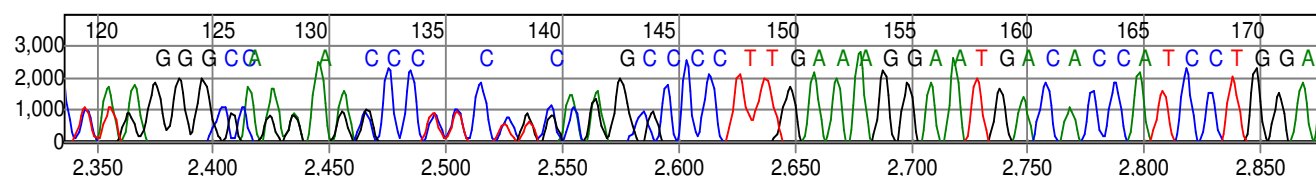
1S--> NOD2_11F_PR0152_H11.ab1 Mutations: 36268_36267het_dup



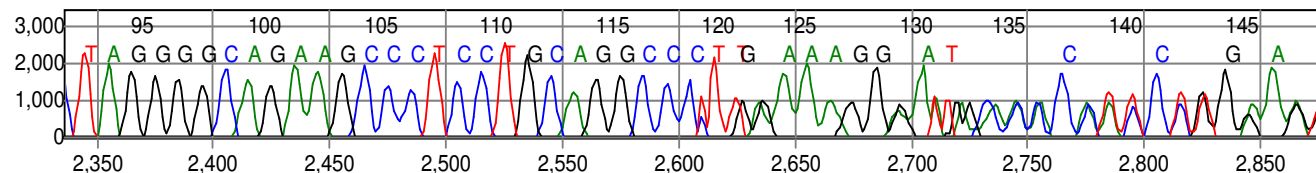
1S<-- NOD2_11R_PR0152_H12.ab1 Mutations: 36264_36265het_ins



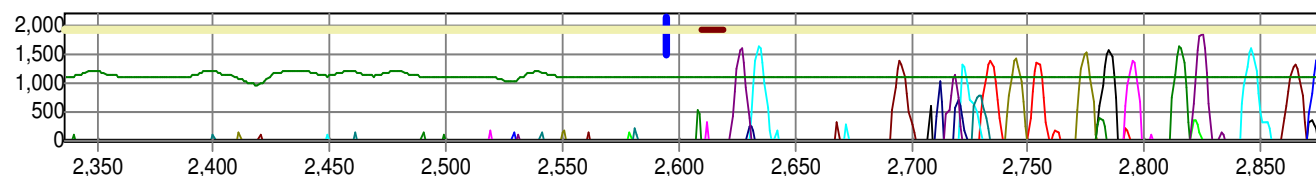
1S<-- NOD2_11R_PR0152_H12.ab1<--



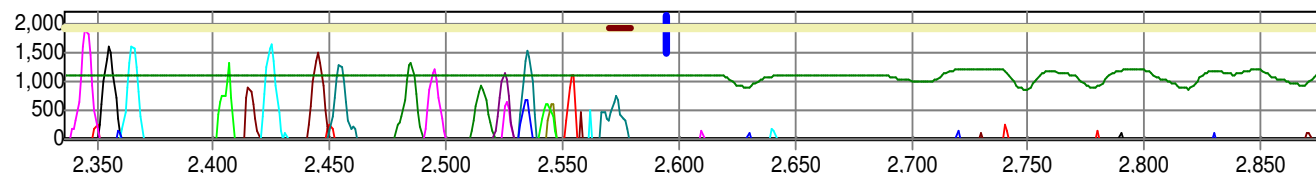
1S--> NOD2_11F_SOAP0494_F01.ab1-->



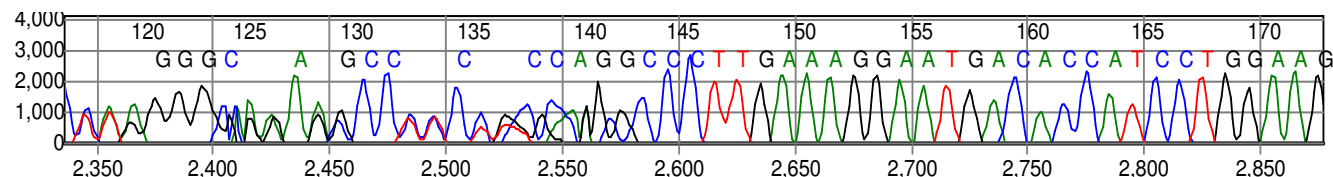
1S--> NOD2_11F_SOAP0494_F01.ab1 Mutations: 36269_36268het_dup



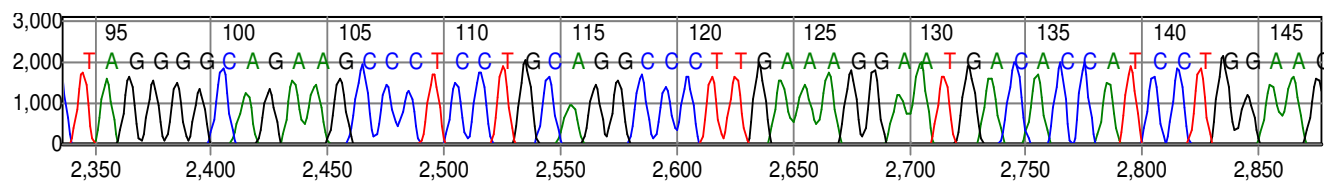
1S<-- NOD2_11R_SOAP0494_F02.ab1 Mutations: 36266_36265het_dup



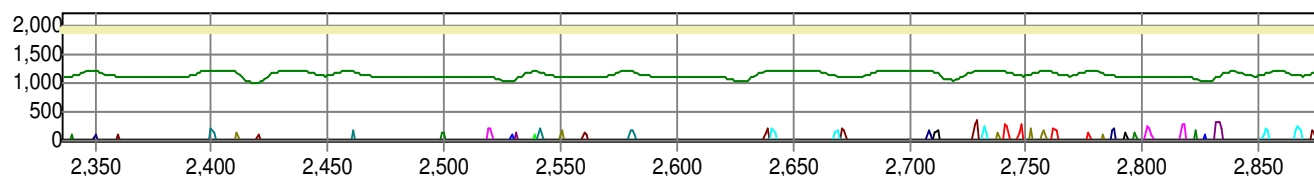
1S<-- NOD2_11R_SOAP0494_F02.ab1<--



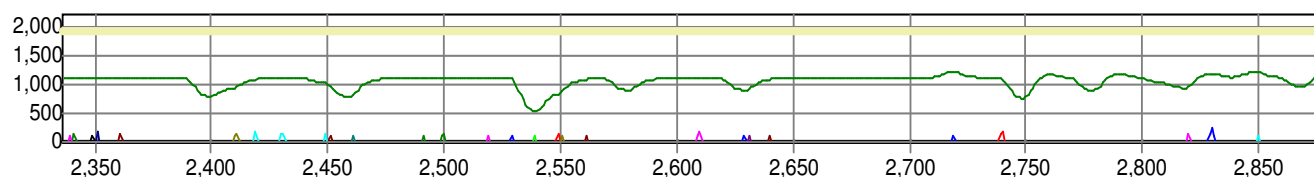
1S--> NOD2_11F_SONP0144_G01.ab1-->



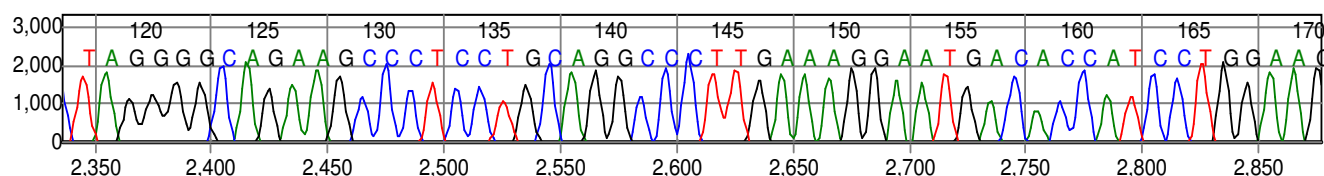
1S--> NOD2_11F_SONP0144_G01.ab1



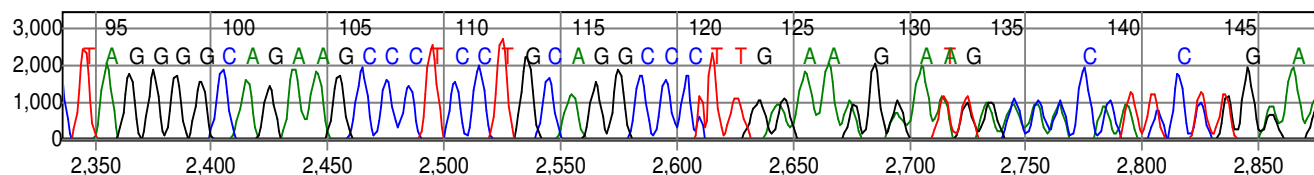
1S<-- NOD2_11R_SONP0144_G02.ab1



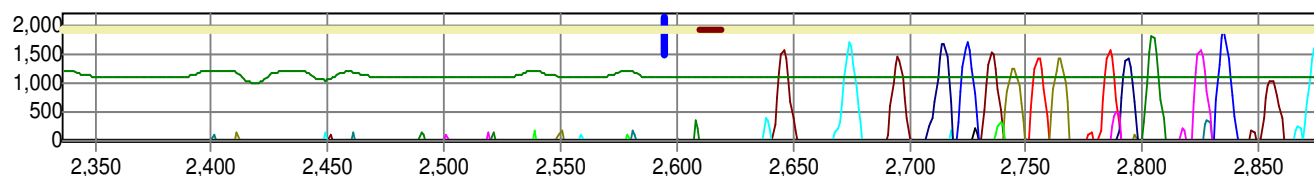
1S<-- NOD2_11R_SONP0144_G02.ab1<--



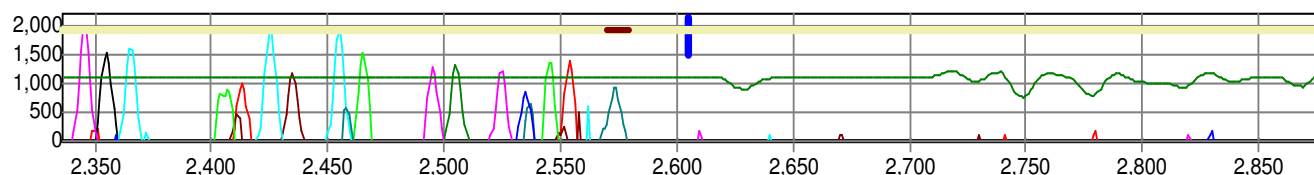
1S--> NOD2_11F_SOPR0410_H01.ab1-->



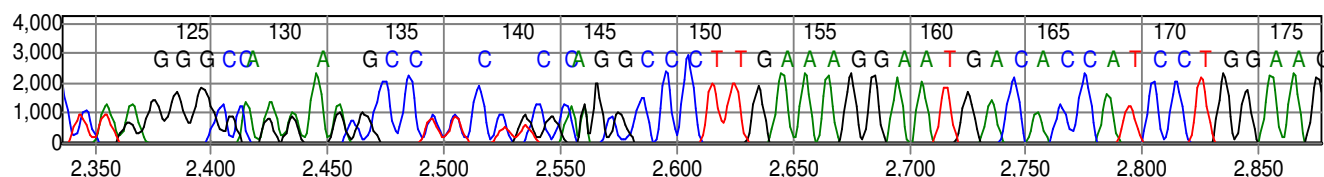
1S--> NOD2_11F_SOPR0410_H01.ab1 Mutations: 36269_36268het_dup



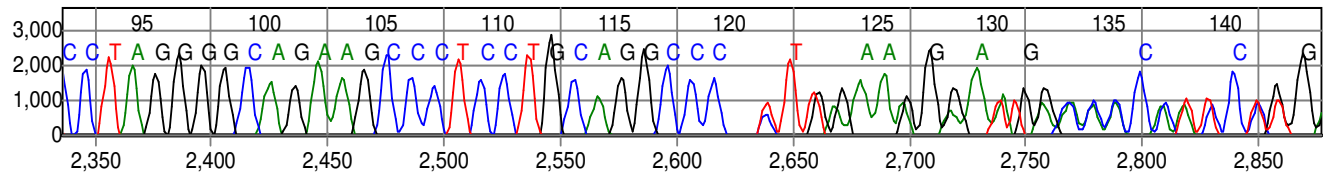
1S<-- NOD2_11R_SOPR0410_H02.ab1 Mutations: 36265_36266het_ins



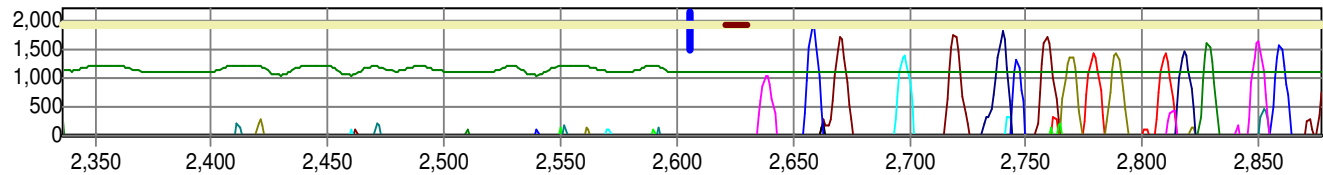
1S<-- NOD2_11R_SOPR0410_H02.ab1<--



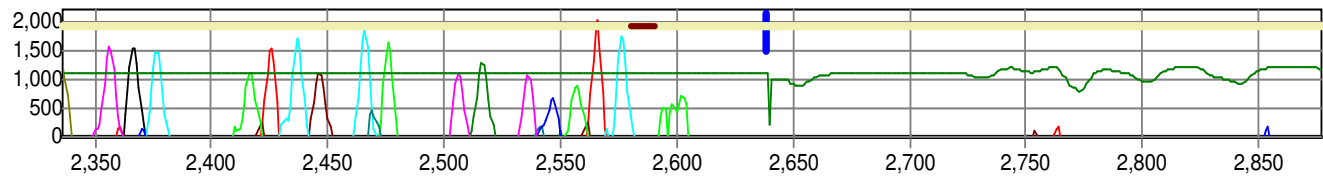
1S--> NOD2_11F_SOPR0429_G11.ab1-->



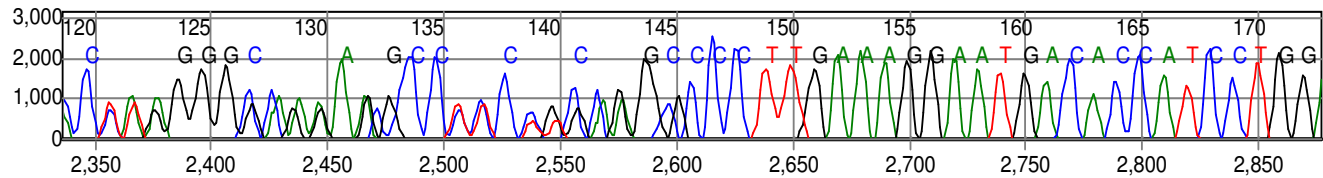
1S--> NOD2_11F_SOPR0429_G11.ab1 Mutations: 36268_36267het_dup



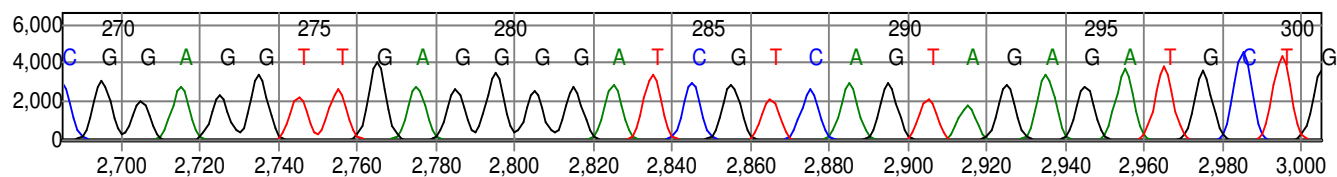
1S<-- NOD2_11R_SOPR0429_G12.ab1 Mutations: 36265_36266het_ins



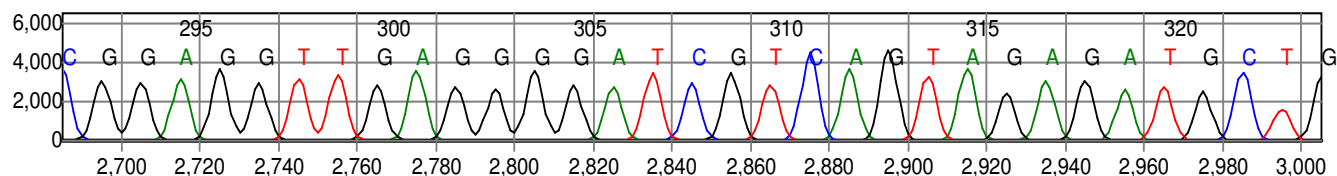
1S<-- NOD2_11R_SOPR0429_G12.ab1<--



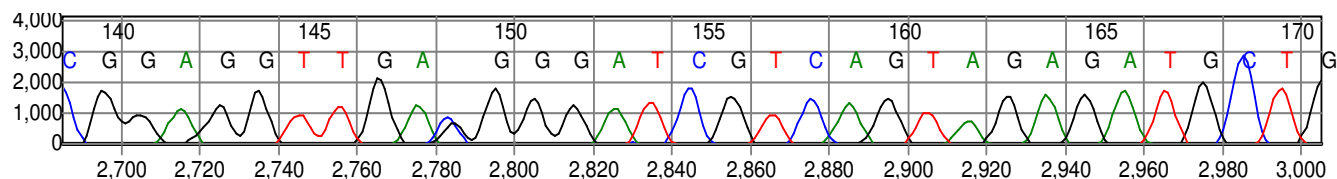
1R--> TRIM22_e4_F_Synthesis_373.scf-->



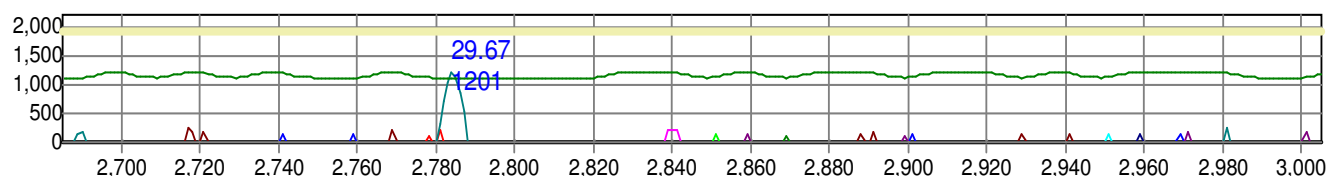
1R<-- TRIM22_e4_R_Synthesis_373.scf<--



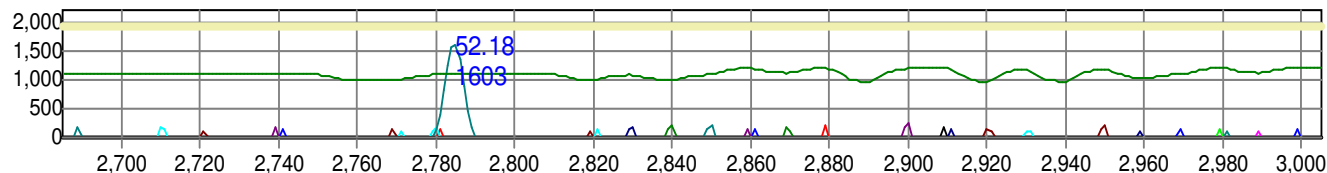
1S--> TRIM22_4F_Normal_A11.ab1-->



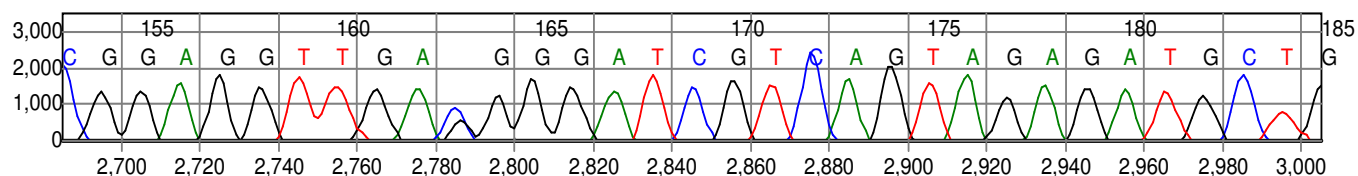
1S--> TRIM22_4F_Normal_A11.ab1 Mutations: 386G>GC\$29.7



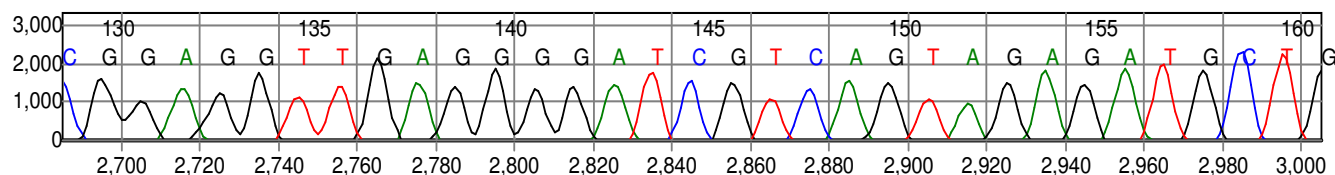
1S<-- TRIM22_4R_Normal_A12.ab1 Mutations: 386G>GC\$52.2



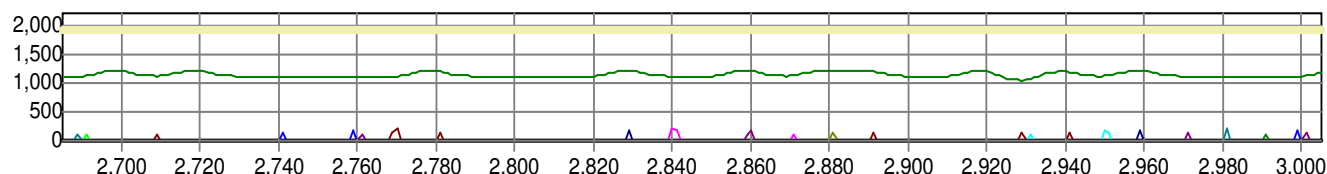
1S<-- TRIM22_4R_Normal_A12.ab1<--



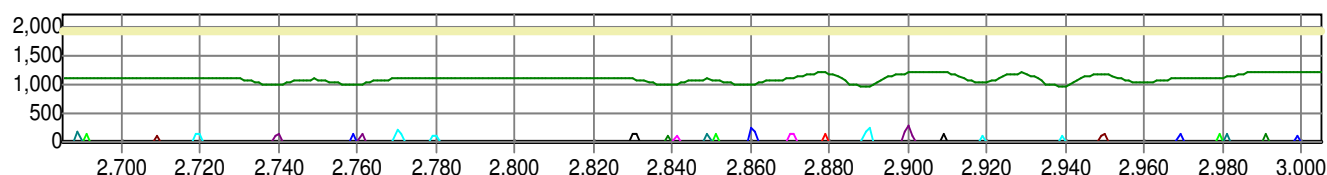
1S--> TRIM22_4F_SOAP0308_D03.ab1-->



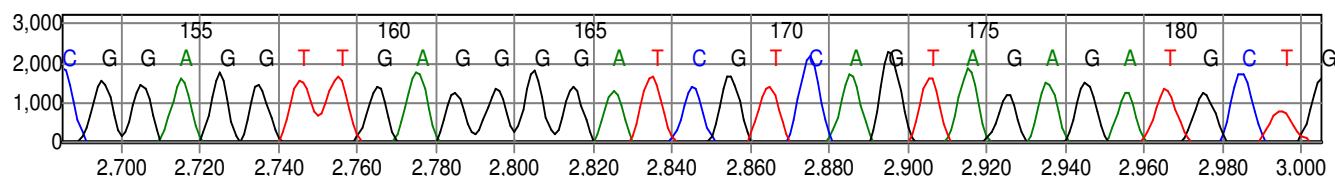
1S--> TRIM22_4F_SOAP0308_D03.ab1



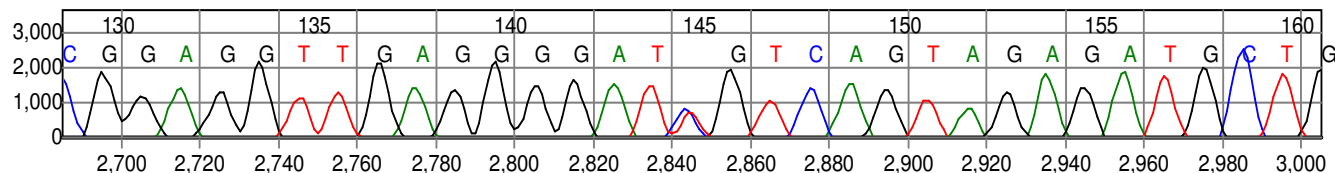
1S<-- TRIM22_4R_SOAP0308_D04.ab1



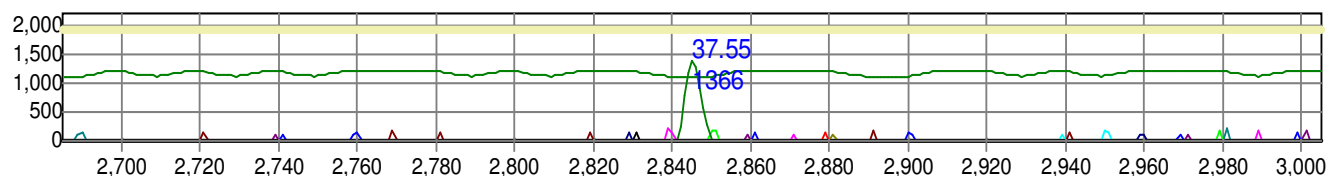
1S<-- TRIM22_4R_SOAP0308_D04.ab1<--



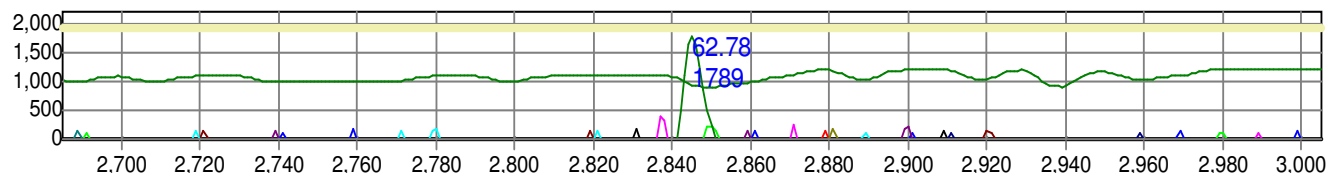
1S--> TRIM22_4F_SOPR0247_F11.ab1-->



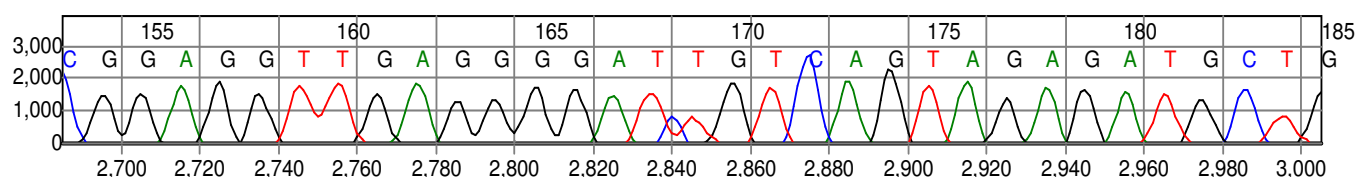
1S--> TRIM22_4F_SOPR0247_F11.ab1 Mutations: 392C>CT\$37.5



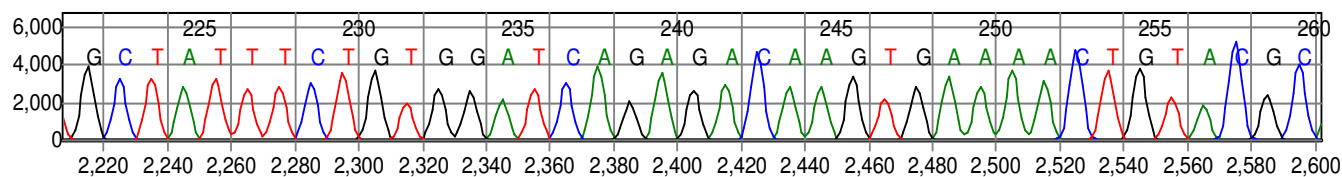
1S<-- TRIM22_4R_SOPR0247_F12.ab1 Mutations: 392C>CT\$62.8



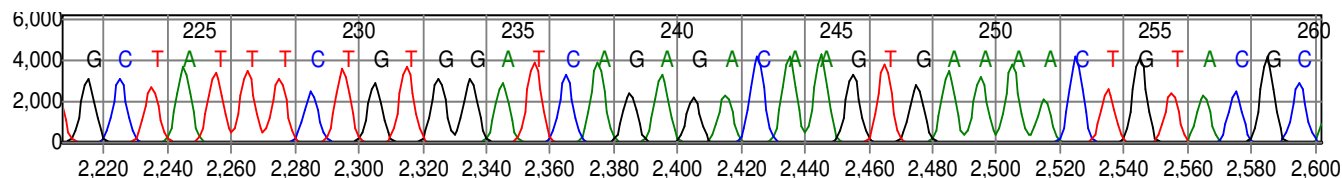
1S<-- TRIM22_4R_SOPR0247_F12.ab1<--



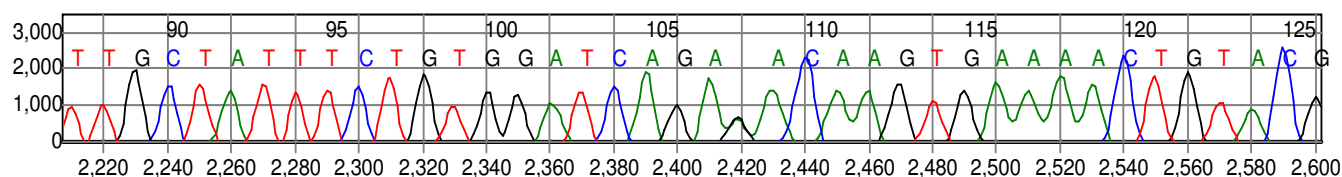
1R--> TRIM22_e8_F_Synthesis_287.scf-->



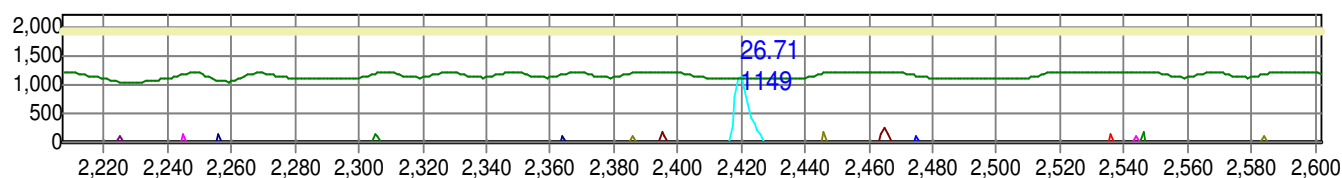
1R<-- TRIM22_e8_R_Synthesis_240.scf<--



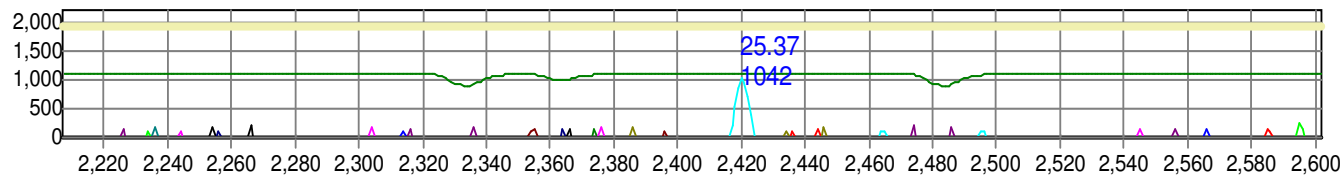
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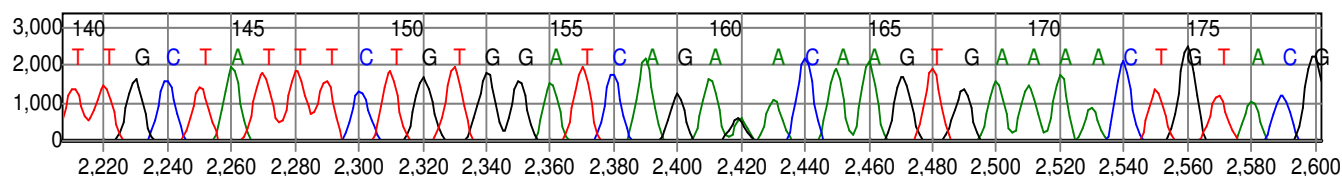
1S--> TRIM22_8aF_AP0009_A01.ab1 Mutations: 241G>GA\$26.7



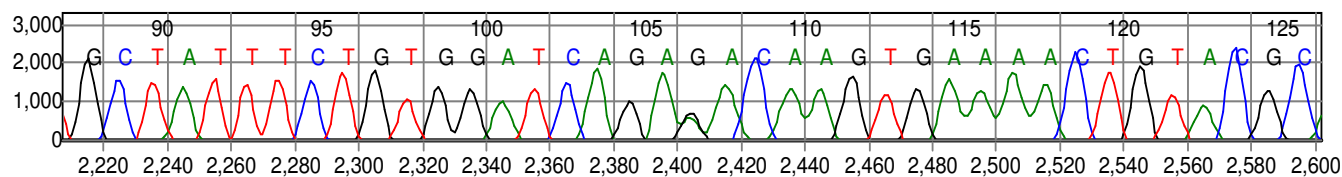
1S<-- TRIM22_8aR_AP0009_A02.ab1 Mutations: 241G>GA\$25.4



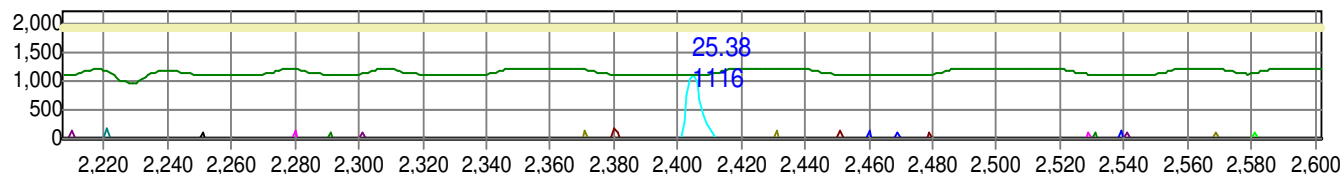
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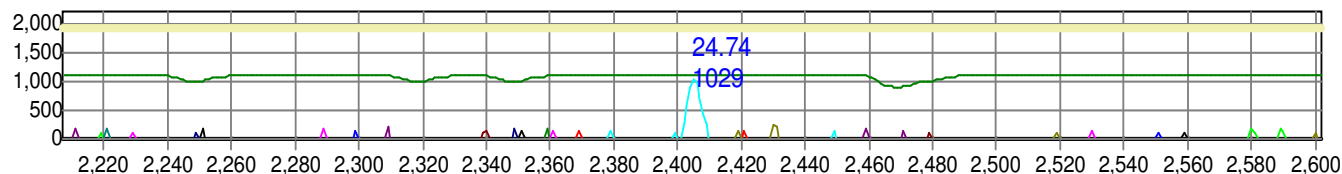
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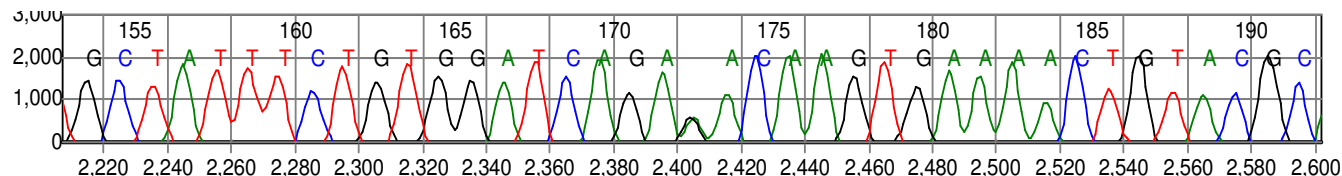
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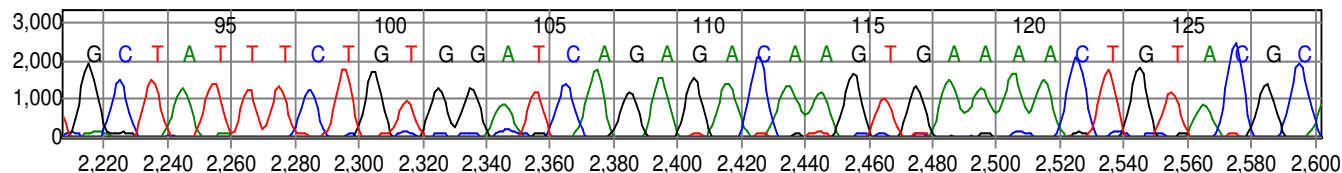
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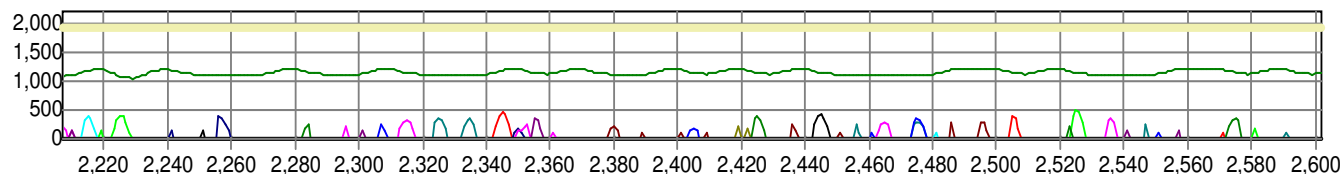
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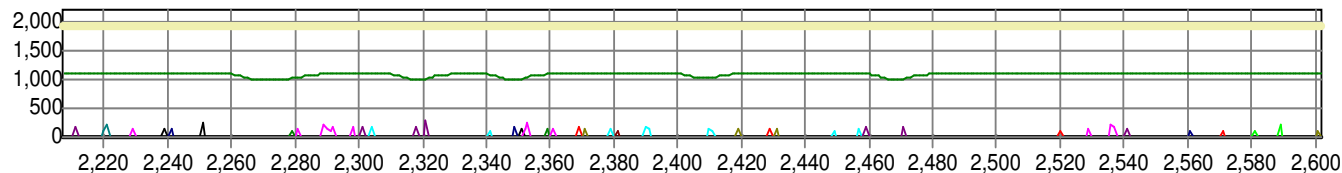
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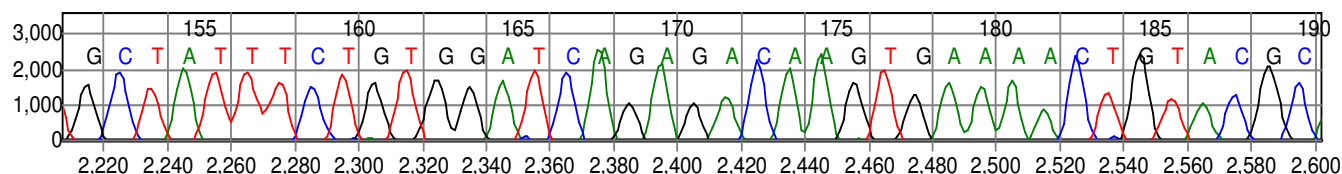
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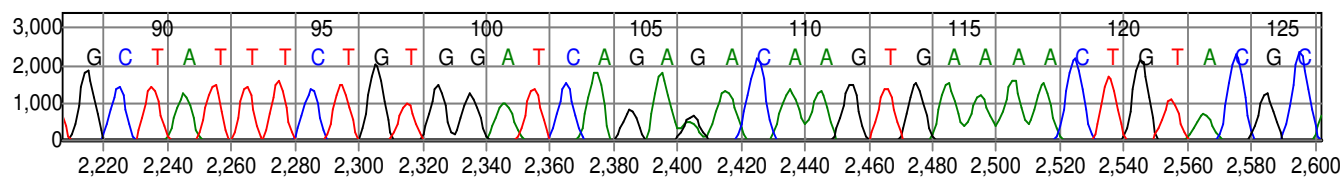
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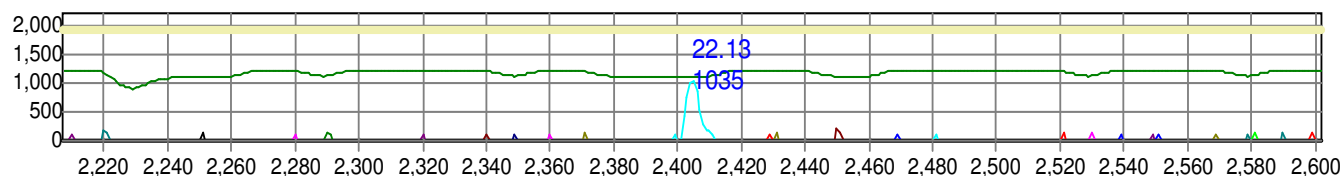
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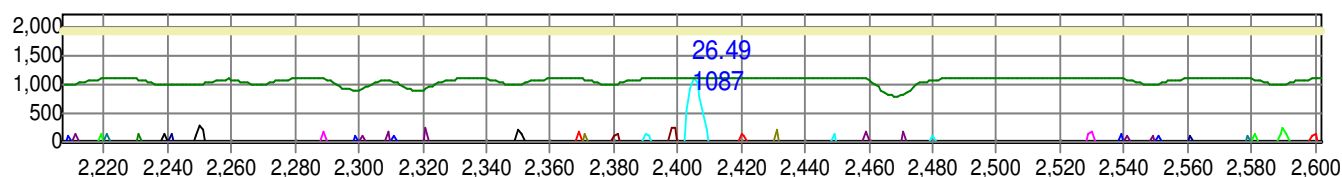
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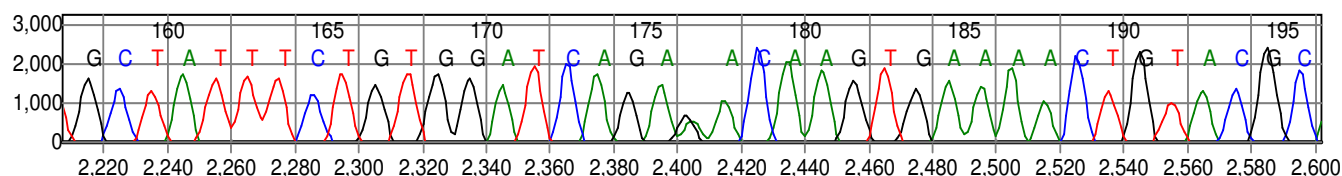
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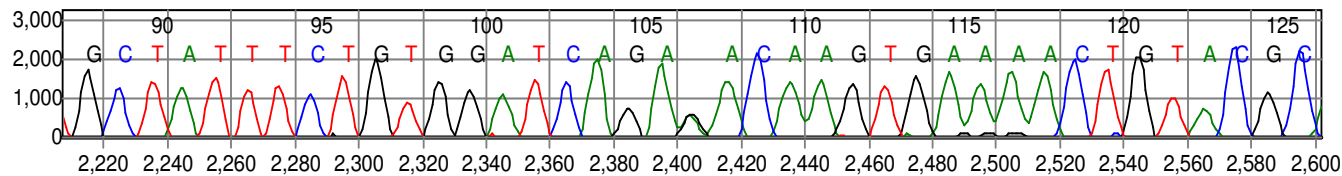
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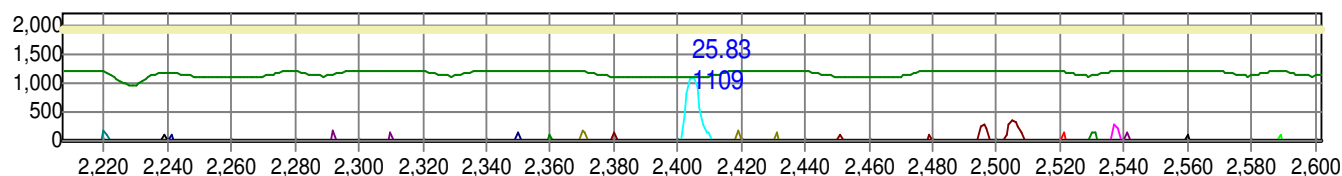
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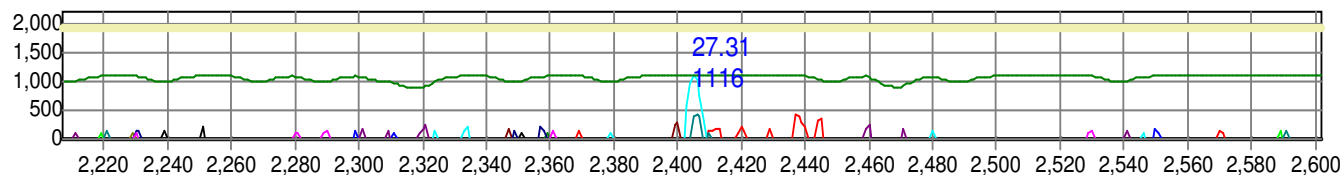
1S--> TRIM22_8aF_PR0111_E09.ab1-->



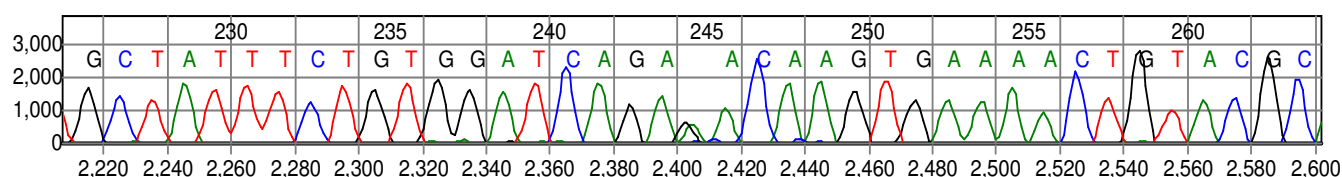
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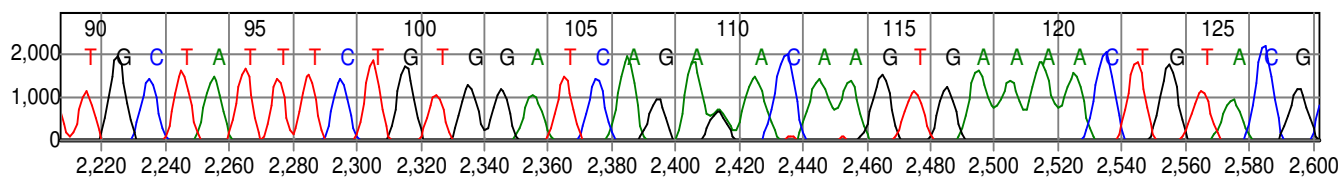
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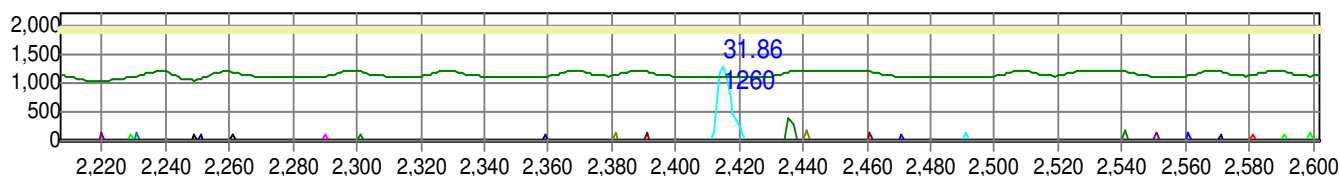
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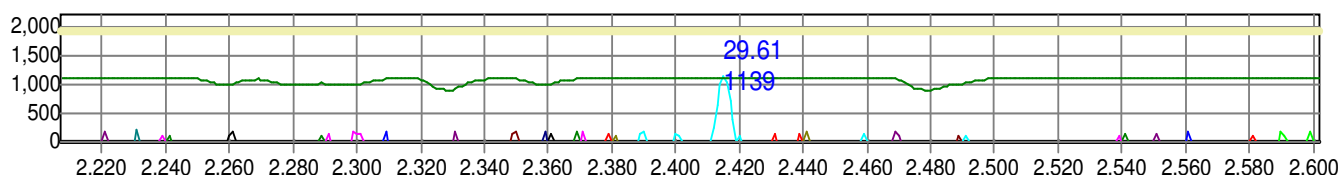
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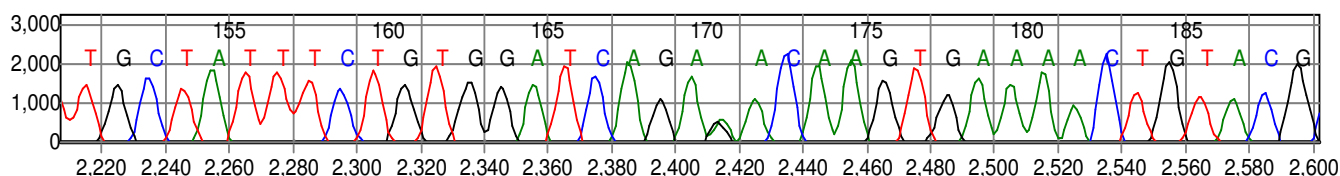
1S--> TRIM22_8aF_SOAP0308_D01.ab1 Mutations: 241G>GA\$31.9



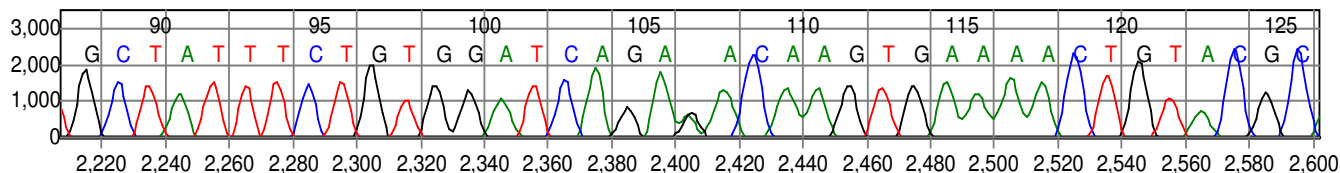
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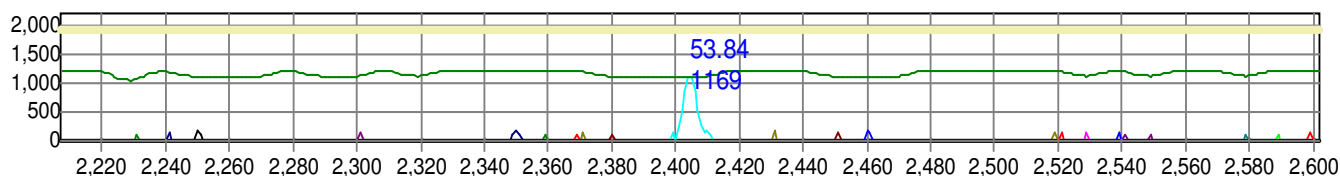
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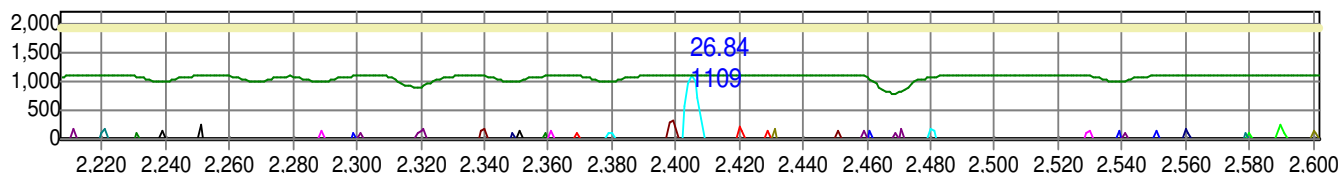
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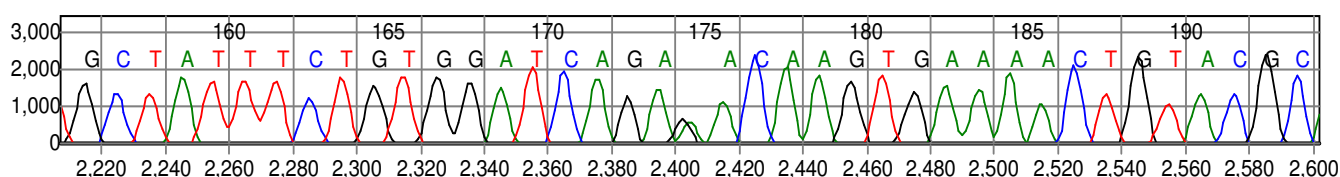
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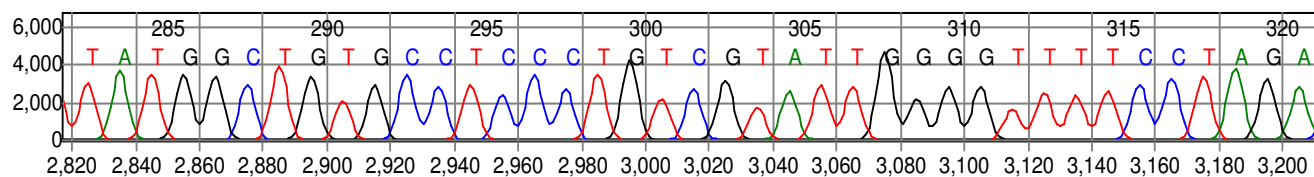
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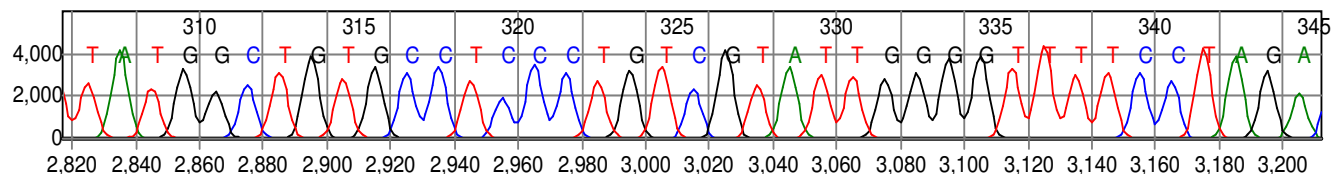
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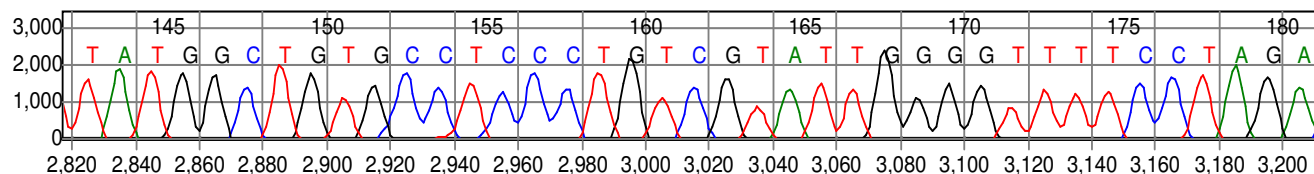
1R--> TRIM22_e8_F_Synthesis_625.scf-->



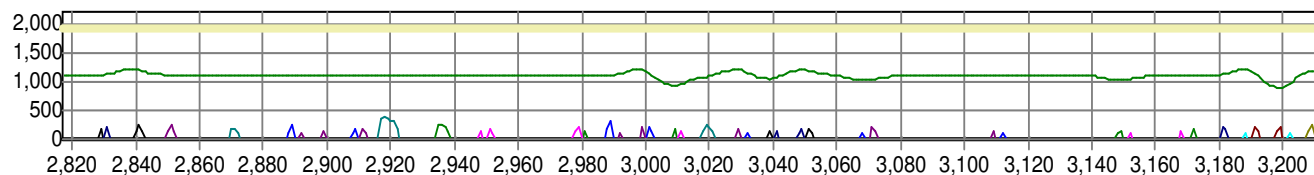
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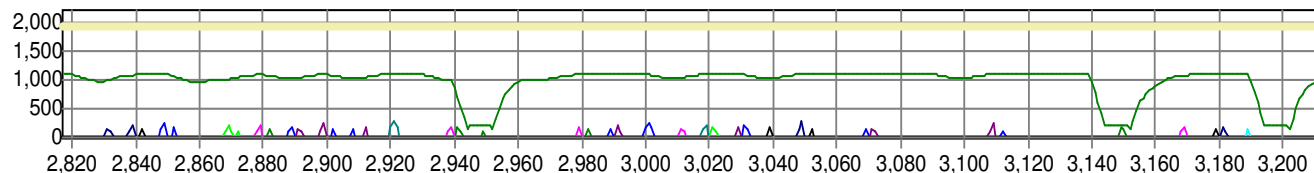
1S--> TRIM22_8cF_AP0009_A03.ab1-->



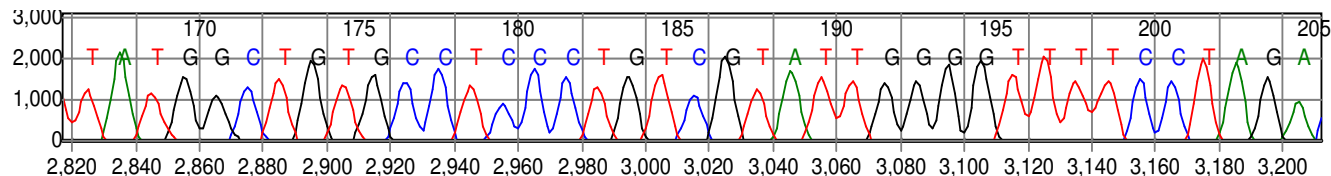
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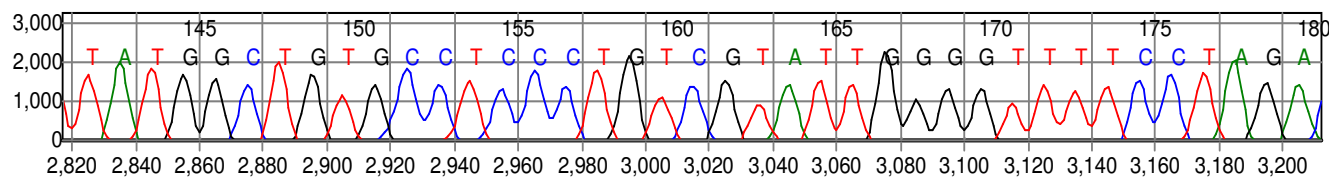
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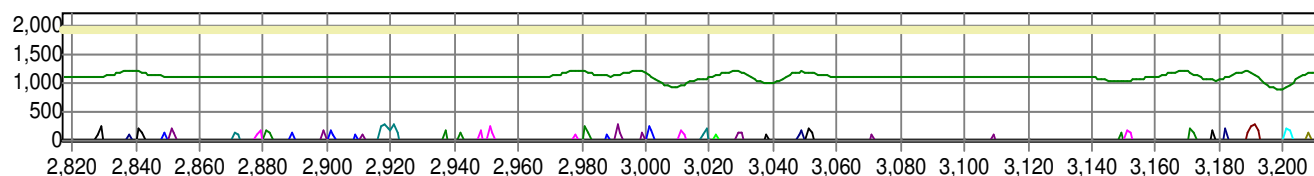
1S<-- TRIM22_8cR_AP0009_A04.ab1<--



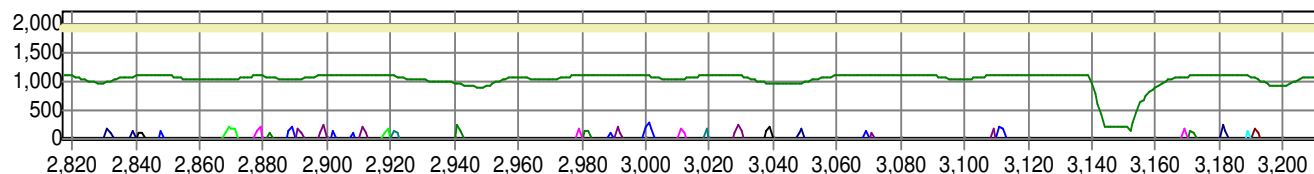
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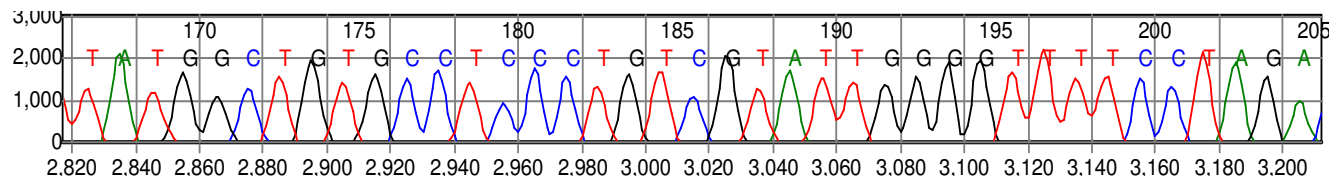
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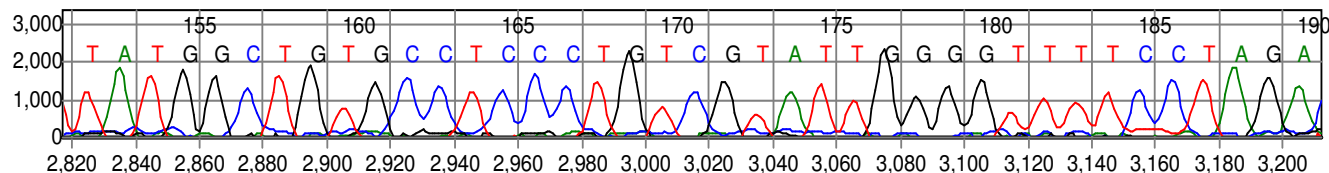
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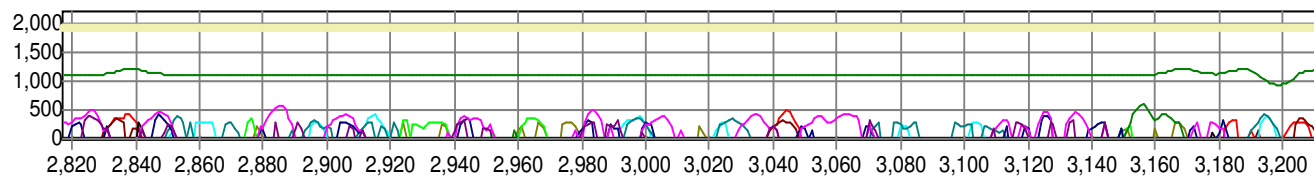
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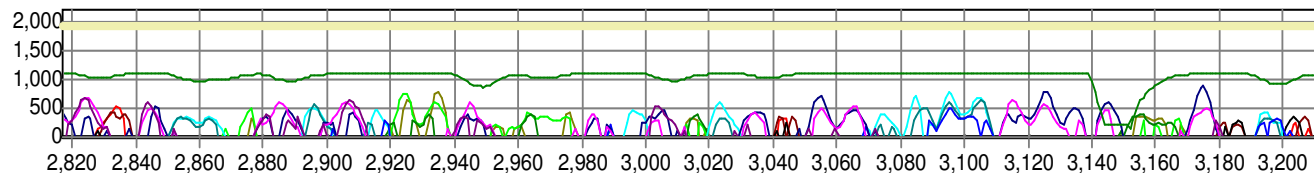
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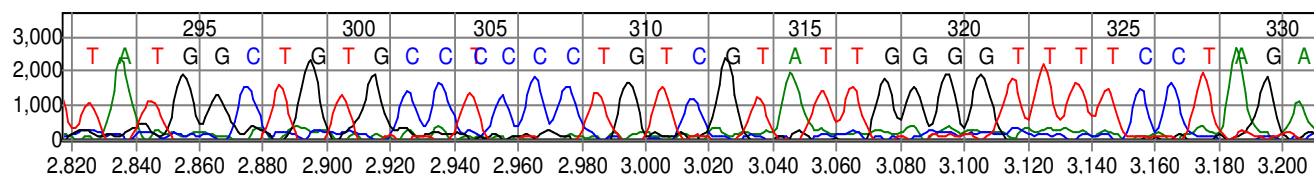
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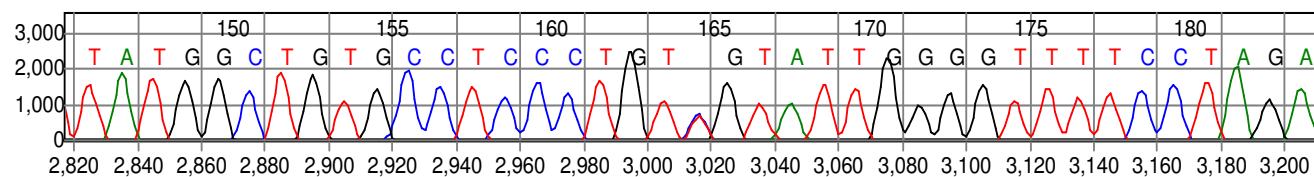
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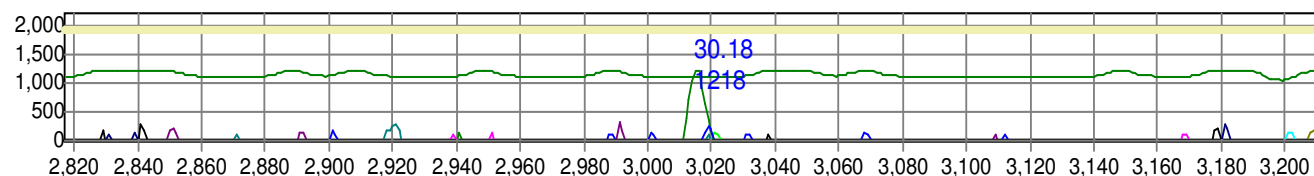
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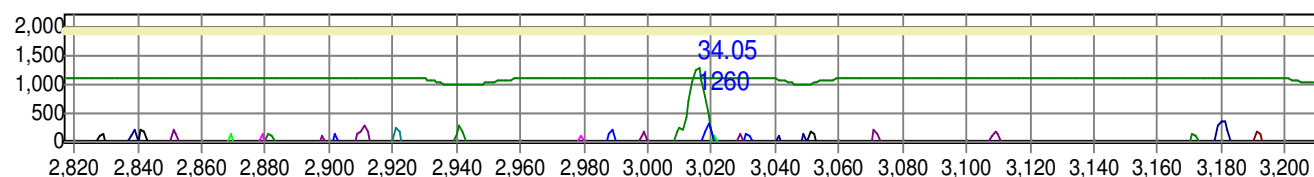
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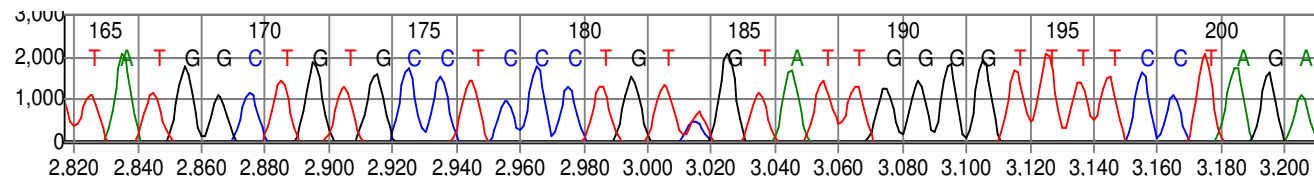
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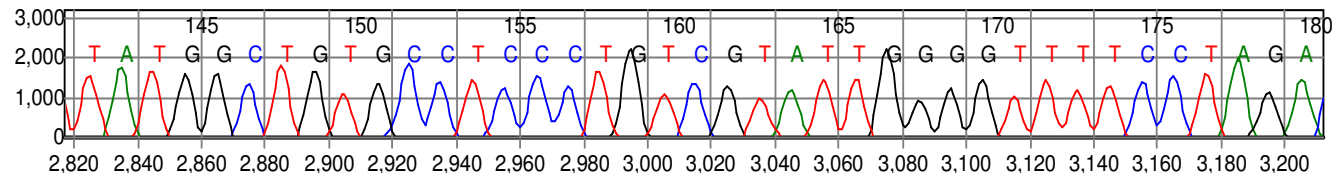
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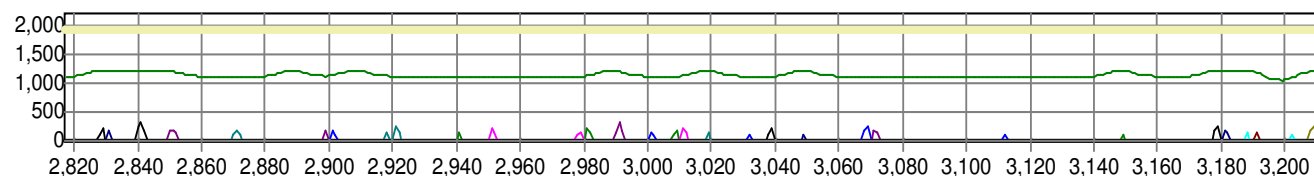
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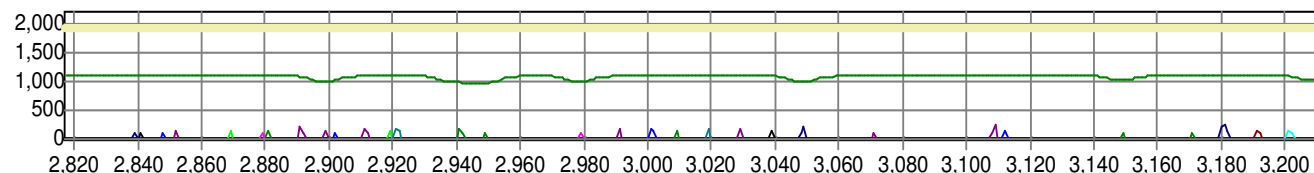
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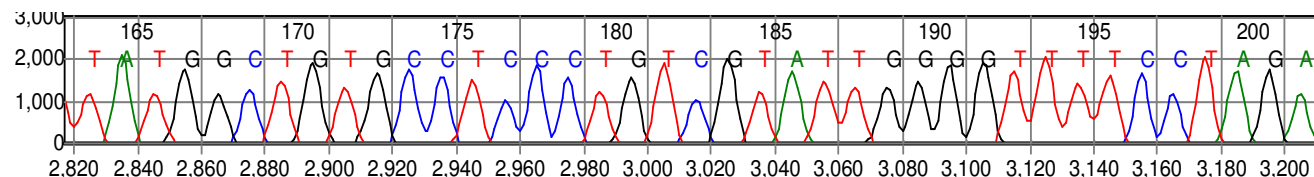
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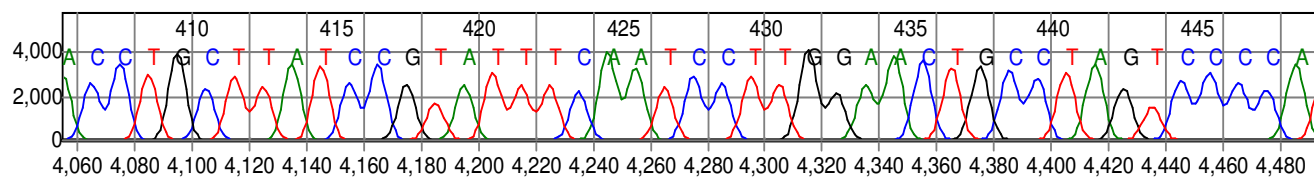
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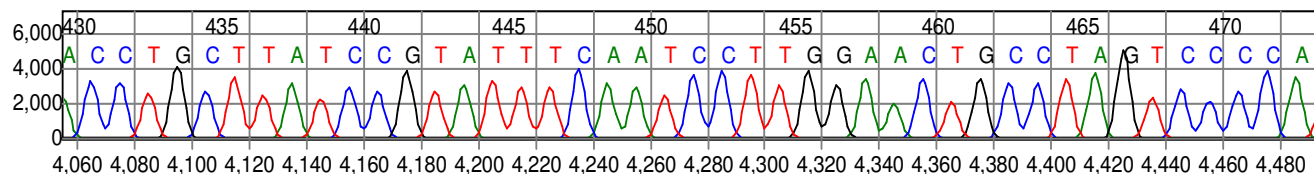
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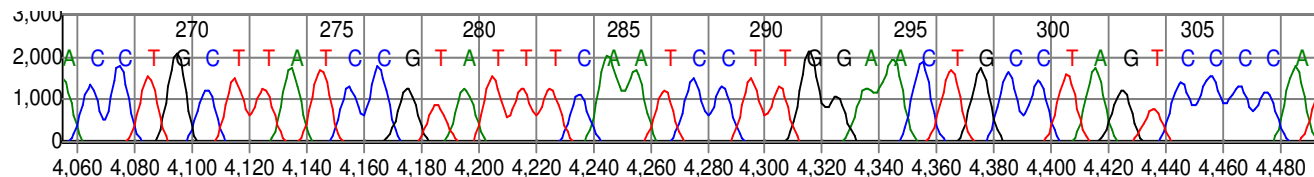
1R--> TRIM22_e8_F_Synthesis_625.scf-->



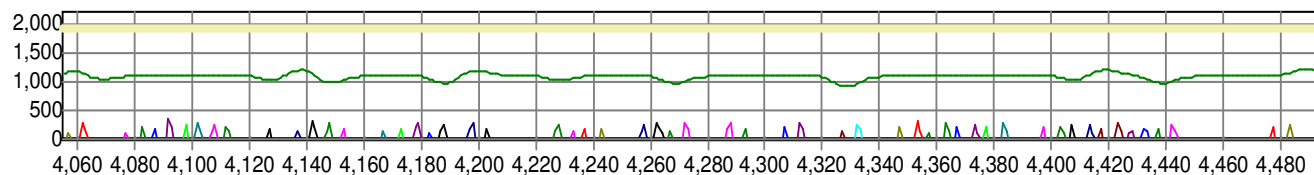
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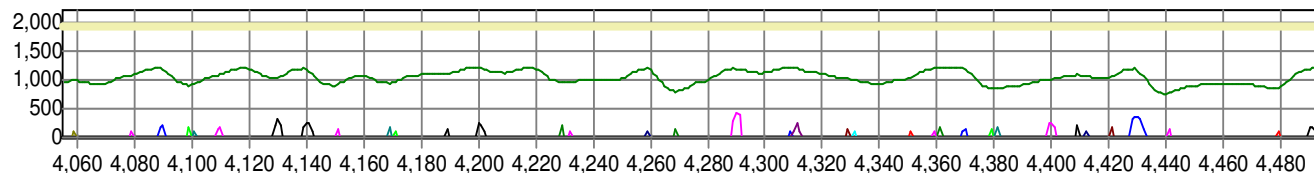
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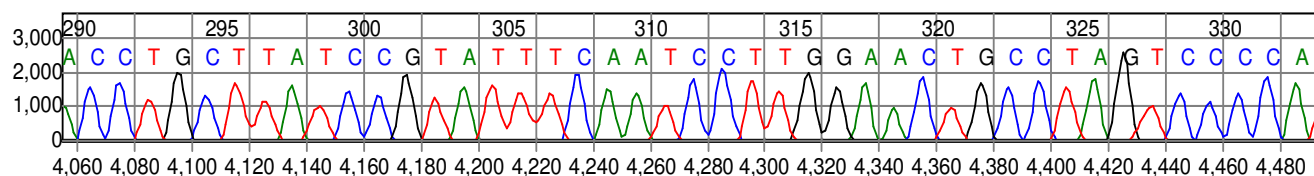
1S--> TRIM22_8cF_AP0009_A03.ab1



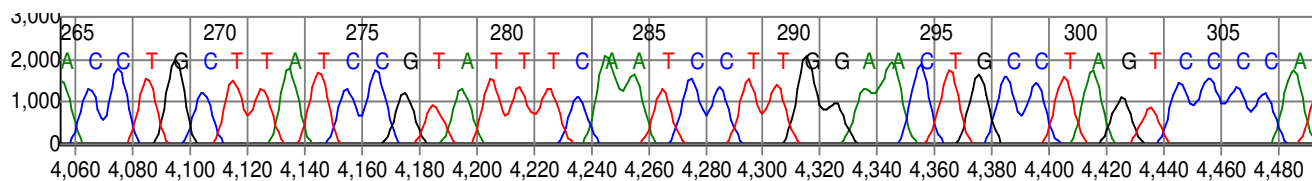
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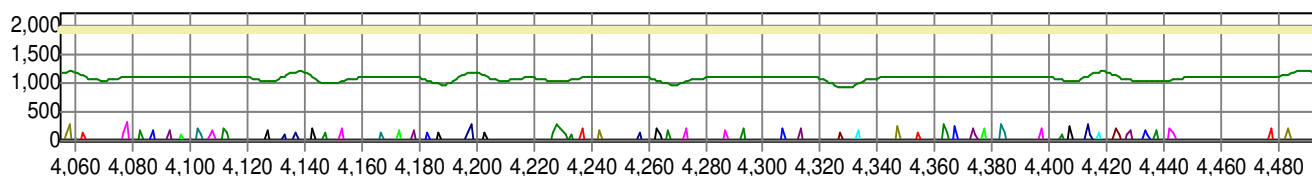
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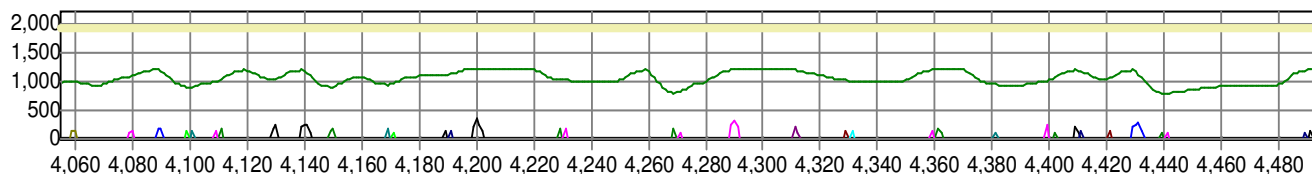
1S--> TRIM22_8cF_AP0142_B03.ab1-->



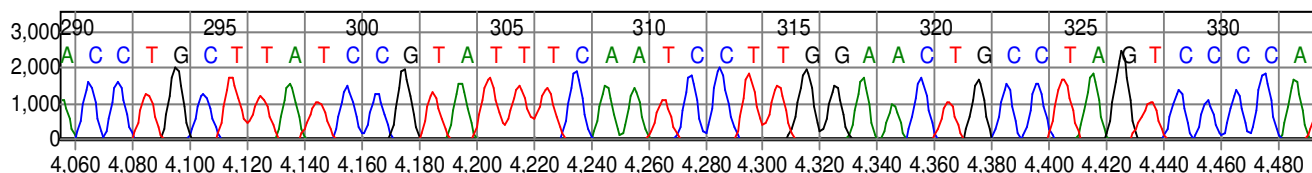
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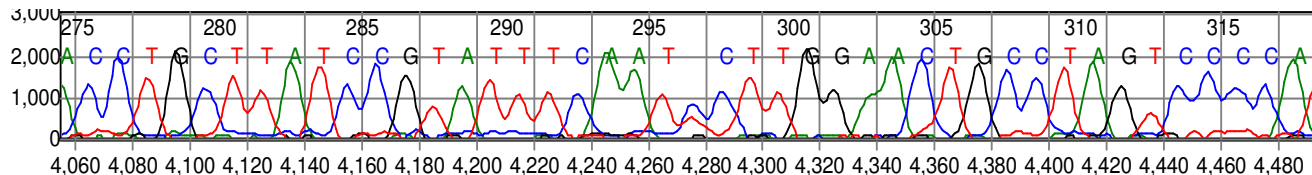
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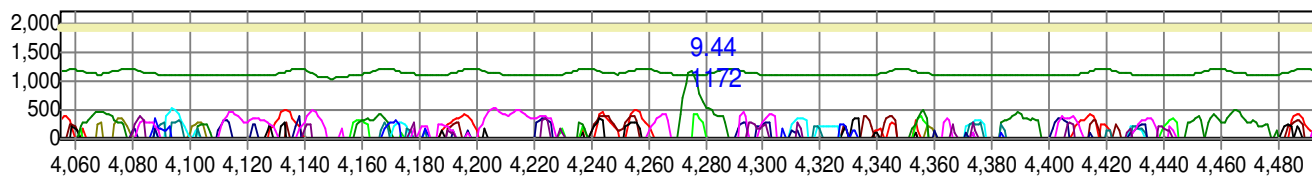
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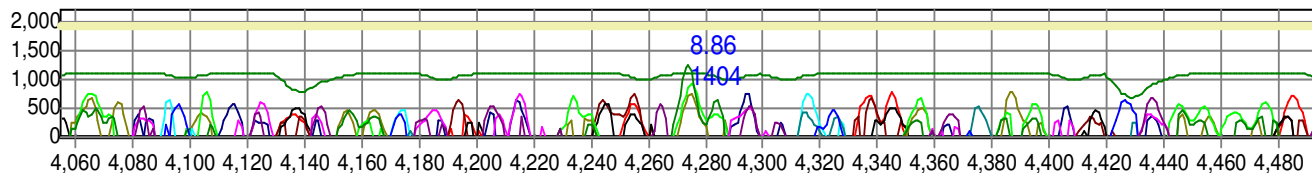
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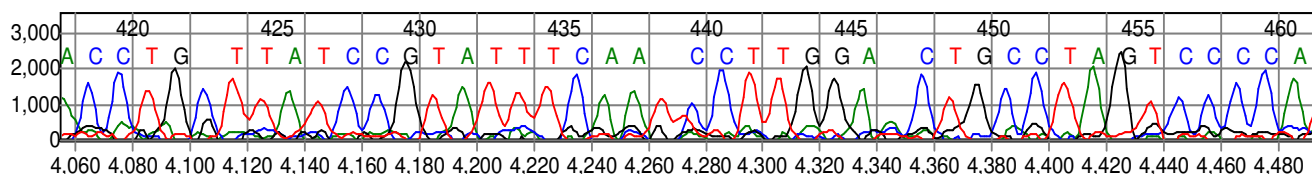
1S--> TRIM22_8cF_NP0043_C03.ab1 Mutations: 729C>CT\$9.4



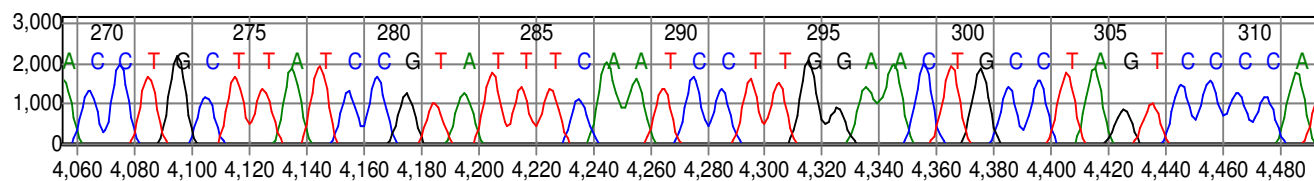
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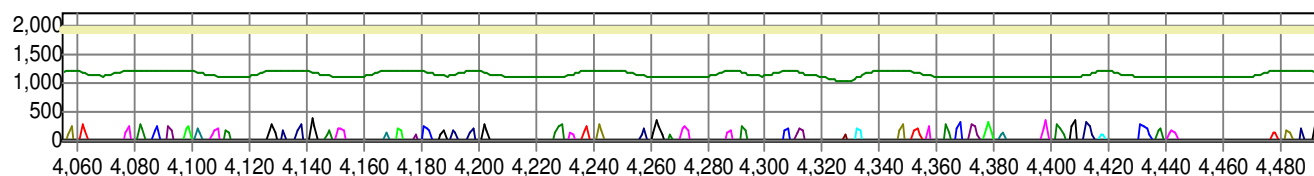
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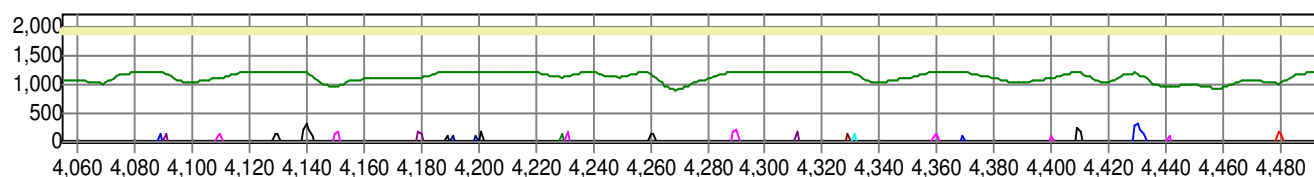
1S--> TRIM22_8cF_PR0008_C11.ab1-->



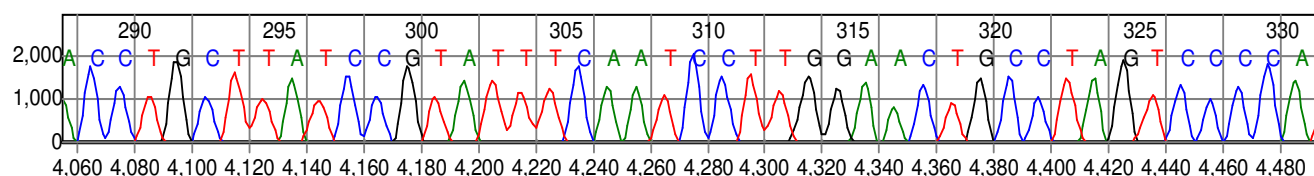
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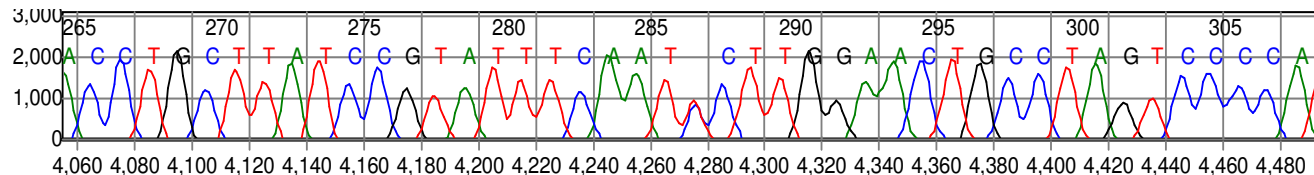
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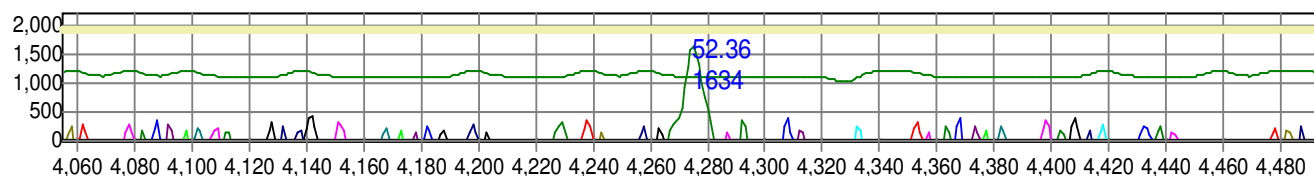
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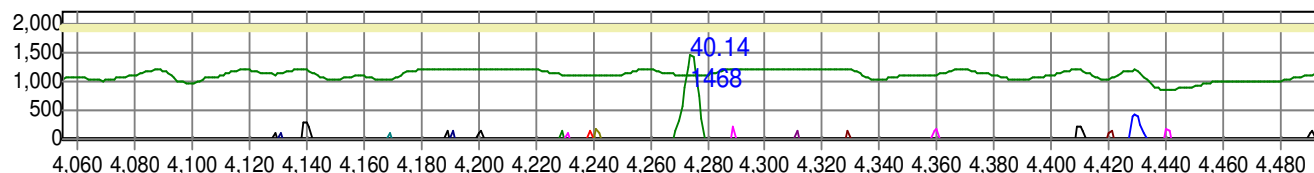
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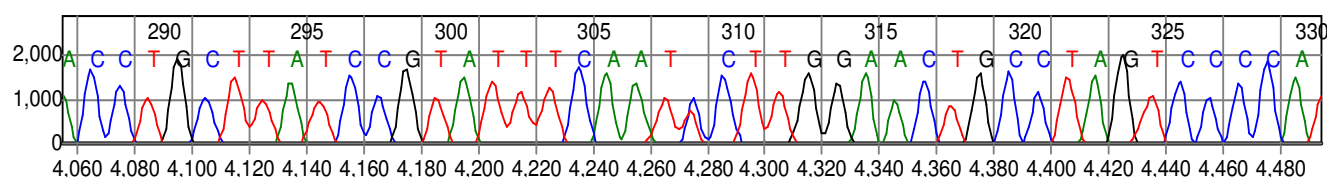
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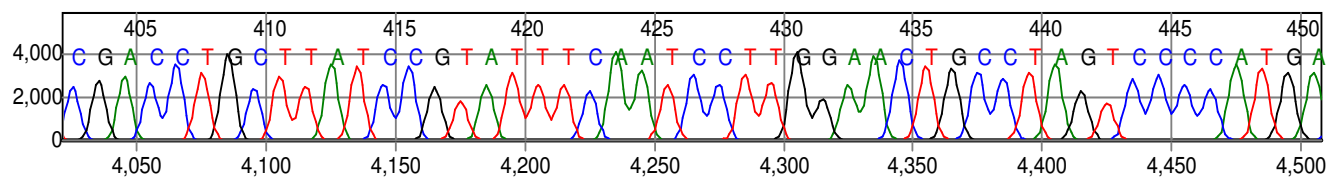
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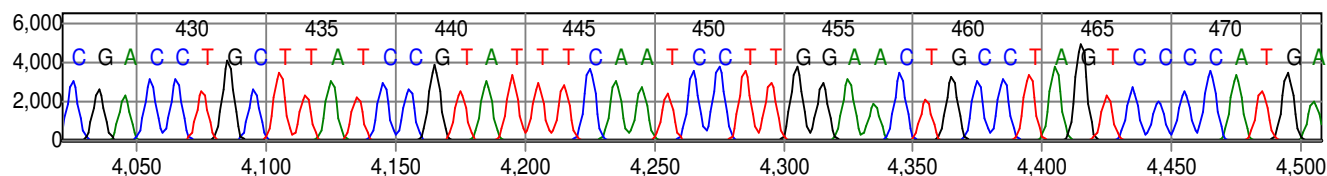
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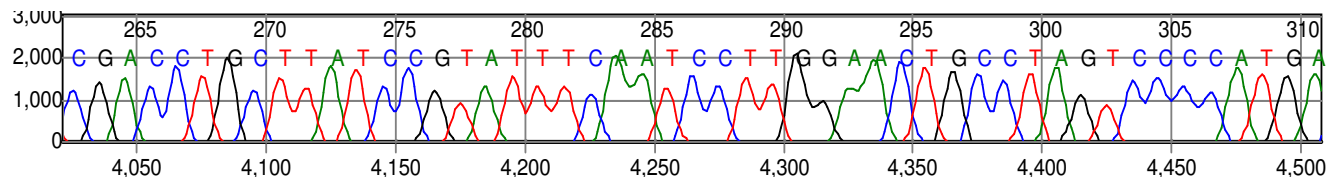
1R--> TRIM22_e8_F_Synthesis_624.scf-->



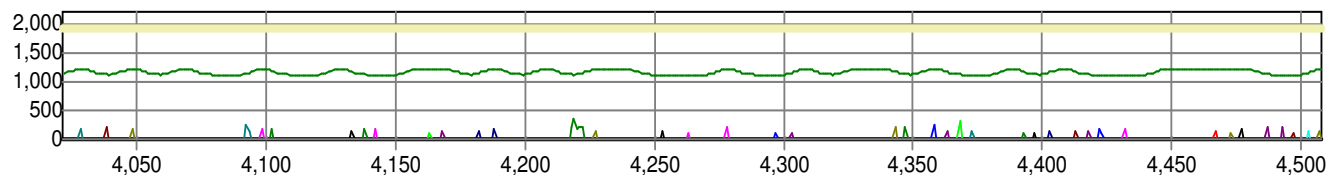
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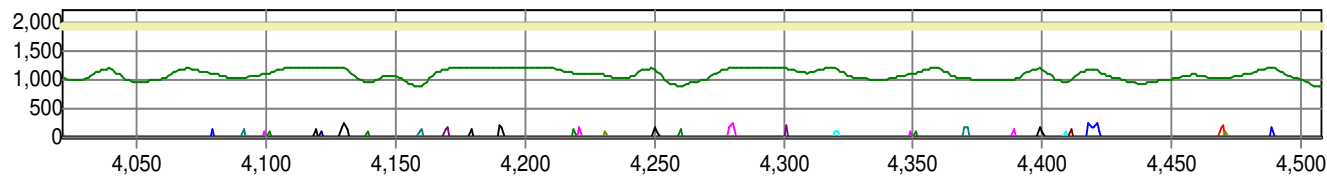
1S--> TRIM22_8cF_AP0142_B03.ab1-->



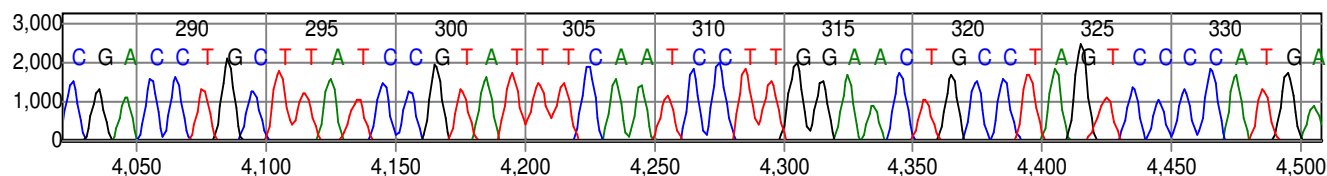
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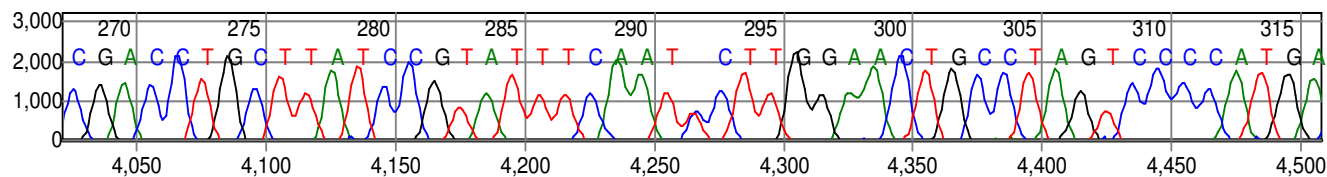
1S<-- TRIM22_8cR_AP0142_B04.ab1



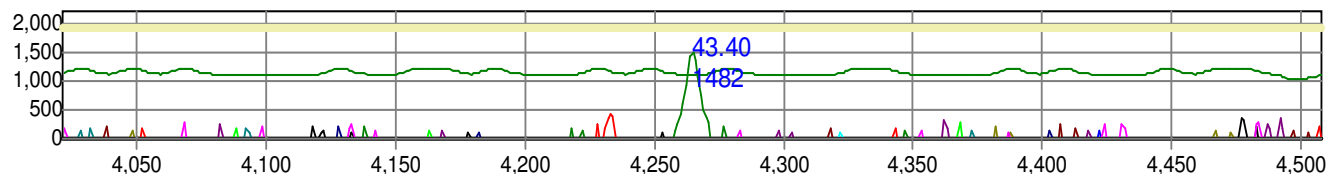
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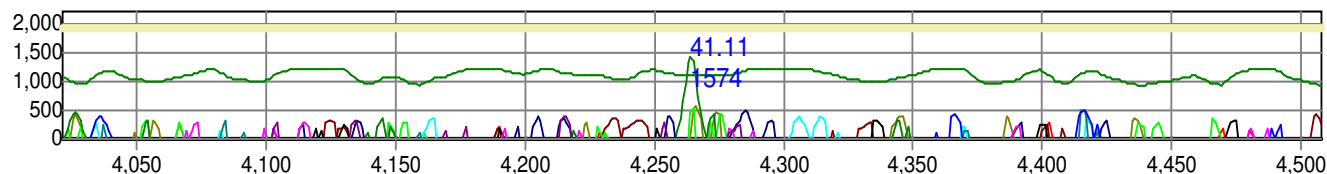
1S--> TRIM22_8cF_NP0043_G09.ab1-->



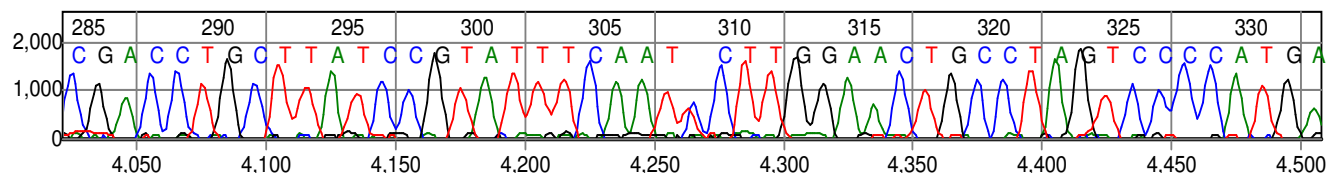
1S--> TRIM22_8cF_NP0043_G09.ab1 Mutations: 729C>CT\$43.4



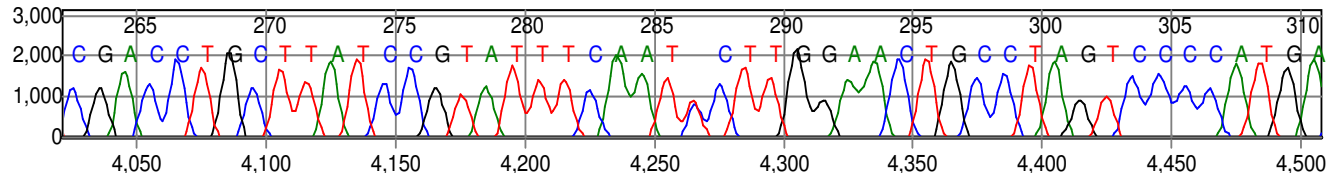
1S<-- TRIM22_8cR_NP0043_G10.ab1 Mutations: 729C>CT\$41.1



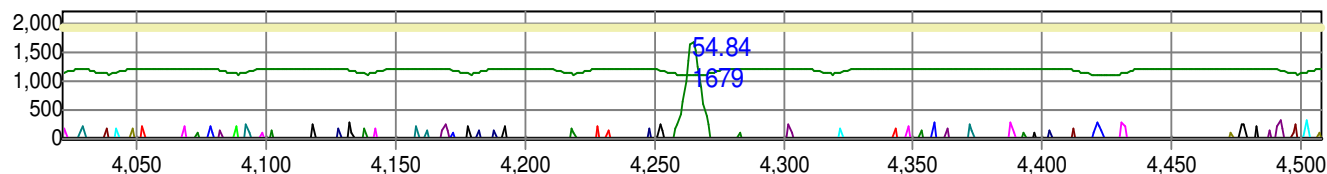
1S<-- TRIM22_8cR_NP0043_G10.ab1<--



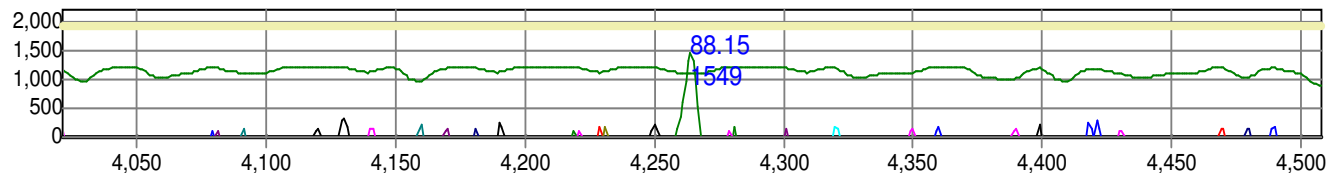
1S--> TRIM22_8cF_PR0111_E11.ab1-->



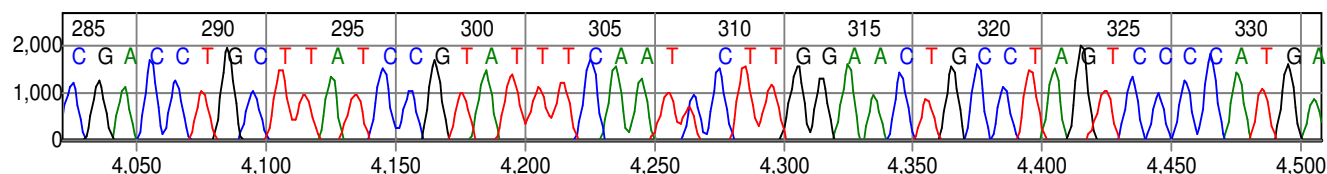
1S--> TRIM22_8cF_PR0111_E11.ab1 Mutations: 729C>CT\$54.8



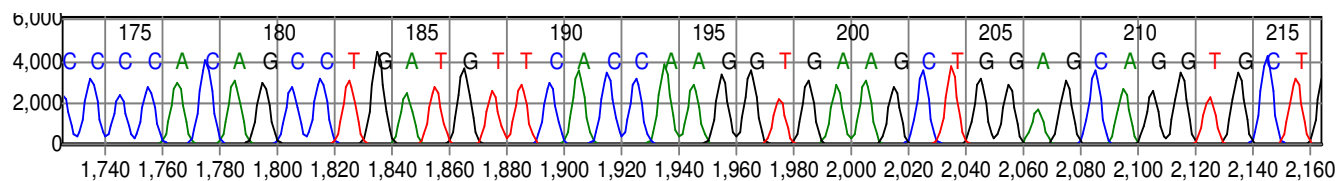
1S<-- TRIM22_8cR_PR0111_E12.ab1 Mutations: 729C>CT\$88.2



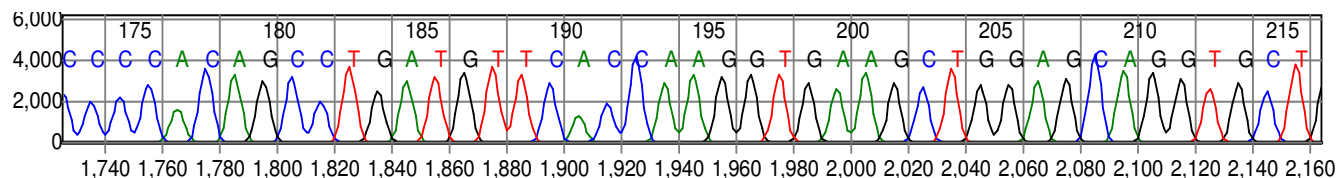
1S<-- TRIM22_8cR_PR0111_E12.ab1<--



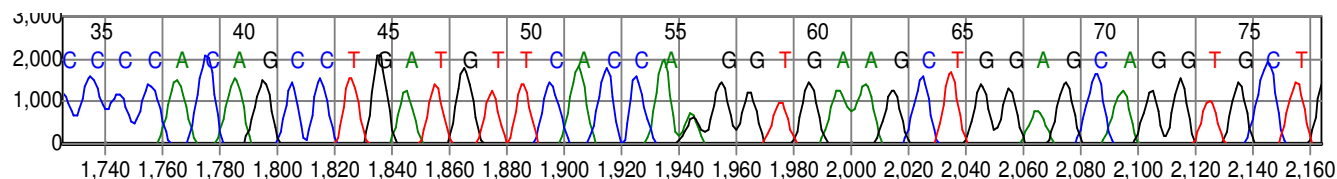
1R--> TTC7A_e16_F_Synthesis_279.scf-->



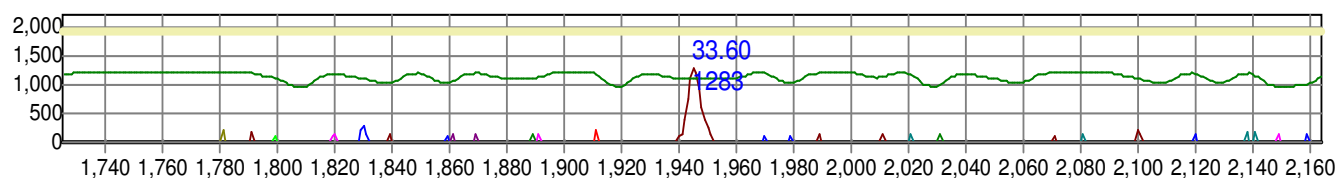
1R<-- TTC7A_e16_R_Synthesis_280.scf<--



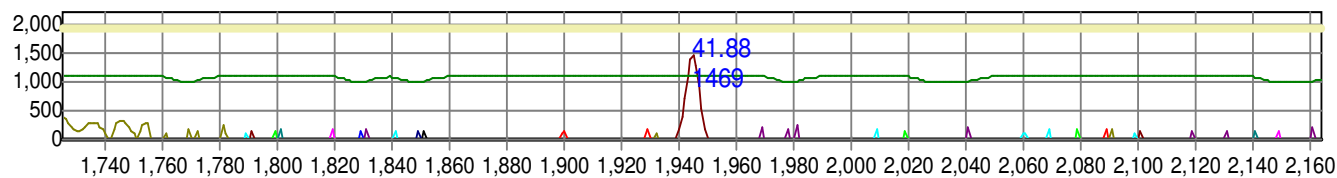
1S--> TTC7A_16F_AP0124_A05.ab1-->



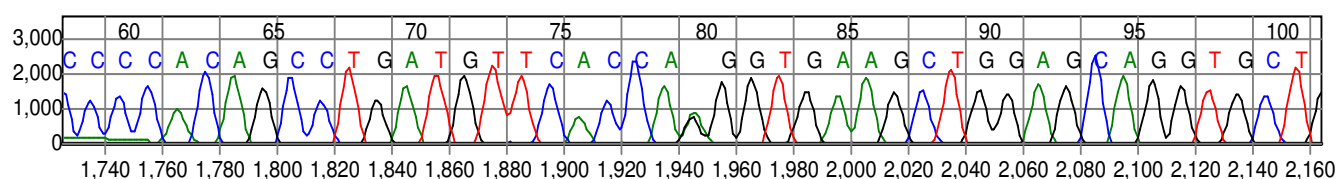
1S--> TTC7A_16F_AP0124_A05.ab1 Mutations: 195A>AG\$33.6



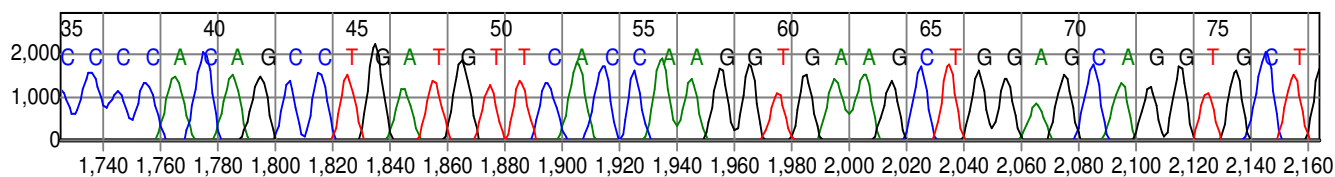
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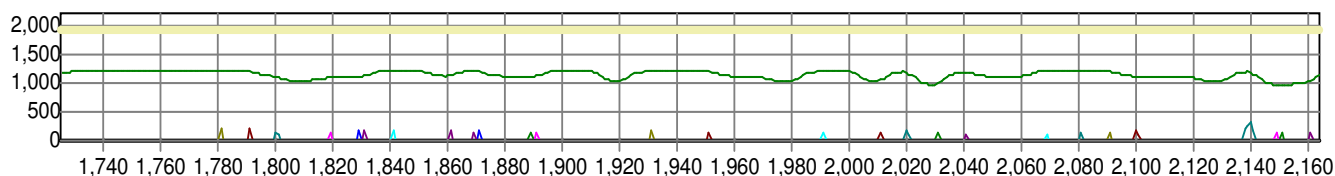
1S<-- TTC7A_16R_AP0124_A06.ab1<--



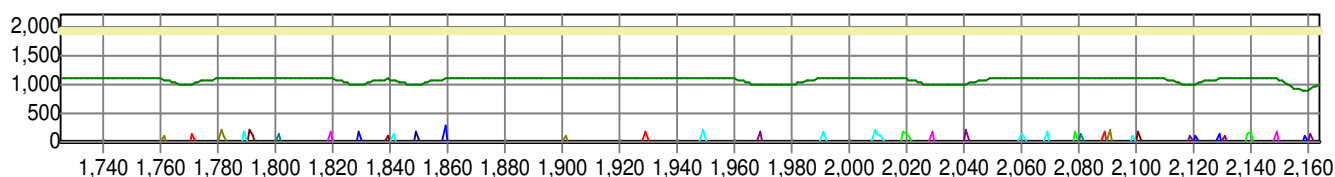
1S--> TTC7A_16F_AP0129_C05.ab1-->



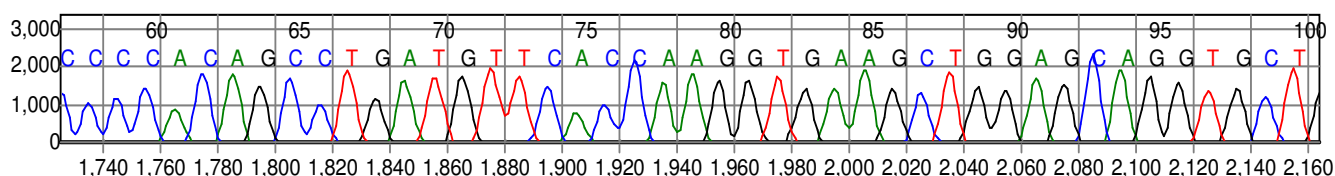
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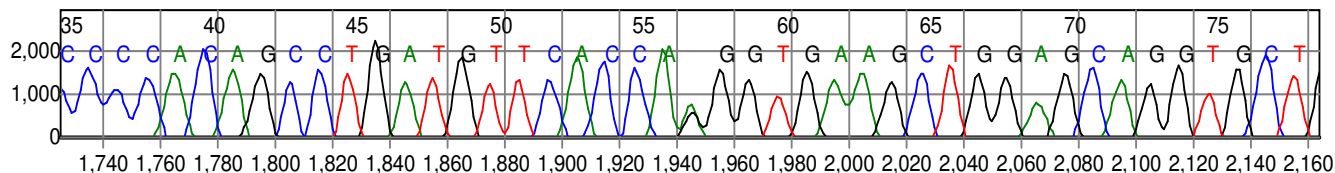
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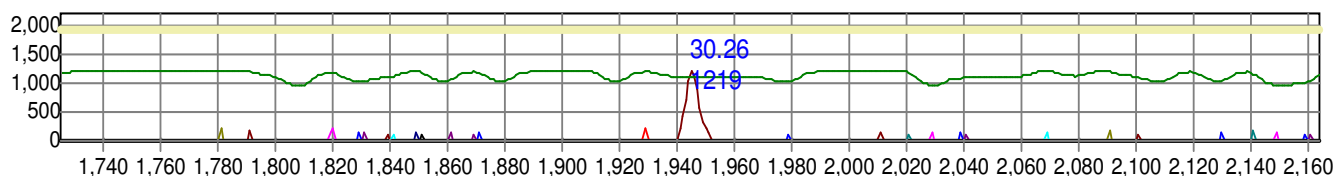
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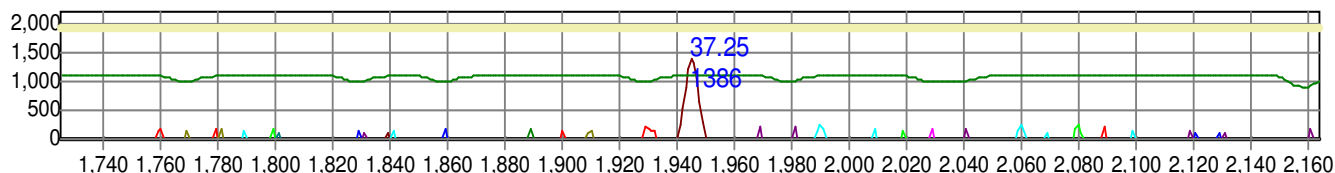
1S--> TTC7A_16F_AP0196_F05.ab1-->



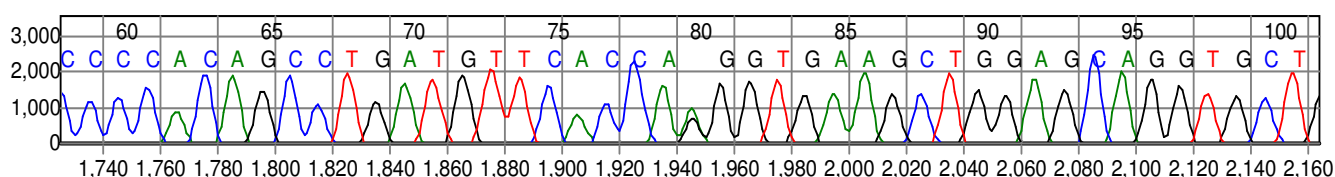
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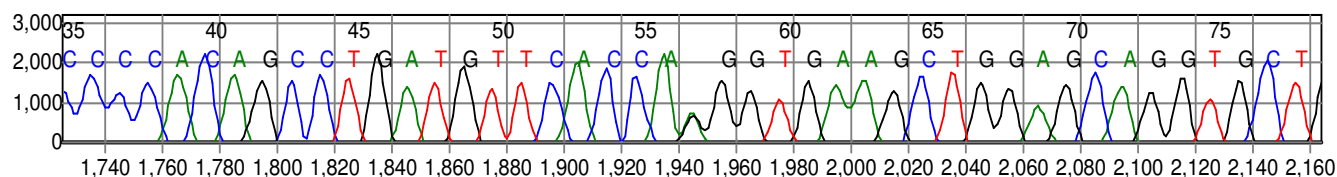
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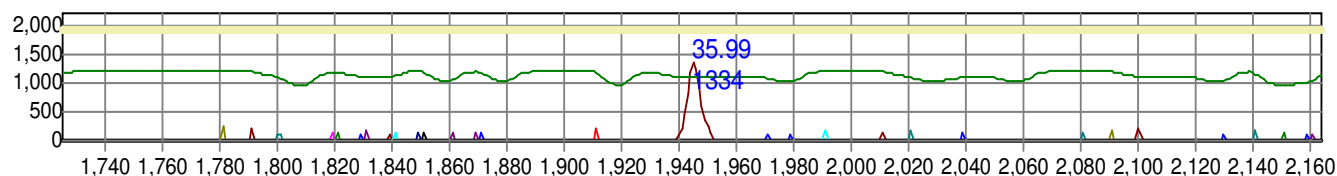
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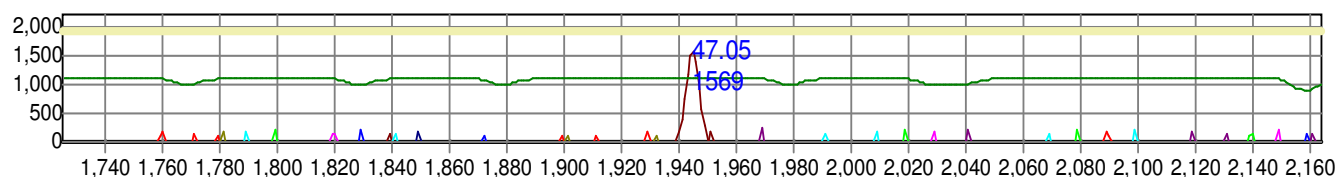
1S--> TTC7A_16F_NP0030_D05.ab1-->



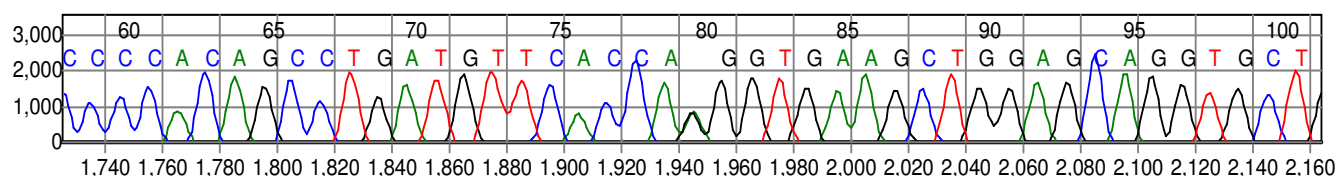
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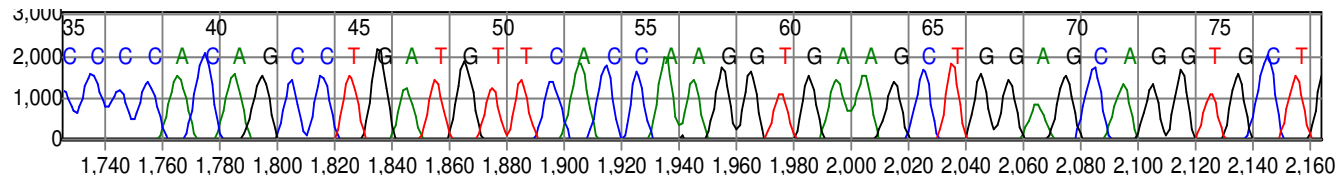
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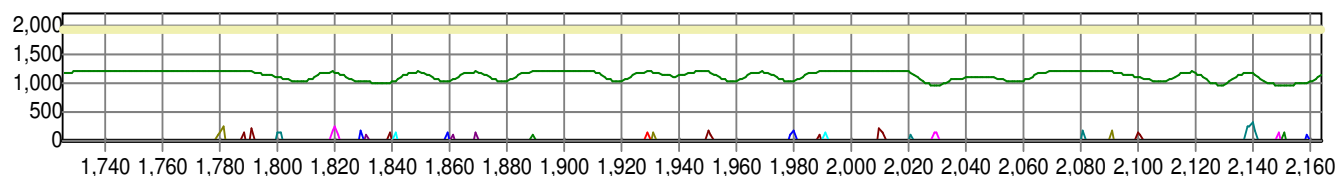
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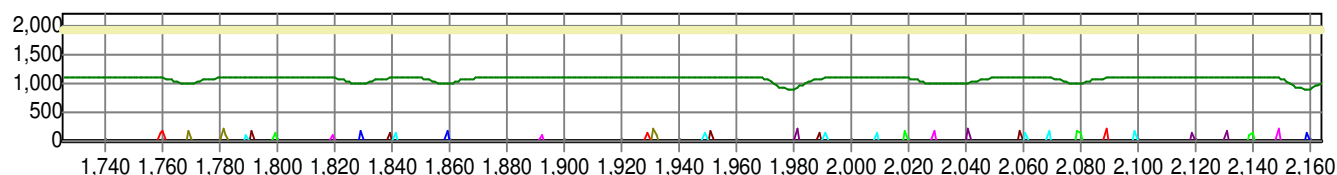
1S--> TTC7A_16F_NP0038_B05.ab1-->



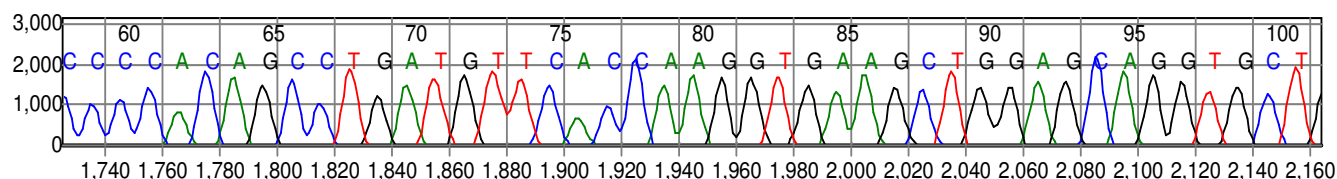
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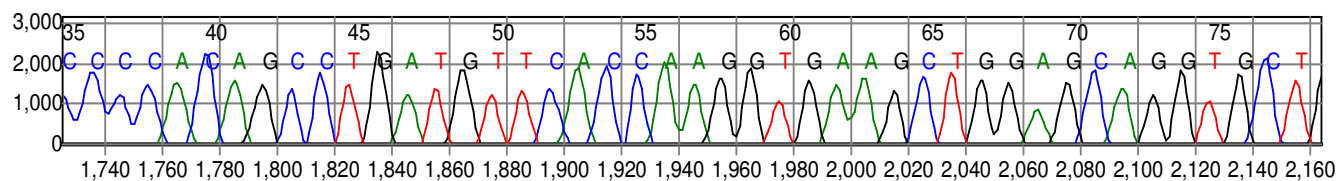
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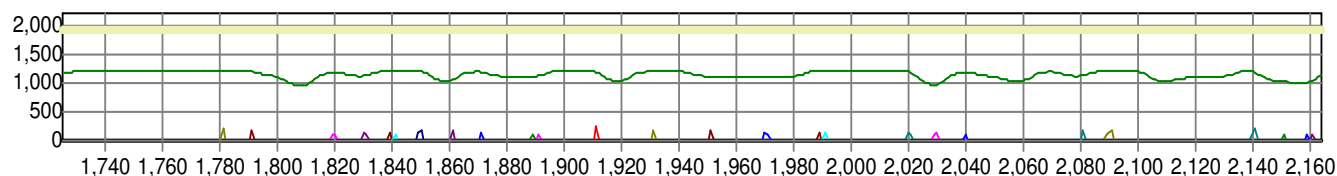
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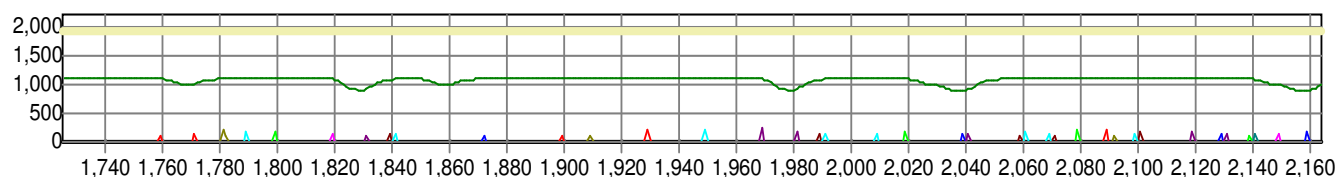
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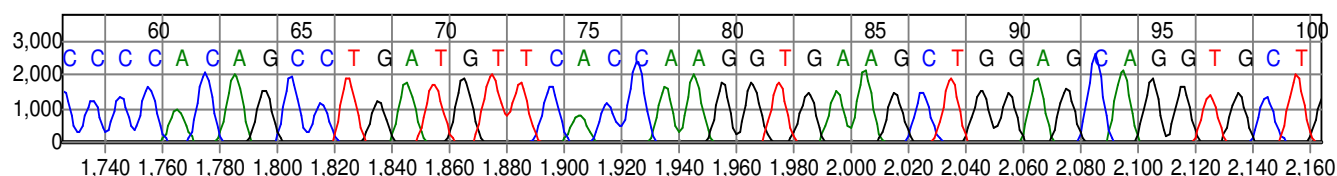
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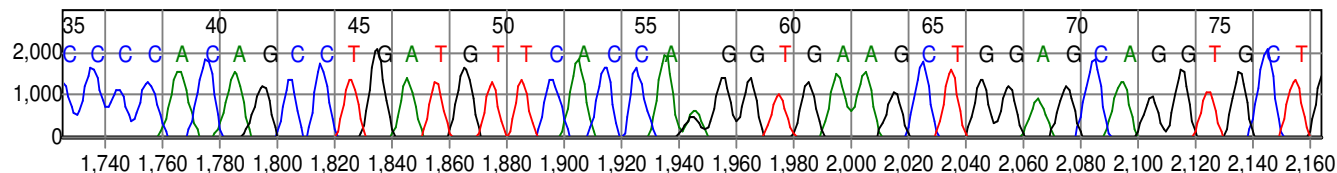
1S<-- TTC7A_16R_NP0058_G06.ab1



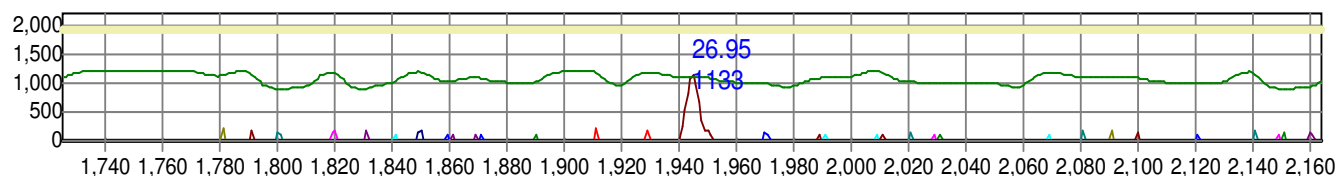
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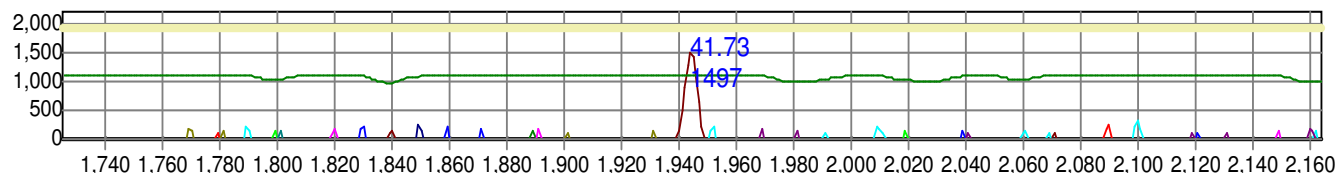
1S--> TTC7A_16F_PR0096_A01.ab1-->



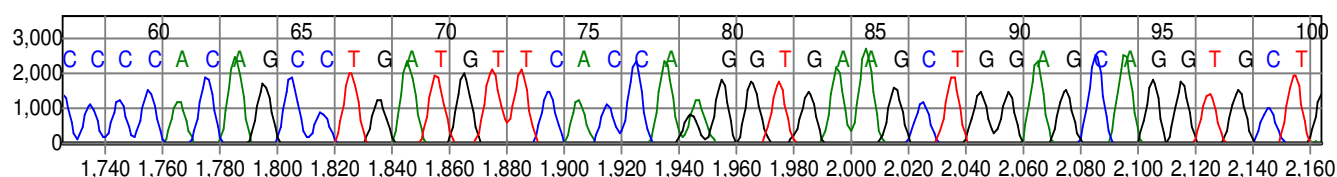
1S--> TTC7A_16F_PR0096_A01.ab1 Mutations: 195A>AG\$27.0



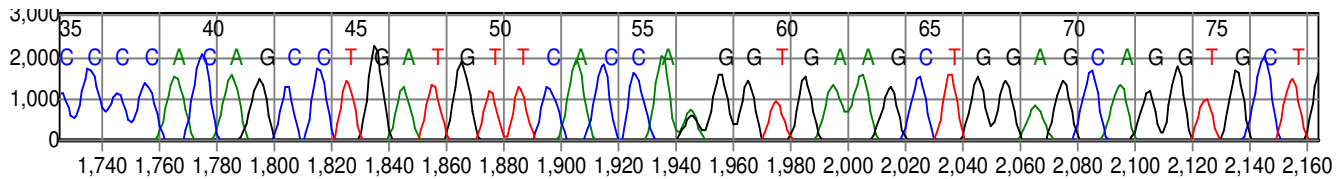
1S<-- TTC7A_16R_PR0096_A02.ab1 Mutations: 195A>AG\$41.7



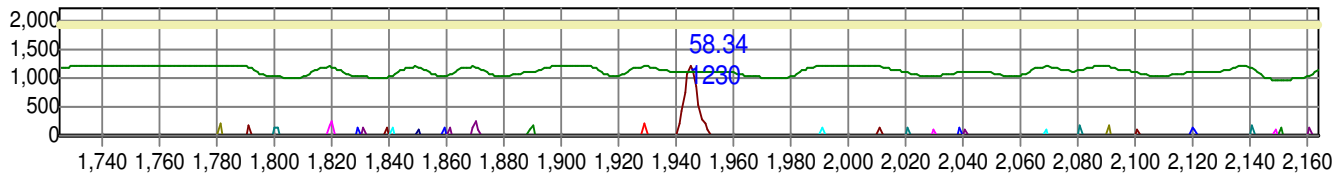
1S<-- TTC7A_16R_PR0096_A02.ab1<--



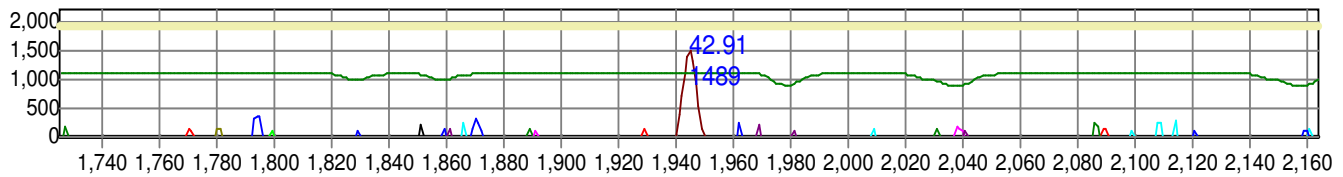
1S--> TTC7A_16F_RL0008_E05.ab1-->



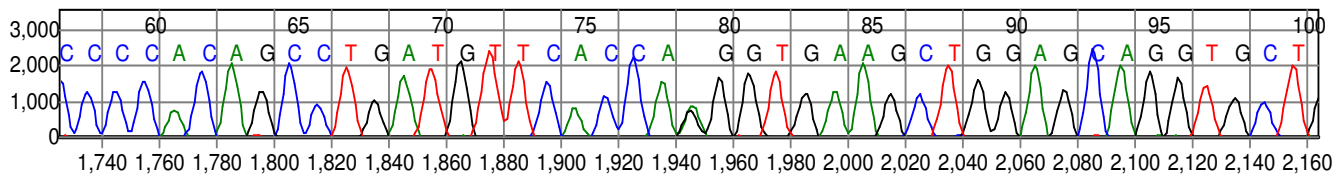
1S--> TTC7A_16F_RL0008_E05.ab1 Mutations: 195A>AG\$58.3



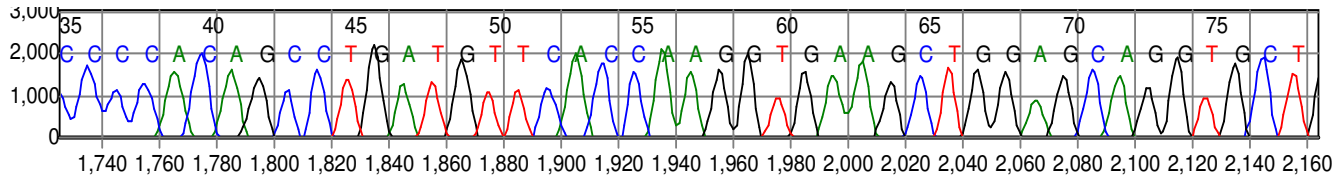
1S<-- TTC7A_16R_RL0008_E06.ab1 Mutations: 195A>AG\$42.9



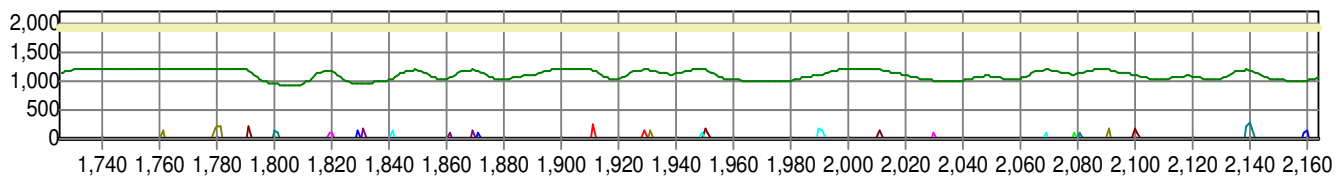
1S<-- TTC7A_16R_RL0008_E06.ab1<--



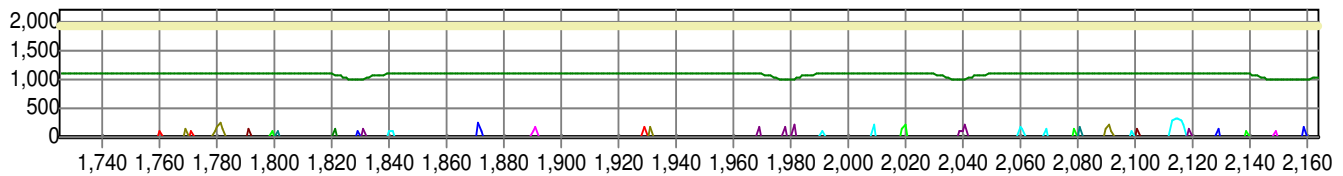
1S--> TTC7A_16F_SOAP0291_H05.ab1-->



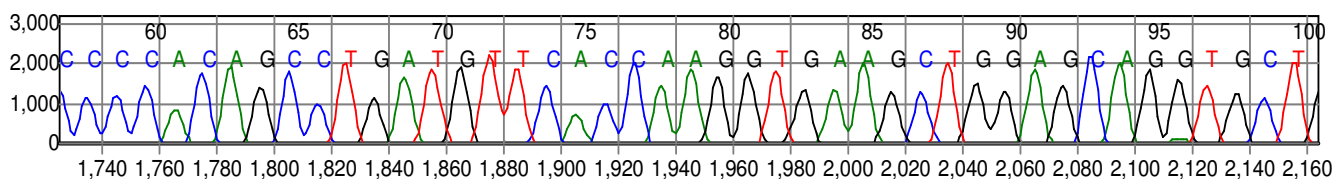
1S--> TTC7A_16F_SOAP0291_H05.ab1



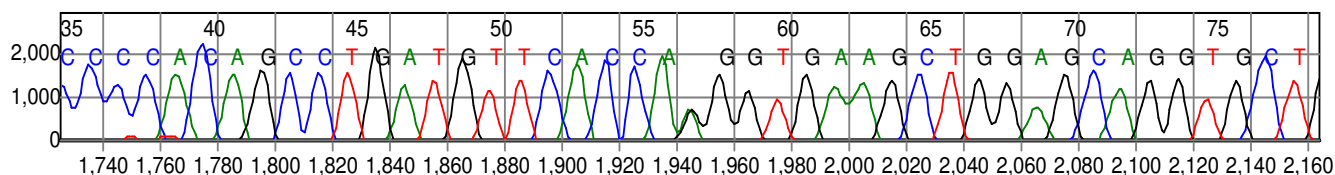
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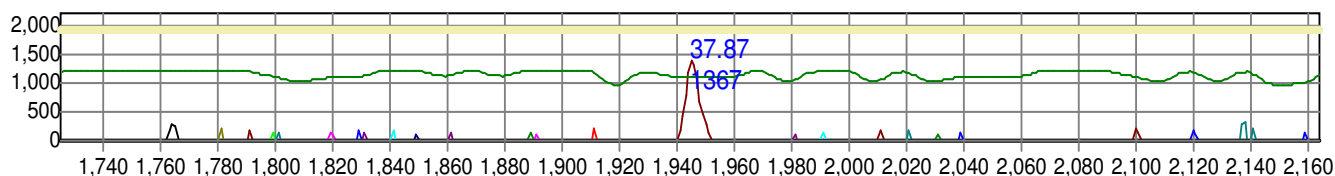
1S<-- TTC7A_16R_SOAP0291_H06.ab1<--



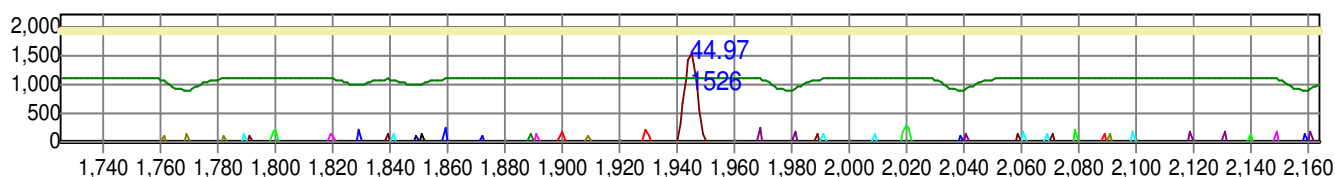
1S--> TTC7A_16F_SOAP0493_A07.ab1-->



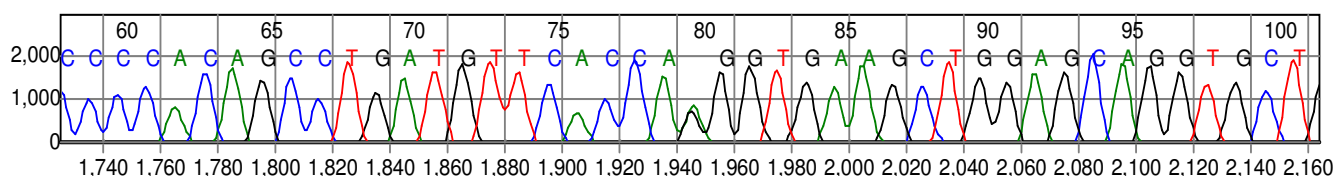
1S--> TTC7A_16F_SOAP0493_A07.ab1 Mutations: 195A>AG\$37.9



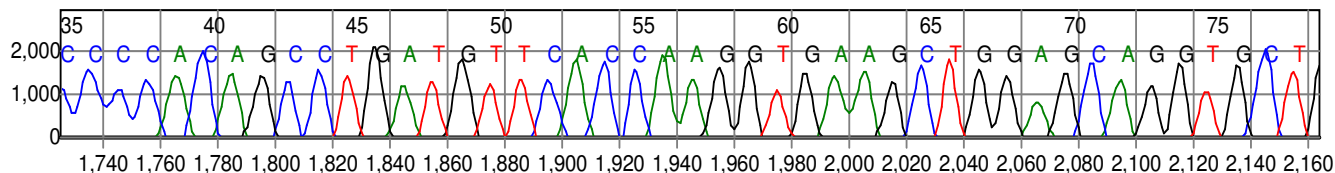
1S<-- TTC7A_16R_SOAP0493_A08.ab1 Mutations: 195A>AG\$45.0



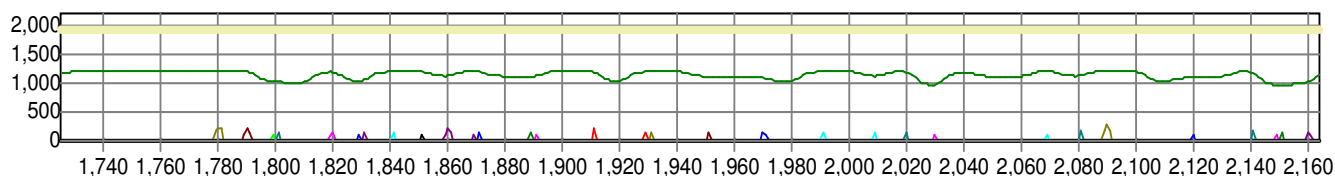
1S<-- TTC7A_16R_SOAP0493_A08.ab1<--



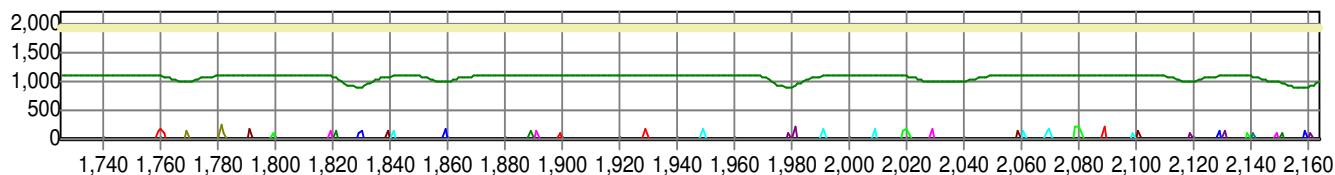
1S--> TTC7A_16F_SONP0145_B07.ab1-->



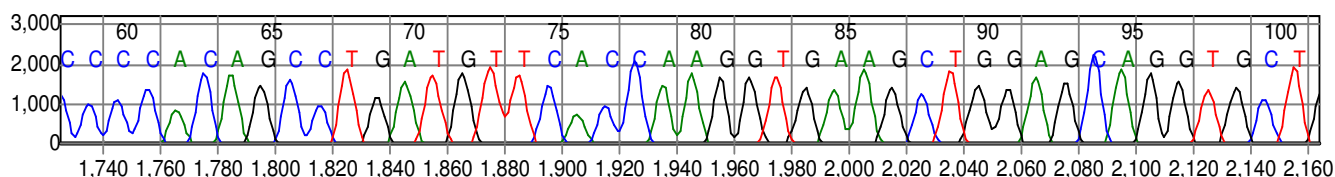
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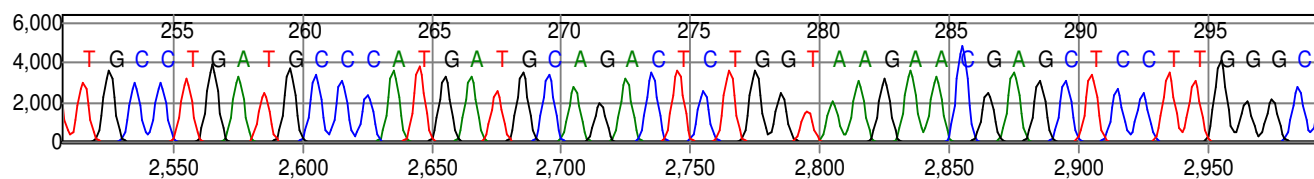
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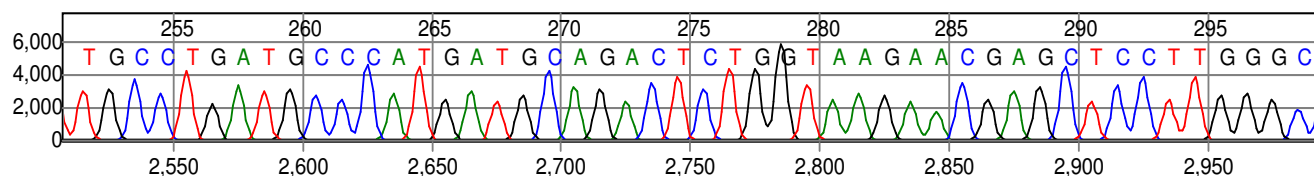
1S<-- TTC7A_16R_SONP0145_B08.ab1<--



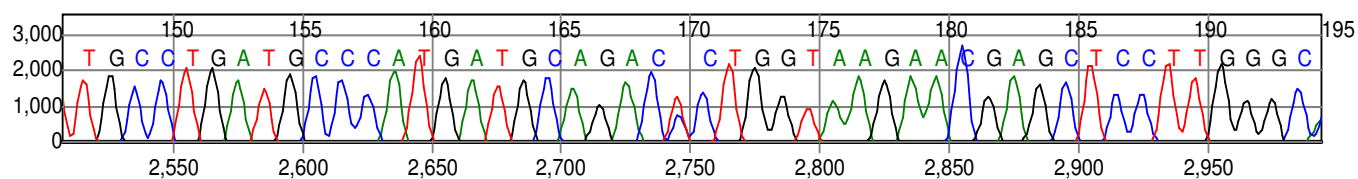
1R--> TTC7A_e17_F_Synthesis_225.scf-->



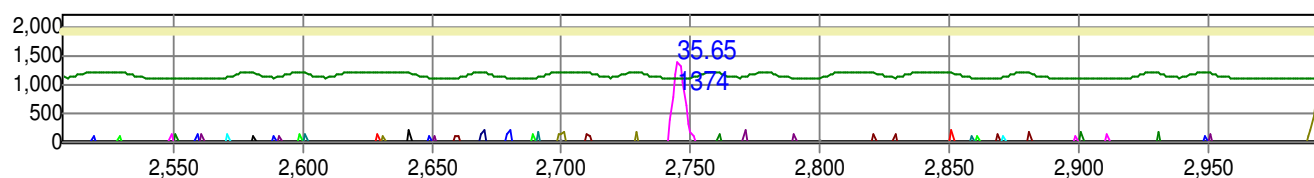
1R<-- TTC7A_e17_R_Synthesis_205.scf<--



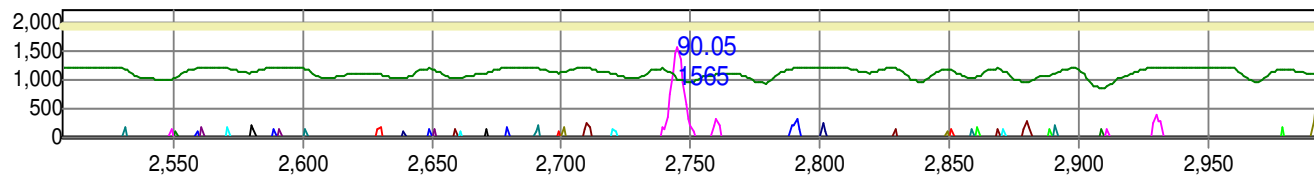
1S--> TTC7A_17F_AP0124_A11.ab1-->



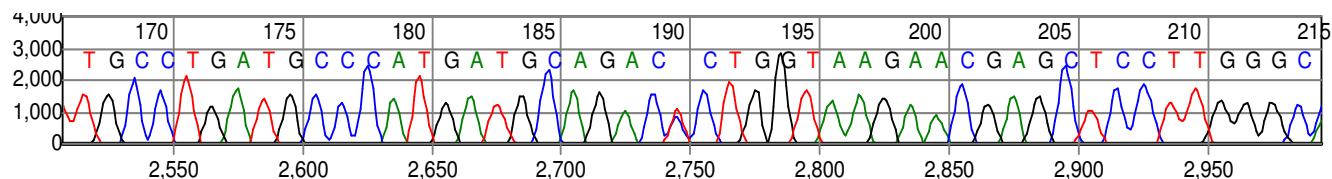
1S--> TTC7A_17F_AP0124_A11.ab1 Mutations: 275T>TC\$35.6



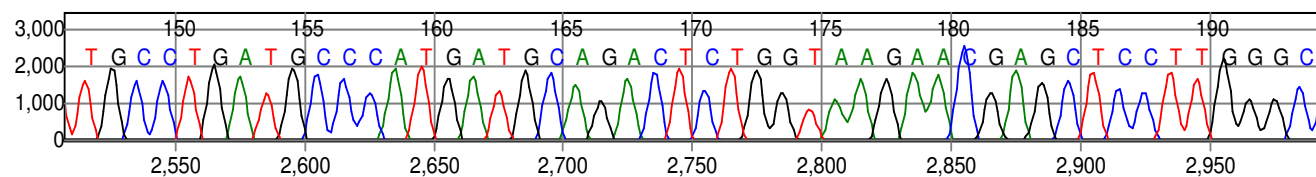
1S<-- TTC7A_17R_AP0124_A12.ab1 Mutations: 275T>TC\$90.1



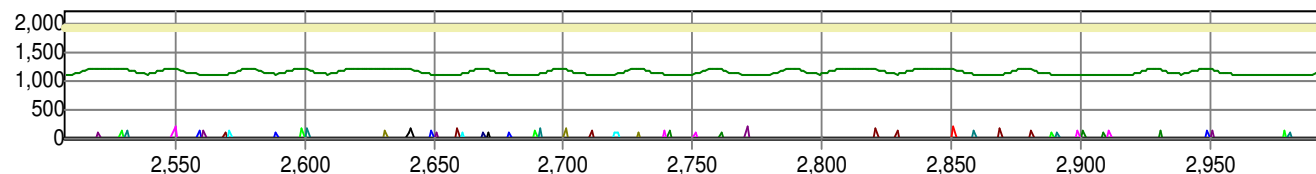
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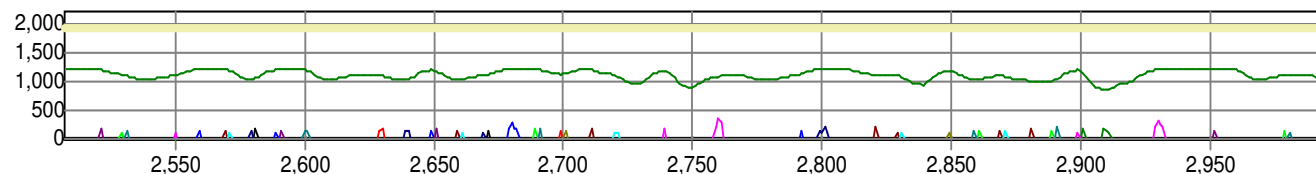
1S--> TTC7A_17F_AP0129_C11.ab1-->



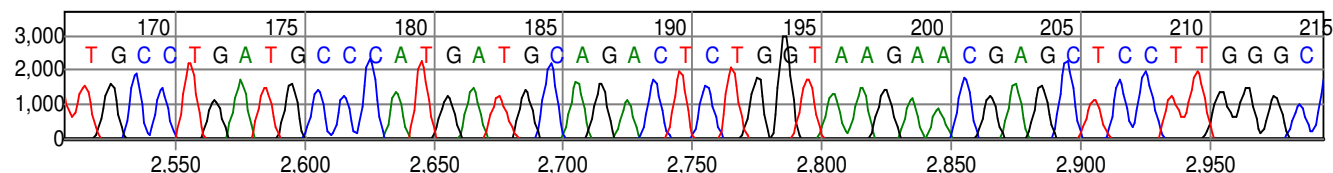
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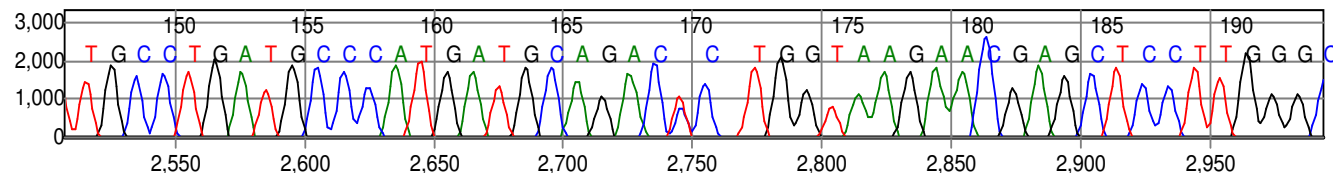
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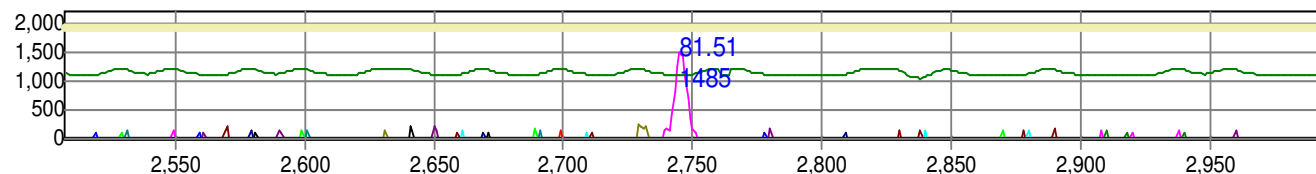
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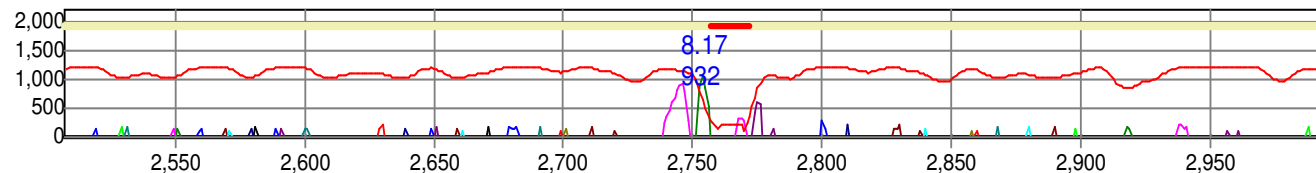
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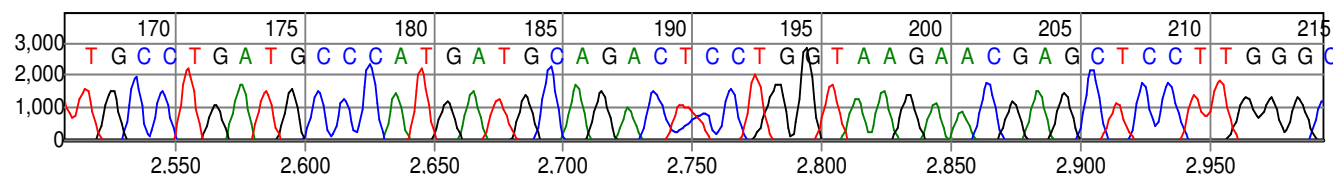
1S--> TTC7A_17F_AP0196_F11.ab1 Mutations: 275T>TC\$81.5



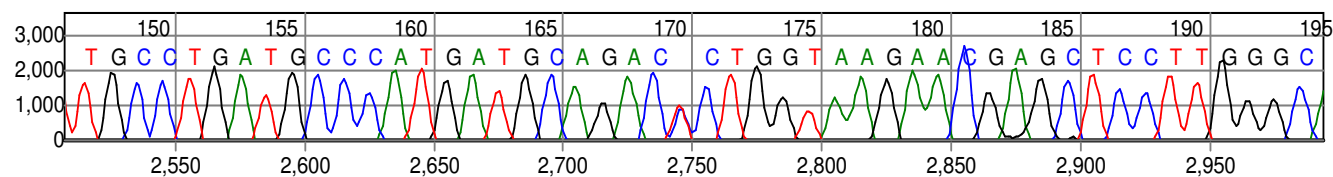
1S<-- TTC7A_17R_AP0196_F12.ab1 Mutations: 275T>TC\$8.2 277_276dup



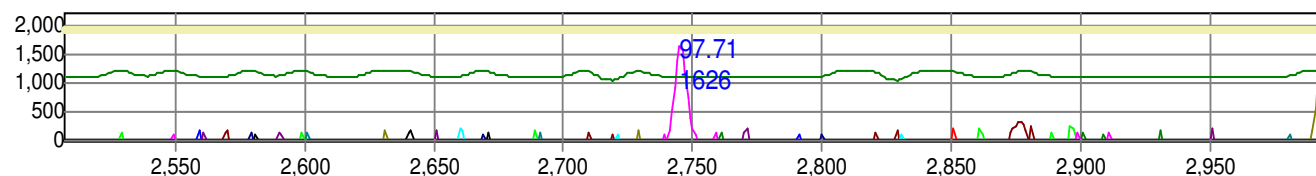
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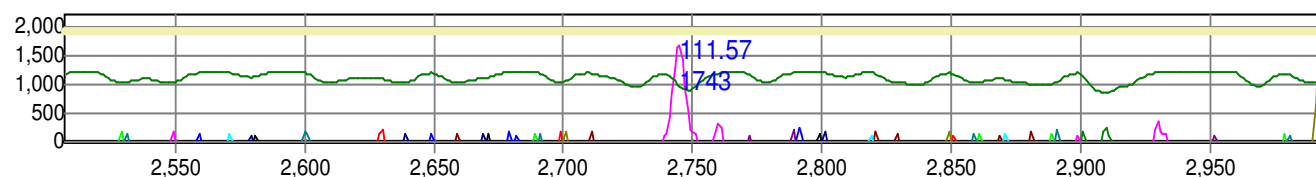
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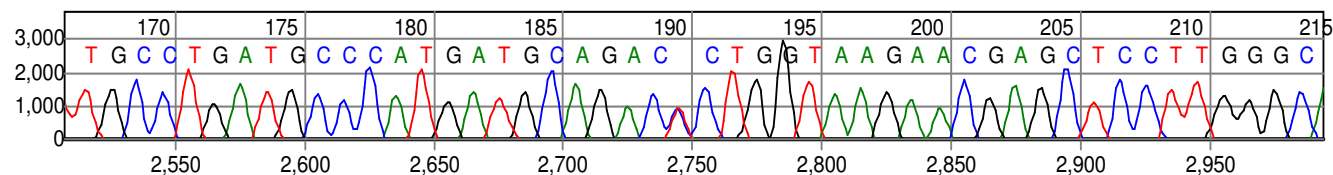
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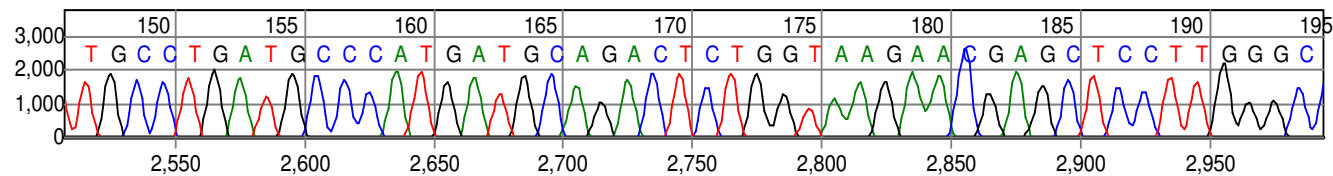
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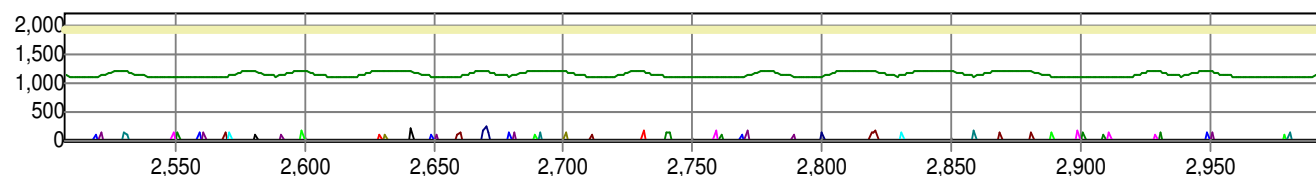
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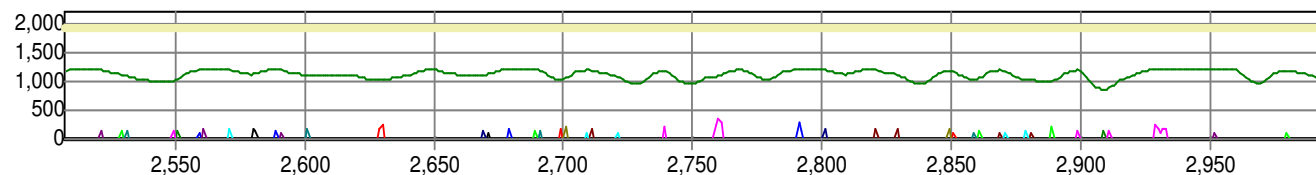
1S--> TTC7A_17F_NP0038_B11.ab1-->



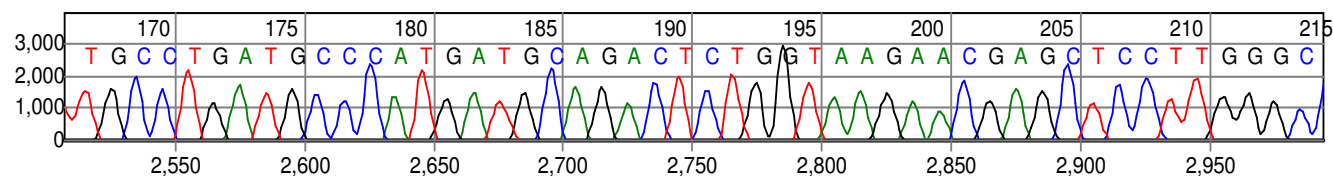
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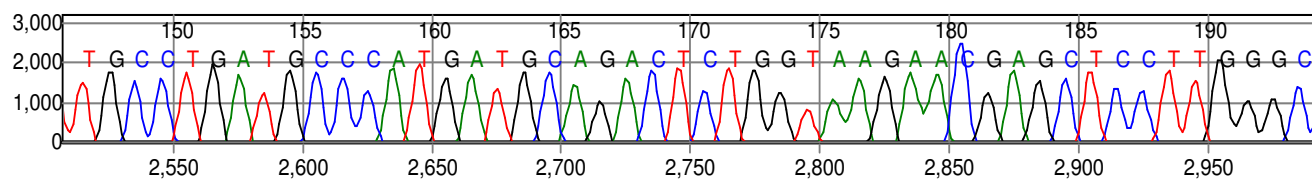
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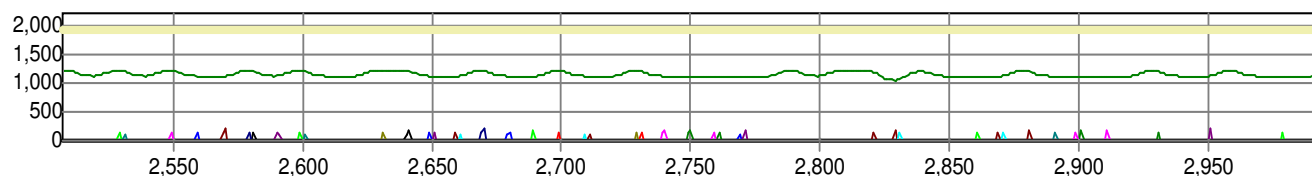
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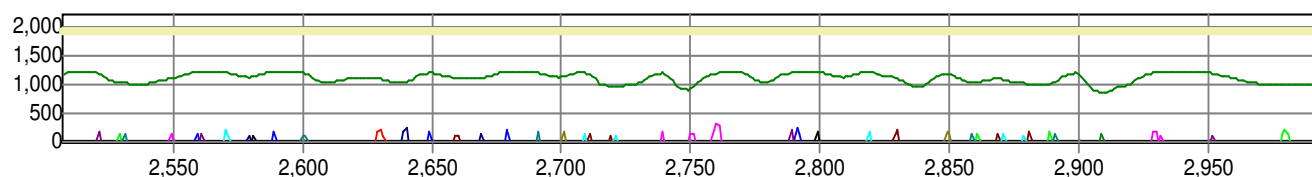
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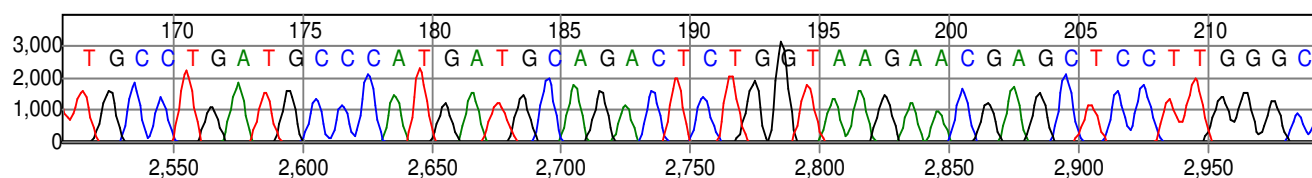
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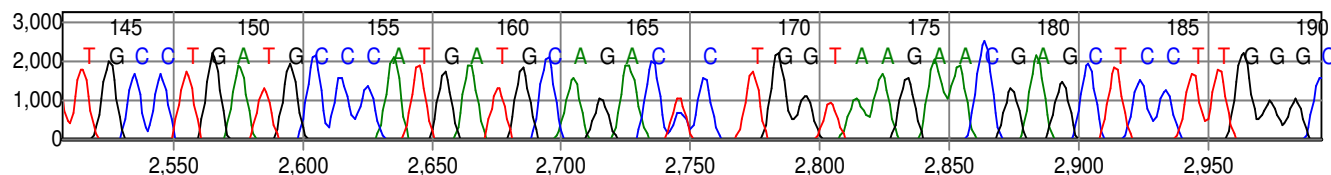
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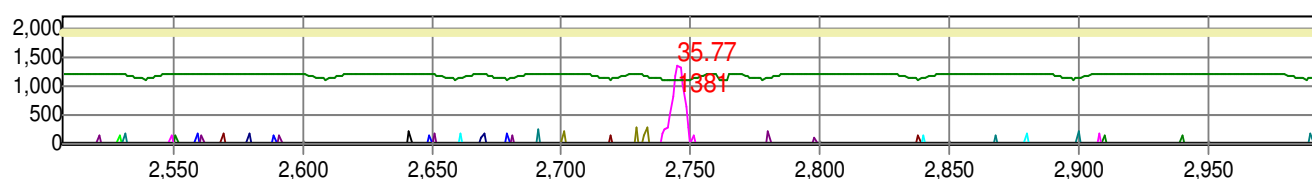
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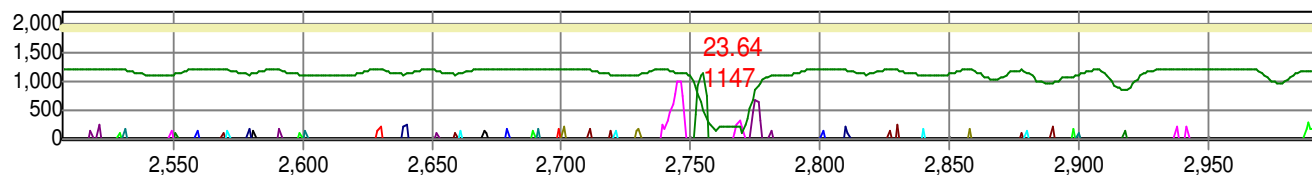
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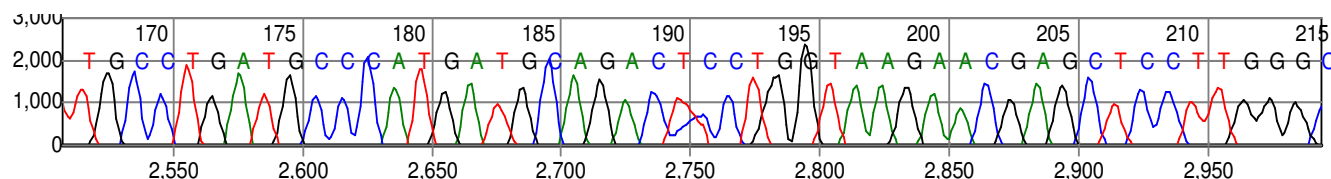
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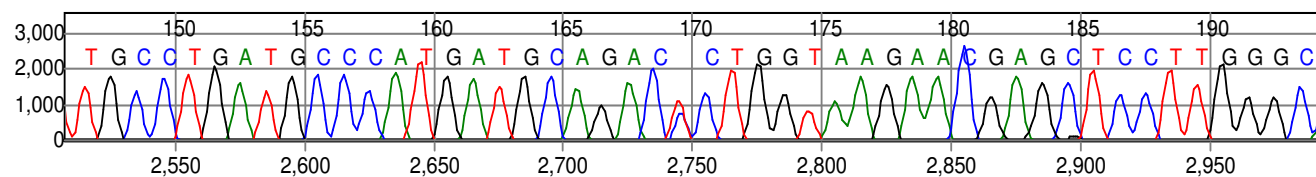
1S<-- TTC7A_17R_PR0096_A12.ab1 Mutations: 276C>CT\$23.6



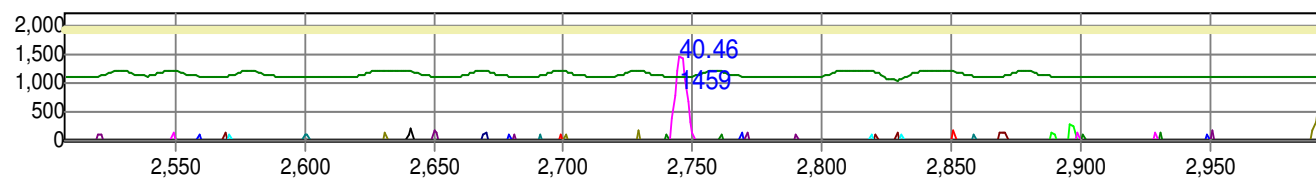
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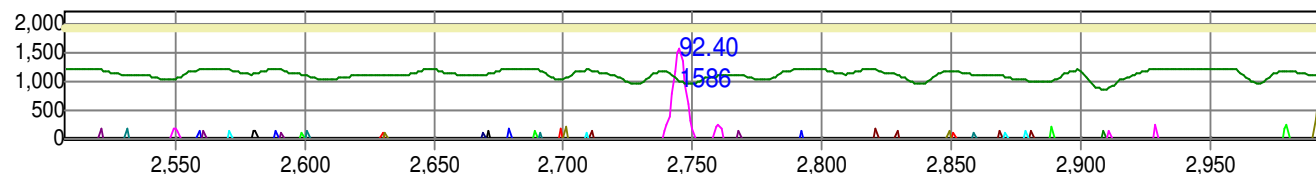
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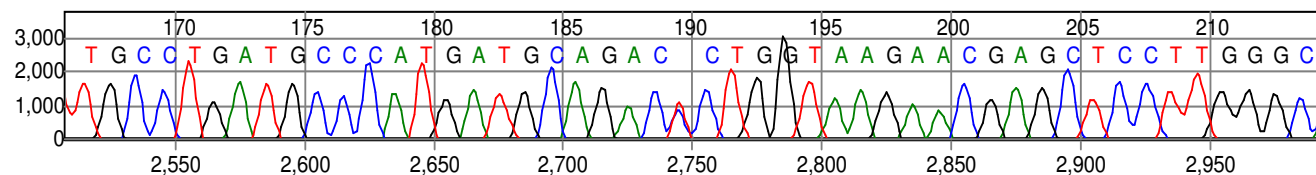
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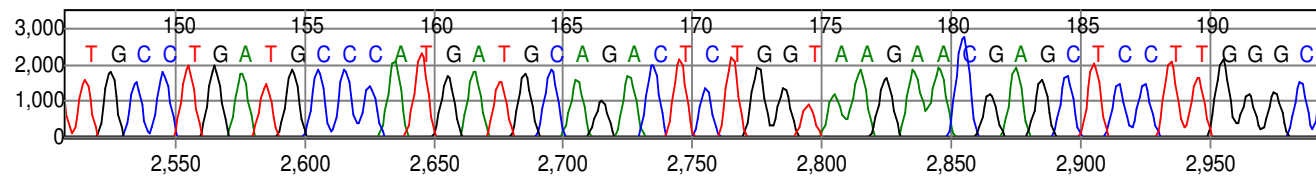
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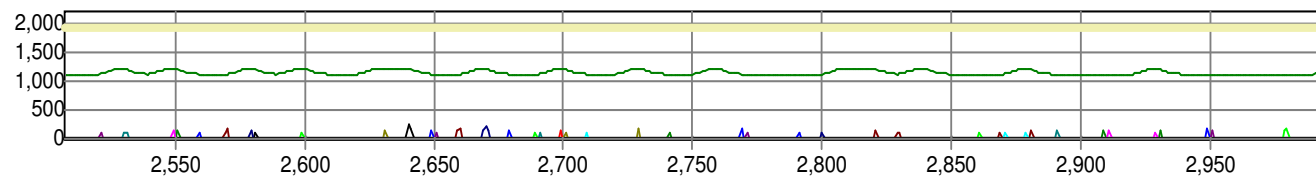
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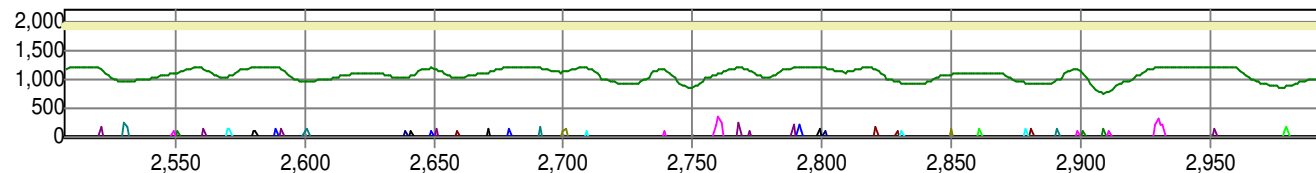
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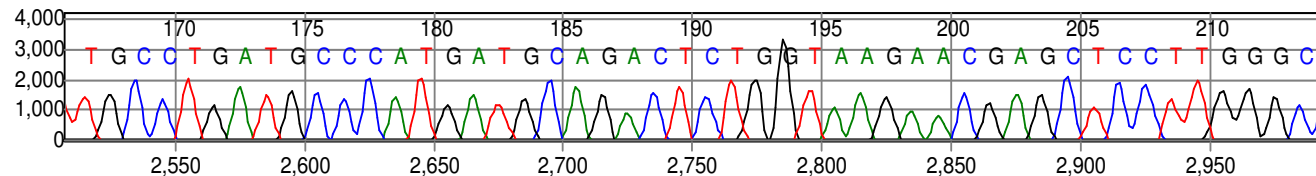
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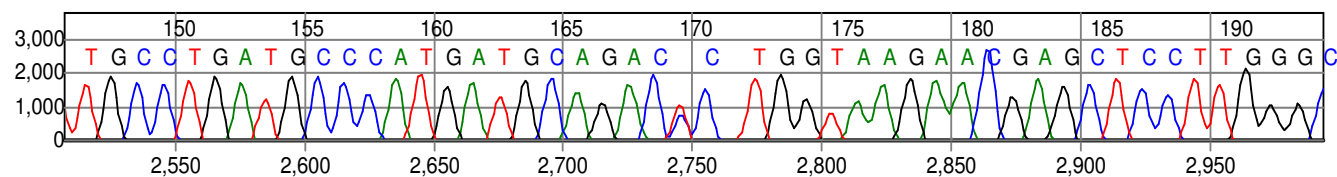
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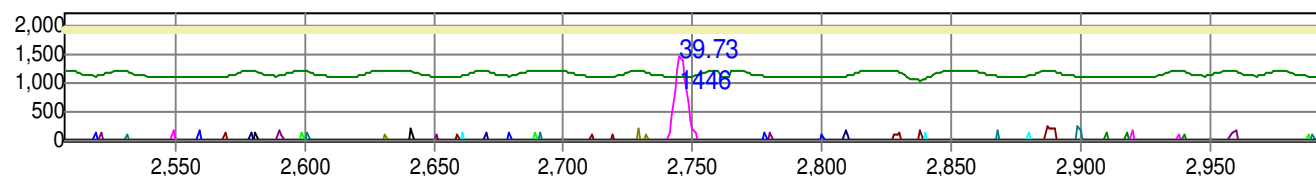
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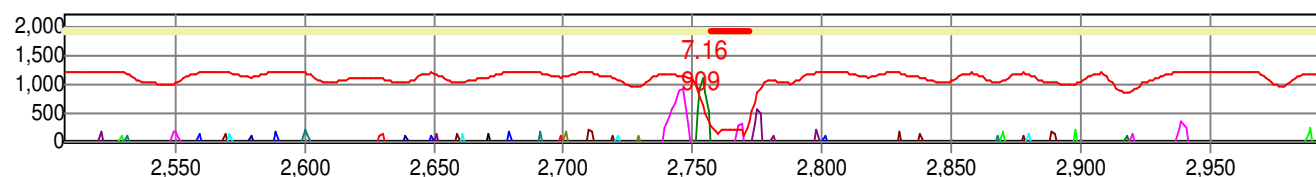
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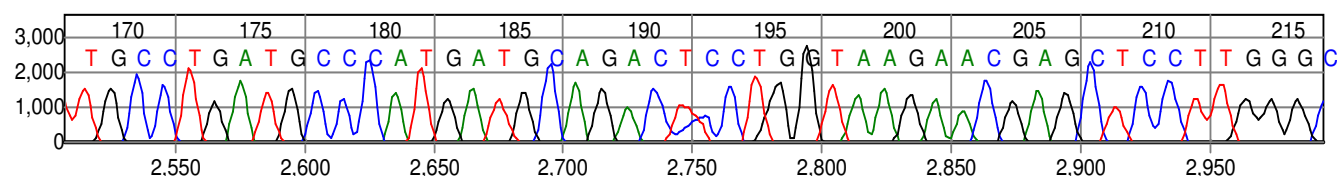
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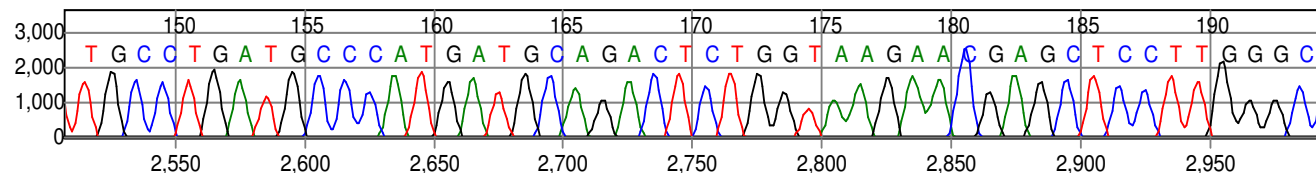
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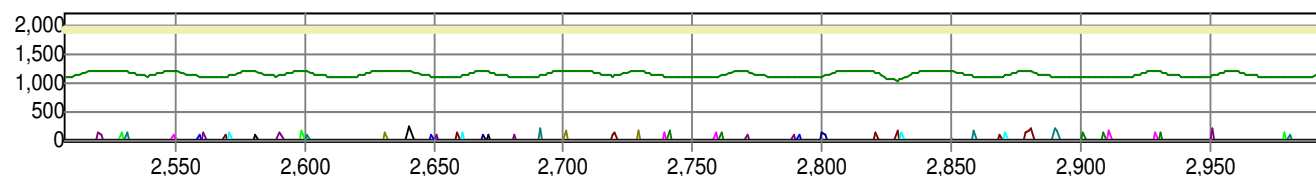
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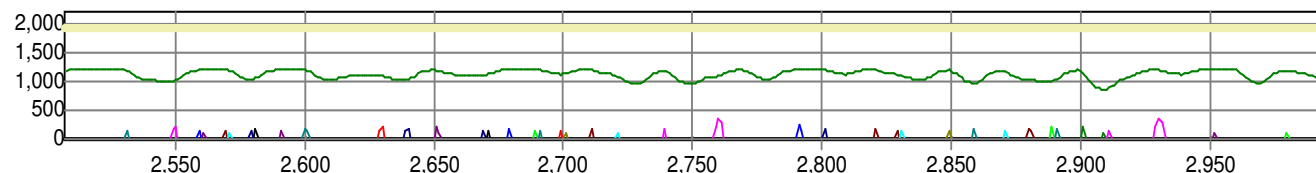
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1S--> TTC7A_17F_SONP0145_B09.ab1



1S<-- TTC7A_17R_SONP0145_B10.ab1



1S<-- TTC7A_17R_SONP0145_B10.ab1<--

