```
CLUSTAL 2.1 multiple sequence alignment


foundBP4col3          CNNATGATTTTNNTTTGACTGATAGTGACCNGTTCGTTGCAACAAATTGATGAGCAATGC 60
expected_4_YF42       ------------------------------------------------------------


foundBP4col3          TTTTTTATAATGCCAACTTTGTACAAAAAAGTTGGCACCGATCTTAAGGCTAGAGTACTA 120
expected_4_YF42       ------------------------------------------------------------


foundBP4col3          ATACGACTCACTATAGGGAATACAAGCTACTTGTTCTTTTTGCACTCGAGAATTCGCCAC 180
expected_4_YF42       ------------------------------------------------------------


foundBP4col3          CATGTCCAGATTAGATAAAAGTAAAGTGATTAACAGCGCATTAGAGCTGCTTAATGAGGT 240
expected_4_YF42       -ATGTCCAGATTAGATAAAAGTAAAGTGATTAACAGCGCATTAGAGCTGCTTAATGAGGT 59
                       ***********************************************************

foundBP4col3          CGGAATCGAAGGTTTAACAACCCGTAAACTCGCCCAGAAGCTAGGTGTAGAGCAGCCTAC 300
expected_4_YF42       CGGAATCGAAGGTTTAACAACCCGTAAACTCGCCCAGAAGCTAGGTGTAGAGCAGCCTAC 119
                      ************************************************************

foundBP4col3          ATTGTTTTGGCATGTAAAAAATAAGCGGGCTTTGCTCGACGCCTTGGCCATTGAGATGTT 360
expected_4_YF42       ATTGNNNTGGCATGTAAAAAATAAGCGGGCTTTGCTCGACGCCTTAGCCATTGAGATGTT 179
                      ****...**************************************.**************

foundBP4col3          AGATAGGCACCATACTCACTTTTGCCCTTTAGAAGGGGAAAGCTGGCAAGATTTTTTACG 420
expected_4_YF42       AGATAGGCACCATACTCACTTTTGCCCTTTAGAAGGGGAAAGCTGGCAAGATTTTTTACG 239
                      ************************************************************

foundBP4col3          TAATAACGCTAAAAGTTTTAGATGTGCTTTACTAAGTCATCGCGATGGAGCAAAGGTACA 480
expected_4_YF42       TAATAACGCTAAAAGTTTTAGATGTGCTTTACTAAGTCATCGCGATGGAGCAAAAGTACA 299
                      ******************************************************.*****

foundBP4col3          TTTAGGTACACGGCCTACAG-AAAACAGTATGAAGCTCTCGAAAATCAATTAGCCTCTTT 539
expected_4_YF42       TTTAGGTACACGGCCTACAGAAAAACAGTATGAAACTCTCGAAAATCAATTAGCCTTTTT 359
                      ******************** *************.********************* ***

foundBP4col3          ATGCCAACAAGGTTTTTCACTAGAGAATGCATTATATGCACTCAGCGCTGTGGGGCATTT 599
expected_4_YF42       ATGCCAACAAGGTTTTTCACTAGAGAATGCATTATATGCACTCAGCGCTGTGGGGCATTT 419
                      ************************************************************

foundBP4col3          TACTTTAGGTTGCGTATTGGAAGATCAAGAGCATCAAGTCGCTAAAGAAGAAAGGGAAAC 659
expected_4_YF42       TACTTTAGGTTGCGTATTGGAAGATCAAGAGCATCAAGTCGCTAAAGAAGAAAGGGAAAC 479
                      ************************************************************

foundBP4col3          ACCTACTACTGATAGTATGCCGCCATTATTACGACAAGCTATCGAATTATTTGATCACCA 719
expected_4_YF42       ACCTACTACTGATAGTATGCCGCCATTATTACGACAAGCTATCGAATTATTTGATCACCA 539
                      ************************************************************

foundBP4col3          AGGTGCAGAGCCAGCCTTCTTATTCGGCCTTGAATTGATCATATGCGGATTAGAANAACA 779
expected_4_YF42       AGGTGCAGAGCCAGCCTTCTTATTCGGCCTTGAATTGATCATATGCGGATTAGAAAAACA 599
                      ******************************************************* ****

foundBP4col3          ACTTANATGTGAAAGTGGGTCTGGGGGTTCTCATCATCATCATCATCATTAATAACGACT 839
expected_4_YF42       ACTTAAATGTGAAAGTGGGTCT-------------------------------------- 621
                      ***** ****************

foundBP4col3          CAGGCTGCTACAAAAAANANAANAAAAAAANNAAANAAAACTAGCATAACCCCTTGGGGC 899
expected_4_YF42       ------------------------------------------------------------


foundBP4col3          CTCTAAACGGGTCTTGAGGGGTTTTTTGTTGCCAACTTTCTTGTACAAAGTTGGCATTAT 959
expected_4_YF42       ------------------------------------------------------------


foundBP4col3          AANAAAGCATTGCTTATCAATTTGTTGCAACGAACAGGTCACTATCAGTCAAA 1012
expected_4_YF42       -----------------------------------------------------
```

Lilia S 17.8.11 14:54

Commentaire [1]: Silent mutation position 55 Leucine

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Commentaire [2]: Silent mutation lysine position 98

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Commentaire [3]: DELETION position E107

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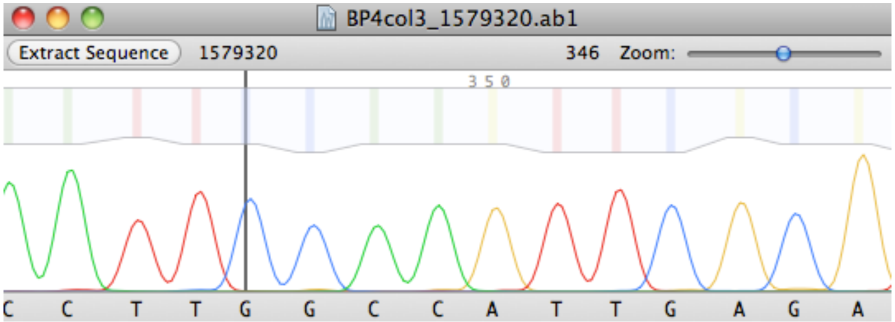
Commentaire [4]: Mutation Threonine to Alanine position 112

Lilia S 17.8.11 15:01

Commentaire [5]: Position 119 serine instead of phenylalanine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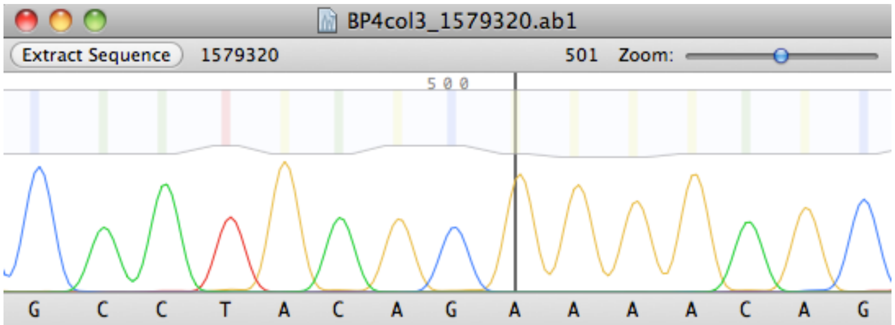
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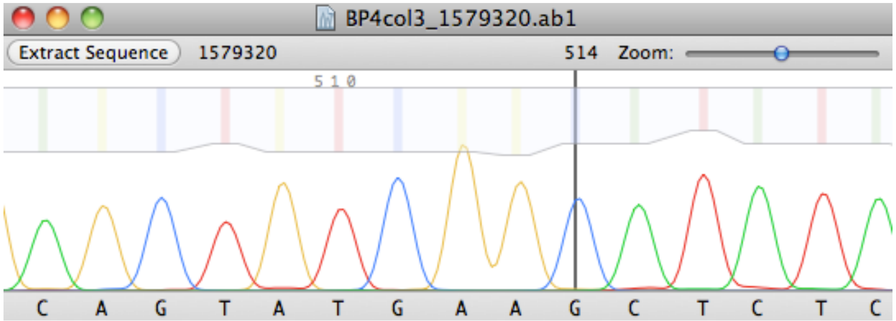
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