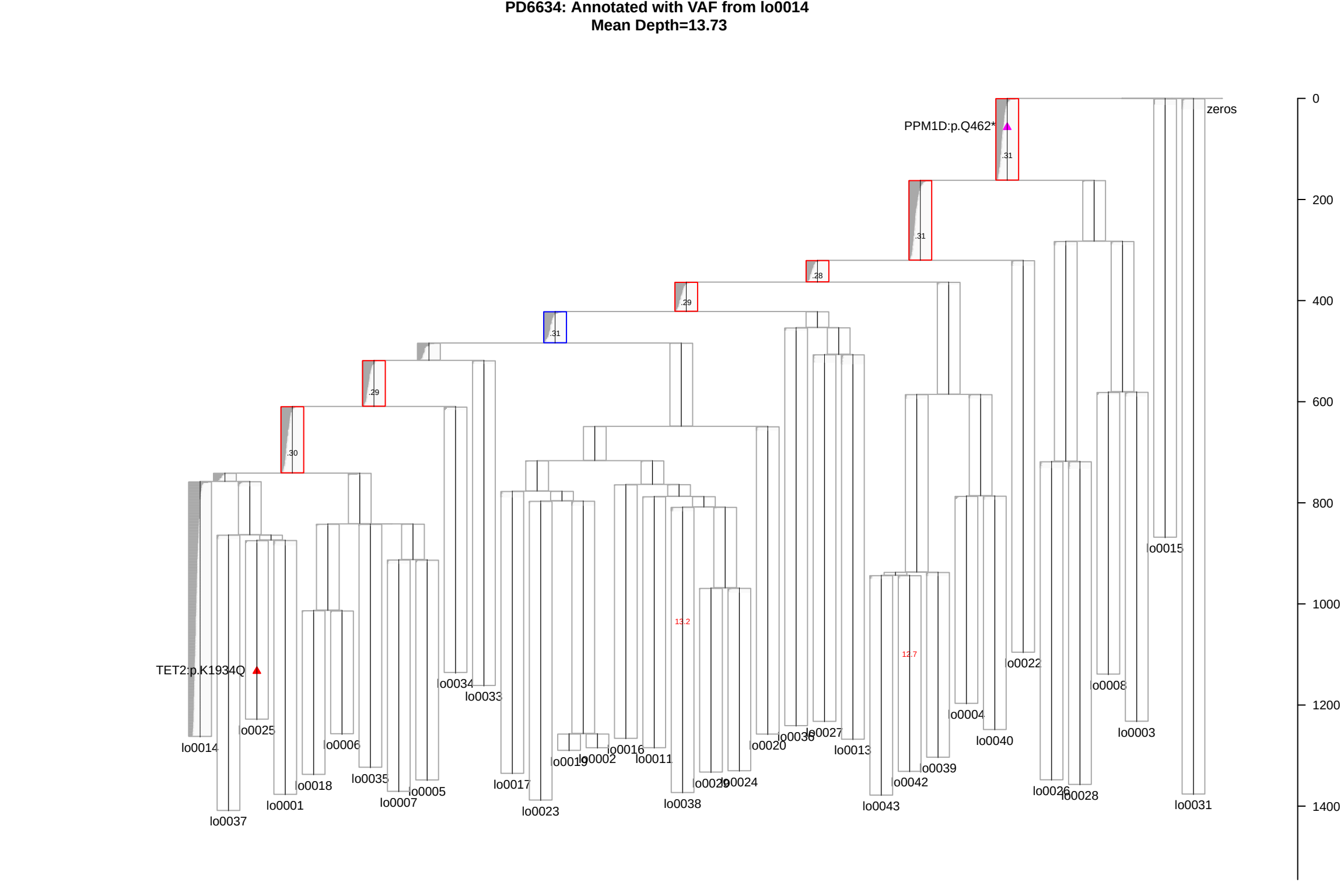
Tree By Colony Quality Assessment

This file reports the VAF distribution of the variants assigned to each branch on a per colony basis. This allows one to 'walk through' the trees on a per colony basis to visualise both the branch placement and VAF of all the variants present in that single colony with respect to the rest of the tree. This is particularly helpful to ensure that variants belonging to a single colony are not found in non-ancestral branches whilst also allowing one to assess if other branches in the tree suffer from a lack of sensitivity for picking up specific variants. The report includes all colonies - including those that are dropped from the final tree and also some additional samples of interest. For colonies that are in the final tree it is expected that the VAFs will be clonal on branches that are ancestral to the colony of interest and zero for those that are not ancestral. Branches are highlighted if they show significant deviation from this expectation (VAF<0.35 and VAF>0.05; Binomial test on aggregate mutant read count and aggregate depth; blue $p<0.05$ and red $p<0.05$/number of branches). Branches where the depth is significantly lower than the depth of variants across the whole tree are annotated with the branch depth shown in red.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Mean Depth=13.73
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lo0037
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lo0035
lo0007
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lo0022
lo0026
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lo0008
lo0003
lo0015
lo0031
.30
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13.2
12.7
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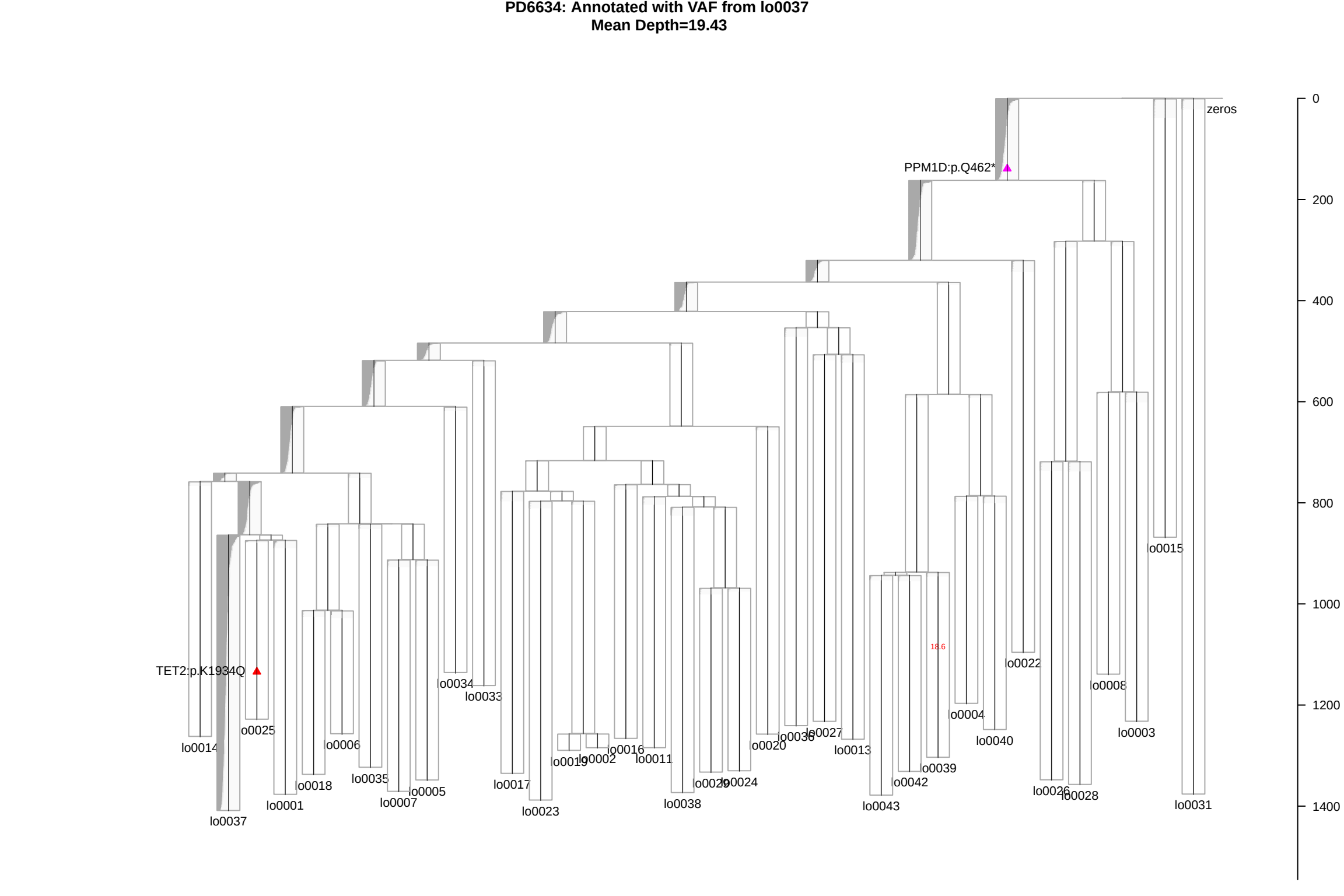
1400


PD6634: Annotated with VAF from lo0037
Mean Depth=19.43
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TET2:p.K1934Q
18.6
lo0037
lo0001
lo0018
lo0014
o0025
lo0006
lo0035
lo0007
lo0005
lo0034
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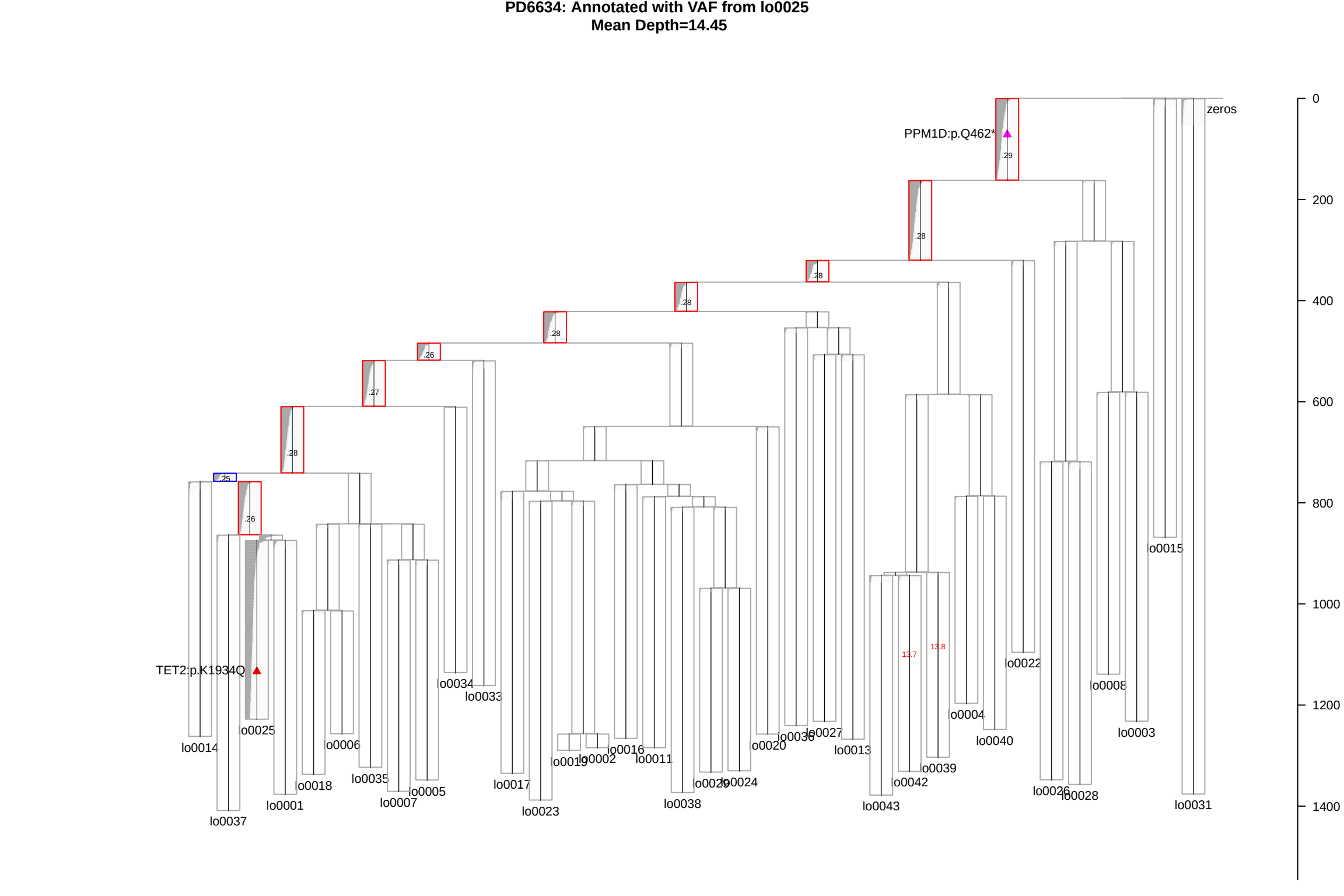
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TET2:p.K1934Q
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lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
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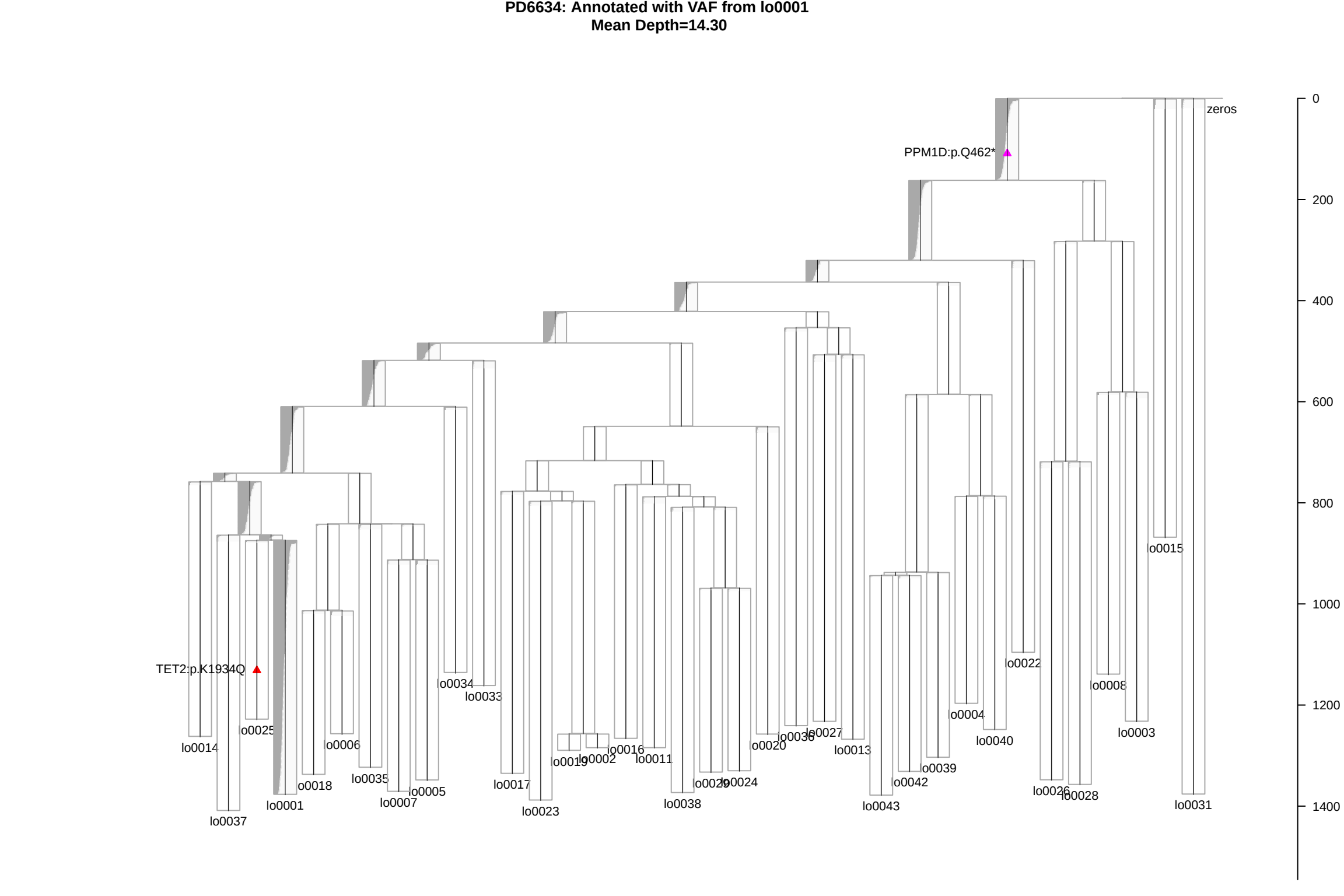
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TET2:p.K1934Q
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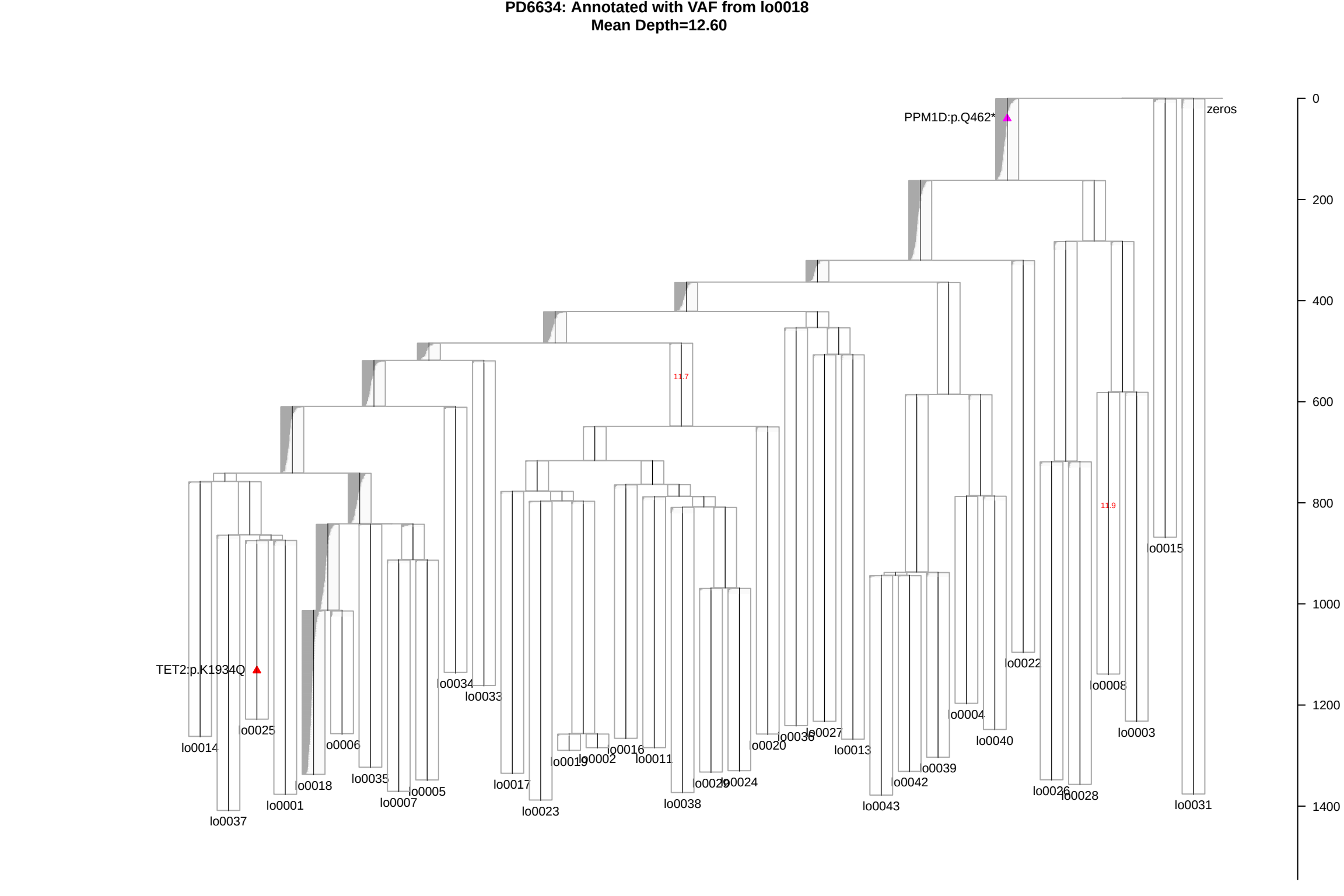
PD6634: Annotated with VAF from lo0018
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TET2:p.K1934Q
11.7
11.9
lo0014
lo0037
lo0025
lo0001
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lo0007
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lo0017
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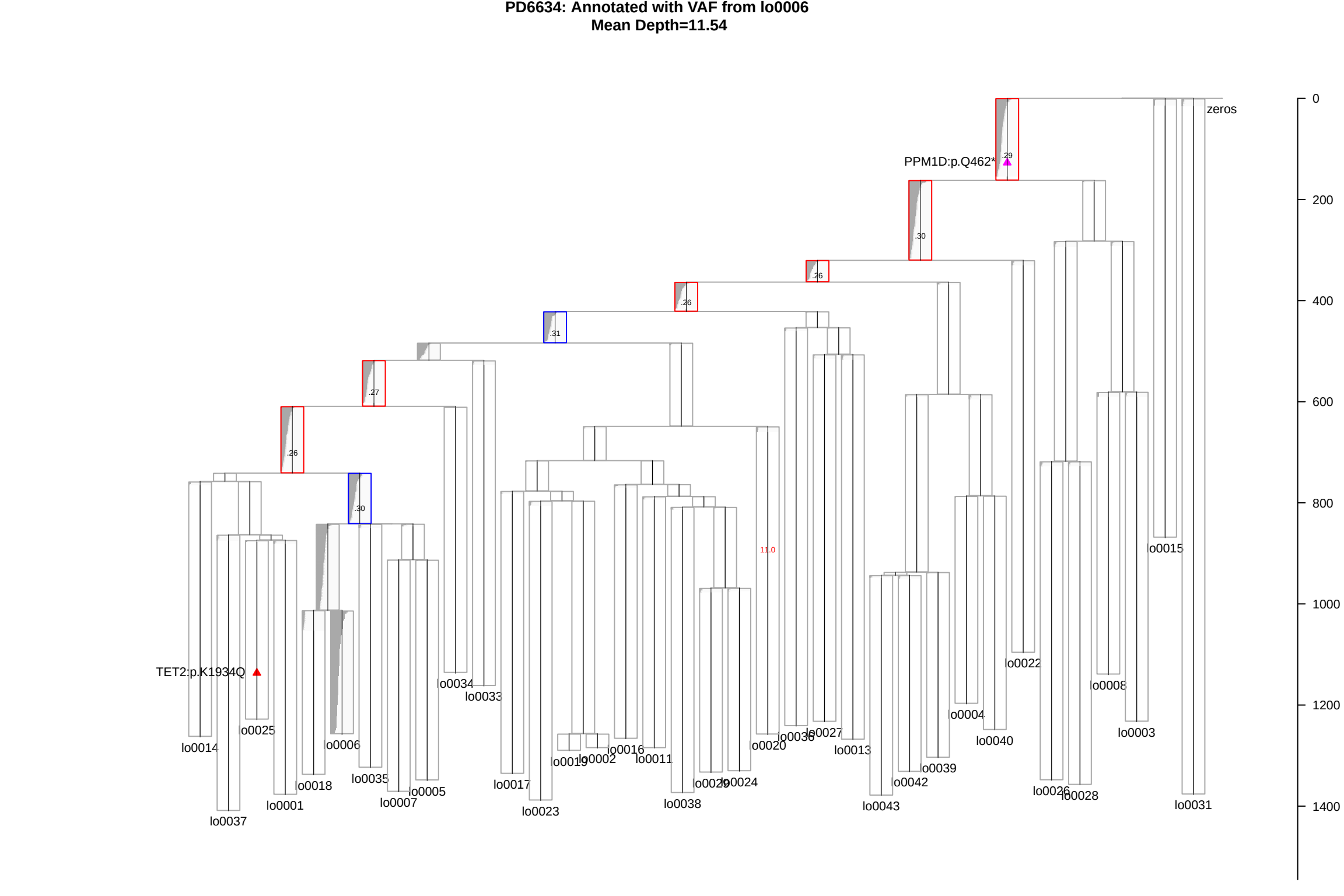
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.26
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.31
.27
.26
.30
11.0
TET2:p.K1934Q
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lo0037
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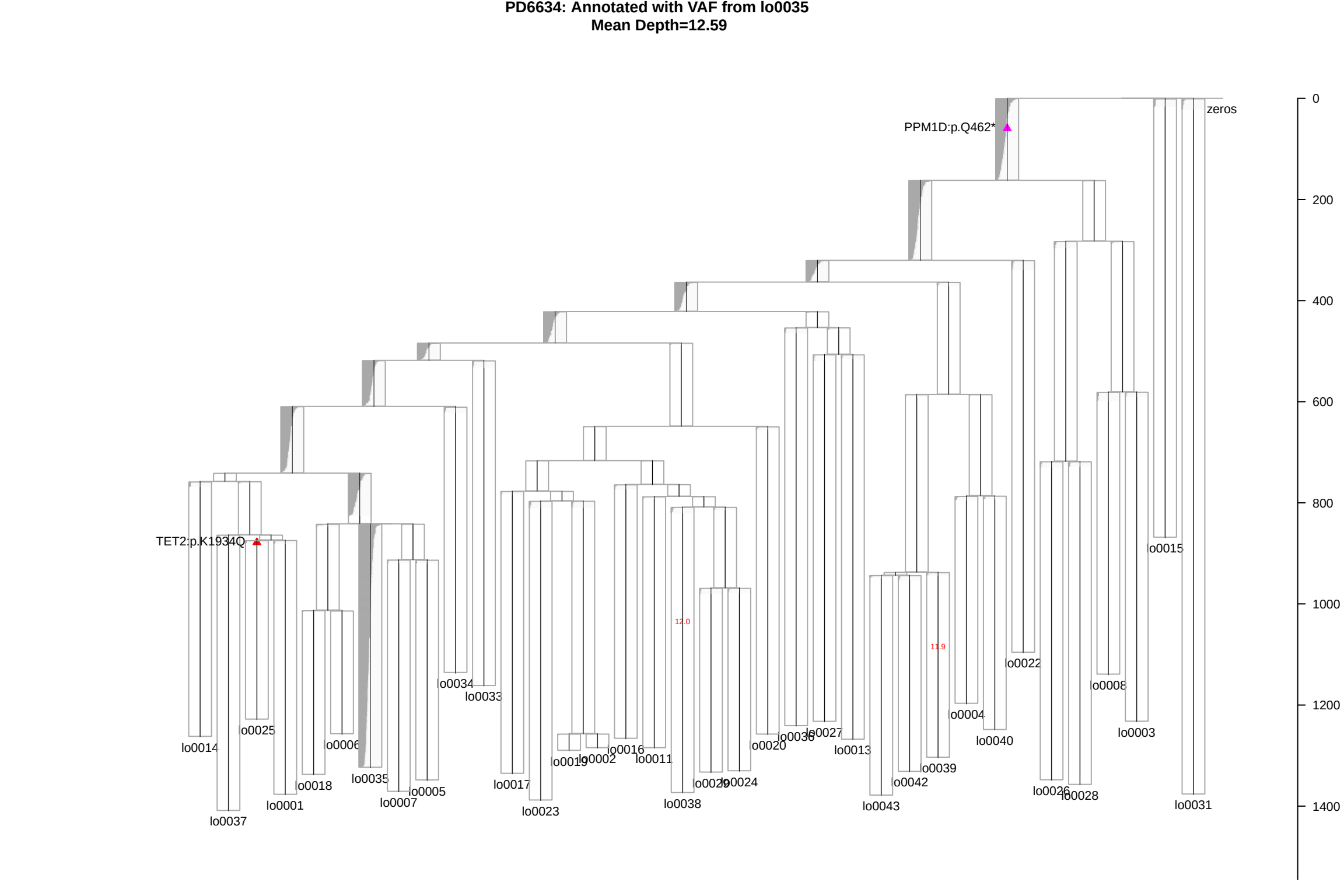
PD6634: Annotated with VAF from lo0035
Mean Depth=12.59
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TET2:p.K1934Q
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11.9
lo0014
lo0037
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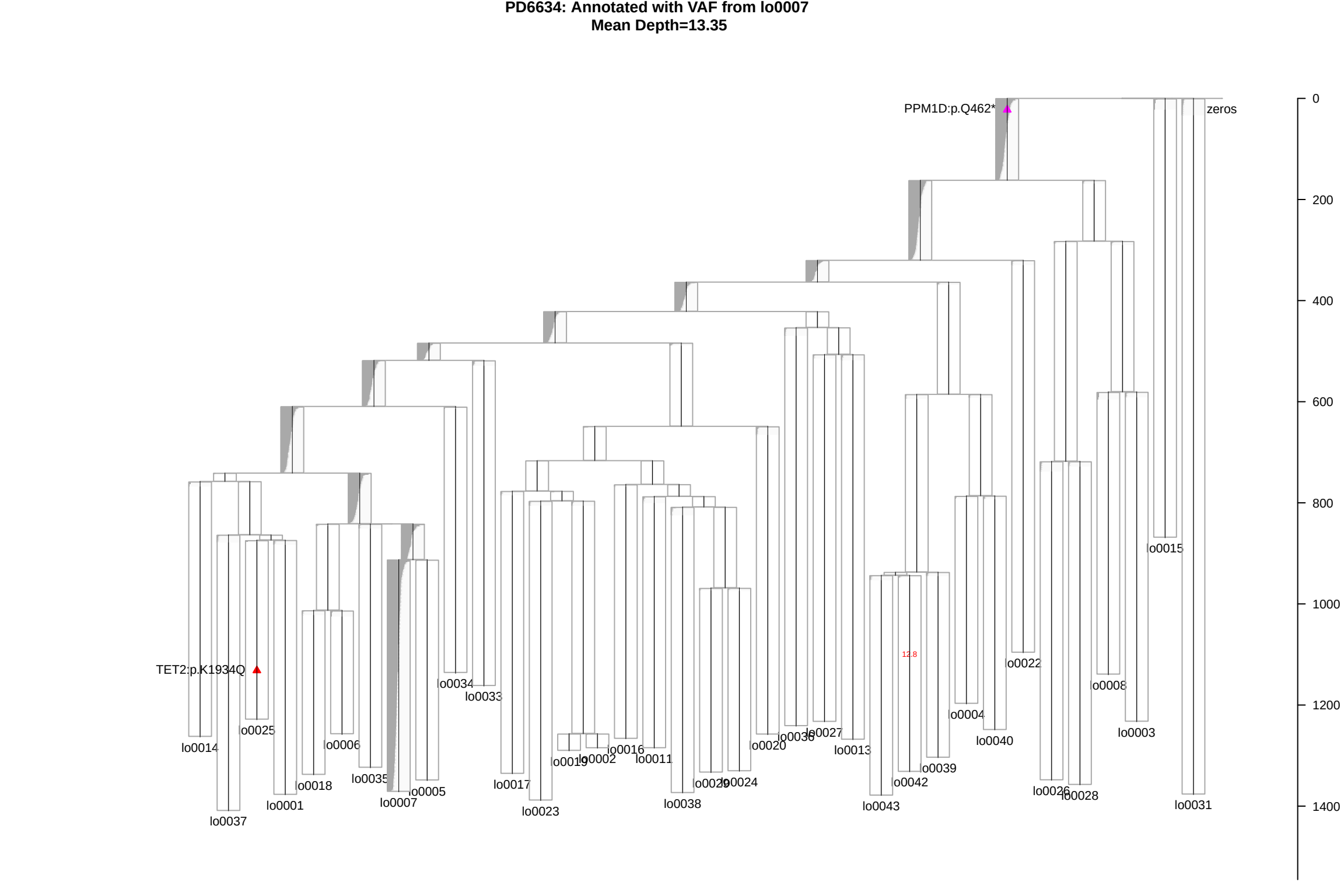
PD6634: Annotated with VAF from lo0007
Mean Depth=13.35
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TET2:p.K1934Q
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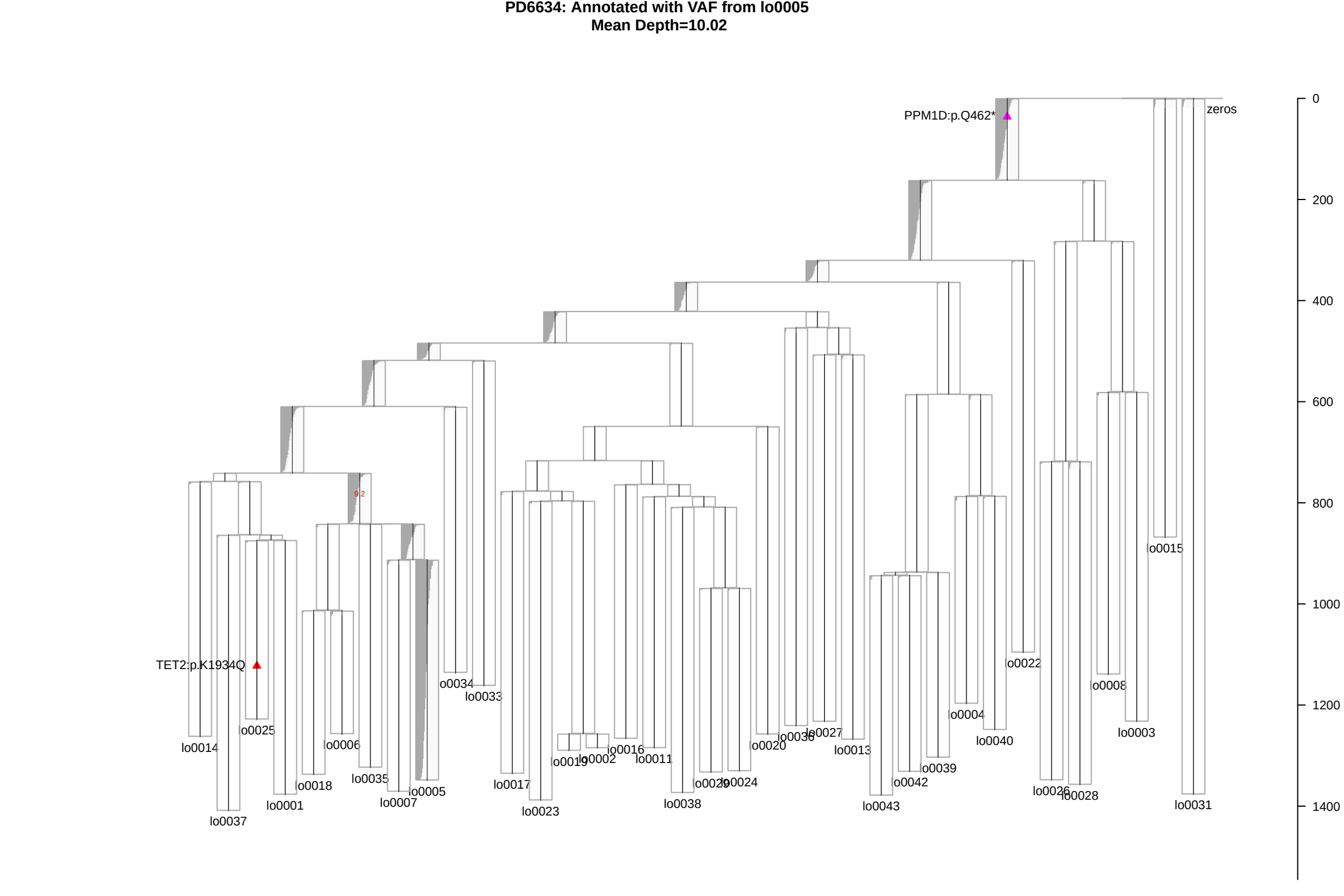
PD6634: Annotated with VAF from lo0005
Mean Depth=10.02
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TET2:p.K1934Q
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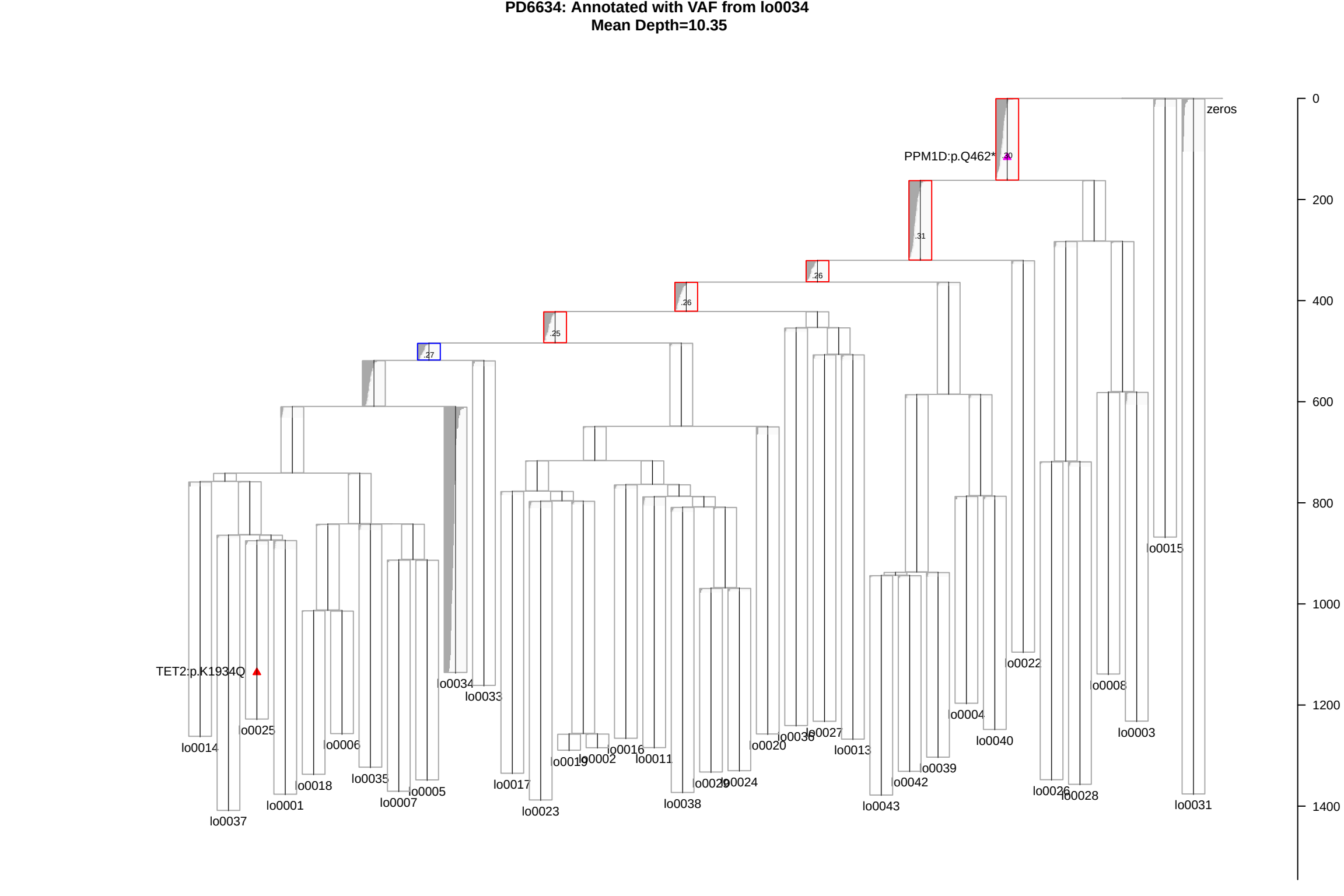
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Mean Depth=10.35
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.27
TET2:p.K1934Q
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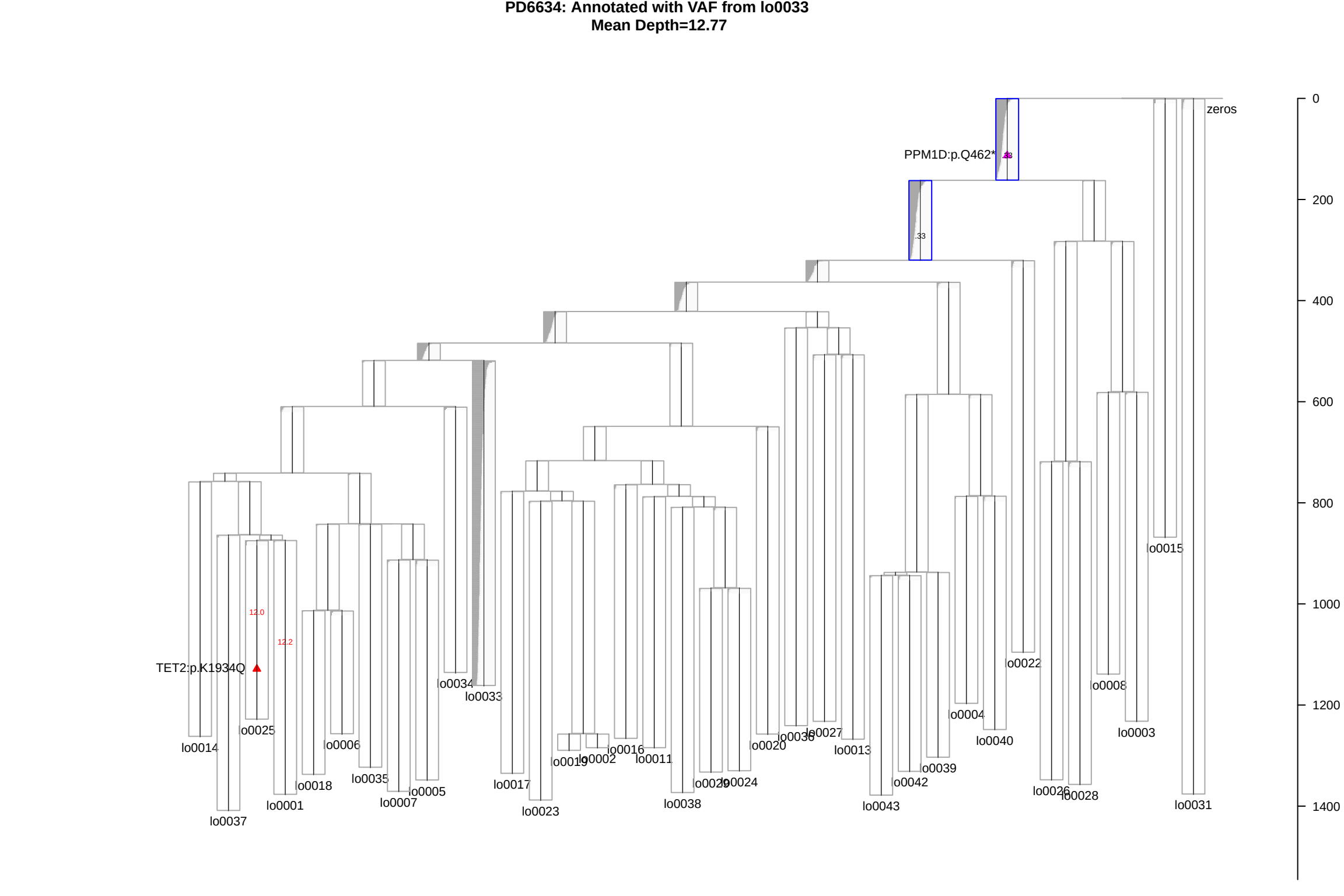
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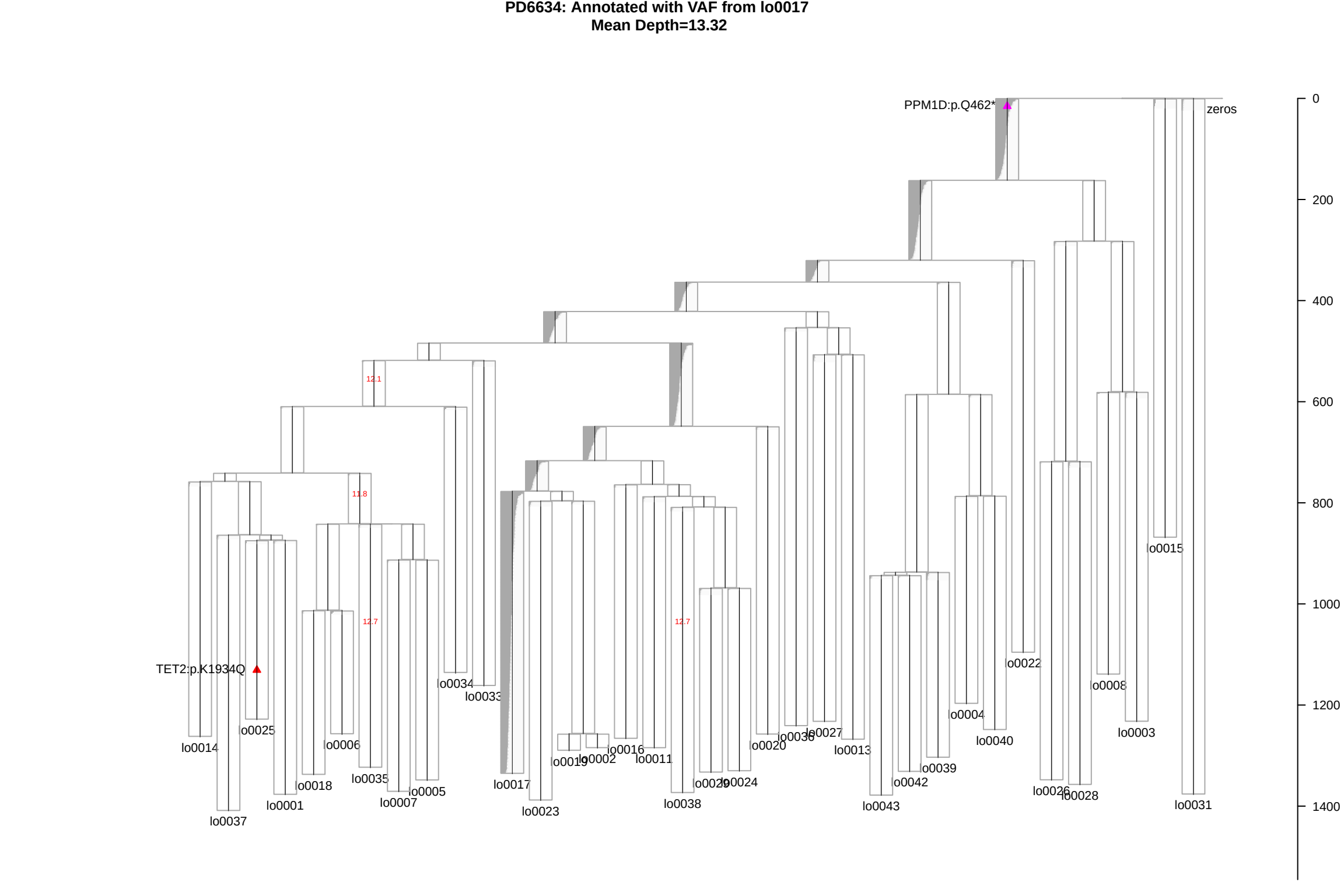
PD6634: Annotated with VAF from lo0017
Mean Depth=13.32
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TET2:p.K1934Q
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11.8
12.7
12.7
lo0014
lo0037
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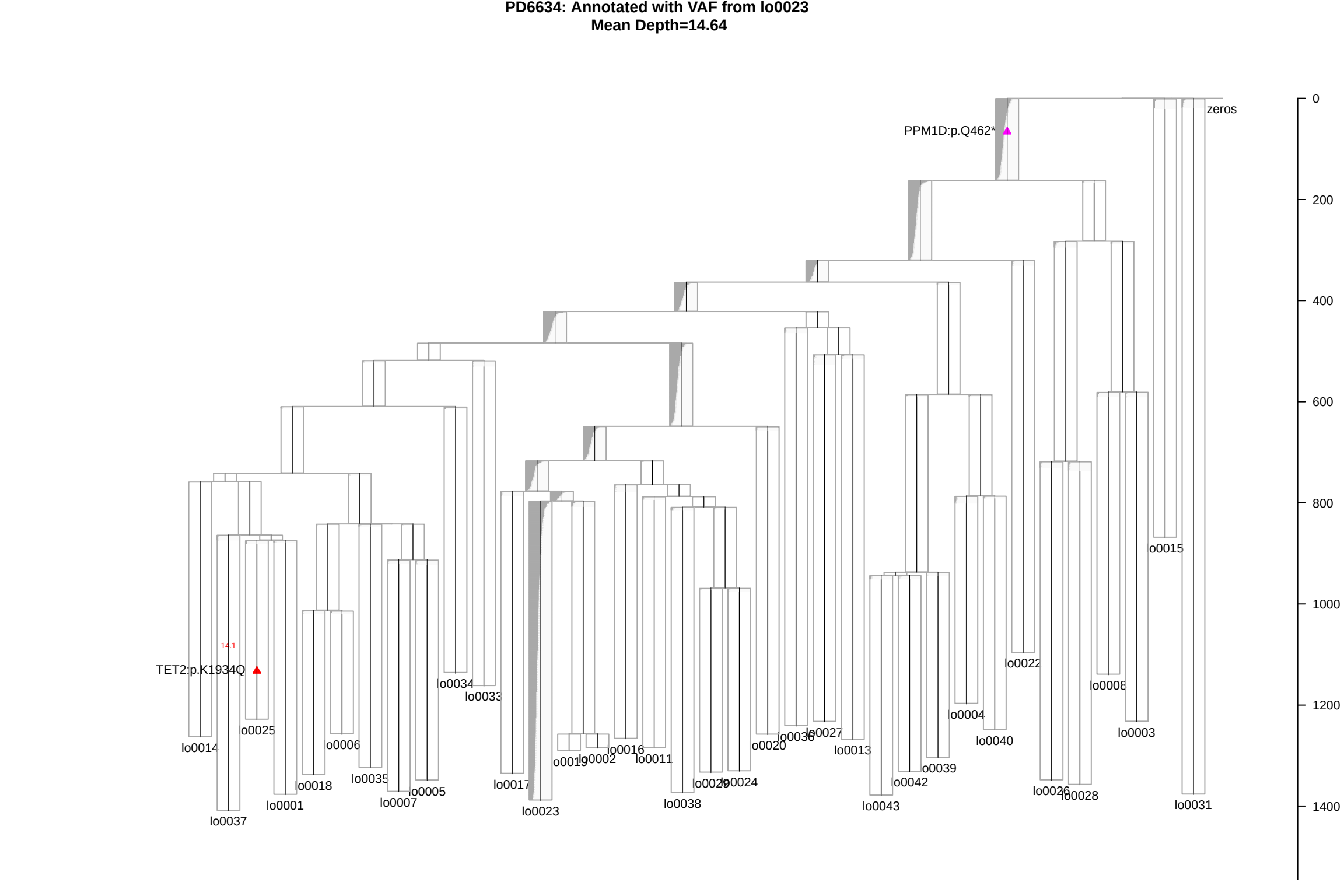
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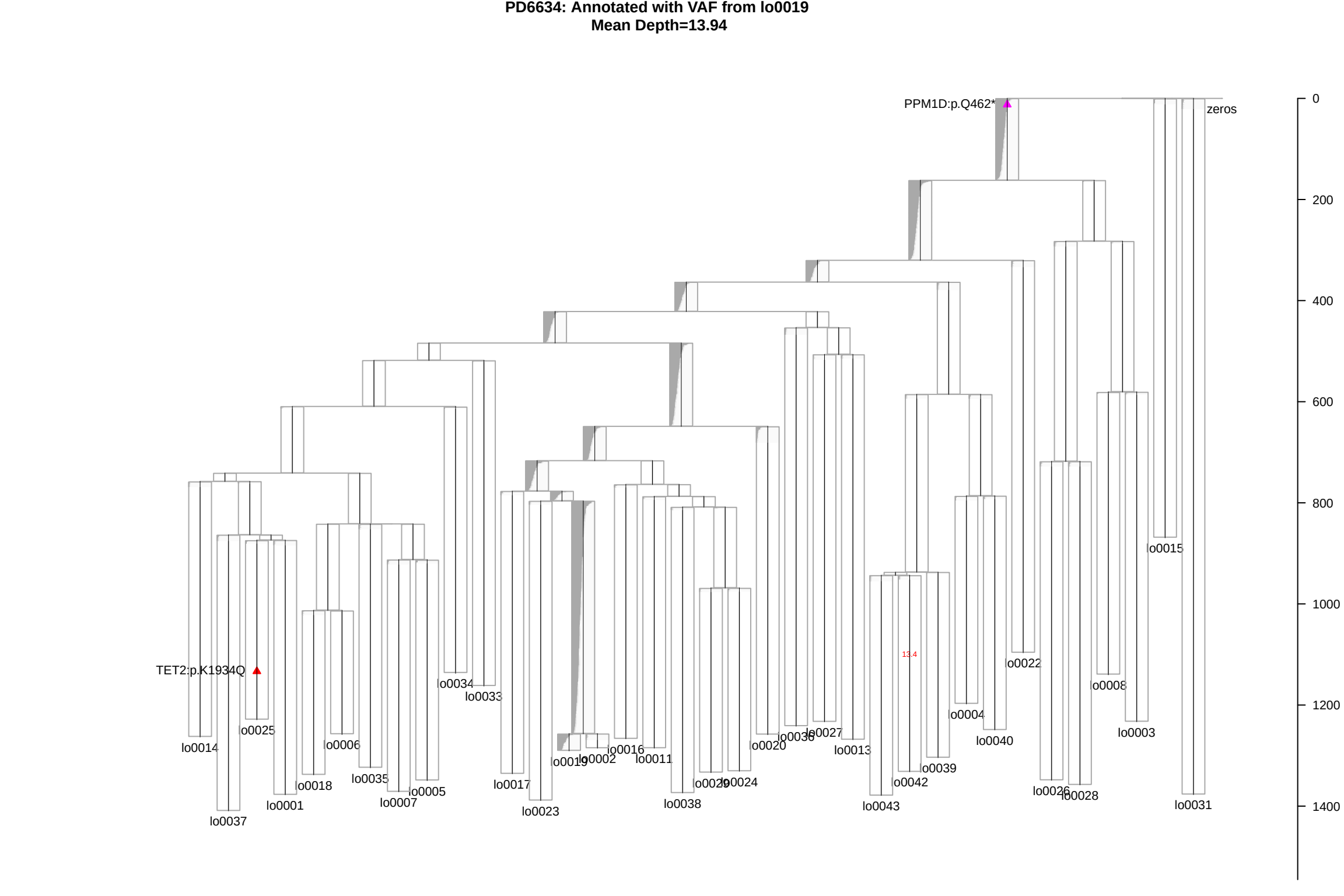
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Mean Depth=13.94
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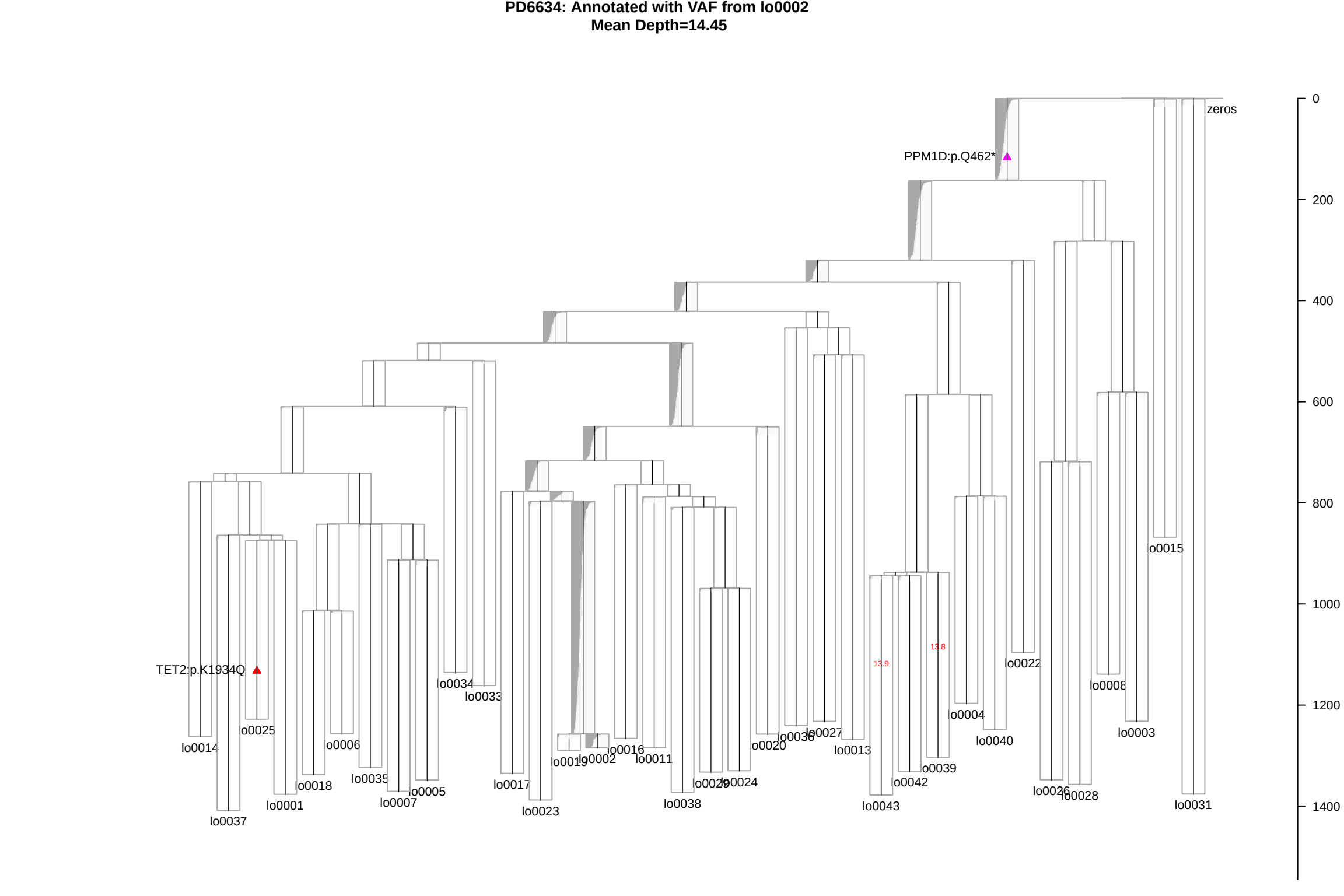
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Mean Depth=14.45
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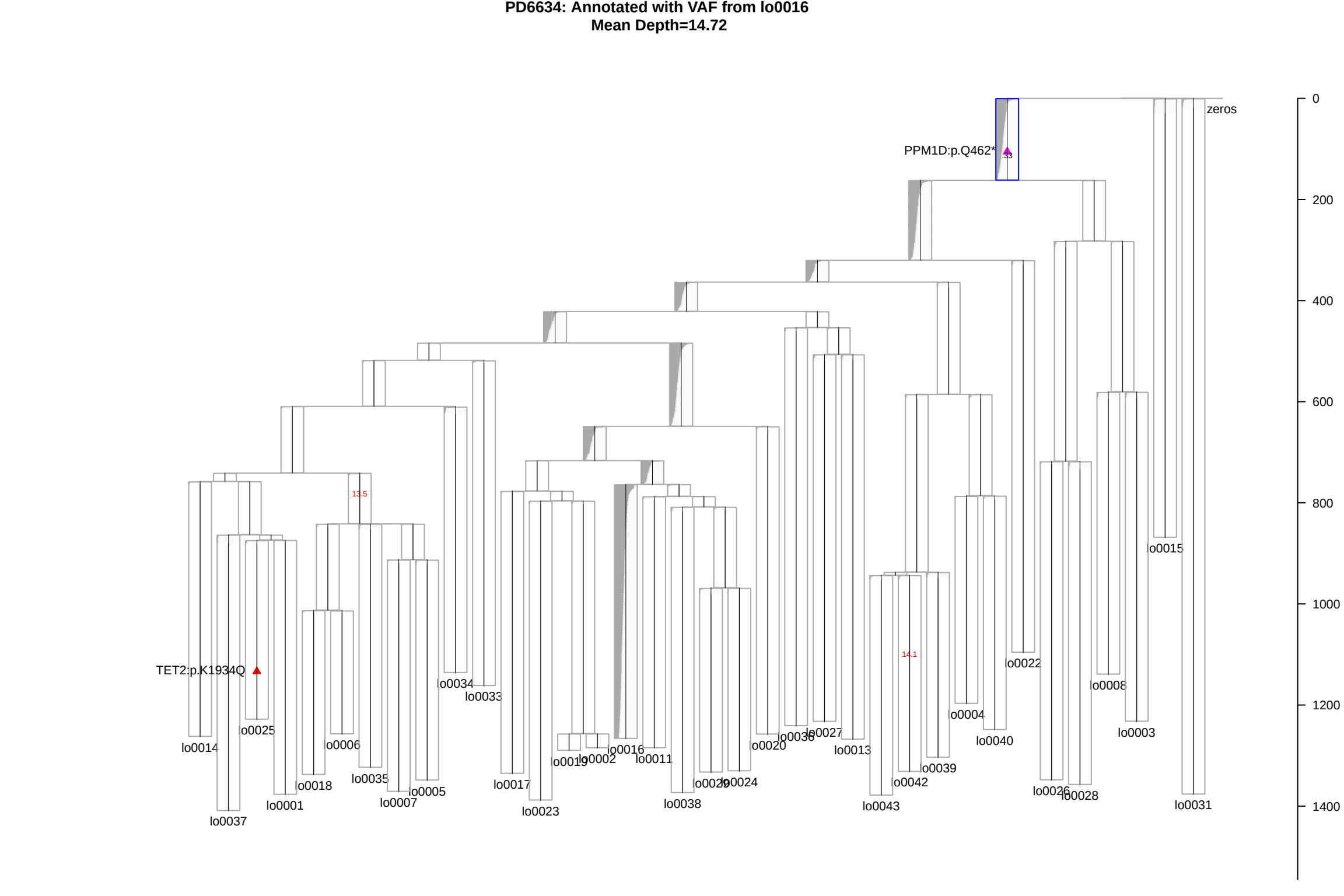
PD6634: Annotated with VAF from lo0016
Mean Depth=14.72
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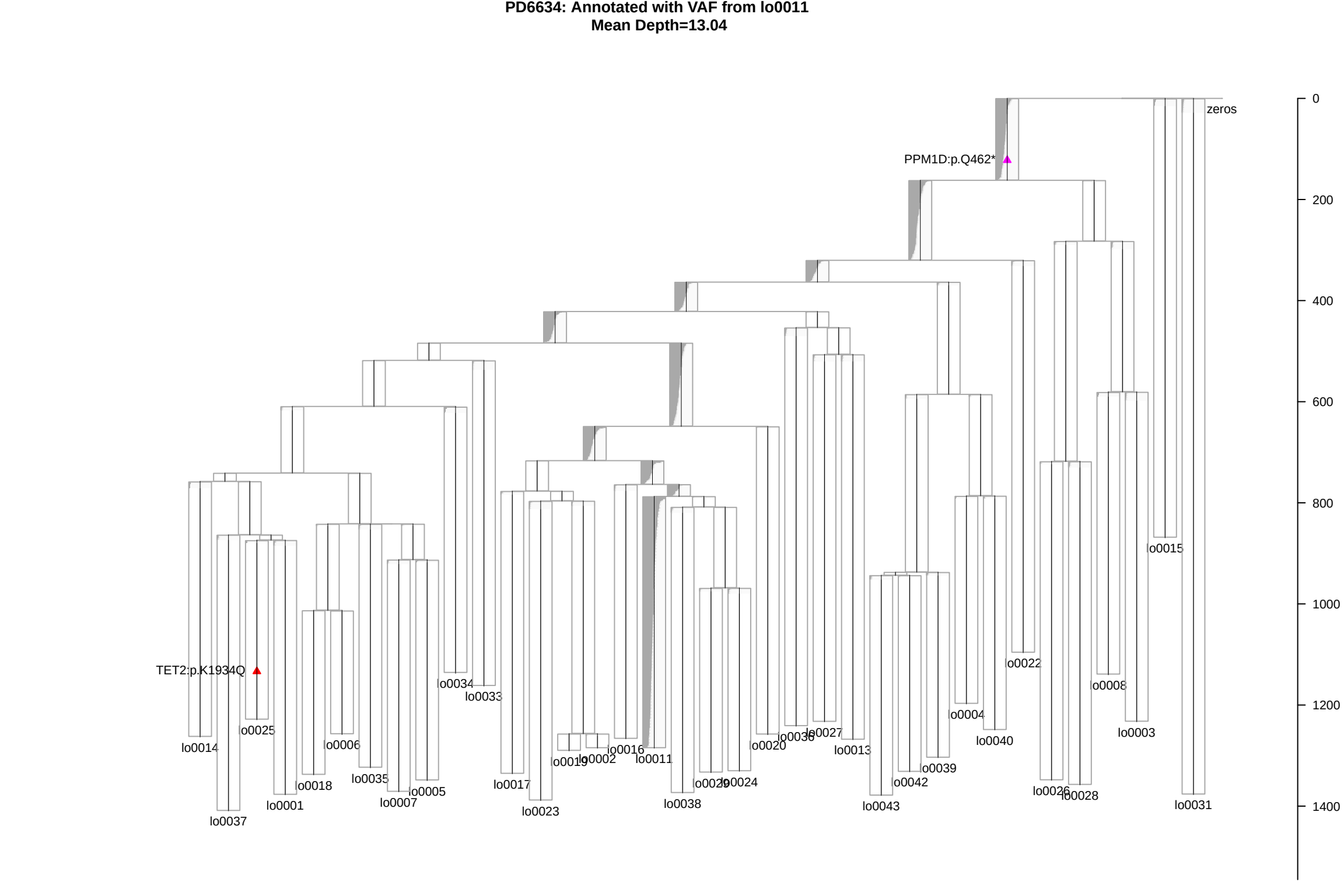
PD6634: Annotated with VAF from lo0011
Mean Depth=13.04
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TET2:p.K1934Q
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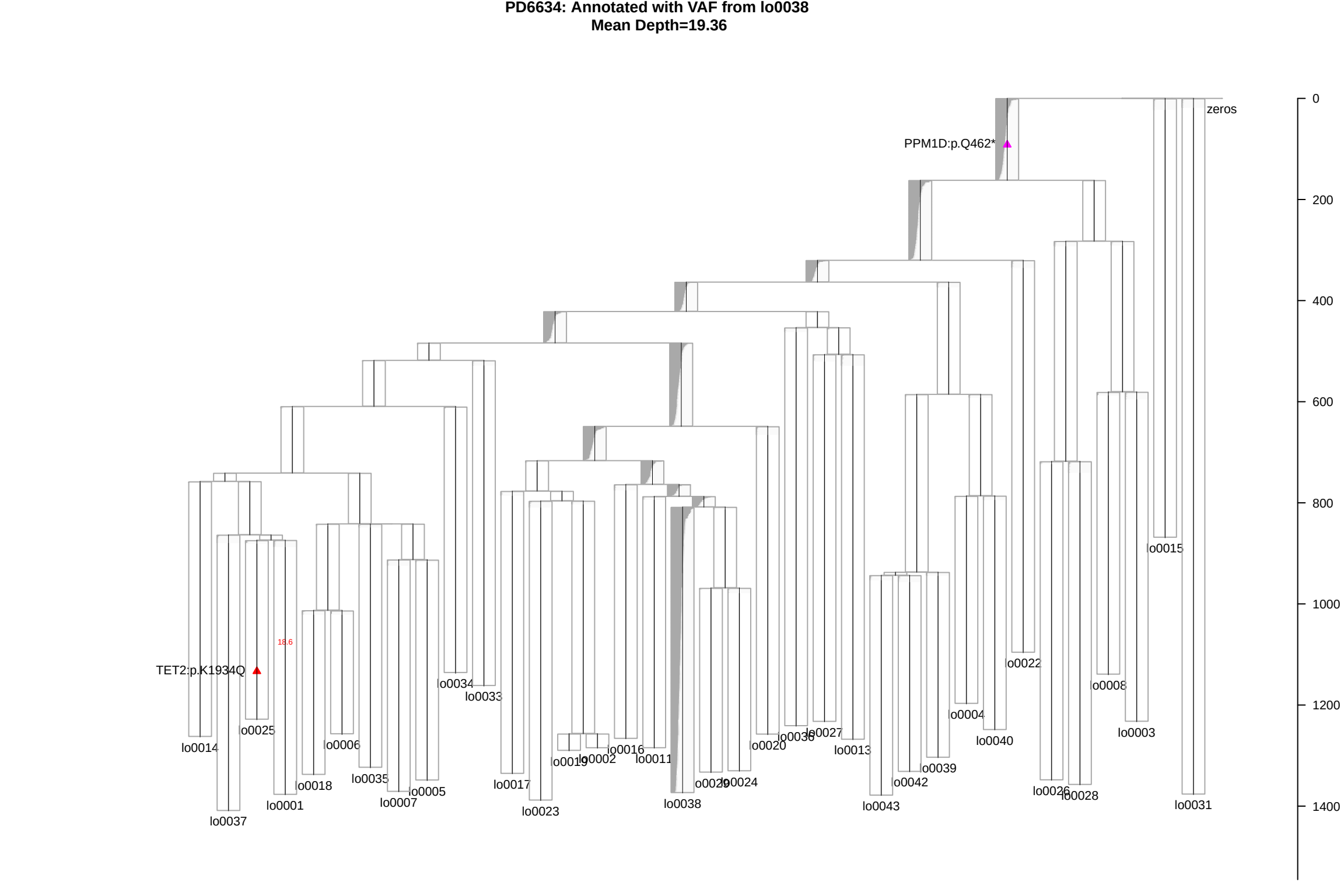
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Mean Depth=19.36
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TET2:p.K1934Q
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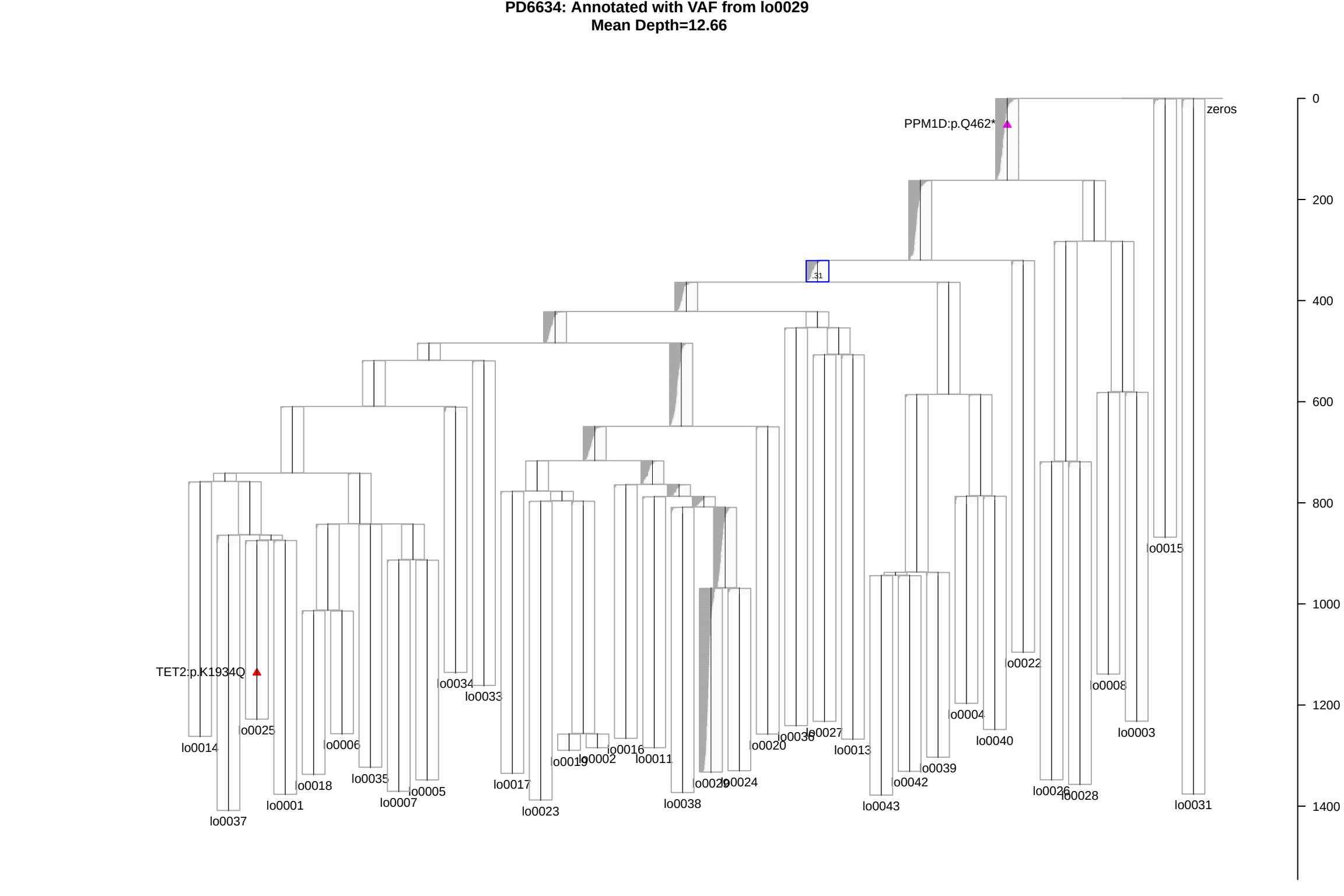
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TET2:p.K1934Q
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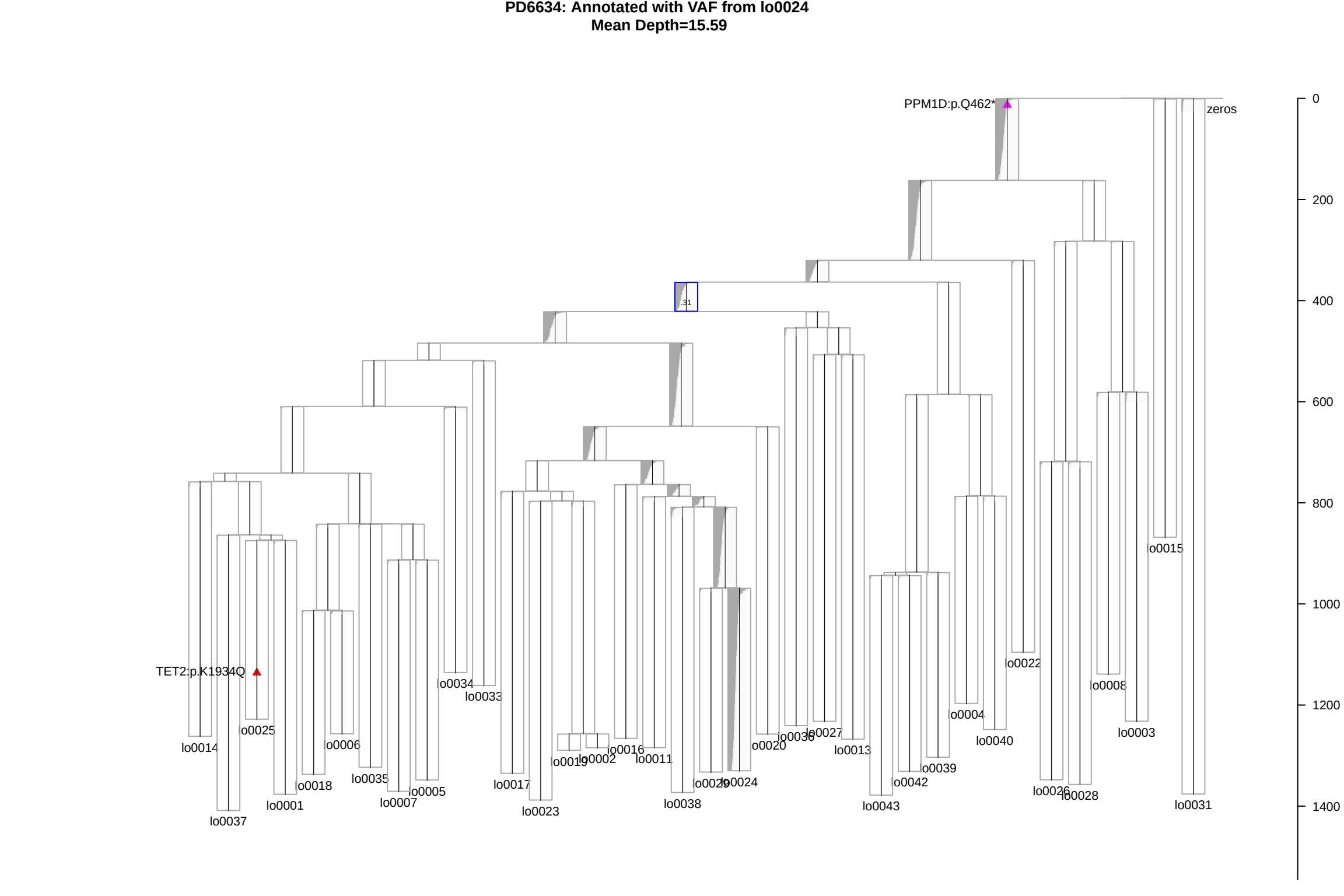
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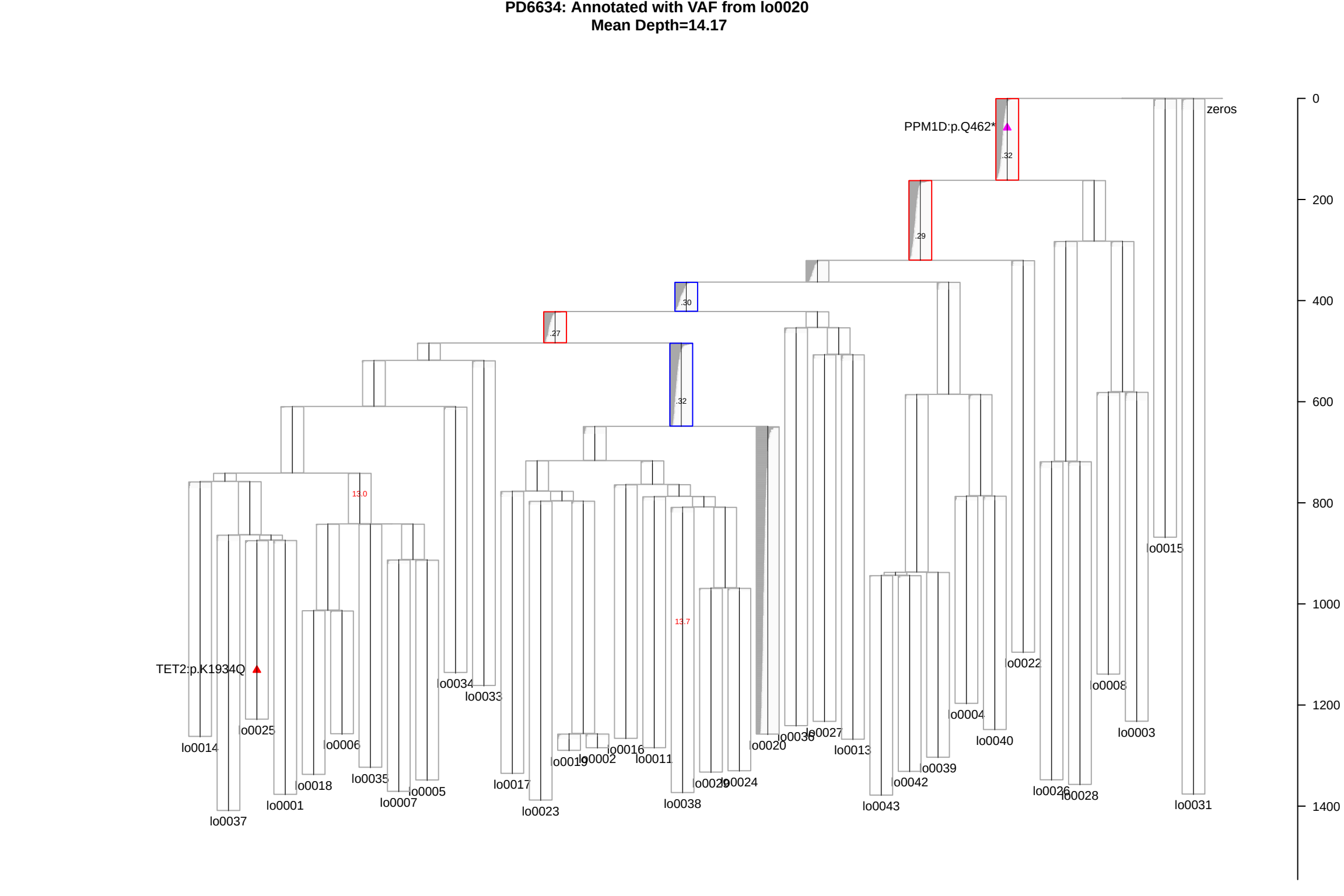
lo0031


PD6634: Annotated with VAF from lo0020
Mean Depth=14.17
zeros
PPM1D:p.Q462*
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.29
.30
.27
.32
13.0
13.7
TET2:p.K1934Q
lo0014
lo0025
lo0006
lo0018
lo0035
lo0005
lo0001
lo0007
lo0037
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
lo0029
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lo0036
lo0027
lo0013
lo0043
lo0042
lo0039
lo0004
lo0040
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lo0026
lo0028
lo0008
lo0003
lo0015
lo0031
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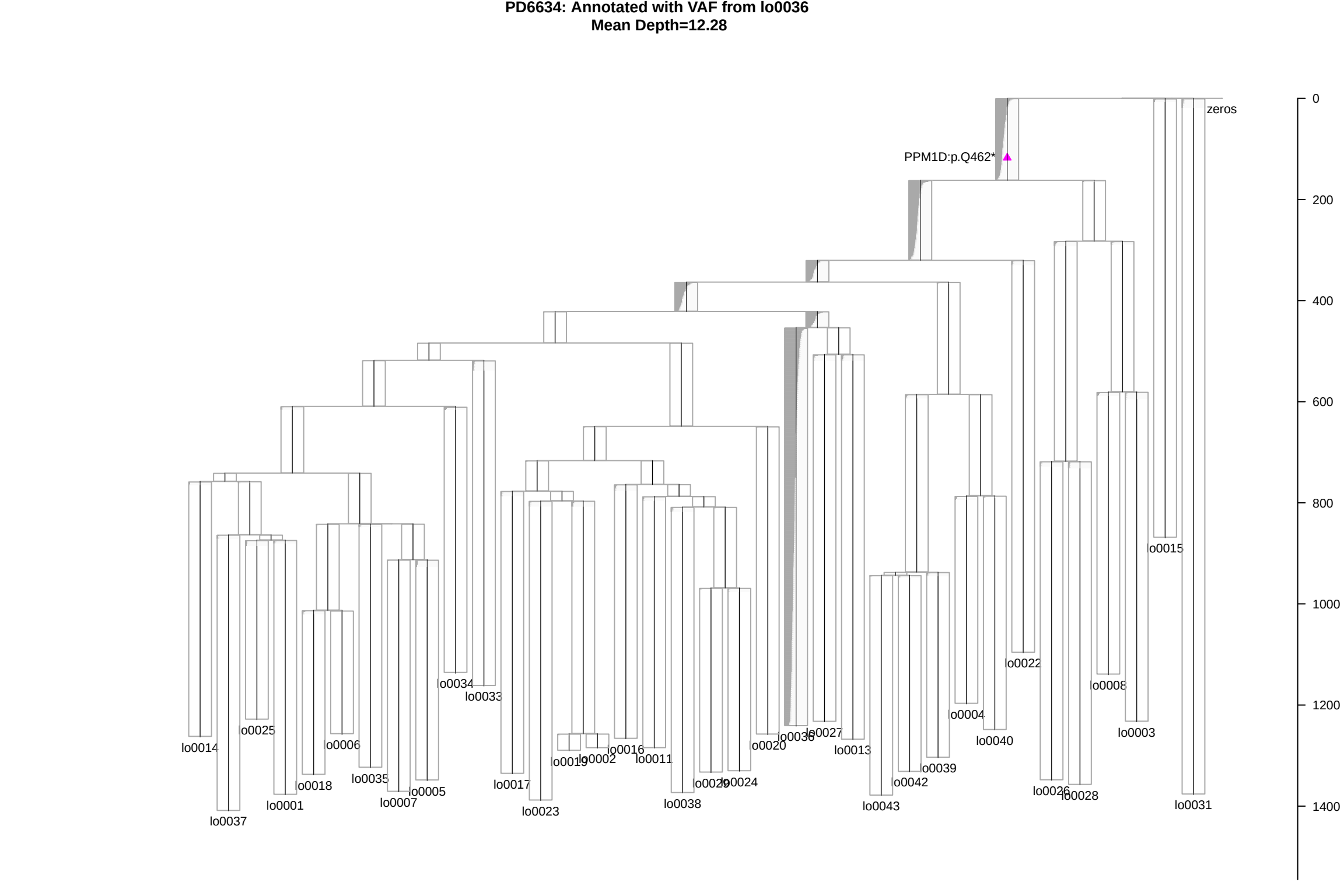
1200
1400


PD6634: Annotated with VAF from lo0036
Mean Depth=12.28
zeros
PPM1D:p.Q462*
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600
800
1000
1200
1400
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
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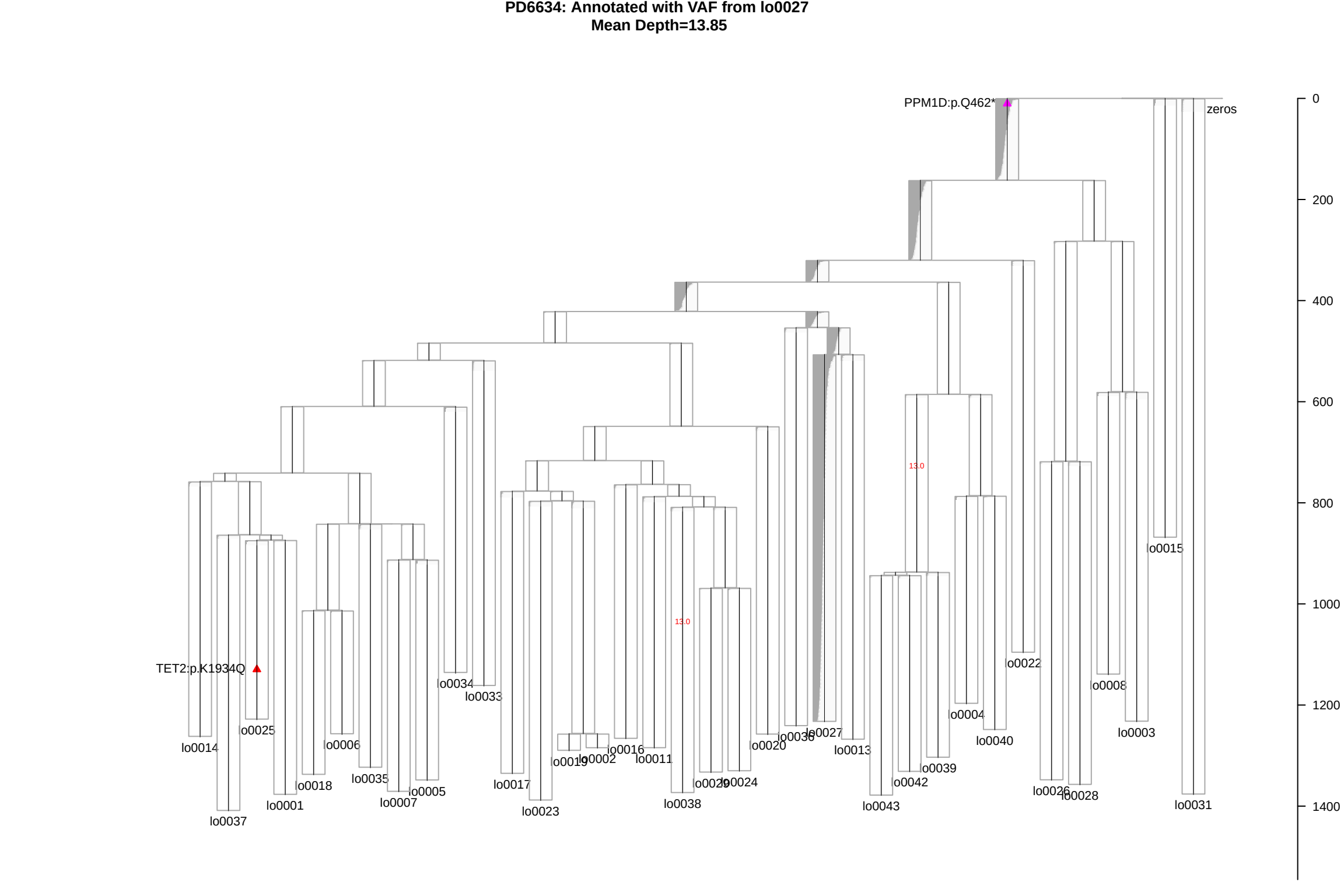
lo0026
lo0028
lo0008
lo0003
lo0015
lo0031


PD6634: Annotated with VAF from lo0027
Mean Depth=13.85
PPM1D:p.Q462*
zeros
TET2:p.K1934Q
13.0
13.0
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
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lo0036
lo0027
lo0013
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lo0042
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lo0008
lo0003
lo0015
lo0031
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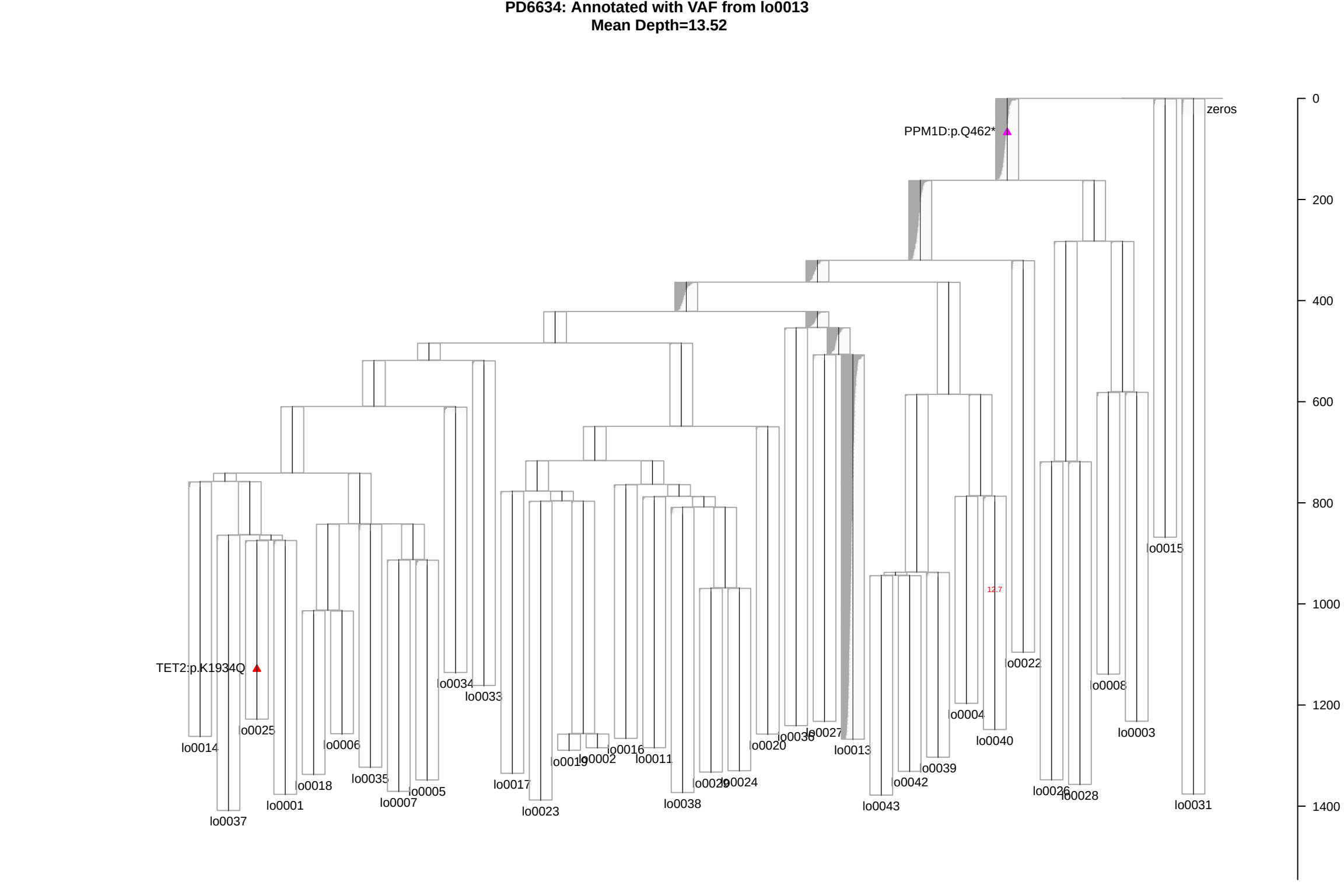
PD6634: Annotated with VAF from lo0013
Mean Depth=13.52
zeros
PPM1D:p.Q462*
TET2:p.K1934Q
12.7
lo0001
lo0002
lo0003
lo0004
lo0005
lo0006
lo0007
lo0008
lo0011
lo0013
lo0014
lo0015
lo0016
lo0017
lo0018
lo0019
lo0020
lo0022
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lo0026
lo0027
lo0028
lo0029
lo0031
lo0033
lo0034
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lo0037
lo0038
lo0039
lo0040
lo0042
lo0043
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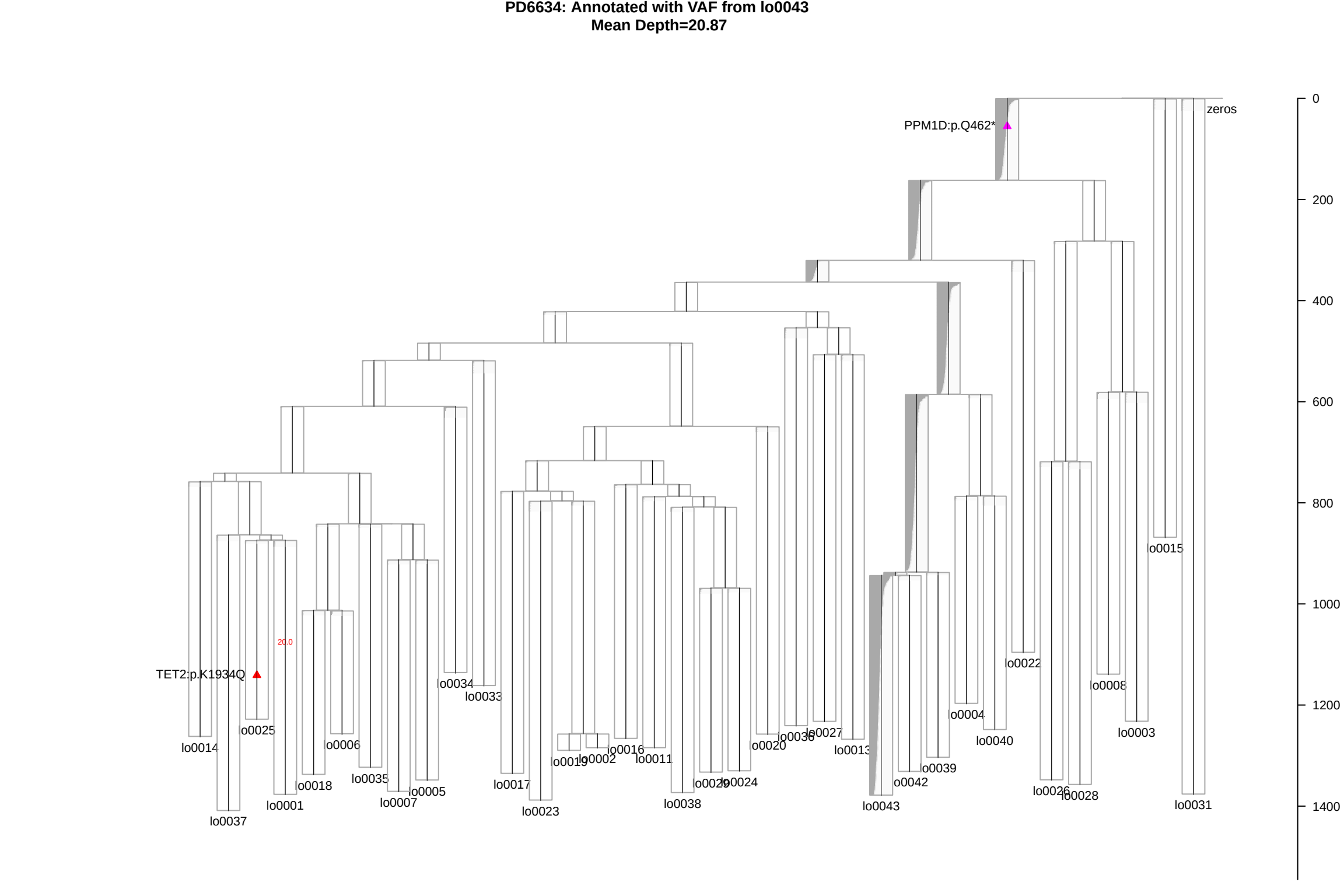
1400


PD6634: Annotated with VAF from lo0043
Mean Depth=20.87
zeros
PPM1D:p.Q462*
TET2:p.K1934Q
20.0
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lo0007
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lo0036
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lo0013
lo0043
lo0042
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lo0031
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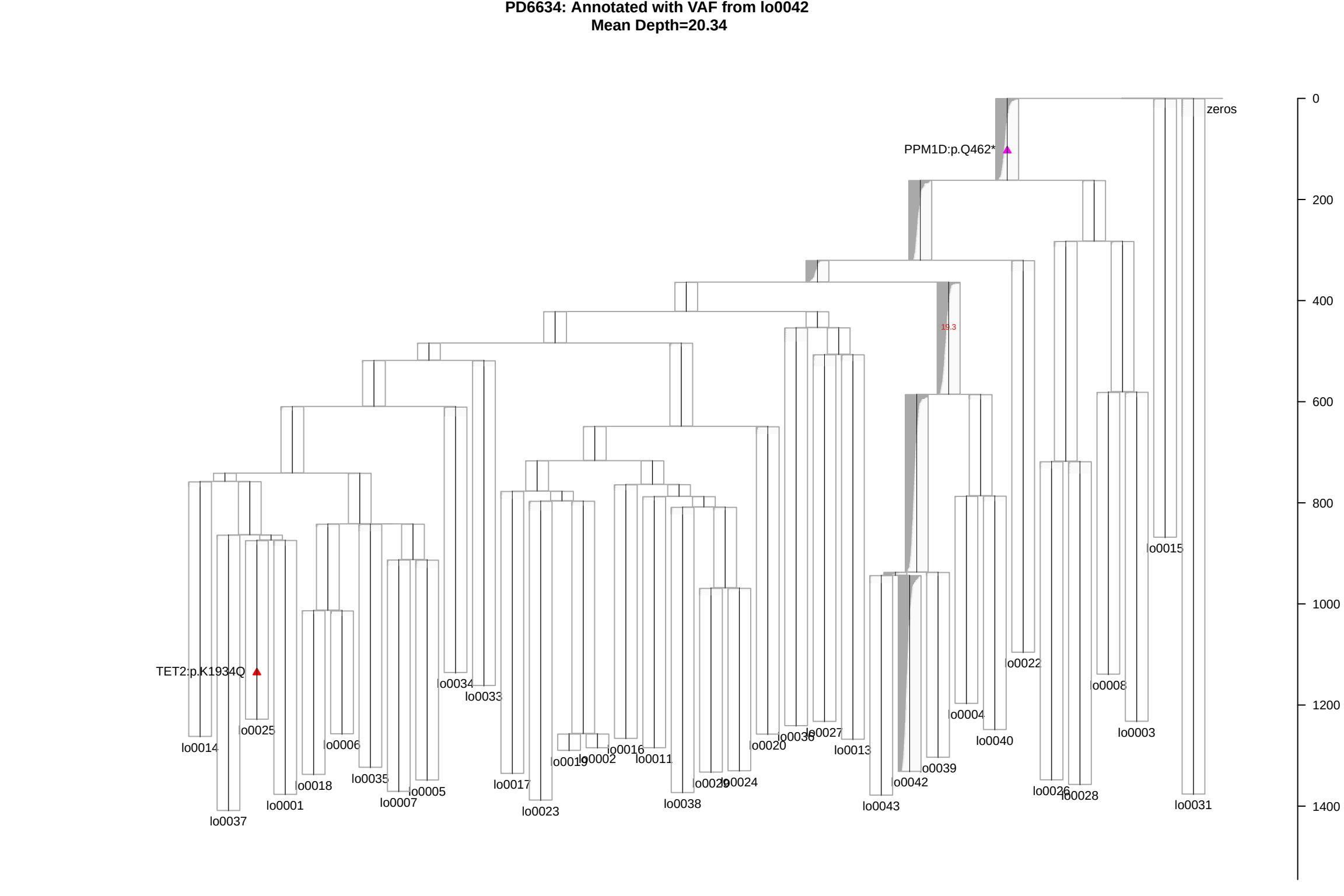
PD6634: Annotated with VAF from lo0042
Mean Depth=20.34
zeros
PPM1D:p.Q462*
19.3
TET2:p.K1934Q
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
lo0029
lo0024
lo0020
lo0036
lo0027
lo0013
lo0043
lo0042
lo0039
lo0004
lo0040
lo0022
lo0026
lo0028
lo0008
lo0003
lo0015
lo0031
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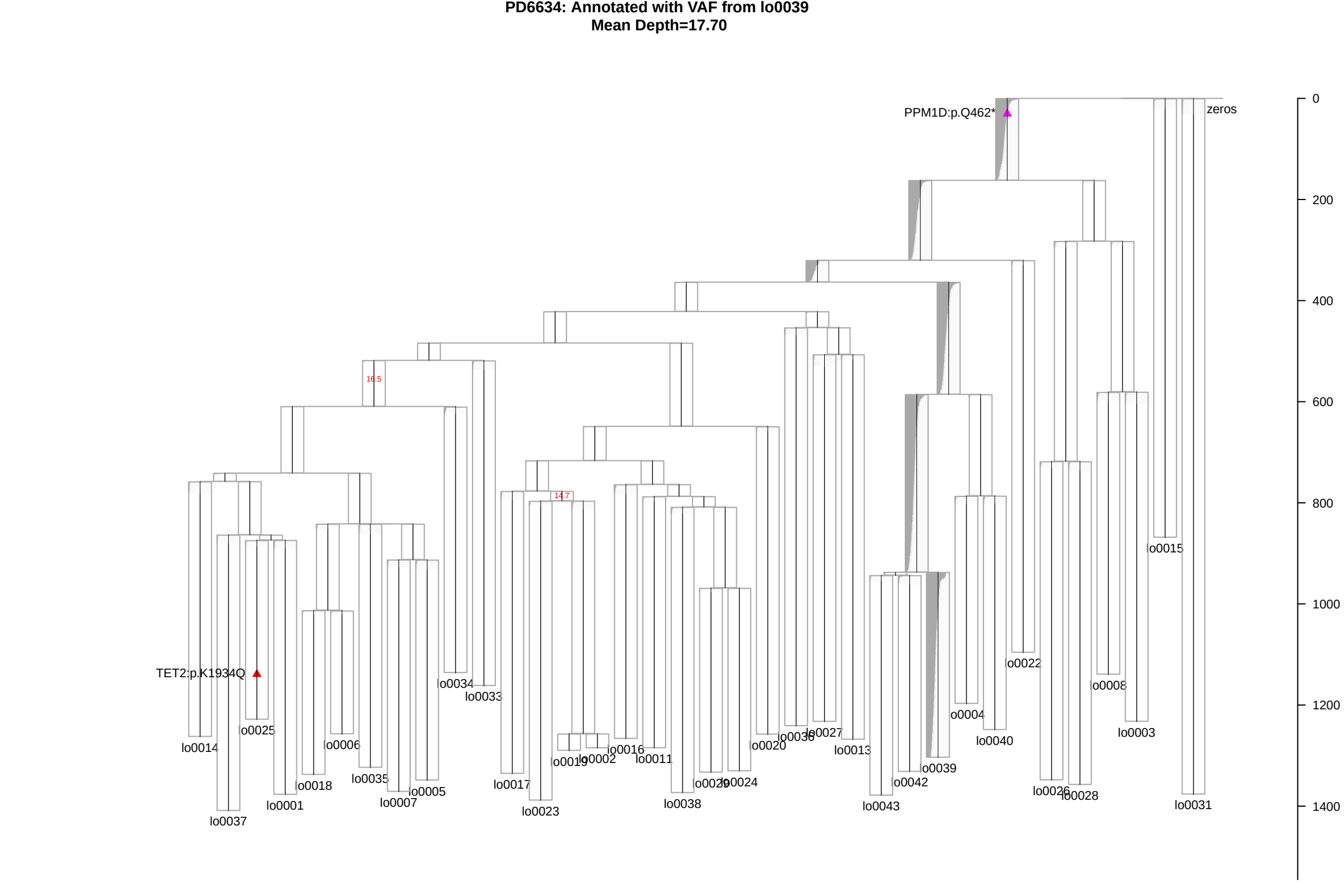
PD6634: Annotated with VAF from lo0039
Mean Depth=17.70
PPM1D:p.Q462*
zeros
TET2:p.K1934Q
16.5
14.7
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
lo0029
lo0024
lo0020
lo0036
lo0027
lo0013
lo0043
lo0042
lo0039
lo0004
lo0040
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lo0008
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lo0015
lo0031
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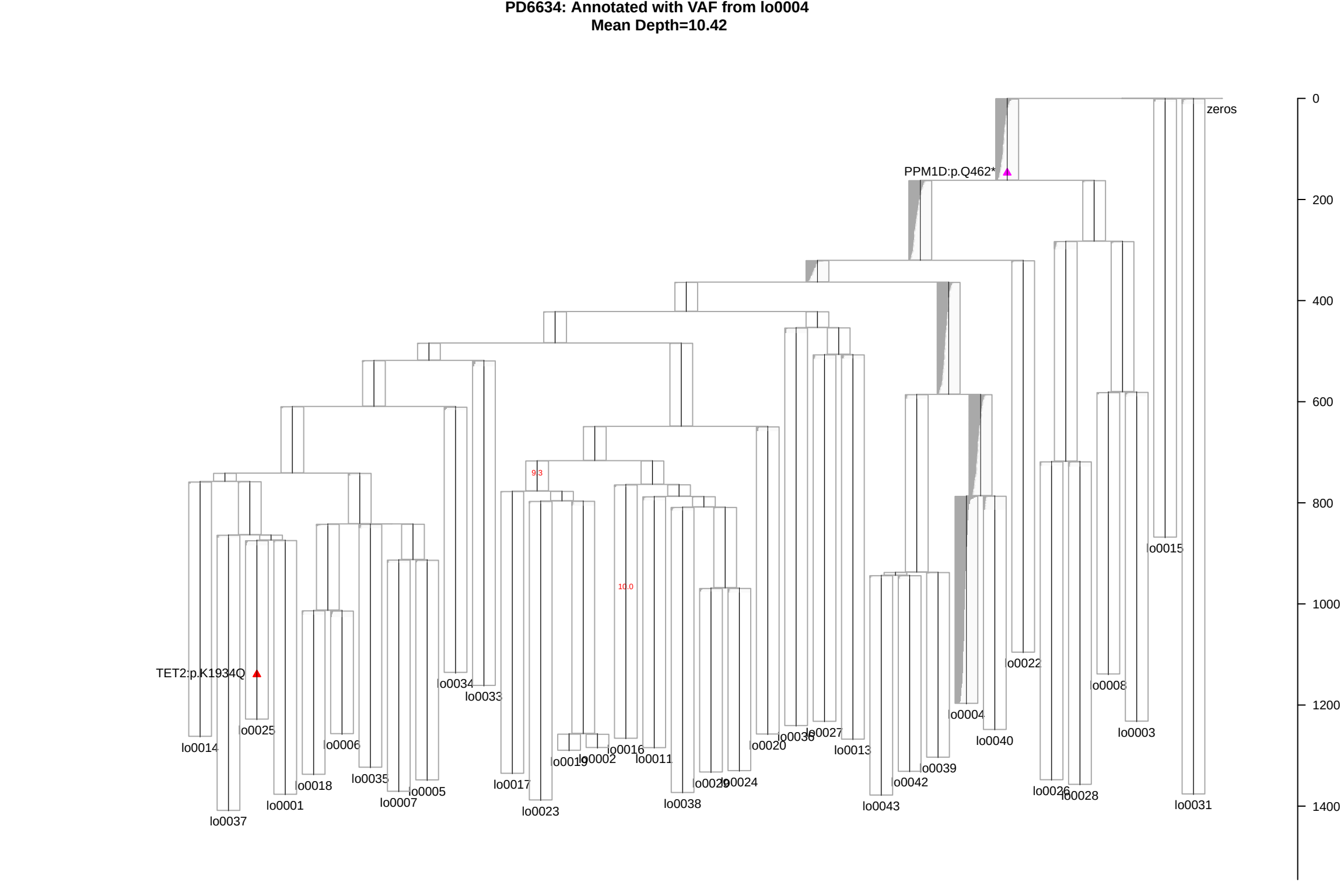
PD6634: Annotated with VAF from lo0004
Mean Depth=10.42
zeros
PPM1D:p.Q462*
TET2:p.K1934Q
9.3
10.0
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
lo0029
lo0024
lo0020
lo0036
lo0027
lo0013
lo0043
lo0042
lo0039
lo0004
lo0040
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lo0026
lo0028
lo0008
lo0003
lo0015
lo0031
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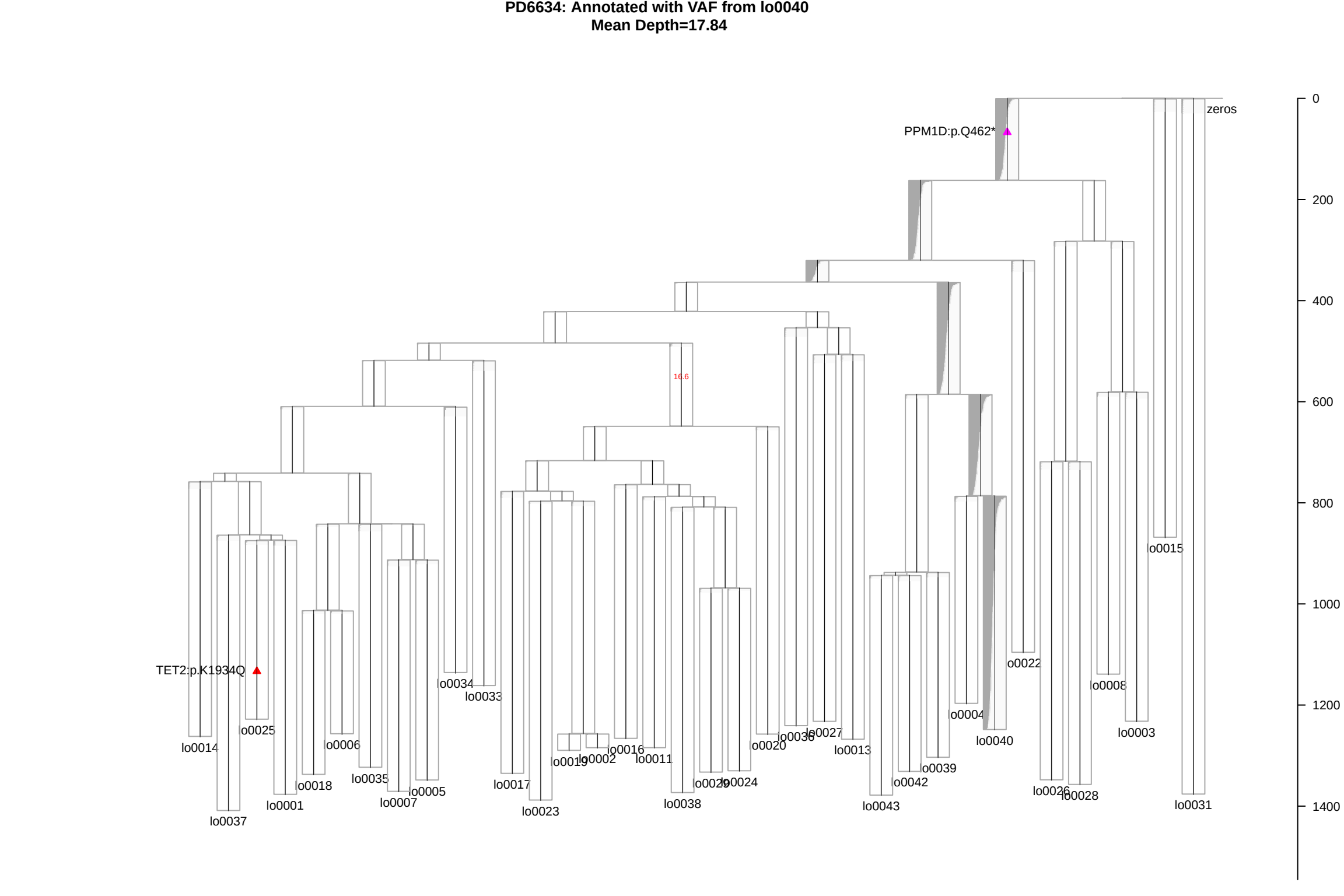
PD6634: Annotated with VAF from lo0040
Mean Depth=17.84
zeros
PPM1D:p.Q462*
16.6
TET2:p.K1934Q
lo0014
lo0025
lo0037
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
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lo0038
lo0029
lo0024
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lo0036
lo0027
lo0013
lo0043
lo0042
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lo0003
lo0015
lo0031
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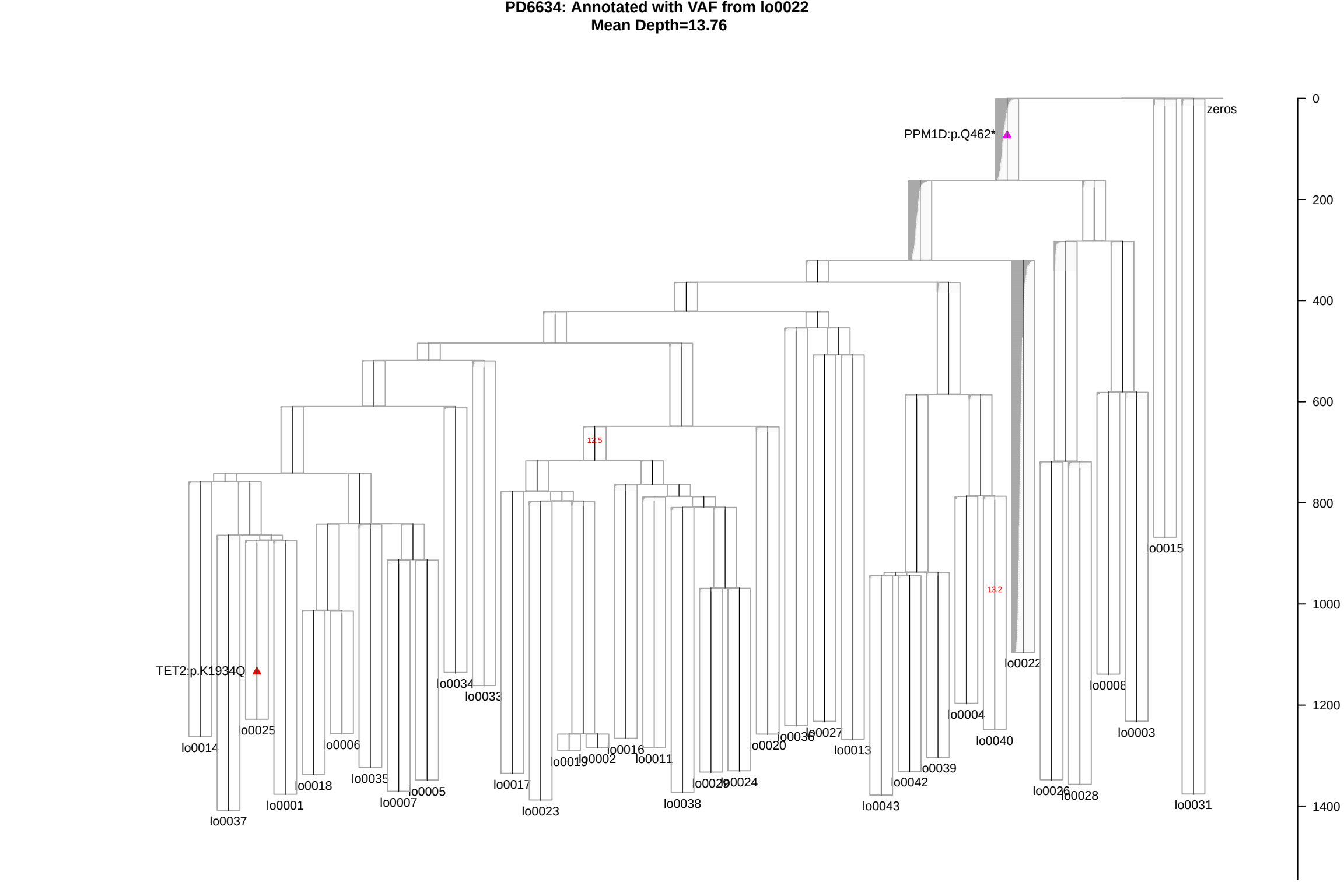
PD6634: Annotated with VAF from lo0022
Mean Depth=13.76
zeros
PPM1D:p.Q462*
TET2:p.K1934Q
12.5
13.2
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
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lo0036
lo0027
lo0013
lo0043
lo0042
lo0039
lo0004
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lo0028
lo0008
lo0003
lo0015
lo0031
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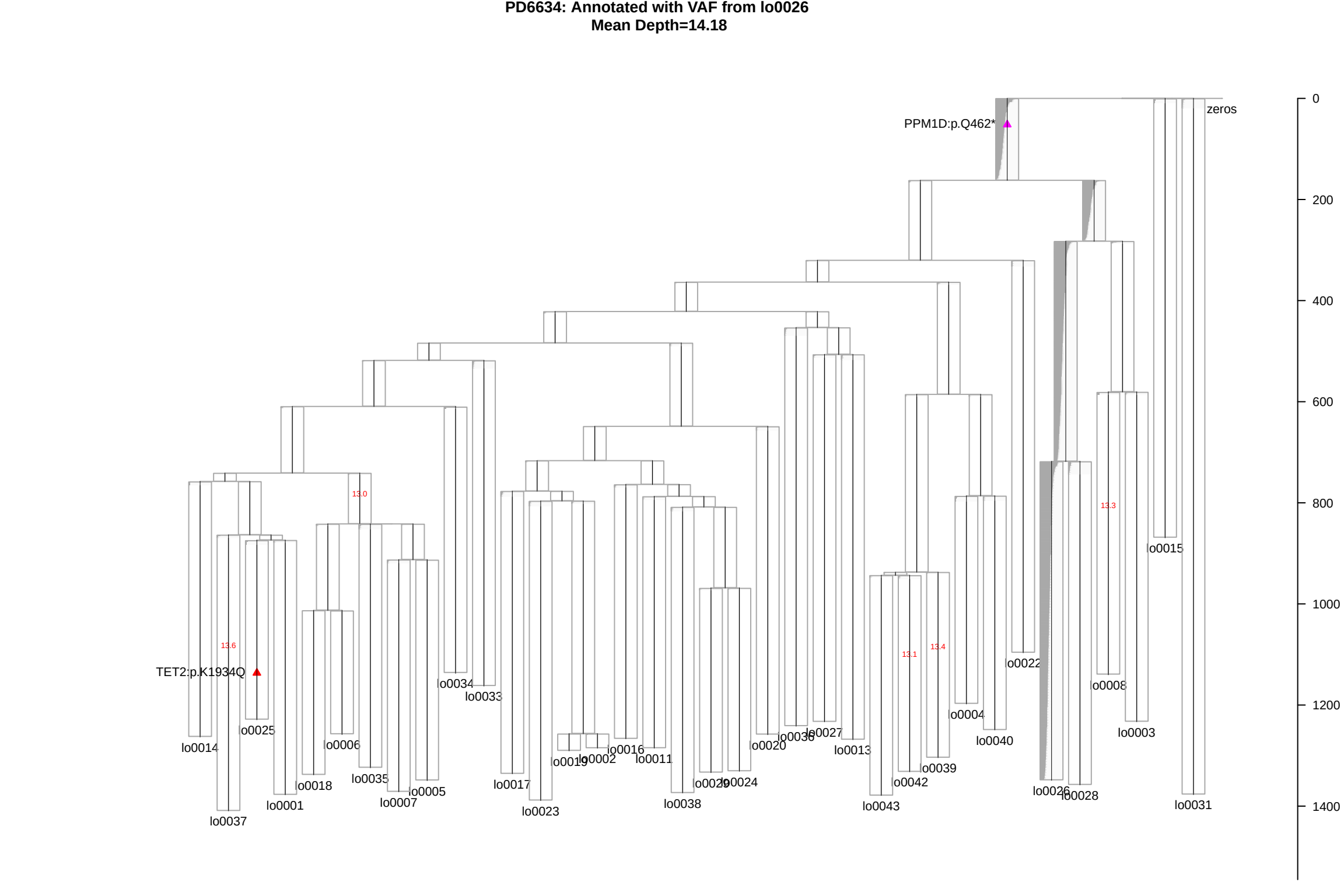
PD6634: Annotated with VAF from lo0026
Mean Depth=14.18
zeros
PPM1D:p.Q462*
TET2:p.K1934Q
13.0
13.6
13.1
13.4
13.3
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
lo0011
lo0038
lo0029
lo0024
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lo0036
lo0027
lo0013
lo0043
lo0042
lo0039
lo0004
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lo0026
lo0028
lo0008
lo0003
lo0015
lo0031
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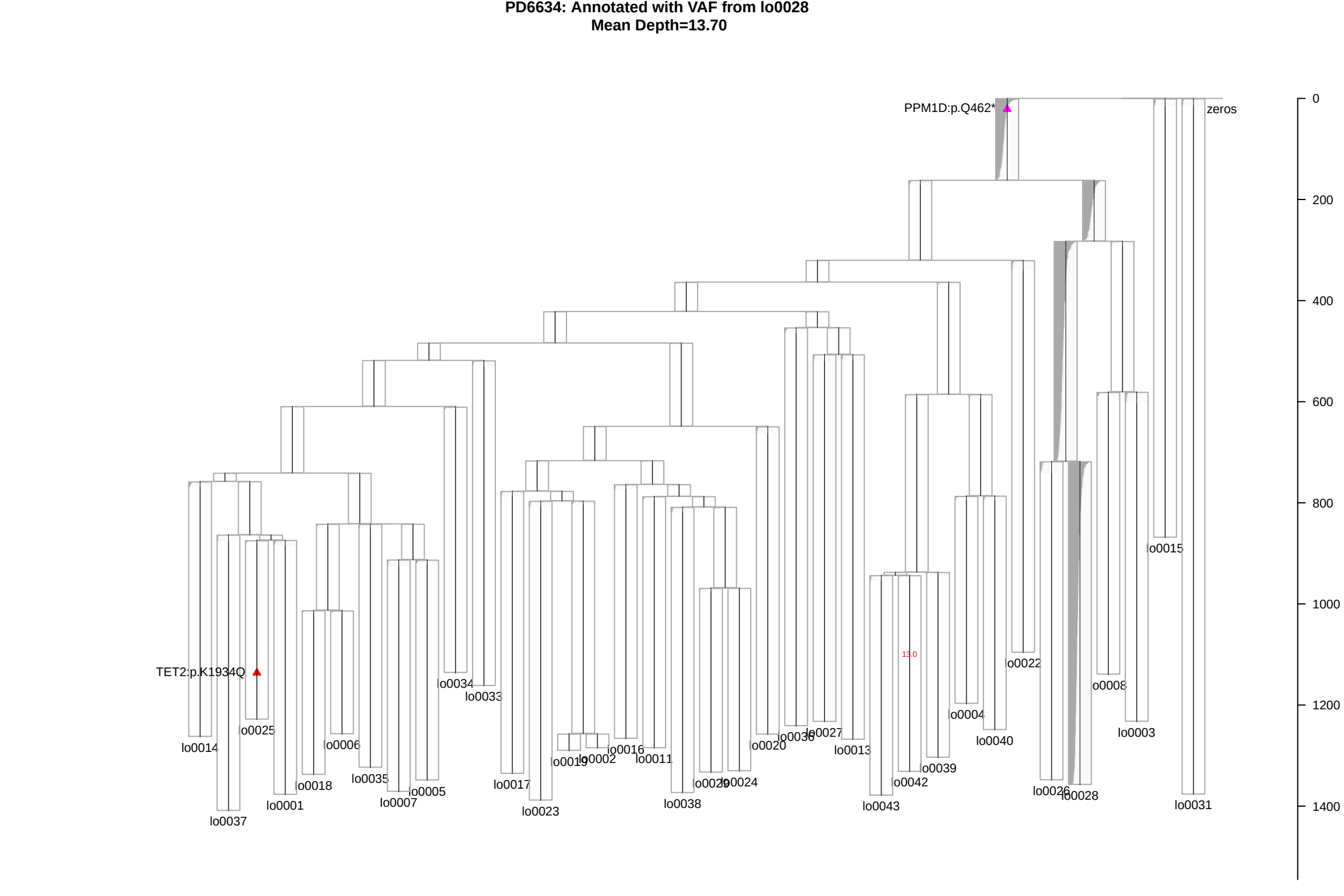
PD6634: Annotated with VAF from lo0028
Mean Depth=13.70
PPM1D:p.Q462*
zeros
TET2:p.K1934Q
13.0
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
lo0034
lo0033
lo0017
lo0023
lo0019
lo0002
lo0016
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lo0029
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lo0031
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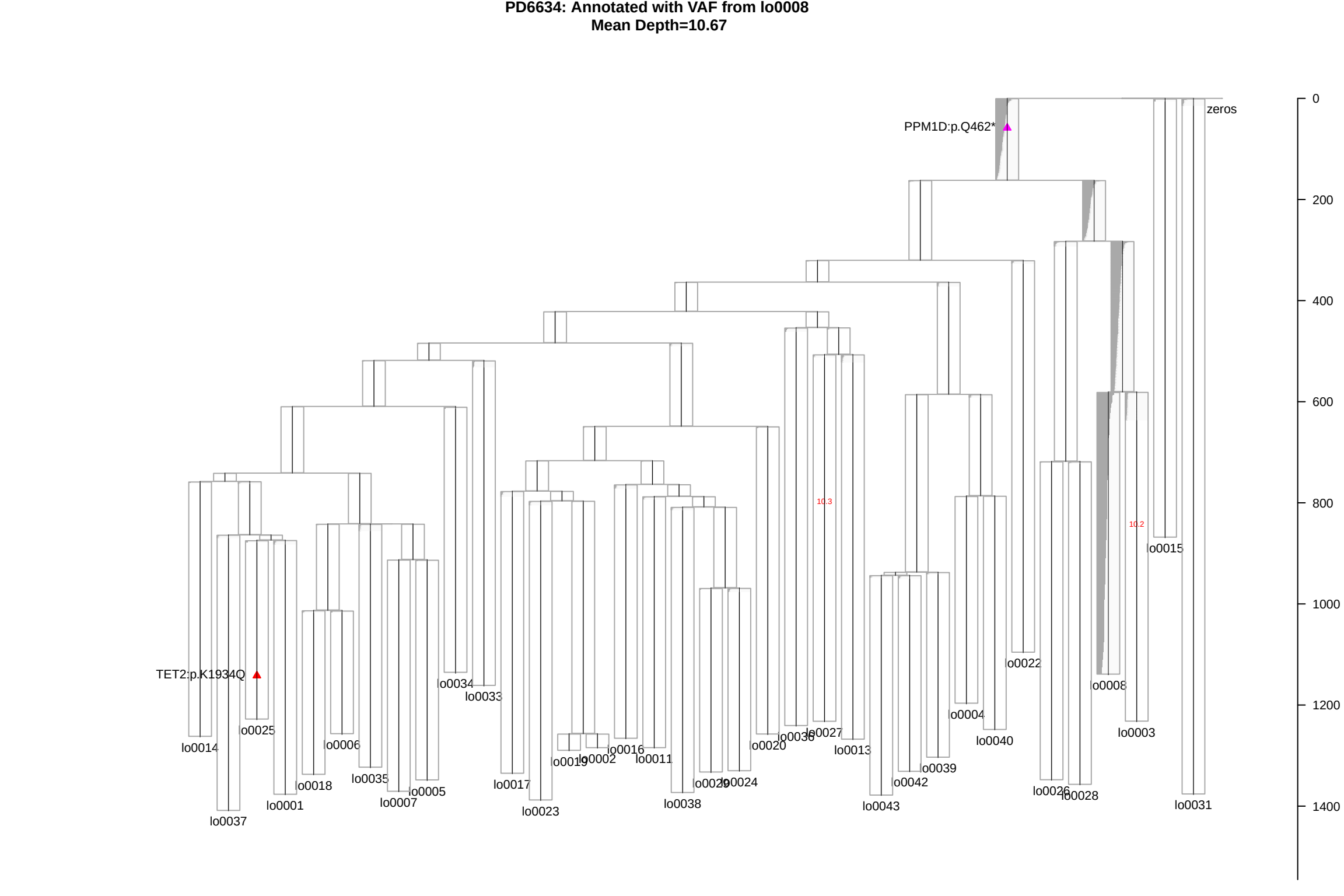
PD6634: Annotated with VAF from lo0008
Mean Depth=10.67
zeros
PPM1D:p.Q462*
TET2:p.K1934Q
10.3
10.2
lo0014
lo0037
lo0025
lo0001
lo0018
lo0006
lo0035
lo0007
lo0005
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lo0017
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lo0002
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lo0031
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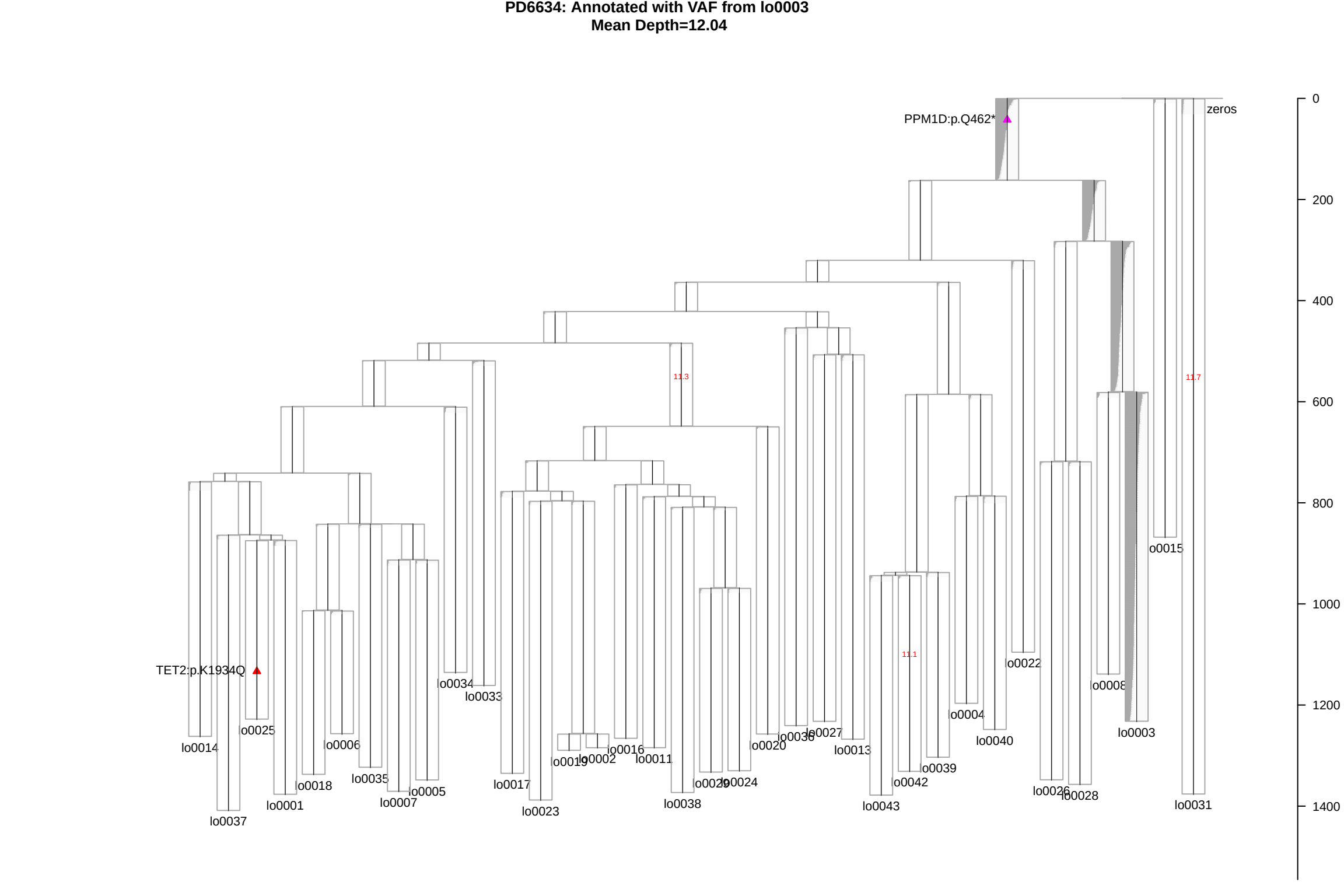
PD6634: Annotated with VAF from lo0003
Mean Depth=12.04
PPM1D:p.Q462*
zeros
TET2:p.K1934Q
11.3
11.7
11.1
lo0014
lo0037
lo0025
lo0001
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lo0007
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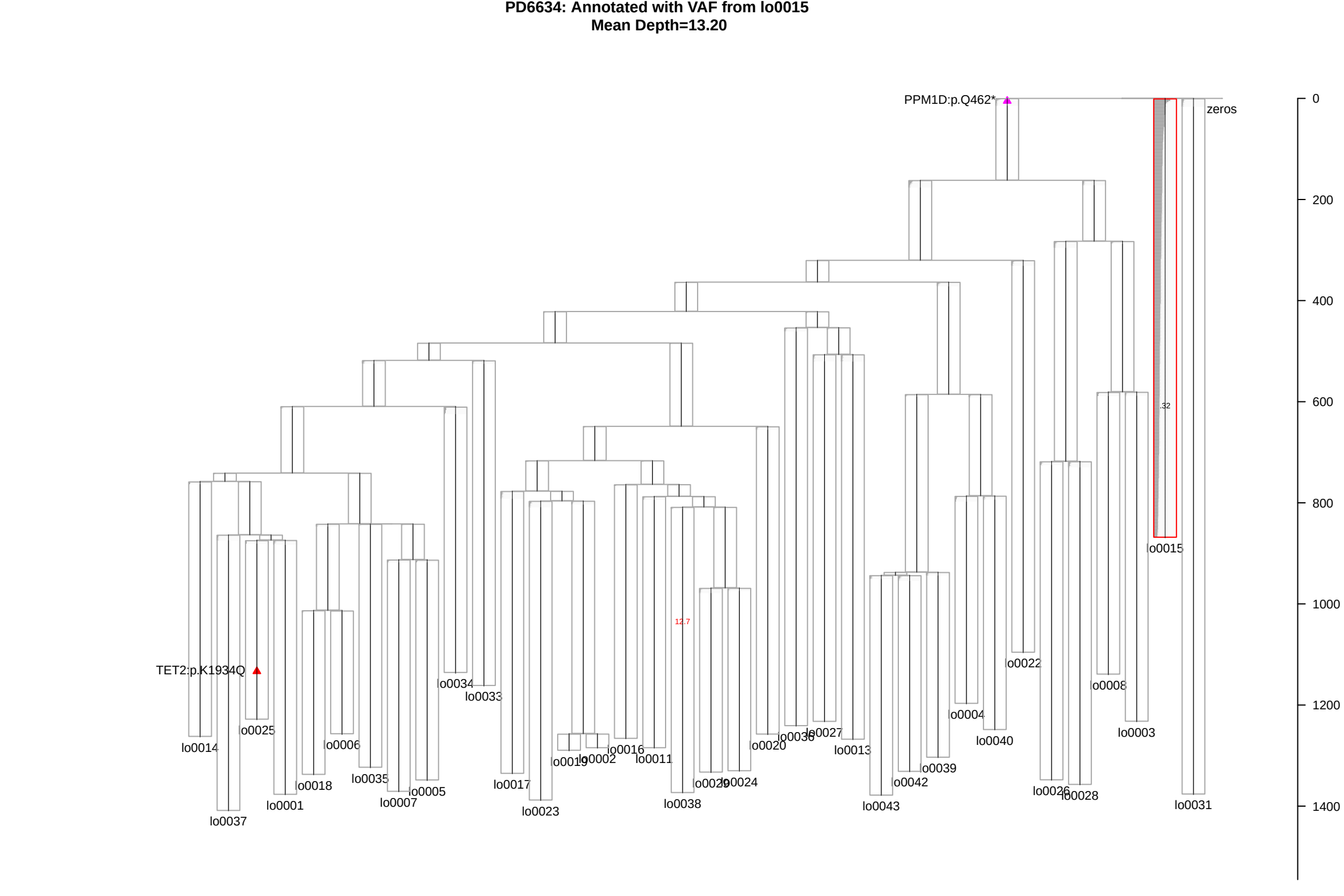
PD6634: Annotated with VAF from lo0015
Mean Depth=13.20
PPM1D:p.Q462*
zeros
TET2:p.K1934Q
12.7
.32
lo0015
lo0014
lo0025
lo0006
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lo0007
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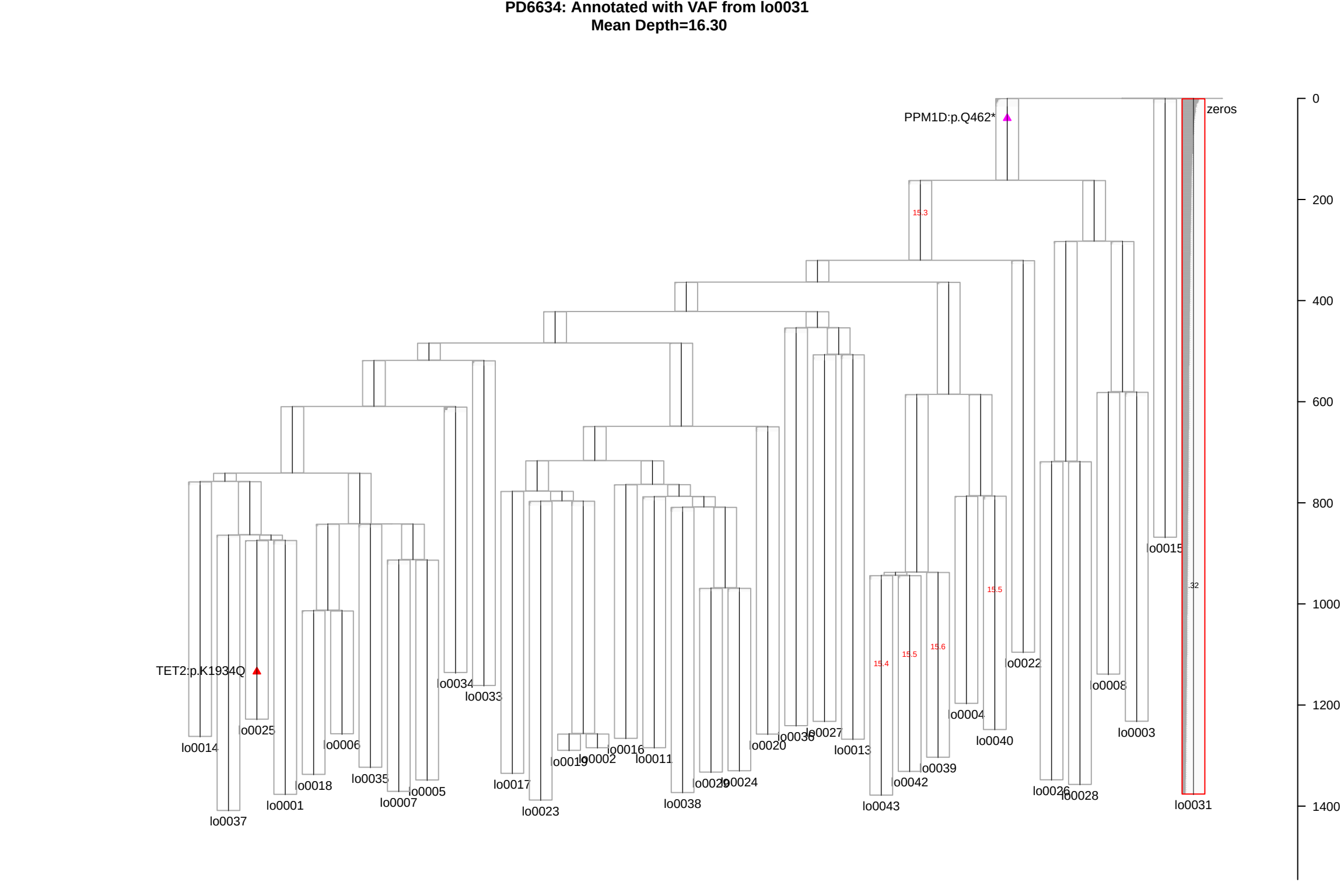
PD6634: Annotated with VAF from lo0031
Mean Depth=16.30
PPM1D:p.Q462*
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TET2:p.K1934Q
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15.5
15.4
15.5
15.6
.32
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