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```

S4: NEXUS partition file (annotation of exons/introns in TEF1A; RPB1,RPB2; coding only);

```

#nexus
begin sets;
  charset tef1_exons = SP1_curated_partition_TEF1A.fasta: 185-323
379-408;
  charset tef1_intron1 = SP1_curated_partition_TEF1A.fasta: 1-184;
  charset tef1_intron2 = SP1_curated_partition_TEF1A.fasta: 324-378;
  charset rpb1 = SP2_curated_partition_RPB1.fasta: 1-915;
  charset rpb2 = SP3_curated_partition_RPB2.fasta: 1-853;
  charpartition mine = K2P+R2:tef1_intron1, K2P:tef1_intron2,
TNe+I:rpb1, TNe+I:rpb2;
end;

```

S5: Topology of the consensus tree obtained with IQ-TREE (Newick format).

```

(fusarium_proliferatum_et1_gca_900067095:0.1227398786,(((((((fusarium_
oxysporum_fo47_gca_000271705:0.0005105405,GASP_5:0.0039154154)37:0.000
5214953,(((((((GASP_3:0.0000000000,GA_3.2:0.0000000000):0.0000000000
,GA_92.3:0.0000000000):0.0000000000,GA_5.4:0.0000000000):0.0000000000,
SP_FOA02:0.0000000000):0.0000000000,GA_4.2:0.0000000000):0.0000000000,
GA_5.3:0.0000000000):0.0000029556,GASP_9:0.0000029556)39:0.0000029556,
GA_99.2:0.0000029556)59:0.0000029556,GA_1.3:0.0000029556)63:0.00000208
22)24:0.0005062635,(GA_3.6:0.0005131070,((((SP_FOA15:0.0000000000,SP_
FOA20:0.0000000000):0.0000000000,SP_FOA19:0.0000000000):0.0000000000,S
P_FOA18:0.0000000000):0.0000000000,SP_FOA17:0.0000000000):0.0000029556
,SP_FOA16:0.0000029556)97:0.0021059469)62:0.0005196686)31:0.0000024980
,((((GASP_2:0.0000029556,GA_1.2:0.0000029556)38:0.0000029556,(GA_1.4
:0.0000029556,GA_3.5:0.0000029556)41:0.0000029556)74:0.0005079791,(GA_

```

_10:0.0000029556,((((GA_3.3:0.0000000000,SP_FOA01:0.0000000000):0.000000000,SP_FOA05:0.0000000000):0.0000000000,SP_FOA03:0.0000000000):0.000000000,SP_FOA04:0.0000000000):0.0000029556,GA_3.7:0.0000029556)69:0.0000029556)77:0.0000029556,(GA_4.1:0.0000029556,GA_4.3:0.0000029556)97:0.0005085707)90:0.0000029556)85:0.0010269858,SP_FOA14:0.0000029556)36:0.0005067835,SP_FOA13:0.0005075787)19:0.0000029556,(NL_FOA03:0.0000029556,NL_FOA04:0.0000029556)56:0.0000029556)13:0.0000029556)65:0.0005067744,SP_FOA10:0.0000029556)67:0.0005067135,SP_FOA06:0.0000029556)82:0.0006031118,GASP_4:0.0022766468)86:0.0005408163,((((NL_FOA01:0.0000029556,NL_FOA02:0.0000029556)85:0.0000020234,(NL_FOA05:0.0000020365,SP_FOA07:0.0021770363)66:0.0010297728)78:0.0005286509,SP_FOA11:0.0000029556)57:0.0000029556,SP_FOA12:0.0005068463)77:0.0005073258,SP_FOA08:0.0000029556)55:0.0005073082,SP_FOA09:0.0000029556)84:0.0026767472);