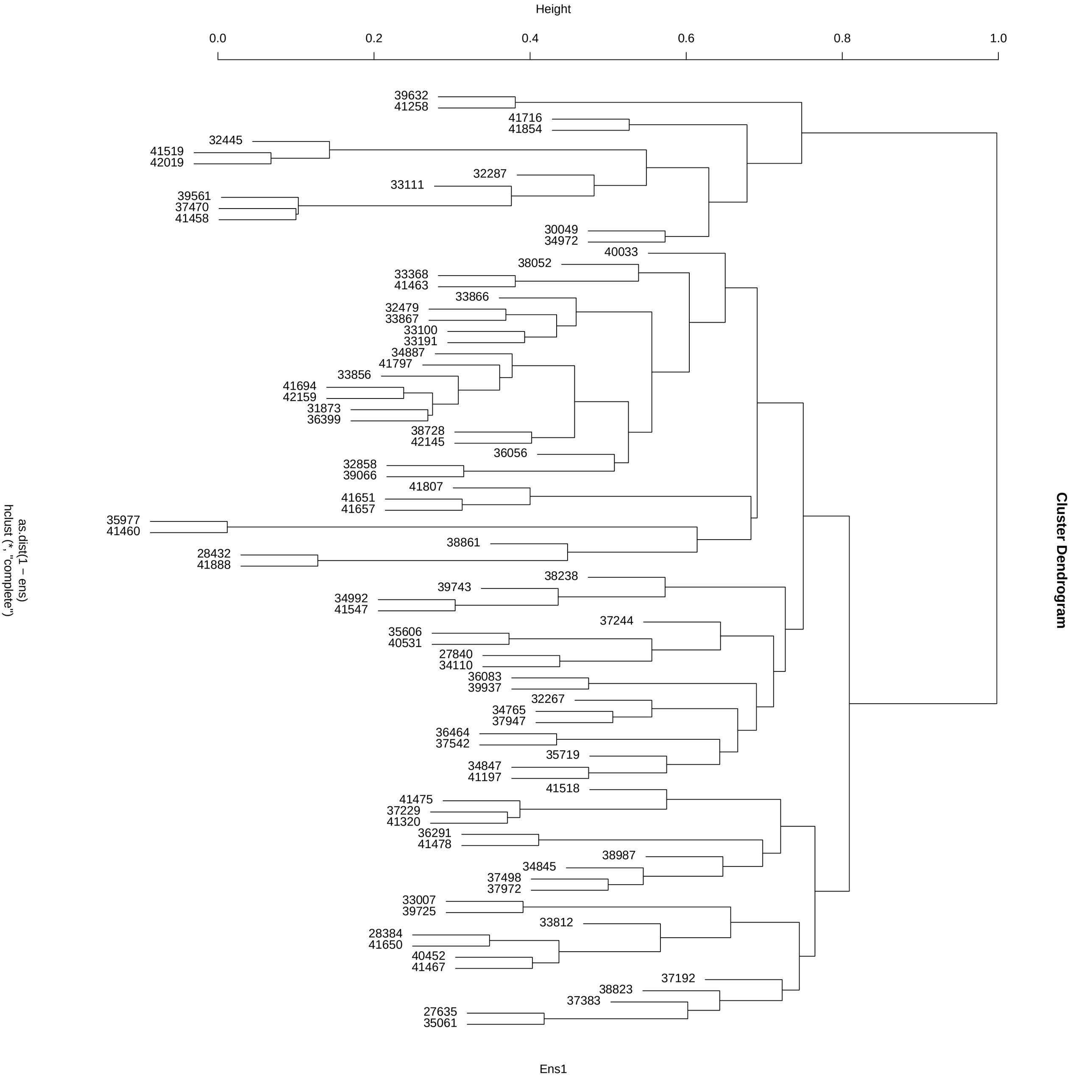
Height
0.0
0.2
0.4
0.6
0.8
1.0
39632
41258
41716
41854
32445
41519
42019
32287
33111
39561
37470
41458
30049
34972
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41463
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32479
33867
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33191
34887
41797
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42159
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36399
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35977
41460
38861
28432
41888
38238
39743
34992
41547
37244
35606
40531
27840
34110
36083
39937
32267
34765
37947
36464
37542
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41197
41518
41475
37229
41320
36291
41478
38987
34845
37498
37972
33007
39725
33812
28384
41650
40452
41467
37192
38823
37383
27635
35061
as.dist(1 – ens)
hclust (*, "complete")
Ens1
Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

37192
41716
41854
32287
33007
33111
37470
39561
41458
32445
41519
42019
30049
34972
37244
38861
28432
41888
27840
34110
41807
41651
41657
34887
38728
39066
32858
42159
36399
31873
41694
42145
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35606
40531
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33867
33100
33866
38052
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41463
40033
41197
36056
38987
38823
34847
37542
38238
35719
39743
33191
34992
41547
35977
41460
39632
41258
41518
41475
37229
41320
33812
39725
40452
41467
28384
41650
36083
39937
34765
32267
37947
37383
27635
35061
36291
41478
34845
37498
37972

as.dist(1 – ens)
hclust (*, "complete")

Ens2

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

35977
41460
40033
41197
36056
38987
37244
38861
28432
41888
41807
41651
41657
34887
38728
42145
33856
41797
32479
33100
33867
33866
39066
32858
42159
36399
31873
41694
35719
41258
38238
33191
39743
34992
41547
36464
37542
34765
32267
37947
36291
41478
38823
27635
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37192
38052
33368
41463
34845
37498
37972
35061
37383
27840
40531
34110
35606
41518
37229
41320
41475
41716
41854
39632
32445
41519
42019
30049
34972
33111
41458
37470
39561
41467
28384
40452
39725
33812
41650
32287
33007
36083
39937

as.dist(1 – ens)
hclust (*, "complete")

Ens3

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

35061
37383
38238
41716
41854
35977
41460
41518
41475
37229
41320
37192
39632
41519
32445
42019
39561
37470
41458
30049
33111
34972
36291
41478
38823
27635
34847
41467
41650
28384
40452
33812
39725
34845
37498
37972
32287
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36083
39937
35719
41258
33191
39743
34992
41547
40033
41197
36056
38987
41651
41807
41694
31873
41657
33866
36399
32479
33100
33867
39066
32858
42159
42145
33856
41797
34887
38728
38052
33368
41463
27840
40531
34110
35606
37244
38861
28432
41888
34765
32267
37947
36464
37542

as.dist(1 – ens)
hclust (*, "complete")

Cluster Dendrogram

Ens4

Height

0.0 0.2 0.4 0.6 0.8 1.0

38238
41716
41854
38823
35061
37383
41518
41475
37229
41320
37192
39632
41519
32445
42019
39561
37470
41458
30049
33111
34972
41467
41650
28384
40452
33812
39725
37244
32287
33007
34845
37498
37972
35977
41460
38861
28432
41888
27840
40531
34110
35606
36291
41478
27635
34847
36083
39937
34765
32267
37947
35719
41258
36464
37542
33191
39743
34992
41547
41651
41807
34887
38728
42145
33856
41797
39066
32858
42159
36399
41694
31873
41657
40033
41197
36056
38987
38052
33368
41463
32479
33866
33100
33867

as.dist(1 – ens)
hclust (*, "complete")

Ens5

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

41518
41475
37229
41320
34845
37192
39632
41519
32445
42019
33111
30049
34972
41458
37470
39561
38823
35061
37383
35719
41258
41716
41854
27840
40531
34110
35606
36083
39937
38238
40033
41197
35977
41460
38861
28432
41888
41650
41467
28384
40452
33812
39725
37244
32287
33007
39066
32858
42159
41651
41807
41694
31873
41657
38052
33368
41463
36056
38987
37498
37972
34887
42145
38728
33856
41797
36399
33866
33100
33867
33191
39743
34992
41547
32479
34765
32267
37947
36464
37542
36291
41478
27635
34847

Cluster Dendrogram

hclust (*, "complete")
as.dist(1 – ens)

Ens6

Height

0.0 0.2 0.4 0.6 0.8 1.0

38238
35719
41258
41716
41854
35977
41460
41518
41475
37229
41320
34845
37192
33111
39632
41519
32445
42019
37383
34972
30049
41458
37470
39561
35061
32287
38823
31873
41657
41651
41807
39066
41694
32858
42159
36399
34887
38728
42145
33856
41797
40033
41197
36056
38987
41888
28432
38861
33007
37244
36083
39937
32479
34765
32267
37947
27635
34847
36464
37542
36291
41478
41467
41650
28384
40452
33812
39725
37498
37972
27840
40531
34110
35606
38052
33368
41463
33191
39743
34992
41547
33866
33100
33867

as.dist(1 – ens)
hclust (*, "complete")

Ens7

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

38238
41716
41854
35977
41460
41518
41475
37229
41320
35061
34845
33111
37192
41519
32445
42019
37383
39632
34972
30049
41458
37470
39561
36083
39937
38823
35719
41258
41651
41807
41694
31873
41657
39066
32858
42159
36399
34887
42145
38728
33856
41797
41888
28432
38861
41650
41467
28384
40452
33812
39725
32287
33007
37244
27840
40531
37498
37972
33866
34110
35606
38052
33368
41463
32479
33100
33867
33191
39743
34992
41547
27635
34847
36464
37542
40033
41197
36056
38987
36291
41478
34765
32267
37947

Cluster Dendrogram

as.dist(1 – ens)
hclust (*, "complete")

Ens8

Height

0.0 0.2 0.4 0.6 0.8 1.0

27840
40531
35977
41460
38238
41518
41475
37229
41320
36083
39937
35061
34845
37192
41519
32445
42019
33111
37383
39632
34972
41458
30049
37470
39561
38823
35719
41258
38052
33368
41463
41716
41854
31873
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41651
41807
39066
41694
32858
42159
42145
38728
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41797
34887
36399
33191
39743
34992
41547
36464
37542
27635
34847
32479
33100
33867
37498
37972
33866
34110
35606
41888
28432
38861
32287
33007
37244
40033
41197
36056
38987
41467
41650
28384
40452
33812
39725
36291
41478
34765
32267
37947

as.dist(1 – ens)
hclust (*, "complete")

Ens9

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

41716
41518
41475
37229
41320
35061
34845
41519
32445
42019
34972
41458
39632
37383
30049
37470
39561
37192
33111
36083
39937
38823
38238
35719
41258
38052
33368
41463
35977
41460
27840
40531
41651
41807
41694
31873
41657
39066
32858
42159
42145
38728
33856
41797
34887
36399
32479
33100
33867
41854
33191
39743
34992
41547
36464
37542
27635
34847
40033
41197
36056
38987
37498
37972
33866
34110
35606
41888
28432
38861
32287
33007
37244
41467
41650
28384
40452
33812
39725
36291
41478
34765
32267
37947

as.dist(1 – ens)
hclust (*, "complete")

Ens10

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

41807
31873
41657
39066
41694
32858
42159
38728
33856
41797
36399
34887
42145
41651
41888
28432
38861
40033
41197
36056
38987
37498
37972
33866
34110
35606
32479
33100
33867
41854
33191
39743
34992
41547
36464
37542
27635
34847
34845
38052
41519
32445
42019
37383
30049
37470
39561
39632
34972
41458
35061
35719
41258
36083
39937
33111
37192
41716
38238
38823
27840
40531
35977
41460
41518
41475
37229
41320
33368
41463
32287
33007
37244
41467
41650
28384
40452
33812
39725
36291
41478
34765
32267
37947

as.dist(1 – ens)
hclust (*, "complete")

Ens11

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

38052
34845
34972
41458
30049
37383
37470
39561
41518
41475
37229
41320
41519
32445
42019
39632
35719
41258
35977
41460
27840
40531
33111
37192
36083
39937
38238
38823
41716
41651
41807
41694
31873
41657
36399
34887
42145
39066
32858
42159
38728
33856
41797
32479
33100
33867
41854
33191
39743
34992
41547
37498
37972
33866
34110
35606
33368
41463
35061
36464
37542
27635
34847
32287
33007
37244
41888
28432
38861
36056
38987
40033
41197
41467
41650
28384
40452
33812
39725
36291
41478
34765
32267
37947

as.dist(1 – ens)
hclust (*, "complete")

Ens12

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

35977
41460
27840
40531
37192
33111
36083
39937
38238
38823
34972
41458
37383
30049
37470
39561
34845
38052
41518
41475
37229
41320
41519
32445
42019
39632
35719
41258
32479
33100
33867
37498
37972
33866
34110
35606
38728
33856
41797
42145
34887
36399
39066
32858
42159
41651
41807
41694
31873
41657
37244
32287
33007
41888
28432
38861
40033
41197
36056
38987
41467
41650
28384
40452
33812
39725
36291
41478
34765
32267
37947
35061
36464
37542
27635
34847
33368
41463
41716
41854
33191
39743
34992
41547

as.dist(1 – ens)
hclust (*, "complete")

Ens13

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

32479
38052
34972
41458
37383
30049
37470
39561
41519
32445
42019
34845
39632
35719
41258
33111
37192
36083
39937
35977
41460
38238
38823
27840
40531
41518
41475
37229
41320
41651
41807
41694
31873
41657
38728
33856
41797
33100
33867
39066
32858
42159
34887
36399
42145
41888
28432
38861
37244
32287
33007
41467
39725
33812
41650
28384
40452
36291
41478
34765
32267
37947
41716
41854
33191
39743
34992
41547
40033
41197
36056
38987
37498
37972
33866
34110
35606
33368
41463
35061
36464
37542
27635
34847

as.dist(1 – ens)
hclust (*, "complete")

Ens14

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

41519
32445
42019
39632
35719
41258
34972
41458
37383
30049
37470
39561
32479
34845
38052
33111
37192
36083
39937
35977
41460
38238
38823
27840
40531
41518
41475
37229
41320
41888
28432
38861
40033
41197
36056
38987
37972
38728
33866
37498
34887
36399
42145
41651
41807
41694
31873
41657
39066
32858
42159
33856
41797
33100
33867
33368
41463
34110
35606
36464
37542
27635
34847
41716
41854
33191
39743
34992
41547
35061
37244
41467
39725
33812
41650
28384
40452
32287
33007
36291
41478
34765
32267
37947

as.dist(1 – ens)
hclust (*, "complete")

Cluster Dendrogram

Ens15

Height

0.0 0.2 0.4 0.6 0.8 1.0

33111
37192
36083
39937
41519
32445
42019
39632
35719
41258
32479
38052
34972
41458
37383
30049
37470
39561
35061
37244
27840
40531
35977
41460
34845
38238
33856
41797
39066
32858
42159
42145
34887
36399
41888
28432
38861
41694
31873
41657
41651
41807
33100
33867
34110
35606
33866
37498
37972
38728
41518
41475
37229
41320
41467
33812
41650
28384
40452
36291
41478
34765
32267
37947
32287
33007
39725
40033
41197
36056
38987
33368
41463
41716
41854
33191
39743
34992
41547
38823
36464
37542
27635
34847

as.dist(1 – ens)
hclust (*, "complete")

Ens16

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

41519
32445
42019
39632
35719
41258
34972
41458
30049
37383
37470
39561
33111
37192
36083
39937
35977
41460
34845
38238
27840
40531
35061
37244
33368
41463
32287
33007
36291
41478
34765
32267
37947
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
33856
41797
32479
38052
34110
35606
33100
33867
39066
32858
42159
37972
38728
33866
37498
42145
34887
36399
41888
28432
38861
41694
31873
41657
41651
41807
40033
41197
36056
38987
41716
41854
33191
39743
34992
41547
38823
36464
37542
27635
34847

as.dist(1 – ens)
hclust (*, "complete")

Ens17

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

32479
38052
34972
41458
30049
37470
37383
39561
41519
32445
42019
34845
39632
35719
41258
33111
37192
36083
39937
38238
27840
40531
33856
41797
31873
41657
41651
41807
41694
32858
42159
39066
33100
33867
37972
38728
33866
37498
42145
34887
36399
41888
28432
38861
36056
38987
40033
41197
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
36291
41478
34765
32267
37947
35061
32287
33007
37244
33368
41463
38823
41716
41854
33191
39743
34992
41547
35977
41460
34110
35606
36464
37542
27635
34847

Ens18

as.dist(1 – ens)
hclust (*, "complete")

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

33856
41797
41888
28432
38861
41694
31873
41657
41651
41807
34110
35606
33100
33867
39066
32858
42159
37972
38728
33866
37498
42145
34887
36399
33368
41463
35061
36464
37542
27635
34847
40033
41197
36056
38987
32287
33007
37244
38823
36291
41478
34765
32267
37947
41716
41854
33191
39743
34992
41547
38238
35977
41460
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
27840
40531
33111
37192
36083
39937
41519
32445
42019
34845
39632
35719
41258
32479
38052
34972
41458
30049
37383
37470
39561

as.dist(1 – ens)
hclust (*, "complete")

Ens19

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

33856
41797
34110
35606
37972
38728
33866
37498
33100
33867
39066
32858
42159
42145
34887
36399
41888
28432
38861
41694
31873
41657
41651
41807
36056
38987
40033
41197
35061
36464
37542
27635
34847
37244
32287
33007
38238
38823
36291
41478
34765
32267
37947
35977
41460
41716
41854
33191
39743
34992
41547
34972
41458
37383
30049
37470
39561
32479
38052
41519
32445
42019
34845
39632
35719
41258
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
33368
41463
27840
40531
37192
33111
36083
39937

hclust (*, "complete")
as.dist(1 – ens)

Cluster Dendrogram

Ens20

Height

0.0 0.2 0.4 0.6 0.8 1.0

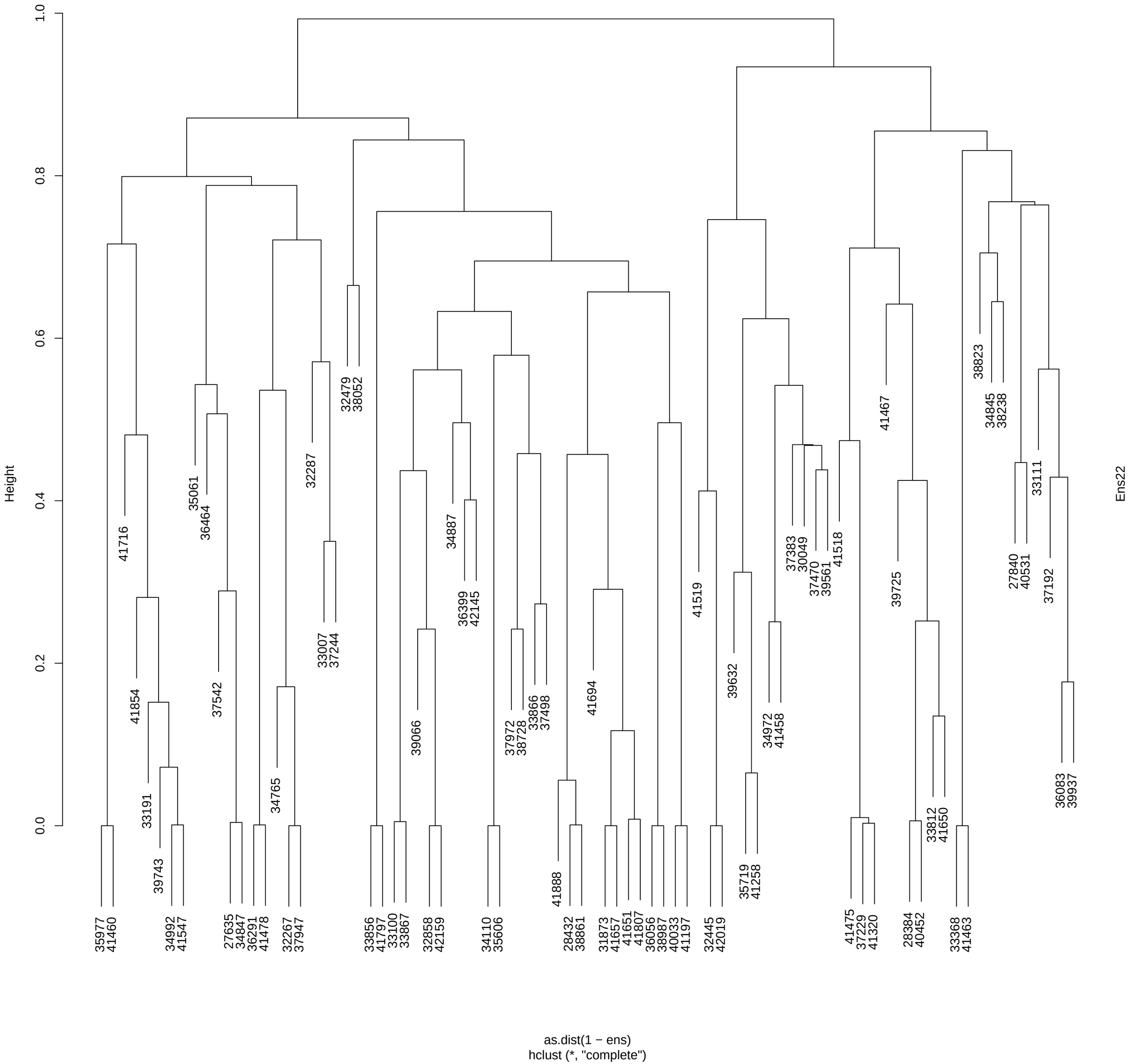
39632
35719
41258
34972
41458
30049
37470
37383
39561
32479
38052
41519
32445
42019
33111
37192
36083
39937
27840
40531
34845
38238
33856
41797
34110
35606
31873
41657
41651
41807
41694
32858
42159
39066
33100
33867
37972
38728
33866
37498
34887
36399
42145
41518
41475
37229
41320
41467
28384
40452
33812
41650
33368
41463
35061
36464
37542
27635
34847
41716
41854
33191
39743
34992
41547
38823
35977
41460
36056
38987
40033
41197
37244
41888
28432
38861
36291
41478
34765
32267
37947
32287
33007
39725

as.dist(1 – ens)
hclust (*, "complete")

Ens21

Cluster Dendrogram

Cluster Dendrogram



Height

0.0 0.2 0.4 0.6 0.8 1.0

33856
41797
34110
35606
31873
41657
41651
41807
41694
32858
42159
39066
33100
33867
34887
36399
42145
37972
38728
33866
37498
35061
36464
37542
27635
34847
32287
33007
37244
41888
28432
38861
36056
38987
40033
41197
41716
41854
33191
39743
34992
41547
38823
36291
41478
34765
32267
37947
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
33368
41463
33111
37192
36083
39937
38238
27840
40531
35977
41460
41519
32445
42019
32479
38052
34972
41458
30049
37383
37470
39561
34845
39632
35719
41258

as.dist(1 – ens)
hclust (*, "complete")

Ens23

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

32445
42019
41519
35977
41460
39632
35719
41258
34972
41458
30049
39561
37383
37470
32479
38052
33111
37192
36083
39937
41467
41518
41475
37229
41320
35061
37244
27840
40531
34845
38238
41888
28432
38861
41694
31873
41657
41651
41807
36056
38987
40033
41197
33856
41797
36399
39066
32858
42159
34887
42145
34110
35606
37972
38728
33866
37498
33368
41463
36291
41478
34765
32267
37947
32287
33007
39725
28384
40452
33812
41650
41716
33100
33867
41854
33191
39743
34992
41547
38823
36464
37542
27635
34847

as.dist(1 – ens)
hclust (*, "complete")

Ens24

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

41519
32445
42019
39632
35719
41258
34972
41458
37470
39561
30049
37383
27840
40531
34845
38238
33111
37192
36083
39937
41467
41518
41475
37229
41320
33368
41463
37244
32287
33007
36291
41478
34765
32267
37947
39725
28384
40452
33812
41650
40033
41197
36056
38987
38823
35977
41460
41716
41854
33191
39743
34992
41547
33856
41797
41888
28432
38861
37972
38728
33866
37498
39066
42145
34887
36399
34110
35606
33100
33867
31873
41657
41651
41807
41694
32858
42159
36464
35061
37542
27635
34847
32479
38052

as.dist(1 – ens)
hclust (*, "complete")

Ens25

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

33856
41797
33100
33867
39066
32858
42159
34887
36399
42145
41888
28432
38861
41694
31873
41657
41651
41807
34110
35606
37972
38728
33866
37498
35061
36464
37542
27635
34847
32287
33007
37244
41716
41854
33191
39743
34992
41547
36056
38987
40033
41197
38823
36291
41478
34765
32267
37947
33368
41463
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
39632
35719
41258
34972
41458
30049
37383
37470
39561
32479
38052
35977
41460
41519
32445
42019
33111
37192
36083
39937
27840
40531
34845
38238

as.dist(1 – ens)
hclust (*, "complete")

Cluster Dendrogram

Ens26

Height

0.0 0.2 0.4 0.6 0.8 1.0

33856
41797
33100
33867
31873
41657
41651
41807
41694
32858
42159
41888
28432
38861
37972
38728
33866
37498
35977
41460
36056
38987
40033
41197
34110
35606
39066
34887
36399
42145
32287
33007
37244
41716
39743
34992
41547
33191
41854
36291
41478
34765
32267
37947
38823
37542
27635
34847
33368
41463
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
39632
35719
41258
34972
41458
30049
37383
37470
39561
32479
38052
41519
32445
42019
33111
37192
36083
39937
35061
36464
27840
40531
34845
38238

as.dist(1 – ens)
hclust (*, "complete")

Ens27

Cluster Dendrogram

Height

0.0 0.2 0.4 0.6 0.8 1.0

36464
35061
37542
27635
34847
32479
38052
33856
41797
39066
42145
34887
36399
34110
35606
37972
38728
33866
37498
35977
41460
36056
38987
40033
41197
41888
28432
38861
31873
41657
41651
41807
41694
32858
42159
32287
33007
37244
38823
41716
33100
33867
39743
34992
41547
33191
41854
41519
32445
42019
39632
35719
41258
34972
41458
30049
37383
37470
39561
41467
41518
41475
37229
41320
39725
28384
40452
33812
41650
36291
41478
34765
32267
37947
33368
41463
33111
37192
36083
39937
27840
40531
34845
38238

as.dist(1 – ens)
hclust (*, "complete")

Ens28

Cluster Dendrogram

Height

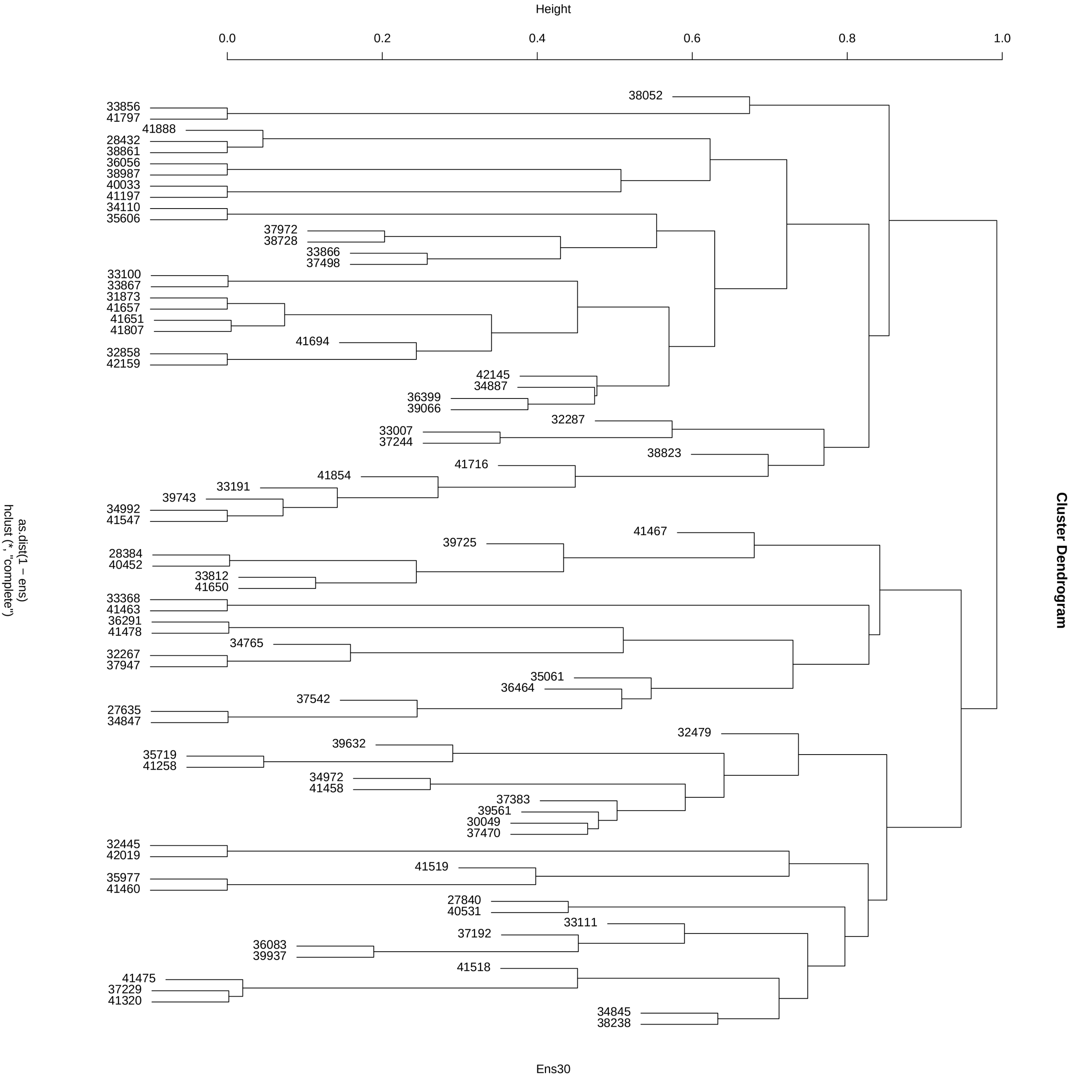
0.0 0.2 0.4 0.6 0.8 1.0

41888
28432
38861
41694
31873
41657
41651
41807
36056
38987
40033
41197
33856
41797
33100
33867
39066
32858
42159
42145
34887
36399
34110
35606
37972
38728
33866
37498
36464
35061
37542
27635
34847
41716
41854
33191
39743
34992
41547
36291
41478
34765
32267
37947
32287
33007
37244
41518
41475
37229
41320
41467
39725
28384
40452
33812
41650
33368
41463
27840
40531
33111
37192
36083
39937
38823
34845
38238
32445
42019
41519
35977
41460
39632
35719
41258
34972
41458
37383
30049
37470
39561
32479
38052

as.dist(1 – ens)
hclust (*, "complete")

Ens29

Cluster Dendrogram


Height
0.0
0.2
0.4
0.6
0.8
1.0
38052
33856
41797
41888
28432
38861
36056
38987
40033
41197
34110
35606
37972
38728
33866
37498
33100
33867
31873
41657
41651
41807
41694
32858
42159
42145
34887
36399
39066
32287
33007
37244
38823
41716
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33812
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41463
36291
41478
34765
32267
37947
35061
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37542
27635
34847
32479
39632
35719
41258
34972
41458
37383
39561
30049
37470
32445
42019
41519
35977
41460
27840
40531
33111
37192
36083
39937
41518
41475
37229
41320
34845
38238
Cluster Dendrogram
as.dist(1 – ens)
hclust (*, "complete")
Ens30