SUPPLEMENTARY-FILE-1

Supplementary materials and methods

C9orf72 repeat expansion assay

The hexanucleotide repeat in *C9orf72* was screened via repeat-primed PCR (RP-PCR) following a previously described protocol [1, 2]. Briefly, DNA extracted from blood was used to perform the experiments. Fragment length analysis was run on ABI 3730 genetic analyser (Applied Biosystems, Foster City, CA, USA) and visualized through the GeneMapper software. Based on primers' design, the first peak indicates presence of 2 repeats. For longer counts: i) a regular pattern with no obvious step indicated homozygous alleles, and; ii) a decrease of intensity represented by gradual drop of peaks' height indicated heterozygous alleles. To assess expansion length repeat counts for 1 allele (the longest) were counted. It is important to note that this method does not allow to appreciate the full length of the expansion, rather, it detects repeat counts up to a maximum of ~60-70. In such scenario, there is a consensus in the community to consider ~30 as a threshold for predicting presence of 'long' expansions (i.e. in a pathogenic range) [2-4]. For the purposes of this study we used ranges of repeat counts (rc) as follow: 'no' expansions (rc=2/3); 'short' expansions (4≤rc≤8); 'intermediate' expansions (9≤ rc≤24), and; 'long' expansions (rc≥25). We used repeat counts as a categorical variable. These ranges were based on previous reports suggesting any repeat count above 25 likely to correspond to a much larger expansion length (e.g. because of, but not limited to, repeat instability [4-7]). To the best of our knowledge (metadata provided by sites' PIs and assessment of the custom content of the NeuroArray chip [8]), none of the cases with a *C9orf72* expansion did carry pathogenic mutations in *MAPT* or *GRN* (**Supplementary Table 13**).

Genotyping

Cases were genotyped by means of the NeuroArray [8] on the Illumina Infinium platform. Data were quality checked following standard procedure using cases with genotyping call rate ≥95% and markers with GenTrain score ≥0.7. The top set of markers (missing genotype rate 95%, Hardy Weinberg's disequilibrium ≥1e-10 midp and minor allele frequency [MAF] ≥0.01) was used to assess ancestry via standard principal component analysis (PCA) against HapMap (hapmap3_r3_b36_fwd.consensus.qc.poly). We labelled outliers of the population with European ancestry individuals with > 1 standard deviation in component vector 1 and > 2 standard deviation for component vectors 2 (**Supplementary Figure 1**). Cryptic relatedness – to remove any 1st or 2nd degree related individuals – was calculated and defined as PI_HAT greater than 0.125 in order. Genotyping data for these cases were also used to extract markers belonging to previously suggested *C9orf72* locus risk-haplotype [9, 10] (see **Methods**, *C9orf72 locus risk-haplotype* section).

Supplementary Table 1. Sites contributing samples included in analyses.

Country	Site	Site PI
Belgium	University of Antwerp	Christine Van Broeckhoven
Germany	Technical University of Munich	Janine Diehl-Schmid
Italy	IRCCS Fatebenefratelli	Luisa Benussi
	University of Brescia	Barbara Borroni
	Neurogenetic regional center	Amalia Bruni
	University of Treviso	Maurizio Gallucci
	University of Milan	Valeria Novelli
	University of Turin	Innocenzo Rainero
	University of Florence	Benedetta Nacmias
	Istituto Neurologico C.Besta	Giacomina Rossi
Netherlands	VUmc, Amsterdam	Yolande Pijnenburg
	Erasmus Medical Center, Rotterdam	John Van Swieten
Scandinavia	Karolinska Institute, Stockholm	Caroline Graff
	Lund University Neuroscience	Maria Landqvist Waldö
	NTNU, Trondheim	Geir Bråthen
Slovenia	University of Lubjana	Boris Rogelj
Spain	Fundacio ACE	Agustin Ruiz
	San Pau	Jordi Clarimon
	Hospital Universitario Central de Asturias	Manuel Menendez Gonzalez
	University of Barcelona	Pau Pastor
	Hospital Clinic – IDIBAPS	Raquel Sanchez-Valle
UK	University of Cambridge	James Rowe
	University of Manchester	Stuart Pickering-Brown
	University of Sheffield	David Blackburn
	University of Edinburgh	Pal Suvankar
USA	USCF	Jennifer Yokoyama
	UPENN	Vivianna Van Deerlin
	Columbia University	Edward Huey

Supplementary Table 2. Cohort demographics.

A. Entire cohort demographics (*group 0*)

Repeat expansion	No expansions	Pathogenic expansions	Total
	1340	56	1396
bvFTD	760/1340 (56.7%)	40/56 (71.4%)	800/1396 (57.3%)
SD	232/1340 (17.3%)	2/56 (3.6%)	234/1396 (16.8%)
PNFA	259/1340 (19.3%)	2/56 (3.6%)	261/1396 (18.7%)
FTLD-MND	89/1340 (6.6%)	12/56 (21.4%)	101/1396 (7.2%)
United States	202	13	215
Belgium	103	0	103
United Kingdom	130	2	132
The Netherlands	250	25	275
Germany	41	2	43
Italy	259	5	264
Norway	52	1	53
Slovenia	12	1	13
Spain	195	3	198
Sweden	96	4	100
Samples from women (%)	628/1340 (46.9%)	26/56 (46.4%)	654/1391* (47%)

*5/1396 samples w/o gender

B. Subset of cohort demographics (*group 3*)

Repeat expansion	'No' expansions (rc=2/3)	'Short' expansions (4≤rc≤8)	'Intermediate' expansions (9≤rc≤24)	'Long' expansions (rc≥25)	Total
Number of cases	121	401	228	36	786
bvFTD	61/121 (50.4%)	233/401 (58.1%)	142/228 (62.3%)	26/36 (72.2%)	462/786 (58.8%)
SD	28/121 (23.1%)	68/401 (16.9%)	37/228 (16.2%)	2/36 (5.5%)	135/786 (17.2%)
PNFA	23/121 (19%)	76/401 (18.9%)	37/228 (16.2%)	1/36 (2.8%)	137/786 (17.4%)
FTLD-MND	9/121 (7.4%)	24/401 (6%)	12/228 (5.3%)	7/36 (19.4%)	52/786 (6.6%)
United States	0	5	15	3	23
Belgium	1	3	2	0	6
United Kingdom	13	32	10	1	56
The Netherlands	24	129	97	25	275
Germany	13	14	14	2	43
Italy	43	82	34	1	160
Norway	7	31	14	1	53
Slovenia	3	8	1	1	13
Spain	17	81	32	1	131
Sweden	0	16	9	1	26
Samples from women (%)	63/121 (52.1%)	180/401 (44.9%)	104/228 (45.6%)	14/36 (38.9%)	361/786 (45.9%)
Mean age at onset	63	63	61	58	61

(A). The entire cohort (*group 0*) includes bvFTD, PPA and FTLD-MND cases. The proportion of cases/syndrome of non-expansion ('No expansions' column) and expansion ('Pathogenic expansions' column) carriers is shown. Samples' geographical provenance and the proportion of women are also presented. (B). The proportion of cases/syndrome (*group 3*) belonging to the 4 different repeat counts (rc) categories is shown: 'no' expansions (rc = 2/3); 'short' expansions (4 ≤ rc ≤ 8); 'intermediate' expansions (9 ≤ rc ≤ 24), and; 'long' expansions (rc ≥ 25). Samples' geographical provenance, the proportion of women is presented and mean age at onset (AAO) are shown.

Supplementary Table 3. Logistic regression for expansion length (rc categories) and syndrome (bvFTD vs. PPA).

A.

```
Call:
glm(formula = Syndrome ~ Expansion2.2, family = binomial, data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-2.1301  -1.3874   0.9159   0.9810   1.1024

Coefficients:
                           Estimate Std. Error z value Pr(>|z|)
(Intercept)                  0.1790     0.1897   0.944  0.34535
Expansion2.22_short          0.3022     0.2173   1.390  0.16443
Expansion2.23_intermediate   0.4727     0.2378   1.988  0.04684 *
Expansion2.24_long           1.9804     0.6386   3.101  0.00193 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 967.79  on 733  degrees of freedom
Residual deviance: 952.75  on 730  degrees of freedom
AIC: 960.75

Number of Fisher Scoring iterations: 4
```

```
> confint(logistic_syndrome)
Waiting for profiling to be done...
                                  2.5 %    97.5 %
(Intercept)                -0.191847382 0.5540805
Expansion2.22_short        -0.125738384 0.7277354
Expansion2.23_intermediate  0.006091439 0.9397039
Expansion2.24_long          0.865129051 3.4538051
```

```
> unique(logistic_syndrome$fitted.values)
[1] 0.5446429 0.6180371 0.6574074 0.8965517
```

B.

Repeat length comparisons	p-value	OR	CI
no repeats vs. short repeats	0.16443	1.35	-0.12 – 0.73
no repeats vs. intermediate repeats	0.04684	1.6	0.0061 – 0.94
no repeats vs. long repeats	0.00193	7.2	0.86 – 3.45

Supplementary Table 4. Logistic regression for expansion length (rc categories) and genetic ancestry.

A.

```
glm(formula = Cluster ~ Expansion2.2, family = binomial, data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-2.1301  -1.2950   0.8928   1.0642   1.2079

Coefficients:
                           Estimate Std. Error z value Pr(>|z|)
(Intercept)                -0.07146    0.18910  -0.378 0.705517
Expansion2.22_short         0.34368    0.21580   1.593 0.111241
Expansion2.23_intermediate  0.78551    0.23820   3.298 0.000975 ***
Expansion2.24_long          2.23094    0.63837   3.495 0.000474 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 989.11  on 733  degrees of freedom
Residual deviance: 963.69  on 730  degrees of freedom
AIC: 971.69

Number of Fisher Scoring iterations: 4
```

```
> confint(logistic_cluster)
Waiting for profiling to be done...
                                 2.5 %    97.5 %
(Intercept)                -0.44398270 0.2994212
Expansion2.22_short        -0.07915822 0.7682237
Expansion2.23_intermediate  0.32019839 1.2552607
Expansion2.24_long          1.11648874 3.7041768
> unique(logistic_cluster$fitted.values)
[1] 0.4821429 0.5676393 0.6712963 0.8965517
```

B.

Repeat length comparisons	p-value	OR	CI
no repeats vs. short repeats	0.11124	1.41	-0.08 – 0.77
no repeats vs. intermediate repeats	0.00098	2.2	0.32 – 1.25
no repeats vs. long repeats	0.00047	9.3	1.12 – 3.7

Supplementary Table 5. Prevalence of syndromes across 'Nordic' and 'Mediterranean' clusters.

A.

	Clusters	
Syndromes	**Mediterranean**	**Nordic**
bvFTD	331/500 (66%)	469/795 (59%)
PPA	169/500 (33.8%)	326/795 (41%)

B.

	Syndromes	
Clusters	bvFTD	PPA
Mediterranean	331/800 (41.4%)	169/495 (34.1%)
Nordic	469/800 (58.6%)	326/495 (65.9%)

Supplementary Table 6. Correlation between mean AAO, syndrome and genetic ancestry (t-test).

A.

```
> t.test(file_trimmed$Ageofonset ~ file_trimmed$Syndrome)

        Welch Two Sample t-test

data:  file_trimmed$Ageofonset by file_trimmed$Syndrome
t = -4.3009, df = 1011.5, p-value = 1.866e-05
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -3.340604 -1.247317
sample estimates:
mean in group bvFTD   mean in group PPA
           61.73677            64.03073
```

B.

```
> t.test(file_trimmed$Ageofonset ~ file_trimmed$Cluster)

        Welch Two Sample t-test

data:  file_trimmed$Ageofonset by file_trimmed$Cluster
t = 5.3381, df = 989.87, p-value = 1.165e-07
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 1.862380 4.027659
sample estimates:
mean in group Mediterranean        mean in group Nordic
                   64.30083                    61.35581
```

C.

Test	p-value	CI
age at onset and syndrome	1.866e-05	-3.34 – -1.25
age at onset and ancestry	1.165e-07	1.86 – 4.03

Supplementary Table 7. Correlation between AAO, pathogenic expansions and genetic ancestry (logistic regression)

A model0

```
Call:
glm(formula = Ageofonset ~ C9orf72_screening, family =
gaussian, data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-42.728   -5.728    0.272    6.272   27.272

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)       62.7281     0.2746 228.442  < 2e-16 ***
C9orf72_screening -5.0870     1.5098  -3.369 0.000778 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 85.95639)

    Null deviance: 102147  on 1178  degrees of freedom
Residual deviance: 101171  on 1177  degrees of freedom
AIC: 8600.9

Number of Fisher Scoring iterations: 2
```

```
> rsq(model0,adj=TRUE,type=c('v'),data=NULL)
[1] 0.008712012
```

```
> confint(model0)      2.5 %   97.5 %
(Intercept)      62.189881 63.266259
C9orf72_screening -8.046143 -2.127946
```

B model1

```
Call:
glm(formula = Ageofonset ~ C9orf72_screening + Cluster, family =
gaussian, data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-41.552   -5.552    0.448    6.448   28.448

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)       64.3861     0.4186 153.804  < 2e-16 ***
C9orf72_screening -4.5652     1.4967  -3.050  0.00234 **
ClusterNordic     -2.8338     0.5445  -5.205 2.29e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 84.09247)

    Null deviance: 102147  on 1178  degrees of freedom
Residual deviance:  98893  on 1176  degrees of freedom
AIC: 8576.1

Number of Fisher Scoring iterations: 2
```

```
> pval <- 1-pchisq(l0-l1, df0-df1)
> pval
[1] 0
```

```
> rsq(model1,adj=TRUE,type=c('v'),data=NULL)
[1] 0.03020766
```

```
> confint(model1)      2.5 %   97.5 %
(Intercept)      63.565583 65.206562
C9orf72_screening -7.498654 -1.631798
ClusterNordic    -3.900905 -1.766630
```

C model2

```
Call:
glm(formula = Ageofonset ~ C9orf72_screening + PC1, family =
gaussian, data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-42.061   -5.777    0.273    6.181   27.740

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)       62.6449     0.2723 230.030  < 2e-16 ***
C9orf72_screening -4.6005     1.4977  -3.072  0.00218 **
PC1               49.5303     9.8943   5.006 6.41e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 84.23452)

    Null deviance: 102147  on 1178  degrees of freedom
Residual deviance:  99060  on 1176  degrees of freedom
AIC: 8578.1

Number of Fisher Scoring iterations: 2
```

```
> pval <- 1-pchisq(l0-l2, df0-df2)
> pval
[1] 0
```

```
> rsq(model2,adj=TRUE,type=c('v'),data=NULL)
[1] 0.02856941
```

```
> confint(model2)      2.5 %   97.5 %
(Intercept)      62.111180 63.178709
C9orf72_screening -7.535977 -1.664981
PC1              30.137845 68.922737
```

Test	p-value	CI	R^2
age at onset and pathogenic expansion	0.00077	-8.05 – -2.13	0.008

Test	p-value	CI	R^2
age at onset and pathogenic expansion	0.00234	-7.5 – -1.63	0.03
age at onset and Nordic ancestry	2.29e-07	-3.9 – -1.77	

Test	p-value	CI	R^2
age at onset and pathogenic expansion	0.00218	-7.5 – -1.66	0.028
age at onset and PC1	6.41e-07	30.1 – 68.9	

Supplementary Table 8. Correlation between AAO, syndrome and genetic ancestry (t-test and ANOVA).

A.

```
> t.test(file_trimmed$Ageofonset ~ file_trimmed$Cluster)

        Welch Two Sample t-test

data:  file_trimmed$Ageofonset by file_trimmed$Cluster
t = 5.2475, df = 601.05, p-value = 2.141e-07
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 2.316708 5.087979
sample estimates:
mean in group Mediterranean        mean in group Nordic
                   64.62034                    60.91800
```

B.

```
> t.test(file_trimmed$Ageofonset ~ file_trimmed$Syndrome)

        Welch Two Sample t-test

data:  file_trimmed$Ageofonset by file_trimmed$Syndrome
t = -2.6132, df = 659.37, p-value = 0.009175
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -3.1157215 -0.4422426
sample estimates:
mean in group bvFTD   mean in group PPA
           61.74675            63.52574
```

C.

Test	p-value	CI
age at onset and ancestry	2.141e-07	2.32 – 5.09
age at onset and syndrome	0.00917	-3.11 – -0.44

D.

```
> ANOVA <- aov(file_trimmed$Ageofonset ~ file_trimmed$Repeat_Leng
> summary(ANOVA)
                             Df Sum Sq Mean Sq F value Pr(>F)
file_trimmed$Repeat_Length    3   1357   452.4   5.189 0.0015 **
Residuals                   730  63652    87.2
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
> model.tables(ANOVA, "means")
Tables of means
Grand mean

    62.40599

 file_trimmed$Repeat_Length
      1_NO 2_short 3_intermediate 4_long
     63.24   63.29          61.01     58
rep 112.00  377.00         216.00     29
> TukeyHSD(ANOVA)
  Tukey multiple comparisons of means
    95% family-wise confidence level

Fit: aov(formula = file_trimmed$Ageofonset ~ file_trimmed$Repeat_Length)

$`file_trimmed$Repeat_Length`
                               diff        lwr        upr     p adj
2_short-1_NO             0.05335828  -2.534192  2.6409083 0.9999462
3_intermediate-1_NO     -2.22718254  -5.026905  0.5725403 0.1713850
4_long-1_NO             -5.24107143 -10.250816 -0.2313272 0.0362683
3_intermediate-2_short  -2.28054082  -4.332382 -0.2286993 0.0224402
4_long-2_short          -5.29442971  -9.927910 -0.6609491 0.0176524
4_long-3_intermediate   -3.01388889  -7.769115  1.7413373 0.3611985
```

E.

Test	p-value adj	CI
short repeats and no repeats	0.99995	-2.53 – 2.64
intermediate repeats and no repeats	0.17138	-5.02 – 0.57
long repeats and no repeats	0.03627	-10.25 – -0.23
intermediate repeats and short repeats	0.02244	-4.33 – -0.23
long repeats and short repeats	0.01765	-9.93 – -0.66
long repeats and intermediate repeats	0.36120	-7.77 – 1.74

Supplementary Table 9. Correlation between AAO, repeat counts and genetic ancestry (logistic regression)

A model0

```
Call:
glm(formula = Ageofonset ~ Repeat_Length, family = gaussian,
    data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-41.014   -5.294   -0.014    5.986   26.706

Coefficients:
                           Estimate Std. Error t value Pr(>|t|)
(Intercept)                63.24107    0.88234  71.674  < 2e-16 ***
Repeat_Length2_short        0.05336    1.00489   0.053  0.95767
Repeat_Length3_intermediate -2.22718    1.08729  -2.048  0.04088 *
Repeat_Length4_long         -5.24107    1.94556  -2.694  0.00723 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 87.1942)

    Null deviance: 65009  on 733  degrees of freedom
Residual deviance: 63652  on 730  degrees of freedom
AIC: 5368.6

Number of Fisher Scoring iterations: 2
```

B model1

```
Call:
glm(formula = Ageofonset ~ Repeat_Length + Cluster, family = gaussian,
    data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-40.262   -5.847    0.145    6.153   28.153

Coefficients:
                           Estimate Std. Error t value Pr(>|t|)
(Intercept)                 64.8555     0.9335  69.478  < 2e-16 ***
Repeat_Length2_short         0.3396     0.9922   0.342   0.7322
Repeat_Length3_intermediate -1.5938     1.0798  -1.476   0.1404
Repeat_Length4_long         -3.8535     1.9395  -1.987   0.0473 *
ClusterNordic               -3.3484     0.7041  -4.756 2.38e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 84.68637)

    Null deviance: 65009  on 733  degrees of freedom
Residual deviance: 61736  on 729  degrees of freedom
AIC: 5348.2

Number of Fisher Scoring iterations: 2
```

C model2

```
Call:
glm(formula = Ageofonset ~ Repeat_Length + PC1, family = gaussian,
    data = file_trimmed)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-41.129   -5.823    0.150    5.972   27.228

Coefficients:
                           Estimate Std. Error t value Pr(>|t|)
(Intercept)                 62.6642     0.8767  71.476  < 2e-16 ***
Repeat_Length2_short         0.6238     0.9963   0.626   0.5314
Repeat_Length3_intermediate -1.3926     1.0840  -1.285   0.1993
Repeat_Length4_long         -3.6628     1.9426  -1.886   0.0598 .
PC1                         66.3448    13.5470   4.897  1.2e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 84.53265)

    Null deviance: 65009  on 733  degrees of freedom
Residual deviance: 61624  on 729  degrees of freedom
AIC: 5346.8

Number of Fisher Scoring iterations: 2
```

```
> pval <- 1-pchisq(l0-l1, df0-df1)
> pval
[1] 0
```

```
> pval <- 1-pchisq(l0-l2, df0-df2)
> pval
[1] 0
```

```
> rsq(model0,adj=TRUE,type=c('v'),data=NULL)
[1] 0.01685402
```

```
> rsq(model1,adj=TRUE,type=c('v'),data=NULL)
[1] 0.04513069
```

```
> rsq(model2,adj=TRUE,type=c('v'),data=NULL)
[1] 0.04686393
```

```
> confint(model0)                2.5 %     97.5 %
(Intercept)              61.511721 64.97042137
Repeat_Length2_short     -1.916190  2.02290659
Repeat_Length3_intermediate -4.358229 -0.09613602
Repeat_Length4_long      -9.054305 -1.42783756
```

```
> confint(model1)      2.5 %     97.5 %
(Intercept)            63.025904 66.68502596
Repeat_Length2_short   -1.604968  2.28423238
Repeat_Length3_intermediate -3.710162  0.52250857
Repeat_Length4_long    -7.654734 -0.05221888
ClusterNordic          -4.728306 -1.96843651
```

```
> confint(model2)      2.5 %     97.5 %
(Intercept)            60.945917 64.3825756
Repeat_Length2_short   -1.328846  2.5764490
Repeat_Length3_intermediate -3.517332  0.7320364
Repeat_Length4_long    -7.470118  0.1445733
PC1                    39.793168 92.8963489
```

Test	p-value	CI	R^2
age at onset and short repeats	0.95767	-1.92 – 2.02	0.017
age at onset and intermediate repeats	0.04088	-4.36 – -0.09	
age at onset and long repeats	0.00723	-9.05 – 1.43	

Test	p-value	CI	R^2
age at onset and short repeats	0.7322	-1.6 – 2.28	0.045
age at onset and intermediate repeats	0.1404	-3.7 – 0.52	
age at onset and long repeats	0.0473	-7.6 – -0.05	
age at onset and Nordic ancestry	2.38e-06	-4.73 – 1.97	

Test	p-value	CI	R^2
age at onset and short repeats	0.5314	-1.33 – 2.57	0.047
age at onset and intermediate repeats	0.1993	-3.52 – 0.73	
age at onset and long repeats	0.0598	-7.47 – 0.14	
age at onset and PC1	1.2e-06	39.8 – 92.9	

Supplementary Table 10. Correlation between AAO, repeat counts and genetic ancestry (non-linear mixed-effect model regression).

```
Linear mixed model fit by REML ['lmerMod']
Formula: Ageofonset ~ Repeat_Length + (1 | Cluster)
   Data: file_trimmed

REML criterion at convergence: 5334.6

Scaled residuals:
    Min      1Q  Median      3Q     Max
-4.3643 -0.6423  0.0097  0.6617  3.0523

Random effects:
 Groups   Name        Variance Std.Dev.
 Cluster  (Intercept)  5.358   2.315
 Residual             84.686   9.203
Number of obs: 734, groups:  Cluster, 2

Fixed effects:
                            Estimate Std. Error t value
(Intercept)                  63.1839     1.8534  34.090
Repeat_Length2_short          0.3270     0.9921   0.330
Repeat_Length3_intermediate  -1.6218     1.0794  -1.503
Repeat_Length4_long          -3.9148     1.9385  -2.020

Correlation of Fixed Effects:
            (Intr) Rp_L2_ Rp_L3_
Rpt_Lngth2_ -0.412
Rpt_Lngth3_ -0.379  0.713
Rpt_Lngth4_ -0.211  0.402  0.379
```

```
> coefs <- as.data.frame(coef(summary(random)))
> coefs$p.z <- 2 * (1 - pnorm(abs(coefs$t)))
> coefs
                              Estimate Std. Error   t value        p.z
(Intercept)                 63.1839227  1.8534432 34.090024 0.00000000
Repeat_Length2_short         0.3269748  0.9920806  0.329585 0.74171357
Repeat_Length3_intermediate -1.6218294  1.0794195 -1.502501 0.13296765
Repeat_Length4_long         -3.9148269  1.9384823 -2.019532 0.04343196
```

Test	p-value	OR
no repeats and short repeats	0.74171	1.386
no repeats and intermediate repeats	0.13297	0.197
no repeats and long repeats	0.04343	0.019

Supplementary Table 11. Syndrome prediction using pathogenic expansions and genetic ancestry – as either cluster or PC1 (LOOCV and K-fold regression models) in *group 2*.

```
model_LOOCV<- train(Syndrome ~ (C9orf72_screening +
Cluster + Ageofonset), method="glm", family=binomial,
 data=file_trimmed, trControl = train.control)
> print(model_LOOCV)
Generalized Linear Model

1179 samples
   3 predictor
   2 classes: '0', '1'

No pre-processing
Resampling: Leave-One-Out Cross-Validation
Summary of sample sizes: 1178, 1178, 1178, 1178, 1178, 1178, ...
Resampling results:

  Accuracy   Kappa
  0.6403732  0.01409351
```

```
> model_LOOCV<- train(Syndrome ~ (C9orf72_screening +
PC1 + Ageofonset), method="glm", family=binomial,
data=file_trimmed, trControl = train.control)
> print(model_LOOCV)
Generalized Linear Model

1179 samples
   3 predictor
   2 classes: '0', '1'

No pre-processing
Resampling: Leave-One-Out Cross-Validation
Summary of sample sizes: 1178, 1178, 1178, 1178, 1178, 1178, ...
Resampling results:

  Accuracy   Kappa
  0.6403732  0.02434569
```

```
model_k<- train(Syndrome ~ (C9orf72_screening + Cluster+
Ageofonset), method="glm", family=binomial, data=file_
trimmed, trControl = train.control)
> print(model_k)
Generalized Linear Model

1179 samples
   3 predictor
   2 classes: '0', '1'

No pre-processing
Resampling: Cross-Validated (10 fold)
Summary of sample sizes: 1062, 1060, 1060, 1061, 1061, 1062, ...
Resampling results:

  Accuracy   Kappa
  0.6404496  0.01814509
```

```
> model_k<- train(Syndrome ~ (C9orf72_screening + PC1 +
Ageofonset), method="glm", family=binomial, data=file_
trimmed, trControl = train.control)
> print(model_k)
Generalized Linear Model

1179 samples
   3 predictor
   2 classes: '0', '1'

No pre-processing
Resampling: Cross-Validated (10 fold)
Summary of sample sizes: 1061, 1062, 1061, 1061, 1061, 1061, ...
Resampling results:

  Accuracy   Kappa
  0.6395066  0.02384289
```

Supplementary Table 12. Syndrome prediction using repeat counts and genetic ancestry – as either cluster or PC1 (LOOCV and K-fold regression models) in *group 3*.

```
> model_LOOCV<- train(Syndrome ~ (Repeat_Length +
Cluster + Ageofonset), method="glm", family=
binomial, data=file_trimmed, trControl = train.control)
> print(model_LOOCV)
Generalized Linear Model

734 samples
  3 predictor
  2 classes: '0', '1'

No pre-processing
Resampling: Leave-One-Out Cross-Validation
Summary of sample sizes: 733, 733, 733, 733, 733, 733, ...
Resampling results:

  Accuracy  Kappa
  0.619891  0.001813237
```

```
> model_LOOCV<- train(Syndrome ~ (Repeat_Length +
PC1 + Ageofonset), method="glm", family=
binomial, data=file_trimmed, trControl = train.control
> print(model_LOOCV)
Generalized Linear Model

734 samples
  3 predictor
  2 classes: '0', '1'

No pre-processing
Resampling: Leave-One-Out Cross-Validation
Summary of sample sizes: 733, 733, 733, 733, 733, 733, ...
Resampling results:

  Accuracy   Kappa
  0.6226158  0.02343923
```

```
> model_k<- train(Syndrome ~ (Repeat_Length +
Cluster + Ageofonset), method="glm", family=
binomial, data=file_trimmed, trControl = train.control)
> print(model_k)
Generalized Linear Model

734 samples
  3 predictor
  2 classes: '0', '1'

No pre-processing
Resampling: Cross-Validated (10 fold)
Summary of sample sizes: 659, 661, 661, 661, 660, 661, ...
Resampling results:

  Accuracy   Kappa
  0.6173116  -0.000821965
```

```
> model_k<- train(Syndrome ~ (Repeat_Length + PC1 +
Ageofonset), method="glm", family=binomial, data=
file_trimmed, trControl = train.control)
> print(model_k)
Generalized Linear Model

734 samples
  3 predictor
  2 classes: '0', '1'

No pre-processing
Resampling: Cross-Validated (10 fold)
Summary of sample sizes: 661, 661, 661, 661, 660, 660, ...
Resampling results:

  Accuracy   Kappa
  0.6185487  0.0144187
```

Supplementary Table 13. *MAPT* and *GRN* screening through NeuroArray chip.

A.

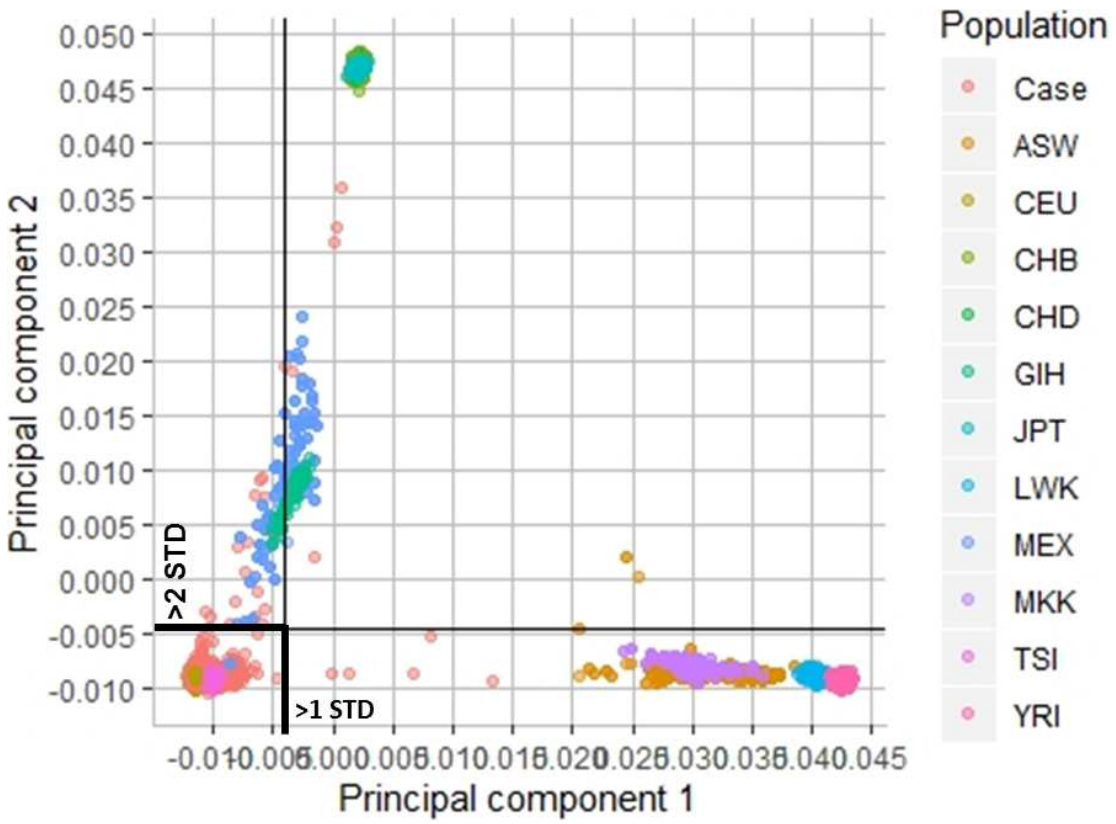
	rs number	bp	type (ncbi)	AA change	ClinVar result
MAPT	rs63751273	44087755	missense_variant	P [Pro] 636 L [Leu]	Pathogenic
	rs63750129	44073978	missense_variant	K [Lys] 592 I [Ile]	Pathogenic
	rs63751264	44096092	missense_variant	K [Lys] 704 I [Ile]	Pathogenic
	rs63750424	44101427	missense_variant	R [Arg] 741 W [Trp]	Pathogenic
	rs63750512	44101376	missense_variant	G [Gly] 724 A [Arg]	Likely pathogenic
	rs762213614	44064420	missense_variant	K [Lys] 381 E [Glu]	Uncertain
	rs778551946	44096059	missense_variant	D [Asp] 693 G [Gly]	Uncertain
	rs199422218	44087739	cds-indel	Uncertain	Uncertain
	rs63750869	44096073	missense_variant	V [Val] 698 I [Ile]	Uncertain
	rs867338908	44076801	STOP-GAIN	W [Trp] 52 Ter[*] [OPA]	Uncertain
	rs368281503	44077030	STOP-LOSS	Ter[*] [OPA] 129 Q [Gln]	Uncertain
	rs756593540	44101449	missense_variant	S [Ser] 748 F [Phe]	Uncertain
	rs63749855	44091637	missense_variant	L [Leu] 650 R [Arg]	Uncertain
	rs63751392	44087737	cds-indel	Uncertain	Uncertain
	rs760321754	44061284	missense_variant	P [Pro] 372 A [Ala]	Uncertain
	rs63750096	44073923	missense_variant	A [Ala] 574 T [Thr]	Uncertain
	rs143956882	44067341	missense_variant	S [Ser] 427 F [Phe]	Uncertain
GRN	rs794729670	42428777	STOP-GAIN	Y [Tyr] 294 Ter[*] [OPA]	Pathogenic
	rs63750411	42427098	STOP-GAIN	R [Arg] 110 Ter[*] [OPA]	Pathogenic
	rs63750548	42428403	splice_acceptor_variant	Uncertain	Pathogenic
	rs63749801	42427634	frameshift	Q [Gln] 130 S [Ser]	Pathogenic
	rs63750707	42428829	splice_donor_variant	Uncertain	Likely pathogenic
	rs1555610861	42426551	missense_variant	W [Trp] 7 R [Arg]	Uncertain
	rs63751000	42428469	missense_variant	S [Ser] 258 N [Asn]	Uncertain
	rs768033215	42428787	missense_variant	R [Arg] 298 C [Cys]	Uncertain
	rs373885474	42429429	missense_variant	T [Thr] 409 M [Met]	Uncertain
	rs778265623	42429718	missense_variant	C [Cys] 475 R [Arg]	Uncertain
	rs757831826	42429721	missense_variant	E [Glu] 476 K [Lys]	Uncertain
	rs63750202	42427087	missense_variant	S [Ser] 106 N [Asn]	Uncertain
	rs63750768	42427630	frameshift	Q [Gln] 130 S [Ser]	Uncertain
	rs763841075	42427661	missense_variant	C [Cys] 139 R [Arg]	Uncertain
	rs747871140	42429410	missense_variant	C [Cys] 403 G [Gly]	Uncertain
	rs1468026487	42429934	missense_variant	R [Arg] 547 C [Cys]	Uncertain

B.

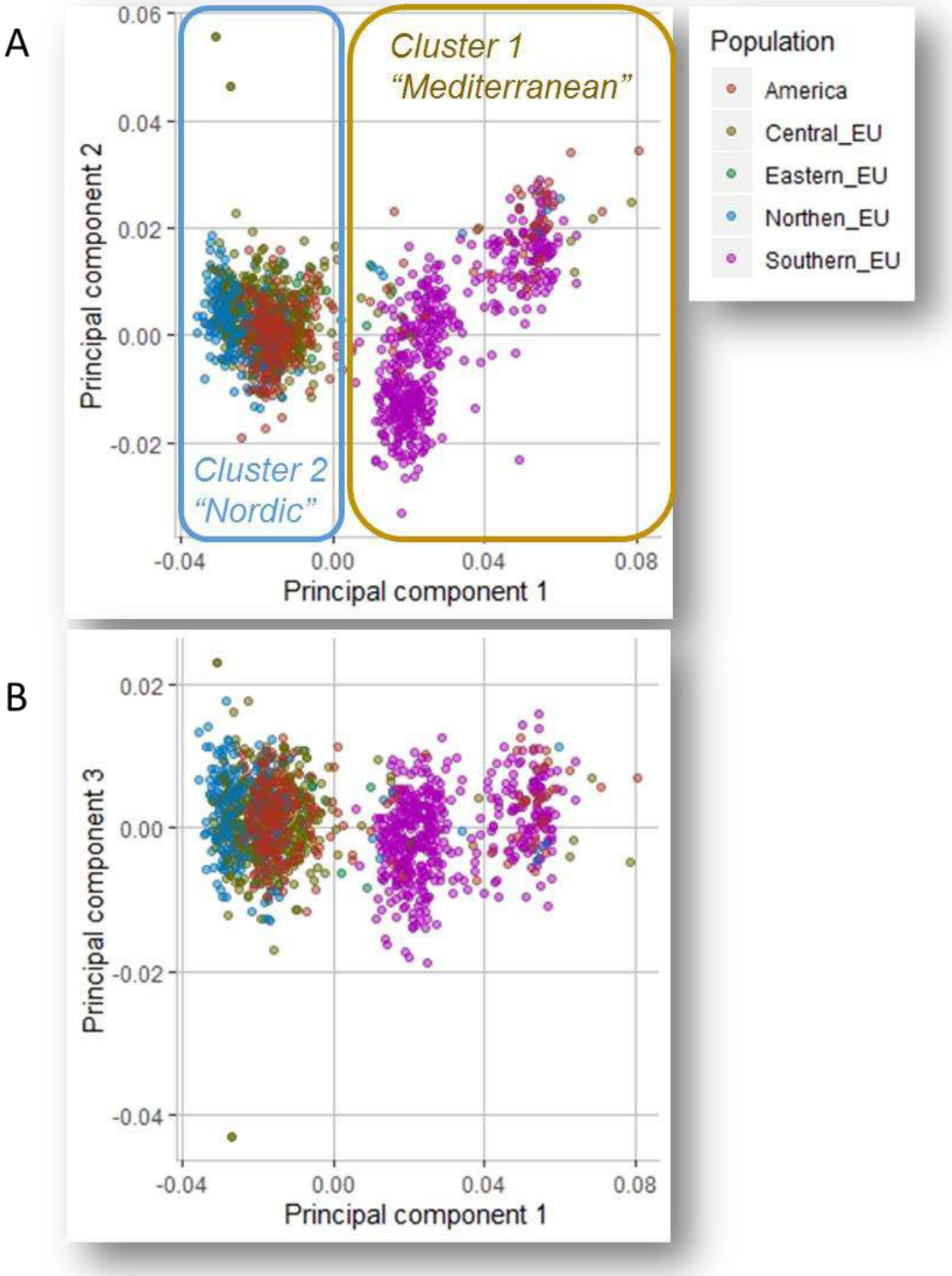
	rs number	bp	type (ncbi)	n of C9orf72 cases	Diagnosis	Ancestry
MAPT	rs188838950	44028005	negligible (intronic) variant	1	FTD-MND	Nordic
	rs189843250	43976977	negligible (intronic) variant	1	PPA	Nordic
	rs190578367	43983727	negligible (intronic) variant	1	FTD-MND	Nordic
	rs139551163	43984124	negligible (intronic) variant	1	bvFTD	Mediterranean
	rs150637158	44054421	negligible (intronic) variant	2	bvFTD	Nordic
	rs184054547	43987517	negligible (intronic) variant	1	bvFTD	Mediterranean
	rs139197430	43975888	negligible (intronic) variant	1	bvFTD	Nordic
	rs117922561	44081285	negligible (intronic) variant	1	bvFTD	Nordic
	rs184333823	44007413	negligible (intronic) variant	1	PPA	Nordic
GRN	rs63750742	42426631	negligible (synonymous) variant	1	bvFTD	Nordic

The entire cohort was screened for pathogenic variants in the *MAPT* (NM_001123066.3) and *GRN* (NM_002087.2) FTLD-associated genes. All pathogenic/likely pathogenic variants found in our total cohort are shown (A). Variants found in all *C9orf72* expansion carriers within our cohort are shown (B). None of the variants found in our *C9orf72* expansion carriers were pathogenic/likely pathogenic.

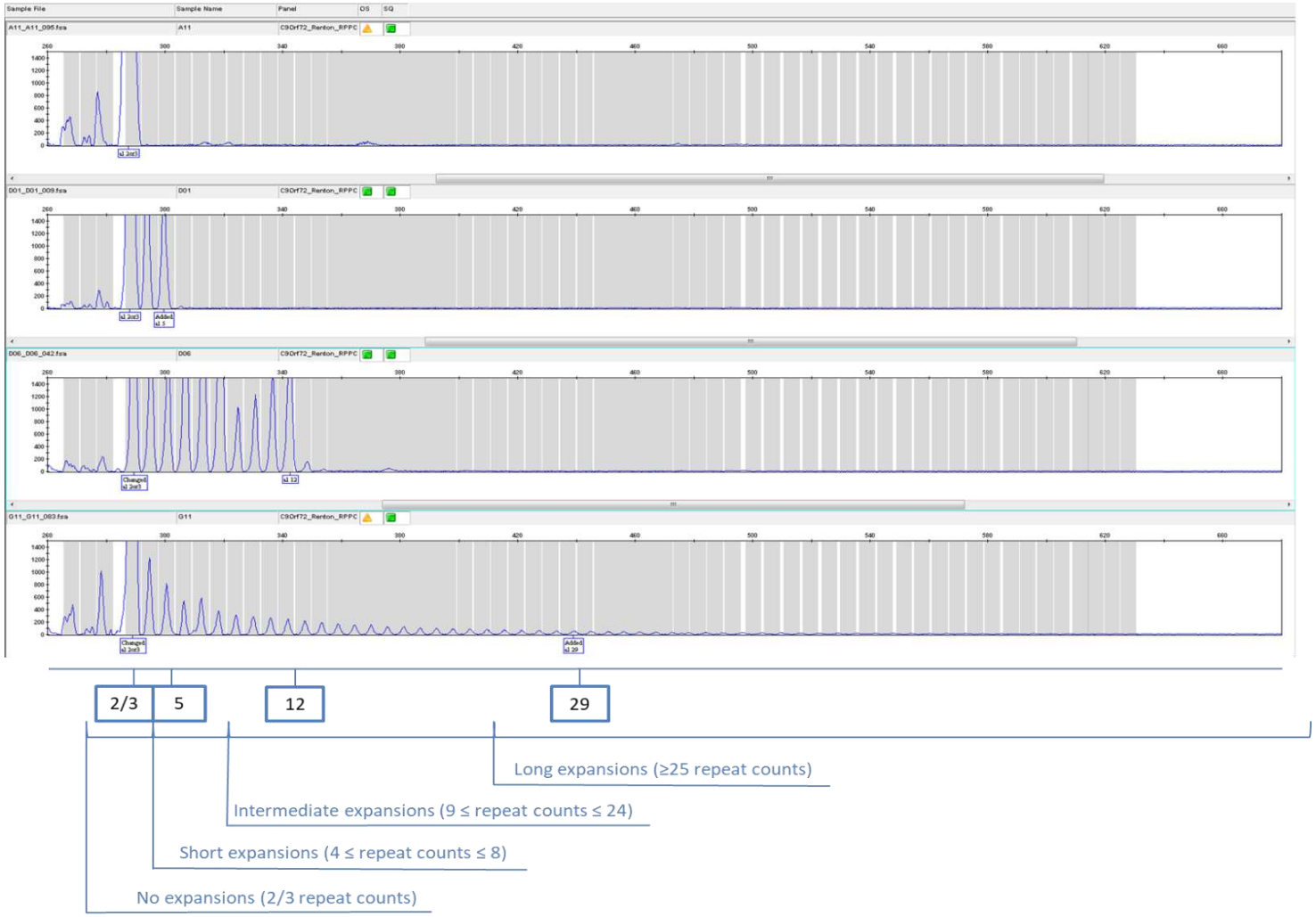
Supplementary Figure 1. PCA for the entire cohort (against hapmap3).



Supplementary Figure 2. PCA-based cohort samples clustering.



Supplementary Figure 3. Electropherograms for 4 different repeat counts (rc) categories.



Four electropherograms are shown. From the top: the first shows 1 peak which is indicative of 2-3 repeat counts; the second represents an example of 5 repeat counts; the third provides a visual representation of a repeat count of 12, and; the fourth indicates repeat counts larger than 25.

Supplementary Figure 4.

	SNP	rs1822723		rs4879515		rs868856		rs1977661		rs903603		rs10122902		rs2282241			rs1948522		rs1982915		rs2453556		rs702231		rs696826		rs2477518	
	risk-allele	C		T		T		C		C		G		G			C		G		G		A		G		T	
Nordic cluster	C9+ (% of risk-allele carrier)	100		98		98		100		100		100		96			96		93		96		100		100		84	
	C9- (% of risk-allele carrier)	91		71		47		98		79		95		78			95		78		65		92		97		91	
	Expansion status	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-		C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-
	risk-allele carrier count	47	752	46	588	46	387	47	807	47	650	47	785	45	642		45	781	44	644	45	534	47	763	47	804	40	747
	no risk-allele carrier count	0	74	1	238	1	439	0	19	0	176	0	41	2	184		2	45	3	182	2	292	0	63	0	22	7	79
	total	47	826	47	826	47	826	47	826	47	826	47	826	47	826		47	826	47	826	47	826	47	826	47	826	47	826
	p-value	0.0272		0.0001		0.0001		0.6182		0.0001		0.1611		0.0015			1		0.0091		0.0001		0.0422		0.6256		0.2134	
	p-value (corrected)	0.3536		0.0013		0.0013		1		0.0013		1		0.0195			1		0.1183		0.0013		0.5486		1		1	
Mediterranean cluster	C9+ (% of risk-allele carrier)	100		78		100		100		100		100		100			89		100		100		78		100		100	
	C9- (% of risk-allele carrier)	91		75		54		98		77		98		81			97		76		62		92		97		91	
	Expansion status	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-		C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-	C9+	C9-
	risk-allele carrier count	9	469	7	384	9	276	9	503	9	396	9	501	9	415		8	500	9	389	9	319	7	473	9	497	9	469
	no risk-allele carrier count	0	45	2	130	0	238	0	11	0	118	0	13	0	99		1	14	0	125	0	195	2	41	0	17	0	45
	total	9	514	9	514	9	514	9	514	9	514	9	514	9	514		9	514	9	514	9	514	9	514	9	514	9	514
	p-value	1		1		0.00480		1		0.21950		1		0.21930			0.23200		0.12320		0.03010		0.16440		1		1	
	p-value (corrected)	1		1		0.06240		1		1		1		1			1		1		0.39130		1		1		1	
Mok et al [10]	Finland																											
	Ireland																											
	Italy																											
	UK																											
	USA																											
Chiang et al [11]	Haplotype 2					NA				NA																		

EXPANSION

We analysed the frequency of the risk-alleles for 13 informative SNPs belonging to the original Finnish risk-haplotype. The proportion of carriers of all risk-alleles was higher among the group of *C9orf72* expansion carriers vs. non-expansions carriers in both the 'Nordic' and the 'Mediterranean' cluster. Fisher's Exact test assessing the differences in the risk-allele carriers indicated 8/13 (rs1822723, rs4879515, rs868856, rs903603, rs2282241, rs1982915, rs2453556 and rs702231) markers in the Nordic cluster and 2/13 (rs868856 and rs2453556) in the 'Mediterranean' cluster significantly more frequent in expansions carriers, before correction. After correction, 5/13 markers (rs4879515, rs868856, rs903603, rs2282241, rs2453556) were significant in the 'Nordic' cluster, none in the 'Mediterranean' cluster. Considering the non-corrected p-values, there is clearly a trend for a longer conserved risk-haplotype in the 'Nordic' (8/13) vs. the 'Mediterranean' (2/13) cluster in our cohort, which mirrors previous results from Mok et al [10]. Our results (see overlap highlighted in green and/or red) are in line with two other reports – Mok et al [10] and Chiang et al [11].

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SUPPLEMENTRY-FILE-2

Expansion status, clusters (based on genetic ancestry) and age at onset (AAO)

Cases	bvFTD	PPA	FTLD-MND	Expansion (Yes/no)	Repeat count categories	Cluster	AAO
Sample1	0	0	1	0	NA	Nordic	NA
Sample2	0	1	0	0	NA	Nordic	NA
Sample3	0	1	0	0	NA	Nordic	NA
Sample4	1	0	0	0	NA	Nordic	NA
Sample5	0	1	0	0	NA	Nordic	NA
Sample6	1	0	0	0	NA	Nordic	NA
Sample7	1	0	0	0	NA	Nordic	NA
Sample8	1	0	0	0	NA	Nordic	NA
Sample9	0	1	0	0	NA	Nordic	NA
Sample10	0	1	0	0	NA	Nordic	NA
Sample11	1	0	0	0	NA	Nordic	NA
Sample12	1	0	0	0	NA	Mediterranean	NA
Sample13	0	0	1	1	NA	Nordic	NA
Sample14	0	0	1	0	NA	Nordic	NA
Sample15	0	1	0	0	NA	Nordic	NA
Sample16	0	1	0	0	NA	Nordic	NA
Sample17	0	1	0	0	NA	Nordic	NA
Sample18	0	1	0	0	NA	Nordic	NA
Sample19	0	1	0	0	NA	Nordic	NA
Sample20	0	1	0	0	NA	Mediterranean	NA
Sample21	0	0	1	1	NA	Nordic	NA
Sample22	0	1	0	0	NA	Nordic	NA
Sample23	0	1	0	0	NA	Nordic	NA
Sample24	0	1	0	0	NA	Nordic	NA

Sample25	1	0	0	1	NA	Nordic	NA
Sample26	1	0	0	1	NA	Nordic	NA
Sample27	1	0	0	0	NA	Nordic	NA
Sample28	0	1	0	0	NA	Nordic	NA
Sample29	0	1	0	0	NA	Mediterranean	NA
Sample30	0	1	0	0	NA	Mediterranean	NA
Sample31	0	0	1	0	NA	Nordic	NA
Sample32	0	1	0	0	NA	Nordic	NA
Sample33	0	0	1	0	NA	Nordic	NA
Sample34	1	0	0	0	NA	Nordic	NA
Sample35	1	0	0	0	NA	Mediterranean	NA
Sample36	1	0	0	1	NA	Nordic	NA
Sample37	1	0	0	0	NA	Nordic	NA
Sample38	1	0	0	0	NA	Nordic	NA
Sample39	0	1	0	0	NA	Nordic	NA
Sample40	0	1	0	0	NA	Mediterranean	NA
Sample41	0	1	0	0	NA	Nordic	NA
Sample42	0	1	0	0	NA	Nordic	NA
Sample43	0	1	0	0	NA	Nordic	NA
Sample44	0	1	0	0	NA	Nordic	NA
Sample45	1	0	0	0	NA	Nordic	NA
Sample46	1	0	0	0	NA	Nordic	NA
Sample47	1	0	0	0	NA	Nordic	NA
Sample48	1	0	0	0	NA	Nordic	NA
Sample49	1	0	0	0	NA	Nordic	NA
Sample50	0	1	0	0	NA	Nordic	NA
Sample51	0	0	1	0	NA	Nordic	NA
Sample52	1	0	0	0	NA	Nordic	NA
Sample53	0	1	0	0	NA	Nordic	NA
Sample54	1	0	0	0	NA	Nordic	NA
Sample55	1	0	0	1	NA	Nordic	NA

Sample56	1	0	0	0	NA	Nordic	NA
Sample57	1	0	0	0	NA	Nordic	NA
Sample58	1	0	0	0	NA	Nordic	NA
Sample59	1	0	0	0	NA	Nordic	NA
Sample60	0	1	0	0	NA	Nordic	NA
Sample61	1	0	0	0	NA	Nordic	NA
Sample62	0	1	0	0	NA	Nordic	NA
Sample63	0	1	0	0	NA	Nordic	NA
Sample64	0	1	0	0	NA	Nordic	NA
Sample65	1	0	0	0	NA	Nordic	NA
Sample66	0	1	0	0	NA	Nordic	NA
Sample67	0	0	1	1	NA	Nordic	NA
Sample68	0	1	0	0	NA	Nordic	NA
Sample69	0	1	0	0	NA	Nordic	NA
Sample70	0	1	0	0	NA	Nordic	NA
Sample71	0	1	0	0	NA	Nordic	NA
Sample72	0	1	0	0	NA	Nordic	NA
Sample73	0	1	0	0	NA	Nordic	NA
Sample74	0	1	0	0	NA	Nordic	NA
Sample75	1	0	0	0	NA	Mediterranean	NA
Sample76	0	1	0	0	NA	Nordic	NA
Sample77	0	1	0	0	NA	Mediterranean	NA
Sample78	0	1	0	0	NA	Nordic	NA
Sample79	1	0	0	0	NA	Nordic	NA
Sample80	0	1	0	0	NA	Nordic	NA
Sample81	0	1	0	0	NA	Nordic	NA
Sample82	0	1	0	0	NA	Mediterranean	NA
Sample83	0	1	0	0	NA	Nordic	NA
Sample84	0	1	0	0	NA	Nordic	NA
Sample85	0	1	0	0	NA	Nordic	NA
Sample86	0	0	1	1	NA	Nordic	NA

Sample87	0	1	0	0	NA	Nordic	NA
Sample88	0	1	0	0	NA	Mediterranean	NA
Sample89	0	1	0	0	NA	Nordic	NA
Sample90	0	1	0	0	NA	Nordic	NA
Sample91	0	1	0	0	NA	Nordic	NA
Sample92	0	1	0	0	NA	Nordic	NA
Sample93	1	0	0	0	NA	Nordic	NA
Sample94	1	0	0	1	NA	Nordic	NA
Sample95	0	0	1	0	NA	Nordic	NA
Sample96	0	0	1	0	NA	Nordic	NA
Sample97	0	1	0	0	NA	Nordic	NA
Sample98	0	1	0	0	NA	Mediterranean	NA
Sample99	0	0	1	0	NA	Nordic	NA
Sample100	0	1	0	0	NA	Mediterranean	NA
Sample101	0	1	0	0	NA	Nordic	NA
Sample102	0	1	0	0	NA	Nordic	NA
Sample103	0	1	0	0	NA	Nordic	NA
Sample104	0	1	0	0	NA	Mediterranean	NA
Sample105	1	0	0	0	NA	Nordic	NA
Sample106	0	1	0	0	NA	Nordic	NA
Sample107	0	1	0	0	NA	Nordic	NA
Sample108	1	0	0	0	NA	Nordic	NA
Sample109	0	1	0	0	NA	Nordic	NA
Sample110	1	0	0	0	NA	Nordic	NA
Sample111	1	0	0	0	NA	Nordic	NA
Sample112	0	1	0	0	NA	Nordic	NA
Sample113	0	1	0	0	NA	Nordic	NA
Sample114	0	1	0	0	NA	Nordic	NA
Sample115	0	1	0	0	NA	Nordic	NA
Sample116	1	0	0	0	NA	Nordic	NA
Sample117	1	0	0	0	NA	Nordic	NA

Sample118	1	0	0	0	NA	Nordic	NA
Sample119	1	0	0	0	NA	Nordic	NA
Sample120	1	0	0	0	NA	Nordic	NA
Sample121	1	0	0	0	NA	Nordic	NA
Sample122	0	1	0	0	NA	Nordic	NA
Sample123	0	1	0	0	NA	Nordic	NA
Sample124	0	1	0	0	NA	Mediterranean	NA
Sample125	1	0	0	0	NA	Mediterranean	NA
Sample126	0	1	0	0	NA	Mediterranean	NA
Sample127	1	0	0	0	NA	Mediterranean	NA
Sample128	0	1	0	0	NA	Mediterranean	NA
Sample129	1	0	0	0	2_short	Nordic	90
Sample130	1	0	0	0	2_short	Nordic	87
Sample131	0	0	1	0	2_short	Mediterranean	87
Sample132	1	0	0	0	1_NO	Mediterranean	87
Sample133	0	1	0	0	NA	Nordic	86
Sample134	1	0	0	0	1_NO	Mediterranean	85
Sample135	1	0	0	0	NA	Nordic	84
Sample136	1	0	0	0	NA	Mediterranean	84
Sample137	0	1	0	0	2_short	Nordic	84
Sample138	1	0	0	0	2_short	Mediterranean	84
Sample139	0	1	0	0	2_short	Mediterranean	84
Sample140	1	0	0	0	3_intermediate	Mediterranean	84
Sample141	1	0	0	0	2_short	Mediterranean	84
Sample142	0	0	1	0	2_short	Nordic	83
Sample143	1	0	0	0	2_short	Mediterranean	83
Sample144	0	1	0	0	2_short	Mediterranean	83
Sample145	1	0	0	0	2_short	Mediterranean	83
Sample146	1	0	0	0	2_short	Mediterranean	83
Sample147	0	1	0	0	NA	Nordic	82
Sample148	1	0	0	0	NA	Mediterranean	81

Sample149	1	0	0	0	NA	Mediterranean	81
Sample150	1	0	0	0	2_short	Nordic	81
Sample151	1	0	0	0	2_short	Mediterranean	81
Sample152	1	0	0	0	NA	Nordic	80
Sample153	0	1	0	0	NA	Mediterranean	80
Sample154	1	0	0	0	NA	Nordic	80
Sample155	0	1	0	0	NA	Mediterranean	80
Sample156	0	1	0	0	NA	Nordic	80
Sample157	1	0	0	0	2_short	Nordic	80
Sample158	0	1	0	0	2_short	Nordic	80
Sample159	0	1	0	0	1_NO	Mediterranean	80
Sample160	0	1	0	0	2_short	Mediterranean	80
Sample161	1	0	0	0	2_short	Mediterranean	80
Sample162	1	0	0	0	1_NO	Mediterranean	80
Sample163	1	0	0	0	3_intermediate	Mediterranean	80
Sample164	1	0	0	0	3_intermediate	Mediterranean	80
Sample165	1	0	0	0	NA	Mediterranean	79
Sample166	1	0	0	0	NA	Mediterranean	79
Sample167	1	0	0	0	NA	Nordic	79
Sample168	1	0	0	0	NA	Mediterranean	79
Sample169	0	1	0	0	NA	Mediterranean	79
Sample170	1	0	0	0	3_intermediate	Nordic	79
Sample171	1	0	0	0	2_short	Nordic	79
Sample172	0	0	1	0	3_intermediate	Nordic	79
Sample173	0	1	0	0	2_short	Mediterranean	79
Sample174	0	1	0	0	1_NO	Mediterranean	79
Sample175	1	0	0	0	2_short	Mediterranean	79
Sample176	0	1	0	0	1_NO	Mediterranean	79
Sample177	0	1	0	0	NA	Nordic	78
Sample178	0	1	0	0	NA	Mediterranean	78
Sample179	0	1	0	0	NA	Nordic	78

Sample180	0	1	0	0	NA	Nordic	78
Sample181	1	0	0	0	NA	Nordic	78
Sample182	0	0	1	0	NA	Nordic	78
Sample183	1	0	0	0	NA	Mediterranean	78
Sample184	0	1	0	0	3_intermediate	Nordic	78
Sample185	0	0	1	0	2_short	Nordic	78
Sample186	0	1	0	0	2_short	Nordic	78
Sample187	1	0	0	1	4_long	Nordic	78
Sample188	1	0	0	0	2_short	Mediterranean	78
Sample189	0	1	0	0	2_short	Mediterranean	78
Sample190	1	0	0	0	1_NO	Mediterranean	78
Sample191	1	0	0	0	1_NO	Mediterranean	78
Sample192	1	0	0	0	NA	Nordic	77
Sample193	0	1	0	0	NA	Mediterranean	77
Sample194	0	1	0	0	NA	Nordic	77
Sample195	0	0	1	0	NA	Nordic	77
Sample196	1	0	0	0	NA	Nordic	77
Sample197	0	0	1	0	3_intermediate	Nordic	77
Sample198	0	1	0	0	3_intermediate	Nordic	77
Sample199	1	0	0	0	2_short	Mediterranean	77
Sample200	1	0	0	0	3_intermediate	Mediterranean	77
Sample201	1	0	0	0	NA	Mediterranean	76
Sample202	0	1	0	0	NA	Mediterranean	76
Sample203	1	0	0	0	NA	Mediterranean	76
Sample204	0	0	1	0	NA	Nordic	76
Sample205	0	1	0	0	NA	Nordic	76
Sample206	0	0	1	0	NA	Nordic	76
Sample207	0	0	1	0	NA	Nordic	76
Sample208	1	0	0	0	NA	Nordic	76
Sample209	1	0	0	0	NA	Nordic	76
Sample210	0	1	0	0	NA	Nordic	76

Sample211	0	1	0	0	NA	Nordic	76
Sample212	1	0	0	0	NA	Nordic	76
Sample213	1	0	0	0	NA	Mediterranean	76
Sample214	0	1	0	0	NA	Mediterranean	76
Sample215	1	0	0	0	NA	Mediterranean	76
Sample216	1	0	0	0	NA	Mediterranean	76
Sample217	0	1	0	0	3_intermediate	Nordic	76
Sample218	0	1	0	0	2_short	Nordic	76
Sample219	0	1	0	0	2_short	Mediterranean	76
Sample220	0	1	0	0	2_short	Mediterranean	76
Sample221	0	1	0	0	2_short	Mediterranean	76
Sample222	0	1	0	0	3_intermediate	Mediterranean	76
Sample223	1	0	0	0	2_short	Mediterranean	76
Sample224	1	0	0	0	2_short	Mediterranean	76
Sample225	0	1	0	0	2_short	Mediterranean	76
Sample226	1	0	0	0	NA	Mediterranean	75
Sample227	0	1	0	0	NA	Nordic	75
Sample228	1	0	0	0	NA	Nordic	75
Sample229	1	0	0	0	NA	Nordic	75
Sample230	1	0	0	0	NA	Mediterranean	75
Sample231	0	1	0	0	NA	Mediterranean	75
Sample232	1	0	0	0	NA	Mediterranean	75
Sample233	0	0	1	0	NA	Mediterranean	75
Sample234	0	1	0	0	2_short	Nordic	75
Sample235	0	0	1	0	1_NO	Nordic	75
Sample236	0	1	0	0	2_short	Nordic	75
Sample237	0	0	1	0	3_intermediate	Nordic	75
Sample238	0	1	0	0	2_short	Nordic	75
Sample239	0	1	0	0	2_short	Nordic	75
Sample240	0	1	0	0	2_short	Nordic	75
Sample241	0	1	0	0	2_short	Mediterranean	75

Sample242	0	1	0	0	3_intermediate	Nordic	75
Sample243	1	0	0	0	2_short	Mediterranean	75
Sample244	0	1	0	0	1_NO	Nordic	75
Sample245	1	0	0	0	3_intermediate	Nordic	75
Sample246	0	1	0	0	3_intermediate	Nordic	75
Sample247	1	0	0	0	2_short	Mediterranean	75
Sample248	1	0	0	0	3_intermediate	Mediterranean	75
Sample249	1	0	0	0	2_short	Mediterranean	75
Sample250	1	0	0	0	3_intermediate	Mediterranean	75
Sample251	0	1	0	0	2_short	Mediterranean	75
Sample252	1	0	0	0	2_short	Mediterranean	75
Sample253	1	0	0	0	NA	Mediterranean	74
Sample254	0	1	0	0	NA	Nordic	74
Sample255	1	0	0	0	NA	Nordic	74
Sample256	0	0	1	0	NA	Nordic	74
Sample257	1	0	0	0	NA	Nordic	74
Sample258	0	0	1	0	NA	Nordic	74
Sample259	1	0	0	0	NA	Nordic	74
Sample260	0	1	0	0	NA	Mediterranean	74
Sample261	0	1	0	0	NA	Mediterranean	74
Sample262	0	1	0	0	NA	Mediterranean	74
Sample263	0	1	0	0	NA	Mediterranean	74
Sample264	1	0	0	0	3_intermediate	Mediterranean	74
Sample265	0	1	0	0	2_short	Nordic	74
Sample266	1	0	0	0	2_short	Mediterranean	74
Sample267	1	0	0	0	3_intermediate	Nordic	74
Sample268	0	1	0	0	3_intermediate	Nordic	74
Sample269	0	0	1	0	1_NO	Mediterranean	74
Sample270	1	0	0	0	2_short	Nordic	74
Sample271	0	1	0	0	2_short	Nordic	74
Sample272	1	0	0	0	1_NO	Mediterranean	74

Sample273	1	0	0	0	2_short	Mediterranean	74
Sample274	1	0	0	0	3_intermediate	Mediterranean	74
Sample275	0	1	0	0	2_short	Mediterranean	74
Sample276	0	1	0	0	3_intermediate	Mediterranean	74
Sample277	1	0	0	0	1_NO	Mediterranean	74
Sample278	1	0	0	0	3_intermediate	Mediterranean	74
Sample279	1	0	0	0	2_short	Mediterranean	74
Sample280	1	0	0	0	2_short	Mediterranean	74
Sample281	1	0	0	0	1_NO	Mediterranean	74
Sample282	1	0	0	0	2_short	Mediterranean	74
Sample283	1	0	0	0	NA	Mediterranean	73
Sample284	1	0	0	0	NA	Mediterranean	73
Sample285	1	0	0	0	NA	Mediterranean	73
Sample286	1	0	0	0	NA	Mediterranean	73
Sample287	1	0	0	0	NA	Nordic	73
Sample288	0	1	0	0	NA	Mediterranean	73
Sample289	1	0	0	0	NA	Mediterranean	73
Sample290	0	1	0	0	NA	Nordic	73
Sample291	1	0	0	0	NA	Nordic	73
Sample292	1	0	0	0	NA	Nordic	73
Sample293	1	0	0	0	NA	Nordic	73
Sample294	1	0	0	0	NA	Mediterranean	73
Sample295	0	0	1	0	NA	Mediterranean	73
Sample296	1	0	0	0	NA	Mediterranean	73
Sample297	1	0	0	0	NA	Mediterranean	73
Sample298	0	1	0	0	NA	Mediterranean	73
Sample299	1	0	0	0	3_intermediate	Nordic	73
Sample300	1	0	0	0	2_short	Nordic	73
Sample301	0	1	0	0	2_short	Nordic	73
Sample302	0	1	0	0	2_short	Nordic	73
Sample303	0	1	0	0	2_short	Nordic	73

Sample304	1	0	0	0	3_intermediate	Nordic	73
Sample305	0	0	1	0	2_short	Mediterranean	73
Sample306	1	0	0	0	1_NO	Nordic	73
Sample307	0	1	0	0	2_short	Nordic	73
Sample308	0	1	0	0	2_short	Nordic	73
Sample309	0	1	0	0	3_intermediate	Nordic	73
Sample310	1	0	0	0	3_intermediate	Nordic	73
Sample311	1	0	0	0	1_NO	Mediterranean	73
Sample312	1	0	0	0	3_intermediate	Mediterranean	73
Sample313	1	0	0	0	2_short	Mediterranean	73
Sample314	1	0	0	0	2_short	Mediterranean	73
Sample315	1	0	0	0	2_short	Mediterranean	73
Sample316	1	0	0	0	2_short	Mediterranean	73
Sample317	0	0	1	0	3_intermediate	Mediterranean	73
Sample318	1	0	0	0	1_NO	Mediterranean	73
Sample319	1	0	0	0	NA	Nordic	72
Sample320	1	0	0	0	NA	Mediterranean	72
Sample321	0	1	0	0	NA	Mediterranean	72
Sample322	1	0	0	0	NA	Mediterranean	72
Sample323	1	0	0	0	NA	Nordic	72
Sample324	1	0	0	1	NA	Nordic	72
Sample325	0	1	0	0	NA	Mediterranean	72
Sample326	0	1	0	0	NA	Nordic	72
Sample327	0	1	0	0	NA	Nordic	72
Sample328	1	0	0	0	NA	Mediterranean	72
Sample329	0	1	0	0	NA	Nordic	72
Sample330	0	1	0	0	NA	Mediterranean	72
Sample331	1	0	0	0	NA	Mediterranean	72
Sample332	0	0	1	0	2_short	Nordic	72
Sample333	0	1	0	0	1_NO	Nordic	72
Sample334	0	1	0	0	2_short	Nordic	72

Sample335	1	0	0	0	2_short	Nordic	72
Sample336	1	0	0	0	3_intermediate	Nordic	72
Sample337	0	1	0	0	2_short	Nordic	72
Sample338	0	1	0	0	2_short	Nordic	72
Sample339	0	1	0	0	2_short	Mediterranean	72
Sample340	1	0	0	0	2_short	Mediterranean	72
Sample341	1	0	0	0	2_short	Mediterranean	72
Sample342	1	0	0	0	2_short	Mediterranean	72
Sample343	1	0	0	0	2_short	Mediterranean	72
Sample344	1	0	0	0	2_short	Mediterranean	72
Sample345	1	0	0	0	2_short	Mediterranean	72
Sample346	0	1	0	0	2_short	Mediterranean	72
Sample347	1	0	0	0	1_NO	Mediterranean	72
Sample348	1	0	0	0	1_NO	Mediterranean	72
Sample349	0	1	0	0	NA	Mediterranean	71
Sample350	1	0	0	0	NA	Mediterranean	71
Sample351	0	1	0	0	NA	Nordic	71
Sample352	1	0	0	0	NA	Mediterranean	71
Sample353	0	1	0	0	NA	Nordic	71
Sample354	1	0	0	0	NA	Nordic	71
Sample355	0	0	1	0	NA	Nordic	71
Sample356	0	1	0	0	NA	Nordic	71
Sample357	0	1	0	0	NA	Nordic	71
Sample358	1	0	0	0	NA	Mediterranean	71
Sample359	1	0	0	0	NA	Mediterranean	71
Sample360	1	0	0	0	2_short	Nordic	71
Sample361	0	1	0	0	3_intermediate	Mediterranean	71
Sample362	0	1	0	0	2_short	Nordic	71
Sample363	0	1	0	0	2_short	Nordic	71
Sample364	1	0	0	0	1_NO	Nordic	71
Sample365	1	0	0	0	2_short	Nordic	71

Sample366	0	1	0	0	2_short	Nordic	71
Sample367	1	0	0	1	4_long	Nordic	71
Sample368	1	0	0	1	4_long	Nordic	71
Sample369	1	0	0	0	3_intermediate	Nordic	71
Sample370	0	1	0	0	3_intermediate	Nordic	71
Sample371	1	0	0	0	2_short	Nordic	71
Sample372	1	0	0	0	3_intermediate	Nordic	71
Sample373	1	0	0	0	2_short	Mediterranean	71
Sample374	0	1	0	0	2_short	Nordic	71
Sample375	0	1	0	0	2_short	Nordic	71
Sample376	0	1	0	0	3_intermediate	Mediterranean	71
Sample377	1	0	0	0	1_NO	Mediterranean	71
Sample378	1	0	0	0	3_intermediate	Mediterranean	71
Sample379	1	0	0	0	1_NO	Mediterranean	71
Sample380	1	0	0	0	2_short	Mediterranean	71
Sample381	0	1	0	0	2_short	Mediterranean	71
Sample382	0	1	0	0	NA	Mediterranean	70
Sample383	1	0	0	0	NA	Mediterranean	70
Sample384	0	1	0	0	NA	Mediterranean	70
Sample385	0	1	0	0	NA	Nordic	70
Sample386	1	0	0	0	NA	Nordic	70
Sample387	0	1	0	0	NA	Mediterranean	70
Sample388	1	0	0	0	NA	Mediterranean	70
Sample389	1	0	0	0	NA	Mediterranean	70
Sample390	0	0	1	0	3_intermediate	Nordic	70
Sample391	1	0	0	0	3_intermediate	Nordic	70
Sample392	1	0	0	0	3_intermediate	Nordic	70
Sample393	0	1	0	0	3_intermediate	Nordic	70
Sample394	0	0	1	1	4_long	Nordic	70
Sample395	1	0	0	0	1_NO	Nordic	70
Sample396	1	0	0	0	3_intermediate	Nordic	70

Sample397	1	0	0	0	2_short	Nordic	70
Sample398	0	1	0	0	2_short	Mediterranean	70
Sample399	0	1	0	0	1_NO	Mediterranean	70
Sample400	0	1	0	0	2_short	Mediterranean	70
Sample401	1	0	0	0	3_intermediate	Mediterranean	70
Sample402	1	0	0	0	2_short	Nordic	70
Sample403	0	1	0	0	1_NO	Nordic	70
Sample404	0	1	0	0	3_intermediate	Nordic	70
Sample405	1	0	0	0	2_short	Nordic	70
Sample406	1	0	0	0	2_short	Nordic	70
Sample407	1	0	0	0	3_intermediate	Nordic	70
Sample408	1	0	0	0	2_short	Nordic	70
Sample409	0	1	0	0	3_intermediate	Mediterranean	70
Sample410	1	0	0	0	3_intermediate	Mediterranean	70
Sample411	0	1	0	0	1_NO	Mediterranean	70
Sample412	1	0	0	0	2_short	Mediterranean	70
Sample413	0	1	0	0	2_short	Mediterranean	70
Sample414	0	1	0	0	2_short	Mediterranean	70
Sample415	1	0	0	0	2_short	Mediterranean	70
Sample416	1	0	0	0	2_short	Mediterranean	70
Sample417	0	1	0	0	2_short	Mediterranean	70
Sample418	0	1	0	0	NA	Nordic	69
Sample419	1	0	0	0	NA	Nordic	69
Sample420	1	0	0	0	NA	Nordic	69
Sample421	1	0	0	0	NA	Mediterranean	69
Sample422	1	0	0	0	NA	Mediterranean	69
Sample423	1	0	0	0	NA	Nordic	69
Sample424	1	0	0	0	NA	Nordic	69
Sample425	0	1	0	0	NA	Nordic	69
Sample426	0	1	0	0	NA	Nordic	69
Sample427	0	1	0	0	NA	Nordic	69

Sample428	0	1	0	0	NA	Nordic	69
Sample429	0	0	1	0	NA	Nordic	69
Sample430	0	1	0	0	NA	Mediterranean	69
Sample431	1	0	0	0	NA	Nordic	69
Sample432	1	0	0	0	NA	Nordic	69
Sample433	1	0	0	0	NA	Mediterranean	69
Sample434	1	0	0	0	NA	Mediterranean	69
Sample435	0	0	1	0	NA	Mediterranean	69
Sample436	1	0	0	0	NA	Mediterranean	69
Sample437	1	0	0	0	NA	Mediterranean	69
Sample438	0	1	0	0	NA	Mediterranean	69
Sample439	1	0	0	0	NA	Mediterranean	69
Sample440	0	0	1	0	2_short	Nordic	69
Sample441	1	0	0	0	2_short	Nordic	69
Sample442	1	0	0	0	2_short	Nordic	69
Sample443	0	1	0	0	1_NO	Nordic	69
Sample444	1	0	0	0	1_NO	Nordic	69
Sample445	0	1	0	0	2_short	Nordic	69
Sample446	1	0	0	0	3_intermediate	Mediterranean	69
Sample447	0	1	0	0	2_short	Nordic	69
Sample448	1	0	0	0	2_short	Nordic	69
Sample449	1	0	0	0	2_short	Nordic	69
Sample450	0	1	0	0	1_NO	Mediterranean	69
Sample451	1	0	0	0	2_short	Mediterranean	69
Sample452	1	0	0	0	2_short	Nordic	69
Sample453	1	0	0	0	2_short	Mediterranean	69
Sample454	1	0	0	0	2_short	Mediterranean	69
Sample455	1	0	0	0	2_short	Mediterranean	69
Sample456	1	0	0	0	3_intermediate	Mediterranean	69
Sample457	1	0	0	0	2_short	Mediterranean	69
Sample458	1	0	0	0	2_short	Mediterranean	69

Sample459	1	0	0	0	2_short	Mediterranean	69
Sample460	0	1	0	0	2_short	Mediterranean	69
Sample461	0	1	0	0	1_NO	Mediterranean	69
Sample462	1	0	0	0	2_short	Mediterranean	69
Sample463	1	0	0	0	2_short	Mediterranean	69
Sample464	1	0	0	0	NA	Mediterranean	68
Sample465	0	0	1	0	NA	Nordic	68
Sample466	0	1	0	0	NA	Mediterranean	68
Sample467	1	0	0	0	NA	Mediterranean	68
Sample468	1	0	0	0	NA	Mediterranean	68
Sample469	0	1	0	0	NA	Nordic	68
Sample470	1	0	0	0	NA	Mediterranean	68
Sample471	1	0	0	0	NA	Nordic	68
Sample472	1	0	0	0	NA	Nordic	68
Sample473	0	1	0	0	NA	Nordic	68
Sample474	0	1	0	0	NA	Nordic	68
Sample475	1	0	0	0	NA	Nordic	68
Sample476	1	0	0	0	NA	Nordic	68
Sample477	1	0	0	0	NA	Nordic	68
Sample478	1	0	0	0	NA	Nordic	68
Sample479	0	1	0	0	NA	Nordic	68
Sample480	1	0	0	0	NA	Nordic	68
Sample481	0	1	0	0	3_intermediate	Nordic	68
Sample482	0	0	1	0	2_short	Nordic	68
Sample483	0	1	0	0	3_intermediate	Nordic	68
Sample484	0	1	0	0	2_short	Nordic	68
Sample485	1	0	0	0	2_short	Nordic	68
Sample486	0	1	0	0	3_intermediate	Nordic	68
Sample487	1	0	0	0	2_short	Nordic	68
Sample488	0	1	0	0	1_NO	Nordic	68
Sample489	1	0	0	0	1_NO	Nordic	68

Sample490	1	0	0	0	3_intermediate	Nordic	68
Sample491	1	0	0	0	3_intermediate	Mediterranean	68
Sample492	1	0	0	0	1_NO	Nordic	68
Sample493	1	0	0	0	1_NO	Nordic	68
Sample494	1	0	0	0	2_short	Nordic	68
Sample495	1	0	0	0	3_intermediate	Nordic	68
Sample496	0	0	1	1	4_long	Nordic	68
Sample497	0	1	0	0	2_short	Nordic	68
Sample498	0	0	1	0	1_NO	Nordic	68
Sample499	0	1	0	0	1_NO	Mediterranean	68
Sample500	1	0	0	0	3_intermediate	Nordic	68
Sample501	1	0	0	0	1_NO	Nordic	68
Sample502	1	0	0	0	1_NO	Mediterranean	68
Sample503	1	0	0	0	3_intermediate	Mediterranean	68
Sample504	1	0	0	0	2_short	Mediterranean	68
Sample505	1	0	0	0	2_short	Mediterranean	68
Sample506	1	0	0	0	1_NO	Mediterranean	68
Sample507	0	0	1	0	2_short	Mediterranean	68
Sample508	1	0	0	0	2_short	Mediterranean	68
Sample509	1	0	0	0	1_NO	Mediterranean	68
Sample510	0	1	0	0	NA	Nordic	67
Sample511	0	1	0	0	NA	Mediterranean	67
Sample512	0	0	1	0	NA	Nordic	67
Sample513	0	1	0	0	NA	Nordic	67
Sample514	0	0	1	1	NA	Nordic	67
Sample515	1	0	0	0	NA	Nordic	67
Sample516	1	0	0	0	NA	Nordic	67
Sample517	0	1	0	0	NA	Nordic	67
Sample518	0	1	0	0	NA	Nordic	67
Sample519	1	0	0	0	NA	Nordic	67
Sample520	0	1	0	0	NA	Nordic	67

Sample521	1	0	0	0	NA	Mediterranean	67
Sample522	1	0	0	0	NA	Mediterranean	67
Sample523	1	0	0	0	NA	Mediterranean	67
Sample524	0	1	0	0	NA	Mediterranean	67
Sample525	1	0	0	0	NA	Mediterranean	67
Sample526	0	1	0	0	NA	Mediterranean	67
Sample527	0	1	0	0	NA	Nordic	67
Sample528	1	0	0	0	NA	Mediterranean	67
Sample529	1	0	0	0	3_intermediate	Nordic	67
Sample530	1	0	0	0	2_short	Nordic	67
Sample531	1	0	0	0	3_intermediate	Nordic	67
Sample532	0	1	0	0	3_intermediate	Nordic	67
Sample533	0	0	1	1	4_long	Nordic	67
Sample534	1	0	0	1	4_long	Nordic	67
Sample535	0	1	0	0	1_NO	Mediterranean	67
Sample536	1	0	0	0	2_short	Mediterranean	67
Sample537	0	1	0	0	3_intermediate	Mediterranean	67
Sample538	0	1	0	0	2_short	Mediterranean	67
Sample539	0	0	1	0	2_short	Nordic	67
Sample540	1	0	0	0	3_intermediate	Nordic	67
Sample541	0	1	0	0	3_intermediate	Nordic	67
Sample542	0	1	0	1	4_long	Nordic	67
Sample543	0	1	0	0	2_short	Nordic	67
Sample544	1	0	0	0	2_short	Nordic	67
Sample545	1	0	0	0	3_intermediate	Nordic	67
Sample546	1	0	0	0	1_NO	Mediterranean	67
Sample547	1	0	0	0	3_intermediate	Mediterranean	67
Sample548	0	1	0	0	2_short	Nordic	67
Sample549	1	0	0	0	2_short	Mediterranean	67
Sample550	0	1	0	0	1_NO	Mediterranean	67
Sample551	0	1	0	0	2_short	Mediterranean	67

Sample552	0	1	0	0	2_short	Mediterranean	67
Sample553	0	1	0	0	3_intermediate	Mediterranean	67
Sample554	0	1	0	0	3_intermediate	Mediterranean	67
Sample555	0	1	0	0	2_short	Mediterranean	67
Sample556	0	1	0	0	2_short	Mediterranean	67
Sample557	1	0	0	0	NA	Nordic	66
Sample558	1	0	0	0	NA	Mediterranean	66
Sample559	1	0	0	0	NA	Nordic	66
Sample560	1	0	0	0	NA	Mediterranean	66
Sample561	0	1	0	0	NA	Nordic	66
Sample562	1	0	0	0	NA	Mediterranean	66
Sample563	1	0	0	0	NA	Nordic	66
Sample564	0	1	0	0	NA	Nordic	66
Sample565	1	0	0	0	NA	Nordic	66
Sample566	0	1	0	0	NA	Nordic	66
Sample567	0	1	0	0	NA	Mediterranean	66
Sample568	1	0	0	0	NA	Mediterranean	66
Sample569	0	1	0	0	NA	Mediterranean	66
Sample570	1	0	0	0	NA	Mediterranean	66
Sample571	1	0	0	0	NA	Nordic	66
Sample572	1	0	0	0	3_intermediate	Nordic	66
Sample573	0	1	0	0	2_short	Nordic	66
Sample574	0	1	0	0	2_short	Nordic	66
Sample575	0	1	0	0	1_NO	Nordic	66
Sample576	0	1	0	0	2_short	Nordic	66
Sample577	1	0	0	0	1_NO	Nordic	66
Sample578	0	1	0	0	1_NO	Nordic	66
Sample579	0	1	0	0	2_short	Mediterranean	66
Sample580	1	0	0	0	3_intermediate	Nordic	66
Sample581	0	1	0	0	1_NO	Nordic	66
Sample582	1	0	0	0	2_short	Nordic	66

Sample583	1	0	0	0	2_short	Nordic	66
Sample584	1	0	0	0	3_intermediate	Nordic	66
Sample585	1	0	0	0	1_NO	Mediterranean	66
Sample586	0	1	0	0	2_short	Mediterranean	66
Sample587	1	0	0	0	3_intermediate	Nordic	66
Sample588	1	0	0	0	2_short	Nordic	66
Sample589	1	0	0	0	2_short	Nordic	66
Sample590	0	1	0	0	3_intermediate	Nordic	66
Sample591	1	0	0	0	2_short	Nordic	66
Sample592	1	0	0	0	2_short	Nordic	66
Sample593	1	0	0	0	3_intermediate	Nordic	66
Sample594	1	0	0	0	2_short	Nordic	66
Sample595	1	0	0	0	2_short	Nordic	66
Sample596	0	1	0	0	2_short	Mediterranean	66
Sample597	1	0	0	0	2_short	Mediterranean	66
Sample598	0	1	0	0	1_NO	Mediterranean	66
Sample599	1	0	0	0	1_NO	Mediterranean	66
Sample600	0	1	0	0	3_intermediate	Mediterranean	66
Sample601	1	0	0	0	1_NO	Mediterranean	66
Sample602	0	1	0	0	2_short	Mediterranean	66
Sample603	1	0	0	0	2_short	Mediterranean	66
Sample604	0	0	1	0	1_NO	Mediterranean	66
Sample605	0	1	0	0	1_NO	Mediterranean	66
Sample606	0	1	0	0	NA	Mediterranean	65
Sample607	1	0	0	0	NA	Mediterranean	65
Sample608	0	1	0	0	NA	Mediterranean	65
Sample609	0	1	0	0	NA	Nordic	65
Sample610	0	1	0	0	NA	Nordic	65
Sample611	0	1	0	0	NA	Mediterranean	65
Sample612	0	1	0	0	NA	Nordic	65
Sample613	1	0	0	0	NA	Mediterranean	65

Sample614	0	1	0	0	NA	Nordic	65
Sample615	1	0	0	0	NA	Nordic	65
Sample616	0	1	0	0	NA	Nordic	65
Sample617	1	0	0	0	NA	Nordic	65
Sample618	0	1	0	0	NA	Mediterranean	65
Sample619	1	0	0	0	NA	Nordic	65
Sample620	1	0	0	0	NA	Nordic	65
Sample621	1	0	0	0	NA	Nordic	65
Sample622	0	1	0	0	NA	Nordic	65
Sample623	0	1	0	0	NA	Nordic	65
Sample624	0	1	0	0	NA	Nordic	65
Sample625	0	1	0	0	NA	Nordic	65
Sample626	1	0	0	0	NA	Nordic	65
Sample627	1	0	0	0	NA	Nordic	65
Sample628	1	0	0	0	NA	Nordic	65
Sample629	1	0	0	0	NA	Mediterranean	65
Sample630	0	1	0	0	NA	Mediterranean	65
Sample631	0	1	0	0	NA	Mediterranean	65
Sample632	0	1	0	0	2_short	Nordic	65
Sample633	0	1	0	0	2_short	Nordic	65
Sample634	1	0	0	0	3_intermediate	Mediterranean	65
Sample635	1	0	0	0	3_intermediate	Nordic	65
Sample636	0	1	0	0	3_intermediate	Nordic	65
Sample637	1	0	0	0	2_short	Nordic	65
Sample638	1	0	0	0	2_short	Nordic	65
Sample639	1	0	0	0	2_short	Nordic	65
Sample640	0	1	0	0	1_NO	Nordic	65
Sample641	1	0	0	0	1_NO	Nordic	65
Sample642	0	1	0	0	2_short	Nordic	65
Sample643	0	1	0	0	3_intermediate	Nordic	65
Sample644	0	1	0	0	1_NO	Nordic	65

Sample645	1	0	0	0	3_intermediate	Mediterranean	65
Sample646	1	0	0	0	3_intermediate	Nordic	65
Sample647	1	0	0	0	2_short	Nordic	65
Sample648	0	0	1	0	2_short	Nordic	65
Sample649	1	0	0	0	2_short	Nordic	65
Sample650	0	1	0	0	2_short	Mediterranean	65
Sample651	1	0	0	0	2_short	Nordic	65
Sample652	0	1	0	1	4_long	Nordic	65
Sample653	1	0	0	1	4_long	Nordic	65
Sample654	1	0	0	0	3_intermediate	Nordic	65
Sample655	0	1	0	0	2_short	Nordic	65
Sample656	0	1	0	0	3_intermediate	Nordic	65
Sample657	0	0	1	0	2_short	Nordic	65
Sample658	0	1	0	0	2_short	Mediterranean	65
Sample659	0	1	0	0	2_short	Nordic	65
Sample660	1	0	0	0	2_short	Nordic	65
Sample661	0	1	0	0	2_short	Mediterranean	65
Sample662	0	0	1	0	1_NO	Mediterranean	65
Sample663	1	0	0	0	2_short	Mediterranean	65
Sample664	1	0	0	0	2_short	Mediterranean	65
Sample665	1	0	0	0	2_short	Mediterranean	65
Sample666	0	1	0	0	2_short	Mediterranean	65
Sample667	0	1	0	0	2_short	Mediterranean	65
Sample668	0	1	0	0	2_short	Mediterranean	65
Sample669	0	1	0	0	3_intermediate	Mediterranean	65
Sample670	1	0	0	0	2_short	Mediterranean	65
Sample671	1	0	0	0	2_short	Mediterranean	65
Sample672	1	0	0	0	1_NO	Mediterranean	65
Sample673	0	1	0	0	3_intermediate	Mediterranean	65
Sample674	1	0	0	0	1_NO	Mediterranean	65
Sample675	1	0	0	0	1_NO	Mediterranean	65

Sample676	1	0	0	0	3_intermediate	Mediterranean	65
Sample677	1	0	0	0	2_short	Mediterranean	65
Sample678	1	0	0	0	NA	Nordic	64
Sample679	0	1	0	0	NA	Mediterranean	64
Sample680	1	0	0	0	NA	Nordic	64
Sample681	0	1	0	0	NA	Nordic	64
Sample682	1	0	0	0	NA	Nordic	64
Sample683	1	0	0	0	NA	Nordic	64
Sample684	1	0	0	0	NA	Mediterranean	64
Sample685	1	0	0	0	NA	Nordic	64
Sample686	1	0	0	0	NA	Nordic	64
Sample687	0	1	0	0	NA	Nordic	64
Sample688	0	1	0	0	NA	Nordic	64
Sample689	1	0	0	0	NA	Nordic	64
Sample690	1	0	0	0	NA	Mediterranean	64
Sample691	1	0	0	0	NA	Mediterranean	64
Sample692	1	0	0	0	NA	Mediterranean	64
Sample693	1	0	0	0	NA	Mediterranean	64
Sample694	0	1	0	0	NA	Mediterranean	64
Sample695	0	1	0	0	NA	Mediterranean	64
Sample696	1	0	0	0	NA	Mediterranean	64
Sample697	0	1	0	0	2_short	Mediterranean	64
Sample698	0	0	1	0	2_short	Nordic	64
Sample699	1	0	0	0	3_intermediate	Nordic	64
Sample700	0	1	0	0	2_short	Nordic	64
Sample701	0	1	0	0	2_short	Nordic	64
Sample702	0	1	0	0	2_short	Nordic	64
Sample703	1	0	0	0	1_NO	Nordic	64
Sample704	1	0	0	0	2_short	Nordic	64
Sample705	1	0	0	1	4_long	Mediterranean	64
Sample706	0	1	0	0	2_short	Nordic	64

Sample707	1	0	0	0	3_intermediate	Nordic	64
Sample708	0	1	0	0	2_short	Nordic	64
Sample709	0	1	0	0	2_short	Nordic	64
Sample710	0	1	0	0	3_intermediate	Nordic	64
Sample711	1	0	0	0	2_short	Nordic	64
Sample712	1	0	0	0	1_NO	Mediterranean	64
Sample713	1	0	0	0	2_short	Nordic	64
Sample714	0	1	0	0	1_NO	Nordic	64
Sample715	1	0	0	0	2_short	Nordic	64
Sample716	1	0	0	0	3_intermediate	Nordic	64
Sample717	1	0	0	0	3_intermediate	Nordic	64
Sample718	1	0	0	0	2_short	Nordic	64
Sample719	0	0	1	0	2_short	Nordic	64
Sample720	1	0	0	0	3_intermediate	Nordic	64
Sample721	1	0	0	0	2_short	Nordic	64
Sample722	0	1	0	0	1_NO	Mediterranean	64
Sample723	1	0	0	0	2_short	Mediterranean	64
Sample724	0	1	0	0	2_short	Mediterranean	64
Sample725	1	0	0	0	3_intermediate	Mediterranean	64
Sample726	0	0	1	0	2_short	Mediterranean	64
Sample727	1	0	0	0	3_intermediate	Mediterranean	64
Sample728	1	0	0	0	2_short	Mediterranean	64
Sample729	0	1	0	0	3_intermediate	Mediterranean	64
Sample730	0	1	0	0	NA	Nordic	63
Sample731	1	0	0	0	NA	Nordic	63
Sample732	0	0	1	0	NA	Mediterranean	63
Sample733	1	0	0	0	NA	Nordic	63
Sample734	0	1	0	0	NA	Nordic	63
Sample735	1	0	0	0	NA	Mediterranean	63
Sample736	1	0	0	0	NA	Mediterranean	63
Sample737	0	0	1	0	NA	Mediterranean	63

Sample738	1	0	0	0	NA	Nordic	63
Sample739	1	0	0	0	NA	Mediterranean	63
Sample740	0	1	0	0	NA	Nordic	63
Sample741	1	0	0	0	NA	Nordic	63
Sample742	0	0	1	0	NA	Nordic	63
Sample743	1	0	0	0	NA	Nordic	63
Sample744	1	0	0	0	NA	Nordic	63
Sample745	1	0	0	0	NA	Nordic	63
Sample746	1	0	0	0	NA	Nordic	63
Sample747	0	1	0	0	NA	Nordic	63
Sample748	0	0	1	0	NA	Nordic	63
Sample749	1	0	0	0	NA	Nordic	63
Sample750	1	0	0	0	NA	Nordic	63
Sample751	1	0	0	0	NA	Nordic	63
Sample752	0	1	0	0	NA	Nordic	63
Sample753	1	0	0	1	NA	Nordic	63
Sample754	1	0	0	0	NA	Mediterranean	63
Sample755	1	0	0	0	NA	Mediterranean	63
Sample756	0	1	0	0	NA	Mediterranean	63
Sample757	0	1	0	0	NA	Mediterranean	63
Sample758	0	0	1	0	NA	Nordic	63
Sample759	1	0	0	0	2_short	Mediterranean	63
Sample760	0	1	0	0	3_intermediate	Nordic	63
Sample761	0	1	0	0	2_short	Nordic	63
Sample762	1	0	0	0	2_short	Nordic	63
Sample763	1	0	0	0	2_short	Nordic	63
Sample764	0	1	0	0	2_short	Nordic	63
Sample765	1	0	0	0	3_intermediate	Nordic	63
Sample766	1	0	0	0	2_short	Nordic	63
Sample767	1	0	0	0	1_NO	Mediterranean	63
Sample768	0	0	1	0	3_intermediate	Nordic	63

Sample769	1	0	0	0	2_short	Nordic	63
Sample770	1	0	0	0	2_short	Mediterranean	63
Sample771	1	0	0	0	3_intermediate	Nordic	63
Sample772	0	1	0	0	2_short	Nordic	63
Sample773	1	0	0	0	3_intermediate	Nordic	63
Sample774	1	0	0	0	3_intermediate	Nordic	63
Sample775	1	0	0	0	3_intermediate	Nordic	63
Sample776	0	1	0	0	2_short	Nordic	63
Sample777	0	0	1	1	4_long	Nordic	63
Sample778	1	0	0	0	2_short	Mediterranean	63
Sample779	1	0	0	0	3_intermediate	Nordic	63
Sample780	1	0	0	0	2_short	Mediterranean	63
Sample781	1	0	0	0	3_intermediate	Mediterranean	63
Sample782	1	0	0	0	2_short	Mediterranean	63
Sample783	0	1	0	0	2_short	Mediterranean	63
Sample784	0	1	0	0	NA	Nordic	62
Sample785	1	0	0	0	NA	Mediterranean	62
Sample786	1	0	0	0	NA	Nordic	62
Sample787	1	0	0	0	NA	Nordic	62
Sample788	0	1	0	0	NA	Nordic	62
Sample789	1	0	0	0	NA	Nordic	62
Sample790	1	0	0	0	NA	Nordic	62
Sample791	0	1	0	0	NA	Nordic	62
Sample792	0	1	0	0	NA	Nordic	62
Sample793	1	0	0	0	NA	Nordic	62
Sample794	1	0	0	0	NA	Mediterranean	62
Sample795	1	0	0	0	NA	Mediterranean	62
Sample796	1	0	0	0	NA	Mediterranean	62
Sample797	0	1	0	0	1_NO	Mediterranean	62
Sample798	0	1	0	0	3_intermediate	Nordic	62
Sample799	0	0	1	0	3_intermediate	Nordic	62

Sample800	1	0	0	0	2_short	Nordic	62
Sample801	1	0	0	0	3_intermediate	Nordic	62
Sample802	1	0	0	0	1_NO	Nordic	62
Sample803	1	0	0	0	3_intermediate	Nordic	62
Sample804	1	0	0	0	2_short	Mediterranean	62
Sample805	1	0	0	0	2_short	Mediterranean	62
Sample806	1	0	0	0	2_short	Mediterranean	62
Sample807	0	1	0	0	2_short	Mediterranean	62
Sample808	1	0	0	0	3_intermediate	Nordic	62
Sample809	1	0	0	0	2_short	Nordic	62
Sample810	1	0	0	0	2_short	Nordic	62
Sample811	1	0	0	0	3_intermediate	Nordic	62
Sample812	0	1	0	0	3_intermediate	Nordic	62
Sample813	1	0	0	0	2_short	Nordic	62
Sample814	1	0	0	0	2_short	Nordic	62
Sample815	0	1	0	0	2_short	Nordic	62
Sample816	0	1	0	0	3_intermediate	Nordic	62
Sample817	0	1	0	0	2_short	Nordic	62
Sample818	0	1	0	0	1_NO	Mediterranean	62
Sample819	1	0	0	0	3_intermediate	Mediterranean	62
Sample820	0	0	1	0	1_NO	Mediterranean	62
Sample821	1	0	0	0	2_short	Mediterranean	62
Sample822	0	1	0	0	NA	Nordic	61
Sample823	1	0	0	0	NA	Nordic	61
Sample824	1	0	0	0	NA	Mediterranean	61
Sample825	1	0	0	0	NA	Mediterranean	61
Sample826	1	0	0	0	NA	Mediterranean	61
Sample827	0	0	1	0	NA	Nordic	61
Sample828	1	0	0	0	NA	Nordic	61
Sample829	1	0	0	0	NA	Nordic	61
Sample830	0	0	1	0	NA	Nordic	61

Sample831	0	1	0	0	NA	Nordic	61
Sample832	0	1	0	0	NA	Nordic	61
Sample833	0	1	0	0	NA	Nordic	61
Sample834	1	0	0	0	NA	Nordic	61
Sample835	1	0	0	0	NA	Nordic	61
Sample836	1	0	0	0	NA	Mediterranean	61
Sample837	1	0	0	1	NA	Mediterranean	61
Sample838	0	1	0	0	NA	Mediterranean	61
Sample839	0	1	0	0	NA	Mediterranean	61
Sample840	1	0	0	0	NA	Mediterranean	61
Sample841	0	1	0	0	NA	Mediterranean	61
Sample842	1	0	0	0	3_intermediate	Nordic	61
Sample843	1	0	0	0	2_short	Nordic	61
Sample844	0	1	0	0	1_NO	Nordic	61
Sample845	1	0	0	0	3_intermediate	Nordic	61
Sample846	1	0	0	0	1_NO	Nordic	61
Sample847	0	1	0	0	2_short	Nordic	61
Sample848	0	1	0	0	2_short	Nordic	61
Sample849	0	1	0	0	2_short	Nordic	61
Sample850	0	1	0	0	2_short	Nordic	61
Sample851	1	0	0	1	4_long	Nordic	61
Sample852	1	0	0	0	2_short	Nordic	61
Sample853	1	0	0	0	2_short	Nordic	61
Sample854	0	1	0	0	1_NO	Nordic	61
Sample855	1	0	0	0	3_intermediate	Nordic	61
Sample856	1	0	0	0	3_intermediate	Nordic	61
Sample857	1	0	0	0	3_intermediate	Nordic	61
Sample858	1	0	0	0	2_short	Nordic	61
Sample859	0	1	0	0	2_short	Nordic	61
Sample860	1	0	0	0	1_NO	Nordic	61
Sample861	1	0	0	0	2_short	Nordic	61

Sample862	0	1	0	0	2_short	Nordic	61
Sample863	0	1	0	0	2_short	Nordic	61
Sample864	0	1	0	0	2_short	Nordic	61
Sample865	1	0	0	0	2_short	Nordic	61
Sample866	0	0	1	1	4_long	Nordic	61
Sample867	1	0	0	0	2_short	Nordic	61
Sample868	0	1	0	0	2_short	Nordic	61
Sample869	1	0	0	0	3_intermediate	Nordic	61
Sample870	0	1	0	0	1_NO	Nordic	61
Sample871	0	1	0	0	3_intermediate	Nordic	61
Sample872	1	0	0	0	2_short	Nordic	61
Sample873	1	0	0	0	3_intermediate	Nordic	61
Sample874	0	1	0	0	2_short	Mediterranean	61
Sample875	1	0	0	0	2_short	Mediterranean	61
Sample876	1	0	0	0	3_intermediate	Nordic	61
Sample877	0	1	0	0	2_short	Nordic	61
Sample878	0	1	0	0	3_intermediate	Mediterranean	61
Sample879	0	1	0	0	3_intermediate	Mediterranean	61
Sample880	1	0	0	0	NA	Mediterranean	60
Sample881	1	0	0	0	NA	Mediterranean	60
Sample882	1	0	0	0	NA	Nordic	60
Sample883	1	0	0	0	NA	Mediterranean	60
Sample884	1	0	0	0	NA	Nordic	60
Sample885	1	0	0	0	NA	Nordic	60
Sample886	0	1	0	0	NA	Nordic	60
Sample887	0	1	0	0	NA	Nordic	60
Sample888	1	0	0	0	NA	Nordic	60
Sample889	1	0	0	0	NA	Nordic	60
Sample890	0	1	0	0	NA	Nordic	60
Sample891	0	1	0	0	NA	Nordic	60
Sample892	1	0	0	0	NA	Nordic	60

Sample893	0	0	1	0	NA	Nordic	60
Sample894	1	0	0	0	NA	Nordic	60
Sample895	0	1	0	0	NA	Nordic	60
Sample896	0	1	0	0	NA	Mediterranean	60
Sample897	0	1	0	0	NA	Nordic	60
Sample898	1	0	0	0	NA	Nordic	60
Sample899	1	0	0	0	NA	Nordic	60
Sample900	1	0	0	0	NA	Mediterranean	60
Sample901	0	1	0	0	NA	Mediterranean	60
Sample902	0	1	0	0	NA	Nordic	60
Sample903	1	0	0	0	2_short	Nordic	60
Sample904	1	0	0	0	2_short	Nordic	60
Sample905	1	0	0	0	3_intermediate	Nordic	60
Sample906	0	1	0	0	3_intermediate	Nordic	60
Sample907	1	0	0	0	3_intermediate	Nordic	60
Sample908	1	0	0	0	2_short	Nordic	60
Sample909	0	1	0	0	2_short	Nordic	60
Sample910	1	0	0	0	1_NO	Nordic	60
Sample911	0	1	0	0	2_short	Nordic	60
Sample912	0	1	0	0	1_NO	Nordic	60
Sample913	0	1	0	0	3_intermediate	Nordic	60
Sample914	1	0	0	1	4_long	Nordic	60
Sample915	1	0	0	0	2_short	Nordic	60
Sample916	1	0	0	0	2_short	Nordic	60
Sample917	1	0	0	0	3_intermediate	Nordic	60
Sample918	0	0	1	0	2_short	Mediterranean	60
Sample919	1	0	0	0	2_short	Mediterranean	60
Sample920	0	1	0	0	3_intermediate	Mediterranean	60
Sample921	0	1	0	0	1_NO	Mediterranean	60
Sample922	0	1	0	0	3_intermediate	Nordic	60
Sample923	1	0	0	0	2_short	Nordic	60

Sample924	0	1	0	0	2_short	Nordic	60
Sample925	1	0	0	0	2_short	Nordic	60
Sample926	1	0	0	0	1_NO	Nordic	60
Sample927	1	0	0	0	2_short	Nordic	60
Sample928	0	1	0	0	2_short	Nordic	60
Sample929	0	1	0	0	3_intermediate	Nordic	60
Sample930	0	1	0	0	1_NO	Mediterranean	60
Sample931	0	1	0	0	2_short	Mediterranean	60
Sample932	1	0	0	0	2_short	Mediterranean	60
Sample933	1	0	0	0	2_short	Mediterranean	60
Sample934	1	0	0	0	3_intermediate	Nordic	60
Sample935	1	0	0	0	2_short	Mediterranean	60
Sample936	1	0	0	1	4_long	Mediterranean	60
Sample937	1	0	0	0	2_short	Mediterranean	60
Sample938	1	0	0	0	2_short	Mediterranean	60
Sample939	1	0	0	0	2_short	Mediterranean	60
Sample940	1	0	0	0	2_short	Mediterranean	60
Sample941	0	0	1	0	NA	Nordic	59
Sample942	1	0	0	0	NA	Mediterranean	59
Sample943	0	1	0	0	NA	Nordic	59
Sample944	0	1	0	0	NA	Nordic	59
Sample945	0	1	0	0	NA	Nordic	59
Sample946	1	0	0	0	NA	Nordic	59
Sample947	1	0	0	0	NA	Nordic	59
Sample948	1	0	0	0	NA	Nordic	59
Sample949	0	0	1	0	NA	Nordic	59
Sample950	0	0	1	0	NA	Nordic	59
Sample951	0	0	1	0	NA	Nordic	59
Sample952	1	0	0	0	NA	Nordic	59
Sample953	1	0	0	0	NA	Mediterranean	59
Sample954	0	0	1	0	NA	Mediterranean	59

Sample955	1	0	0	0	NA	Mediterranean	59
Sample956	1	0	0	1	NA	Mediterranean	59
Sample957	1	0	0	0	3_intermediate	Nordic	59
Sample958	1	0	0	0	3_intermediate	Mediterranean	59
Sample959	1	0	0	0	2_short	Mediterranean	59
Sample960	1	0	0	0	2_short	Nordic	59
Sample961	1	0	0	1	4_long	Mediterranean	59
Sample962	0	1	0	0	3_intermediate	Nordic	59
Sample963	1	0	0	0	2_short	Nordic	59
Sample964	0	1	0	0	3_intermediate	Nordic	59
Sample965	1	0	0	0	1_NO	Nordic	59
Sample966	0	1	0	0	3_intermediate	Nordic	59
Sample967	0	1	0	0	2_short	Nordic	59
Sample968	0	1	0	0	3_intermediate	Mediterranean	59
Sample969	1	0	0	0	3_intermediate	Nordic	59
Sample970	0	1	0	0	2_short	Nordic	59
Sample971	0	1	0	0	1_NO	Nordic	59
Sample972	1	0	0	0	3_intermediate	Nordic	59
Sample973	1	0	0	0	2_short	Nordic	59
Sample974	0	1	0	0	3_intermediate	Nordic	59
Sample975	1	0	0	0	2_short	Nordic	59
Sample976	0	1	0	0	3_intermediate	Nordic	59
Sample977	1	0	0	0	2_short	Nordic	59
Sample978	1	0	0	0	1_NO	Nordic	59
Sample979	1	0	0	0	2_short	Nordic	59
Sample980	0	1	0	0	2_short	Nordic	59
Sample981	1	0	0	0	2_short	Mediterranean	59
Sample982	1	0	0	0	2_short	Mediterranean	59
Sample983	1	0	0	0	2_short	Nordic	59
Sample984	0	1	0	0	2_short	Mediterranean	59
Sample985	1	0	0	0	2_short	Mediterranean	59

Sample986	1	0	0	0	2_short	Mediterranean	59
Sample987	1	0	0	0	2_short	Mediterranean	59
Sample988	1	0	0	0	3_intermediate	Mediterranean	59
Sample989	1	0	0	0	NA	Mediterranean	58
Sample990	0	1	0	0	NA	Nordic	58
Sample991	1	0	0	0	NA	Nordic	58
Sample992	1	0	0	0	NA	Nordic	58
Sample993	1	0	0	0	NA	Nordic	58
Sample994	0	0	1	0	NA	Nordic	58
Sample995	1	0	0	0	NA	Nordic	58
Sample996	1	0	0	0	NA	Nordic	58
Sample997	1	0	0	0	NA	Nordic	58
Sample998	0	0	1	0	NA	Mediterranean	58
Sample999	1	0	0	0	NA	Nordic	58
Sample1000	1	0	0	0	NA	Nordic	58
Sample1001	1	0	0	0	NA	Nordic	58
Sample1002	1	0	0	0	NA	Nordic	58
Sample1003	1	0	0	0	NA	Nordic	58
Sample1004	1	0	0	0	NA	Mediterranean	58
Sample1005	1	0	0	0	NA	Mediterranean	58
Sample1006	0	1	0	0	NA	Nordic	58
Sample1007	1	0	0	0	NA	Mediterranean	58
Sample1008	1	0	0	0	2_short	Nordic	58
Sample1009	0	1	0	0	2_short	Mediterranean	58
Sample1010	0	1	0	0	3_intermediate	Nordic	58
Sample1011	1	0	0	0	3_intermediate	Nordic	58
Sample1012	0	1	0	0	2_short	Nordic	58
Sample1013	1	0	0	0	2_short	Mediterranean	58
Sample1014	1	0	0	0	2_short	Nordic	58
Sample1015	0	1	0	0	2_short	Nordic	58
Sample1016	0	1	0	0	3_intermediate	Nordic	58

Sample1017	1	0	0	0	3_intermediate	Nordic	58
Sample1018	1	0	0	1	4_long	Nordic	58
Sample1019	1	0	0	0	3_intermediate	Nordic	58
Sample1020	0	1	0	0	2_short	Nordic	58
Sample1021	1	0	0	0	2_short	Nordic	58
Sample1022	0	1	0	0	3_intermediate	Nordic	58
Sample1023	1	0	0	0	2_short	Nordic	58
Sample1024	0	1	0	0	3_intermediate	Nordic	58
Sample1025	1	0	0	0	3_intermediate	Nordic	58
Sample1026	0	1	0	0	2_short	Mediterranean	58
Sample1027	1	0	0	0	2_short	Mediterranean	58
Sample1028	1	0	0	0	3_intermediate	Mediterranean	58
Sample1029	0	1	0	0	3_intermediate	Mediterranean	58
Sample1030	0	1	0	0	2_short	Mediterranean	58
Sample1031	1	0	0	0	2_short	Mediterranean	58
Sample1032	0	1	0	0	2_short	Mediterranean	58
Sample1033	0	1	0	0	NA	Nordic	57
Sample1034	1	0	0	0	NA	Nordic	57
Sample1035	1	0	0	0	NA	Nordic	57
Sample1036	1	0	0	0	NA	Nordic	57
Sample1037	0	1	0	0	NA	Mediterranean	57
Sample1038	1	0	0	0	NA	Nordic	57
Sample1039	1	0	0	0	NA	Nordic	57
Sample1040	1	0	0	0	NA	Nordic	57
Sample1041	1	0	0	1	NA	Nordic	57
Sample1042	0	1	0	0	NA	Nordic	57
Sample1043	1	0	0	1	NA	Mediterranean	57
Sample1044	0	1	0	0	NA	Mediterranean	57
Sample1045	0	1	0	0	NA	Mediterranean	57
Sample1046	1	0	0	0	NA	Mediterranean	57
Sample1047	1	0	0	0	NA	Mediterranean	57

Sample1048	1	0	0	0	NA	Mediterranean	57
Sample1049	1	0	0	0	NA	Mediterranean	57
Sample1050	1	0	0	0	NA	Mediterranean	57
Sample1051	0	1	0	0	2_short	Nordic	57
Sample1052	1	0	0	0	2_short	Nordic	57
Sample1053	1	0	0	0	3_intermediate	Nordic	57
Sample1054	0	0	1	0	2_short	Nordic	57
Sample1055	0	0	1	0	2_short	Nordic	57
Sample1056	1	0	0	0	3_intermediate	Nordic	57
Sample1057	1	0	0	0	2_short	Nordic	57
Sample1058	1	0	0	0	2_short	Nordic	57
Sample1059	1	0	0	0	2_short	Nordic	57
Sample1060	0	0	1	0	3_intermediate	Nordic	57
Sample1061	0	1	0	0	3_intermediate	Mediterranean	57
Sample1062	0	1	0	0	3_intermediate	Mediterranean	57
Sample1063	1	0	0	0	2_short	Nordic	57
Sample1064	1	0	0	1	4_long	Nordic	57
Sample1065	1	0	0	0	3_intermediate	Nordic	57
Sample1066	0	1	0	0	3_intermediate	Nordic	57
Sample1067	1	0	0	0	3_intermediate	Nordic	57
Sample1068	1	0	0	0	2_short	Nordic	57
Sample1069	1	0	0	1	4_long	Nordic	57
Sample1070	1	0	0	1	4_long	Nordic	57
Sample1071	0	1	0	0	1_NO	Mediterranean	57
Sample1072	0	1	0	0	1_NO	Mediterranean	57
Sample1073	1	0	0	0	1_NO	Mediterranean	57
Sample1074	1	0	0	0	3_intermediate	Mediterranean	57
Sample1075	1	0	0	0	2_short	Mediterranean	57
Sample1076	1	0	0	0	1_NO	Mediterranean	57
Sample1077	0	1	0	0	1_NO	Mediterranean	57
Sample1078	1	0	0	0	2_short	Mediterranean	57

Sample1079	1	0	0	0	3_intermediate	Mediterranean	57
Sample1080	0	1	0	0	NA	Nordic	56
Sample1081	1	0	0	0	NA	Nordic	56
Sample1082	1	0	0	0	NA	Mediterranean	56
Sample1083	0	1	0	0	NA	Nordic	56
Sample1084	1	0	0	0	NA	Nordic	56
Sample1085	0	1	0	0	NA	Nordic	56
Sample1086	1	0	0	0	NA	Nordic	56
Sample1087	0	1	0	0	NA	Nordic	56
Sample1088	1	0	0	0	NA	Nordic	56
Sample1089	0	1	0	0	NA	Nordic	56
Sample1090	1	0	0	0	NA	Nordic	56
Sample1091	1	0	0	0	NA	Nordic	56
Sample1092	0	1	0	0	NA	Nordic	56
Sample1093	1	0	0	0	NA	Mediterranean	56
Sample1094	1	0	0	0	2_short	Nordic	56
Sample1095	0	1	0	0	3_intermediate	Nordic	56
Sample1096	1	0	0	0	3_intermediate	Nordic	56
Sample1097	1	0	0	0	1_NO	Nordic	56
Sample1098	0	1	0	0	2_short	Nordic	56
Sample1099	0	0	1	0	1_NO	Nordic	56
Sample1100	1	0	0	0	3_intermediate	Nordic	56
Sample1101	0	1	0	0	3_intermediate	Nordic	56
Sample1102	0	1	0	0	1_NO	Nordic	56
Sample1103	1	0	0	0	3_intermediate	Nordic	56
Sample1104	0	0	1	0	3_intermediate	Nordic	56
Sample1105	0	1	0	0	3_intermediate	Mediterranean	56
Sample1106	1	0	0	0	3_intermediate	Mediterranean	56
Sample1107	1	0	0	0	2_short	Mediterranean	56
Sample1108	0	1	0	0	1_NO	Nordic	56
Sample1109	0	1	0	0	1_NO	Nordic	56

Sample1110	1	0	0	0	2_short	Mediterranean	56
Sample1111	1	0	0	0	2_short	Nordic	56
Sample1112	1	0	0	0	3_intermediate	Nordic	56
Sample1113	1	0	0	0	3_intermediate	Nordic	56
Sample1114	0	1	0	0	2_short	Nordic	56
Sample1115	1	0	0	0	2_short	Nordic	56
Sample1116	1	0	0	0	3_intermediate	Nordic	56
Sample1117	1	0	0	0	2_short	Nordic	56
Sample1118	0	1	0	0	2_short	Nordic	56
Sample1119	1	0	0	0	2_short	Nordic	56
Sample1120	0	1	0	0	3_intermediate	Mediterranean	56
Sample1121	0	1	0	0	2_short	Mediterranean	56
Sample1122	0	1	0	0	2_short	Mediterranean	56
Sample1123	0	1	0	0	3_intermediate	Mediterranean	56
Sample1124	0	1	0	0	3_intermediate	Mediterranean	56
Sample1125	0	1	0	0	1_NO	Nordic	55
Sample1126	1	0	0	0	NA	Nordic	55
Sample1127	1	0	0	0	NA	Mediterranean	55
Sample1128	0	1	0	0	NA	Nordic	55
Sample1129	1	0	0	0	NA	Nordic	55
Sample1130	1	0	0	0	NA	Nordic	55
Sample1131	1	0	0	0	NA	Nordic	55
Sample1132	1	0	0	0	NA	Nordic	55
Sample1133	1	0	0	0	NA	Nordic	55
Sample1134	1	0	0	0	NA	Nordic	55
Sample1135	1	0	0	0	NA	Nordic	55
Sample1136	1	0	0	0	NA	Nordic	55
Sample1137	0	1	0	0	NA	Nordic	55
Sample1138	1	0	0	0	NA	Nordic	55
Sample1139	1	0	0	0	NA	Nordic	55
Sample1140	0	1	0	0	NA	Nordic	55

Sample1141	1	0	0	0	NA	Nordic	55
Sample1142	0	1	0	1	NA	Mediterranean	55
Sample1143	1	0	0	0	NA	Mediterranean	55
Sample1144	1	0	0	0	NA	Mediterranean	55
Sample1145	1	0	0	0	NA	Mediterranean	55
Sample1146	1	0	0	0	1_NO	Mediterranean	55
Sample1147	0	0	1	1	4_long	Nordic	55
Sample1148	0	1	0	0	1_NO	Nordic	55
Sample1149	0	1	0	0	2_short	Nordic	55
Sample1150	0	1	0	0	1_NO	Nordic	55
Sample1151	0	1	0	0	1_NO	Nordic	55
Sample1152	0	1	0	0	2_short	Nordic	55
Sample1153	1	0	0	0	1_NO	Nordic	55
Sample1154	0	1	0	0	3_intermediate	Nordic	55
Sample1155	0	1	0	0	2_short	Nordic	55
Sample1156	1	0	0	0	3_intermediate	Nordic	55
Sample1157	0	1	0	0	2_short	Nordic	55
Sample1158	1	0	0	1	4_long	Nordic	55
Sample1159	1	0	0	0	2_short	Nordic	55
Sample1160	1	0	0	1	4_long	Nordic	55
Sample1161	1	0	0	0	2_short	Nordic	55
Sample1162	0	1	0	0	3_intermediate	Nordic	55
Sample1163	1	0	0	0	2_short	Mediterranean	55
Sample1164	1	0	0	0	1_NO	Mediterranean	55
Sample1165	1	0	0	0	3_intermediate	Mediterranean	55
Sample1166	1	0	0	0	3_intermediate	Mediterranean	55
Sample1167	0	1	0	0	3_intermediate	Mediterranean	55
Sample1168	1	0	0	0	2_short	Mediterranean	55
Sample1169	0	1	0	0	1_NO	Nordic	55
Sample1170	1	0	0	0	2_short	Nordic	55
Sample1171	0	1	0	0	2_short	Nordic	55

Sample1172	1	0	0	1	4_long	Nordic	55
Sample1173	1	0	0	0	2_short	Nordic	55
Sample1174	1	0	0	0	1_NO	Nordic	55
Sample1175	1	0	0	1	4_long	Nordic	55
Sample1176	0	1	0	0	1_NO	Nordic	55
Sample1177	1	0	0	0	1_NO	Mediterranean	55
Sample1178	1	0	0	0	3_intermediate	Mediterranean	55
Sample1179	1	0	0	0	2_short	Mediterranean	55
Sample1180	1	0	0	0	2_short	Mediterranean	55
Sample1181	1	0	0	0	3_intermediate	Mediterranean	55
Sample1182	1	0	0	0	NA	Mediterranean	54
Sample1183	1	0	0	0	NA	Mediterranean	54
Sample1184	0	1	0	0	NA	Nordic	54
Sample1185	0	1	0	0	NA	Mediterranean	54
Sample1186	0	0	1	0	NA	Nordic	54
Sample1187	1	0	0	0	NA	Nordic	54
Sample1188	1	0	0	0	NA	Nordic	54
Sample1189	1	0	0	0	NA	Nordic	54
Sample1190	0	0	1	0	NA	Nordic	54
Sample1191	1	0	0	0	NA	Nordic	54
Sample1192	1	0	0	0	NA	Mediterranean	54
Sample1193	1	0	0	0	NA	Mediterranean	54
Sample1194	1	0	0	0	NA	Mediterranean	54
Sample1195	1	0	0	0	NA	Mediterranean	54
Sample1196	0	0	1	0	NA	Mediterranean	54
Sample1197	1	0	0	0	NA	Mediterranean	54
Sample1198	0	1	0	0	3_intermediate	Mediterranean	54
Sample1199	0	0	1	0	2_short	Nordic	54
Sample1200	0	1	0	0	3_intermediate	Nordic	54
Sample1201	0	1	0	0	1_NO	Nordic	54
Sample1202	0	0	1	0	2_short	Nordic	54

Sample1203	1	0	0	0	3_intermediate	Nordic	54
Sample1204	0	1	0	0	2_short	Nordic	54
Sample1205	1	0	0	0	3_intermediate	Nordic	54
Sample1206	1	0	0	0	3_intermediate	Nordic	54
Sample1207	0	1	0	0	2_short	Nordic	54
Sample1208	1	0	0	0	3_intermediate	Nordic	54
Sample1209	1	0	0	0	3_intermediate	Nordic	54
Sample1210	1	0	0	1	4_long	Nordic	54
Sample1211	1	0	0	0	2_short	Nordic	54
Sample1212	1	0	0	0	2_short	Mediterranean	54
Sample1213	1	0	0	0	3_intermediate	Mediterranean	54
Sample1214	0	1	0	0	1_NO	Mediterranean	54
Sample1215	1	0	0	0	1_NO	Mediterranean	54
Sample1216	1	0	0	0	NA	Mediterranean	53
Sample1217	1	0	0	0	NA	Mediterranean	53
Sample1218	1	0	0	1	NA	Mediterranean	53
Sample1219	1	0	0	0	NA	Mediterranean	53
Sample1220	1	0	0	0	NA	Nordic	53
Sample1221	0	1	0	0	NA	Nordic	53
Sample1222	0	1	0	0	NA	Nordic	53
Sample1223	1	0	0	0	NA	Nordic	53
Sample1224	0	1	0	0	NA	Nordic	53
Sample1225	1	0	0	0	NA	Nordic	53
Sample1226	0	1	0	0	NA	Nordic	53
Sample1227	1	0	0	0	NA	Nordic	53
Sample1228	0	1	0	0	NA	Mediterranean	53
Sample1229	1	0	0	0	NA	Mediterranean	53
Sample1230	1	0	0	0	2_short	Mediterranean	53
Sample1231	0	1	0	0	3_intermediate	Nordic	53
Sample1232	1	0	0	0	3_intermediate	Nordic	53
Sample1233	1	0	0	0	2_short	Nordic	53

Sample1234	1	0	0	0	2_short	Nordic	53
Sample1235	1	0	0	0	3_intermediate	Nordic	53
Sample1236	0	1	0	0	2_short	Nordic	53
Sample1237	0	1	0	0	2_short	Nordic	53
Sample1238	1	0	0	0	3_intermediate	Nordic	53
Sample1239	0	0	1	0	3_intermediate	Nordic	53
Sample1240	1	0	0	1	4_long	Nordic	53
Sample1241	1	0	0	0	2_short	Nordic	53
Sample1242	0	1	0	0	2_short	Nordic	53
Sample1243	0	1	0	0	2_short	Nordic	53
Sample1244	0	1	0	0	2_short	Mediterranean	53
Sample1245	1	0	0	0	1_NO	Mediterranean	53
Sample1246	0	0	1	0	2_short	Mediterranean	53
Sample1247	1	0	0	0	NA	Mediterranean	52
Sample1248	1	0	0	0	NA	Nordic	52
Sample1249	1	0	0	0	NA	Nordic	52
Sample1250	1	0	0	1	NA	Mediterranean	52
Sample1251	1	0	0	0	2_short	Mediterranean	52
Sample1252	1	0	0	0	2_short	Nordic	52
Sample1253	0	0	1	0	2_short	Nordic	52
Sample1254	1	0	0	0	3_intermediate	Mediterranean	52
Sample1255	1	0	0	1	4_long	Nordic	52
Sample1256	1	0	0	0	2_short	Nordic	52
Sample1257	0	0	1	0	3_intermediate	Nordic	52
Sample1258	1	0	0	0	3_intermediate	Nordic	52
Sample1259	1	0	0	0	2_short	Nordic	52
Sample1260	1	0	0	0	2_short	Nordic	52
Sample1261	0	0	1	0	2_short	Nordic	52
Sample1262	1	0	0	0	3_intermediate	Mediterranean	52
Sample1263	1	0	0	0	2_short	Mediterranean	52
Sample1264	0	1	0	0	1_NO	Mediterranean	52

Sample1265	0	1	0	0	2_short	Mediterranean	52
Sample1266	1	0	0	0	3_intermediate	Mediterranean	52
Sample1267	1	0	0	0	2_short	Mediterranean	52
Sample1268	0	0	1	0	2_short	Mediterranean	52
Sample1269	1	0	0	0	NA	Nordic	51
Sample1270	0	1	0	0	NA	Mediterranean	51
Sample1271	0	1	0	0	NA	Nordic	51
Sample1272	1	0	0	0	NA	Nordic	51
Sample1273	0	0	1	0	NA	Mediterranean	51
Sample1274	1	0	0	0	NA	Mediterranean	51
Sample1275	1	0	0	0	2_short	Nordic	51
Sample1276	1	0	0	0	1_NO	Nordic	51
Sample1277	0	0	1	0	3_intermediate	Nordic	51
Sample1278	1	0	0	0	3_intermediate	Nordic	51
Sample1279	0	1	0	0	2_short	Nordic	51
Sample1280	1	0	0	0	1_NO	Nordic	51
Sample1281	1	0	0	0	2_short	Nordic	51
Sample1282	0	0	1	0	1_NO	Nordic	51
Sample1283	1	0	0	0	NA	Nordic	50
Sample1284	0	1	0	0	NA	Nordic	50
Sample1285	0	1	0	0	NA	Nordic	50
Sample1286	0	1	0	0	NA	Nordic	50
Sample1287	1	0	0	0	NA	Mediterranean	50
Sample1288	1	0	0	0	NA	Mediterranean	50
Sample1289	1	0	0	0	NA	Mediterranean	50
Sample1290	0	0	1	0	2_short	Nordic	50
Sample1291	0	1	0	0	2_short	Nordic	50
Sample1292	1	0	0	0	3_intermediate	Nordic	50
Sample1293	0	1	0	0	3_intermediate	Nordic	50
Sample1294	1	0	0	0	2_short	Nordic	50
Sample1295	1	0	0	0	2_short	Mediterranean	50

Sample1296	1	0	0	0	2_short	Nordic	50
Sample1297	1	0	0	0	3_intermediate	Nordic	50
Sample1298	1	0	0	1	4_long	Nordic	50
Sample1299	1	0	0	0	1_NO	Mediterranean	50
Sample1300	0	0	1	0	1_NO	Mediterranean	50
Sample1301	0	1	0	0	NA	Nordic	49
Sample1302	1	0	0	0	NA	Nordic	49
Sample1303	1	0	0	0	NA	Mediterranean	49
Sample1304	1	0	0	0	NA	Mediterranean	49
Sample1305	1	0	0	0	3_intermediate	Mediterranean	49
Sample1306	0	1	0	1	4_long	Nordic	49
Sample1307	0	1	0	0	2_short	Nordic	49
Sample1308	1	0	0	0	2_short	Nordic	49
Sample1309	0	1	0	0	1_NO	Mediterranean	49
Sample1310	1	0	0	0	2_short	Mediterranean	49
Sample1311	1	0	0	0	2_short	Mediterranean	49
Sample1312	0	1	0	0	1_NO	Mediterranean	49
Sample1313	1	0	0	0	2_short	Mediterranean	49
Sample1314	0	1	0	0	2_short	Mediterranean	49
Sample1315	1	0	0	0	NA	Mediterranean	48
Sample1316	1	0	0	0	NA	Nordic	48
Sample1317	1	0	0	0	NA	Nordic	48
Sample1318	1	0	0	0	NA	Nordic	48
Sample1319	1	0	0	0	NA	Nordic	48
Sample1320	0	0	1	0	NA	Nordic	48
Sample1321	1	0	0	0	NA	Mediterranean	48
Sample1322	0	0	1	0	NA	Mediterranean	48
Sample1323	1	0	0	0	NA	Mediterranean	48
Sample1324	0	1	0	0	2_short	Nordic	48
Sample1325	1	0	0	0	3_intermediate	Nordic	48
Sample1326	1	0	0	1	4_long	Nordic	48

Sample1327	1	0	0	0	3_intermediate	Nordic	48
Sample1328	1	0	0	1	4_long	Nordic	48
Sample1329	1	0	0	0	2_short	Nordic	48
Sample1330	0	1	0	0	3_intermediate	Mediterranean	48
Sample1331	0	1	0	0	2_short	Mediterranean	48
Sample1332	1	0	0	0	NA	Nordic	47
Sample1333	0	1	0	0	NA	Nordic	47
Sample1334	1	0	0	0	2_short	Nordic	47
Sample1335	1	0	0	0	2_short	Nordic	47
Sample1336	1	0	0	0	3_intermediate	Nordic	47
Sample1337	0	1	0	0	1_NO	Nordic	47
Sample1338	1	0	0	0	2_short	Nordic	47
Sample1339	1	0	0	0	2_short	Nordic	47
Sample1340	1	0	0	0	3_intermediate	Mediterranean	47
Sample1341	1	0	0	0	2_short	Mediterranean	47
Sample1342	1	0	0	0	2_short	Mediterranean	47
Sample1343	1	0	0	0	NA	Nordic	46
Sample1344	1	0	0	0	NA	Mediterranean	46
Sample1345	1	0	0	0	3_intermediate	Nordic	46
Sample1346	1	0	0	1	4_long	Nordic	46
Sample1347	1	0	0	0	NA	Nordic	45
Sample1348	1	0	0	0	2_short	Mediterranean	45
Sample1349	1	0	0	0	3_intermediate	Nordic	45
Sample1350	1	0	0	0	3_intermediate	Nordic	45
Sample1351	1	0	0	0	3_intermediate	Nordic	45
Sample1352	1	0	0	0	3_intermediate	Nordic	45
Sample1353	1	0	0	0	3_intermediate	Nordic	45
Sample1354	0	1	0	0	2_short	Nordic	45
Sample1355	1	0	0	0	1_NO	Nordic	45
Sample1356	1	0	0	1	4_long	Nordic	45
Sample1357	1	0	0	0	2_short	Nordic	45

Sample1358	1	0	0	0	1_NO	Nordic	45
Sample1359	1	0	0	0	3_intermediate	Mediterranean	45
Sample1360	1	0	0	0	NA	Nordic	44
Sample1361	1	0	0	0	3_intermediate	Nordic	44
Sample1362	1	0	0	0	1_NO	Nordic	44
Sample1363	1	0	0	0	2_short	Mediterranean	44
Sample1364	1	0	0	0	3_intermediate	Mediterranean	44
Sample1365	1	0	0	0	NA	Nordic	43
Sample1366	1	0	0	0	2_short	Nordic	43
Sample1367	1	0	0	0	2_short	Nordic	43
Sample1368	1	0	0	0	2_short	Mediterranean	43
Sample1369	0	0	1	0	NA	Nordic	42
Sample1370	1	0	0	0	NA	Nordic	42
Sample1371	1	0	0	0	NA	Nordic	42
Sample1372	1	0	0	0	NA	Mediterranean	42
Sample1373	1	0	0	0	NA	Mediterranean	42
Sample1374	1	0	0	0	2_short	Nordic	42
Sample1375	1	0	0	0	NA	Mediterranean	41
Sample1376	1	0	0	0	NA	Nordic	41
Sample1377	0	1	0	0	NA	Mediterranean	41
Sample1378	1	0	0	0	NA	Mediterranean	41
Sample1379	1	0	0	0	1_NO	Nordic	40
Sample1380	0	1	0	0	2_short	Nordic	40
Sample1381	0	1	0	0	3_intermediate	Nordic	40
Sample1382	0	1	0	0	3_intermediate	Nordic	40
Sample1383	1	0	0	0	NA	Mediterranean	39
Sample1384	1	0	0	0	3_intermediate	Mediterranean	39
Sample1385	0	0	1	1	4_long	Nordic	39
Sample1386	1	0	0	0	NA	Nordic	38
Sample1387	1	0	0	0	NA	Mediterranean	38
Sample1388	1	0	0	1	NA	Nordic	37

Sample1389	1	0	0	0	2_short	Mediterranean	35
Sample1390	1	0	0	0	2_short	Nordic	31
Sample1391	1	0	0	0	2_short	Nordic	31
Sample1392	1	0	0	0	2_short	Nordic	29
Sample1393	1	0	0	0	NA	Nordic	28
Sample1394	1	0	0	0	3_intermediate	Nordic	28
Sample1395	1	0	0	0	3_intermediate	Mediterranean	23
Sample1396	1	0	0	0	3_intermediate	Nordic	20

Genotypes (in yellow risk-allele) for the C9orf72 haplotype markers

Exp (Yes /no)	Marker ID	rs1822723	rs4879515	rs868856	rs1977661	rs903603	rs10122902	rs2282241	rs1948522	rs1982915	rs2453556	rs702231	rs69682 6	rs2477518
	REF	C	C	C	C	C	G	G	C	G	A	A	G	T
	ALT	T	T	T	A	T	A	T	T	A	G	C	A	C
	HOM	0/0	.1/1	.1/1	0/0	0/0	0/0	0/0	0/0	0/0	.1/1	0/0	0/0	0/0
	HET	1	1	1	1	1	1	1	1	1	1	1	1	1
Exp (Yes /no)	**Cluster**							**Genotype**						
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	0/0	1	1	1
1	Nordic	1	1	1	1	1	1	./.	./.	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	0/0	1	1	1
1	Nordic	1	0/0	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1

1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	./.	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	./.	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	./.	1	1	1	1
1	Nordic	1	1	1	1	1	1	./.	1	./.	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	.1/1
1	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	0/0	1	1	.1/1	1	1	1	1	1	1	1
0	Nordic	.1/1	1	0/0	1	.1/1	1	1	1	1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1

0	Nordic	1	1	1	1	1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	.1/1	1	.1/1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	0/0	0/0	1	.1/1	1	.1/1	1	.1/1	0/0	1	1	1
0	Nordic	1	0/0	0/0	1	.1/1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	.1/1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	0/0	1	1	1
0	Nordic	1	0/0	0/0	1	.1/1	1	.1/1	1	.1/1	1	.1/1	1	1
0	Nordic	1	0/0	0/0	1	1	1	.1/1	1	1	0/0	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	0/0	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	0/0	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	0/0	0/0	1	.1/1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	1	1	1	1	1
0	Nordic	1	0/0	1	1	1	1	1	1	1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	.1/1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	1	0/0	1	1	1
0	Nordic	.1/1	1	0/0	.1/1	.1/1	1	.1/1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	.1/1	.1/1	.1/1	1	1	.1/1	.1/1	.1/1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	1	0/0	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	1

0	Nordic	1	0/0	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	1	1	1	1	1	1	.1/1
0	Nordic	.1/1	1	1	1	1	1	.1/1	1	1	0/0	.1/1	1	1
0	Nordic	.1/1	0/0	1	1	1	1	1	1	1	0/0	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	.1/1	.1/1	1	1	1	1	1	.1/1
0	Nordic	1	1	1	1	1	.1/1	.1/1	.1/1	1	1	1	1	.1/1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	0/0	1	1	1	1	.1/1	.1/1	1	1	1	1	1
0	Nordic	1	0/0	0/0	1	1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	0/0	0/0	1	1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	0/0	0/0	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	0/0	0/0	1	.1/1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	.1/1	1	0/0	.1/1	.1/1	1	.1/1	1	1	0/0	1	1	1
0	Nordic	1	1	0/0	1	.1/1	1	1	1	1	0/0	1	1	1
0	Nordic	1	1	0/0	1	.1/1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	.1/1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	0/0	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Nordic	1	1	0/0	1	1	1	.1/1	1	.1/1	1	1	1	1
0	Nordic	1	0/0	0/0	1	.1/1	1	1	1	.1/1	1	1	1	1
0	Nordic	1	1	0/0	1	1	.1/1	1	.1/1	1	1	1	1	1
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0	Mediterranean	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Mediterranean	1	1	0/0	1	.1/1	1	1	1	.1/1	0/0	1	1	1
0	Mediterranean	1	0/0	0/0	1	.1/1	1	1	1	1	1	1	1	1
0	Mediterranean	1	1	1	1	1	1	1	1	1	1	1	1	1
0	Mediterranean	1	1	1	1	1	1	1	1	.1/1	0/0	1	1	1
0	Mediterranean	1	0/0	0/0	1	.1/1	1	.1/1	1	.1/1	0/0	1	1	1
0	Mediterranean	1	1	1	1	1	1	1	1	1	0/0	1	1	1

Principal components

PC1	PC2
0.0228482	-0.0118652
0.0127349	-0.00263657
0.017867	-0.0107985
0.0195991	-0.0162325
0.0300117	-0.439051
0.0238905	-0.0190742
0.016631	-0.00969329
0.0193999	-0.013114
0.0117674	-0.0113506
0.0304916	-0.159258
0.0138184	-0.00931794
0.0149191	-0.00920104
0.0156328	-0.0112559
0.0189982	-0.00798761
0.0202424	-0.011374
0.0149552	-0.0139822
0.0164163	-0.020348
0.0233328	0.000396775
0.0249375	0.00876652
0.0157168	0.00489724
0.0222461	0.0021915
0.0290507	0.000268904
0.0249443	-0.000696132
0.0254167	-0.00132436
0.0289051	-0.00346154

0.0501386	0.0111931
0.0272694	0.00755511
0.0504993	0.0165529
0.0537685	0.0162137
0.0152046	0.000739671
0.0332314	0.00171853
0.0264031	-0.0037571
0.0204226	0.000383171
0.0455985	0.0117647
0.0253057	-0.00221947
0.0339903	0.000418513
0.0247138	0.00471562
0.00601522	-0.00863114
0.0241411	0.00700281
0.0273624	0.00692333
0.0316004	0.00287362
0.0500011	0.0191273
0.0271505	-0.00243993
0.0301221	0.00269759
0.0261467	-0.0105804
0.0259661	-0.00747253
0.024769	0.0103909
0.0476014	0.0174709
0.0250702	-0.00378548
0.0530494	0.0119237
0.0285549	0.00182934
0.0242666	0.00706115
0.0537399	0.01482
0.0249142	0.004647
0.0205517	0.00178354

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0.0333688	0.0178353
0.0203107	0.00153664
0.0217789	-0.00430105
0.0494653	0.00766461
0.0247607	0.0102107
0.0269607	0.0124385
0.0255198	0.00472557
0.0248209	-0.0149354
0.0182918	-0.000206366
0.0218285	0.00719657
0.0248901	0.0054519
0.0274275	0.00599385
0.0227711	-0.000822795
0.0288444	0.00737394
0.0283264	0.00108837
0.0263045	-0.000869556
0.0258086	0.00710878
0.0257666	0.000776813
0.0235087	0.00518086
0.0280202	-0.00558606
0.0290696	0.00385038
0.0277647	0.0104858
0.0284659	0.0131548
0.0249744	-0.003127
0.0252434	-0.00528145
0.0272516	0.0130889
0.0399295	0.00517302
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0.0257946	-0.00200165

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0.0219341	0.00755934
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0.0249271	0.012636
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0.0567038	0.0165882
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0.0535216	0.00936591
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