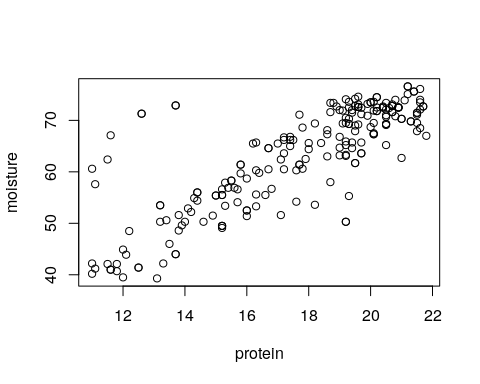
ass4.R

augjo318

2019-11-24

library(readxl)  
library(Metrics)  
library(ggplot2)  
data <- read\_excel("/home/augjo318/Desktop/TDDE01\_Lab1/tecator.xlsx")  
  
# moisture is n.dist  
  
# expected moisture is polynomial function of protein,   
# including the polynomial terms to power up  
  
# MSE criterion  
  
protein = data$Protein  
fat = data$Fat  
moisture = data$Moisture  
# bild1  
plot(protein, moisture)



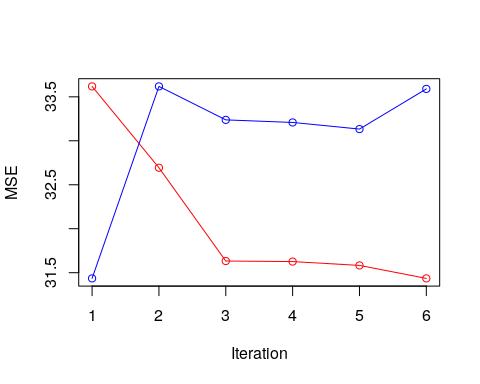
n = dim(data)[1]  
set.seed(12345)  
id=sample(1:n, floor(n\*0.5))  
train=data[id,]  
test=data[-id,]  
  
MSEtrain <- array(1:6)  
MSEtest <- array(1:6)  
  
# 1  
model1 <- lm(Moisture ~ Protein, data = train)  
trainpred <- predict(model1, train, type = "response")  
testpred <- predict(model1, test, type = "response")  
  
MSEtrain[1] = mse(trainpred, train$Moisture)  
MSEtest[1] = mse(testpred, test$Moisture)  
  
#2  
model2 <- lm(Moisture ~ Protein + I(Protein^2), data = train)  
trainpred <- predict(model2, train, type = "response")  
testpred <- predict(model2, test, type = "response")  
  
MSEtrain[2] = mse(trainpred, train$Moisture)  
MSEtest[2] = mse(testpred, test$Moisture)  
  
#3  
  
model3 <- lm(Moisture ~ Protein + I(Protein^2) + I(Protein^3), data = train)  
trainpred <- predict(model3, train, type = "response")  
testpred <- predict(model3, test, type = "response")  
  
MSEtrain[3] = mse(trainpred, train$Moisture)  
MSEtest[3] = mse(testpred, test$Moisture)  
  
#4  
  
model4 <- lm(Moisture ~ Protein + I(Protein^2) + I(Protein^3) + I(Protein^4), data = train)  
trainpred <- predict(model4, train, type = "response")  
testpred <- predict(model4, test, type = "response")  
  
MSEtrain[4] = mse(trainpred, train$Moisture)  
MSEtest[4] = mse(testpred, test$Moisture)  
  
#5  
  
model5 <- lm(Moisture ~ Protein + I(Protein^2) + I(Protein^3) + I(Protein^4) + I(Protein^5), data = train)  
trainpred <- predict(model5, train, type = "response")  
testpred <- predict(model5, test, type = "response")  
  
MSEtrain[5] = mse(trainpred, train$Moisture)  
MSEtest[5] = mse(testpred, test$Moisture)  
  
#6  
  
model6 <- lm(Moisture ~ Protein + I(Protein^2) + I(Protein^3) + I(Protein^4) + I(Protein^5) + I(Protein^6), data = train)  
trainpred <- predict(model6, train, type = "response")  
testpred <- predict(model6, test, type = "response")  
  
MSEtrain[6] = mse(trainpred, train$Moisture)  
MSEtest[6] = mse(testpred, test$Moisture)  
  
  
print(MSEtrain)

## [1] 33.61836 32.69342 31.63266 31.62641 31.58273 31.43513

print(MSEtest)

## [1] 32.28154 34.23708 33.89615 33.86992 33.80234 34.21152

# bild 2  
plot(MSEtrain,type = "o", col = "red", xlab = "Iteration", ylab = "MSE")  
par(new=TRUE)  
plot(MSEtest,type = "o", col = "blue", xlab = "Iteration", ylab = "MSE", axes = FALSE, ann = FALSE)



# 4.4  
  
library(MASS)  
  
channel1\_100 <- data[,2:101]  
fat = data$Fat  
  
model <- lm(fat ~ ., channel1\_100)  
t <- stepAIC(model)

## Start: AIC=151.27  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel38 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel43 + Channel44 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel49 + Channel50 + Channel51 +   
## Channel52 + Channel53 + Channel54 + Channel55 + Channel56 +   
## Channel57 + Channel58 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel66 +   
## Channel67 + Channel68 + Channel69 + Channel70 + Channel71 +   
## Channel72 + Channel73 + Channel74 + Channel75 + Channel76 +   
## Channel77 + Channel78 + Channel79 + Channel80 + Channel81 +   
## Channel82 + Channel83 + Channel84 + Channel85 + Channel86 +   
## Channel87 + Channel88 + Channel89 + Channel90 + Channel91 +   
## Channel92 + Channel93 + Channel94 + Channel95 + Channel96 +   
## Channel97 + Channel98 + Channel99 + Channel100  
##   
## Df Sum of Sq RSS AIC  
## - Channel70 1 0.0001 169.81 149.27  
## - Channel89 1 0.0006 169.81 149.27  
## - Channel57 1 0.0007 169.81 149.27  
## - Channel66 1 0.0008 169.81 149.27  
## - Channel100 1 0.0012 169.81 149.27  
## - Channel58 1 0.0034 169.82 149.28  
## - Channel38 1 0.0039 169.82 149.28  
## - Channel53 1 0.0214 169.83 149.30  
## - Channel9 1 0.0335 169.85 149.31  
## - Channel77 1 0.0337 169.85 149.31  
## - Channel91 1 0.0520 169.86 149.34  
## - Channel93 1 0.1069 169.92 149.41  
## - Channel33 1 0.1155 169.93 149.42  
## - Channel72 1 0.1158 169.93 149.42  
## - Channel49 1 0.1316 169.94 149.44  
## - Channel97 1 0.1479 169.96 149.46  
## - Channel82 1 0.1658 169.98 149.48  
## - Channel48 1 0.1814 169.99 149.50  
## - Channel90 1 0.2315 170.04 149.56  
## - Channel96 1 0.2356 170.05 149.57  
## - Channel86 1 0.2415 170.05 149.58  
## - Channel17 1 0.2498 170.06 149.59  
## - Channel65 1 0.3354 170.15 149.70  
## - Channel76 1 0.3961 170.21 149.77  
## - Channel10 1 0.3988 170.21 149.78  
## - Channel84 1 0.4414 170.25 149.83  
## - Channel23 1 0.4984 170.31 149.90  
## - Channel83 1 0.5107 170.32 149.92  
## - Channel95 1 0.5140 170.33 149.92  
## - Channel88 1 0.6058 170.42 150.04  
## - Channel62 1 0.6163 170.43 150.05  
## - Channel94 1 0.6665 170.48 150.11  
## - Channel3 1 0.6712 170.48 150.12  
## - Channel43 1 0.6809 170.49 150.13  
## - Channel92 1 0.7409 170.55 150.21  
## - Channel35 1 0.7422 170.56 150.21  
## - Channel34 1 0.7579 170.57 150.23  
## - Channel6 1 0.8013 170.61 150.28  
## - Channel20 1 0.9537 170.77 150.48  
## - Channel98 1 0.9845 170.80 150.51  
## - Channel26 1 1.0235 170.84 150.56  
## - Channel18 1 1.0793 170.89 150.63  
## - Channel16 1 1.1124 170.93 150.68  
## - Channel44 1 1.1378 170.95 150.71  
## - Channel21 1 1.3136 171.13 150.93  
## - Channel32 1 1.4590 171.27 151.11  
## - Channel19 1 1.4682 171.28 151.12  
## - Channel11 1 1.4804 171.29 151.14  
## - Channel8 1 1.4806 171.29 151.14  
## - Channel7 1 1.4813 171.29 151.14  
## - Channel15 1 1.5837 171.40 151.27  
## <none> 169.81 151.27  
## - Channel67 1 1.5877 171.40 151.27  
## - Channel78 1 1.6063 171.42 151.30  
## - Channel27 1 1.6209 171.43 151.31  
## - Channel75 1 1.6228 171.44 151.32  
## - Channel99 1 1.6327 171.44 151.33  
## - Channel24 1 1.8099 171.62 151.55  
## - Channel31 1 1.8184 171.63 151.56  
## - Channel71 1 2.1342 171.95 151.96  
## - Channel85 1 2.5506 172.36 152.48  
## - Channel87 1 2.6646 172.48 152.62  
## - Channel50 1 2.6742 172.49 152.63  
## - Channel47 1 2.8240 172.64 152.82  
## - Channel37 1 3.0349 172.85 153.08  
## - Channel5 1 3.0745 172.89 153.13  
## - Channel52 1 3.0985 172.91 153.16  
## - Channel14 1 3.1243 172.94 153.19  
## - Channel46 1 3.1490 172.96 153.22  
## - Channel40 1 3.2774 173.09 153.38  
## - Channel4 1 3.3777 173.19 153.51  
## - Channel41 1 3.4420 173.25 153.59  
## - Channel42 1 3.5931 173.41 153.77  
## - Channel22 1 3.8281 173.64 154.06  
## - Channel13 1 4.1826 174.00 154.50  
## - Channel59 1 4.3155 174.13 154.67  
## - Channel81 1 4.5315 174.34 154.93  
## - Channel61 1 4.5416 174.35 154.95  
## - Channel39 1 4.5499 174.36 154.96  
## - Channel36 1 4.9170 174.73 155.41  
## - Channel30 1 5.2904 175.10 155.87  
## - Channel12 1 5.3107 175.12 155.89  
## - Channel56 1 5.6245 175.44 156.28  
## - Channel25 1 5.6392 175.45 156.30  
## - Channel51 1 5.8157 175.63 156.51  
## - Channel74 1 5.8388 175.65 156.54  
## - Channel79 1 6.0704 175.88 156.82  
## - Channel69 1 6.6696 176.48 157.56  
## - Channel54 1 6.9667 176.78 157.92  
## - Channel2 1 7.2457 177.06 158.25  
## - Channel63 1 7.5845 177.40 158.67  
## - Channel68 1 8.4200 178.23 159.68  
## - Channel45 1 9.9029 179.72 161.46  
## - Channel64 1 10.2163 180.03 161.83  
## - Channel73 1 12.0678 181.88 164.03  
## - Channel60 1 12.7152 182.53 164.80  
## - Channel28 1 12.9807 182.79 165.11  
## - Channel55 1 13.2807 183.09 165.46  
## - Channel80 1 15.5434 185.36 168.10  
## - Channel29 1 15.6164 185.43 168.19  
## - Channel1 1 19.6098 189.42 172.77  
##   
## Step: AIC=149.27  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel38 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel43 + Channel44 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel49 + Channel50 + Channel51 +   
## Channel52 + Channel53 + Channel54 + Channel55 + Channel56 +   
## Channel57 + Channel58 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel66 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel72 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel77 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel82 +   
## Channel83 + Channel84 + Channel85 + Channel86 + Channel87 +   
## Channel88 + Channel89 + Channel90 + Channel91 + Channel92 +   
## Channel93 + Channel94 + Channel95 + Channel96 + Channel97 +   
## Channel98 + Channel99 + Channel100  
##   
## Df Sum of Sq RSS AIC  
## - Channel89 1 0.0006 169.81 147.27  
## - Channel57 1 0.0007 169.81 147.27  
## - Channel66 1 0.0008 169.81 147.27  
## - Channel100 1 0.0012 169.81 147.27  
## - Channel58 1 0.0034 169.82 147.28  
## - Channel38 1 0.0039 169.82 147.28  
## - Channel53 1 0.0225 169.84 147.30  
## - Channel9 1 0.0336 169.85 147.31  
## - Channel77 1 0.0339 169.85 147.31  
## - Channel91 1 0.0530 169.87 147.34  
## - Channel93 1 0.1078 169.92 147.41  
## - Channel33 1 0.1155 169.93 147.42  
## - Channel72 1 0.1223 169.94 147.43  
## - Channel49 1 0.1322 169.94 147.44  
## - Channel97 1 0.1506 169.96 147.46  
## - Channel82 1 0.1671 169.98 147.48  
## - Channel48 1 0.1814 169.99 147.50  
## - Channel90 1 0.2326 170.04 147.57  
## - Channel96 1 0.2376 170.05 147.57  
## - Channel86 1 0.2417 170.05 147.58  
## - Channel17 1 0.2507 170.06 147.59  
## - Channel65 1 0.3365 170.15 147.70  
## - Channel10 1 0.3996 170.21 147.78  
## - Channel76 1 0.4099 170.22 147.79  
## - Channel84 1 0.4418 170.25 147.83  
## - Channel23 1 0.5051 170.32 147.91  
## - Channel83 1 0.5125 170.32 147.92  
## - Channel95 1 0.5170 170.33 147.93  
## - Channel88 1 0.6084 170.42 148.04  
## - Channel62 1 0.6698 170.48 148.12  
## - Channel3 1 0.6723 170.49 148.12  
## - Channel94 1 0.6769 170.49 148.13  
## - Channel43 1 0.6919 170.50 148.15  
## - Channel92 1 0.7420 170.55 148.21  
## - Channel35 1 0.7454 170.56 148.21  
## - Channel34 1 0.7618 170.57 148.23  
## - Channel6 1 0.8013 170.61 148.28  
## - Channel20 1 0.9608 170.77 148.49  
## - Channel98 1 0.9844 170.80 148.51  
## - Channel26 1 1.0667 170.88 148.62  
## - Channel18 1 1.0916 170.90 148.65  
## - Channel16 1 1.1370 170.95 148.71  
## - Channel44 1 1.1503 170.96 148.72  
## - Channel21 1 1.3389 171.15 148.96  
## - Channel32 1 1.4638 171.28 149.12  
## - Channel19 1 1.4720 171.28 149.13  
## - Channel7 1 1.4832 171.30 149.14  
## - Channel8 1 1.4848 171.30 149.14  
## - Channel11 1 1.4860 171.30 149.15  
## <none> 169.81 149.27  
## - Channel15 1 1.5940 171.41 149.28  
## - Channel78 1 1.6070 171.42 149.30  
## - Channel27 1 1.6390 171.45 149.34  
## - Channel67 1 1.6476 171.46 149.35  
## - Channel99 1 1.6561 171.47 149.36  
## - Channel75 1 1.6990 171.51 149.41  
## - Channel31 1 1.8283 171.64 149.57  
## - Channel24 1 1.8363 171.65 149.59  
## - Channel85 1 2.5505 172.36 150.48  
## - Channel87 1 2.6646 172.48 150.62  
## - Channel50 1 2.6796 172.49 150.64  
## - Channel47 1 2.8251 172.64 150.82  
## - Channel37 1 3.0559 172.87 151.11  
## - Channel5 1 3.0754 172.89 151.13  
## - Channel14 1 3.1252 172.94 151.19  
## - Channel52 1 3.1885 173.00 151.27  
## - Channel46 1 3.2199 173.03 151.31  
## - Channel40 1 3.2814 173.09 151.39  
## - Channel4 1 3.3829 173.19 151.51  
## - Channel41 1 3.4451 173.26 151.59  
## - Channel42 1 3.6091 173.42 151.79  
## - Channel22 1 3.9097 173.72 152.17  
## - Channel13 1 4.1850 174.00 152.51  
## - Channel59 1 4.4799 174.29 152.87  
## - Channel39 1 4.5556 174.37 152.96  
## - Channel81 1 4.6731 174.49 153.11  
## - Channel36 1 4.9175 174.73 153.41  
## - Channel61 1 5.2614 175.07 153.83  
## - Channel30 1 5.3237 175.14 153.91  
## - Channel12 1 5.3488 175.16 153.94  
## - Channel71 1 5.3682 175.18 153.96  
## - Channel56 1 5.7691 175.58 154.46  
## - Channel51 1 5.8165 175.63 154.51  
## - Channel74 1 5.9838 175.80 154.72  
## - Channel25 1 6.0108 175.82 154.75  
## - Channel79 1 6.0842 175.90 154.84  
## - Channel2 1 7.2628 177.07 156.28  
## - Channel54 1 7.4640 177.28 156.52  
## - Channel63 1 7.7317 177.54 156.84  
## - Channel45 1 9.9613 179.77 159.53  
## - Channel68 1 10.0020 179.81 159.58  
## - Channel64 1 10.2820 180.09 159.91  
## - Channel73 1 12.1699 181.98 162.15  
## - Channel28 1 13.0365 182.85 163.18  
## - Channel60 1 13.3948 183.21 163.60  
## - Channel55 1 13.7054 183.52 163.96  
## - Channel69 1 14.2342 184.05 164.58  
## - Channel29 1 15.6500 185.46 166.23  
## - Channel80 1 15.8681 185.68 166.48  
## - Channel1 1 19.6315 189.44 170.79  
##   
## Step: AIC=147.27  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel38 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel43 + Channel44 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel49 + Channel50 + Channel51 +   
## Channel52 + Channel53 + Channel54 + Channel55 + Channel56 +   
## Channel57 + Channel58 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel66 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel72 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel77 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel82 +   
## Channel83 + Channel84 + Channel85 + Channel86 + Channel87 +   
## Channel88 + Channel90 + Channel91 + Channel92 + Channel93 +   
## Channel94 + Channel95 + Channel96 + Channel97 + Channel98 +   
## Channel99 + Channel100  
##   
## Df Sum of Sq RSS AIC  
## - Channel66 1 0.0004 169.81 145.27  
## - Channel57 1 0.0009 169.81 145.27  
## - Channel100 1 0.0010 169.81 145.27  
## - Channel38 1 0.0036 169.82 145.28  
## - Channel58 1 0.0037 169.82 145.28  
## - Channel53 1 0.0233 169.84 145.30  
## - Channel9 1 0.0330 169.85 145.31  
## - Channel77 1 0.0336 169.85 145.31  
## - Channel91 1 0.0568 169.87 145.34  
## - Channel93 1 0.1092 169.92 145.41  
## - Channel33 1 0.1151 169.93 145.42  
## - Channel72 1 0.1277 169.94 145.44  
## - Channel49 1 0.1324 169.94 145.44  
## - Channel97 1 0.1520 169.97 145.47  
## - Channel82 1 0.1665 169.98 145.48  
## - Channel48 1 0.1819 170.00 145.50  
## - Channel96 1 0.2374 170.05 145.57  
## - Channel17 1 0.2518 170.06 145.59  
## - Channel86 1 0.2527 170.07 145.59  
## - Channel10 1 0.4018 170.22 145.78  
## - Channel76 1 0.4153 170.23 145.80  
## - Channel65 1 0.4238 170.24 145.81  
## - Channel84 1 0.4432 170.26 145.83  
## - Channel90 1 0.4653 170.28 145.86  
## - Channel23 1 0.5045 170.32 145.91  
## - Channel83 1 0.5181 170.33 145.93  
## - Channel95 1 0.5188 170.33 145.93  
## - Channel94 1 0.6781 170.49 146.13  
## - Channel3 1 0.6817 170.50 146.13  
## - Channel43 1 0.6941 170.51 146.15  
## - Channel62 1 0.6967 170.51 146.15  
## - Channel35 1 0.7491 170.56 146.22  
## - Channel34 1 0.7613 170.57 146.24  
## - Channel92 1 0.7673 170.58 146.24  
## - Channel6 1 0.8080 170.62 146.29  
## - Channel20 1 0.9648 170.78 146.49  
## - Channel98 1 0.9849 170.80 146.52  
## - Channel26 1 1.0717 170.88 146.63  
## - Channel18 1 1.0910 170.90 146.65  
## - Channel16 1 1.1422 170.96 146.71  
## - Channel44 1 1.1505 170.96 146.72  
## - Channel21 1 1.3387 171.15 146.96  
## - Channel32 1 1.4644 171.28 147.12  
## - Channel19 1 1.4777 171.29 147.14  
## - Channel7 1 1.4853 171.30 147.15  
## - Channel8 1 1.4853 171.30 147.15  
## - Channel11 1 1.4873 171.30 147.15  
## <none> 169.81 147.27  
## - Channel15 1 1.6001 171.41 147.29  
## - Channel88 1 1.6135 171.43 147.31  
## - Channel78 1 1.6338 171.45 147.33  
## - Channel27 1 1.6489 171.46 147.35  
## - Channel99 1 1.6700 171.48 147.38  
## - Channel75 1 1.8004 171.61 147.54  
## - Channel67 1 1.8246 171.64 147.57  
## - Channel31 1 1.8303 171.64 147.58  
## - Channel24 1 1.8452 171.66 147.60  
## - Channel85 1 2.5543 172.37 148.48  
## - Channel50 1 2.6798 172.49 148.64  
## - Channel47 1 2.8565 172.67 148.86  
## - Channel37 1 3.0716 172.88 149.13  
## - Channel5 1 3.0876 172.90 149.15  
## - Channel14 1 3.1685 172.98 149.25  
## - Channel52 1 3.1889 173.00 149.27  
## - Channel46 1 3.2264 173.04 149.32  
## - Channel40 1 3.2919 173.10 149.40  
## - Channel87 1 3.3591 173.17 149.48  
## - Channel4 1 3.3973 173.21 149.53  
## - Channel41 1 3.4497 173.26 149.60  
## - Channel42 1 3.6171 173.43 149.80  
## - Channel22 1 3.9117 173.72 150.17  
## - Channel13 1 4.2043 174.02 150.53  
## - Channel59 1 4.4796 174.29 150.87  
## - Channel39 1 4.5792 174.39 150.99  
## - Channel81 1 4.7984 174.61 151.26  
## - Channel36 1 4.9289 174.74 151.43  
## - Channel61 1 5.3360 175.15 151.93  
## - Channel30 1 5.3472 175.16 151.94  
## - Channel12 1 5.3558 175.17 151.95  
## - Channel71 1 5.3851 175.20 151.99  
## - Channel51 1 5.8159 175.63 152.51  
## - Channel25 1 6.0197 175.83 152.76  
## - Channel79 1 6.0886 175.90 152.85  
## - Channel74 1 6.0887 175.90 152.85  
## - Channel56 1 6.2840 176.10 153.09  
## - Channel2 1 7.2829 177.10 154.30  
## - Channel54 1 7.7458 177.56 154.86  
## - Channel63 1 7.8383 177.65 154.97  
## - Channel45 1 10.0207 179.83 157.60  
## - Channel68 1 10.1529 179.97 157.76  
## - Channel64 1 10.9052 180.72 158.66  
## - Channel73 1 12.1934 182.01 160.18  
## - Channel28 1 13.1532 182.97 161.31  
## - Channel60 1 13.5112 183.32 161.73  
## - Channel69 1 14.2336 184.05 162.58  
## - Channel55 1 14.7543 184.57 163.19  
## - Channel29 1 15.8032 185.62 164.40  
## - Channel80 1 16.2351 186.05 164.90  
## - Channel1 1 19.6584 189.47 168.82  
##   
## Step: AIC=145.27  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel38 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel43 + Channel44 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel49 + Channel50 + Channel51 +   
## Channel52 + Channel53 + Channel54 + Channel55 + Channel56 +   
## Channel57 + Channel58 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel67 +   
## Channel68 + Channel69 + Channel71 + Channel72 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel77 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel82 + Channel83 +   
## Channel84 + Channel85 + Channel86 + Channel87 + Channel88 +   
## Channel90 + Channel91 + Channel92 + Channel93 + Channel94 +   
## Channel95 + Channel96 + Channel97 + Channel98 + Channel99 +   
## Channel100  
##   
## Df Sum of Sq RSS AIC  
## - Channel100 1 0.0010 169.81 143.28  
## - Channel57 1 0.0020 169.81 143.28  
## - Channel38 1 0.0035 169.82 143.28  
## - Channel58 1 0.0070 169.82 143.28  
## - Channel53 1 0.0259 169.84 143.31  
## - Channel9 1 0.0327 169.85 143.31  
## - Channel77 1 0.0335 169.85 143.32  
## - Channel91 1 0.0565 169.87 143.34  
## - Channel93 1 0.1131 169.93 143.42  
## - Channel33 1 0.1147 169.93 143.42  
## - Channel72 1 0.1279 169.94 143.44  
## - Channel49 1 0.1320 169.94 143.44  
## - Channel97 1 0.1531 169.97 143.47  
## - Channel82 1 0.1692 169.98 143.49  
## - Channel48 1 0.1870 170.00 143.51  
## - Channel96 1 0.2376 170.05 143.57  
## - Channel86 1 0.2531 170.07 143.59  
## - Channel17 1 0.2739 170.09 143.62  
## - Channel10 1 0.4026 170.22 143.78  
## - Channel76 1 0.4496 170.26 143.84  
## - Channel90 1 0.4722 170.29 143.87  
## - Channel84 1 0.4731 170.29 143.87  
## - Channel23 1 0.5123 170.33 143.92  
## - Channel95 1 0.5232 170.34 143.94  
## - Channel83 1 0.5585 170.37 143.98  
## - Channel3 1 0.6847 170.50 144.14  
## - Channel94 1 0.6864 170.50 144.14  
## - Channel43 1 0.6958 170.51 144.15  
## - Channel62 1 0.7038 170.52 144.16  
## - Channel35 1 0.7508 170.56 144.22  
## - Channel34 1 0.7635 170.58 144.24  
## - Channel92 1 0.7707 170.58 144.25  
## - Channel6 1 0.8155 170.63 144.30  
## - Channel98 1 0.9932 170.81 144.53  
## - Channel20 1 1.0509 170.86 144.60  
## - Channel26 1 1.0983 170.91 144.66  
## - Channel18 1 1.1083 170.92 144.67  
## - Channel65 1 1.1328 170.95 144.70  
## - Channel16 1 1.1459 170.96 144.72  
## - Channel44 1 1.1764 170.99 144.76  
## - Channel21 1 1.4009 171.21 145.04  
## - Channel32 1 1.4665 171.28 145.12  
## - Channel11 1 1.5018 171.31 145.17  
## - Channel7 1 1.5031 171.32 145.17  
## - Channel8 1 1.5146 171.33 145.18  
## - Channel19 1 1.5556 171.37 145.23  
## <none> 169.81 145.27  
## - Channel15 1 1.5997 171.41 145.29  
## - Channel78 1 1.6337 171.45 145.33  
## - Channel27 1 1.6556 171.47 145.36  
## - Channel88 1 1.6756 171.49 145.38  
## - Channel99 1 1.6825 171.50 145.39  
## - Channel75 1 1.8001 171.61 145.54  
## - Channel31 1 1.8408 171.65 145.59  
## - Channel24 1 1.8892 171.70 145.65  
## - Channel85 1 2.5994 172.41 146.54  
## - Channel50 1 2.6887 172.50 146.65  
## - Channel47 1 2.8637 172.68 146.87  
## - Channel37 1 3.0792 172.89 147.14  
## - Channel5 1 3.0943 172.91 147.16  
## - Channel14 1 3.1681 172.98 147.25  
## - Channel46 1 3.2465 173.06 147.34  
## - Channel40 1 3.2915 173.10 147.40  
## - Channel52 1 3.3225 173.14 147.44  
## - Channel4 1 3.3990 173.21 147.53  
## - Channel87 1 3.4154 173.23 147.56  
## - Channel41 1 3.4494 173.26 147.60  
## - Channel42 1 3.6174 173.43 147.81  
## - Channel22 1 4.0587 173.87 148.35  
## - Channel13 1 4.2098 174.02 148.54  
## - Channel39 1 4.5849 174.40 149.00  
## - Channel59 1 4.8152 174.63 149.28  
## - Channel81 1 4.8582 174.67 149.34  
## - Channel36 1 4.9481 174.76 149.45  
## - Channel61 1 5.3360 175.15 149.93  
## - Channel12 1 5.4109 175.22 150.02  
## - Channel30 1 5.4127 175.23 150.02  
## - Channel67 1 5.4681 175.28 150.09  
## - Channel51 1 5.8337 175.65 150.53  
## - Channel71 1 5.9542 175.77 150.68  
## - Channel79 1 6.2035 176.02 150.99  
## - Channel25 1 6.3485 176.16 151.16  
## - Channel74 1 6.7785 176.59 151.69  
## - Channel56 1 6.8145 176.63 151.73  
## - Channel2 1 7.3478 177.16 152.38  
## - Channel63 1 7.8426 177.66 152.98  
## - Channel54 1 7.9031 177.72 153.05  
## - Channel45 1 10.2850 180.10 155.92  
## - Channel64 1 11.6907 181.50 157.59  
## - Channel68 1 12.2542 182.07 158.25  
## - Channel73 1 13.0267 182.84 159.16  
## - Channel28 1 13.4707 183.28 159.69  
## - Channel60 1 13.5184 183.33 159.74  
## - Channel69 1 14.2350 184.05 160.58  
## - Channel55 1 14.9952 184.81 161.47  
## - Channel29 1 16.0287 185.84 162.67  
## - Channel80 1 16.3030 186.12 162.98  
## - Channel1 1 19.7022 189.52 166.87  
##   
## Step: AIC=143.27  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel38 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel43 + Channel44 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel49 + Channel50 + Channel51 +   
## Channel52 + Channel53 + Channel54 + Channel55 + Channel56 +   
## Channel57 + Channel58 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel67 +   
## Channel68 + Channel69 + Channel71 + Channel72 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel77 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel82 + Channel83 +   
## Channel84 + Channel85 + Channel86 + Channel87 + Channel88 +   
## Channel90 + Channel91 + Channel92 + Channel93 + Channel94 +   
## Channel95 + Channel96 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel57 1 0.0015 169.82 141.28  
## - Channel38 1 0.0041 169.82 141.28  
## - Channel58 1 0.0065 169.82 141.28  
## - Channel53 1 0.0249 169.84 141.31  
## - Channel9 1 0.0331 169.85 141.32  
## - Channel77 1 0.0349 169.85 141.32  
## - Channel91 1 0.0600 169.87 141.35  
## - Channel33 1 0.1144 169.93 141.42  
## - Channel93 1 0.1180 169.93 141.42  
## - Channel72 1 0.1287 169.94 141.44  
## - Channel49 1 0.1368 169.95 141.45  
## - Channel97 1 0.1530 169.97 141.47  
## - Channel82 1 0.1697 169.98 141.49  
## - Channel48 1 0.1872 170.00 141.51  
## - Channel96 1 0.2371 170.05 141.57  
## - Channel86 1 0.2521 170.07 141.59  
## - Channel17 1 0.2805 170.09 141.63  
## - Channel10 1 0.4083 170.22 141.79  
## - Channel76 1 0.4542 170.27 141.85  
## - Channel90 1 0.4761 170.29 141.88  
## - Channel84 1 0.4762 170.29 141.88  
## - Channel23 1 0.5116 170.33 141.92  
## - Channel95 1 0.5351 170.35 141.95  
## - Channel83 1 0.5598 170.37 141.98  
## - Channel3 1 0.6934 170.51 142.15  
## - Channel62 1 0.7033 170.52 142.16  
## - Channel94 1 0.7403 170.56 142.21  
## - Channel35 1 0.7524 170.57 142.22  
## - Channel43 1 0.7565 170.57 142.23  
## - Channel34 1 0.7629 170.58 142.24  
## - Channel92 1 0.7787 170.59 142.26  
## - Channel6 1 0.8155 170.63 142.31  
## - Channel20 1 1.0749 170.89 142.63  
## - Channel26 1 1.0984 170.91 142.66  
## - Channel18 1 1.1075 170.92 142.67  
## - Channel65 1 1.1381 170.95 142.71  
## - Channel16 1 1.1703 170.99 142.75  
## - Channel44 1 1.2055 171.02 142.79  
## - Channel98 1 1.3440 171.16 142.97  
## - Channel21 1 1.4127 171.23 143.06  
## - Channel32 1 1.4755 171.29 143.13  
## - Channel7 1 1.5044 171.32 143.17  
## - Channel8 1 1.5141 171.33 143.18  
## - Channel11 1 1.5395 171.35 143.22  
## - Channel19 1 1.5792 171.39 143.26  
## <none> 169.81 143.28  
## - Channel15 1 1.6128 171.43 143.31  
## - Channel27 1 1.6552 171.47 143.36  
## - Channel88 1 1.6750 171.49 143.38  
## - Channel75 1 1.7991 171.61 143.54  
## - Channel78 1 1.8316 171.65 143.58  
## - Channel31 1 1.8614 171.68 143.62  
## - Channel24 1 1.8920 171.71 143.66  
## - Channel85 1 2.6342 172.45 144.58  
## - Channel50 1 2.6895 172.50 144.65  
## - Channel47 1 2.9188 172.73 144.94  
## - Channel5 1 3.0962 172.91 145.16  
## - Channel37 1 3.1160 172.93 145.18  
## - Channel40 1 3.3270 173.14 145.45  
## - Channel46 1 3.3334 173.15 145.45  
## - Channel14 1 3.3681 173.18 145.50  
## - Channel52 1 3.3878 173.20 145.52  
## - Channel4 1 3.4085 173.22 145.55  
## - Channel87 1 3.4246 173.24 145.57  
## - Channel41 1 3.4554 173.27 145.61  
## - Channel42 1 3.8195 173.63 146.06  
## - Channel22 1 4.0845 173.90 146.38  
## - Channel39 1 4.5839 174.40 147.00  
## - Channel13 1 4.6004 174.41 147.02  
## - Channel59 1 4.8143 174.63 147.28  
## - Channel81 1 4.8598 174.67 147.34  
## - Channel36 1 4.9707 174.78 147.48  
## - Channel30 1 5.4187 175.23 148.03  
## - Channel61 1 5.4749 175.29 148.10  
## - Channel67 1 5.5479 175.36 148.19  
## - Channel12 1 5.7126 175.53 148.39  
## - Channel51 1 5.8368 175.65 148.54  
## - Channel71 1 5.9834 175.80 148.72  
## - Channel79 1 6.2609 176.07 149.06  
## - Channel25 1 6.3501 176.16 149.17  
## - Channel74 1 6.8619 176.68 149.79  
## - Channel56 1 7.0401 176.85 150.01  
## - Channel2 1 7.3936 177.21 150.44  
## - Channel63 1 7.8448 177.66 150.98  
## - Channel54 1 8.0430 177.86 151.22  
## - Channel45 1 10.3261 180.14 153.97  
## - Channel64 1 11.6989 181.51 155.60  
## - Channel68 1 12.3019 182.12 156.31  
## - Channel99 1 12.7470 182.56 156.84  
## - Channel73 1 13.0319 182.85 157.17  
## - Channel28 1 13.5943 183.41 157.83  
## - Channel60 1 13.6531 183.47 157.90  
## - Channel69 1 14.3779 184.19 158.75  
## - Channel55 1 15.1630 184.98 159.66  
## - Channel29 1 16.0935 185.91 160.74  
## - Channel80 1 16.4040 186.22 161.10  
## - Channel1 1 19.7015 189.52 164.88  
##   
## Step: AIC=141.28  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel38 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel43 + Channel44 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel49 + Channel50 + Channel51 +   
## Channel52 + Channel53 + Channel54 + Channel55 + Channel56 +   
## Channel58 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel72 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel77 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel82 + Channel83 + Channel84 +   
## Channel85 + Channel86 + Channel87 + Channel88 + Channel90 +   
## Channel91 + Channel92 + Channel93 + Channel94 + Channel95 +   
## Channel96 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel38 1 0.0042 169.82 139.28  
## - Channel58 1 0.0051 169.82 139.28  
## - Channel53 1 0.0242 169.84 139.31  
## - Channel9 1 0.0337 169.85 139.32  
## - Channel77 1 0.0351 169.85 139.32  
## - Channel91 1 0.0591 169.88 139.35  
## - Channel33 1 0.1129 169.93 139.42  
## - Channel72 1 0.1298 169.95 139.44  
## - Channel93 1 0.1371 169.95 139.45  
## - Channel49 1 0.1425 169.96 139.46  
## - Channel97 1 0.1540 169.97 139.47  
## - Channel82 1 0.1712 169.99 139.49  
## - Channel48 1 0.2051 170.02 139.54  
## - Channel96 1 0.2356 170.05 139.57  
## - Channel86 1 0.2574 170.07 139.60  
## - Channel17 1 0.2795 170.09 139.63  
## - Channel10 1 0.4069 170.22 139.79  
## - Channel76 1 0.4527 170.27 139.85  
## - Channel90 1 0.4752 170.29 139.88  
## - Channel23 1 0.5145 170.33 139.93  
## - Channel84 1 0.5395 170.35 139.96  
## - Channel95 1 0.5504 170.37 139.97  
## - Channel83 1 0.5973 170.41 140.03  
## - Channel3 1 0.6991 170.51 140.16  
## - Channel62 1 0.7126 170.53 140.18  
## - Channel35 1 0.7518 170.57 140.23  
## - Channel34 1 0.7771 170.59 140.26  
## - Channel43 1 0.7844 170.60 140.27  
## - Channel94 1 0.7862 170.60 140.27  
## - Channel6 1 0.8153 170.63 140.31  
## - Channel92 1 0.8262 170.64 140.32  
## - Channel18 1 1.1109 170.93 140.68  
## - Channel26 1 1.1309 170.95 140.70  
## - Channel20 1 1.1471 170.96 140.72  
## - Channel65 1 1.1549 170.97 140.73  
## - Channel16 1 1.1780 170.99 140.76  
## - Channel44 1 1.2045 171.02 140.80  
## - Channel98 1 1.3440 171.16 140.97  
## - Channel21 1 1.4483 171.26 141.10  
## - Channel32 1 1.4787 171.29 141.14  
## - Channel7 1 1.5029 171.32 141.17  
## - Channel8 1 1.5173 171.33 141.19  
## - Channel11 1 1.5397 171.36 141.22  
## <none> 169.82 141.28  
## - Channel15 1 1.6208 171.44 141.32  
## - Channel27 1 1.6565 171.47 141.36  
## - Channel88 1 1.6917 171.51 141.41  
## - Channel19 1 1.6926 171.51 141.41  
## - Channel75 1 1.8006 171.62 141.54  
## - Channel78 1 1.8416 171.66 141.60  
## - Channel31 1 1.8601 171.68 141.62  
## - Channel24 1 1.9456 171.76 141.73  
## - Channel85 1 2.6940 172.51 142.66  
## - Channel50 1 2.7451 172.56 142.72  
## - Channel47 1 3.0347 172.85 143.09  
## - Channel5 1 3.0978 172.91 143.16  
## - Channel37 1 3.1745 172.99 143.26  
## - Channel40 1 3.3406 173.16 143.47  
## - Channel14 1 3.3673 173.18 143.50  
## - Channel46 1 3.3849 173.20 143.52  
## - Channel52 1 3.4284 173.24 143.57  
## - Channel4 1 3.4326 173.25 143.58  
## - Channel41 1 3.4575 173.27 143.61  
## - Channel87 1 3.5041 173.32 143.67  
## - Channel42 1 3.9198 173.74 144.18  
## - Channel22 1 4.1757 173.99 144.50  
## - Channel39 1 4.5831 174.40 145.00  
## - Channel13 1 4.6074 174.42 145.03  
## - Channel59 1 4.8334 174.65 145.31  
## - Channel81 1 4.9351 174.75 145.44  
## - Channel36 1 5.0967 174.91 145.63  
## - Channel30 1 5.4212 175.24 146.03  
## - Channel67 1 5.5520 175.37 146.19  
## - Channel61 1 5.5908 175.41 146.24  
## - Channel12 1 5.7138 175.53 146.39  
## - Channel51 1 5.8499 175.67 146.56  
## - Channel71 1 5.9872 175.80 146.73  
## - Channel79 1 6.3268 176.14 147.14  
## - Channel25 1 6.5819 176.40 147.45  
## - Channel74 1 6.8608 176.68 147.79  
## - Channel2 1 7.5567 177.37 148.64  
## - Channel54 1 8.0968 177.91 149.29  
## - Channel63 1 8.6758 178.49 149.99  
## - Channel45 1 10.4067 180.22 152.06  
## - Channel56 1 11.7503 181.57 153.66  
## - Channel68 1 12.3227 182.14 154.34  
## - Channel64 1 12.3989 182.22 154.43  
## - Channel99 1 12.7711 182.59 154.87  
## - Channel73 1 13.0374 182.85 155.18  
## - Channel28 1 13.6276 183.44 155.87  
## - Channel60 1 13.8186 183.63 156.10  
## - Channel69 1 14.3868 184.20 156.76  
## - Channel55 1 15.9629 185.78 158.59  
## - Channel29 1 16.1061 185.92 158.76  
## - Channel80 1 16.4095 186.22 159.11  
## - Channel1 1 19.8849 189.70 163.08  
##   
## Step: AIC=139.28  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel49 + Channel50 + Channel51 + Channel52 +   
## Channel53 + Channel54 + Channel55 + Channel56 + Channel58 +   
## Channel59 + Channel60 + Channel61 + Channel62 + Channel63 +   
## Channel64 + Channel65 + Channel67 + Channel68 + Channel69 +   
## Channel71 + Channel72 + Channel73 + Channel74 + Channel75 +   
## Channel76 + Channel77 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel82 + Channel83 + Channel84 + Channel85 +   
## Channel86 + Channel87 + Channel88 + Channel90 + Channel91 +   
## Channel92 + Channel93 + Channel94 + Channel95 + Channel96 +   
## Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel58 1 0.0071 169.83 137.29  
## - Channel53 1 0.0239 169.84 137.31  
## - Channel77 1 0.0330 169.85 137.32  
## - Channel9 1 0.0333 169.85 137.32  
## - Channel91 1 0.0577 169.88 137.35  
## - Channel33 1 0.1117 169.93 137.42  
## - Channel72 1 0.1256 169.95 137.44  
## - Channel49 1 0.1391 169.96 137.46  
## - Channel93 1 0.1435 169.96 137.46  
## - Channel97 1 0.1633 169.98 137.49  
## - Channel82 1 0.1770 170.00 137.51  
## - Channel96 1 0.2314 170.05 137.57  
## - Channel48 1 0.2402 170.06 137.59  
## - Channel86 1 0.2532 170.07 137.60  
## - Channel17 1 0.2878 170.11 137.65  
## - Channel10 1 0.4123 170.23 137.80  
## - Channel76 1 0.4565 170.28 137.86  
## - Channel90 1 0.4712 170.29 137.88  
## - Channel23 1 0.5104 170.33 137.93  
## - Channel95 1 0.5476 170.37 137.97  
## - Channel84 1 0.5881 170.41 138.03  
## - Channel83 1 0.5948 170.41 138.03  
## - Channel3 1 0.7004 170.52 138.17  
## - Channel62 1 0.7154 170.54 138.19  
## - Channel35 1 0.7521 170.57 138.23  
## - Channel34 1 0.7731 170.59 138.26  
## - Channel94 1 0.7820 170.60 138.27  
## - Channel43 1 0.8052 170.62 138.30  
## - Channel6 1 0.8139 170.63 138.31  
## - Channel92 1 0.8310 170.65 138.33  
## - Channel18 1 1.1152 170.94 138.69  
## - Channel26 1 1.1319 170.95 138.71  
## - Channel65 1 1.1635 170.98 138.75  
## - Channel20 1 1.1743 170.99 138.76  
## - Channel16 1 1.2187 171.04 138.82  
## - Channel44 1 1.2311 171.05 138.84  
## - Channel98 1 1.3436 171.16 138.98  
## - Channel21 1 1.4498 171.27 139.11  
## - Channel32 1 1.4777 171.30 139.15  
## - Channel7 1 1.5194 171.34 139.20  
## - Channel11 1 1.5357 171.36 139.22  
## - Channel8 1 1.5471 171.37 139.23  
## <none> 169.82 139.28  
## - Channel15 1 1.6189 171.44 139.32  
## - Channel27 1 1.6525 171.47 139.36  
## - Channel88 1 1.6878 171.51 139.41  
## - Channel19 1 1.7118 171.53 139.44  
## - Channel75 1 1.7968 171.62 139.54  
## - Channel78 1 1.8407 171.66 139.60  
## - Channel31 1 1.8602 171.68 139.62  
## - Channel24 1 1.9686 171.79 139.76  
## - Channel50 1 2.7791 172.60 140.77  
## - Channel85 1 2.9324 172.75 140.96  
## - Channel47 1 3.0722 172.89 141.14  
## - Channel5 1 3.1066 172.93 141.18  
## - Channel14 1 3.3731 173.19 141.51  
## - Channel46 1 3.3812 173.20 141.52  
## - Channel52 1 3.4305 173.25 141.58  
## - Channel4 1 3.4454 173.27 141.60  
## - Channel87 1 3.5017 173.32 141.67  
## - Channel41 1 3.5091 173.33 141.68  
## - Channel40 1 3.5692 173.39 141.75  
## - Channel42 1 4.0307 173.85 142.32  
## - Channel22 1 4.2078 174.03 142.54  
## - Channel13 1 4.6032 174.42 143.03  
## - Channel59 1 4.9062 174.73 143.41  
## - Channel81 1 4.9487 174.77 143.46  
## - Channel37 1 4.9499 174.77 143.46  
## - Channel36 1 5.0949 174.91 143.64  
## - Channel30 1 5.4189 175.24 144.03  
## - Channel67 1 5.5547 175.38 144.20  
## - Channel61 1 5.6244 175.44 144.29  
## - Channel12 1 5.7100 175.53 144.39  
## - Channel51 1 5.8768 175.70 144.60  
## - Channel71 1 5.9983 175.82 144.75  
## - Channel79 1 6.3659 176.19 145.19  
## - Channel25 1 6.6052 176.43 145.49  
## - Channel74 1 7.0477 176.87 146.02  
## - Channel2 1 7.6550 177.47 146.76  
## - Channel54 1 8.1184 177.94 147.32  
## - Channel39 1 8.5516 178.37 147.84  
## - Channel63 1 8.7131 178.53 148.04  
## - Channel45 1 10.4603 180.28 150.13  
## - Channel56 1 11.8577 181.68 151.79  
## - Channel68 1 12.3192 182.14 152.34  
## - Channel64 1 12.4057 182.23 152.44  
## - Channel99 1 12.8950 182.72 153.02  
## - Channel28 1 13.8025 183.62 154.08  
## - Channel60 1 13.8150 183.63 154.10  
## - Channel73 1 13.9243 183.74 154.22  
## - Channel69 1 14.3825 184.20 154.76  
## - Channel29 1 16.1366 185.96 156.80  
## - Channel55 1 16.1734 185.99 156.84  
## - Channel80 1 16.4202 186.24 157.13  
## - Channel1 1 20.3813 190.20 161.65  
##   
## Step: AIC=137.29  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel49 + Channel50 + Channel51 + Channel52 +   
## Channel53 + Channel54 + Channel55 + Channel56 + Channel59 +   
## Channel60 + Channel61 + Channel62 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel72 + Channel73 + Channel74 + Channel75 + Channel76 +   
## Channel77 + Channel78 + Channel79 + Channel80 + Channel81 +   
## Channel82 + Channel83 + Channel84 + Channel85 + Channel86 +   
## Channel87 + Channel88 + Channel90 + Channel91 + Channel92 +   
## Channel93 + Channel94 + Channel95 + Channel96 + Channel97 +   
## Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel53 1 0.0251 169.85 135.32  
## - Channel77 1 0.0340 169.86 135.33  
## - Channel9 1 0.0402 169.87 135.34  
## - Channel91 1 0.0543 169.88 135.36  
## - Channel33 1 0.1081 169.94 135.43  
## - Channel72 1 0.1272 169.95 135.45  
## - Channel49 1 0.1353 169.96 135.46  
## - Channel97 1 0.1581 169.99 135.49  
## - Channel93 1 0.1668 169.99 135.50  
## - Channel82 1 0.1798 170.01 135.52  
## - Channel96 1 0.2338 170.06 135.59  
## - Channel86 1 0.2475 170.07 135.60  
## - Channel48 1 0.2571 170.08 135.62  
## - Channel17 1 0.2948 170.12 135.66  
## - Channel10 1 0.4053 170.23 135.80  
## - Channel90 1 0.4648 170.29 135.88  
## - Channel76 1 0.4658 170.29 135.88  
## - Channel23 1 0.5041 170.33 135.93  
## - Channel95 1 0.5406 170.37 135.97  
## - Channel84 1 0.5852 170.41 136.03  
## - Channel83 1 0.6113 170.44 136.06  
## - Channel3 1 0.7264 170.55 136.21  
## - Channel35 1 0.7535 170.58 136.24  
## - Channel62 1 0.7572 170.59 136.25  
## - Channel94 1 0.7807 170.61 136.28  
## - Channel34 1 0.7952 170.62 136.29  
## - Channel43 1 0.8003 170.63 136.30  
## - Channel6 1 0.8076 170.63 136.31  
## - Channel92 1 0.8847 170.71 136.41  
## - Channel18 1 1.1108 170.94 136.69  
## - Channel26 1 1.1258 170.95 136.71  
## - Channel20 1 1.1683 171.00 136.76  
## - Channel16 1 1.2483 171.08 136.87  
## - Channel44 1 1.2483 171.08 136.87  
## - Channel65 1 1.3172 171.14 136.95  
## - Channel98 1 1.3968 171.22 137.05  
## - Channel21 1 1.4467 171.27 137.12  
## - Channel32 1 1.4736 171.30 137.15  
## - Channel7 1 1.5133 171.34 137.20  
## - Channel11 1 1.5349 171.36 137.22  
## - Channel8 1 1.5402 171.37 137.23  
## <none> 169.83 137.29  
## - Channel15 1 1.6138 171.44 137.32  
## - Channel88 1 1.6837 171.51 137.41  
## - Channel27 1 1.6862 171.51 137.41  
## - Channel19 1 1.7050 171.53 137.44  
## - Channel75 1 1.7977 171.62 137.56  
## - Channel78 1 1.8494 171.68 137.62  
## - Channel31 1 1.8561 171.68 137.63  
## - Channel24 1 2.0341 171.86 137.85  
## - Channel50 1 2.7774 172.60 138.78  
## - Channel85 1 2.9711 172.80 139.02  
## - Channel5 1 3.1020 172.93 139.18  
## - Channel47 1 3.2333 173.06 139.35  
## - Channel14 1 3.3686 173.20 139.51  
## - Channel46 1 3.4216 173.25 139.58  
## - Channel52 1 3.4357 173.26 139.60  
## - Channel4 1 3.4398 173.27 139.60  
## - Channel87 1 3.4966 173.32 139.67  
## - Channel41 1 3.5048 173.33 139.68  
## - Channel40 1 3.5621 173.39 139.75  
## - Channel42 1 4.0246 173.85 140.33  
## - Channel22 1 4.2117 174.04 140.56  
## - Channel13 1 4.5973 174.43 141.03  
## - Channel81 1 5.1533 174.98 141.72  
## - Channel36 1 5.3428 175.17 141.95  
## - Channel30 1 5.4139 175.24 142.04  
## - Channel37 1 5.4416 175.27 142.07  
## - Channel67 1 5.5480 175.38 142.20  
## - Channel61 1 5.6174 175.44 142.29  
## - Channel12 1 5.7029 175.53 142.39  
## - Channel51 1 5.9094 175.74 142.65  
## - Channel71 1 6.0144 175.84 142.77  
## - Channel79 1 6.3632 176.19 143.20  
## - Channel25 1 6.6070 176.43 143.50  
## - Channel74 1 7.0440 176.87 144.03  
## - Channel2 1 7.6548 177.48 144.77  
## - Channel54 1 8.1124 177.94 145.32  
## - Channel39 1 8.6410 178.47 145.96  
## - Channel63 1 8.7465 178.57 146.09  
## - Channel45 1 10.9196 180.75 148.69  
## - Channel68 1 12.3541 182.18 150.39  
## - Channel59 1 12.5092 182.34 150.57  
## - Channel56 1 12.8664 182.69 150.99  
## - Channel64 1 13.1018 182.93 151.27  
## - Channel99 1 13.3250 183.15 151.53  
## - Channel28 1 13.8837 183.71 152.19  
## - Channel73 1 13.9261 183.75 152.24  
## - Channel69 1 14.4332 184.26 152.83  
## - Channel29 1 16.1605 185.99 154.83  
## - Channel55 1 16.1690 186.00 154.84  
## - Channel60 1 16.7868 186.61 155.56  
## - Channel80 1 17.0894 186.92 155.91  
## - Channel1 1 20.5636 190.39 159.87  
##   
## Step: AIC=135.32  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel9 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel49 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel72 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel77 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel82 +   
## Channel83 + Channel84 + Channel85 + Channel86 + Channel87 +   
## Channel88 + Channel90 + Channel91 + Channel92 + Channel93 +   
## Channel94 + Channel95 + Channel96 + Channel97 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel9 1 0.0377 169.89 133.37  
## - Channel77 1 0.0409 169.89 133.37  
## - Channel91 1 0.0466 169.90 133.38  
## - Channel33 1 0.1111 169.96 133.46  
## - Channel49 1 0.1282 169.98 133.49  
## - Channel72 1 0.1619 170.01 133.53  
## - Channel97 1 0.1688 170.02 133.54  
## - Channel82 1 0.1746 170.03 133.54  
## - Channel93 1 0.1747 170.03 133.54  
## - Channel96 1 0.2202 170.07 133.60  
## - Channel86 1 0.2355 170.09 133.62  
## - Channel48 1 0.2891 170.14 133.69  
## - Channel17 1 0.2947 170.15 133.70  
## - Channel90 1 0.4423 170.29 133.88  
## - Channel10 1 0.4627 170.31 133.91  
## - Channel76 1 0.4738 170.33 133.92  
## - Channel95 1 0.5171 170.37 133.98  
## - Channel23 1 0.5928 170.44 134.07  
## - Channel83 1 0.6012 170.45 134.08  
## - Channel84 1 0.6261 170.48 134.11  
## - Channel35 1 0.7549 170.61 134.28  
## - Channel94 1 0.7609 170.61 134.28  
## - Channel34 1 0.7730 170.62 134.30  
## - Channel3 1 0.7910 170.64 134.32  
## - Channel62 1 0.7933 170.65 134.32  
## - Channel43 1 0.8042 170.66 134.34  
## - Channel6 1 0.9189 170.77 134.48  
## - Channel92 1 0.9254 170.78 134.49  
## - Channel18 1 1.1327 170.99 134.75  
## - Channel26 1 1.1548 171.01 134.78  
## - Channel20 1 1.1699 171.02 134.80  
## - Channel16 1 1.2399 171.09 134.89  
## - Channel44 1 1.2446 171.10 134.89  
## - Channel65 1 1.3430 171.19 135.02  
## - Channel98 1 1.3829 171.24 135.07  
## - Channel21 1 1.4540 171.31 135.16  
## - Channel32 1 1.4677 171.32 135.17  
## - Channel8 1 1.5690 171.42 135.30  
## <none> 169.85 135.32  
## - Channel7 1 1.6639 171.52 135.42  
## - Channel88 1 1.6664 171.52 135.42  
## - Channel27 1 1.6703 171.52 135.43  
## - Channel11 1 1.6781 171.53 135.44  
## - Channel19 1 1.6890 171.54 135.45  
## - Channel15 1 1.7727 171.62 135.56  
## - Channel75 1 1.7727 171.62 135.56  
## - Channel78 1 1.8429 171.69 135.64  
## - Channel31 1 1.8612 171.71 135.67  
## - Channel24 1 2.0570 171.91 135.91  
## - Channel85 1 3.0926 172.94 137.20  
## - Channel47 1 3.2381 173.09 137.38  
## - Channel5 1 3.3153 173.17 137.48  
## - Channel50 1 3.3216 173.17 137.49  
## - Channel87 1 3.4744 173.33 137.68  
## - Channel46 1 3.5740 173.43 137.80  
## - Channel41 1 3.5757 173.43 137.80  
## - Channel4 1 3.5916 173.44 137.82  
## - Channel40 1 3.6663 173.52 137.91  
## - Channel14 1 3.7389 173.59 138.00  
## - Channel42 1 4.0650 173.92 138.41  
## - Channel22 1 4.3559 174.21 138.77  
## - Channel13 1 4.9588 174.81 139.51  
## - Channel81 1 5.2480 175.10 139.87  
## - Channel36 1 5.3518 175.20 139.99  
## - Channel37 1 5.4337 175.29 140.09  
## - Channel30 1 5.4714 175.32 140.14  
## - Channel67 1 5.5233 175.38 140.20  
## - Channel61 1 5.6168 175.47 140.32  
## - Channel12 1 6.0905 175.94 140.90  
## - Channel71 1 6.1437 176.00 140.96  
## - Channel79 1 6.3874 176.24 141.26  
## - Channel25 1 6.5913 176.44 141.51  
## - Channel74 1 7.0240 176.88 142.03  
## - Channel2 1 7.6516 177.50 142.80  
## - Channel63 1 8.7217 178.57 144.09  
## - Channel39 1 8.8837 178.74 144.28  
## - Channel45 1 10.9559 180.81 146.76  
## - Channel51 1 12.4066 182.26 148.48  
## - Channel68 1 12.4103 182.26 148.48  
## - Channel59 1 12.4841 182.34 148.57  
## - Channel64 1 13.1323 182.99 149.33  
## - Channel99 1 13.3453 183.20 149.59  
## - Channel56 1 13.5574 183.41 149.83  
## - Channel28 1 13.8614 183.71 150.19  
## - Channel73 1 13.9809 183.83 150.33  
## - Channel69 1 14.5346 184.39 150.98  
## - Channel29 1 16.2358 186.09 152.95  
## - Channel60 1 16.7809 186.63 153.58  
## - Channel80 1 17.1900 187.04 154.05  
## - Channel1 1 20.5713 190.42 157.90  
## - Channel55 1 21.9610 191.81 159.47  
## - Channel52 1 27.0521 196.90 165.10  
## - Channel54 1 31.5950 201.45 170.00  
##   
## Step: AIC=133.37  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel49 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel72 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel77 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel82 +   
## Channel83 + Channel84 + Channel85 + Channel86 + Channel87 +   
## Channel88 + Channel90 + Channel91 + Channel92 + Channel93 +   
## Channel94 + Channel95 + Channel96 + Channel97 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel91 1 0.032 169.92 131.41  
## - Channel77 1 0.053 169.94 131.44  
## - Channel33 1 0.112 170.00 131.51  
## - Channel49 1 0.123 170.01 131.53  
## - Channel72 1 0.163 170.05 131.58  
## - Channel97 1 0.164 170.05 131.58  
## - Channel93 1 0.176 170.07 131.59  
## - Channel82 1 0.178 170.07 131.60  
## - Channel96 1 0.202 170.09 131.63  
## - Channel86 1 0.241 170.13 131.68  
## - Channel48 1 0.293 170.18 131.74  
## - Channel17 1 0.319 170.21 131.77  
## - Channel90 1 0.414 170.30 131.89  
## - Channel95 1 0.494 170.38 132.00  
## - Channel76 1 0.528 170.42 132.04  
## - Channel23 1 0.583 170.47 132.11  
## - Channel84 1 0.602 170.49 132.13  
## - Channel83 1 0.645 170.53 132.19  
## - Channel35 1 0.740 170.63 132.31  
## - Channel3 1 0.761 170.65 132.33  
## - Channel34 1 0.768 170.66 132.34  
## - Channel94 1 0.775 170.66 132.35  
## - Channel43 1 0.783 170.67 132.36  
## - Channel10 1 0.783 170.67 132.36  
## - Channel62 1 0.814 170.70 132.40  
## - Channel6 1 0.995 170.88 132.63  
## - Channel92 1 1.017 170.91 132.65  
## - Channel18 1 1.095 170.99 132.75  
## - Channel26 1 1.131 171.02 132.80  
## - Channel20 1 1.167 171.06 132.84  
## - Channel44 1 1.207 171.10 132.89  
## - Channel16 1 1.211 171.10 132.90  
## - Channel65 1 1.353 171.24 133.08  
## - Channel98 1 1.416 171.31 133.16  
## - Channel21 1 1.435 171.33 133.18  
## - Channel32 1 1.455 171.34 133.20  
## <none> 169.89 133.37  
## - Channel27 1 1.633 171.52 133.43  
## - Channel19 1 1.685 171.57 133.49  
## - Channel88 1 1.707 171.60 133.52  
## - Channel75 1 1.762 171.65 133.59  
## - Channel11 1 1.762 171.65 133.59  
## - Channel15 1 1.818 171.71 133.66  
## - Channel31 1 1.832 171.72 133.68  
## - Channel7 1 1.860 171.75 133.71  
## - Channel78 1 1.897 171.79 133.76  
## - Channel24 1 2.027 171.92 133.92  
## - Channel8 1 2.275 172.16 134.23  
## - Channel85 1 3.060 172.95 135.21  
## - Channel47 1 3.296 173.19 135.50  
## - Channel50 1 3.339 173.23 135.56  
## - Channel5 1 3.410 173.30 135.64  
## - Channel87 1 3.525 173.41 135.78  
## - Channel46 1 3.560 173.45 135.83  
## - Channel41 1 3.607 173.50 135.89  
## - Channel4 1 3.612 173.50 135.89  
## - Channel40 1 3.668 173.56 135.96  
## - Channel14 1 3.798 173.69 136.12  
## - Channel42 1 4.067 173.96 136.46  
## - Channel22 1 4.322 174.21 136.77  
## - Channel13 1 4.992 174.88 137.60  
## - Channel36 1 5.345 175.24 138.03  
## - Channel81 1 5.370 175.26 138.06  
## - Channel37 1 5.426 175.32 138.13  
## - Channel30 1 5.436 175.33 138.14  
## - Channel67 1 5.516 175.41 138.24  
## - Channel61 1 5.731 175.62 138.50  
## - Channel71 1 6.114 176.00 138.97  
## - Channel12 1 6.136 176.03 139.00  
## - Channel25 1 6.632 176.52 139.60  
## - Channel79 1 6.785 176.68 139.79  
## - Channel74 1 6.990 176.88 140.04  
## - Channel2 1 7.632 177.52 140.82  
## - Channel63 1 8.691 178.58 142.10  
## - Channel39 1 8.846 178.74 142.28  
## - Channel45 1 11.160 181.05 145.05  
## - Channel68 1 12.373 182.26 146.49  
## - Channel59 1 12.489 182.38 146.62  
## - Channel51 1 12.529 182.42 146.67  
## - Channel64 1 13.132 183.02 147.38  
## - Channel99 1 13.317 183.21 147.60  
## - Channel73 1 13.989 183.88 148.38  
## - Channel56 1 14.213 184.10 148.65  
## - Channel28 1 14.384 184.27 148.84  
## - Channel69 1 14.524 184.41 149.01  
## - Channel29 1 16.466 186.36 151.26  
## - Channel60 1 16.843 186.73 151.69  
## - Channel80 1 17.853 187.74 152.85  
## - Channel1 1 20.978 190.87 156.40  
## - Channel55 1 23.162 193.05 158.85  
## - Channel52 1 27.396 197.29 163.51  
## - Channel54 1 33.059 202.95 169.60  
##   
## Step: AIC=131.41  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel49 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel72 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel77 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel82 +   
## Channel83 + Channel84 + Channel85 + Channel86 + Channel87 +   
## Channel88 + Channel90 + Channel92 + Channel93 + Channel94 +   
## Channel95 + Channel96 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel77 1 0.055 169.98 129.48  
## - Channel49 1 0.102 170.02 129.54  
## - Channel33 1 0.123 170.04 129.57  
## - Channel82 1 0.155 170.08 129.61  
## - Channel72 1 0.179 170.10 129.64  
## - Channel96 1 0.194 170.12 129.66  
## - Channel97 1 0.213 170.13 129.68  
## - Channel93 1 0.248 170.17 129.72  
## - Channel86 1 0.255 170.18 129.73  
## - Channel17 1 0.345 170.27 129.85  
## - Channel48 1 0.350 170.27 129.85  
## - Channel76 1 0.518 170.44 130.06  
## - Channel23 1 0.552 170.47 130.11  
## - Channel95 1 0.563 170.49 130.12  
## - Channel83 1 0.613 170.53 130.19  
## - Channel84 1 0.615 170.54 130.19  
## - Channel35 1 0.747 170.67 130.35  
## - Channel34 1 0.749 170.67 130.36  
## - Channel43 1 0.753 170.68 130.36  
## - Channel10 1 0.760 170.68 130.37  
## - Channel3 1 0.776 170.70 130.39  
## - Channel62 1 0.795 170.72 130.41  
## - Channel94 1 0.835 170.76 130.46  
## - Channel90 1 0.846 170.77 130.48  
## - Channel26 1 1.101 171.02 130.80  
## - Channel18 1 1.142 171.06 130.85  
## - Channel6 1 1.170 171.09 130.89  
## - Channel44 1 1.179 171.10 130.90  
## - Channel20 1 1.208 171.13 130.93  
## - Channel16 1 1.364 171.29 131.13  
## - Channel98 1 1.386 171.31 131.16  
## - Channel65 1 1.396 171.32 131.17  
## - Channel21 1 1.405 171.33 131.18  
## - Channel32 1 1.518 171.44 131.32  
## <none> 169.92 131.41  
## - Channel27 1 1.603 171.53 131.43  
## - Channel19 1 1.683 171.60 131.53  
## - Channel88 1 1.708 171.63 131.56  
## - Channel75 1 1.731 171.65 131.59  
## - Channel11 1 1.776 171.70 131.65  
## - Channel15 1 1.789 171.71 131.66  
## - Channel78 1 1.903 171.82 131.81  
## - Channel31 1 1.925 171.85 131.83  
## - Channel7 1 2.123 172.04 132.08  
## - Channel24 1 2.162 172.08 132.13  
## - Channel8 1 2.477 172.40 132.52  
## - Channel85 1 3.029 172.95 133.21  
## - Channel50 1 3.321 173.24 133.57  
## - Channel47 1 3.385 173.31 133.65  
## - Channel87 1 3.499 173.42 133.79  
## - Channel46 1 3.528 173.45 133.83  
## - Channel41 1 3.575 173.50 133.89  
## - Channel40 1 3.650 173.57 133.98  
## - Channel5 1 3.742 173.66 134.09  
## - Channel4 1 3.814 173.74 134.18  
## - Channel14 1 3.826 173.75 134.20  
## - Channel42 1 4.091 174.01 134.53  
## - Channel92 1 4.151 174.07 134.60  
## - Channel22 1 4.321 174.24 134.81  
## - Channel13 1 5.125 175.05 135.80  
## - Channel36 1 5.314 175.24 136.03  
## - Channel37 1 5.398 175.32 136.13  
## - Channel81 1 5.542 175.46 136.31  
## - Channel67 1 5.587 175.51 136.37  
## - Channel61 1 5.702 175.62 136.51  
## - Channel30 1 5.734 175.66 136.55  
## - Channel71 1 6.088 176.01 136.98  
## - Channel12 1 6.291 176.21 137.23  
## - Channel25 1 6.609 176.53 137.62  
## - Channel79 1 6.810 176.73 137.86  
## - Channel74 1 6.959 176.88 138.04  
## - Channel2 1 7.853 177.78 139.12  
## - Channel39 1 8.826 178.75 140.30  
## - Channel63 1 9.366 179.29 140.95  
## - Channel45 1 11.183 181.10 143.11  
## - Channel59 1 12.460 182.38 144.62  
## - Channel51 1 12.667 182.59 144.87  
## - Channel68 1 12.735 182.66 144.95  
## - Channel99 1 13.458 183.38 145.80  
## - Channel64 1 13.470 183.39 145.81  
## - Channel73 1 14.062 183.98 146.51  
## - Channel56 1 14.189 184.11 146.65  
## - Channel28 1 14.710 184.63 147.26  
## - Channel69 1 15.129 185.05 147.75  
## - Channel29 1 16.737 186.66 149.61  
## - Channel60 1 16.824 186.75 149.71  
## - Channel80 1 18.024 187.95 151.09  
## - Channel1 1 21.506 191.43 155.03  
## - Channel55 1 23.131 193.05 156.85  
## - Channel52 1 28.199 198.12 162.42  
## - Channel54 1 33.137 203.06 167.71  
##   
## Step: AIC=129.48  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel49 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel72 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel82 + Channel83 +   
## Channel84 + Channel85 + Channel86 + Channel87 + Channel88 +   
## Channel90 + Channel92 + Channel93 + Channel94 + Channel95 +   
## Channel96 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel49 1 0.093 170.07 127.60  
## - Channel33 1 0.114 170.09 127.62  
## - Channel72 1 0.156 170.13 127.68  
## - Channel97 1 0.180 170.16 127.71  
## - Channel82 1 0.190 170.17 127.72  
## - Channel96 1 0.226 170.20 127.77  
## - Channel86 1 0.275 170.25 127.83  
## - Channel93 1 0.276 170.25 127.83  
## - Channel17 1 0.316 170.29 127.88  
## - Channel48 1 0.351 170.33 127.92  
## - Channel76 1 0.496 170.47 128.11  
## - Channel23 1 0.517 170.49 128.13  
## - Channel84 1 0.571 170.55 128.20  
## - Channel95 1 0.578 170.56 128.21  
## - Channel10 1 0.710 170.69 128.38  
## - Channel83 1 0.718 170.69 128.39  
## - Channel35 1 0.738 170.72 128.41  
## - Channel62 1 0.756 170.73 128.43  
## - Channel3 1 0.796 170.77 128.49  
## - Channel94 1 0.807 170.78 128.50  
## - Channel43 1 0.815 170.79 128.51  
## - Channel34 1 0.822 170.80 128.52  
## - Channel90 1 0.860 170.84 128.56  
## - Channel26 1 1.058 171.03 128.81  
## - Channel18 1 1.131 171.11 128.91  
## - Channel6 1 1.232 171.21 129.03  
## - Channel20 1 1.344 171.32 129.17  
## - Channel44 1 1.345 171.32 129.18  
## - Channel65 1 1.356 171.33 129.19  
## - Channel21 1 1.359 171.34 129.19  
## - Channel16 1 1.397 171.37 129.24  
## - Channel98 1 1.496 171.47 129.37  
## - Channel32 1 1.586 171.56 129.48  
## <none> 169.98 129.48  
## - Channel88 1 1.689 171.67 129.61  
## - Channel27 1 1.696 171.67 129.62  
## - Channel15 1 1.734 171.71 129.66  
## - Channel11 1 1.743 171.72 129.67  
## - Channel75 1 1.763 171.74 129.70  
## - Channel19 1 1.875 171.85 129.84  
## - Channel31 1 2.093 172.07 130.11  
## - Channel7 1 2.217 172.19 130.27  
## - Channel24 1 2.275 172.25 130.34  
## - Channel8 1 2.710 172.69 130.88  
## - Channel78 1 2.816 172.79 131.01  
## - Channel85 1 2.974 172.95 131.21  
## - Channel50 1 3.270 173.25 131.58  
## - Channel47 1 3.394 173.37 131.73  
## - Channel87 1 3.505 173.48 131.87  
## - Channel40 1 3.641 173.62 132.04  
## - Channel41 1 3.692 173.67 132.10  
## - Channel14 1 3.776 173.75 132.20  
## - Channel46 1 3.858 173.84 132.31  
## - Channel5 1 3.937 173.91 132.40  
## - Channel4 1 4.002 173.98 132.48  
## - Channel92 1 4.249 174.23 132.79  
## - Channel22 1 4.267 174.24 132.81  
## - Channel42 1 4.294 174.27 132.84  
## - Channel13 1 5.072 175.05 133.80  
## - Channel37 1 5.410 175.39 134.22  
## - Channel36 1 5.441 175.42 134.25  
## - Channel81 1 5.494 175.47 134.32  
## - Channel61 1 5.656 175.63 134.52  
## - Channel67 1 5.851 175.83 134.76  
## - Channel30 1 5.974 175.95 134.91  
## - Channel12 1 6.257 176.23 135.25  
## - Channel25 1 6.637 176.61 135.72  
## - Channel79 1 6.849 176.83 135.97  
## - Channel71 1 6.864 176.84 135.99  
## - Channel74 1 7.283 177.26 136.50  
## - Channel2 1 7.860 177.84 137.20  
## - Channel39 1 8.771 178.75 138.30  
## - Channel63 1 10.424 180.40 140.28  
## - Channel51 1 12.703 182.68 142.98  
## - Channel45 1 12.834 182.81 143.13  
## - Channel59 1 13.074 183.05 143.41  
## - Channel99 1 13.525 183.50 143.94  
## - Channel68 1 13.537 183.51 143.96  
## - Channel64 1 13.912 183.89 144.39  
## - Channel73 1 14.238 184.22 144.78  
## - Channel56 1 14.447 184.42 145.02  
## - Channel28 1 14.707 184.68 145.32  
## - Channel69 1 16.416 186.39 147.30  
## - Channel29 1 16.774 186.75 147.71  
## - Channel60 1 17.049 187.03 148.03  
## - Channel80 1 17.969 187.95 149.09  
## - Channel1 1 21.451 191.43 153.03  
## - Channel55 1 23.409 193.38 155.22  
## - Channel52 1 28.155 198.13 160.43  
## - Channel54 1 33.460 203.44 166.12  
##   
## Step: AIC=127.6  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel33 + Channel34 + Channel35 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel43 + Channel44 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel50 + Channel51 + Channel52 + Channel54 +   
## Channel55 + Channel56 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel67 +   
## Channel68 + Channel69 + Channel71 + Channel72 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel82 + Channel83 + Channel84 +   
## Channel85 + Channel86 + Channel87 + Channel88 + Channel90 +   
## Channel92 + Channel93 + Channel94 + Channel95 + Channel96 +   
## Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel33 1 0.114 170.18 125.74  
## - Channel82 1 0.151 170.22 125.79  
## - Channel72 1 0.168 170.24 125.81  
## - Channel96 1 0.193 170.26 125.84  
## - Channel93 1 0.225 170.29 125.88  
## - Channel97 1 0.237 170.31 125.90  
## - Channel86 1 0.287 170.36 125.96  
## - Channel17 1 0.322 170.39 126.00  
## - Channel76 1 0.501 170.57 126.23  
## - Channel23 1 0.515 170.59 126.25  
## - Channel95 1 0.550 170.62 126.29  
## - Channel84 1 0.557 170.63 126.30  
## - Channel83 1 0.667 170.74 126.44  
## - Channel62 1 0.712 170.78 126.50  
## - Channel34 1 0.757 170.83 126.55  
## - Channel90 1 0.782 170.85 126.58  
## - Channel43 1 0.783 170.85 126.58  
## - Channel35 1 0.786 170.86 126.59  
## - Channel10 1 0.810 170.88 126.62  
## - Channel94 1 0.823 170.89 126.64  
## - Channel3 1 0.830 170.90 126.64  
## - Channel26 1 1.131 171.20 127.02  
## - Channel18 1 1.134 171.20 127.03  
## - Channel65 1 1.294 171.36 127.23  
## - Channel44 1 1.309 171.38 127.25  
## - Channel21 1 1.328 171.40 127.27  
## - Channel16 1 1.336 171.41 127.28  
## - Channel6 1 1.364 171.43 127.31  
## - Channel20 1 1.388 171.46 127.34  
## - Channel98 1 1.413 171.48 127.38  
## - Channel48 1 1.540 171.61 127.54  
## - Channel32 1 1.567 171.64 127.57  
## <none> 170.07 127.60  
## - Channel88 1 1.599 171.67 127.61  
## - Channel75 1 1.672 171.74 127.70  
## - Channel27 1 1.696 171.76 127.73  
## - Channel11 1 1.814 171.88 127.88  
## - Channel15 1 1.833 171.90 127.90  
## - Channel19 1 1.851 171.92 127.92  
## - Channel31 1 2.129 172.20 128.27  
## - Channel24 1 2.263 172.33 128.44  
## - Channel7 1 2.375 172.44 128.58  
## - Channel8 1 2.748 172.82 129.04  
## - Channel78 1 2.767 172.84 129.07  
## - Channel85 1 2.907 172.98 129.24  
## - Channel47 1 3.305 173.37 129.74  
## - Channel87 1 3.430 173.50 129.89  
## - Channel40 1 3.578 173.65 130.07  
## - Channel41 1 3.611 173.68 130.12  
## - Channel14 1 3.847 173.92 130.41  
## - Channel4 1 4.087 174.16 130.70  
## - Channel5 1 4.170 174.24 130.81  
## - Channel46 1 4.193 174.26 130.83  
## - Channel42 1 4.219 174.29 130.87  
## - Channel92 1 4.240 174.31 130.89  
## - Channel22 1 4.244 174.31 130.90  
## - Channel13 1 5.091 175.16 131.94  
## - Channel36 1 5.351 175.42 132.26  
## - Channel37 1 5.375 175.44 132.29  
## - Channel81 1 5.597 175.67 132.56  
## - Channel61 1 5.675 175.75 132.66  
## - Channel50 1 5.679 175.75 132.66  
## - Channel67 1 6.168 176.24 133.26  
## - Channel12 1 6.280 176.35 133.39  
## - Channel30 1 6.287 176.36 133.40  
## - Channel25 1 6.750 176.82 133.97  
## - Channel79 1 6.778 176.85 134.00  
## - Channel71 1 6.827 176.90 134.06  
## - Channel74 1 7.216 177.29 134.53  
## - Channel2 1 7.768 177.84 135.20  
## - Channel39 1 8.785 178.85 136.43  
## - Channel63 1 10.366 180.44 138.32  
## - Channel45 1 12.843 182.91 141.25  
## - Channel59 1 13.268 183.34 141.75  
## - Channel99 1 13.460 183.53 141.97  
## - Channel64 1 13.898 183.97 142.49  
## - Channel68 1 14.061 184.13 142.68  
## - Channel51 1 14.075 184.15 142.69  
## - Channel73 1 14.295 184.37 142.95  
## - Channel28 1 14.969 185.04 143.74  
## - Channel56 1 15.166 185.24 143.96  
## - Channel69 1 16.562 186.63 145.58  
## - Channel60 1 17.076 187.15 146.17  
## - Channel29 1 17.722 187.79 146.91  
## - Channel80 1 17.876 187.95 147.09  
## - Channel1 1 21.378 191.45 151.06  
## - Channel55 1 23.795 193.86 153.75  
## - Channel52 1 28.637 198.71 159.06  
## - Channel54 1 33.473 203.54 164.23  
##   
## Step: AIC=125.74  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel35 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel43 +   
## Channel44 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel72 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel82 + Channel83 + Channel84 + Channel85 +   
## Channel86 + Channel87 + Channel88 + Channel90 + Channel92 +   
## Channel93 + Channel94 + Channel95 + Channel96 + Channel97 +   
## Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel96 1 0.184 170.37 123.97  
## - Channel93 1 0.187 170.37 123.98  
## - Channel82 1 0.189 170.37 123.98  
## - Channel72 1 0.196 170.38 123.99  
## - Channel97 1 0.216 170.40 124.02  
## - Channel86 1 0.266 170.45 124.08  
## - Channel17 1 0.352 170.53 124.19  
## - Channel76 1 0.460 170.64 124.32  
## - Channel95 1 0.502 170.69 124.38  
## - Channel84 1 0.520 170.70 124.40  
## - Channel23 1 0.535 170.72 124.42  
## - Channel62 1 0.694 170.88 124.62  
## - Channel35 1 0.729 170.91 124.66  
## - Channel83 1 0.764 170.95 124.70  
## - Channel3 1 0.770 170.95 124.71  
## - Channel43 1 0.803 170.99 124.75  
## - Channel90 1 0.833 171.02 124.79  
## - Channel94 1 0.845 171.03 124.81  
## - Channel10 1 0.928 171.11 124.91  
## - Channel26 1 1.067 171.25 125.09  
## - Channel18 1 1.103 171.29 125.13  
## - Channel20 1 1.281 171.46 125.35  
## - Channel6 1 1.315 171.50 125.40  
## - Channel16 1 1.325 171.51 125.41  
## - Channel65 1 1.341 171.53 125.43  
## - Channel44 1 1.380 171.56 125.48  
## - Channel48 1 1.460 171.64 125.58  
## - Channel21 1 1.510 171.69 125.64  
## - Channel98 1 1.512 171.70 125.64  
## <none> 170.18 125.74  
## - Channel88 1 1.597 171.78 125.75  
## - Channel27 1 1.674 171.86 125.85  
## - Channel75 1 1.746 171.93 125.94  
## - Channel19 1 1.758 171.94 125.95  
## - Channel15 1 1.813 172.00 126.02  
## - Channel11 1 1.902 172.09 126.13  
## - Channel24 1 2.165 172.35 126.46  
## - Channel7 1 2.275 172.46 126.60  
## - Channel34 1 2.276 172.46 126.60  
## - Channel8 1 2.634 172.82 127.04  
## - Channel78 1 2.686 172.87 127.11  
## - Channel31 1 2.739 172.92 127.17  
## - Channel85 1 2.889 173.07 127.36  
## - Channel47 1 3.269 173.45 127.83  
## - Channel87 1 3.374 173.56 127.96  
## - Channel40 1 3.641 173.82 128.29  
## - Channel41 1 3.646 173.83 128.30  
## - Channel14 1 3.800 173.98 128.49  
## - Channel32 1 3.853 174.04 128.56  
## - Channel4 1 3.986 174.17 128.72  
## - Channel5 1 4.078 174.26 128.83  
## - Channel46 1 4.204 174.39 128.99  
## - Channel92 1 4.212 174.40 129.00  
## - Channel42 1 4.237 174.42 129.03  
## - Channel22 1 4.354 174.54 129.17  
## - Channel13 1 5.038 175.22 130.01  
## - Channel37 1 5.283 175.47 130.31  
## - Channel36 1 5.333 175.52 130.38  
## - Channel81 1 5.517 175.70 130.60  
## - Channel61 1 5.591 175.77 130.69  
## - Channel50 1 5.719 175.90 130.85  
## - Channel67 1 6.177 176.36 131.41  
## - Channel12 1 6.251 176.43 131.50  
## - Channel25 1 6.693 176.88 132.03  
## - Channel79 1 6.702 176.89 132.05  
## - Channel71 1 6.880 177.06 132.26  
## - Channel30 1 7.319 177.50 132.79  
## - Channel2 1 8.094 178.28 133.73  
## - Channel74 1 8.212 178.40 133.87  
## - Channel39 1 8.844 179.03 134.63  
## - Channel63 1 10.309 180.49 136.39  
## - Channel45 1 13.090 183.27 139.67  
## - Channel59 1 13.724 183.91 140.42  
## - Channel99 1 13.796 183.98 140.50  
## - Channel64 1 13.934 184.12 140.66  
## - Channel68 1 14.429 184.61 141.24  
## - Channel51 1 14.469 184.65 141.28  
## - Channel28 1 14.924 185.11 141.81  
## - Channel73 1 15.311 185.49 142.26  
## - Channel56 1 15.526 185.71 142.51  
## - Channel60 1 17.279 187.46 144.53  
## - Channel69 1 17.465 187.65 144.75  
## - Channel80 1 17.819 188.00 145.15  
## - Channel29 1 18.952 189.13 146.44  
## - Channel1 1 21.650 191.83 149.49  
## - Channel55 1 24.406 194.59 152.56  
## - Channel52 1 29.957 200.14 158.60  
## - Channel54 1 34.649 204.83 163.59  
##   
## Step: AIC=123.97  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel35 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel43 +   
## Channel44 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel72 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel82 + Channel83 + Channel84 + Channel85 +   
## Channel86 + Channel87 + Channel88 + Channel90 + Channel92 +   
## Channel93 + Channel94 + Channel95 + Channel97 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel93 1 0.120 170.49 122.13  
## - Channel72 1 0.228 170.60 122.26  
## - Channel82 1 0.230 170.60 122.26  
## - Channel86 1 0.282 170.65 122.33  
## - Channel95 1 0.327 170.69 122.39  
## - Channel17 1 0.347 170.71 122.41  
## - Channel76 1 0.422 170.79 122.50  
## - Channel35 1 0.588 170.96 122.72  
## - Channel84 1 0.605 170.97 122.73  
## - Channel23 1 0.668 171.03 122.81  
## - Channel3 1 0.717 171.08 122.88  
## - Channel94 1 0.758 171.13 122.93  
## - Channel83 1 0.760 171.13 122.93  
## - Channel90 1 0.783 171.15 122.96  
## - Channel62 1 0.799 171.17 122.98  
## - Channel10 1 0.858 171.22 123.05  
## - Channel43 1 0.861 171.23 123.06  
## - Channel18 1 0.980 171.35 123.21  
## - Channel26 1 1.118 171.49 123.38  
## - Channel20 1 1.137 171.50 123.40  
## - Channel16 1 1.167 171.53 123.44  
## - Channel97 1 1.321 171.69 123.64  
## - Channel44 1 1.323 171.69 123.64  
## - Channel98 1 1.332 171.70 123.65  
## - Channel6 1 1.508 171.88 123.87  
## - Channel88 1 1.531 171.90 123.90  
## <none> 170.37 123.97  
## - Channel65 1 1.596 171.96 123.98  
## - Channel48 1 1.599 171.97 123.98  
## - Channel27 1 1.617 171.98 124.00  
## - Channel19 1 1.683 172.05 124.09  
## - Channel75 1 1.690 172.06 124.10  
## - Channel11 1 1.739 172.11 124.16  
## - Channel21 1 1.763 172.13 124.19  
## - Channel24 1 1.995 172.36 124.48  
## - Channel15 1 2.021 172.39 124.51  
## - Channel7 1 2.530 172.90 125.14  
## - Channel34 1 2.573 172.94 125.20  
## - Channel8 1 2.628 173.00 125.27  
## - Channel31 1 2.660 173.03 125.31  
## - Channel85 1 2.936 173.30 125.65  
## - Channel78 1 3.015 173.38 125.75  
## - Channel47 1 3.167 173.53 125.93  
## - Channel87 1 3.342 173.71 126.15  
## - Channel40 1 3.653 174.02 126.53  
## - Channel41 1 3.658 174.03 126.54  
## - Channel14 1 3.805 174.17 126.72  
## - Channel32 1 3.856 174.22 126.79  
## - Channel4 1 3.950 174.32 126.90  
## - Channel92 1 4.033 174.40 127.00  
## - Channel46 1 4.102 174.47 127.09  
## - Channel5 1 4.176 174.54 127.18  
## - Channel42 1 4.343 174.71 127.39  
## - Channel22 1 4.730 175.10 127.86  
## - Channel13 1 4.896 175.26 128.06  
## - Channel37 1 5.100 175.47 128.31  
## - Channel36 1 5.297 175.66 128.56  
## - Channel81 1 5.412 175.78 128.70  
## - Channel61 1 5.748 176.12 129.11  
## - Channel50 1 5.942 176.31 129.34  
## - Channel67 1 6.005 176.37 129.42  
## - Channel12 1 6.067 176.44 129.50  
## - Channel25 1 6.512 176.88 130.04  
## - Channel71 1 6.718 177.09 130.29  
## - Channel30 1 7.171 177.54 130.84  
## - Channel79 1 7.393 177.76 131.11  
## - Channel2 1 8.168 178.54 132.04  
## - Channel74 1 8.500 178.87 132.44  
## - Channel39 1 8.863 179.23 132.88  
## - Channel63 1 10.606 180.97 134.96  
## - Channel45 1 12.967 183.34 137.75  
## - Channel59 1 13.542 183.91 138.42  
## - Channel99 1 13.613 183.98 138.50  
## - Channel68 1 14.249 184.62 139.24  
## - Channel51 1 14.385 184.75 139.40  
## - Channel28 1 14.774 185.14 139.85  
## - Channel56 1 15.348 185.72 140.52  
## - Channel73 1 15.541 185.91 140.74  
## - Channel64 1 15.575 185.94 140.78  
## - Channel60 1 17.172 187.54 142.62  
## - Channel69 1 17.335 187.70 142.81  
## - Channel80 1 17.896 188.26 143.45  
## - Channel29 1 18.769 189.14 144.44  
## - Channel1 1 21.476 191.84 147.50  
## - Channel55 1 24.239 194.61 150.57  
## - Channel52 1 29.837 200.21 156.67  
## - Channel54 1 34.539 204.91 161.66  
##   
## Step: AIC=122.13  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel35 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel43 +   
## Channel44 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel72 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel82 + Channel83 + Channel84 + Channel85 +   
## Channel86 + Channel87 + Channel88 + Channel90 + Channel92 +   
## Channel94 + Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel82 1 0.201 170.69 120.38  
## - Channel86 1 0.311 170.80 120.52  
## - Channel17 1 0.346 170.83 120.56  
## - Channel72 1 0.397 170.88 120.63  
## - Channel76 1 0.398 170.89 120.63  
## - Channel35 1 0.550 171.04 120.82  
## - Channel84 1 0.551 171.04 120.82  
## - Channel95 1 0.564 171.05 120.83  
## - Channel23 1 0.652 171.14 120.95  
## - Channel90 1 0.665 171.15 120.96  
## - Channel83 1 0.743 171.23 121.06  
## - Channel62 1 0.804 171.29 121.14  
## - Channel3 1 0.817 171.31 121.15  
## - Channel10 1 0.888 171.38 121.24  
## - Channel43 1 0.902 171.39 121.26  
## - Channel18 1 0.953 171.44 121.32  
## - Channel16 1 1.057 171.54 121.45  
## - Channel26 1 1.061 171.55 121.46  
## - Channel20 1 1.090 171.58 121.50  
## - Channel97 1 1.226 171.71 121.67  
## - Channel44 1 1.291 171.78 121.75  
## - Channel88 1 1.448 171.94 121.94  
## - Channel65 1 1.493 171.98 122.00  
## - Channel27 1 1.504 171.99 122.01  
## - Channel6 1 1.551 172.04 122.07  
## - Channel75 1 1.576 172.06 122.10  
## <none> 170.49 122.13  
## - Channel98 1 1.593 172.08 122.13  
## - Channel19 1 1.645 172.13 122.19  
## - Channel48 1 1.658 172.15 122.21  
## - Channel11 1 1.705 172.19 122.27  
## - Channel21 1 1.787 172.28 122.37  
## - Channel24 1 2.028 172.52 122.67  
## - Channel15 1 2.414 172.90 123.15  
## - Channel7 1 2.472 172.96 123.22  
## - Channel8 1 2.513 173.00 123.27  
## - Channel34 1 2.538 173.03 123.30  
## - Channel31 1 2.555 173.04 123.32  
## - Channel85 1 2.831 173.32 123.67  
## - Channel78 1 2.959 173.45 123.83  
## - Channel47 1 3.188 173.68 124.11  
## - Channel87 1 3.348 173.84 124.31  
## - Channel41 1 3.707 174.19 124.75  
## - Channel32 1 3.740 174.23 124.79  
## - Channel40 1 3.743 174.23 124.79  
## - Channel14 1 4.034 174.52 125.15  
## - Channel4 1 4.042 174.53 125.16  
## - Channel94 1 4.081 174.57 125.21  
## - Channel46 1 4.092 174.58 125.22  
## - Channel5 1 4.214 174.70 125.38  
## - Channel42 1 4.444 174.93 125.66  
## - Channel22 1 4.709 175.20 125.98  
## - Channel13 1 4.851 175.34 126.16  
## - Channel36 1 5.263 175.75 126.66  
## - Channel37 1 5.407 175.90 126.84  
## - Channel81 1 5.428 175.92 126.86  
## - Channel12 1 5.952 176.44 127.50  
## - Channel50 1 5.960 176.45 127.51  
## - Channel61 1 6.159 176.65 127.75  
## - Channel25 1 6.405 176.89 128.06  
## - Channel67 1 6.500 176.99 128.17  
## - Channel71 1 6.667 177.16 128.37  
## - Channel30 1 7.061 177.55 128.85  
## - Channel79 1 7.373 177.86 129.23  
## - Channel2 1 8.066 178.55 130.06  
## - Channel74 1 8.395 178.88 130.46  
## - Channel92 1 8.492 178.98 130.58  
## - Channel39 1 9.217 179.71 131.44  
## - Channel63 1 10.504 180.99 132.98  
## - Channel45 1 12.847 183.34 135.75  
## - Channel59 1 14.227 184.72 137.36  
## - Channel51 1 14.346 184.83 137.50  
## - Channel68 1 14.347 184.83 137.50  
## - Channel28 1 14.662 185.15 137.86  
## - Channel99 1 14.763 185.25 137.98  
## - Channel56 1 15.249 185.74 138.54  
## - Channel64 1 15.461 185.95 138.79  
## - Channel73 1 17.085 187.57 140.66  
## - Channel69 1 17.275 187.76 140.88  
## - Channel80 1 17.828 188.32 141.51  
## - Channel60 1 18.728 189.22 142.53  
## - Channel29 1 18.751 189.24 142.56  
## - Channel1 1 21.465 191.95 145.62  
## - Channel55 1 24.155 194.64 148.61  
## - Channel52 1 29.730 200.22 154.69  
## - Channel54 1 34.697 205.19 159.95  
##   
## Step: AIC=120.38  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel35 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel43 +   
## Channel44 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel72 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel83 + Channel84 + Channel85 + Channel86 +   
## Channel87 + Channel88 + Channel90 + Channel92 + Channel94 +   
## Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel86 1 0.261 170.95 118.71  
## - Channel17 1 0.280 170.97 118.73  
## - Channel72 1 0.329 171.02 118.79  
## - Channel76 1 0.487 171.18 118.99  
## - Channel35 1 0.528 171.22 119.04  
## - Channel23 1 0.611 171.30 119.15  
## - Channel83 1 0.632 171.32 119.17  
## - Channel95 1 0.662 171.35 119.21  
## - Channel90 1 0.698 171.39 119.26  
## - Channel3 1 0.830 171.52 119.42  
## - Channel62 1 0.830 171.52 119.42  
## - Channel43 1 0.854 171.54 119.45  
## - Channel10 1 0.970 171.66 119.60  
## - Channel84 1 0.983 171.67 119.61  
## - Channel16 1 1.035 171.72 119.68  
## - Channel26 1 1.040 171.73 119.69  
## - Channel18 1 1.122 171.81 119.79  
## - Channel44 1 1.168 171.86 119.84  
## - Channel20 1 1.228 171.92 119.92  
## - Channel97 1 1.442 172.13 120.19  
## - Channel98 1 1.461 172.15 120.21  
## - Channel65 1 1.493 172.18 120.25  
## - Channel27 1 1.543 172.23 120.31  
## - Channel88 1 1.574 172.26 120.35  
## - Channel6 1 1.582 172.27 120.36  
## - Channel48 1 1.588 172.28 120.37  
## <none> 170.69 120.38  
## - Channel75 1 1.606 172.29 120.39  
## - Channel19 1 1.677 172.37 120.48  
## - Channel21 1 1.700 172.39 120.51  
## - Channel11 1 1.940 172.63 120.81  
## - Channel24 1 2.340 173.03 121.31  
## - Channel15 1 2.385 173.07 121.36  
## - Channel31 1 2.478 173.17 121.48  
## - Channel34 1 2.522 173.21 121.53  
## - Channel7 1 2.615 173.30 121.65  
## - Channel8 1 2.693 173.38 121.75  
## - Channel78 1 2.788 173.48 121.86  
## - Channel47 1 3.165 173.85 122.33  
## - Channel87 1 3.403 174.09 122.62  
## - Channel85 1 3.465 174.15 122.70  
## - Channel32 1 3.640 174.33 122.92  
## - Channel41 1 3.779 174.47 123.09  
## - Channel40 1 3.836 174.53 123.16  
## - Channel4 1 3.923 174.61 123.27  
## - Channel46 1 3.962 174.65 123.31  
## - Channel14 1 3.984 174.67 123.34  
## - Channel5 1 4.112 174.80 123.50  
## - Channel94 1 4.269 174.96 123.69  
## - Channel42 1 4.447 175.14 123.91  
## - Channel22 1 4.674 175.36 124.19  
## - Channel13 1 4.840 175.53 124.39  
## - Channel36 1 5.249 175.94 124.89  
## - Channel37 1 5.468 176.16 125.16  
## - Channel50 1 5.859 176.55 125.64  
## - Channel12 1 6.118 176.81 125.95  
## - Channel61 1 6.346 177.03 126.23  
## - Channel67 1 6.581 177.27 126.51  
## - Channel25 1 6.860 177.55 126.85  
## - Channel30 1 7.010 177.70 127.03  
## - Channel71 1 7.029 177.72 127.06  
## - Channel79 1 7.195 177.88 127.26  
## - Channel2 1 8.026 178.72 128.26  
## - Channel74 1 8.396 179.09 128.70  
## - Channel92 1 8.474 179.16 128.80  
## - Channel39 1 9.315 180.00 129.80  
## - Channel63 1 10.620 181.31 131.36  
## - Channel45 1 12.674 183.36 133.78  
## - Channel81 1 13.696 184.38 134.97  
## - Channel59 1 14.034 184.72 135.37  
## - Channel51 1 14.231 184.92 135.60  
## - Channel99 1 14.564 185.25 135.98  
## - Channel68 1 14.787 185.48 136.24  
## - Channel28 1 14.904 185.59 136.38  
## - Channel64 1 15.428 186.12 136.98  
## - Channel56 1 15.771 186.46 137.38  
## - Channel73 1 17.016 187.71 138.81  
## - Channel69 1 17.706 188.40 139.60  
## - Channel60 1 18.533 189.22 140.54  
## - Channel29 1 18.939 189.63 141.00  
## - Channel80 1 19.111 189.80 141.20  
## - Channel1 1 21.644 192.33 144.05  
## - Channel55 1 24.832 195.52 147.58  
## - Channel52 1 29.670 200.36 152.84  
## - Channel54 1 35.277 205.97 158.77  
##   
## Step: AIC=118.71  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel35 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel43 +   
## Channel44 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel72 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel83 + Channel84 + Channel85 + Channel87 +   
## Channel88 + Channel90 + Channel92 + Channel94 + Channel95 +   
## Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel72 1 0.334 171.28 117.13  
## - Channel17 1 0.430 171.38 117.25  
## - Channel76 1 0.507 171.46 117.34  
## - Channel90 1 0.516 171.47 117.36  
## - Channel35 1 0.547 171.50 117.39  
## - Channel83 1 0.554 171.50 117.40  
## - Channel95 1 0.555 171.50 117.40  
## - Channel43 1 0.694 171.64 117.58  
## - Channel23 1 0.726 171.68 117.62  
## - Channel62 1 0.762 171.71 117.66  
## - Channel3 1 0.802 171.75 117.71  
## - Channel26 1 1.004 171.95 117.97  
## - Channel16 1 1.019 171.97 117.99  
## - Channel44 1 1.043 171.99 118.02  
## - Channel18 1 1.053 172.00 118.03  
## - Channel20 1 1.121 172.07 118.11  
## - Channel10 1 1.146 172.10 118.14  
## - Channel97 1 1.291 172.24 118.33  
## - Channel27 1 1.424 172.37 118.49  
## - Channel65 1 1.430 172.38 118.50  
## - Channel88 1 1.482 172.43 118.56  
## - Channel98 1 1.493 172.44 118.58  
## - Channel19 1 1.557 172.51 118.66  
## - Channel6 1 1.566 172.52 118.67  
## <none> 170.95 118.71  
## - Channel48 1 1.603 172.55 118.71  
## - Channel75 1 1.654 172.60 118.78  
## - Channel84 1 1.735 172.69 118.88  
## - Channel21 1 1.867 172.82 119.04  
## - Channel24 1 2.183 173.13 119.44  
## - Channel11 1 2.209 173.16 119.47  
## - Channel34 1 2.462 173.41 119.78  
## - Channel31 1 2.513 173.46 119.84  
## - Channel7 1 2.539 173.49 119.88  
## - Channel15 1 2.658 173.61 120.02  
## - Channel8 1 2.730 173.68 120.11  
## - Channel47 1 3.046 174.00 120.50  
## - Channel78 1 3.312 174.26 120.83  
## - Channel41 1 3.587 174.54 121.17  
## - Channel32 1 3.617 174.57 121.21  
## - Channel40 1 3.779 174.73 121.41  
## - Channel4 1 3.828 174.78 121.47  
## - Channel46 1 4.029 174.98 121.72  
## - Channel5 1 4.119 175.07 121.83  
## - Channel94 1 4.169 175.12 121.89  
## - Channel42 1 4.188 175.14 121.91  
## - Channel14 1 4.272 175.22 122.01  
## - Channel22 1 4.995 175.94 122.90  
## - Channel13 1 5.204 176.15 123.16  
## - Channel36 1 5.386 176.34 123.38  
## - Channel37 1 5.575 176.53 123.61  
## - Channel61 1 6.318 177.27 124.51  
## - Channel12 1 6.579 177.53 124.83  
## - Channel25 1 6.632 177.58 124.89  
## - Channel71 1 6.864 177.81 125.17  
## - Channel50 1 7.203 178.15 125.58  
## - Channel67 1 7.298 178.25 125.70  
## - Channel30 1 7.467 178.42 125.90  
## - Channel2 1 8.178 179.13 126.75  
## - Channel87 1 8.209 179.16 126.79  
## - Channel92 1 8.296 179.25 126.90  
## - Channel74 1 8.432 179.38 127.06  
## - Channel39 1 9.284 180.23 128.08  
## - Channel79 1 9.675 180.62 128.54  
## - Channel63 1 10.538 181.49 129.57  
## - Channel45 1 12.602 183.55 132.00  
## - Channel85 1 13.103 184.05 132.59  
## - Channel59 1 14.040 184.99 133.68  
## - Channel99 1 14.450 185.40 134.15  
## - Channel28 1 14.898 185.85 134.67  
## - Channel64 1 15.213 186.16 135.04  
## - Channel56 1 15.525 186.47 135.40  
## - Channel68 1 16.567 187.52 136.59  
## - Channel73 1 16.766 187.72 136.82  
## - Channel81 1 16.777 187.73 136.84  
## - Channel51 1 17.291 188.24 137.42  
## - Channel60 1 18.652 189.60 138.97  
## - Channel69 1 19.057 190.01 139.43  
## - Channel29 1 20.336 191.29 140.87  
## - Channel1 1 22.597 193.55 143.40  
## - Channel55 1 24.598 195.55 145.61  
## - Channel80 1 24.734 195.68 145.76  
## - Channel52 1 32.243 203.19 153.86  
## - Channel54 1 35.065 206.01 156.82  
##   
## Step: AIC=117.13  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel35 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel43 +   
## Channel44 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel73 + Channel74 + Channel75 +   
## Channel76 + Channel78 + Channel79 + Channel80 + Channel81 +   
## Channel83 + Channel84 + Channel85 + Channel87 + Channel88 +   
## Channel90 + Channel92 + Channel94 + Channel95 + Channel97 +   
## Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel35 1 0.454 171.74 115.70  
## - Channel83 1 0.469 171.75 115.72  
## - Channel90 1 0.478 171.76 115.73  
## - Channel17 1 0.522 171.81 115.78  
## - Channel43 1 0.555 171.84 115.82  
## - Channel95 1 0.561 171.84 115.83  
## - Channel23 1 0.662 171.95 115.96  
## - Channel3 1 0.801 172.09 116.13  
## - Channel62 1 0.852 172.14 116.19  
## - Channel16 1 0.874 172.16 116.22  
## - Channel18 1 0.941 172.22 116.31  
## - Channel44 1 0.958 172.24 116.33  
## - Channel26 1 0.994 172.28 116.37  
## - Channel97 1 1.104 172.39 116.51  
## - Channel76 1 1.122 172.41 116.53  
## - Channel10 1 1.161 172.44 116.58  
## - Channel20 1 1.173 172.46 116.59  
## - Channel88 1 1.356 172.64 116.82  
## - Channel48 1 1.413 172.70 116.89  
## - Channel6 1 1.529 172.81 117.04  
## - Channel27 1 1.549 172.83 117.06  
## <none> 171.28 117.13  
## - Channel19 1 1.628 172.91 117.16  
## - Channel98 1 1.799 173.08 117.37  
## - Channel84 1 1.804 173.09 117.38  
## - Channel21 1 1.830 173.11 117.41  
## - Channel65 1 1.900 173.18 117.50  
## - Channel31 1 2.303 173.59 118.00  
## - Channel11 1 2.346 173.63 118.05  
## - Channel24 1 2.498 173.78 118.24  
## - Channel75 1 2.575 173.86 118.34  
## - Channel7 1 2.596 173.88 118.36  
## - Channel34 1 2.681 173.97 118.47  
## - Channel47 1 2.859 174.14 118.69  
## - Channel15 1 2.902 174.19 118.74  
## - Channel8 1 2.994 174.28 118.85  
## - Channel78 1 3.034 174.32 118.90  
## - Channel41 1 3.316 174.60 119.25  
## - Channel32 1 3.423 174.71 119.38  
## - Channel40 1 3.563 174.85 119.55  
## - Channel4 1 3.756 175.04 119.79  
## - Channel42 1 3.876 175.16 119.94  
## - Channel5 1 4.064 175.35 120.17  
## - Channel94 1 4.181 175.47 120.31  
## - Channel46 1 4.193 175.48 120.33  
## - Channel14 1 4.311 175.59 120.47  
## - Channel22 1 4.936 176.22 121.24  
## - Channel36 1 5.261 176.54 121.63  
## - Channel37 1 5.320 176.60 121.70  
## - Channel13 1 5.364 176.65 121.76  
## - Channel12 1 6.886 178.17 123.60  
## - Channel67 1 6.969 178.25 123.70  
## - Channel50 1 7.070 178.35 123.82  
## - Channel25 1 7.147 178.43 123.92  
## - Channel30 1 7.183 178.47 123.96  
## - Channel61 1 7.469 178.75 124.30  
## - Channel2 1 7.862 179.15 124.78  
## - Channel87 1 7.940 179.22 124.87  
## - Channel74 1 8.179 179.46 125.16  
## - Channel92 1 8.188 179.47 125.17  
## - Channel39 1 8.967 180.25 126.10  
## - Channel79 1 9.345 180.63 126.55  
## - Channel63 1 11.789 183.07 129.44  
## - Channel45 1 12.705 183.99 130.51  
## - Channel85 1 12.952 184.24 130.80  
## - Channel59 1 13.715 185.00 131.69  
## - Channel99 1 14.882 186.17 133.04  
## - Channel28 1 15.098 186.38 133.29  
## - Channel56 1 15.696 186.98 133.98  
## - Channel68 1 16.304 187.59 134.68  
## - Channel81 1 16.462 187.75 134.86  
## - Channel51 1 17.253 188.54 135.76  
## - Channel64 1 17.781 189.06 136.36  
## - Channel60 1 18.754 190.04 137.47  
## - Channel69 1 19.620 190.90 138.44  
## - Channel29 1 20.092 191.38 138.97  
## - Channel71 1 21.344 192.63 140.38  
## - Channel1 1 22.342 193.63 141.49  
## - Channel80 1 24.415 195.70 143.78  
## - Channel55 1 24.868 196.15 144.27  
## - Channel73 1 29.143 200.43 148.91  
## - Channel52 1 32.328 203.61 152.30  
## - Channel54 1 35.342 206.63 155.46  
##   
## Step: AIC=115.7  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel36 + Channel37 + Channel39 +   
## Channel40 + Channel41 + Channel42 + Channel43 + Channel44 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel62 + Channel63 +   
## Channel64 + Channel65 + Channel67 + Channel68 + Channel69 +   
## Channel71 + Channel73 + Channel74 + Channel75 + Channel76 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel83 +   
## Channel84 + Channel85 + Channel87 + Channel88 + Channel90 +   
## Channel92 + Channel94 + Channel95 + Channel97 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel43 1 0.367 172.10 114.16  
## - Channel83 1 0.446 172.18 114.25  
## - Channel90 1 0.523 172.26 114.35  
## - Channel17 1 0.603 172.34 114.45  
## - Channel44 1 0.724 172.46 114.60  
## - Channel3 1 0.727 172.47 114.60  
## - Channel18 1 0.780 172.52 114.67  
## - Channel23 1 0.783 172.52 114.67  
## - Channel95 1 0.892 172.63 114.81  
## - Channel20 1 0.917 172.65 114.84  
## - Channel16 1 0.950 172.69 114.88  
## - Channel26 1 0.963 172.70 114.90  
## - Channel10 1 0.991 172.73 114.93  
## - Channel62 1 1.038 172.78 114.99  
## - Channel76 1 1.288 173.03 115.30  
## - Channel88 1 1.364 173.10 115.40  
## - Channel6 1 1.477 173.22 115.54  
## - Channel19 1 1.495 173.23 115.56  
## - Channel97 1 1.516 173.25 115.59  
## - Channel27 1 1.557 173.29 115.64  
## - Channel98 1 1.566 173.30 115.65  
## <none> 171.74 115.70  
## - Channel65 1 1.796 173.53 115.93  
## - Channel48 1 1.878 173.62 116.03  
## - Channel31 1 1.955 173.69 116.13  
## - Channel84 1 2.066 173.80 116.27  
## - Channel11 1 2.078 173.82 116.28  
## - Channel24 1 2.407 174.15 116.69  
## - Channel7 1 2.471 174.21 116.77  
## - Channel21 1 2.489 174.23 116.79  
## - Channel15 1 2.563 174.30 116.88  
## - Channel8 1 2.825 174.56 117.20  
## - Channel78 1 2.887 174.62 117.28  
## - Channel47 1 2.965 174.70 117.38  
## - Channel41 1 3.046 174.78 117.48  
## - Channel75 1 3.280 175.02 117.76  
## - Channel42 1 3.468 175.21 118.00  
## - Channel32 1 3.526 175.26 118.06  
## - Channel4 1 3.586 175.32 118.14  
## - Channel40 1 3.600 175.34 118.16  
## - Channel14 1 3.893 175.63 118.52  
## - Channel5 1 3.902 175.64 118.53  
## - Channel46 1 4.179 175.92 118.86  
## - Channel94 1 4.908 176.65 119.75  
## - Channel13 1 4.920 176.66 119.77  
## - Channel36 1 5.437 177.18 120.40  
## - Channel37 1 5.441 177.18 120.40  
## - Channel22 1 5.779 177.52 120.81  
## - Channel12 1 6.442 178.18 121.61  
## - Channel30 1 6.744 178.48 121.98  
## - Channel25 1 6.906 178.64 122.17  
## - Channel67 1 7.372 179.11 122.73  
## - Channel61 1 7.689 179.43 123.11  
## - Channel50 1 8.083 179.82 123.58  
## - Channel2 1 8.084 179.82 123.58  
## - Channel87 1 8.094 179.83 123.60  
## - Channel92 1 8.486 180.22 124.07  
## - Channel79 1 9.433 181.17 125.19  
## - Channel39 1 9.522 181.26 125.30  
## - Channel74 1 9.928 181.67 125.78  
## - Channel63 1 11.913 183.65 128.12  
## - Channel45 1 12.280 184.02 128.54  
## - Channel59 1 13.949 185.69 130.49  
## - Channel85 1 14.060 185.80 130.61  
## - Channel99 1 14.506 186.24 131.13  
## - Channel28 1 15.367 187.10 132.12  
## - Channel34 1 16.621 188.36 133.56  
## - Channel56 1 16.775 188.51 133.73  
## - Channel68 1 16.902 188.64 133.88  
## - Channel81 1 16.990 188.73 133.98  
## - Channel64 1 18.020 189.76 135.15  
## - Channel60 1 18.647 190.38 135.86  
## - Channel51 1 18.747 190.49 135.97  
## - Channel29 1 19.647 191.38 136.99  
## - Channel69 1 20.273 192.01 137.69  
## - Channel71 1 21.912 193.65 139.51  
## - Channel1 1 22.442 194.18 140.10  
## - Channel80 1 25.196 196.93 143.13  
## - Channel55 1 25.835 197.57 143.83  
## - Channel73 1 31.570 203.31 149.98  
## - Channel52 1 33.692 205.43 152.21  
## - Channel54 1 36.103 207.84 154.72  
##   
## Step: AIC=114.15  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel36 + Channel37 + Channel39 +   
## Channel40 + Channel41 + Channel42 + Channel44 + Channel45 +   
## Channel46 + Channel47 + Channel48 + Channel50 + Channel51 +   
## Channel52 + Channel54 + Channel55 + Channel56 + Channel59 +   
## Channel60 + Channel61 + Channel62 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel83 + Channel84 +   
## Channel85 + Channel87 + Channel88 + Channel90 + Channel92 +   
## Channel94 + Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel44 1 0.369 172.47 112.61  
## - Channel83 1 0.458 172.56 112.73  
## - Channel90 1 0.513 172.62 112.80  
## - Channel3 1 0.590 172.69 112.89  
## - Channel23 1 0.794 172.90 113.14  
## - Channel17 1 0.798 172.90 113.15  
## - Channel20 1 0.807 172.91 113.16  
## - Channel18 1 0.832 172.94 113.19  
## - Channel26 1 0.914 173.02 113.29  
## - Channel16 1 0.963 173.07 113.36  
## - Channel62 1 1.029 173.13 113.44  
## - Channel10 1 1.138 173.24 113.57  
## - Channel95 1 1.152 173.26 113.59  
## - Channel76 1 1.215 173.32 113.67  
## - Channel19 1 1.281 173.39 113.75  
## - Channel88 1 1.313 173.42 113.79  
## - Channel6 1 1.320 173.43 113.80  
## - Channel27 1 1.488 173.59 114.01  
## - Channel97 1 1.574 173.68 114.11  
## <none> 172.10 114.16  
## - Channel65 1 1.633 173.74 114.19  
## - Channel98 1 1.739 173.84 114.32  
## - Channel48 1 1.882 173.99 114.49  
## - Channel84 1 1.967 174.07 114.60  
## - Channel31 1 1.971 174.08 114.60  
## - Channel11 1 2.320 174.43 115.03  
## - Channel7 1 2.338 174.44 115.06  
## - Channel24 1 2.394 174.50 115.12  
## - Channel21 1 2.691 174.80 115.49  
## - Channel47 1 2.767 174.87 115.58  
## - Channel78 1 2.849 174.95 115.69  
## - Channel8 1 2.870 174.97 115.71  
## - Channel15 1 2.876 174.98 115.72  
## - Channel41 1 3.041 175.15 115.92  
## - Channel75 1 3.143 175.25 116.05  
## - Channel40 1 3.256 175.36 116.19  
## - Channel4 1 3.291 175.40 116.23  
## - Channel32 1 3.626 175.73 116.64  
## - Channel5 1 3.641 175.75 116.66  
## - Channel14 1 4.237 176.34 117.38  
## - Channel46 1 4.552 176.66 117.77  
## - Channel13 1 5.175 177.28 118.52  
## - Channel94 1 5.327 177.43 118.71  
## - Channel36 1 5.344 177.45 118.73  
## - Channel37 1 5.413 177.52 118.81  
## - Channel22 1 6.007 178.11 119.53  
## - Channel12 1 6.719 178.82 120.39  
## - Channel25 1 6.723 178.83 120.39  
## - Channel30 1 6.773 178.88 120.45  
## - Channel42 1 7.550 179.66 121.39  
## - Channel87 1 7.998 180.10 121.92  
## - Channel67 1 8.033 180.14 121.96  
## - Channel61 1 8.194 180.30 122.16  
## - Channel50 1 8.545 180.65 122.57  
## - Channel92 1 8.591 180.70 122.63  
## - Channel2 1 9.004 181.11 123.12  
## - Channel39 1 9.156 181.26 123.30  
## - Channel79 1 9.261 181.37 123.42  
## - Channel74 1 9.845 181.95 124.11  
## - Channel45 1 11.914 184.02 126.55  
## - Channel63 1 12.116 184.22 126.78  
## - Channel85 1 13.795 185.90 128.73  
## - Channel99 1 15.368 187.47 130.54  
## - Channel28 1 15.403 187.51 130.58  
## - Channel59 1 15.677 187.78 130.90  
## - Channel81 1 16.644 188.75 132.00  
## - Channel34 1 16.662 188.77 132.02  
## - Channel56 1 17.254 189.36 132.70  
## - Channel64 1 17.830 189.93 133.35  
## - Channel68 1 18.029 190.13 133.57  
## - Channel51 1 19.502 191.61 135.23  
## - Channel29 1 19.942 192.05 135.73  
## - Channel60 1 20.757 192.86 136.64  
## - Channel69 1 21.195 193.30 137.12  
## - Channel71 1 22.271 194.38 138.32  
## - Channel80 1 24.840 196.94 141.14  
## - Channel1 1 25.186 197.29 141.52  
## - Channel55 1 26.060 198.16 142.47  
## - Channel73 1 31.502 203.61 148.29  
## - Channel52 1 34.293 206.40 151.22  
## - Channel54 1 36.180 208.28 153.18  
##   
## Step: AIC=112.62  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel36 + Channel37 + Channel39 +   
## Channel40 + Channel41 + Channel42 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel83 + Channel84 + Channel85 +   
## Channel87 + Channel88 + Channel90 + Channel92 + Channel94 +   
## Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel90 1 0.443 172.92 111.17  
## - Channel83 1 0.534 173.01 111.28  
## - Channel3 1 0.563 173.04 111.32  
## - Channel23 1 0.709 173.18 111.50  
## - Channel20 1 0.722 173.19 111.51  
## - Channel18 1 0.826 173.30 111.64  
## - Channel26 1 0.923 173.40 111.76  
## - Channel17 1 0.934 173.41 111.78  
## - Channel62 1 0.991 173.46 111.85  
## - Channel16 1 1.000 173.47 111.86  
## - Channel10 1 1.145 173.62 112.04  
## - Channel19 1 1.226 173.70 112.14  
## - Channel95 1 1.233 173.71 112.15  
## - Channel6 1 1.237 173.71 112.15  
## - Channel76 1 1.323 173.80 112.26  
## - Channel27 1 1.378 173.85 112.33  
## - Channel88 1 1.458 173.93 112.42  
## - Channel97 1 1.552 174.03 112.54  
## - Channel65 1 1.611 174.08 112.61  
## <none> 172.47 112.61  
## - Channel31 1 1.738 174.21 112.77  
## - Channel98 1 1.756 174.23 112.79  
## - Channel48 1 1.818 174.29 112.87  
## - Channel84 1 1.849 174.32 112.91  
## - Channel11 1 2.193 174.67 113.33  
## - Channel7 1 2.284 174.76 113.44  
## - Channel24 1 2.441 174.91 113.64  
## - Channel47 1 2.586 175.06 113.81  
## - Channel21 1 2.698 175.17 113.95  
## - Channel8 1 2.895 175.37 114.19  
## - Channel75 1 3.009 175.48 114.33  
## - Channel78 1 3.017 175.49 114.34  
## - Channel15 1 3.056 175.53 114.39  
## - Channel4 1 3.114 175.59 114.46  
## - Channel32 1 3.322 175.80 114.72  
## - Channel5 1 3.474 175.95 114.90  
## - Channel40 1 4.126 176.60 115.70  
## - Channel46 1 4.225 176.70 115.82  
## - Channel14 1 4.256 176.73 115.86  
## - Channel41 1 4.372 176.84 116.00  
## - Channel13 1 5.111 177.58 116.89  
## - Channel36 1 5.140 177.61 116.93  
## - Channel37 1 5.347 177.82 117.18  
## - Channel94 1 5.547 178.02 117.42  
## - Channel22 1 5.799 178.27 117.72  
## - Channel30 1 6.492 178.97 118.56  
## - Channel12 1 6.585 179.06 118.67  
## - Channel25 1 6.639 179.11 118.74  
## - Channel61 1 8.153 180.63 120.55  
## - Channel67 1 8.252 180.73 120.66  
## - Channel92 1 8.409 180.88 120.85  
## - Channel87 1 8.948 181.42 121.49  
## - Channel2 1 9.103 181.58 121.67  
## - Channel50 1 9.450 181.92 122.08  
## - Channel74 1 9.615 182.09 122.28  
## - Channel39 1 10.163 182.64 122.92  
## - Channel79 1 10.488 182.96 123.31  
## - Channel63 1 11.818 184.29 124.86  
## - Channel42 1 13.784 186.26 127.14  
## - Channel85 1 14.028 186.50 127.43  
## - Channel28 1 15.120 187.59 128.68  
## - Channel99 1 15.377 187.85 128.98  
## - Channel59 1 15.426 187.90 129.03  
## - Channel34 1 16.312 188.78 130.04  
## - Channel56 1 16.937 189.41 130.75  
## - Channel64 1 17.569 190.04 131.47  
## - Channel81 1 17.848 190.32 131.79  
## - Channel68 1 17.911 190.38 131.86  
## - Channel29 1 19.694 192.17 133.86  
## - Channel60 1 20.389 192.86 134.64  
## - Channel51 1 20.827 193.30 135.12  
## - Channel69 1 21.044 193.52 135.37  
## - Channel71 1 22.025 194.50 136.45  
## - Channel55 1 25.737 198.21 140.52  
## - Channel1 1 25.978 198.45 140.78  
## - Channel80 1 27.322 199.80 142.23  
## - Channel45 1 28.425 200.90 143.41  
## - Channel73 1 31.135 203.61 146.30  
## - Channel52 1 34.866 207.34 150.20  
## - Channel54 1 35.836 208.31 151.20  
##   
## Step: AIC=111.17  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel36 + Channel37 + Channel39 +   
## Channel40 + Channel41 + Channel42 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel83 + Channel84 + Channel85 +   
## Channel87 + Channel88 + Channel92 + Channel94 + Channel95 +   
## Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel83 1 0.464 173.38 109.74  
## - Channel23 1 0.599 173.51 109.91  
## - Channel3 1 0.627 173.54 109.94  
## - Channel62 1 0.786 173.70 110.14  
## - Channel26 1 0.793 173.71 110.15  
## - Channel95 1 0.853 173.77 110.22  
## - Channel20 1 0.854 173.77 110.22  
## - Channel17 1 1.054 173.97 110.47  
## - Channel10 1 1.086 174.00 110.51  
## - Channel19 1 1.131 174.05 110.57  
## - Channel18 1 1.192 174.11 110.64  
## - Channel88 1 1.247 174.16 110.71  
## - Channel97 1 1.334 174.25 110.82  
## - Channel6 1 1.335 174.25 110.82  
## - Channel16 1 1.419 174.34 110.92  
## - Channel27 1 1.522 174.44 111.05  
## - Channel65 1 1.566 174.48 111.11  
## <none> 172.92 111.17  
## - Channel84 1 1.620 174.54 111.17  
## - Channel48 1 1.704 174.62 111.28  
## - Channel31 1 1.745 174.66 111.33  
## - Channel98 1 1.798 174.71 111.39  
## - Channel76 1 1.922 174.84 111.54  
## - Channel11 1 2.073 174.99 111.73  
## - Channel21 1 2.450 175.37 112.19  
## - Channel24 1 2.542 175.46 112.30  
## - Channel7 1 2.664 175.58 112.45  
## - Channel15 1 2.834 175.75 112.66  
## - Channel8 1 3.113 176.03 113.00  
## - Channel47 1 3.191 176.11 113.10  
## - Channel4 1 3.300 176.22 113.23  
## - Channel75 1 3.312 176.23 113.25  
## - Channel78 1 3.314 176.23 113.25  
## - Channel32 1 3.411 176.33 113.37  
## - Channel5 1 3.583 176.50 113.58  
## - Channel46 1 3.836 176.75 113.88  
## - Channel40 1 3.945 176.86 114.02  
## - Channel14 1 4.185 177.10 114.31  
## - Channel41 1 4.244 177.16 114.38  
## - Channel13 1 5.096 178.01 115.41  
## - Channel22 1 5.460 178.38 115.85  
## - Channel94 1 5.473 178.39 115.87  
## - Channel36 1 5.476 178.39 115.87  
## - Channel37 1 5.511 178.43 115.91  
## - Channel30 1 6.464 179.38 117.06  
## - Channel12 1 6.539 179.46 117.15  
## - Channel25 1 6.547 179.46 117.16  
## - Channel61 1 7.768 180.68 118.61  
## - Channel67 1 8.496 181.41 119.48  
## - Channel50 1 9.007 181.92 120.08  
## - Channel2 1 9.160 182.08 120.27  
## - Channel74 1 9.261 182.18 120.38  
## - Channel39 1 9.914 182.83 121.15  
## - Channel79 1 10.564 183.48 121.92  
## - Channel87 1 11.125 184.04 122.57  
## - Channel63 1 11.923 184.84 123.50  
## - Channel42 1 13.630 186.55 125.48  
## - Channel85 1 14.043 186.96 125.95  
## - Channel99 1 15.454 188.37 127.57  
## - Channel28 1 15.567 188.48 127.70  
## - Channel59 1 15.596 188.51 127.73  
## - Channel92 1 16.503 189.42 128.76  
## - Channel34 1 16.659 189.57 128.94  
## - Channel64 1 17.248 190.16 129.61  
## - Channel56 1 17.413 190.33 129.80  
## - Channel81 1 17.422 190.34 129.81  
## - Channel68 1 18.927 191.84 131.50  
## - Channel29 1 20.008 192.92 132.71  
## - Channel60 1 20.108 193.02 132.82  
## - Channel51 1 20.481 193.40 133.23  
## - Channel69 1 23.199 196.12 136.23  
## - Channel55 1 25.899 198.81 139.17  
## - Channel1 1 26.479 199.40 139.80  
## - Channel80 1 26.898 199.81 140.25  
## - Channel45 1 28.007 200.92 141.44  
## - Channel71 1 28.982 201.90 142.48  
## - Channel73 1 31.851 204.77 145.51  
## - Channel52 1 34.572 207.49 148.35  
## - Channel54 1 35.568 208.48 149.38  
##   
## Step: AIC=109.74  
## fat ~ Channel1 + Channel2 + Channel3 + Channel4 + Channel5 +   
## Channel6 + Channel7 + Channel8 + Channel10 + Channel11 +   
## Channel12 + Channel13 + Channel14 + Channel15 + Channel16 +   
## Channel17 + Channel18 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel23 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel36 + Channel37 + Channel39 +   
## Channel40 + Channel41 + Channel42 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel62 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel84 + Channel85 + Channel87 +   
## Channel88 + Channel92 + Channel94 + Channel95 + Channel97 +   
## Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel3 1 0.450 173.83 108.30  
## - Channel23 1 0.464 173.84 108.32  
## - Channel26 1 0.695 174.07 108.60  
## - Channel95 1 0.772 174.15 108.70  
## - Channel62 1 0.811 174.19 108.75  
## - Channel10 1 0.890 174.27 108.84  
## - Channel17 1 1.049 174.43 109.04  
## - Channel18 1 1.113 174.49 109.12  
## - Channel20 1 1.181 174.56 109.20  
## - Channel6 1 1.188 174.57 109.21  
## - Channel16 1 1.310 174.69 109.36  
## - Channel97 1 1.427 174.81 109.50  
## - Channel19 1 1.446 174.83 109.53  
## - Channel27 1 1.522 174.90 109.62  
## - Channel76 1 1.578 174.96 109.69  
## - Channel48 1 1.601 174.98 109.72  
## <none> 173.38 109.74  
## - Channel88 1 1.654 175.03 109.78  
## - Channel31 1 1.692 175.07 109.83  
## - Channel98 1 1.731 175.11 109.88  
## - Channel65 1 1.811 175.19 109.98  
## - Channel11 1 1.901 175.28 110.09  
## - Channel21 1 2.093 175.47 110.32  
## - Channel7 1 2.542 175.92 110.87  
## - Channel15 1 2.886 176.27 111.29  
## - Channel24 1 2.935 176.31 111.35  
## - Channel75 1 3.003 176.38 111.44  
## - Channel4 1 3.015 176.40 111.45  
## - Channel47 1 3.095 176.47 111.55  
## - Channel8 1 3.274 176.65 111.77  
## - Channel5 1 3.310 176.69 111.81  
## - Channel32 1 3.409 176.79 111.93  
## - Channel46 1 3.653 177.03 112.22  
## - Channel40 1 4.015 177.40 112.67  
## - Channel41 1 4.092 177.47 112.76  
## - Channel14 1 4.161 177.54 112.84  
## - Channel22 1 5.042 178.42 113.91  
## - Channel37 1 5.254 178.63 114.16  
## - Channel13 1 5.276 178.66 114.19  
## - Channel94 1 5.292 178.67 114.21  
## - Channel36 1 5.340 178.72 114.26  
## - Channel78 1 5.668 179.05 114.66  
## - Channel30 1 6.351 179.73 115.48  
## - Channel12 1 6.630 180.01 115.81  
## - Channel25 1 6.908 180.29 116.14  
## - Channel61 1 8.262 181.64 117.75  
## - Channel50 1 8.836 182.22 118.43  
## - Channel74 1 9.159 182.54 118.81  
## - Channel67 1 9.206 182.59 118.87  
## - Channel39 1 9.979 183.36 119.77  
## - Channel2 1 10.318 183.70 120.17  
## - Channel79 1 12.020 185.40 122.15  
## - Channel63 1 12.477 185.86 122.68  
## - Channel42 1 13.175 186.56 123.49  
## - Channel87 1 13.863 187.24 124.28  
## - Channel84 1 14.713 188.09 125.25  
## - Channel59 1 15.139 188.52 125.74  
## - Channel28 1 15.419 188.80 126.06  
## - Channel99 1 15.510 188.89 126.16  
## - Channel92 1 16.682 190.06 127.49  
## - Channel34 1 16.795 190.18 127.62  
## - Channel56 1 17.199 190.58 128.08  
## - Channel64 1 18.951 192.33 130.04  
## - Channel60 1 19.946 193.33 131.16  
## - Channel29 1 20.001 193.38 131.22  
## - Channel51 1 20.108 193.49 131.33  
## - Channel68 1 20.351 193.73 131.60  
## - Channel69 1 25.637 199.02 137.39  
## - Channel55 1 25.943 199.32 137.72  
## - Channel81 1 26.560 199.94 138.39  
## - Channel1 1 26.913 200.29 138.77  
## - Channel45 1 27.599 200.98 139.50  
## - Channel80 1 27.817 201.20 139.73  
## - Channel85 1 28.374 201.75 140.33  
## - Channel73 1 32.575 205.96 144.76  
## - Channel71 1 32.732 206.11 144.92  
## - Channel52 1 34.175 207.56 146.42  
## - Channel54 1 35.939 209.32 148.24  
##   
## Step: AIC=108.3  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel6 +   
## Channel7 + Channel8 + Channel10 + Channel11 + Channel12 +   
## Channel13 + Channel14 + Channel15 + Channel16 + Channel17 +   
## Channel18 + Channel19 + Channel20 + Channel21 + Channel22 +   
## Channel23 + Channel24 + Channel25 + Channel26 + Channel27 +   
## Channel28 + Channel29 + Channel30 + Channel31 + Channel32 +   
## Channel34 + Channel36 + Channel37 + Channel39 + Channel40 +   
## Channel41 + Channel42 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel50 + Channel51 + Channel52 + Channel54 +   
## Channel55 + Channel56 + Channel59 + Channel60 + Channel61 +   
## Channel62 + Channel63 + Channel64 + Channel65 + Channel67 +   
## Channel68 + Channel69 + Channel71 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel84 + Channel85 + Channel87 + Channel88 +   
## Channel92 + Channel94 + Channel95 + Channel97 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel23 1 0.439 174.27 106.84  
## - Channel6 1 0.751 174.58 107.23  
## - Channel95 1 0.798 174.63 107.28  
## - Channel26 1 0.803 174.63 107.29  
## - Channel10 1 0.816 174.65 107.31  
## - Channel62 1 0.893 174.72 107.40  
## - Channel18 1 1.027 174.86 107.56  
## - Channel17 1 1.116 174.95 107.67  
## - Channel16 1 1.231 175.06 107.82  
## - Channel20 1 1.253 175.08 107.84  
## - Channel97 1 1.381 175.21 108.00  
## - Channel27 1 1.396 175.22 108.02  
## - Channel48 1 1.499 175.33 108.14  
## - Channel19 1 1.565 175.40 108.23  
## - Channel88 1 1.597 175.43 108.27  
## <none> 173.83 108.30  
## - Channel76 1 1.640 175.47 108.32  
## - Channel98 1 1.776 175.61 108.48  
## - Channel11 1 1.777 175.61 108.49  
## - Channel31 1 1.793 175.62 108.50  
## - Channel65 1 1.940 175.77 108.69  
## - Channel21 1 2.066 175.90 108.84  
## - Channel7 1 2.093 175.92 108.87  
## - Channel15 1 2.764 176.59 109.69  
## - Channel47 1 2.841 176.67 109.78  
## - Channel8 1 2.904 176.73 109.86  
## - Channel75 1 2.978 176.81 109.95  
## - Channel24 1 3.083 176.91 110.08  
## - Channel5 1 3.237 177.07 110.27  
## - Channel32 1 3.595 177.43 110.70  
## - Channel40 1 3.638 177.47 110.75  
## - Channel41 1 3.704 177.53 110.83  
## - Channel14 1 3.898 177.73 111.07  
## - Channel46 1 3.968 177.80 111.15  
## - Channel4 1 4.148 177.98 111.37  
## - Channel22 1 4.993 178.82 112.39  
## - Channel13 1 5.079 178.91 112.49  
## - Channel37 1 5.235 179.06 112.68  
## - Channel78 1 5.394 179.22 112.87  
## - Channel94 1 5.418 179.25 112.90  
## - Channel36 1 5.582 179.41 113.09  
## - Channel12 1 6.457 180.29 114.14  
## - Channel30 1 6.460 180.29 114.14  
## - Channel25 1 7.403 181.23 115.27  
## - Channel61 1 8.545 182.37 116.62  
## - Channel67 1 8.931 182.76 117.07  
## - Channel50 1 8.990 182.82 117.14  
## - Channel74 1 9.120 182.95 117.29  
## - Channel39 1 9.559 183.39 117.81  
## - Channel79 1 11.804 185.63 120.42  
## - Channel63 1 12.443 186.27 121.16  
## - Channel42 1 12.726 186.56 121.49  
## - Channel87 1 13.645 187.47 122.55  
## - Channel84 1 14.469 188.30 123.49  
## - Channel59 1 14.740 188.57 123.80  
## - Channel28 1 15.021 188.85 124.12  
## - Channel99 1 15.559 189.39 124.73  
## - Channel92 1 16.829 190.66 126.17  
## - Channel56 1 16.984 190.81 126.34  
## - Channel34 1 17.399 191.23 126.81  
## - Channel2 1 19.050 192.88 128.66  
## - Channel64 1 19.243 193.07 128.87  
## - Channel60 1 19.718 193.55 129.40  
## - Channel29 1 19.815 193.65 129.51  
## - Channel68 1 19.901 193.73 129.60  
## - Channel51 1 20.711 194.54 130.50  
## - Channel69 1 25.224 199.05 135.43  
## - Channel55 1 25.862 199.69 136.12  
## - Channel81 1 27.139 200.97 137.49  
## - Channel1 1 27.405 201.23 137.77  
## - Channel45 1 27.937 201.77 138.34  
## - Channel80 1 27.965 201.79 138.37  
## - Channel85 1 27.966 201.80 138.37  
## - Channel71 1 32.283 206.11 142.92  
## - Channel73 1 32.346 206.18 142.99  
## - Channel52 1 35.176 209.00 145.92  
## - Channel54 1 36.117 209.95 146.89  
##   
## Step: AIC=106.84  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel6 +   
## Channel7 + Channel8 + Channel10 + Channel11 + Channel12 +   
## Channel13 + Channel14 + Channel15 + Channel16 + Channel17 +   
## Channel18 + Channel19 + Channel20 + Channel21 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel27 + Channel28 +   
## Channel29 + Channel30 + Channel31 + Channel32 + Channel34 +   
## Channel36 + Channel37 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel62 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel73 + Channel74 + Channel75 +   
## Channel76 + Channel78 + Channel79 + Channel80 + Channel81 +   
## Channel84 + Channel85 + Channel87 + Channel88 + Channel92 +   
## Channel94 + Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel6 1 0.675 174.94 105.67  
## - Channel10 1 0.695 174.96 105.70  
## - Channel62 1 0.754 175.02 105.77  
## - Channel95 1 0.917 175.19 105.97  
## - Channel26 1 1.013 175.28 106.09  
## - Channel18 1 1.037 175.31 106.12  
## - Channel17 1 1.107 175.38 106.20  
## - Channel16 1 1.172 175.44 106.28  
## - Channel97 1 1.260 175.53 106.39  
## - Channel27 1 1.328 175.60 106.47  
## - Channel48 1 1.465 175.73 106.64  
## <none> 174.27 106.84  
## - Channel31 1 1.667 175.94 106.89  
## - Channel88 1 1.673 175.94 106.90  
## - Channel65 1 1.812 176.08 107.07  
## - Channel76 1 1.831 176.10 107.09  
## - Channel21 1 1.843 176.11 107.10  
## - Channel11 1 1.863 176.13 107.13  
## - Channel19 1 1.871 176.14 107.14  
## - Channel7 1 2.094 176.36 107.41  
## - Channel98 1 2.257 176.53 107.61  
## - Channel20 1 2.334 176.60 107.70  
## - Channel15 1 2.790 177.06 108.26  
## - Channel75 1 2.966 177.24 108.47  
## - Channel5 1 3.014 177.28 108.53  
## - Channel8 1 3.043 177.31 108.56  
## - Channel47 1 3.280 177.55 108.85  
## - Channel32 1 3.456 177.72 109.06  
## - Channel46 1 3.636 177.91 109.28  
## - Channel40 1 3.892 178.16 109.59  
## - Channel14 1 3.895 178.16 109.59  
## - Channel41 1 3.972 178.24 109.69  
## - Channel4 1 4.009 178.28 109.73  
## - Channel13 1 5.097 179.37 111.04  
## - Channel78 1 5.330 179.60 111.32  
## - Channel37 1 5.621 179.89 111.67  
## - Channel94 1 5.812 180.08 111.89  
## - Channel36 1 5.845 180.11 111.93  
## - Channel30 1 6.419 180.69 112.62  
## - Channel12 1 6.606 180.88 112.84  
## - Channel74 1 8.965 183.23 115.63  
## - Channel50 1 9.152 183.42 115.85  
## - Channel61 1 9.375 183.64 116.11  
## - Channel67 1 9.904 184.17 116.73  
## - Channel39 1 10.056 184.32 116.90  
## - Channel79 1 11.684 185.95 118.79  
## - Channel25 1 12.242 186.51 119.44  
## - Channel63 1 13.166 187.44 120.50  
## - Channel42 1 13.237 187.51 120.58  
## - Channel87 1 13.778 188.05 121.20  
## - Channel84 1 14.046 188.31 121.51  
## - Channel28 1 15.126 189.40 122.74  
## - Channel22 1 15.197 189.47 122.82  
## - Channel59 1 16.340 190.61 124.11  
## - Channel92 1 17.284 191.55 125.17  
## - Channel99 1 17.603 191.87 125.53  
## - Channel34 1 17.653 191.92 125.59  
## - Channel24 1 18.132 192.40 126.12  
## - Channel64 1 19.061 193.33 127.16  
## - Channel2 1 19.143 193.41 127.25  
## - Channel29 1 20.274 194.54 128.50  
## - Channel56 1 20.805 195.07 129.09  
## - Channel51 1 21.407 195.68 129.75  
## - Channel68 1 21.626 195.90 129.99  
## - Channel60 1 21.729 196.00 130.11  
## - Channel69 1 26.408 200.68 135.18  
## - Channel81 1 26.704 200.97 135.49  
## - Channel1 1 27.335 201.60 136.17  
## - Channel45 1 27.557 201.83 136.41  
## - Channel85 1 27.590 201.86 136.44  
## - Channel80 1 27.623 201.89 136.47  
## - Channel55 1 30.017 204.29 139.01  
## - Channel73 1 33.080 207.35 142.21  
## - Channel71 1 33.469 207.74 142.61  
## - Channel52 1 36.830 211.10 146.06  
## - Channel54 1 40.017 214.29 149.28  
##   
## Step: AIC=105.67  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel10 + Channel11 + Channel12 + Channel13 +   
## Channel14 + Channel15 + Channel16 + Channel17 + Channel18 +   
## Channel19 + Channel20 + Channel21 + Channel22 + Channel24 +   
## Channel25 + Channel26 + Channel27 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel62 + Channel63 +   
## Channel64 + Channel65 + Channel67 + Channel68 + Channel69 +   
## Channel71 + Channel73 + Channel74 + Channel75 + Channel76 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel84 +   
## Channel85 + Channel87 + Channel88 + Channel92 + Channel94 +   
## Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel62 1 0.687 175.63 104.52  
## - Channel10 1 0.738 175.68 104.58  
## - Channel18 1 0.790 175.73 104.64  
## - Channel95 1 0.916 175.86 104.80  
## - Channel16 1 1.049 175.99 104.96  
## - Channel17 1 1.144 176.09 105.07  
## - Channel97 1 1.187 176.13 105.13  
## - Channel27 1 1.215 176.16 105.16  
## - Channel26 1 1.271 176.22 105.23  
## <none> 174.94 105.67  
## - Channel11 1 1.653 176.60 105.69  
## - Channel48 1 1.702 176.65 105.75  
## - Channel65 1 1.761 176.71 105.83  
## - Channel88 1 1.784 176.73 105.85  
## - Channel19 1 1.851 176.79 105.94  
## - Channel76 1 1.860 176.80 105.95  
## - Channel31 1 1.942 176.88 106.05  
## - Channel21 1 1.949 176.89 106.06  
## - Channel20 1 2.083 177.03 106.22  
## - Channel98 1 2.212 177.16 106.37  
## - Channel7 1 2.213 177.16 106.38  
## - Channel8 1 2.371 177.31 106.57  
## - Channel15 1 2.902 177.85 107.21  
## - Channel75 1 3.044 177.99 107.38  
## - Channel47 1 3.194 178.14 107.56  
## - Channel14 1 3.682 178.62 108.15  
## - Channel32 1 3.858 178.80 108.36  
## - Channel41 1 4.088 179.03 108.64  
## - Channel46 1 4.122 179.06 108.68  
## - Channel40 1 4.204 179.15 108.78  
## - Channel4 1 4.235 179.18 108.81  
## - Channel13 1 4.715 179.66 109.39  
## - Channel78 1 5.346 180.29 110.14  
## - Channel5 1 5.787 180.73 110.67  
## - Channel12 1 6.201 181.14 111.16  
## - Channel94 1 6.205 181.15 111.17  
## - Channel30 1 6.868 181.81 111.95  
## - Channel36 1 6.961 181.91 112.06  
## - Channel37 1 7.187 182.13 112.33  
## - Channel74 1 9.048 183.99 114.52  
## - Channel61 1 9.111 184.05 114.59  
## - Channel50 1 9.745 184.69 115.33  
## - Channel67 1 10.284 185.23 115.95  
## - Channel39 1 11.311 186.25 117.14  
## - Channel79 1 11.854 186.80 117.77  
## - Channel25 1 12.899 187.84 118.97  
## - Channel63 1 13.305 188.25 119.43  
## - Channel42 1 13.434 188.38 119.58  
## - Channel84 1 14.193 189.14 120.44  
## - Channel87 1 14.466 189.41 120.75  
## - Channel22 1 15.241 190.18 121.63  
## - Channel28 1 15.948 190.89 122.43  
## - Channel59 1 16.648 191.59 123.22  
## - Channel99 1 17.280 192.22 123.92  
## - Channel2 1 18.515 193.46 125.30  
## - Channel34 1 18.536 193.48 125.33  
## - Channel92 1 18.589 193.53 125.38  
## - Channel24 1 18.653 193.60 125.45  
## - Channel64 1 19.298 194.24 126.17  
## - Channel56 1 20.961 195.90 128.00  
## - Channel29 1 21.310 196.25 128.39  
## - Channel60 1 21.876 196.82 129.00  
## - Channel51 1 22.324 197.27 129.49  
## - Channel68 1 22.761 197.70 129.97  
## - Channel1 1 26.966 201.91 134.49  
## - Channel81 1 27.785 202.73 135.36  
## - Channel85 1 28.000 202.94 135.59  
## - Channel69 1 28.419 203.36 136.04  
## - Channel80 1 28.610 203.55 136.24  
## - Channel45 1 29.070 204.01 136.72  
## - Channel55 1 30.000 204.94 137.70  
## - Channel73 1 33.366 208.31 141.20  
## - Channel71 1 34.556 209.50 142.43  
## - Channel52 1 37.655 212.60 145.59  
## - Channel54 1 39.974 214.92 147.92  
##   
## Step: AIC=104.52  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel10 + Channel11 + Channel12 + Channel13 +   
## Channel14 + Channel15 + Channel16 + Channel17 + Channel18 +   
## Channel19 + Channel20 + Channel21 + Channel22 + Channel24 +   
## Channel25 + Channel26 + Channel27 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel84 + Channel85 +   
## Channel87 + Channel88 + Channel92 + Channel94 + Channel95 +   
## Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel10 1 0.677 176.31 103.34  
## - Channel18 1 0.709 176.34 103.38  
## - Channel27 1 1.012 176.64 103.75  
## - Channel95 1 1.063 176.69 103.81  
## - Channel16 1 1.289 176.92 104.09  
## - Channel17 1 1.364 177.00 104.18  
## - Channel97 1 1.365 177.00 104.18  
## - Channel26 1 1.464 177.09 104.30  
## - Channel76 1 1.484 177.12 104.33  
## - Channel11 1 1.589 177.22 104.45  
## <none> 175.63 104.52  
## - Channel21 1 1.833 177.46 104.75  
## - Channel48 1 1.851 177.48 104.77  
## - Channel88 1 1.882 177.51 104.81  
## - Channel31 1 1.921 177.55 104.86  
## - Channel98 1 1.941 177.57 104.88  
## - Channel19 1 1.953 177.58 104.89  
## - Channel65 1 2.009 177.64 104.96  
## - Channel20 1 2.194 177.82 105.19  
## - Channel7 1 2.263 177.89 105.27  
## - Channel75 1 2.520 178.15 105.58  
## - Channel8 1 2.527 178.16 105.59  
## - Channel15 1 2.830 178.46 105.95  
## - Channel46 1 3.628 179.26 106.91  
## - Channel14 1 3.738 179.37 107.04  
## - Channel32 1 3.749 179.38 107.06  
## - Channel47 1 3.919 179.55 107.26  
## - Channel4 1 4.028 179.66 107.39  
## - Channel41 1 4.528 180.16 107.99  
## - Channel40 1 4.670 180.30 108.16  
## - Channel13 1 4.740 180.37 108.24  
## - Channel78 1 5.477 181.11 109.12  
## - Channel5 1 5.798 181.43 109.50  
## - Channel12 1 6.182 181.81 109.95  
## - Channel30 1 6.895 182.53 110.80  
## - Channel94 1 6.932 182.56 110.84  
## - Channel36 1 7.087 182.72 111.02  
## - Channel37 1 7.118 182.75 111.06  
## - Channel74 1 8.625 184.25 112.82  
## - Channel61 1 9.120 184.75 113.40  
## - Channel67 1 9.961 185.59 114.38  
## - Channel50 1 10.156 185.79 114.60  
## - Channel79 1 11.439 187.07 116.08  
## - Channel39 1 11.582 187.21 116.25  
## - Channel84 1 13.604 189.23 118.56  
## - Channel25 1 13.665 189.30 118.62  
## - Channel42 1 13.754 189.38 118.73  
## - Channel87 1 14.644 190.28 119.73  
## - Channel22 1 15.032 190.66 120.17  
## - Channel28 1 15.517 191.15 120.72  
## - Channel99 1 16.794 192.43 122.15  
## - Channel59 1 17.479 193.11 122.91  
## - Channel34 1 18.275 193.91 123.80  
## - Channel2 1 18.409 194.04 123.95  
## - Channel92 1 18.970 194.60 124.57  
## - Channel24 1 19.412 195.04 125.06  
## - Channel64 1 20.817 196.45 126.60  
## - Channel29 1 21.259 196.89 127.08  
## - Channel60 1 21.454 197.08 127.29  
## - Channel68 1 22.888 198.52 128.85  
## - Channel51 1 23.264 198.90 129.26  
## - Channel56 1 23.492 199.12 129.51  
## - Channel63 1 24.553 200.18 130.65  
## - Channel81 1 27.236 202.87 133.51  
## - Channel85 1 27.460 203.09 133.75  
## - Channel1 1 27.534 203.16 133.83  
## - Channel80 1 27.963 203.59 134.28  
## - Channel45 1 28.383 204.01 134.72  
## - Channel69 1 28.617 204.25 134.97  
## - Channel55 1 32.007 207.64 138.51  
## - Channel73 1 33.152 208.78 139.69  
## - Channel71 1 34.062 209.69 140.63  
## - Channel52 1 38.989 214.62 145.62  
## - Channel54 1 41.498 217.13 148.12  
##   
## Step: AIC=103.34  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel16 + Channel17 + Channel18 + Channel19 +   
## Channel20 + Channel21 + Channel22 + Channel24 + Channel25 +   
## Channel26 + Channel27 + Channel28 + Channel29 + Channel30 +   
## Channel31 + Channel32 + Channel34 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel45 +   
## Channel46 + Channel47 + Channel48 + Channel50 + Channel51 +   
## Channel52 + Channel54 + Channel55 + Channel56 + Channel59 +   
## Channel60 + Channel61 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel73 +   
## Channel74 + Channel75 + Channel76 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel84 + Channel85 + Channel87 +   
## Channel88 + Channel92 + Channel94 + Channel95 + Channel97 +   
## Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel18 1 0.555 176.86 102.02  
## - Channel11 1 0.916 177.22 102.46  
## - Channel27 1 0.948 177.26 102.50  
## - Channel95 1 1.000 177.31 102.56  
## - Channel16 1 1.085 177.39 102.66  
## - Channel17 1 1.179 177.49 102.78  
## - Channel97 1 1.258 177.57 102.87  
## - Channel76 1 1.425 177.73 103.07  
## - Channel21 1 1.608 177.92 103.30  
## <none> 176.31 103.34  
## - Channel26 1 1.719 178.03 103.43  
## - Channel48 1 1.965 178.27 103.72  
## - Channel7 1 2.053 178.36 103.83  
## - Channel31 1 2.085 178.39 103.87  
## - Channel88 1 2.193 178.50 104.00  
## - Channel98 1 2.225 178.53 104.04  
## - Channel19 1 2.305 178.61 104.14  
## - Channel75 1 2.507 178.81 104.38  
## - Channel15 1 2.511 178.82 104.38  
## - Channel65 1 2.518 178.83 104.39  
## - Channel20 1 2.580 178.89 104.47  
## - Channel8 1 3.035 179.34 105.01  
## - Channel14 1 3.284 179.59 105.31  
## - Channel46 1 3.409 179.72 105.46  
## - Channel32 1 4.042 180.35 106.22  
## - Channel13 1 4.181 180.49 106.38  
## - Channel40 1 4.249 180.56 106.46  
## - Channel41 1 4.313 180.62 106.54  
## - Channel4 1 4.522 180.83 106.79  
## - Channel47 1 4.674 180.98 106.97  
## - Channel12 1 5.510 181.82 107.96  
## - Channel5 1 5.693 182.00 108.17  
## - Channel78 1 5.888 182.20 108.41  
## - Channel94 1 6.631 182.94 109.28  
## - Channel37 1 6.960 183.27 109.67  
## - Channel30 1 7.228 183.54 109.98  
## - Channel36 1 7.457 183.76 110.25  
## - Channel74 1 8.369 184.68 111.31  
## - Channel67 1 9.286 185.59 112.38  
## - Channel61 1 9.419 185.73 112.53  
## - Channel50 1 9.671 185.98 112.82  
## - Channel39 1 10.955 187.26 114.30  
## - Channel79 1 11.556 187.86 114.99  
## - Channel42 1 13.733 190.04 117.47  
## - Channel84 1 13.769 190.08 117.51  
## - Channel25 1 14.753 191.06 118.62  
## - Channel22 1 14.760 191.07 118.63  
## - Channel87 1 15.391 191.70 119.34  
## - Channel28 1 16.208 192.52 120.25  
## - Channel59 1 17.173 193.48 121.33  
## - Channel99 1 17.766 194.07 121.98  
## - Channel92 1 18.435 194.74 122.72  
## - Channel2 1 19.338 195.65 123.72  
## - Channel34 1 19.787 196.09 124.21  
## - Channel24 1 20.335 196.64 124.81  
## - Channel60 1 21.313 197.62 125.88  
## - Channel64 1 22.064 198.37 126.69  
## - Channel29 1 22.205 198.51 126.85  
## - Channel68 1 22.626 198.93 127.30  
## - Channel51 1 22.655 198.96 127.33  
## - Channel56 1 23.082 199.39 127.79  
## - Channel63 1 25.588 201.90 130.48  
## - Channel81 1 27.024 203.33 132.00  
## - Channel1 1 27.173 203.48 132.16  
## - Channel80 1 27.975 204.28 133.01  
## - Channel85 1 28.079 204.39 133.12  
## - Channel45 1 28.278 204.59 133.32  
## - Channel69 1 28.326 204.63 133.38  
## - Channel55 1 31.591 207.90 136.78  
## - Channel73 1 32.763 209.07 137.99  
## - Channel71 1 33.402 209.71 138.64  
## - Channel52 1 38.403 214.71 143.71  
## - Channel54 1 41.074 217.38 146.37  
##   
## Step: AIC=102.02  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel16 + Channel17 + Channel19 + Channel20 +   
## Channel21 + Channel22 + Channel24 + Channel25 + Channel26 +   
## Channel27 + Channel28 + Channel29 + Channel30 + Channel31 +   
## Channel32 + Channel34 + Channel36 + Channel37 + Channel39 +   
## Channel40 + Channel41 + Channel42 + Channel45 + Channel46 +   
## Channel47 + Channel48 + Channel50 + Channel51 + Channel52 +   
## Channel54 + Channel55 + Channel56 + Channel59 + Channel60 +   
## Channel61 + Channel63 + Channel64 + Channel65 + Channel67 +   
## Channel68 + Channel69 + Channel71 + Channel73 + Channel74 +   
## Channel75 + Channel76 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel84 + Channel85 + Channel87 + Channel88 +   
## Channel92 + Channel94 + Channel95 + Channel97 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel27 1 0.801 177.66 100.99  
## - Channel11 1 0.845 177.71 101.04  
## - Channel16 1 0.888 177.75 101.10  
## - Channel95 1 1.079 177.94 101.33  
## - Channel97 1 1.250 178.11 101.53  
## - Channel76 1 1.286 178.15 101.58  
## - Channel21 1 1.577 178.44 101.93  
## <none> 176.86 102.02  
## - Channel7 1 1.895 178.76 102.31  
## - Channel26 1 1.932 178.80 102.36  
## - Channel31 1 1.975 178.84 102.41  
## - Channel88 1 2.055 178.92 102.50  
## - Channel98 1 2.242 179.10 102.73  
## - Channel48 1 2.309 179.17 102.81  
## - Channel75 1 2.404 179.27 102.92  
## - Channel65 1 2.406 179.27 102.92  
## - Channel17 1 2.845 179.71 103.45  
## - Channel20 1 2.868 179.73 103.48  
## - Channel8 1 2.926 179.79 103.55  
## - Channel15 1 3.158 180.02 103.82  
## - Channel14 1 3.477 180.34 104.20  
## - Channel46 1 3.519 180.38 104.25  
## - Channel40 1 3.916 180.78 104.73  
## - Channel32 1 3.954 180.82 104.77  
## - Channel41 1 4.008 180.87 104.84  
## - Channel13 1 4.080 180.94 104.92  
## - Channel4 1 4.209 181.07 105.08  
## - Channel19 1 4.522 181.38 105.45  
## - Channel47 1 4.821 181.69 105.80  
## - Channel12 1 5.314 182.18 106.38  
## - Channel5 1 5.457 182.32 106.55  
## - Channel78 1 6.294 183.16 107.54  
## - Channel94 1 6.423 183.29 107.69  
## - Channel37 1 6.948 183.81 108.30  
## - Channel30 1 7.030 183.89 108.40  
## - Channel36 1 7.800 184.66 109.30  
## - Channel74 1 8.421 185.28 110.02  
## - Channel61 1 9.044 185.91 110.74  
## - Channel67 1 9.297 186.16 111.03  
## - Channel50 1 10.486 187.35 112.40  
## - Channel39 1 10.503 187.37 112.42  
## - Channel79 1 13.244 190.11 115.55  
## - Channel42 1 13.350 190.21 115.66  
## - Channel84 1 13.607 190.47 115.95  
## - Channel25 1 14.491 191.35 116.95  
## - Channel22 1 14.777 191.64 117.27  
## - Channel87 1 15.012 191.88 117.53  
## - Channel28 1 15.839 192.70 118.46  
## - Channel59 1 16.781 193.64 119.51  
## - Channel99 1 17.440 194.30 120.24  
## - Channel92 1 17.984 194.85 120.84  
## - Channel2 1 19.189 196.05 122.17  
## - Channel24 1 19.923 196.79 122.97  
## - Channel34 1 20.282 197.15 123.36  
## - Channel60 1 20.768 197.63 123.89  
## - Channel29 1 21.855 198.72 125.07  
## - Channel64 1 21.975 198.84 125.20  
## - Channel68 1 22.379 199.24 125.64  
## - Channel56 1 23.243 200.11 126.56  
## - Channel51 1 23.749 200.61 127.11  
## - Channel63 1 25.525 202.39 129.00  
## - Channel81 1 26.968 203.83 130.53  
## - Channel1 1 27.230 204.09 130.81  
## - Channel85 1 27.568 204.43 131.16  
## - Channel69 1 27.921 204.78 131.53  
## - Channel45 1 28.594 205.46 132.24  
## - Channel80 1 29.147 206.01 132.82  
## - Channel55 1 31.586 208.45 135.35  
## - Channel73 1 32.402 209.26 136.19  
## - Channel71 1 32.849 209.71 136.65  
## - Channel52 1 39.162 216.03 143.02  
## - Channel54 1 41.011 217.88 144.85  
##   
## Step: AIC=100.99  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel16 + Channel17 + Channel19 + Channel20 +   
## Channel21 + Channel22 + Channel24 + Channel25 + Channel26 +   
## Channel28 + Channel29 + Channel30 + Channel31 + Channel32 +   
## Channel34 + Channel36 + Channel37 + Channel39 + Channel40 +   
## Channel41 + Channel42 + Channel45 + Channel46 + Channel47 +   
## Channel48 + Channel50 + Channel51 + Channel52 + Channel54 +   
## Channel55 + Channel56 + Channel59 + Channel60 + Channel61 +   
## Channel63 + Channel64 + Channel65 + Channel67 + Channel68 +   
## Channel69 + Channel71 + Channel73 + Channel74 + Channel75 +   
## Channel76 + Channel78 + Channel79 + Channel80 + Channel81 +   
## Channel84 + Channel85 + Channel87 + Channel88 + Channel92 +   
## Channel94 + Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel16 1 0.812 178.48 99.971  
## - Channel95 1 1.108 178.77 100.327  
## - Channel11 1 1.244 178.91 100.491  
## - Channel21 1 1.365 179.03 100.635  
## - Channel76 1 1.392 179.06 100.668  
## - Channel31 1 1.498 179.16 100.796  
## - Channel97 1 1.515 179.18 100.816  
## <none> 177.66 100.990  
## - Channel7 1 1.870 179.53 101.242  
## - Channel98 1 1.969 179.63 101.360  
## - Channel88 1 2.114 179.78 101.534  
## - Channel75 1 2.385 180.05 101.857  
## - Channel48 1 2.497 180.16 101.991  
## - Channel65 1 2.616 180.28 102.133  
## - Channel20 1 2.703 180.37 102.236  
## - Channel8 1 2.883 180.55 102.451  
## - Channel17 1 3.044 180.71 102.643  
## - Channel15 1 3.256 180.92 102.895  
## - Channel32 1 3.296 180.96 102.942  
## - Channel46 1 3.302 180.97 102.950  
## - Channel14 1 3.466 181.13 103.145  
## - Channel40 1 3.651 181.31 103.363  
## - Channel41 1 3.686 181.35 103.405  
## - Channel4 1 3.769 181.43 103.504  
## - Channel19 1 3.969 181.63 103.741  
## - Channel13 1 4.071 181.74 103.862  
## - Channel26 1 4.826 182.49 104.753  
## - Channel5 1 4.994 182.66 104.950  
## - Channel47 1 5.165 182.83 105.151  
## - Channel12 1 5.741 183.41 105.828  
## - Channel78 1 5.827 183.49 105.928  
## - Channel94 1 6.290 183.95 106.470  
## - Channel30 1 6.560 184.22 106.786  
## - Channel37 1 7.005 184.67 107.305  
## - Channel36 1 7.251 184.91 107.591  
## - Channel74 1 8.220 185.88 108.714  
## - Channel61 1 9.503 187.17 110.193  
## - Channel67 1 9.609 187.27 110.315  
## - Channel50 1 10.444 188.11 111.272  
## - Channel39 1 10.520 188.19 111.359  
## - Channel79 1 12.642 190.31 113.770  
## - Channel42 1 12.929 190.59 114.094  
## - Channel22 1 14.006 191.67 115.305  
## - Channel25 1 14.048 191.71 115.352  
## - Channel84 1 14.195 191.86 115.516  
## - Channel87 1 15.090 192.75 116.517  
## - Channel59 1 16.252 193.92 117.809  
## - Channel99 1 16.963 194.63 118.596  
## - Channel92 1 17.675 195.34 119.381  
## - Channel28 1 17.783 195.45 119.500  
## - Channel2 1 18.554 196.22 120.347  
## - Channel24 1 19.125 196.79 120.972  
## - Channel34 1 19.579 197.24 121.467  
## - Channel60 1 20.659 198.32 122.641  
## - Channel29 1 21.270 198.93 123.302  
## - Channel68 1 22.411 200.08 124.532  
## - Channel64 1 23.206 200.87 125.384  
## - Channel51 1 23.407 201.07 125.600  
## - Channel56 1 23.848 201.51 126.070  
## - Channel63 1 26.354 204.02 128.727  
## - Channel1 1 26.649 204.31 129.039  
## - Channel81 1 26.716 204.38 129.109  
## - Channel69 1 27.712 205.38 130.155  
## - Channel85 1 28.048 205.71 130.506  
## - Channel45 1 28.104 205.77 130.564  
## - Channel80 1 28.476 206.14 130.953  
## - Channel73 1 31.749 209.41 134.339  
## - Channel71 1 32.273 209.94 134.877  
## - Channel55 1 32.666 210.33 135.279  
## - Channel52 1 38.749 216.41 141.409  
## - Channel54 1 41.952 219.62 144.568  
##   
## Step: AIC=99.97  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel21 +   
## Channel22 + Channel24 + Channel25 + Channel26 + Channel28 +   
## Channel29 + Channel30 + Channel31 + Channel32 + Channel34 +   
## Channel36 + Channel37 + Channel39 + Channel40 + Channel41 +   
## Channel42 + Channel45 + Channel46 + Channel47 + Channel48 +   
## Channel50 + Channel51 + Channel52 + Channel54 + Channel55 +   
## Channel56 + Channel59 + Channel60 + Channel61 + Channel63 +   
## Channel64 + Channel65 + Channel67 + Channel68 + Channel69 +   
## Channel71 + Channel73 + Channel74 + Channel75 + Channel76 +   
## Channel78 + Channel79 + Channel80 + Channel81 + Channel84 +   
## Channel85 + Channel87 + Channel88 + Channel92 + Channel94 +   
## Channel95 + Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel21 1 0.973 179.45 99.140  
## - Channel95 1 0.994 179.47 99.165  
## - Channel31 1 1.316 179.79 99.551  
## - Channel76 1 1.379 179.86 99.627  
## - Channel97 1 1.551 180.03 99.832  
## <none> 178.48 99.971  
## - Channel98 1 1.759 180.24 100.080  
## - Channel7 1 1.838 180.31 100.174  
## - Channel11 1 2.226 180.70 100.636  
## - Channel17 1 2.246 180.72 100.660  
## - Channel75 1 2.309 180.79 100.735  
## - Channel48 1 2.354 180.83 100.789  
## - Channel88 1 2.398 180.88 100.841  
## - Channel65 1 2.587 181.06 101.065  
## - Channel32 1 2.886 181.36 101.420  
## - Channel8 1 3.106 181.58 101.681  
## - Channel40 1 3.253 181.73 101.854  
## - Channel46 1 3.294 181.77 101.903  
## - Channel41 1 3.487 181.96 102.132  
## - Channel20 1 3.860 182.34 102.572  
## - Channel4 1 3.924 182.40 102.648  
## - Channel26 1 4.797 183.27 103.673  
## - Channel47 1 4.998 183.47 103.909  
## - Channel19 1 5.039 183.52 103.958  
## - Channel5 1 5.137 183.61 104.073  
## - Channel94 1 5.796 184.27 104.843  
## - Channel13 1 5.910 184.39 104.976  
## - Channel78 1 6.088 184.56 105.183  
## - Channel14 1 6.147 184.62 105.252  
## - Channel37 1 6.524 185.00 105.690  
## - Channel30 1 6.604 185.08 105.783  
## - Channel36 1 6.828 185.31 106.044  
## - Channel12 1 7.974 186.45 107.369  
## - Channel74 1 8.297 186.77 107.741  
## - Channel61 1 9.352 187.83 108.951  
## - Channel67 1 9.554 188.03 109.183  
## - Channel39 1 9.781 188.26 109.442  
## - Channel50 1 10.159 188.64 109.874  
## - Channel79 1 12.711 191.19 112.763  
## - Channel42 1 12.806 191.28 112.870  
## - Channel15 1 13.287 191.76 113.410  
## - Channel22 1 13.376 191.85 113.510  
## - Channel25 1 14.364 192.84 114.614  
## - Channel84 1 14.648 193.12 114.930  
## - Channel87 1 15.545 194.02 115.926  
## - Channel99 1 16.296 194.77 116.756  
## - Channel59 1 16.366 194.84 116.835  
## - Channel92 1 16.863 195.34 117.382  
## - Channel28 1 17.773 196.25 118.381  
## - Channel2 1 18.560 197.04 119.242  
## - Channel34 1 18.772 197.25 119.473  
## - Channel24 1 19.417 197.89 120.175  
## - Channel60 1 20.664 199.14 121.525  
## - Channel29 1 21.745 200.22 122.690  
## - Channel68 1 22.052 200.53 123.019  
## - Channel51 1 22.832 201.31 123.853  
## - Channel64 1 22.974 201.45 124.005  
## - Channel56 1 23.195 201.67 124.240  
## - Channel63 1 25.912 204.39 127.118  
## - Channel1 1 26.422 204.90 127.654  
## - Channel81 1 26.851 205.33 128.103  
## - Channel69 1 27.365 205.84 128.641  
## - Channel45 1 27.950 206.43 129.251  
## - Channel80 1 28.082 206.56 129.388  
## - Channel85 1 28.453 206.93 129.774  
## - Channel55 1 31.859 210.34 133.284  
## - Channel73 1 32.014 210.49 133.443  
## - Channel71 1 32.342 210.82 133.778  
## - Channel52 1 37.940 216.42 139.412  
## - Channel54 1 41.186 219.66 142.612  
##   
## Step: AIC=99.14  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel84 + Channel85 +   
## Channel87 + Channel88 + Channel92 + Channel94 + Channel95 +   
## Channel97 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel95 1 0.881 180.33 98.193  
## - Channel76 1 1.175 180.62 98.543  
## - Channel97 1 1.519 180.97 98.952  
## - Channel31 1 1.601 181.05 99.050  
## <none> 179.45 99.140  
## - Channel98 1 1.691 181.14 99.156  
## - Channel7 1 1.860 181.31 99.357  
## - Channel75 1 2.043 181.49 99.574  
## - Channel17 1 2.157 181.61 99.709  
## - Channel48 1 2.214 181.66 99.776  
## - Channel88 1 2.279 181.73 99.854  
## - Channel65 1 2.783 182.23 100.449  
## - Channel46 1 3.175 182.62 100.910  
## - Channel40 1 3.205 182.65 100.946  
## - Channel8 1 3.234 182.68 100.980  
## - Channel32 1 3.285 182.73 101.040  
## - Channel11 1 3.450 182.90 101.234  
## - Channel41 1 3.555 183.00 101.357  
## - Channel4 1 4.403 183.85 102.352  
## - Channel47 1 4.985 184.44 103.031  
## - Channel26 1 5.115 184.56 103.182  
## - Channel94 1 5.552 185.00 103.691  
## - Channel5 1 5.573 185.02 103.715  
## - Channel37 1 6.545 186.00 104.842  
## - Channel36 1 6.797 186.25 105.133  
## - Channel78 1 6.807 186.26 105.145  
## - Channel30 1 7.099 186.55 105.481  
## - Channel14 1 7.569 187.02 106.022  
## - Channel74 1 7.715 187.16 106.190  
## - Channel13 1 7.896 187.35 106.398  
## - Channel19 1 9.141 188.59 107.821  
## - Channel39 1 9.607 189.06 108.352  
## - Channel67 1 9.703 189.15 108.462  
## - Channel50 1 9.873 189.32 108.655  
## - Channel61 1 10.340 189.79 109.185  
## - Channel12 1 10.823 190.27 109.731  
## - Channel79 1 13.035 192.48 112.216  
## - Channel42 1 13.037 192.49 112.218  
## - Channel25 1 14.106 193.56 113.409  
## - Channel84 1 14.165 193.62 113.475  
## - Channel15 1 14.468 193.92 113.811  
## - Channel87 1 15.000 194.45 114.399  
## - Channel99 1 15.980 195.43 115.480  
## - Channel92 1 16.808 196.26 116.390  
## - Channel59 1 16.946 196.40 116.541  
## - Channel2 1 18.085 197.53 117.785  
## - Channel28 1 18.235 197.68 117.947  
## - Channel24 1 18.504 197.95 118.240  
## - Channel34 1 18.995 198.44 118.773  
## - Channel60 1 21.695 201.15 121.678  
## - Channel68 1 22.015 201.46 122.019  
## - Channel29 1 22.300 201.75 122.324  
## - Channel51 1 22.345 201.79 122.372  
## - Channel64 1 23.265 202.71 123.349  
## - Channel56 1 23.577 203.03 123.680  
## - Channel20 1 25.177 204.63 125.368  
## - Channel1 1 25.598 205.05 125.810  
## - Channel63 1 26.378 205.83 126.626  
## - Channel81 1 26.597 206.05 126.854  
## - Channel69 1 26.922 206.37 127.193  
## - Channel85 1 27.557 207.01 127.854  
## - Channel80 1 27.682 207.13 127.984  
## - Channel45 1 27.718 207.17 128.021  
## - Channel73 1 31.189 210.64 131.594  
## - Channel55 1 31.924 211.37 132.342  
## - Channel71 1 32.494 211.94 132.922  
## - Channel22 1 33.041 212.49 133.476  
## - Channel52 1 37.335 216.78 137.777  
## - Channel54 1 40.926 220.38 141.309  
##   
## Step: AIC=98.19  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel84 + Channel85 +   
## Channel87 + Channel88 + Channel92 + Channel94 + Channel97 +   
## Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel97 1 0.663 180.99 96.982  
## - Channel76 1 1.446 181.78 97.910  
## - Channel7 1 1.611 181.94 98.105  
## - Channel31 1 1.648 181.98 98.149  
## <none> 180.33 98.193  
## - Channel48 1 1.824 182.15 98.356  
## - Channel88 1 2.196 182.53 98.795  
## - Channel65 1 2.489 182.82 99.140  
## - Channel17 1 2.492 182.82 99.143  
## - Channel75 1 2.684 183.01 99.369  
## - Channel8 1 2.802 183.13 99.508  
## - Channel46 1 2.996 183.33 99.736  
## - Channel40 1 3.006 183.34 99.748  
## - Channel11 1 3.190 183.52 99.963  
## - Channel98 1 3.273 183.60 100.060  
## - Channel41 1 3.363 183.69 100.166  
## - Channel32 1 3.375 183.71 100.179  
## - Channel47 1 4.794 185.12 101.833  
## - Channel26 1 5.116 185.45 102.207  
## - Channel4 1 5.145 185.47 102.241  
## - Channel37 1 5.901 186.23 103.116  
## - Channel36 1 6.069 186.40 103.309  
## - Channel5 1 6.876 187.21 104.239  
## - Channel30 1 6.973 187.30 104.349  
## - Channel14 1 7.277 187.61 104.698  
## - Channel13 1 7.660 187.99 105.136  
## - Channel78 1 7.899 188.23 105.410  
## - Channel74 1 8.444 188.78 106.032  
## - Channel19 1 8.894 189.22 106.544  
## - Channel39 1 9.321 189.65 107.029  
## - Channel50 1 9.575 189.91 107.315  
## - Channel94 1 9.669 190.00 107.422  
## - Channel12 1 10.741 191.07 108.632  
## - Channel61 1 11.069 191.40 109.000  
## - Channel67 1 11.580 191.91 109.574  
## - Channel42 1 12.796 193.13 110.932  
## - Channel84 1 13.419 193.75 111.624  
## - Channel79 1 13.539 193.87 111.758  
## - Channel25 1 14.043 194.37 112.316  
## - Channel87 1 14.407 194.74 112.718  
## - Channel15 1 14.498 194.83 112.818  
## - Channel92 1 16.009 196.34 114.479  
## - Channel2 1 17.328 197.66 115.919  
## - Channel59 1 18.359 198.69 117.038  
## - Channel24 1 18.401 198.73 117.082  
## - Channel34 1 18.430 198.76 117.114  
## - Channel28 1 18.635 198.97 117.336  
## - Channel99 1 18.992 199.32 117.721  
## - Channel29 1 22.220 202.55 121.176  
## - Channel64 1 22.497 202.83 121.469  
## - Channel51 1 22.898 203.23 121.894  
## - Channel60 1 24.410 204.74 123.487  
## - Channel1 1 24.765 205.09 123.860  
## - Channel20 1 24.850 205.18 123.949  
## - Channel63 1 25.553 205.88 124.685  
## - Channel81 1 25.751 206.08 124.892  
## - Channel68 1 26.390 206.72 125.557  
## - Channel56 1 26.475 206.81 125.645  
## - Channel85 1 27.040 207.37 126.232  
## - Channel80 1 27.093 207.42 126.286  
## - Channel45 1 27.224 207.55 126.422  
## - Channel69 1 31.358 211.69 130.663  
## - Channel73 1 31.766 212.10 131.076  
## - Channel22 1 32.608 212.94 131.929  
## - Channel71 1 34.000 214.33 133.330  
## - Channel55 1 36.927 217.26 136.246  
## - Channel52 1 41.075 221.41 140.312  
## - Channel54 1 48.369 228.70 147.281  
##   
## Step: AIC=96.98  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel75 + Channel76 + Channel78 +   
## Channel79 + Channel80 + Channel81 + Channel84 + Channel85 +   
## Channel87 + Channel88 + Channel92 + Channel94 + Channel98 +   
## Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel76 1 1.451 182.44 96.699  
## <none> 180.99 96.982  
## - Channel48 1 1.746 182.74 97.047  
## - Channel7 1 1.780 182.77 97.086  
## - Channel31 1 1.942 182.94 97.276  
## - Channel75 1 2.194 183.19 97.572  
## - Channel17 1 2.347 183.34 97.752  
## - Channel65 1 2.412 183.41 97.828  
## - Channel88 1 2.597 183.59 98.044  
## - Channel8 1 3.094 184.09 98.626  
## - Channel11 1 3.314 184.31 98.883  
## - Channel40 1 3.321 184.31 98.891  
## - Channel46 1 3.456 184.45 99.049  
## - Channel41 1 3.626 184.62 99.247  
## - Channel32 1 3.846 184.84 99.503  
## - Channel47 1 4.672 185.67 100.462  
## - Channel26 1 5.108 186.10 100.966  
## - Channel4 1 5.278 186.27 101.162  
## - Channel36 1 6.442 187.44 102.501  
## - Channel37 1 6.465 187.46 102.528  
## - Channel5 1 7.045 188.04 103.192  
## - Channel14 1 7.254 188.25 103.431  
## - Channel78 1 7.259 188.25 103.437  
## - Channel30 1 7.512 188.51 103.725  
## - Channel13 1 7.566 188.56 103.787  
## - Channel74 1 7.801 188.79 104.054  
## - Channel19 1 8.817 189.81 105.209  
## - Channel50 1 9.131 190.12 105.564  
## - Channel39 1 10.168 191.16 106.733  
## - Channel12 1 10.838 191.83 107.485  
## - Channel94 1 11.003 192.00 107.671  
## - Channel61 1 12.178 193.17 108.982  
## - Channel67 1 12.216 193.21 109.025  
## - Channel79 1 12.897 193.89 109.781  
## - Channel84 1 12.972 193.97 109.864  
## - Channel42 1 13.526 194.52 110.477  
## - Channel25 1 13.711 194.70 110.682  
## - Channel15 1 14.748 195.74 111.824  
## - Channel87 1 14.914 195.91 112.006  
## - Channel92 1 15.347 196.34 112.481  
## - Channel98 1 16.443 197.44 113.677  
## - Channel2 1 17.752 198.75 115.098  
## - Channel24 1 18.144 199.14 115.522  
## - Channel28 1 18.839 199.83 116.271  
## - Channel59 1 19.105 200.10 116.557  
## - Channel34 1 19.667 200.66 117.160  
## - Channel51 1 22.467 203.46 120.139  
## - Channel64 1 22.578 203.57 120.256  
## - Channel29 1 22.708 203.70 120.394  
## - Channel20 1 24.587 205.58 122.368  
## - Channel81 1 25.088 206.08 122.892  
## - Channel1 1 25.349 206.34 123.163  
## - Channel63 1 26.046 207.04 123.888  
## - Channel60 1 26.422 207.42 124.279  
## - Channel80 1 26.430 207.42 124.287  
## - Channel68 1 26.542 207.54 124.403  
## - Channel85 1 26.685 207.68 124.551  
## - Channel99 1 26.899 207.89 124.773  
## - Channel56 1 27.853 208.85 125.757  
## - Channel45 1 29.897 210.89 127.851  
## - Channel69 1 30.715 211.71 128.683  
## - Channel73 1 31.259 212.25 129.235  
## - Channel22 1 32.838 213.83 130.828  
## - Channel71 1 33.338 214.33 131.331  
## - Channel55 1 39.559 220.55 137.482  
## - Channel52 1 41.624 222.62 139.486  
## - Channel54 1 52.343 233.34 149.596  
##   
## Step: AIC=96.7  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel75 + Channel78 + Channel79 +   
## Channel80 + Channel81 + Channel84 + Channel85 + Channel87 +   
## Channel88 + Channel92 + Channel94 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel75 1 0.751 183.19 95.582  
## - Channel17 1 1.525 183.97 96.489  
## - Channel31 1 1.538 183.98 96.504  
## - Channel7 1 1.658 184.10 96.643  
## <none> 182.44 96.699  
## - Channel48 1 2.792 185.24 97.964  
## - Channel8 1 2.851 185.29 98.032  
## - Channel65 1 2.880 185.32 98.066  
## - Channel88 1 3.061 185.50 98.276  
## - Channel11 1 3.125 185.57 98.351  
## - Channel32 1 3.297 185.74 98.549  
## - Channel40 1 3.716 186.16 99.034  
## - Channel47 1 4.177 186.62 99.566  
## - Channel41 1 4.535 186.98 99.978  
## - Channel4 1 5.243 187.69 100.791  
## - Channel26 1 5.310 187.75 100.867  
## - Channel74 1 6.393 188.84 102.104  
## - Channel30 1 6.767 189.21 102.529  
## - Channel46 1 7.081 189.53 102.885  
## - Channel5 1 7.234 189.68 103.059  
## - Channel37 1 7.906 190.35 103.820  
## - Channel36 1 8.116 190.56 104.057  
## - Channel14 1 8.145 190.59 104.089  
## - Channel13 1 8.307 190.75 104.272  
## - Channel50 1 9.545 191.99 105.662  
## - Channel94 1 9.881 192.32 106.038  
## - Channel39 1 10.688 193.13 106.939  
## - Channel19 1 10.700 193.15 106.952  
## - Channel12 1 11.135 193.58 107.436  
## - Channel67 1 11.539 193.98 107.884  
## - Channel61 1 13.018 195.46 109.517  
## - Channel78 1 13.063 195.51 109.567  
## - Channel84 1 13.544 195.99 110.095  
## - Channel25 1 13.675 196.12 110.239  
## - Channel92 1 14.324 196.77 110.949  
## - Channel15 1 14.857 197.30 111.531  
## - Channel79 1 15.079 197.52 111.772  
## - Channel98 1 15.800 198.25 112.556  
## - Channel42 1 16.930 199.37 113.777  
## - Channel87 1 17.016 199.46 113.871  
## - Channel2 1 17.470 199.91 114.359  
## - Channel24 1 17.983 200.43 114.910  
## - Channel28 1 18.781 201.23 115.765  
## - Channel34 1 20.096 202.54 117.165  
## - Channel59 1 21.118 203.56 118.247  
## - Channel29 1 21.758 204.20 118.922  
## - Channel51 1 22.492 204.94 119.694  
## - Channel64 1 23.624 206.07 120.878  
## - Channel81 1 23.835 206.28 121.098  
## - Channel1 1 25.375 207.82 122.697  
## - Channel68 1 25.592 208.04 122.922  
## - Channel99 1 25.708 208.15 123.041  
## - Channel20 1 26.532 208.98 123.891  
## - Channel56 1 26.908 209.35 124.277  
## - Channel80 1 27.151 209.59 124.526  
## - Channel63 1 27.775 210.22 125.166  
## - Channel60 1 28.584 211.03 125.992  
## - Channel69 1 29.529 211.97 126.953  
## - Channel85 1 29.676 212.12 127.101  
## - Channel73 1 29.855 212.30 127.282  
## - Channel22 1 33.331 215.78 130.774  
## - Channel71 1 35.977 218.42 133.395  
## - Channel55 1 38.327 220.77 135.695  
## - Channel52 1 41.196 223.64 138.472  
## - Channel45 1 46.331 228.78 143.352  
## - Channel54 1 51.083 233.53 147.772  
##   
## Step: AIC=95.58  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel28 + Channel29 +   
## Channel30 + Channel31 + Channel32 + Channel34 + Channel36 +   
## Channel37 + Channel39 + Channel40 + Channel41 + Channel42 +   
## Channel45 + Channel46 + Channel47 + Channel48 + Channel50 +   
## Channel51 + Channel52 + Channel54 + Channel55 + Channel56 +   
## Channel59 + Channel60 + Channel61 + Channel63 + Channel64 +   
## Channel65 + Channel67 + Channel68 + Channel69 + Channel71 +   
## Channel73 + Channel74 + Channel78 + Channel79 + Channel80 +   
## Channel81 + Channel84 + Channel85 + Channel87 + Channel88 +   
## Channel92 + Channel94 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## - Channel31 1 1.683 184.88 95.548  
## <none> 183.19 95.582  
## - Channel17 1 1.733 184.93 95.606  
## - Channel7 1 1.827 185.02 95.715  
## - Channel48 1 2.480 185.68 96.473  
## - Channel65 1 2.547 185.74 96.550  
## - Channel11 1 3.128 186.32 97.222  
## - Channel32 1 3.208 186.40 97.314  
## - Channel8 1 3.342 186.54 97.468  
## - Channel88 1 3.544 186.74 97.702  
## - Channel47 1 4.214 187.41 98.472  
## - Channel4 1 4.556 187.75 98.864  
## - Channel40 1 4.585 187.78 98.896  
## - Channel41 1 4.938 188.13 99.300  
## - Channel26 1 5.402 188.60 99.829  
## - Channel46 1 6.508 189.70 101.087  
## - Channel5 1 6.653 189.85 101.252  
## - Channel14 1 7.883 191.08 102.639  
## - Channel13 1 8.140 191.34 102.929  
## - Channel30 1 8.207 191.40 103.004  
## - Channel36 1 8.216 191.41 103.014  
## - Channel37 1 8.348 191.54 103.162  
## - Channel50 1 9.462 192.66 104.409  
## - Channel74 1 9.473 192.67 104.422  
## - Channel94 1 10.036 193.23 105.048  
## - Channel19 1 10.527 193.72 105.594  
## - Channel12 1 11.066 194.26 106.191  
## - Channel67 1 12.025 195.22 107.250  
## - Channel39 1 12.591 195.79 107.873  
## - Channel84 1 12.880 196.07 108.189  
## - Channel78 1 13.001 196.20 108.323  
## - Channel92 1 13.631 196.83 109.012  
## - Channel61 1 13.903 197.10 109.308  
## - Channel15 1 14.865 198.06 110.356  
## - Channel25 1 15.081 198.28 110.590  
## - Channel79 1 15.208 198.40 110.728  
## - Channel98 1 15.280 198.48 110.806  
## - Channel42 1 16.870 200.06 112.521  
## - Channel2 1 17.189 200.38 112.863  
## - Channel87 1 17.599 200.79 113.303  
## - Channel34 1 19.747 202.94 115.591  
## - Channel59 1 20.462 203.66 116.347  
## - Channel24 1 21.427 204.62 117.363  
## - Channel28 1 21.431 204.63 117.367  
## - Channel64 1 22.875 206.07 118.879  
## - Channel51 1 23.182 206.38 119.200  
## - Channel81 1 23.299 206.49 119.321  
## - Channel68 1 24.847 208.04 120.927  
## - Channel99 1 25.261 208.46 121.354  
## - Channel1 1 26.225 209.42 122.346  
## - Channel80 1 26.665 209.86 122.798  
## - Channel20 1 26.671 209.87 122.804  
## - Channel29 1 26.890 210.09 123.028  
## - Channel63 1 27.037 210.23 123.179  
## - Channel60 1 28.294 211.49 124.460  
## - Channel85 1 29.167 212.36 125.346  
## - Channel56 1 29.751 212.95 125.936  
## - Channel69 1 32.183 215.38 128.378  
## - Channel73 1 32.248 215.44 128.443  
## - Channel22 1 36.937 220.13 133.072  
## - Channel71 1 41.632 224.83 137.609  
## - Channel55 1 42.720 225.91 138.647  
## - Channel52 1 44.113 227.31 139.969  
## - Channel45 1 45.766 228.96 141.527  
## - Channel54 1 56.706 239.90 151.561  
##   
## Step: AIC=95.55  
## fat ~ Channel1 + Channel2 + Channel4 + Channel5 + Channel7 +   
## Channel8 + Channel11 + Channel12 + Channel13 + Channel14 +   
## Channel15 + Channel17 + Channel19 + Channel20 + Channel22 +   
## Channel24 + Channel25 + Channel26 + Channel28 + Channel29 +   
## Channel30 + Channel32 + Channel34 + Channel36 + Channel37 +   
## Channel39 + Channel40 + Channel41 + Channel42 + Channel45 +   
## Channel46 + Channel47 + Channel48 + Channel50 + Channel51 +   
## Channel52 + Channel54 + Channel55 + Channel56 + Channel59 +   
## Channel60 + Channel61 + Channel63 + Channel64 + Channel65 +   
## Channel67 + Channel68 + Channel69 + Channel71 + Channel73 +   
## Channel74 + Channel78 + Channel79 + Channel80 + Channel81 +   
## Channel84 + Channel85 + Channel87 + Channel88 + Channel92 +   
## Channel94 + Channel98 + Channel99  
##   
## Df Sum of Sq RSS AIC  
## <none> 184.88 95.548  
## - Channel65 1 1.768 186.65 95.594  
## - Channel17 1 2.221 187.10 96.116  
## - Channel7 1 2.385 187.26 96.304  
## - Channel32 1 2.433 187.31 96.358  
## - Channel48 1 2.494 187.37 96.429  
## - Channel11 1 3.380 188.26 97.443  
## - Channel8 1 3.535 188.41 97.620  
## - Channel88 1 3.728 188.61 97.840  
## - Channel4 1 4.102 188.98 98.266  
## - Channel40 1 4.306 189.18 98.498  
## - Channel47 1 4.650 189.53 98.889  
## - Channel26 1 4.837 189.72 99.101  
## - Channel41 1 4.903 189.78 99.175  
## - Channel5 1 5.827 190.71 100.219  
## - Channel46 1 6.001 190.88 100.416  
## - Channel36 1 7.246 192.12 101.814  
## - Channel37 1 8.009 192.89 102.666  
## - Channel13 1 8.375 193.25 103.073  
## - Channel14 1 8.461 193.34 103.169  
## - Channel19 1 9.917 194.80 104.782  
## - Channel50 1 10.072 194.95 104.953  
## - Channel74 1 10.359 195.24 105.269  
## - Channel94 1 10.847 195.72 105.806  
## - Channel12 1 11.241 196.12 106.238  
## - Channel30 1 11.629 196.51 106.663  
## - Channel39 1 11.900 196.78 106.960  
## - Channel84 1 13.414 198.29 108.607  
## - Channel25 1 13.946 198.82 109.183  
## - Channel61 1 14.946 199.82 110.262  
## - Channel98 1 15.054 199.93 110.378  
## - Channel92 1 15.321 200.20 110.666  
## - Channel67 1 15.370 200.25 110.718  
## - Channel15 1 15.947 200.82 111.336  
## - Channel78 1 16.236 201.11 111.645  
## - Channel2 1 16.257 201.13 111.668  
## - Channel42 1 17.036 201.91 112.499  
## - Channel87 1 18.482 203.36 114.033  
## - Channel28 1 19.813 204.69 115.436  
## - Channel79 1 20.171 205.05 115.811  
## - Channel24 1 20.294 205.17 115.941  
## - Channel34 1 21.111 205.99 116.795  
## - Channel64 1 21.713 206.59 117.423  
## - Channel59 1 22.163 207.04 117.890  
## - Channel81 1 24.354 209.23 120.154  
## - Channel51 1 24.386 209.26 120.186  
## - Channel99 1 24.872 209.75 120.685  
## - Channel1 1 25.075 209.95 120.893  
## - Channel20 1 26.239 211.12 122.081  
## - Channel63 1 26.586 211.46 122.435  
## - Channel29 1 27.607 212.49 123.471  
## - Channel68 1 29.132 214.01 125.008  
## - Channel85 1 30.070 214.95 125.948  
## - Channel60 1 30.259 215.14 126.137  
## - Channel80 1 30.441 215.32 126.319  
## - Channel73 1 33.363 218.24 129.217  
## - Channel56 1 34.463 219.34 130.298  
## - Channel22 1 36.425 221.30 132.212  
## - Channel69 1 37.196 222.07 132.960  
## - Channel71 1 42.873 227.75 138.387  
## - Channel45 1 45.233 230.11 140.603  
## - Channel52 1 45.757 230.63 141.092  
## - Channel55 1 47.539 232.42 142.748  
## - Channel54 1 60.810 245.69 154.686

# 4.5, 4.6  
  
library(glmnet)

## Loading required package: Matrix

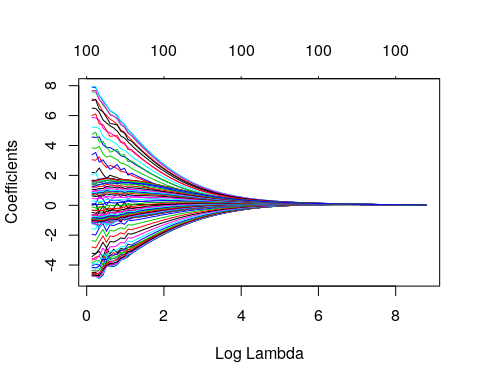
## Loading required package: foreach

## Loaded glmnet 2.0-18

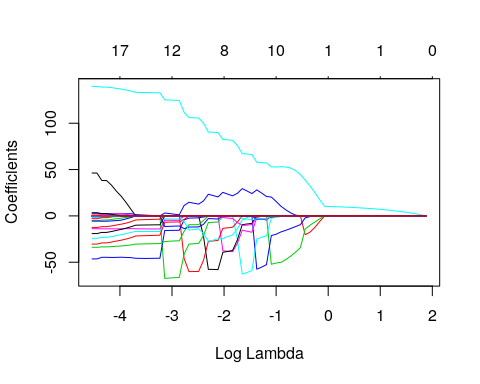
##   
## Attaching package: 'glmnet'

## The following object is masked from 'package:Metrics':  
##   
## auc

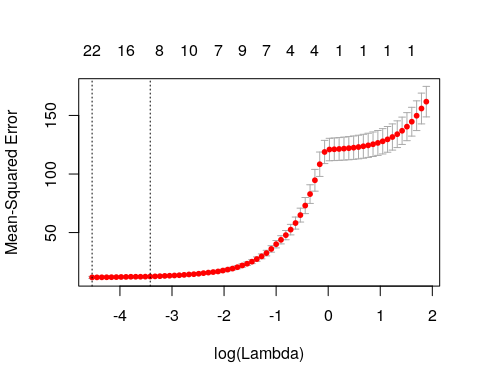
ridge <- glmnet(as.matrix(channel1\_100), data$Fat, alpha = 0, family = "gaussian")  
lasso <- glmnet(as.matrix(channel1\_100), data$Fat, alpha = 1, family = "gaussian")  
#bild 3  
plot(ridge, xvar = "lambda")



plot(lasso, xvar = "lambda")



#bild 4  
crossvalidation <- cv.glmnet(as.matrix(channel1\_100), data$Fat, alpha = 1, family = "gaussian")  
plot(crossvalidation)



print(crossvalidation$lambda.min)

## [1] 0.01072971

print(crossvalidation)

## $lambda  
## [1] 6.58364950 5.99877622 5.46586148 4.98028941 4.53785422 4.13472376  
## [7] 3.76740630 3.43272031 3.12776690 2.84990471 2.59672703 2.36604095  
## [13] 2.15584840 1.96432877 1.78982321 1.63082025 1.48594268 1.35393562  
## [19] 1.23365572 1.12406114 1.02420265 0.93321531 0.85031103 0.77477174  
## [25] 0.70594316 0.64322911 0.58608641 0.53402011 0.48657924 0.44335288  
## [31] 0.40396663 0.36807935 0.33538019 0.30558594 0.27843853 0.25370282  
## [37] 0.23116456 0.21062854 0.19191688 0.17486751 0.15933276 0.14517808  
## [43] 0.13228086 0.12052939 0.10982189 0.10006562 0.09117606 0.08307623  
## [49] 0.07569597 0.06897135 0.06284412 0.05726123 0.05217430 0.04753928  
## [55] 0.04331602 0.03946794 0.03596172 0.03276698 0.02985605 0.02720372  
## [61] 0.02478702 0.02258501 0.02057862 0.01875047 0.01708473 0.01556697  
## [67] 0.01418404 0.01292397 0.01177584 0.01072971  
##   
## $cvm  
## [1] 161.74804 155.90012 149.74899 144.64630 140.41369 136.90310 133.99163  
## [8] 131.57731 129.57546 127.91583 126.54012 125.39991 124.45507 123.67226  
## [15] 123.02382 122.48682 122.04221 121.67420 121.36969 121.11780 120.90952  
## [22] 118.81320 108.34044 94.66583 82.87139 73.06843 64.93370 58.14280  
## [29] 52.51983 47.84166 43.84002 40.11016 36.05373 32.50950 29.71013  
## [36] 27.38937 25.19025 23.43197 21.92801 20.46204 19.28487 18.43314  
## [43] 17.60043 16.83387 16.31770 15.86905 15.39427 14.88935 14.49790  
## [50] 14.27830 13.92296 13.61075 13.39513 13.18927 13.02785 12.79670  
## [57] 12.63365 12.51588 12.40978 12.32519 12.32200 12.30045 12.18321  
## [64] 12.11665 12.01240 11.94151 11.88563 11.83676 11.79069 11.76905  
##   
## $cvsd  
## [1] 13.0250627 13.1432089 12.6903730 12.3022406 11.9659702 11.6717708  
## [7] 11.4121592 11.1813836 10.9749850 10.7894675 10.6220532 10.4705012  
## [13] 10.3329750 10.2079452 10.0941184 9.9903845 9.8957792 9.8094547  
## [19] 9.7306592 9.6587207 9.5930349 9.8957412 10.4137234 9.2793945  
## [25] 7.9746484 6.8700392 5.9386656 5.1548902 4.4906982 3.9366991  
## [31] 3.4953421 3.1696423 2.7467472 2.3755992 2.0936823 1.8715075  
## [37] 1.6768484 1.5249433 1.4495299 1.3427895 1.2300945 1.1598424  
## [43] 1.0884117 1.0316026 0.9781581 0.9449111 0.9314884 0.8811339  
## [49] 0.8365238 0.8420842 0.8497349 0.8344935 0.8243943 0.8327670  
## [55] 0.8444297 0.8412492 0.8474206 0.8528831 0.8580020 0.8556323  
## [61] 0.8573710 0.8632700 0.8647911 0.8460087 0.8457381 0.8443480  
## [67] 0.8452513 0.8495305 0.8522064 0.8596000  
##   
## $cvup  
## [1] 174.77310 169.04333 162.43936 156.94854 152.37966 148.57487 145.40379  
## [8] 142.75869 140.55045 138.70530 137.16217 135.87042 134.78804 133.88020  
## [15] 133.11794 132.47720 131.93799 131.48366 131.10035 130.77652 130.50255  
## [22] 128.70894 118.75417 103.94522 90.84603 79.93847 70.87237 63.29769  
## [29] 57.01053 51.77836 47.33537 43.27980 38.80048 34.88509 31.80381  
## [36] 29.26088 26.86710 24.95691 23.37754 21.80483 20.51497 19.59298  
## [43] 18.68884 17.86547 17.29586 16.81396 16.32575 15.77049 15.33442  
## [50] 15.12039 14.77270 14.44524 14.21953 14.02203 13.87228 13.63795  
## [57] 13.48107 13.36876 13.26778 13.18082 13.17937 13.16372 13.04801  
## [64] 12.96266 12.85814 12.78585 12.73088 12.68629 12.64289 12.62865  
##   
## $cvlo  
## [1] 148.72298 142.75691 137.05862 132.34406 128.44772 125.23133 122.57948  
## [8] 120.39593 118.60048 117.12637 115.91806 114.92941 114.12209 113.46431  
## [15] 112.92970 112.49643 112.14643 111.86475 111.63903 111.45908 111.31648  
## [22] 108.91746 97.92672 85.38643 74.89674 66.19839 58.99504 52.98791  
## [29] 48.02913 43.90496 40.34468 36.94052 33.30699 30.13390 27.61645  
## [36] 25.51786 23.51340 21.90702 20.47848 19.11925 18.05478 17.27330  
## [43] 16.51201 15.80226 15.33954 14.92414 14.46278 14.00822 13.66138  
## [50] 13.43622 13.07323 12.77625 12.57074 12.35650 12.18342 11.95545  
## [57] 11.78623 11.66300 11.55178 11.46956 11.46463 11.43718 11.31842  
## [64] 11.27064 11.16666 11.09716 11.04038 10.98723 10.93848 10.90945  
##   
## $nzero  
## s0 s1 s2 s3 s4 s5 s6 s7 s8 s9 s10 s11 s12 s13 s14 s15 s16 s17 s18 s19   
## 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   
## s20 s21 s22 s23 s24 s25 s26 s27 s28 s29 s30 s31 s32 s33 s34 s35 s36 s37 s38 s39   
## 1 1 3 4 4 4 3 4 4 5 5 9 10 7 9 12 7 8 9 8   
## s40 s41 s42 s43 s44 s45 s46 s47 s48 s49 s50 s51 s52 s53 s54 s55 s56 s57 s58 s59   
## 7 8 8 7 8 8 9 8 10 10 11 9 10 12 12 8 11 13 14 14   
## s60 s61 s62 s63 s64 s65 s66 s67 s68 s69   
## 17 15 16 17 17 18 18 22 20 22   
##   
## $name  
## mse   
## "Mean-Squared Error"   
##   
## $glmnet.fit  
##   
## Call: glmnet(x = as.matrix(channel1\_100), y = data$Fat, alpha = 1, family = "gaussian")   
##   
## Df %Dev Lambda  
## [1,] 0 0.00000 6.58400  
## [2,] 1 0.04555 5.99900  
## [3,] 1 0.08337 5.46600  
## [4,] 1 0.11480 4.98000  
## [5,] 1 0.14080 4.53800  
## [6,] 1 0.16250 4.13500  
## [7,] 1 0.18040 3.76700  
## [8,] 1 0.19540 3.43300  
## [9,] 1 0.20770 3.12800  
## [10,] 1 0.21800 2.85000  
## [11,] 1 0.22650 2.59700  
## [12,] 1 0.23360 2.36600  
## [13,] 1 0.23950 2.15600  
## [14,] 1 0.24440 1.96400  
## [15,] 1 0.24850 1.79000  
## [16,] 1 0.25180 1.63100  
## [17,] 1 0.25460 1.48600  
## [18,] 1 0.25690 1.35400  
## [19,] 1 0.25890 1.23400  
## [20,] 1 0.26050 1.12400  
## [21,] 1 0.26180 1.02400  
## [22,] 1 0.26290 0.93320  
## [23,] 3 0.34690 0.85030  
## [24,] 4 0.43180 0.77480  
## [25,] 4 0.50260 0.70590  
## [26,] 4 0.56120 0.64320  
## [27,] 3 0.61050 0.58610  
## [28,] 4 0.65100 0.53400  
## [29,] 4 0.68480 0.48660  
## [30,] 5 0.71300 0.44340  
## [31,] 5 0.73650 0.40400  
## [32,] 9 0.76200 0.36810  
## [33,] 10 0.78520 0.33540  
## [34,] 7 0.80720 0.30560  
## [35,] 9 0.82330 0.27840  
## [36,] 12 0.83680 0.25370  
## [37,] 7 0.85200 0.23120  
## [38,] 8 0.86160 0.21060  
## [39,] 9 0.86980 0.19190  
## [40,] 8 0.87950 0.17490  
## [41,] 7 0.88670 0.15930  
## [42,] 8 0.89150 0.14520  
## [43,] 8 0.89580 0.13230  
## [44,] 7 0.90080 0.12050  
## [45,] 8 0.90350 0.10980  
## [46,] 8 0.90590 0.10010  
## [47,] 9 0.90970 0.09118  
## [48,] 8 0.91260 0.08308  
## [49,] 10 0.91390 0.07570  
## [50,] 10 0.91500 0.06897  
## [51,] 11 0.91740 0.06284  
## [52,] 9 0.92070 0.05726  
## [53,] 10 0.92130 0.05217  
## [54,] 12 0.92190 0.04754  
## [55,] 12 0.92240 0.04332  
## [56,] 8 0.92620 0.03947  
## [57,] 11 0.92630 0.03596  
## [58,] 13 0.92670 0.03277  
## [59,] 14 0.92690 0.02986  
## [60,] 14 0.92710 0.02720  
## [61,] 17 0.92740 0.02479  
## [62,] 15 0.93000 0.02259  
## [63,] 16 0.93220 0.02058  
## [64,] 17 0.93400 0.01875  
## [65,] 17 0.93540 0.01708  
## [66,] 18 0.93680 0.01557  
## [67,] 18 0.93790 0.01418  
## [68,] 22 0.93790 0.01292  
## [69,] 20 0.93940 0.01178  
## [70,] 22 0.93940 0.01073  
##   
## $lambda.min  
## [1] 0.01072971  
##   
## $lambda.1se  
## [1] 0.03276698  
##   
## attr(,"class")  
## [1] "cv.glmnet"