

Figure 1 consists of three vertically stacked panels sharing a common x-axis labeled "Gene List Index" with major ticks at 0, 5000, 10000, and 15000. Below the x-axis, a caption reads: "Number of genes: 17824 (in list), 71 (in gene set)".

- Top Panel:** A blue line graph showing the number of genes (y-axis) versus the Gene List Index (x-axis). The line starts at a high value, decreases steadily, and then rises sharply after index 15000. A vertical green dotted line marks the "Zero crossing at 8216". A vertical blue dotted line marks the "Peak at 15679". A horizontal dashed line is at the top of the plot.
- Middle Panel:** A series of vertical black bars of varying heights, representing the distribution of genes across the index. The bars are more frequent and taller in the region between the zero crossing and the peak.
- Bottom Panel:** A green area plot showing the distribution of genes. The area is labeled "clus4" on the left and "NON.clus4" on the right. The area is mostly green, with a small black area at the bottom right.

Gene Set Null Density

Observed Gene Set ES value

P(ES)

Neg. ES "NON.clus4"

Pos. ES: "clus4"

ES

ES = -0.718 NES = -1.54 Nom. p-val= 0.0456 FWER= 0.966 FDR= 1

Heatmap visualization showing the expression of 100 genes across 100 samples, categorized into two groups: **clus4** and **NON.clus4**. The color scale ranges from -2 (blue) to 2 (red).

Gene List (Rows):

- Class
- TAF1B
- TAF1A
- KAT2B
- ERCC6
- GTF3H1
- POLR1A
- POLR1B
- ERCC3
- H3F3B
- POLR1D
- CCNH
- GTF3H3
- POLR1C
- MEB2
- P1NF
- MAPK3
- CSK3
- GTF2H4
- HIST2H2AC
- CDK7
- H3F3A
- POLR2K
- HIST1H4J
- UBTF
- EHMT2
- MNAT1
- RN3
- ERCC2
- GTF2H2B
- GTF2H2
- TAF7C
- HIST1H3B
- AF2
- HIST1H4A
- POLR2H
- HIST1H4C
- HIST2H2B
- HIST2H4A
- HIST1H4B
- HIST1H4D
- HIST1H2B1
- HIST1H3C
- HIST1H2B
- HIST1H2B2
- HIST1H2B3
- HIST1H2B4
- HIST1H2B5
- HIST1H2B6
- HIST1H2B7
- HIST1H2B8
- HIST1H2B9
- HIST1H2B10
- HIST1H2B11
- HIST1H2B12
- HIST1H2B13
- HIST1H2B14
- HIST1H2B15
- HIST1H2B16
- HIST1H2B17
- HIST1H2B18
- HIST1H2B19
- HIST1H2B20
- HIST1H2B21
- HIST1H2B22
- HIST1H2B23
- HIST1H2B24
- HIST1H2B25
- HIST1H2B26
- HIST1H2B27
- HIST1H2B28
- HIST1H2B29
- HIST1H2B30
- HIST1H2B31
- HIST1H2B32
- HIST1H2B33
- HIST1H2B34
- HIST1H2B35
- HIST1H2B36
- HIST1H2B37
- HIST1H2B38
- HIST1H2B39
- HIST1H2B40
- HIST1H2B41
- HIST1H2B42
- HIST1H2B43
- HIST1H2B44
- HIST1H2B45
- HIST1H2B46
- HIST1H2B47
- HIST1H2B48
- HIST1H2B49
- HIST1H2B50
- HIST1H2B51
- HIST1H2B52
- HIST1H2B53
- HIST1H2B54
- HIST1H2B55
- HIST1H2B56
- HIST1H2B57
- HIST1H2B58
- HIST1H2B59
- HIST1H2B60
- HIST1H2B61
- HIST1H2B62
- HIST1H2B63
- HIST1H2B64
- HIST1H2B65
- HIST1H2B66
- HIST1H2B67
- HIST1H2B68
- HIST1H2B69
- HIST1H2B70
- HIST1H2B71
- HIST1H2B72
- HIST1H2B73
- HIST1H2B74
- HIST1H2B75
- HIST1H2B76
- HIST1H2B77
- HIST1H2B78
- HIST1H2B79
- HIST1H2B80
- HIST1H2B81
- HIST1H2B82
- HIST1H2B83
- HIST1H2B84
- HIST1H2B85
- HIST1H2B86
- HIST1H2B87
- HIST1H2B88
- HIST1H2B89
- HIST1H2B90
- HIST1H2B91
- HIST1H2B92
- HIST1H2B93
- HIST1H2B94
- HIST1H2B95
- HIST1H2B96
- HIST1H2B97
- HIST1H2B98
- HIST1H2B99
- HIST1H2B100

Sample List (Columns):

- TCGA_A1_1035_01
- TCGA_A1_1036_01
- TCGA_A1_1037_01
- TCGA_A1_1038_01
- TCGA_A1_1039_01
- TCGA_A1_1040_01
- TCGA_A1_1041_01
- TCGA_A1_1042_01
- TCGA_A1_1043_01
- TCGA_A1_1044_01
- TCGA_A1_1045_01
- TCGA_A1_1046_01
- TCGA_A1_1047_01
- TCGA_A1_1048_01
- TCGA_A1_1049_01
- TCGA_A1_1050_01
- TCGA_A1_1051_01
- TCGA_A1_1052_01
- TCGA_A1_1053_01
- TCGA_A1_1054_01
- TCGA_A1_1055_01
- TCGA_A1_1056_01
- TCGA_A1_1057_01
- TCGA_A1_1058_01
- TCGA_A1_1059_01
- TCGA_A1_1060_01
- TCGA_A1_1061_01
- TCGA_A1_1062_01
- TCGA_A1_1063_01
- TCGA_A1_1064_01
- TCGA_A1_1065_01
- TCGA_A1_1066_01
- TCGA_A1_1067_01
- TCGA_A1_1068_01
- TCGA_A1_1069_01
- TCGA_A1_1070_01
- TCGA_A1_1071_01
- TCGA_A1_1072_01
- TCGA_A1_1073_01
- TCGA_A1_1074_01
- TCGA_A1_1075_01
- TCGA_A1_1076_01
- TCGA_A1_1077_01
- TCGA_A1_1078_01
- TCGA_A1_1079_01
- TCGA_A1_1080_01
- TCGA_A1_1081_01
- TCGA_A1_1082_01
- TCGA_A1_1083_01
- TCGA_A1_1084_01
- TCGA_A1_1085_01
- TCGA_A1_1086_01
- TCGA_A1_1087_01
- TCGA_A1_1088_01
- TCGA_A1_1089_01
- TCGA_A1_1090_01
- TCGA_A1_1091_01
- TCGA_A1_1092_01
- TCGA_A1_1093_01
- TCGA_A1_1094_01
- TCGA_A1_1095_01
- TCGA_A1_1096_01
- TCGA_A1_1097_01
- TCGA_A1_1098_01
- TCGA_A1_1099_01
- TCGA_A1_1100_01
- TCGA_A1_1101_01
- TCGA_A1_1102_01
- TCGA_A1_1103_01
- TCGA_A1_1104_01
- TCGA_A1_1105_01
- TCGA_A1_1106_01
- TCGA_A1_1107_01
- TCGA_A1_1108_01
- TCGA_A1_1109_01
- TCGA_A1_1110_01
- TCGA_A1_1111_01
- TCGA_A1_1112_01
- TCGA_A1_1113_01
- TCGA_A1_1114_01
- TCGA_A1_1115_01
- TCGA_A1_1116_01
- TCGA_A1_1117_01
- TCGA_A1_1118_01
- TCGA_A1_1119_01
- TCGA_A1_1120_01
- TCGA_A1_1121_01
- TCGA_A1_1122_01
- TCGA_A1_1123_01
- TCGA_A1_1124_01
- TCGA_A1_1125_01
- TCGA_A1_1126_01
- TCGA_A1_1127_01
- TCGA_A1_1128_01
- TCGA_A1_1129_01
- TCGA_A1_1130_01
- TCGA_A1_1131_01
- TCGA_A1_1132_01
- TCGA_A1_1133_01
- TCGA_A1_1134_01
- TCGA_A1_1135_01
- TCGA_A1_1136_01
- TCGA_A1_1137_01
- TCGA_A1_1138_01
- TCGA_A1_1139_01
- TCGA_A1_1140_01
- TCGA_A1_1141_01
- TCGA_A1_1142_01
- TCGA_A1_1143_01
- TCGA_A1_1144_01
- TCGA_A1_1145_01
- TCGA_A1_1146_01
- TCGA_A1_1147_01
- TCGA_A1_1148_01
- TCGA_A1_1149_01
- TCGA_A1_1150_01
- TCGA_A1_1151_01
- TCGA_A1_1152_01
- TCGA_A1_1153_01
- TCGA_A1_1154_01
- TCGA_A1_1155_01
- TCGA_A1_1156_01
- TCGA_A1_1