

Figure 1 consists of three vertically stacked panels sharing a common x-axis labeled "Gene List Index" ranging from 0 to 17,824. The top panel is a red line graph showing the number of gene lists (y-axis) versus the Gene List Index. The curve starts at 0, rises sharply to a peak at index 2724, and then gradually declines, crossing the x-axis at index 9125. A horizontal dashed line is drawn across the plot. The middle panel is a barcode plot showing vertical lines of varying heights representing gene lists. The bottom panel is a green area plot showing the distribution of gene lists. The area is labeled "clus4" on the left and "NON.clus4" on the right. The x-axis is also labeled "Number of genes: 17824 (in list), 54 (in gene set)".

A density plot showing the probability density function (PDF) of ES values. The x-axis is labeled 'ES' and ranges from -0.5 to 0.5. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.35 (height ~2.2) and 0.35 (height ~1.6). A vertical black line at ES = 0.462 represents the 'Observed Gene Set ES value'. The area under the red curve to the left of this line is shaded light blue and labeled 'Neg. ES "NON.clus4"'. The area to the right is labeled 'Pos. ES: "clus4"'. Below the x-axis, the following statistics are displayed: ES = 0.462 NES = 1.19 Nom. p-val= 0.206 FWER= 0.986 FDR= 1.

clus4 **NON.clus4**

Class

WNT3

GLI1

WNT10A

BMP5

WNT2B

GLI2

RAB23

SHH

IHH

GAS1

GLI3

PTCH2

BMP8B

BMP4

WNT7B

WNT5B

IHH

ZIC2

PRKX

SMO

STK36

BMP8A

WNT10B

SUFU

WNT1

BTRC

PRKACG

WNT6

CSNK1G3

GSXB

CSNK1D

FBXW11

CSNK1G1

WNT9B

CSNK1A1

PRKACB

WNT7A

DHH

WNT9A

PRKACA

CSNK1G2

CSNK1A11

WNT5A

CSNK1E

BMP7

WNT16

LRP2

BMP6

WNT2

BMP2

PTCH1

WNT8B

WNT11

WNT4

TGGA_AL_1332_01

TGGA_AL_1334_01

TGGA_AL_1429_01

TGGA_AL_1477_01

TGGA_AL_1839_01

TGGA_AL_1837_01

TGGA_AL_1844_01

TGGA_AL_1824_01

TGGA_AL_1324_01

TGGA_AL_1325_01

TGGA_AL_1327_01

TGGA_AL_1328_01

TGGA_AL_1329_01

TGGA_AL_1330_01

TGGA_AL_1331_01

TGGA_AL_1332_01

TGGA_AL_1333_01

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TGGA_AL_1335_01

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TGGA_AL_1444_01

TGGA_AL_1445_01

TGGA_AL_1446_01

TGGA_AL_1447_01