

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, text indicates "Number of genes: 18525 (in list), 95 (in gene set)".

- Top Panel:** A red line graph representing the number of genes in the *clus2* cluster. It starts at 0, rises to a peak labeled "Peak at 2888" (indicated by a red dotted vertical line), then gradually declines, crossing the zero baseline (indicated by a green dotted vertical line) at a point labeled "Zero crossing at 8627". A horizontal dashed line is drawn at the peak level.
- Middle Panel:** A barcode plot showing vertical black lines of varying heights, representing the number of genes in *clus2* for each gene in the list.
- Bottom Panel:** A green area plot showing the distribution of genes. The area under the curve is labeled "clus2" on the left and "NON.clus2" on the right, indicating the transition from genes in the cluster to those not in the cluster.

A density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0 to 4. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.25 and 0.25. A vertical black line represents the 'Observed Gene Set ES value' at approximately 0.414. The area under the red curve to the right of this line is shaded in light red. Text labels on the x-axis indicate 'Neg. ES "NON.clus2"' for the left peak and 'Pos. ES: "clus2"' for the right peak. At the bottom, a summary line reads: 'ES = 0.414 NES = 1.46 Nom. p-val= 0.0429 FWER= 0.923 FDR= 1'.

	clus2	NON.clus2
C14orf103		
PLAZ2A4		
LIML1		
CACNA1B		
PLAZ2B1		
CALML5		
PRKCA		
PLCB4		
ITPR2		
GRK5		
MAP2K2		
CAKAP1		
CACNA1D		
PLAZ2B8		
PLAZ2B		
CALML6		
CACNA1F		
CACNA1C		
PLCB1		
ADCY2		
GRK4		
ADCY4		
GRK11		
CAMK2A		
MAPK11		
MAP2K4		
MAPK9		
PRKACB		
PLAZ2B1		
PLAZ2B		
MAPK7		
ITPR1		
PLCB2		
MAP2K2		
PLAZ2B1		
PLAZ2B		
ITPR3		
MAPK9		
MAPK1		
ITP4		
CANT1		
HRAS		
MAP3K4		
MAPK1		
MAPK4		
EGFR		
PLCB2		
SRG		
PLAZ2A		
MAP2K7		
ITN		
PLAZ2B1		
MAPK12		
PTK2B		
CACNA2		
MAP1K2		
IKT1		
ROS2		
NRAS		
PRKCB		
CALM1		
RAF1		
MAPK13		
PRKCA		
GRB2		
MAPK14		
MAP3K1		
PRKX		
ROS1		
PLAZ2B1		
PLD1		
PLAZ2A		
MAPK3		
PLCB2		
CACNA1F		
PRKCD		
PLAZ2B		
ITN		
CAMK2A		
MAPK9		
MAPK10		
ADCY3		