

Figure 1: A multi-panel plot showing the distribution of genes in a gene set. The top panel is a red line graph of the number of genes in the gene set versus the Gene List Index, peaking at 3572 and crossing zero at 8081. The middle panel is a barcode plot showing the number of genes in the gene set versus the Gene List Index, with a peak at 3572 and a zero crossing at 8081. The bottom panel is a green area plot showing the number of genes in the gene set versus the Gene List Index, with a peak at 3572 and a zero crossing at 8081. The x-axis for all panels is the Gene List Index, ranging from 0 to 18,169. The y-axis for the top panel is the number of genes in the gene set, ranging from 0 to 18,169. The y-axis for the middle panel is the number of genes in the gene set, ranging from 0 to 18,169. The y-axis for the bottom panel is the number of genes in the gene set, ranging from 0 to 18,169.

The figure is a density plot showing the probability density function (PDF) 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 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.2 (P ≈ 2.1) and 0.2 (P ≈ 2.0). A vertical black line at ES = 0.464 represents the 'Observed Gene Set ES value'. The area under the red curve to the right of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus1"' for negative values and 'Pos. ES: "clus1"' for positive values. At the bottom, statistical results are provided: ES = 0.464, NES = 1.67, Nom. p-val = 0.0236, FWER = 0.875, and FDR = 0.134.

Statistic	Value
ES	0.464
NES	1.67
Nom. p-val	0.0236
FWER	0.875
FDR	0.134

Class	Gene	Chromosome	Start (kb)	End (kb)	Score
Class 1	BTX1	CD14	1.54	1.54	1.54
	CD14	1.54	1.54	1.54	1.54
	LY86	1.54	1.54	1.54	1.54
	TLR6	1.54	1.54	1.54	1.54
	TLR6	1.54	1.54	1.54	1.54
	TLR1	1.54	1.54	1.54	1.54
	SGRN	1.54	1.54	1.54	1.54
	IRAK3	1.54	1.54	1.54	1.54
	STX12	1.54	1.54	1.54	1.54
	IRF7	1.54	1.54	1.54	1.54
Class 2	RPS9KA2	1.54	1.54	1.54	1.54
	RPS9KA1	1.54	1.54	1.54	1.54
	TRAF3	1.54	1.54	1.54	1.54
	MYD88	1.54	1.54	1.54	1.54
	SAAI	1.54	1.54	1.54	1.54
	STO8	1.54	1.54	1.54	1.54
	IRAK2	1.54	1.54	1.54	1.54
	MD2	1.54	1.54	1.54	1.54
	MAP3K1	1.54	1.54	1.54	1.54
	MD1	1.54	1.54	1.54	1.54
Class 3	MAP2K3	1.54	1.54	1.54	1.54
	DUSP4	1.54	1.54	1.54	1.54
	NFKB1	1.54	1.54	1.54	1.54
	IRAK4	1.54	1.54	1.54	1.54
	NFIB2	1.54	1.54	1.54	1.54
	MAP3K4	1.54	1.54	1.54	1.54
	NFKBIA	1.54	1.54	1.54	1.54
	MAP3K6	1.54	1.54	1.54	1.54
	DUSP6	1.54	1.54	1.54	1.54
	MAP3K5	1.54	1.54	1.54	1.54
Class 4	TMEM189	1.54	1.54	1.54	1.54
	UBE2V1	1.54	1.54	1.54	1.54
	IRF3	1.54	1.54	1.54	1.54
	MAPK3	1.54	1.54	1.54	1.54
	UBA52	1.54	1.54	1.54	1.54
	DUSP7	1.54	1.54	1.54	1.54
	ATF1	1.54	1.54	1.54	1.54
	MAP2K1	1.54	1.54	1.54	1.54
	TRAF1	1.54	1.54	1.54	1.54
	RPS27A	1.54	1.54	1.54	1.54
Class 5	MD1A	1.54	1.54	1.54	1.54
	PPP2R1A	1.54	1.54	1.54	1.54
	MAPKAPK2	1.54	1.54	1.54	1.54
	APP	1.54	1.54	1.54	1.54
	RPS9KA3	1.54	1.54	1.54	1.54
	TLR3	1.54	1.54	1.54	1.54
	ECST	1.54	1.54	1.54	1.54
	MAPK14	1.54	1.54	1.54	1.54
	NELA	1.54	1.54	1.54	1.54
	TAB2	1.54	1.54	1.54	1.54
Class 6	PPP1R16	1.54	1.54	1.54	1.54
	TRK1	1.54	1.54	1.54	1.54
	CK1	1.54	1.54	1.54	1.54
	MAPK9	1.54	1.54	1.54	1.54
	ELK1	1.54	1.54	1.54	1.54
	PPP2R3D	1.54	1.54	1.54	1.54
	HMG1	1.54	1.54	1.54	1.54
	PPP2CB	1.54	1.54	1.54	1.54
	PPP1CA	1.54	1.54	1.54	1.54
	MAPK7	1.54	1.54	1.54	1.54
Class 7	UBE2A	1.54	1.54	1.54	1.54
	IRK1B	1.54	1.54	1.54	1.54
	MAPK7	1.54	1.54	1.54	1.54
	MAPK7	1.54	1.54	1.54	1.54
	TAB1	1.54	1.54	1.54	1.54
	MAP2K7	1.54	1.54	1.54	1.54
	DUSP3	1.54	1.54	1.54	1.54
	CREB1	1.54	1.54	1.54	1.54
	MAP2K4	1.54	1.54	1.54	1.54
	REL1	1.54	1.54	1.54	1.54
Class 8	MAPK11	1.54	1.54	1.54	1.54
	MAPK8	1.54	1.54	1.54	1.54
	MD2C	1.54	1.54	1.54	1.54
	TAB3	1.54	1.54	1.54	1.54
	REL1B	1.54	1.54	1.54	1.54
	AGER	1.54	1.54	1.54	1.54
	MEF2A	1.54	1.54	1.54	1.54
	TRAF2	1.54	1.54	1.54	1.54
	PEL12	1.54	1.54	1.54	1.54
	RPS9KA5	1.54	1.54	1.54	1.54</