

Figure 1 displays the distribution of gene lists, showing the number of genes in the gene set (Y-axis) versus the Gene List Index (X-axis, ranging from 0 to 17,824).

The plot is divided into three main sections:

- Top Panel (Red Line):** Represents the number of genes in the gene set. It shows a sharp increase from index 0, peaking at index 3495 (labeled "Peak at 3495"), followed by a gradual decline. A vertical dashed green line marks the "Zero crossing at 9125".
- Middle Panel (Vertical Bars):** Represents the number of gene lists for each index. The bars are concentrated at low indices, with a prominent peak at index 3495.
- Bottom Panel (Green Area):** Represents the distribution of gene lists. The area is shaded green. The left side is labeled "clus4" and the right side is labeled "NON.clus4". The distribution is skewed towards lower indices, with a peak around index 3495.

Key annotations include:

- Peak at 3495
- Zero crossing at 9125
- clus4
- NON.clus4

Number of genes: 17824 (in list), 44 (in gene set)

Gene Set Null Density

Observed Gene Set ES value

Neg. ES "NON.clus4"

Pos. ES: "clus4"

ES

ES = 0.438 NES = 1.34 Nom. p-val= 0.129 FWER= 0.949 FDR= 1

clus4 **NON.clus4**

Class

AGPAT4

DGAT2

PPAP2C

DGKA

PNPLA3

MBOAT2

LIPF

ALDH2

DGKG

LPL

LIPC

DGKH

LIPG

ALDH1B1

DGKD

GPAT2

LCLAT1

ALDH9A1

CEL

AGPAT1

DGKE

ALDH3A2

DGKQ

GPAM

PPAP2A

ALDH7A1

DAK

AGPAT6

AKR1B1

AKR1A1

PPAR2B

AGK

AGPAT3

GLYCK

DGAT1

DGKB

GLA

MBOAT1

DGKZ

MGLL

GK

AGPAT2

AGPAT9

DGKI

TGCA.AL.5333.01

TGCA.AL.5343.01

TGCA.AL.5344.01

TGCA.AL.5345.01

TGCA.AL.5346.01

TGCA.AL.5347.01

TGCA.AL.5348.01

TGCA.AL.5349.01

TGCA.AL.5350.01

TGCA.AL.5351.01

TGCA.AL.5352.01

TGCA.AL.5353.01

TGCA.AL.5354.01

TGCA.AL.5355.01

TGCA.AL.5356.01

TGCA.AL.5357.01

TGCA.AL.5358.01

TGCA.AL.5359.01

TGCA.AL.5360.01

TGCA.AL.5361.01

TGCA.AL.5362.01

TGCA.AL.5363.01

TGCA.AL.5364.01

TGCA.AL.5365.01

TGCA.AL.5366.01

TGCA.AL.5367.01

TGCA.AL.5368.01

TGCA.AL.5369.01

TGCA.AL.5370.01

TGCA.AL.5371.01

TGCA.AL.5372.01

TGCA.AL.5373.01

TGCA.AL.5374.01

TGCA.AL.5375.01

TGCA.AL.5376.01

TGCA.AL.5377.01

TGCA.AL.5378.01

TGCA.AL.5379.01

TGCA.AL.5380.01

TGCA.AL.5381.01

TGCA.AL.5382.01

TGCA.AL.5383.01

TGCA.AL.5384.01

TGCA.AL.5385.01

TGCA.AL.5386.01

TGCA.AL.5387.01

TGCA.AL.5388.01

TGCA.AL.5389.01

TGCA.AL.5390.01

TGCA.AL.5391.01

TGCA.AL.5392.01

TGCA.AL.5393.01

TGCA.AL.5394.01

TGCA.AL.5395.01

TGCA.AL.5396.01

TGCA.AL.5397.01

TGCA.AL.5398.01

TGCA.AL.5399.01

TGCA.AL.5400.01

TGCA.AL.5401.01

TGCA.AL.5402.01

TGCA.AL.5403.01

TGCA.AL.5404.01

TGCA.AL.5405.01

TGCA.AL.5406.01

TGCA.AL.5407.01

TGCA.AL.5408.01

TGCA.AL.5409.01

TGCA.AL.5410.01

TGCA.AL.5411.01

TGCA.AL.5412.01

TGCA.AL.5413.01

TGCA.AL.5414.01

TGCA.AL.5415.01

TGCA.AL.5416.01

TGCA.AL.5417.01

TGCA.AL.5418.01

TGCA.AL.5419.01

TGCA.AL.5420.01

TGCA.AL.5421.01

TGCA.AL.5422.01

TGCA.AL.5423.01

TGCA.AL.5424.01

TGCA.AL.5425.01

TGCA.AL.5426.01

TGCA.AL.5427.01

TGCA.AL.5428.01

TGCA.AL.5429.01

TGCA.AL.5430.01

TGCA.AL.5431.01

TGCA.AL.5432.01

TGCA.AL.5433.01

TGCA.AL.5434.01

TGCA.AL.5435.01

TGCA.AL.5436.01

TGCA.AL.5437.01

TGCA.AL.5438.01

TGCA.AL.5439.01

TGCA.AL.5440.01

TGCA.AL.5441.01

TGCA.AL.5442.01

TGCA.AL.5443.01

TGCA.AL.5444.01

TGCA.AL.5445.01

TGCA.AL.5446.01

TGCA.AL.5447.01

TGCA.AL.5448.01

TGCA.AL.5449.01

TGCA.AL.5450.01

TGCA.AL.5451.01

TGCA.AL.5452.01

TGCA.AL.5453.01

TGCA.AL.5454.01

TGCA.AL.5455.01

TGCA.AL.5456.01

TGCA.AL.5457.01

TGCA.AL.5458.01

TGCA.AL.5459.01

TGCA.AL.5460.01

TGCA.AL.5461.01

TGCA.AL.5462.01

TGCA.AL.5463.01

TGCA.AL.5464.01

TGCA.AL.5465.01

TGCA.AL.5466.01

TGCA.AL.5467.01

TGCA.AL.5468.01

TGCA.AL.5469.01

TGCA.AL.5470.01

TGCA.AL.5471.01

TGCA.AL.5472.01

TGCA.AL.5473.01

TGCA.AL.5474.01

TGCA.AL.5475.01

TGCA.AL.5476.01

TGCA.AL.5477.01

TGCA.AL.5478.01

TGCA.AL.5479.01

TGCA.AL.5480.01

TGCA.AL.5481.01

TGCA.AL.5482.01

TGCA.AL.5483.01

TGCA.AL.5484.01

TGCA.AL.5485.01

TGCA.AL.5486.01

TGCA.AL.5487.01

TGCA.AL.5488.01

TGCA.AL.5489.01

TGCA.AL.5490.01

TGCA.AL.5491.01

TGCA.AL.5492.01

TGCA.AL.5493.01

TGCA.AL.5494.01

TGCA.AL.5495.01

TGCA.AL.5496.01

TGCA.AL.5497.01

TGCA.AL.5498.01

TGCA.AL.5499.01

TGCA.AL.5500.01

TGCA.AL.5501.01

TGCA.AL.5502.01

TGCA.AL.5503.01

TGCA.AL.5504.01

TGCA.AL.5505.01

TGCA.AL.5506.01

TGCA.AL.5507.01

TGCA.AL.5508.01

TGCA.AL.5509.01

TGCA.AL.5510.01

TGCA.AL.5511.01

TGCA.AL.5512.01

TGCA.AL.5513.01

TGCA.AL.5514.01

TGCA.AL.5515.01

TGCA.AL.5516.01

TGCA.AL.5517.01

TGCA.AL.5518.01

TGCA.AL.5519.01

TGCA.AL.5520.01

TGCA.AL.5521.01

TGCA.AL.5522.01

TGCA.AL.5523.01

TGCA.AL.5524.01

TGCA.AL.5525.01

TGCA.AL.5526.01

TGCA.AL.5527.01

TGCA.AL.5528.01

TGCA.AL.5529.01

TGCA.AL.5530.01

TGCA.AL.5531.01

TGCA.AL.5532.01

TGCA.AL.5533.01

TGCA.AL.5534.01

TGCA.AL.5535.01

TGCA.AL.5536.01

TGCA.AL.5537.01

TGCA.AL.5538.01

TGCA.AL.5539.01

TGCA.AL.5540.01

TGCA.AL.5541.01

TGCA.AL.5542.01

TGCA.AL.5543.01

TGCA.AL.5544.01

TGCA.AL.5545.01

TGCA.AL.5546.01

TGCA.AL.5547.01

TGCA.AL.5548.01

TGCA.AL.5549.01

TGCA.AL.5550.01

TGCA.AL.5551.01

TGCA.AL.5552.01

TGCA.AL.5553.01