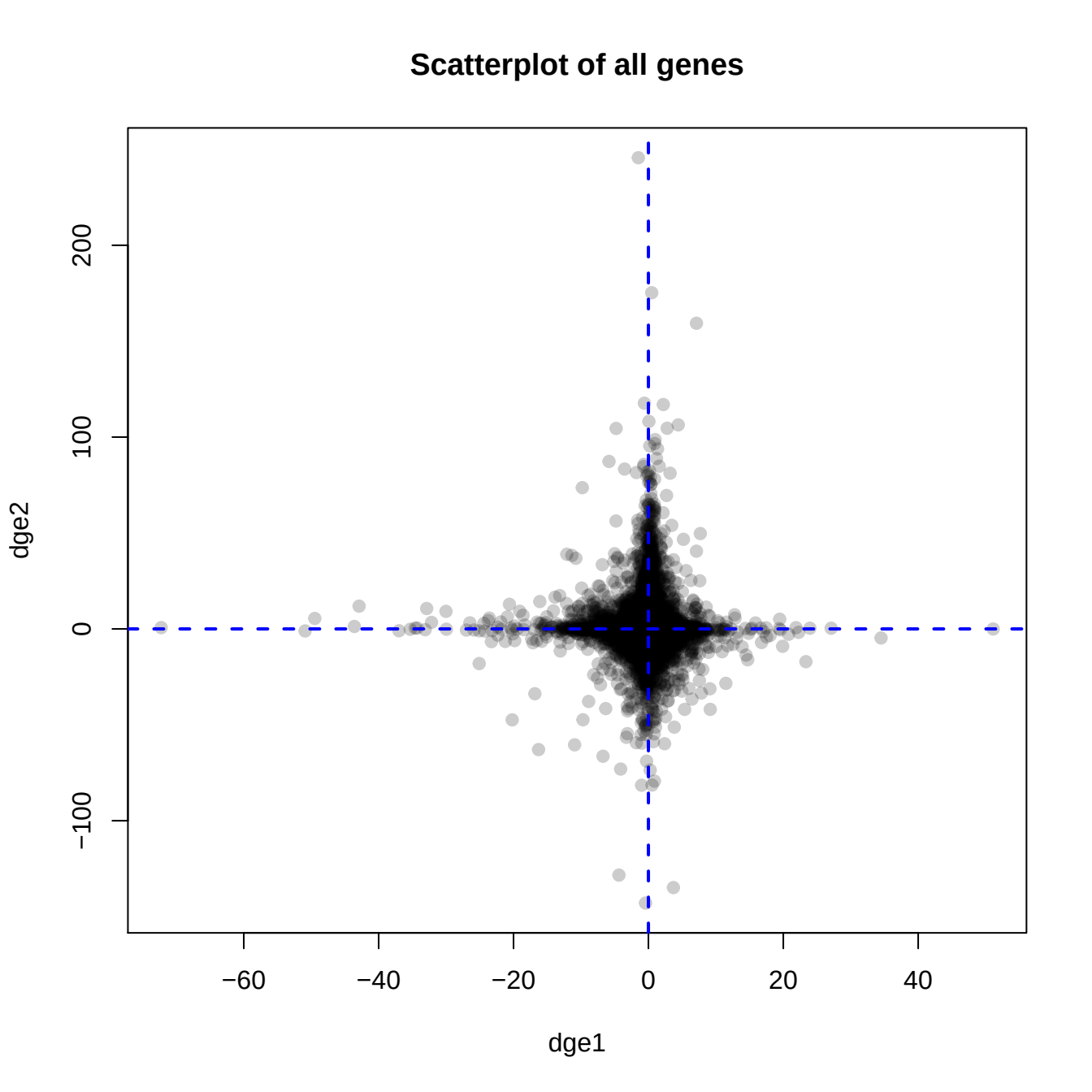
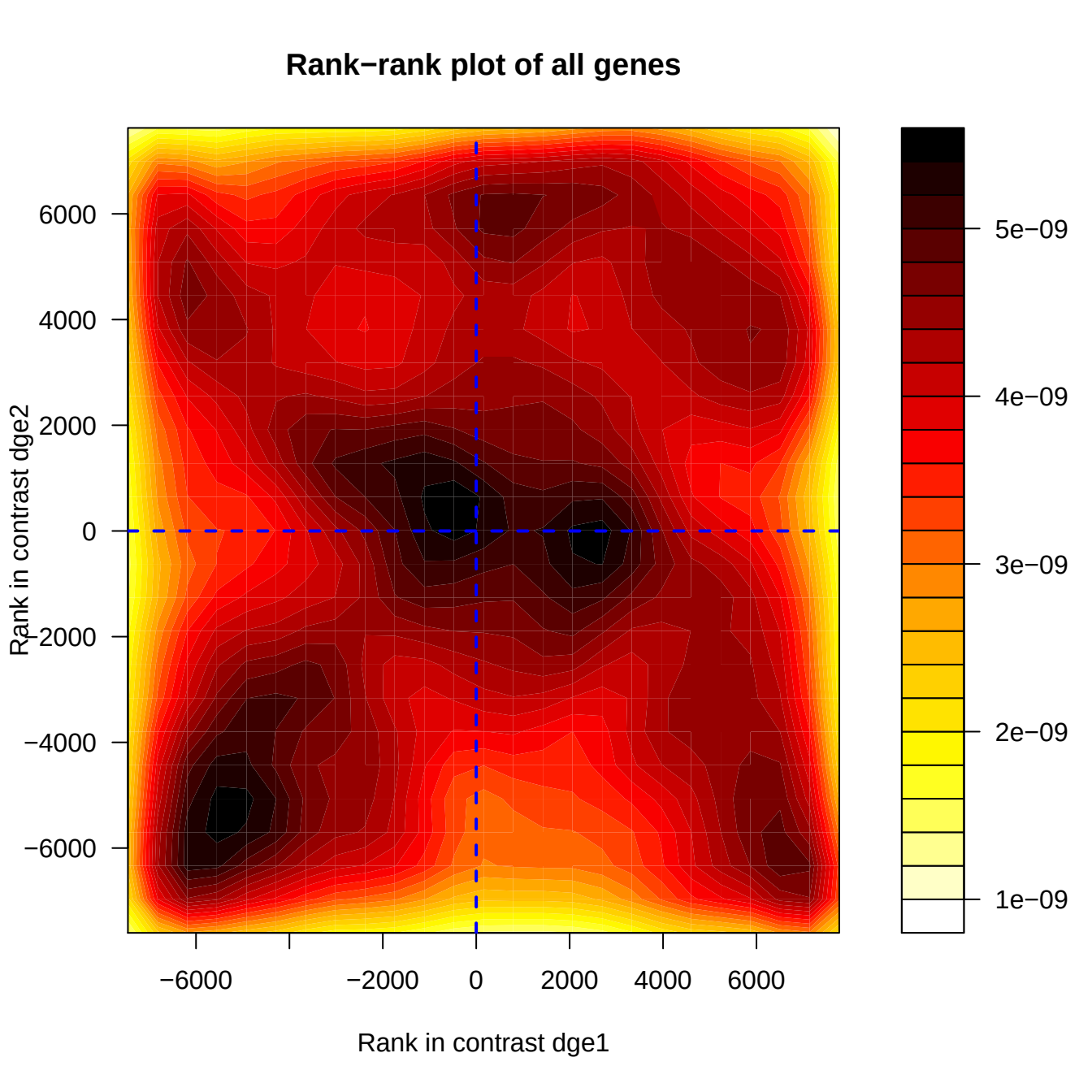
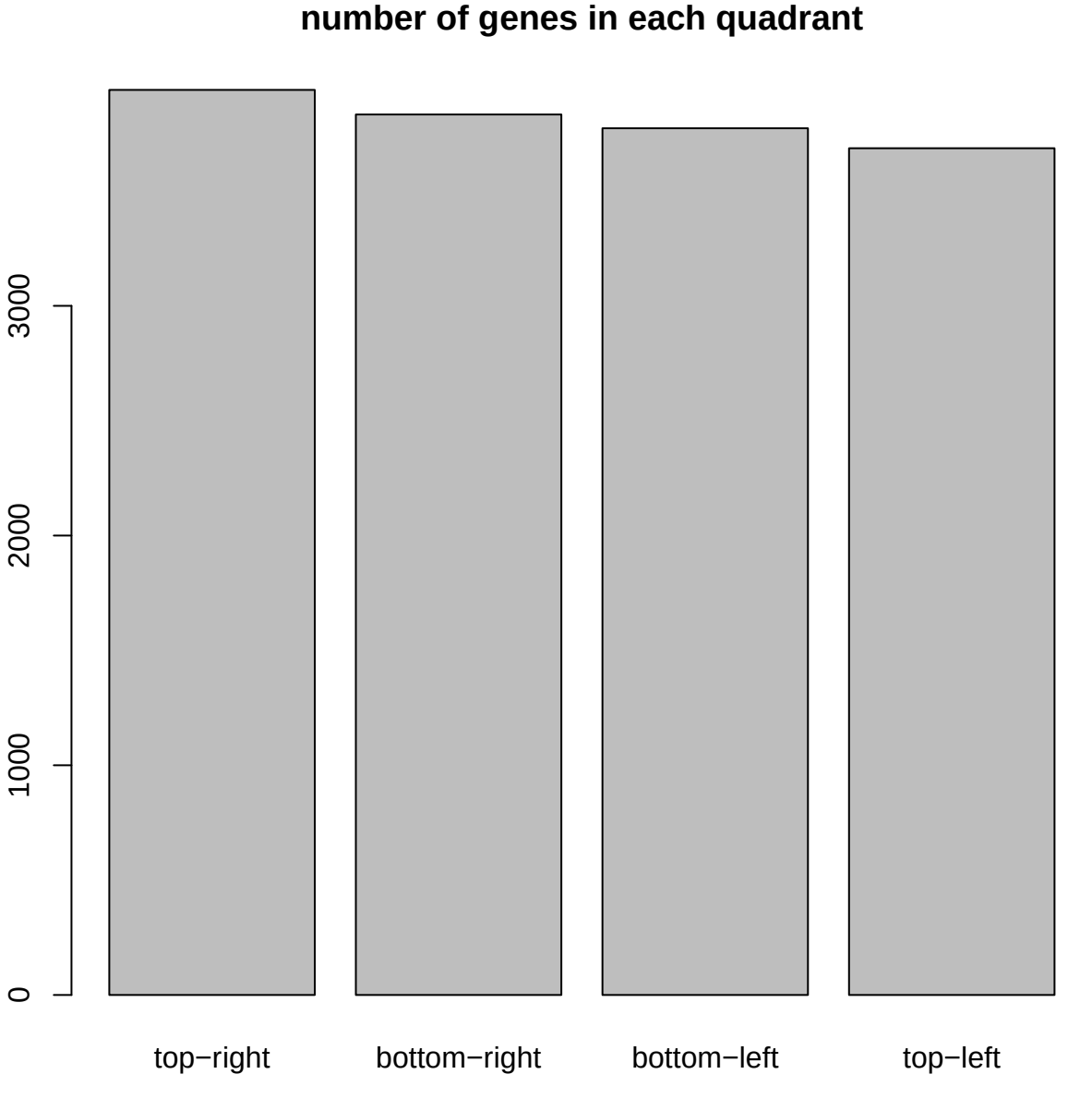
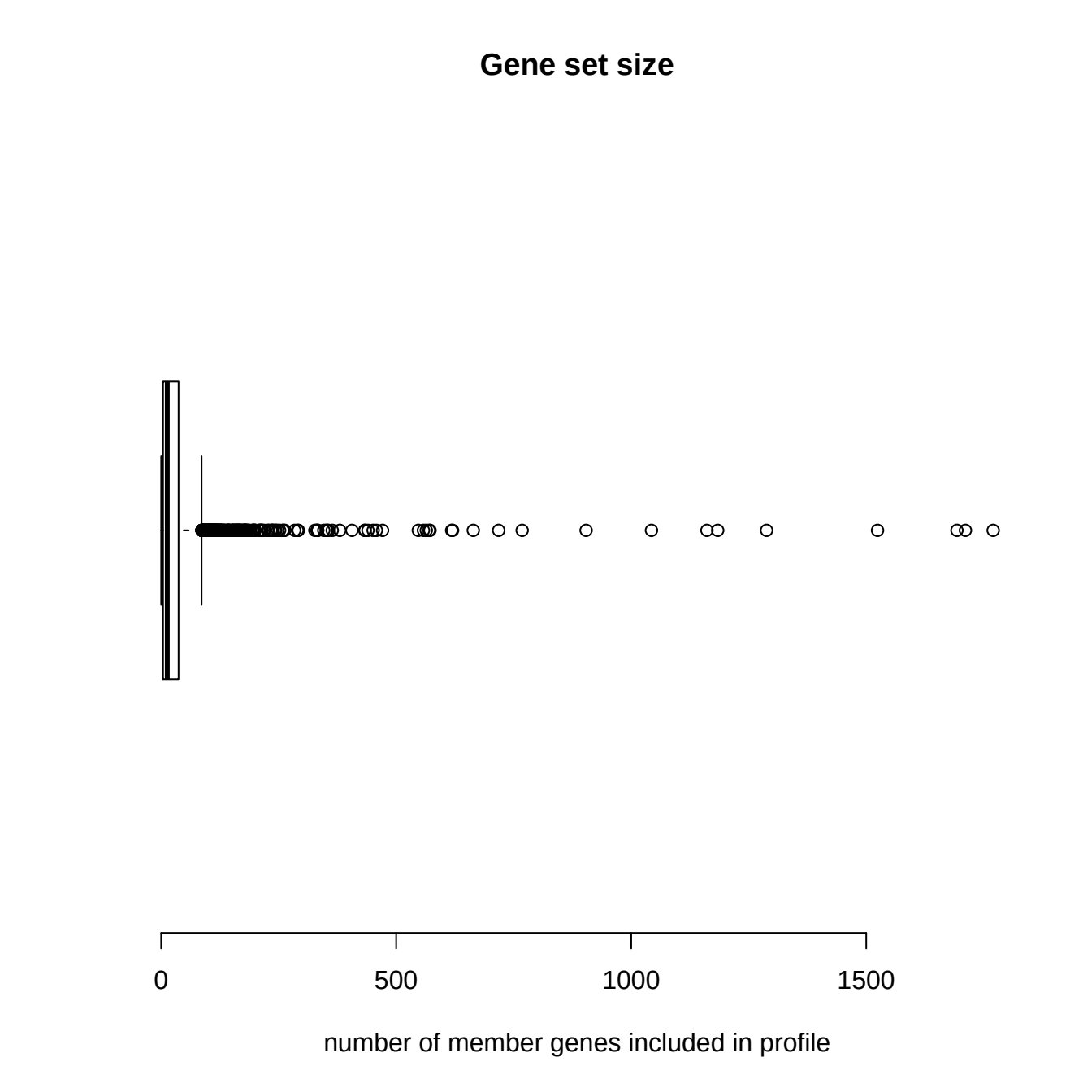
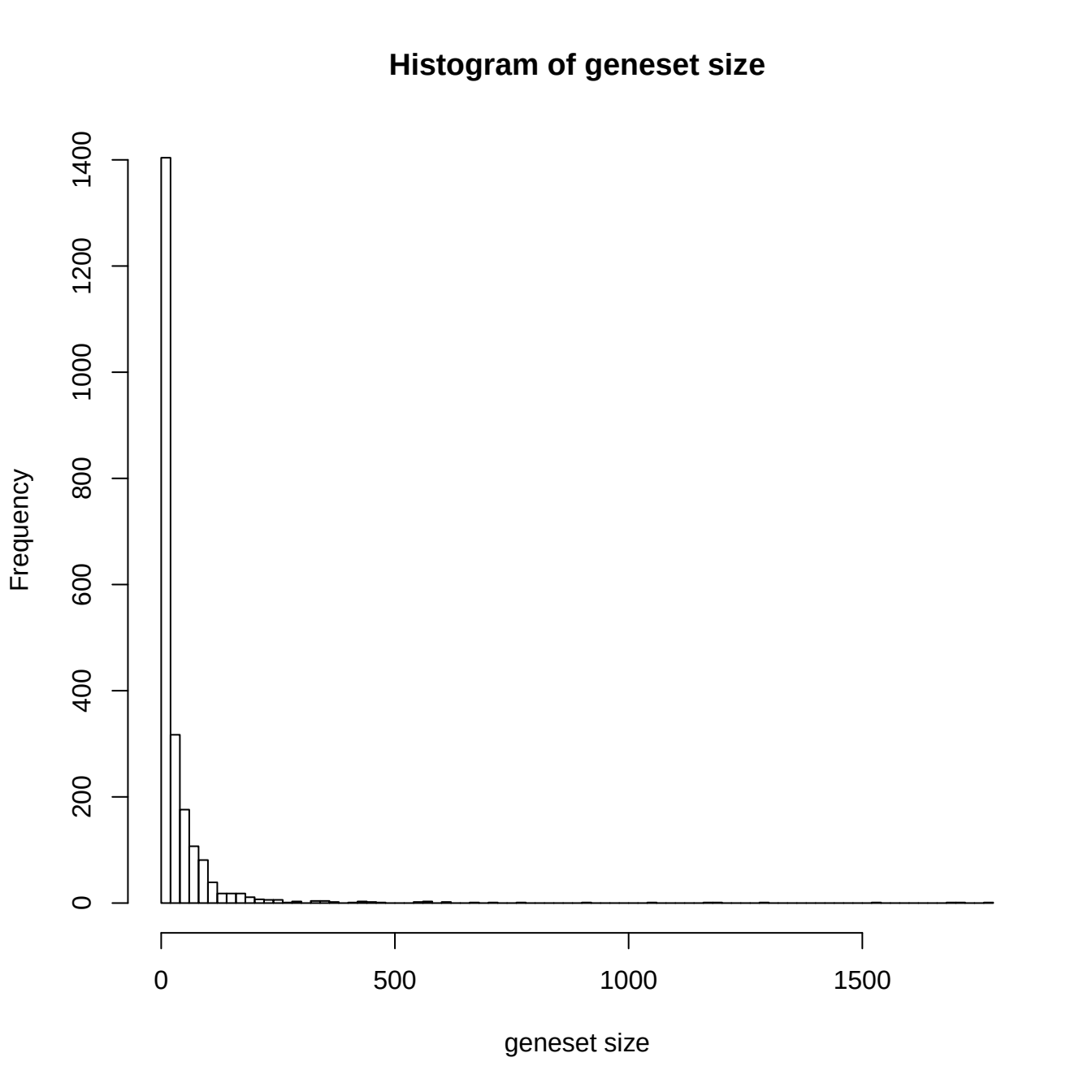
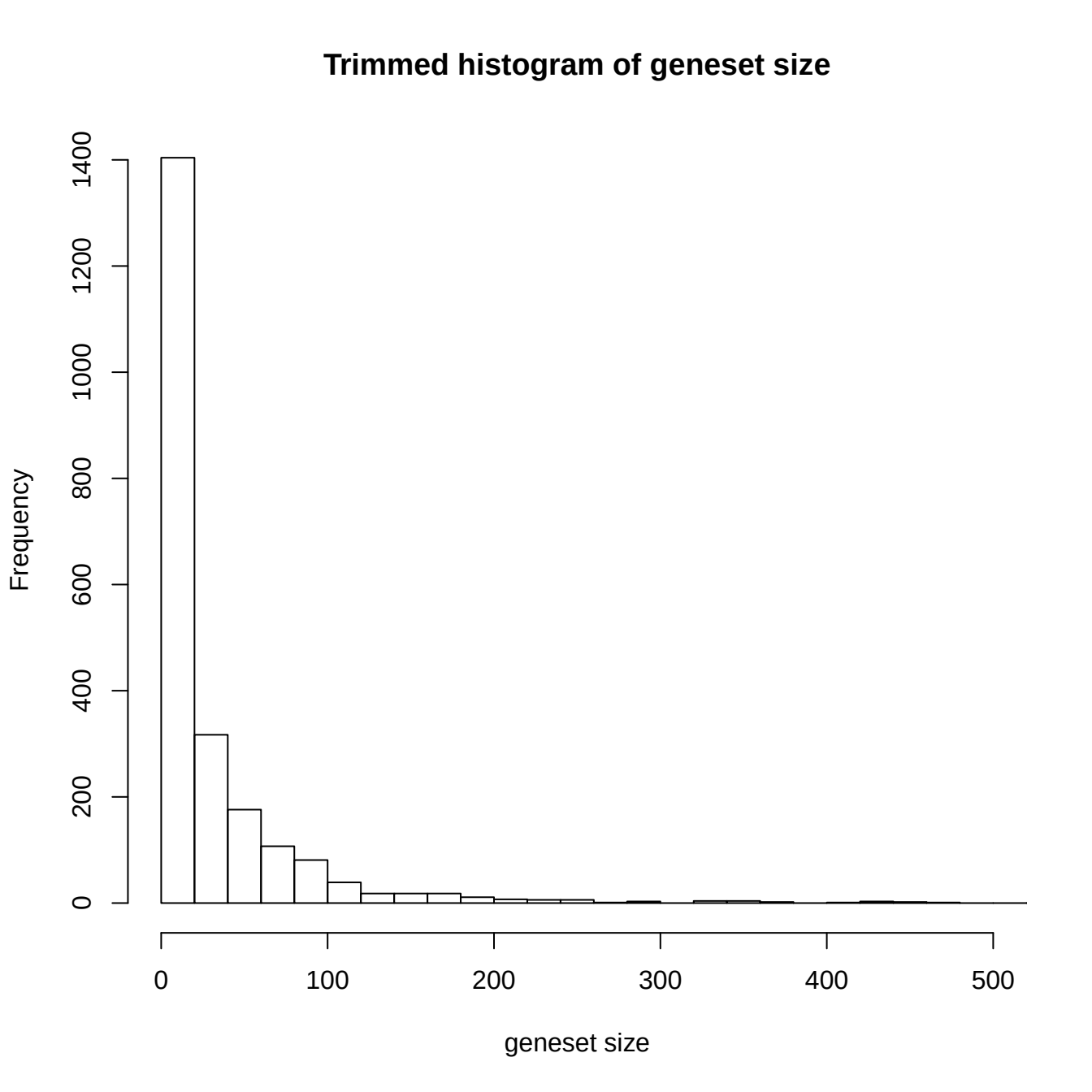

Scatterplot of all genes
dge2
200
100
0
−100
−60
−40
−20
0
20
40
dge1

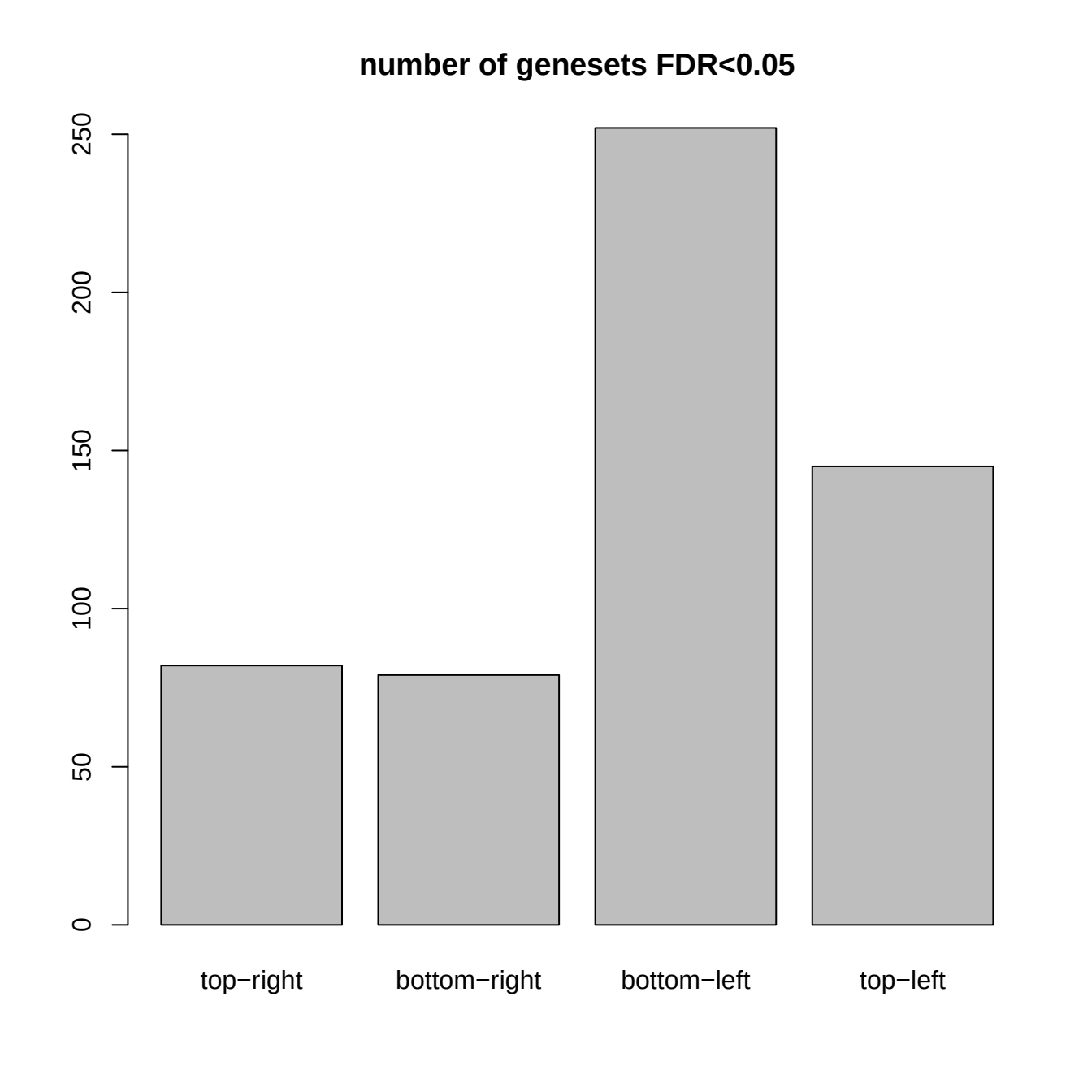

Rank−rank plot of all genes
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
5e−09
4e−09
3e−09
2e−09
1e−09

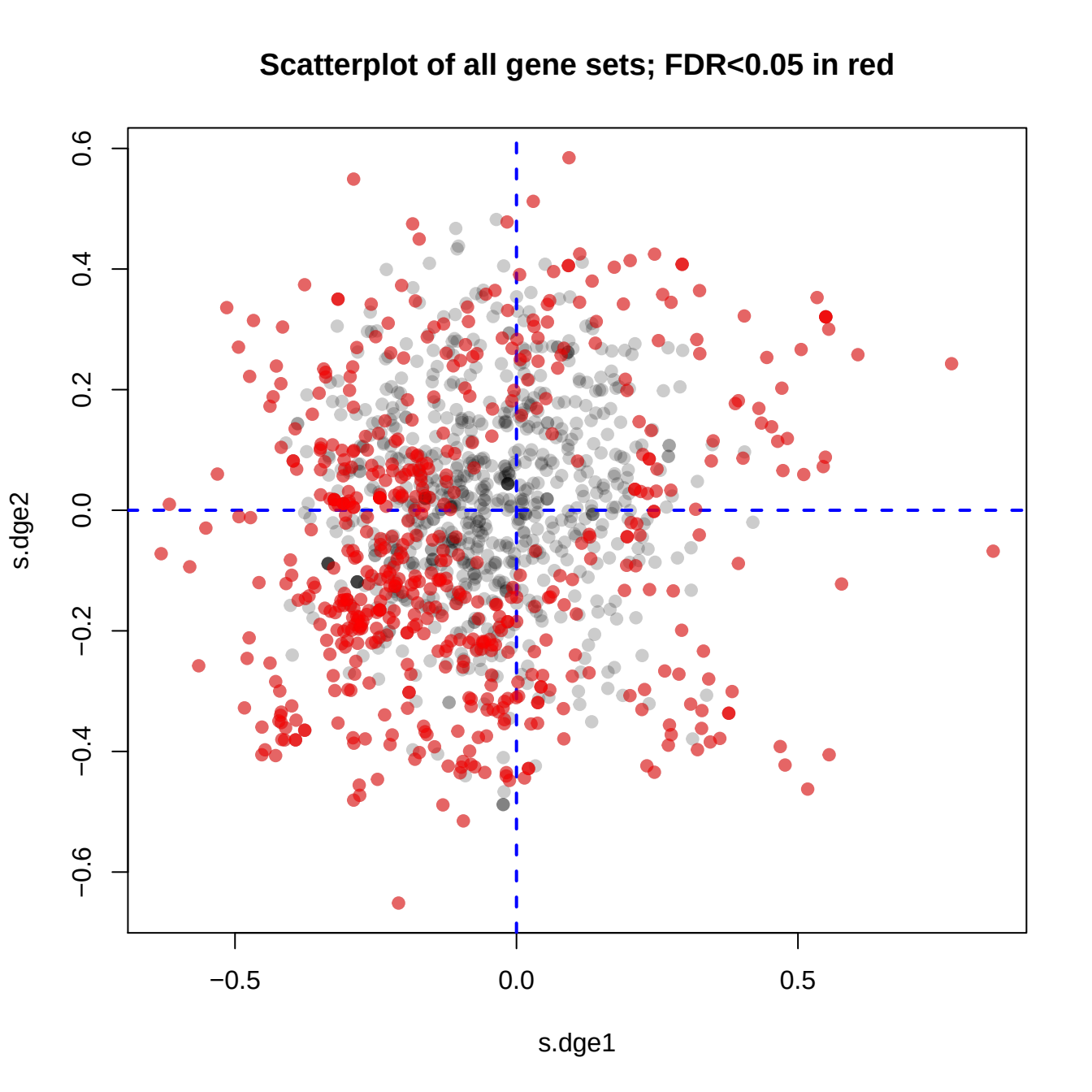

number of genes in each quadrant
0
1000
2000
3000
top−right
bottom−right
bottom−left
top−left

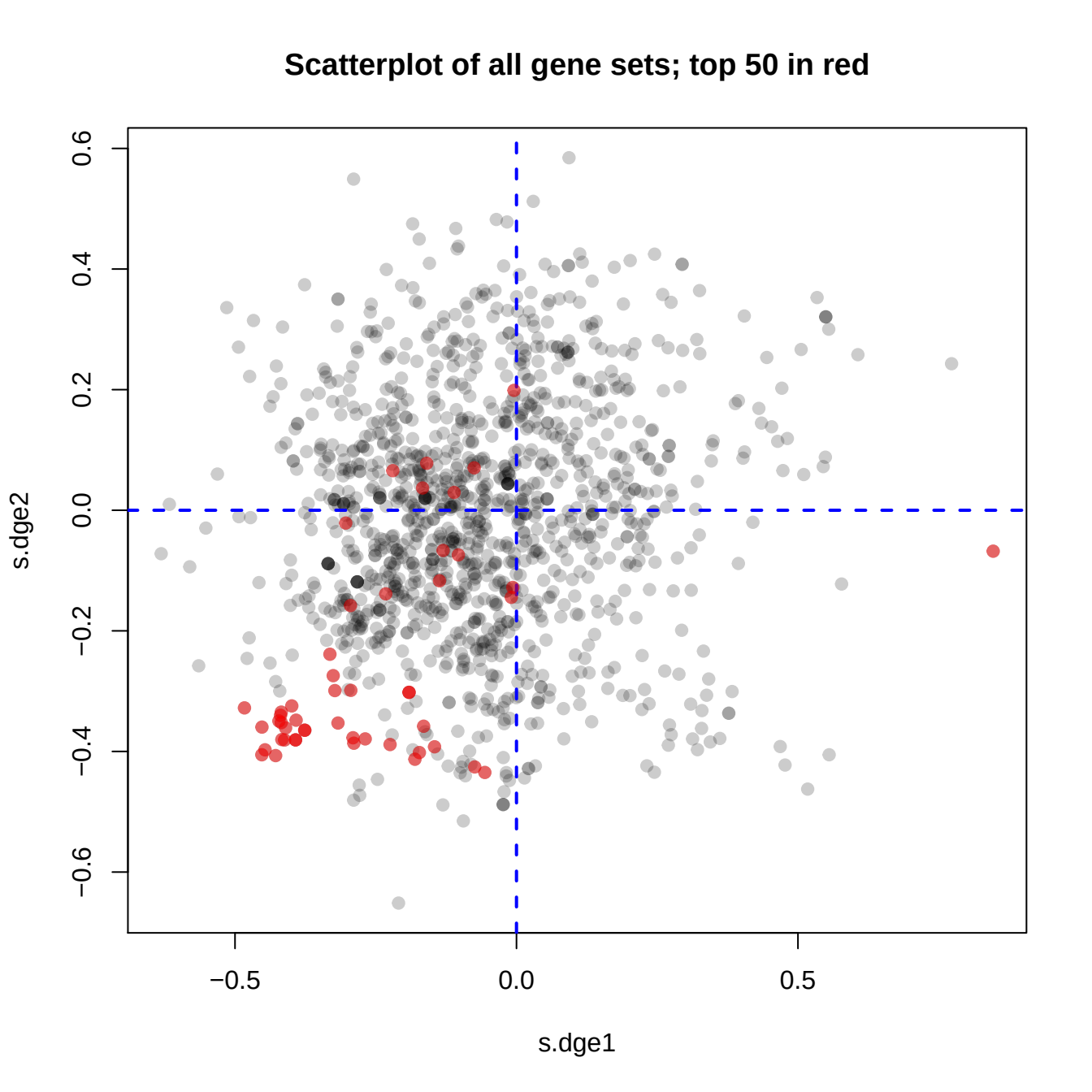

Gene set size
0
500
1000
1500
number of member genes included in profile

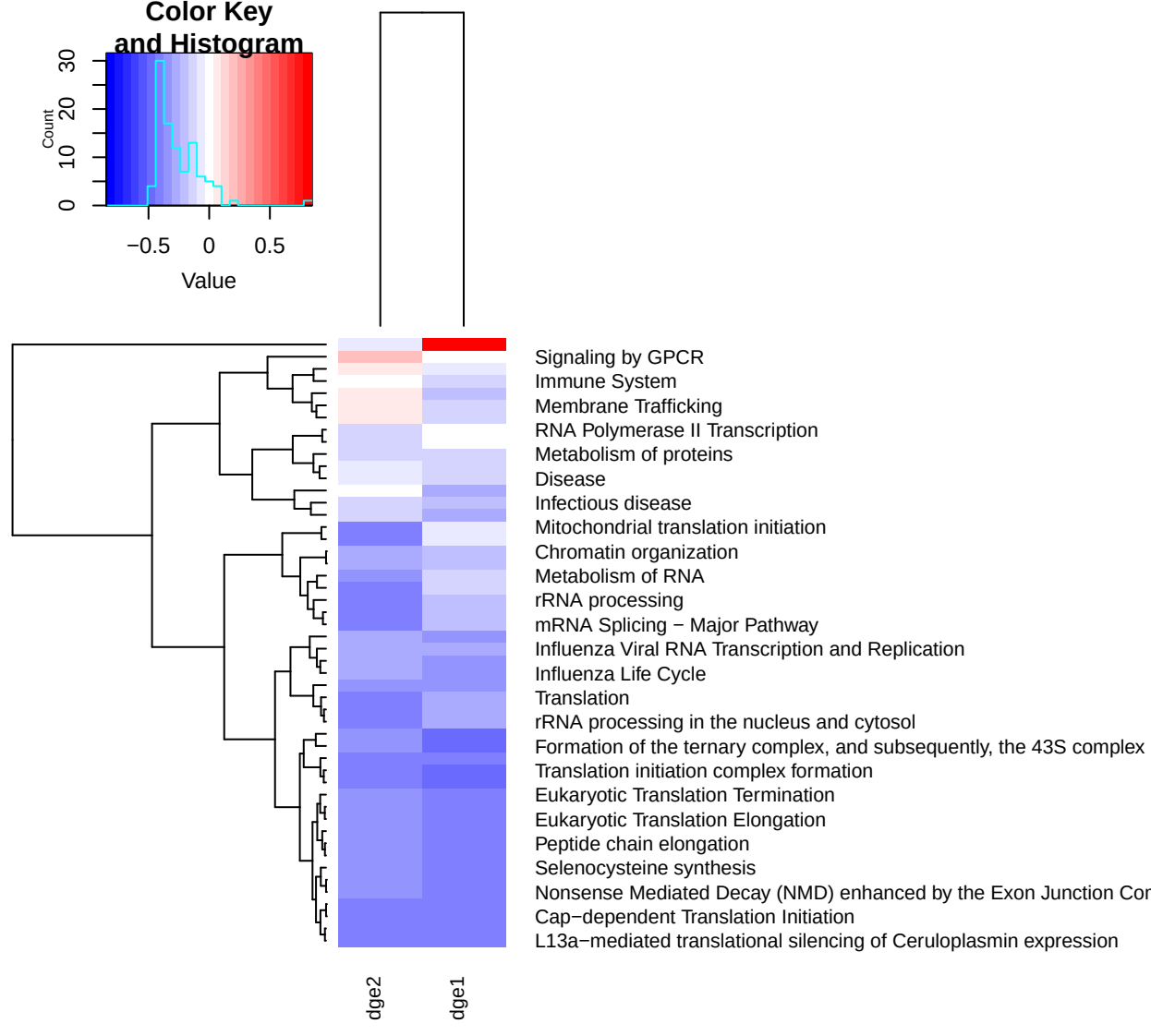

Histogram of geneset size
Frequency
0
200
400
600
800
1000
1200
1400
0
500
1000
1500
geneset size

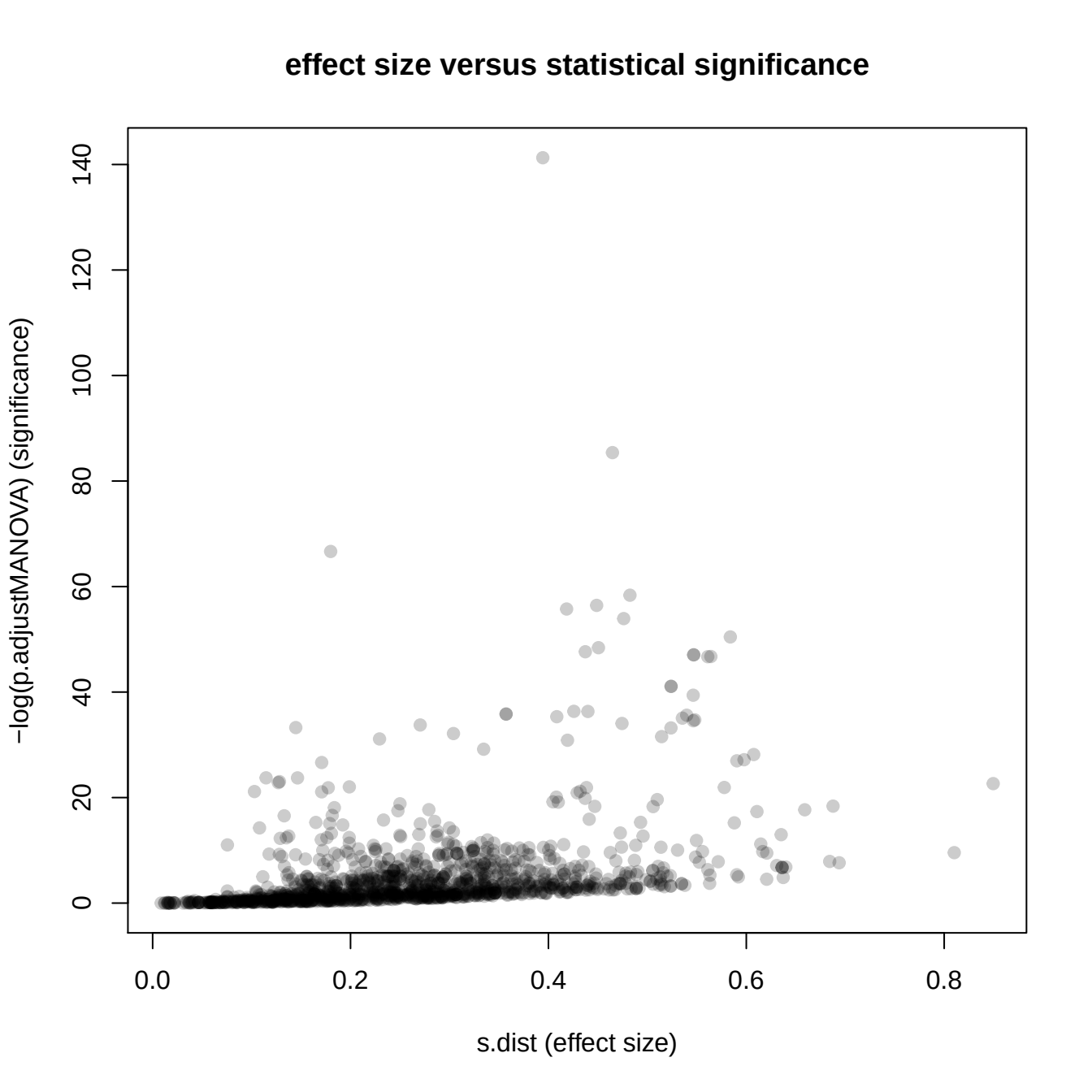

Trimmed histogram of geneset size
Frequency
0
200
400
600
800
1000
1200
1400
0
100
200
300
400
500
geneset size

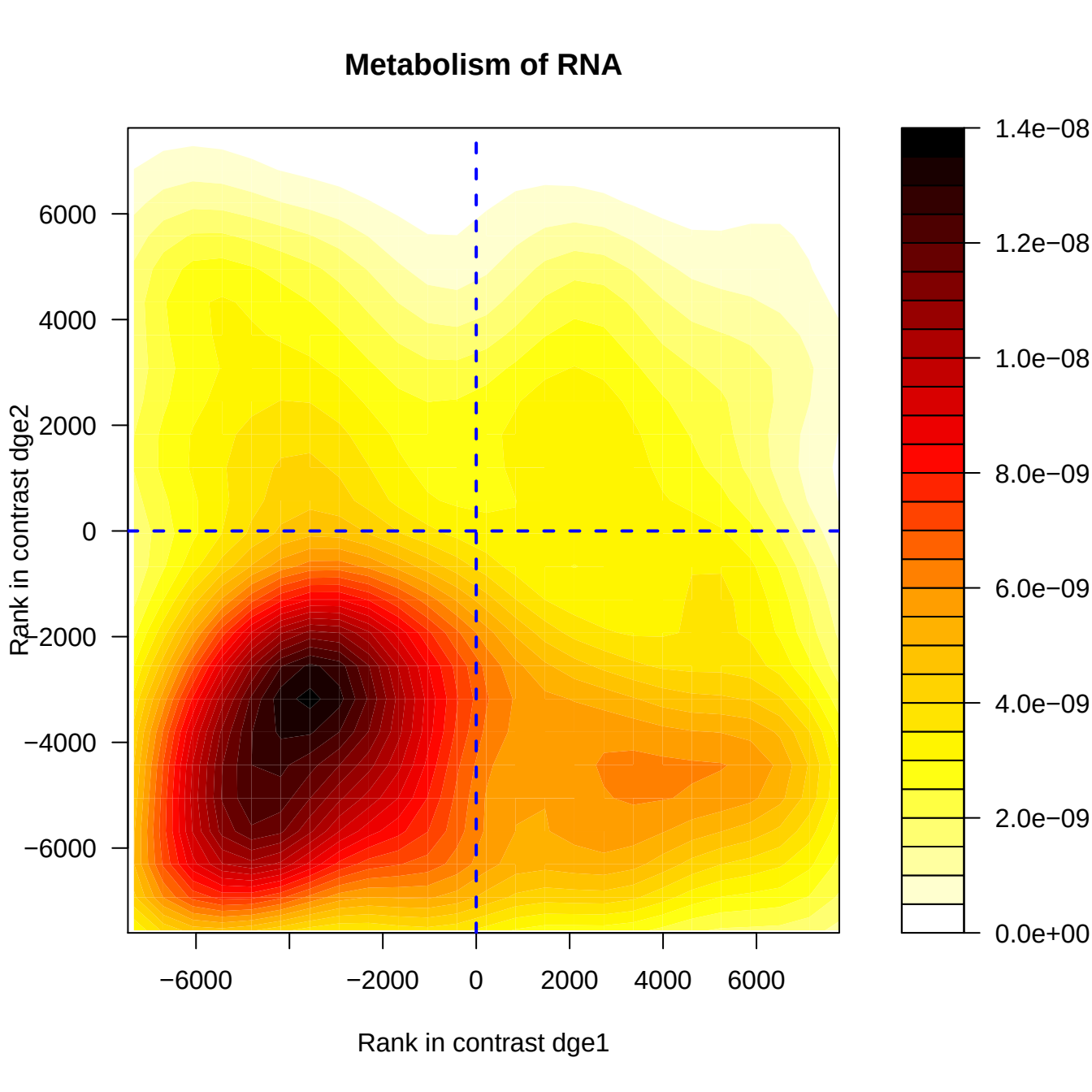

number of genesets FDR<0.05
0
50
100
150
200
250
top−right
bottom−right
bottom−left
top−left

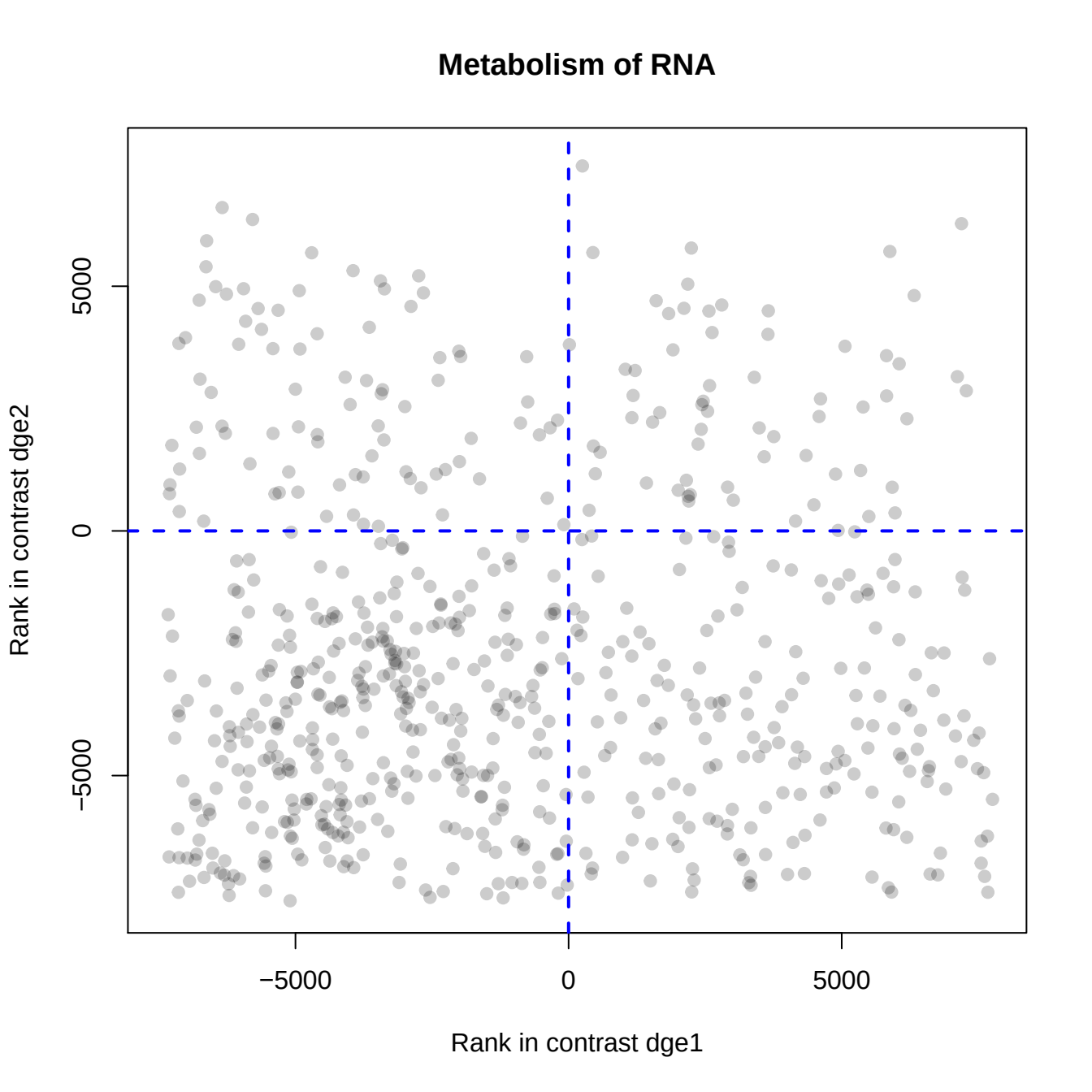

Scatterplot of all gene sets; FDR<0.05 in red
s.dge2
s.dge1
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.5
0.0
0.5

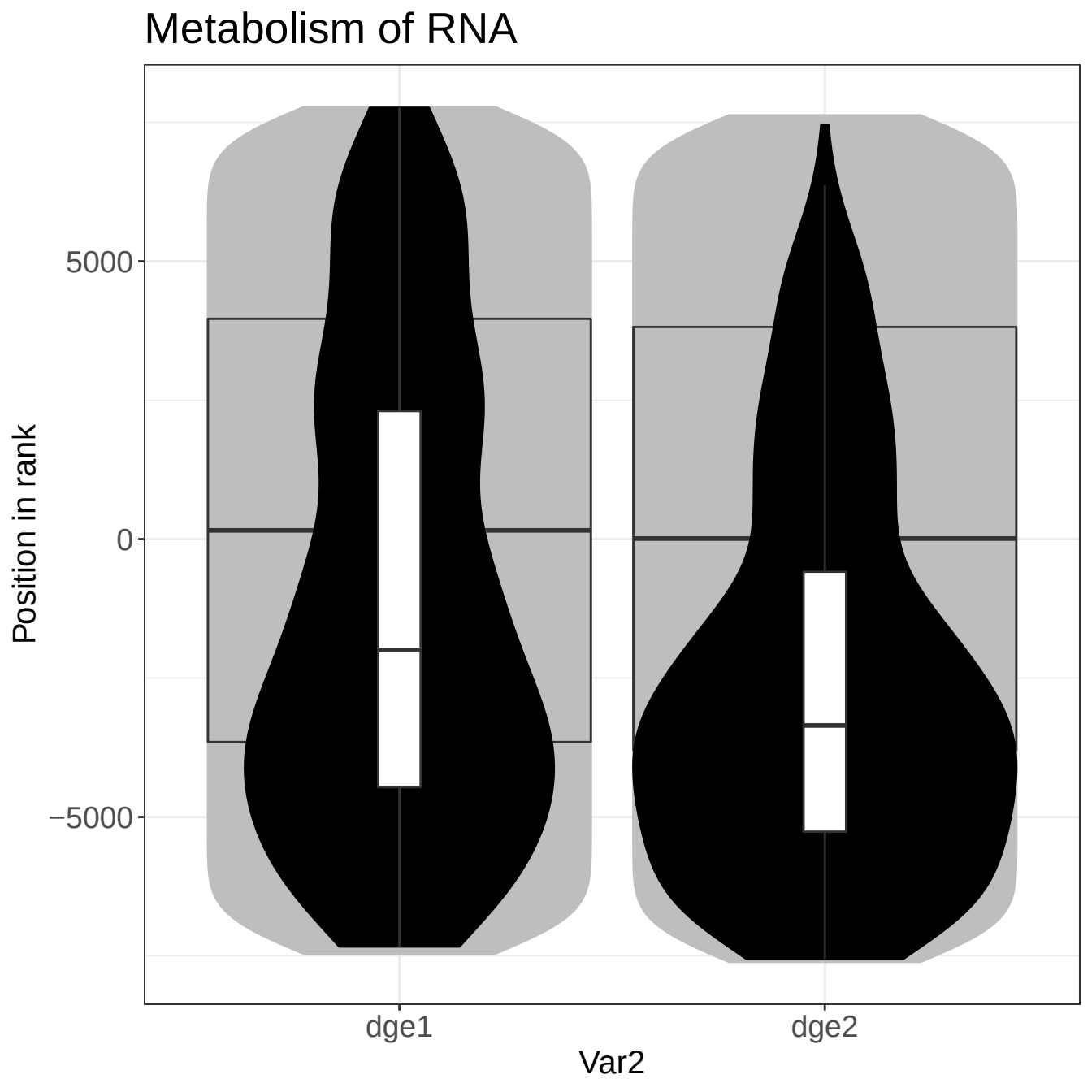

Scatterplot of all gene sets; top 50 in red
s.dge2
s.dge1
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.5
0.0
0.5

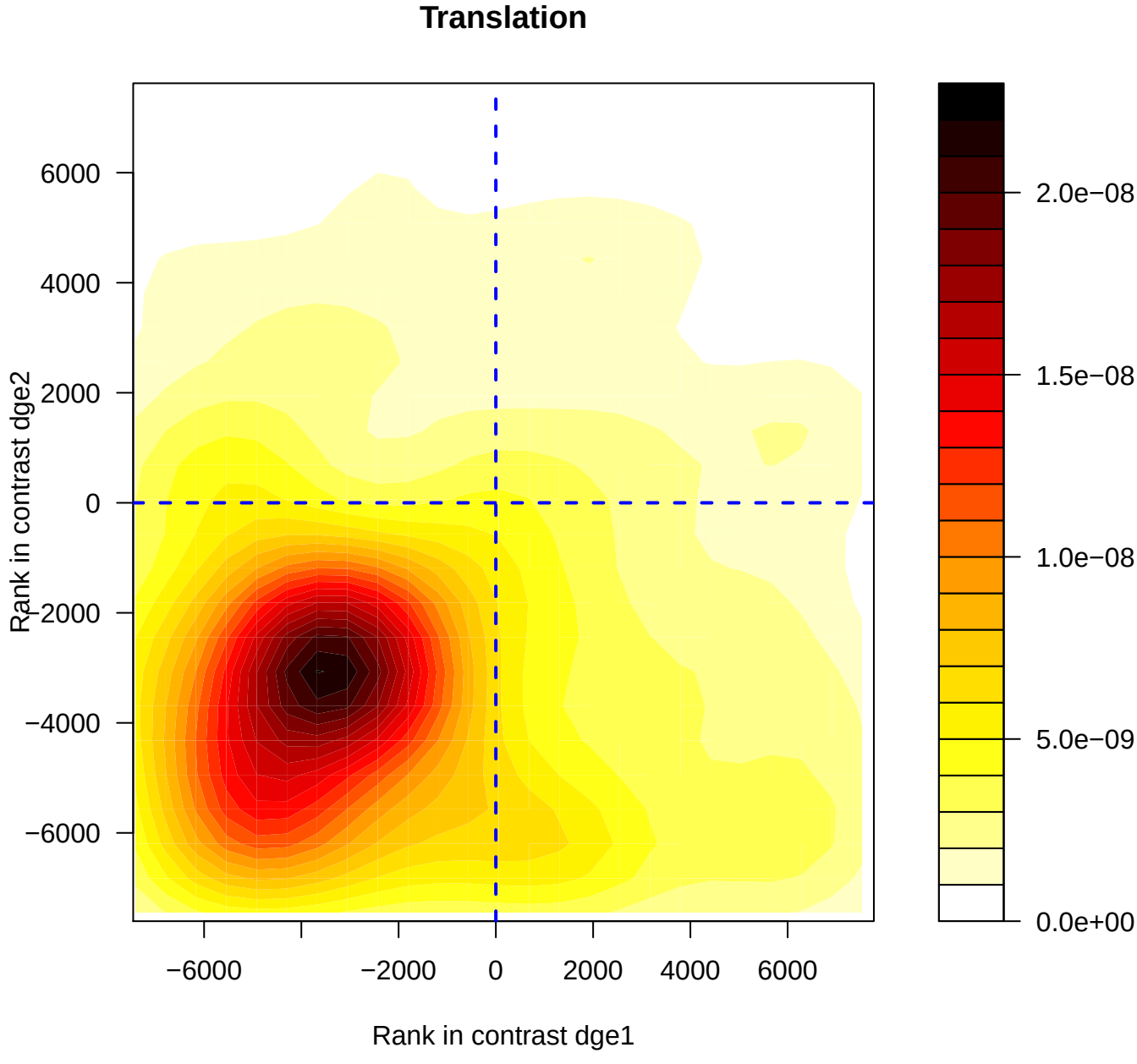

Color Key
and Histogram
Count
0
10
20
30
−0.5
0
0.5
Value
Signaling by GPCR
Immune System
Membrane Trafficking
RNA Polymerase II Transcription
Metabolism of proteins
Disease
Infectious disease
Mitochondrial translation initiation
Chromatin organization
Metabolism of RNA
rRNA processing
mRNA Splicing − Major Pathway
Influenza Viral RNA Transcription and Replication
Influenza Life Cycle
Translation
rRNA processing in the nucleus and cytosol
Formation of the ternary complex, and subsequently, the 43S complex
Translation initiation complex formation
Eukaryotic Translation Termination
Eukaryotic Translation Elongation
Peptide chain elongation
Selenocysteine synthesis
Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC
Cap−dependent Translation Initiation
L13a−mediated translational silencing of Ceruloplasmin expression
dge2
dge1

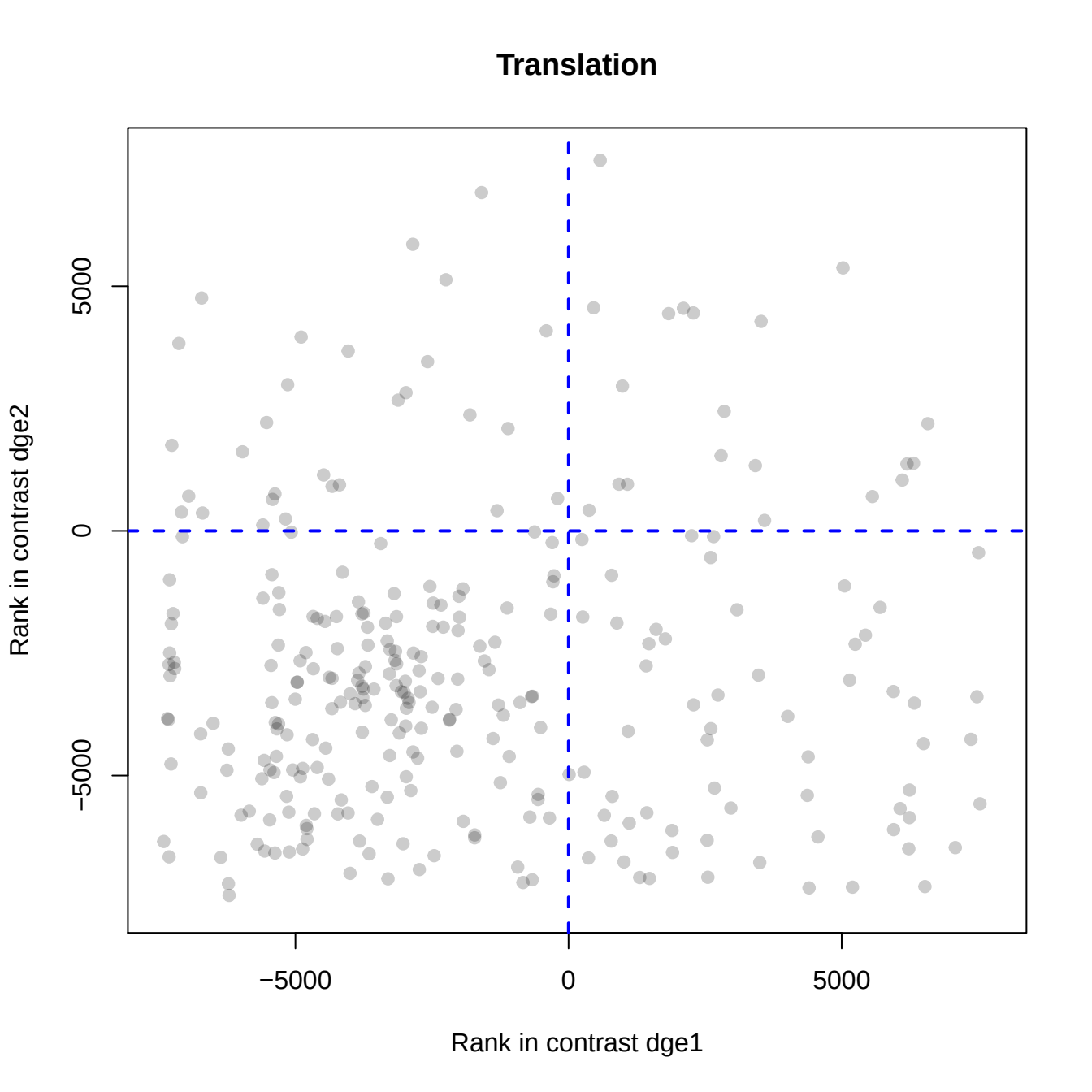

effect size versus statistical significance
−log(p.adjustMANOVA) (significance)
0
20
40
60
80
100
120
140
0.0
0.2
0.4
0.6
0.8
s.dist (effect size)

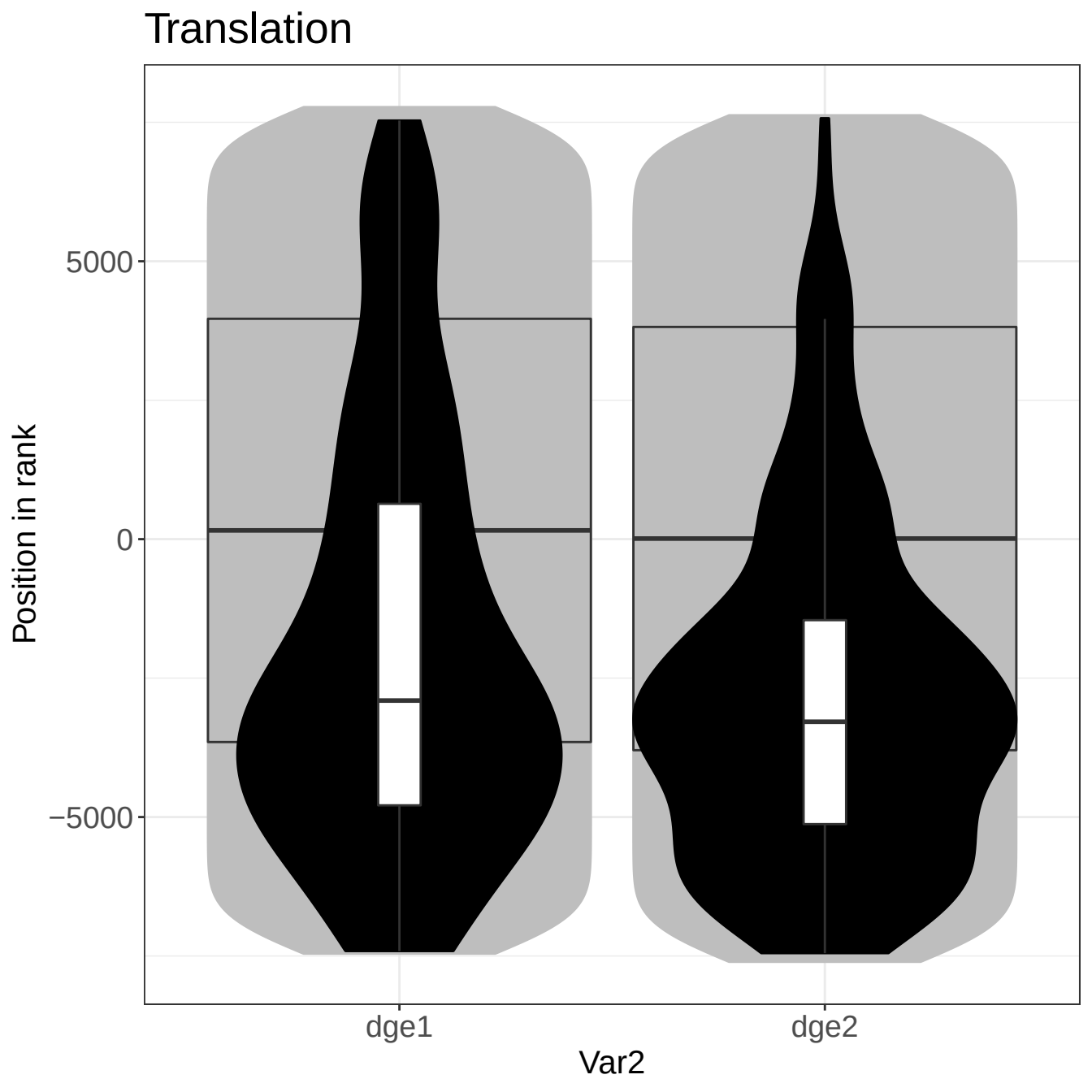

Metabolism of RNA
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
1.4e−08
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09
0.0e+00

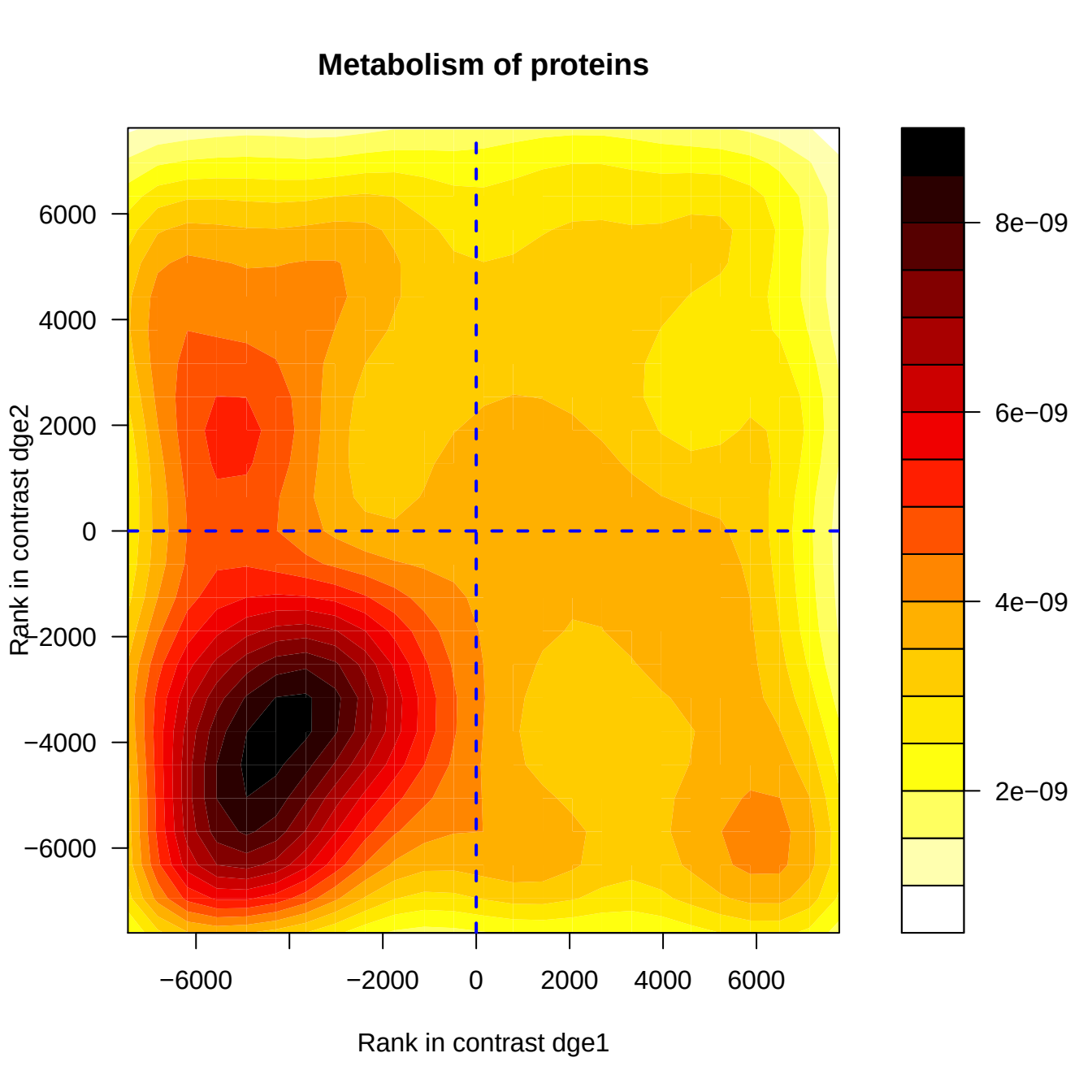

Metabolism of RNA
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

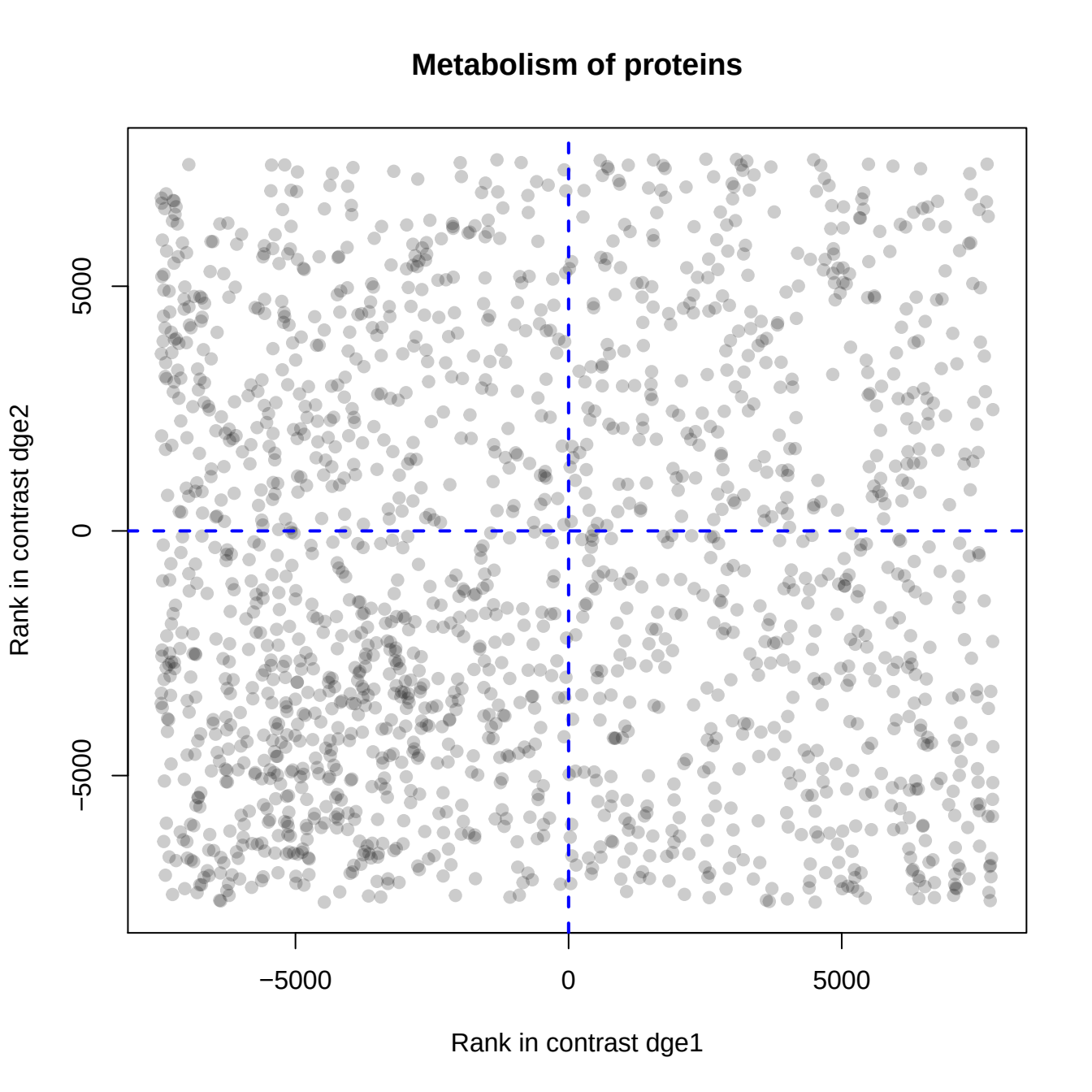

Metabolism of RNA
5000
0
−5000
Position in rank
dge1
dge2
Var2

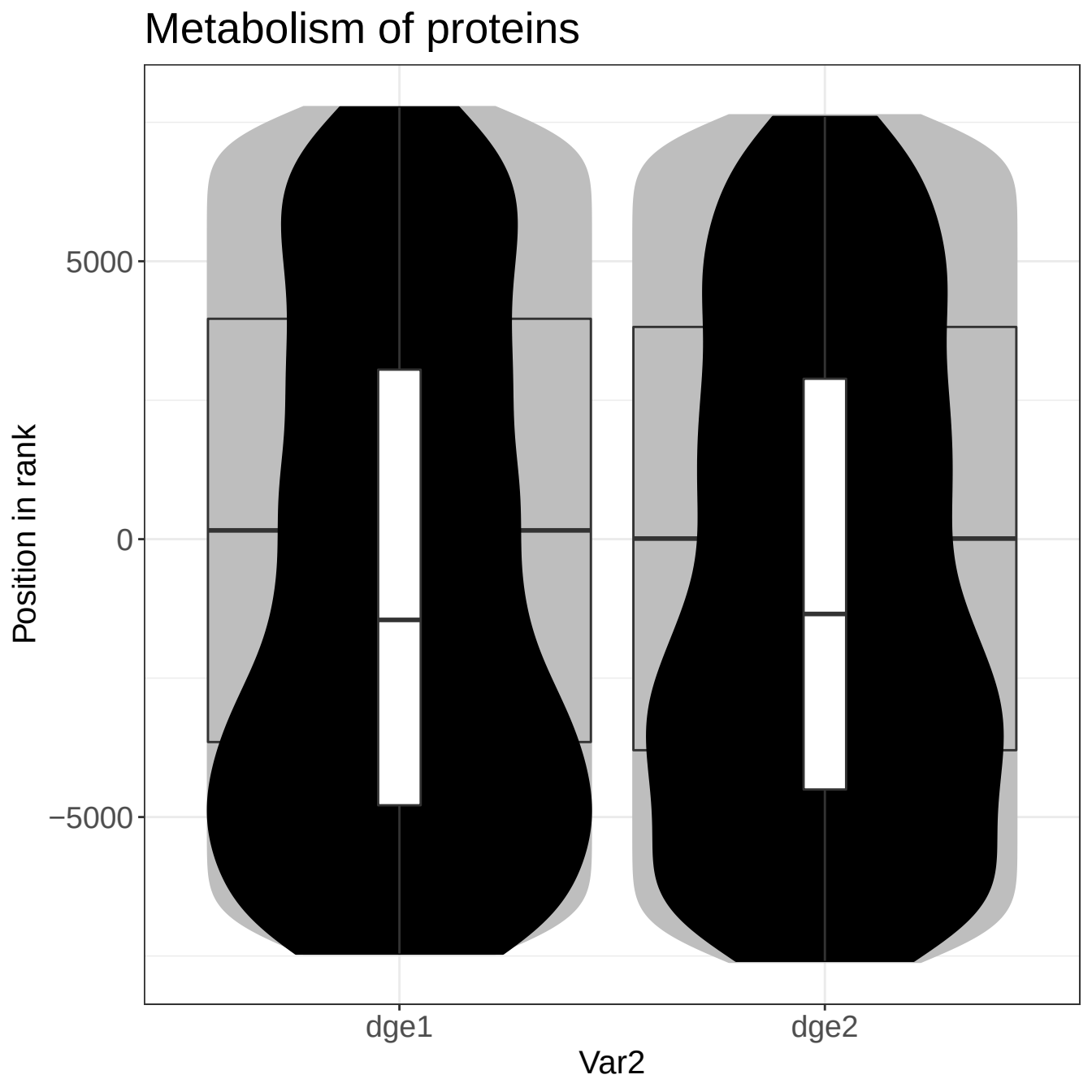

Translation
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

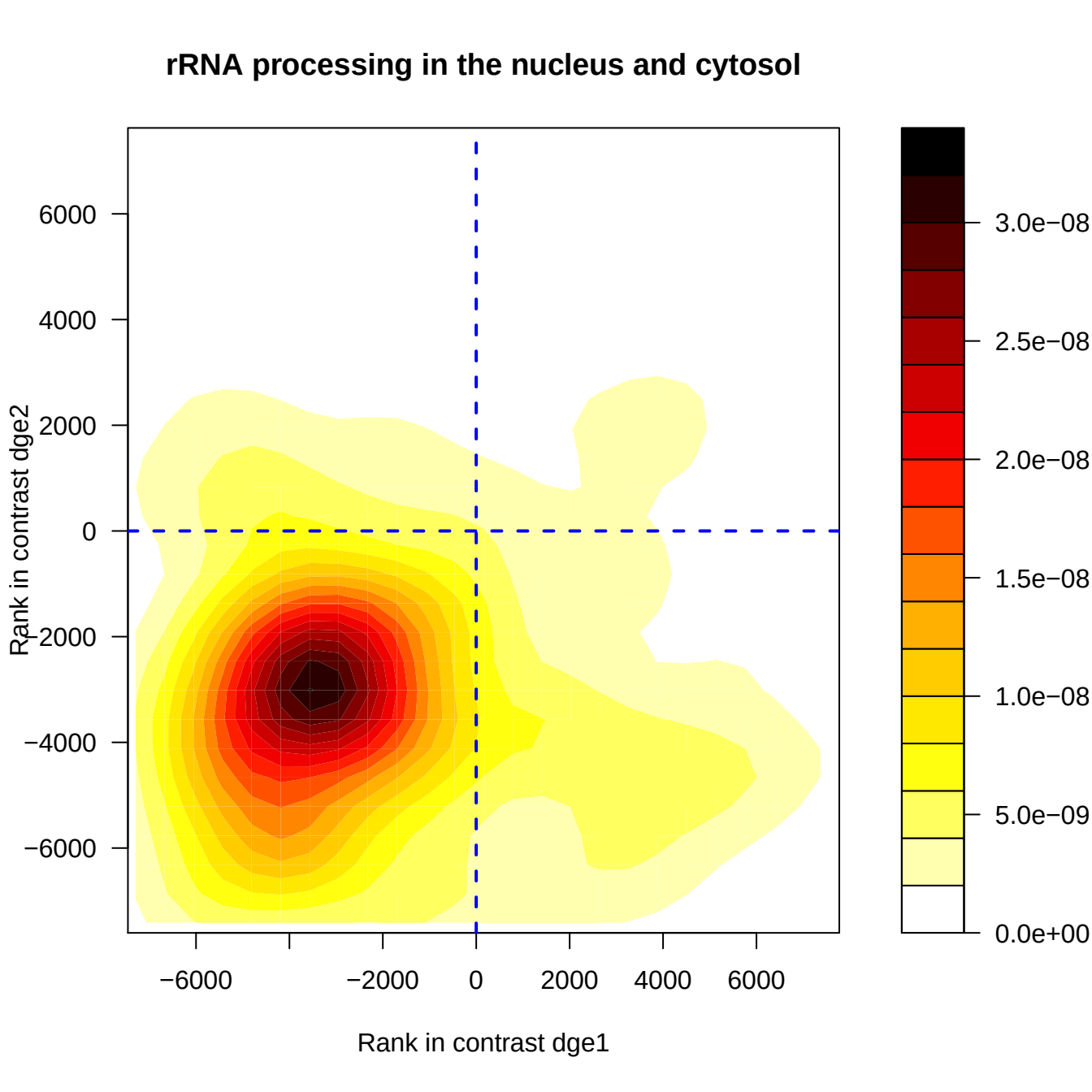

Translation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

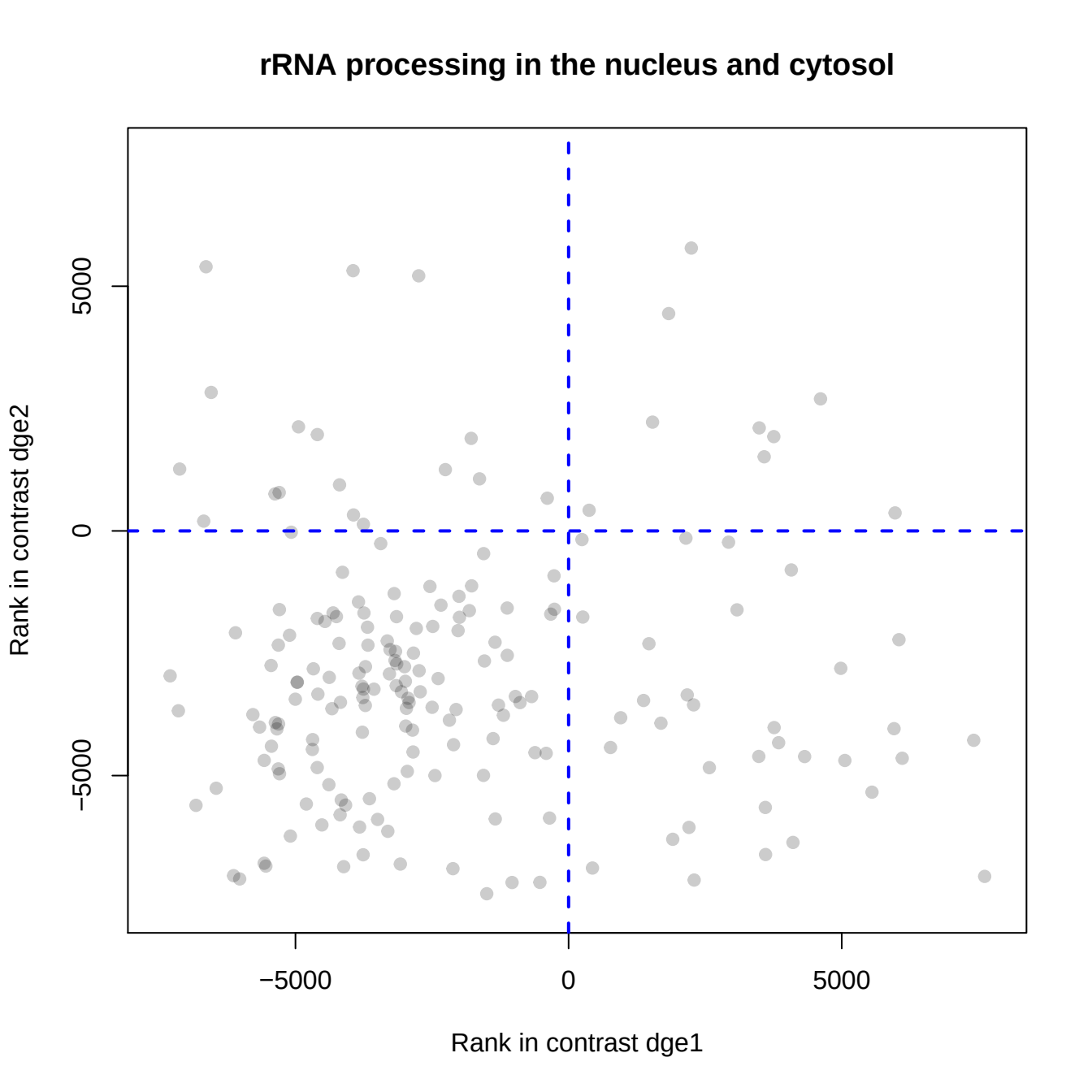

Translation
5000
0
−5000
Position in rank
dge1
dge2
Var2

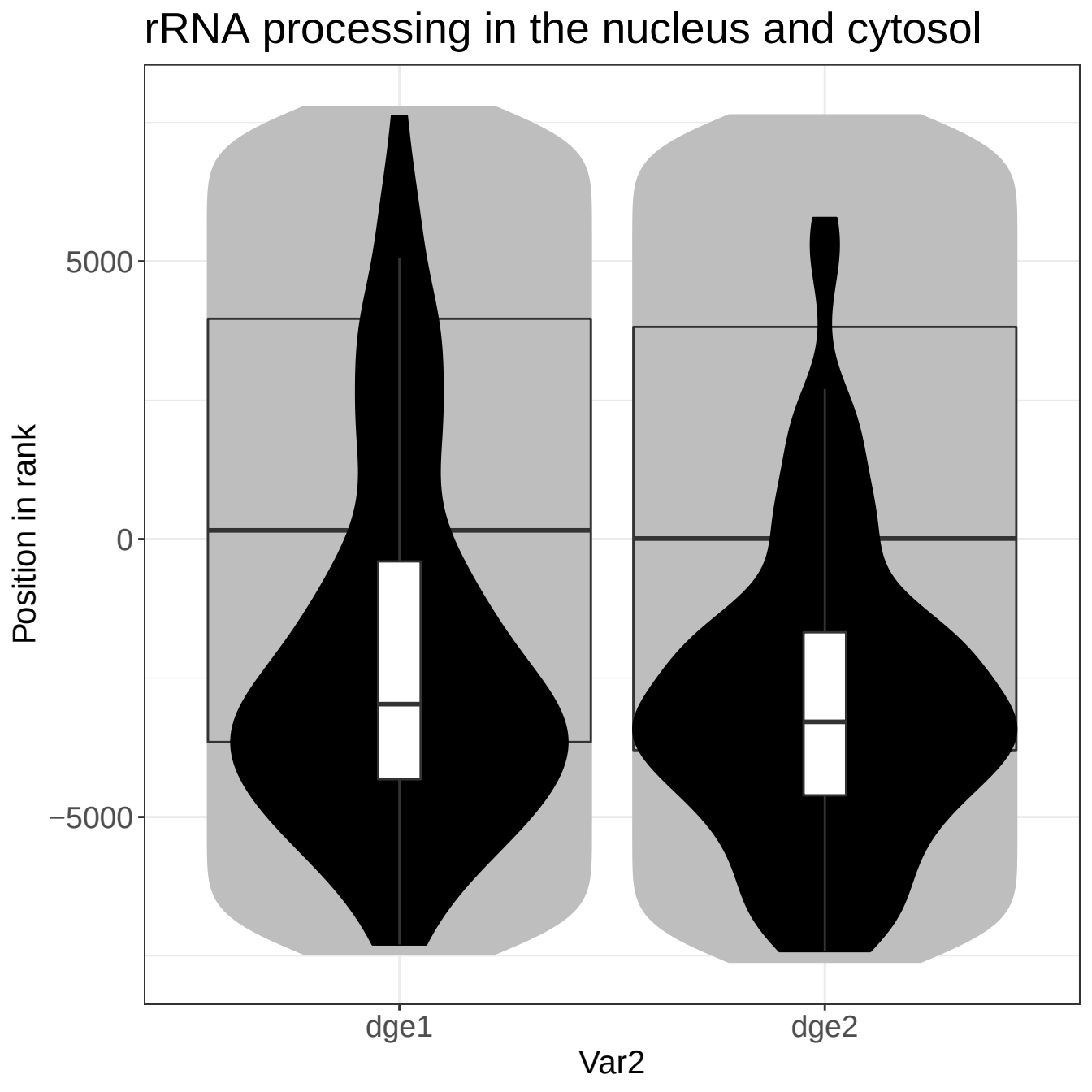

Metabolism of proteins
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−09
6e−09
4e−09
2e−09

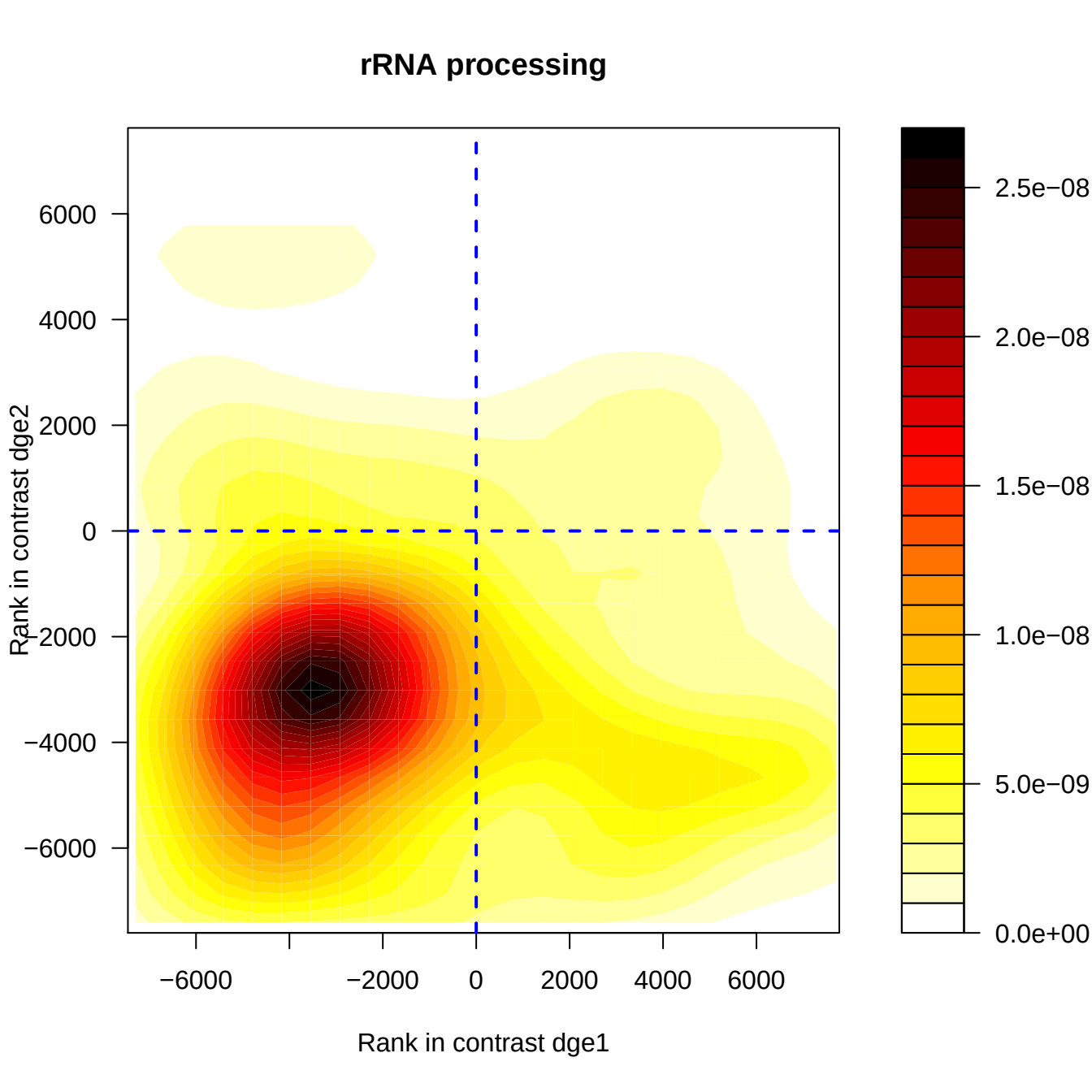

Metabolism of proteins
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

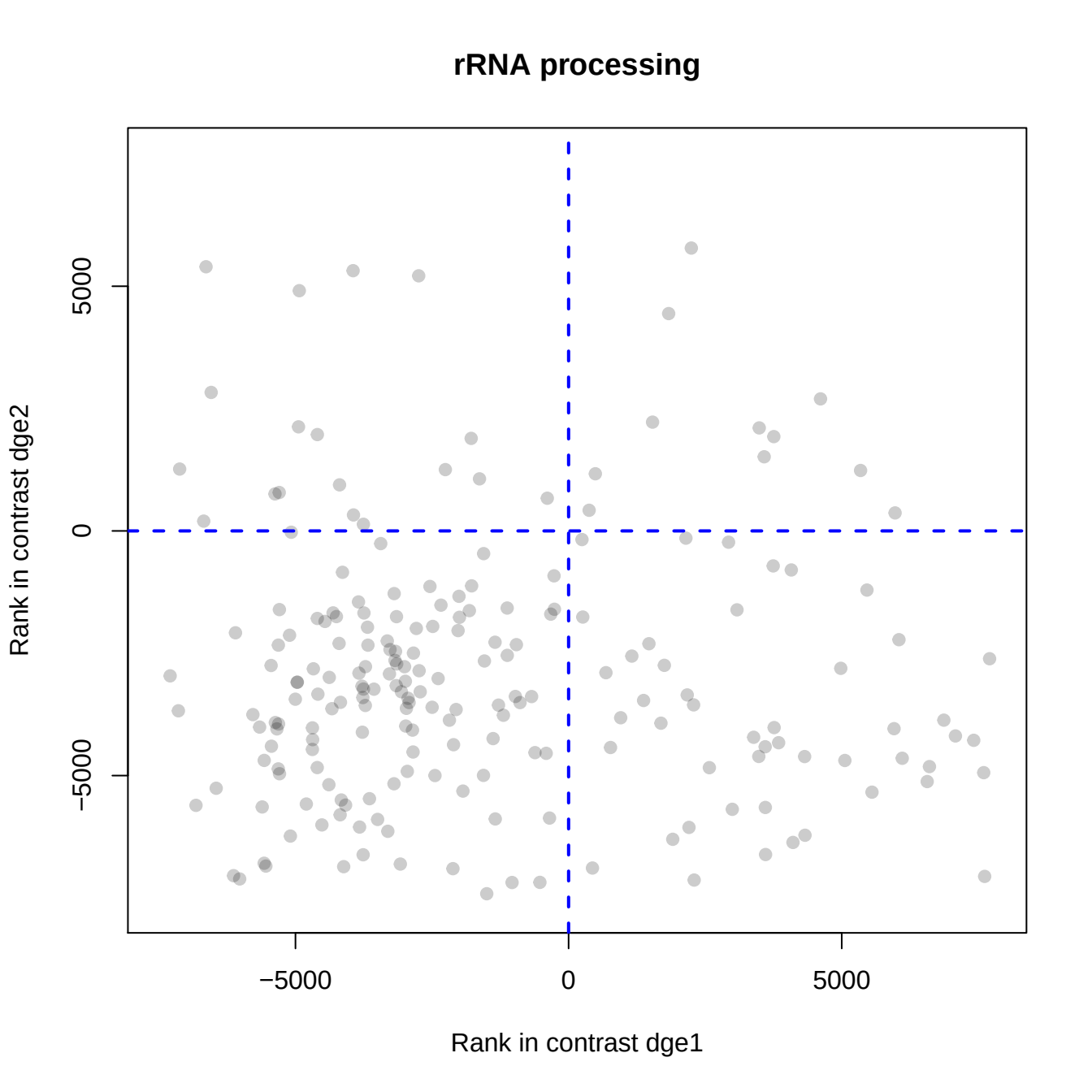

Metabolism of proteins
5000
0
−5000
Position in rank
dge1
dge2
Var2

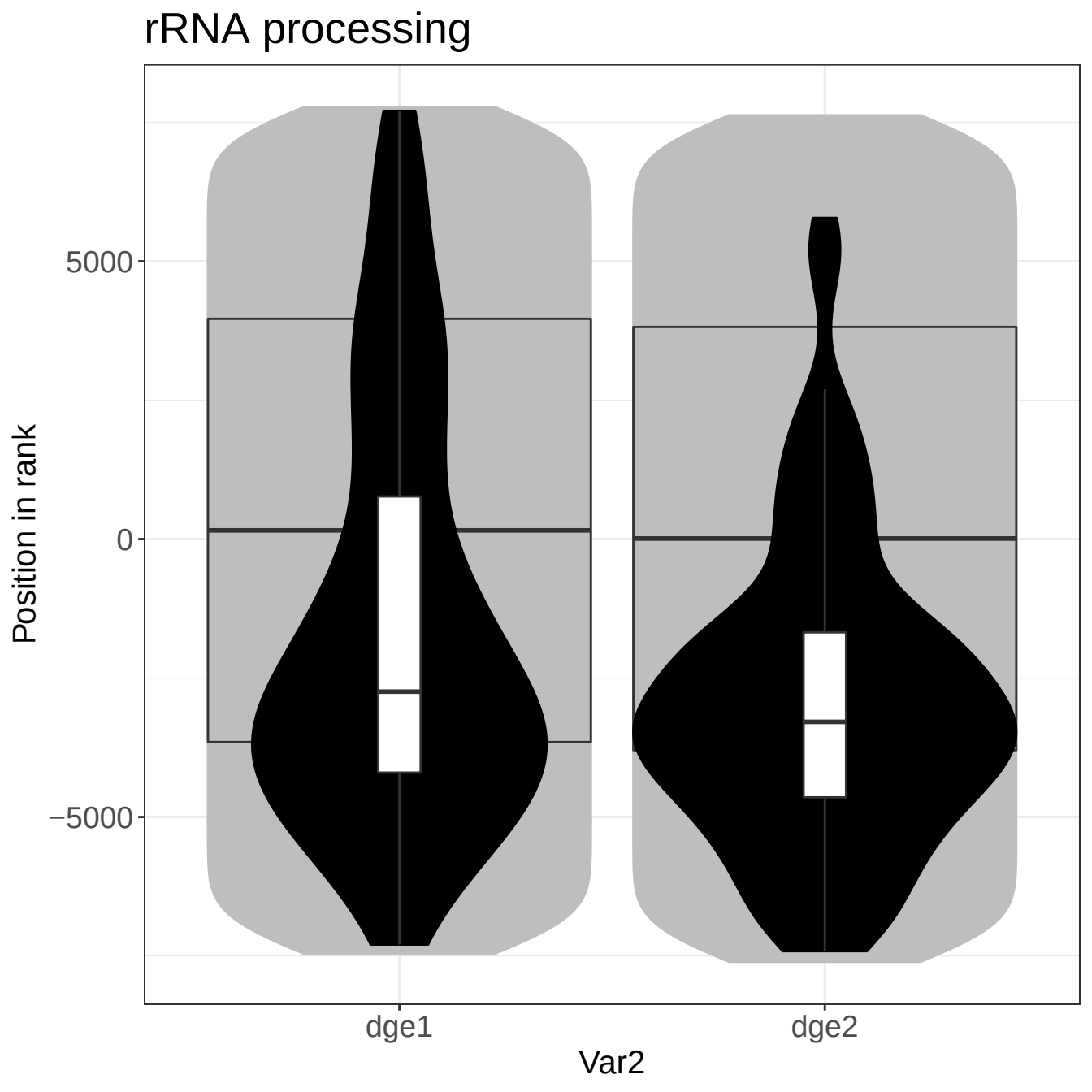

rRNA processing in the nucleus and cytosol
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
3.0e−08
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

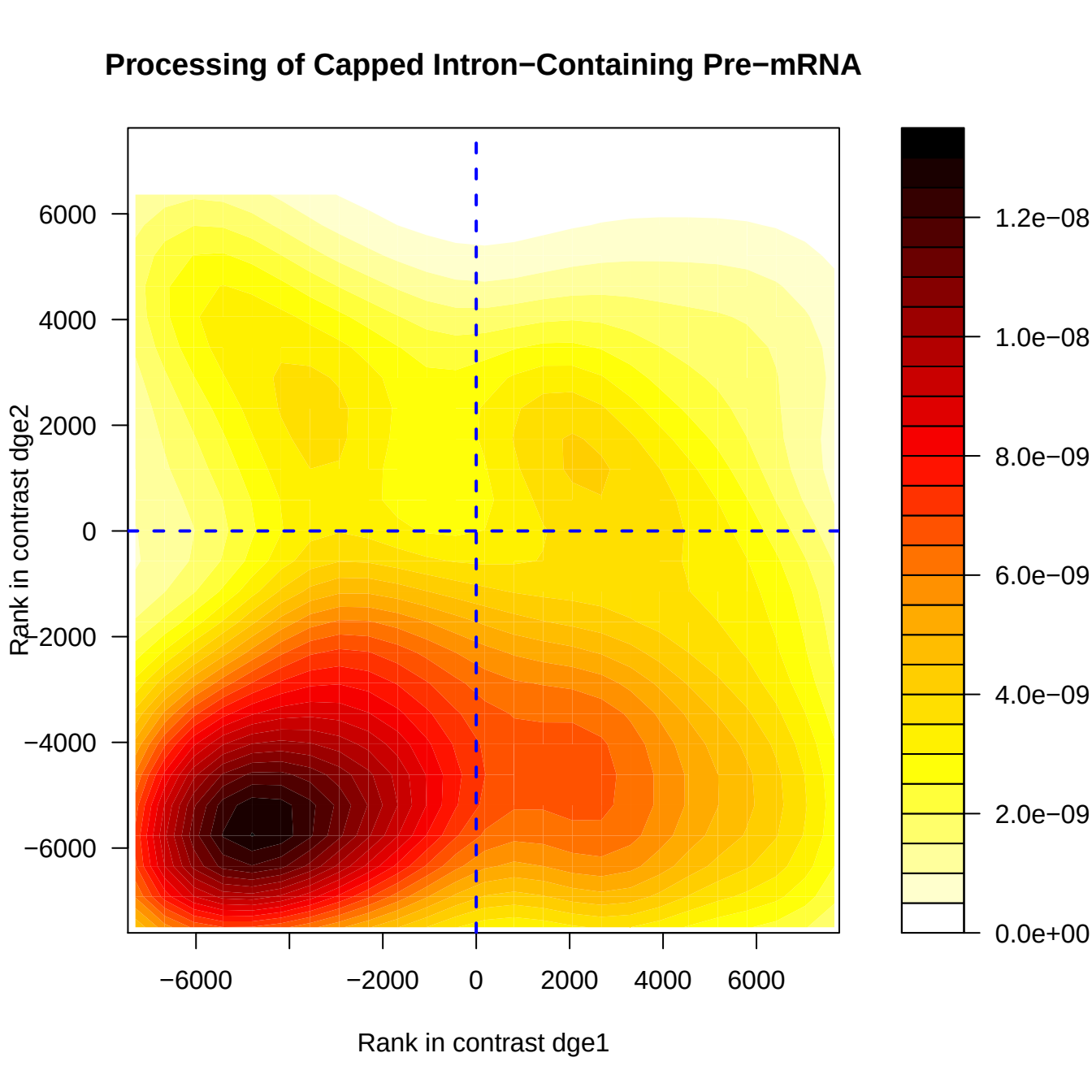

rRNA processing in the nucleus and cytosol
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

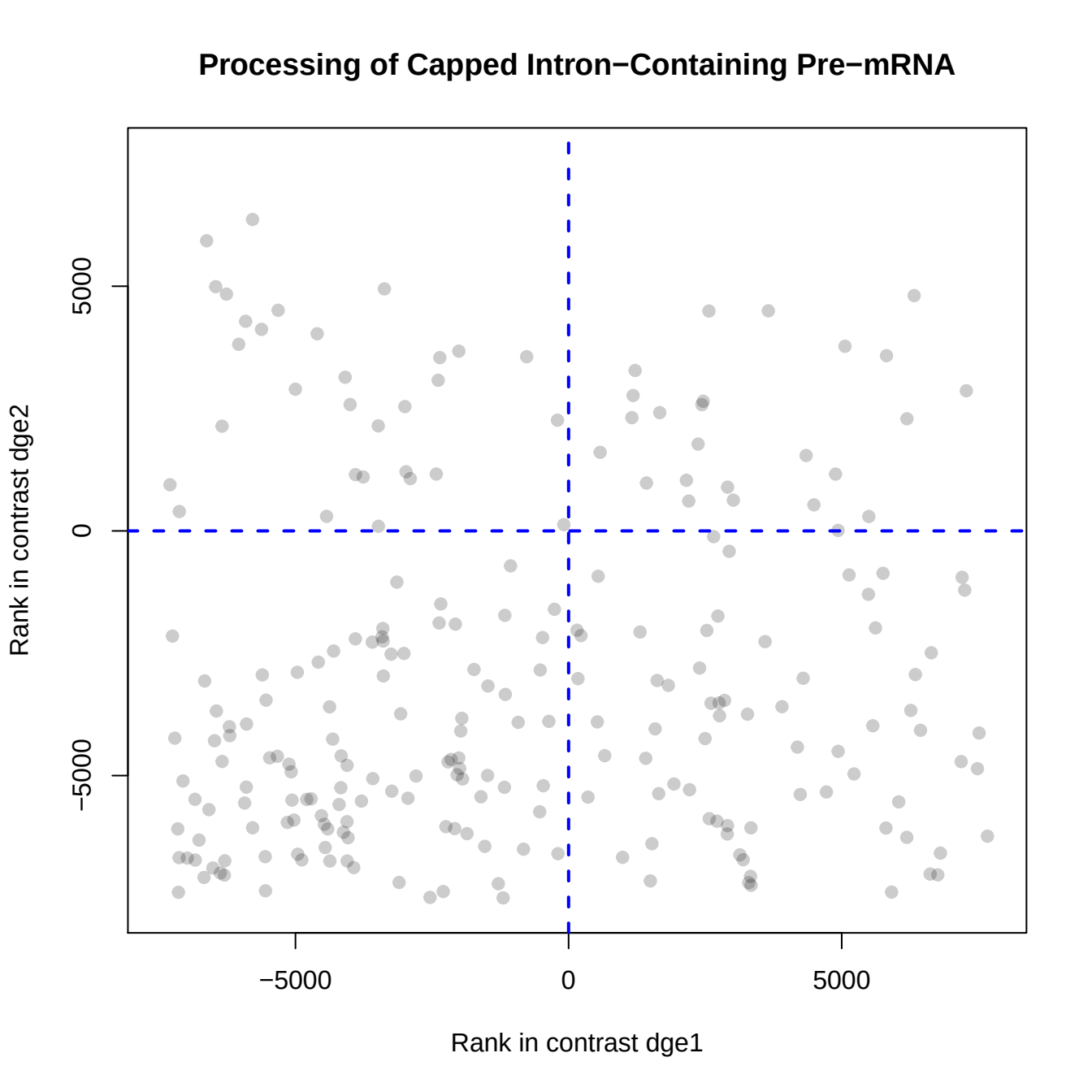

rRNA processing in the nucleus and cytosol
5000
0
−5000
Position in rank
dge1
dge2
Var2

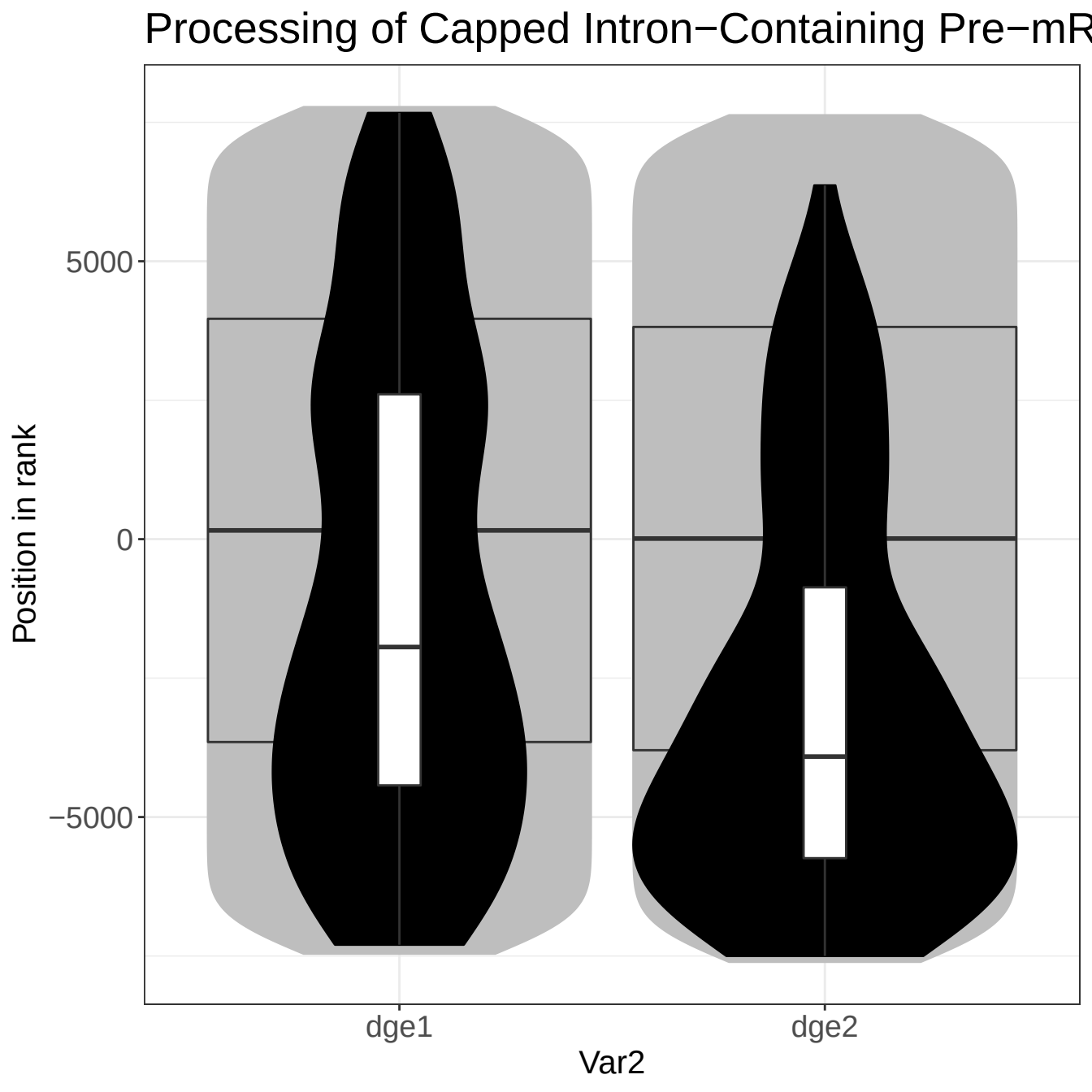

rRNA processing
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

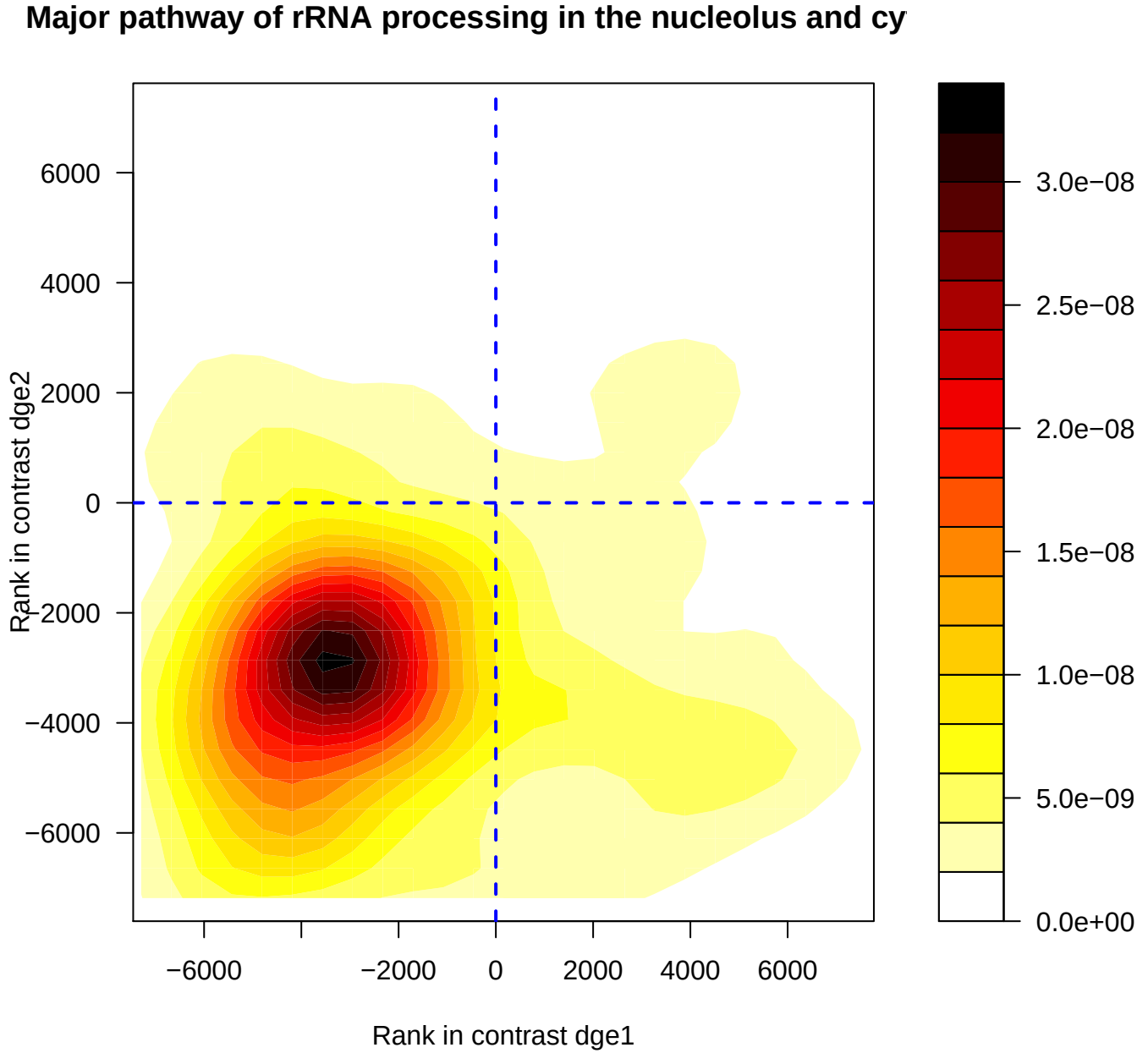

rRNA processing
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

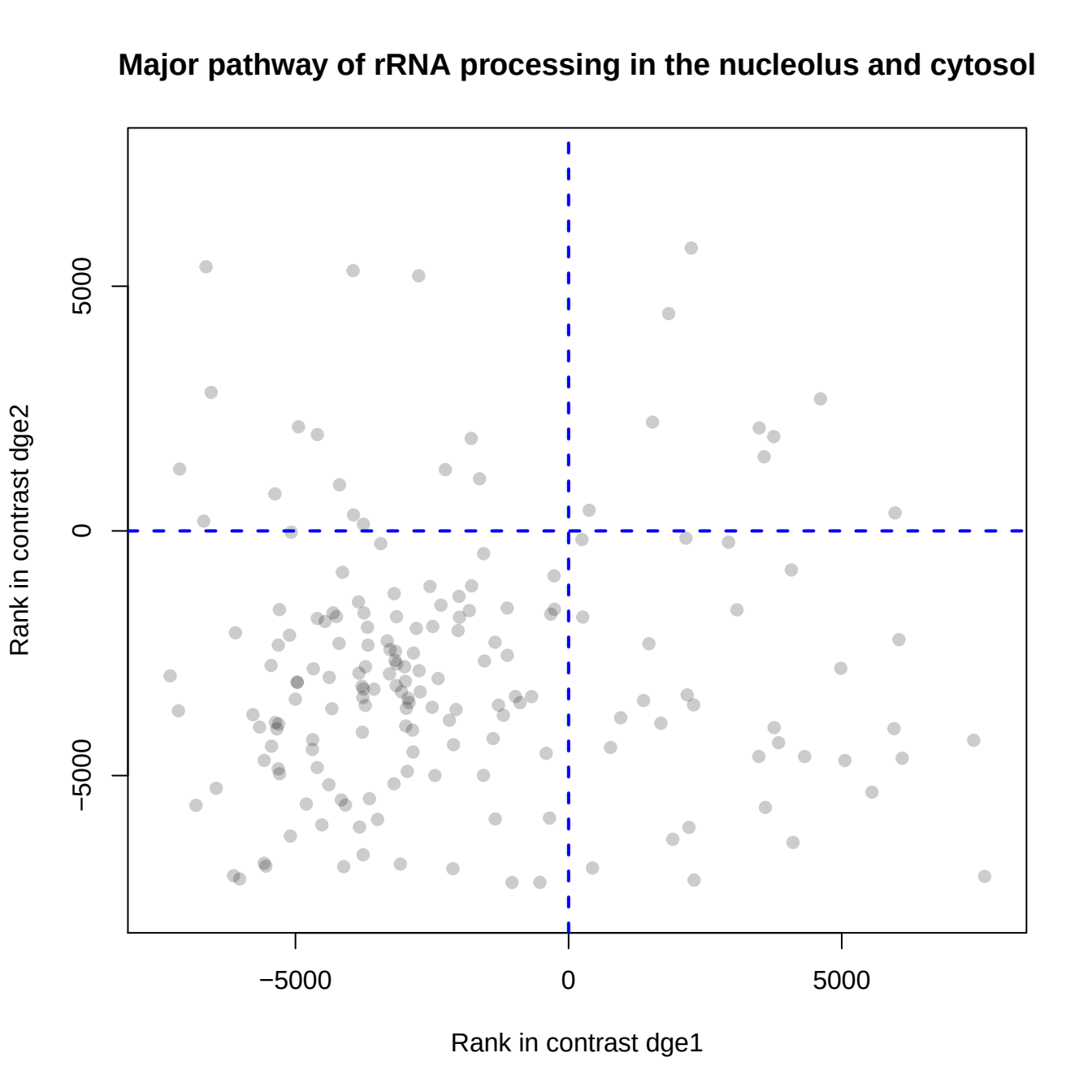

rRNA processing
5000
0
−5000
Position in rank
dge1
dge2
Var2

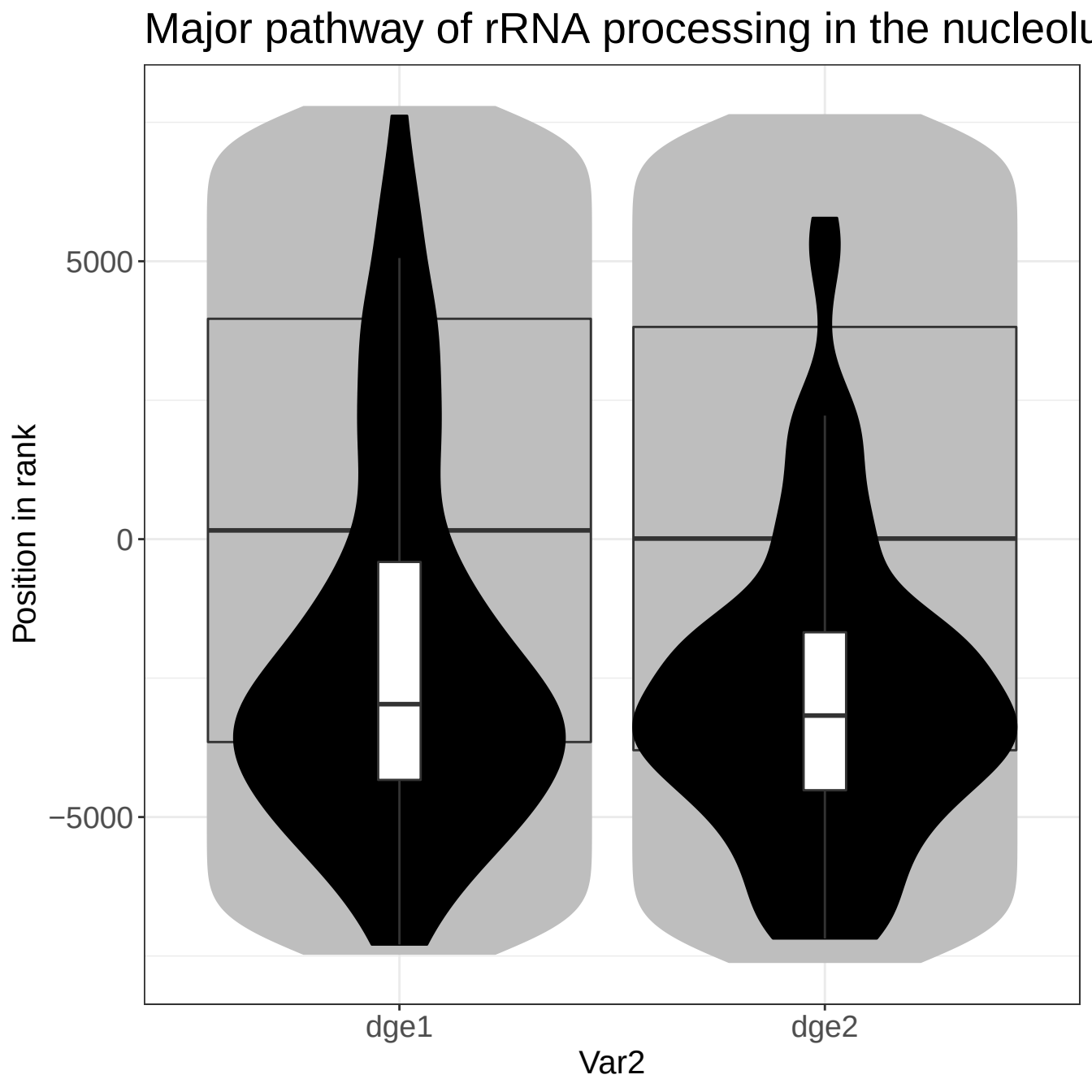

Processing of Capped Intron−Containing Pre−mRNA
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09
0.0e+00

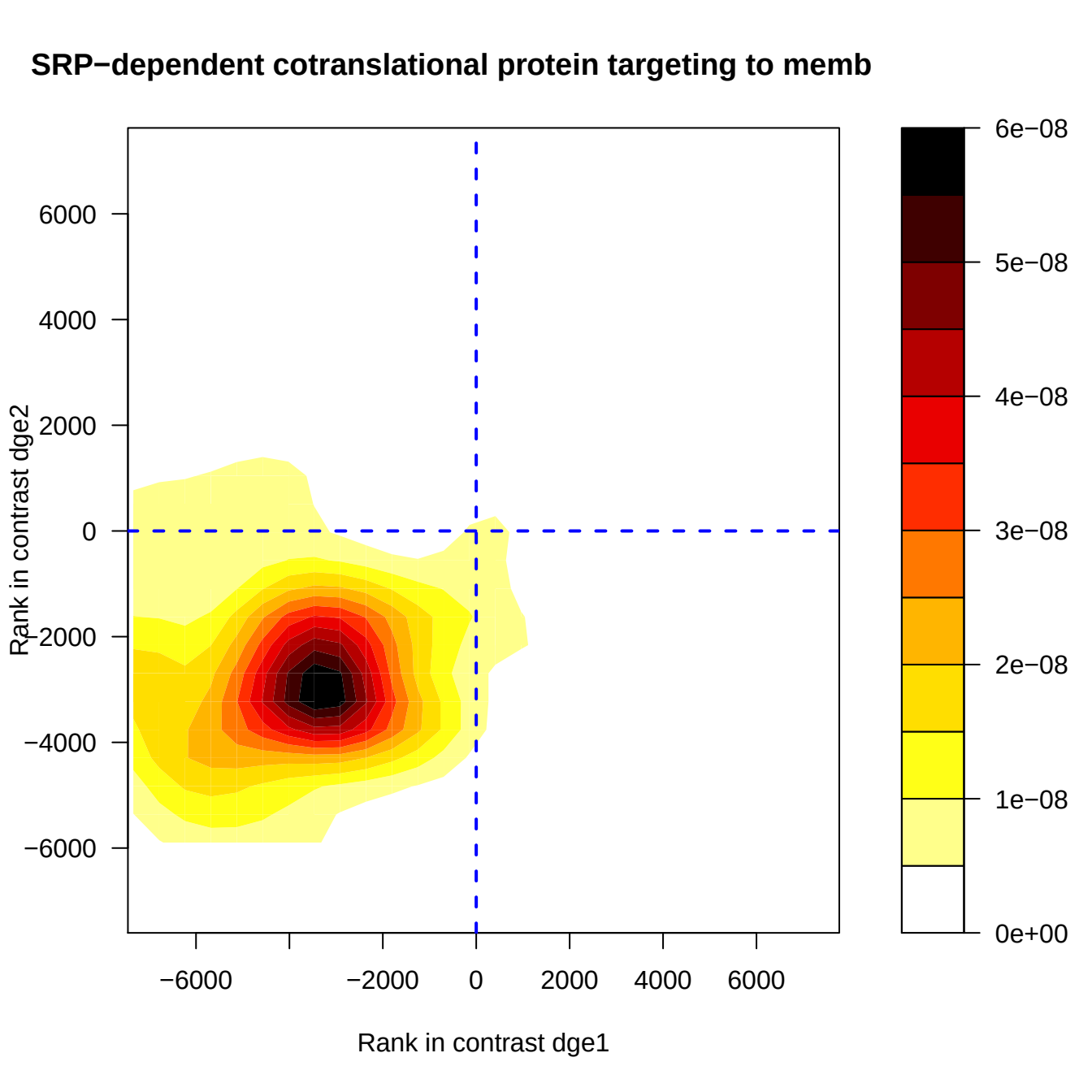

Processing of Capped Intron−Containing Pre−mRNA
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

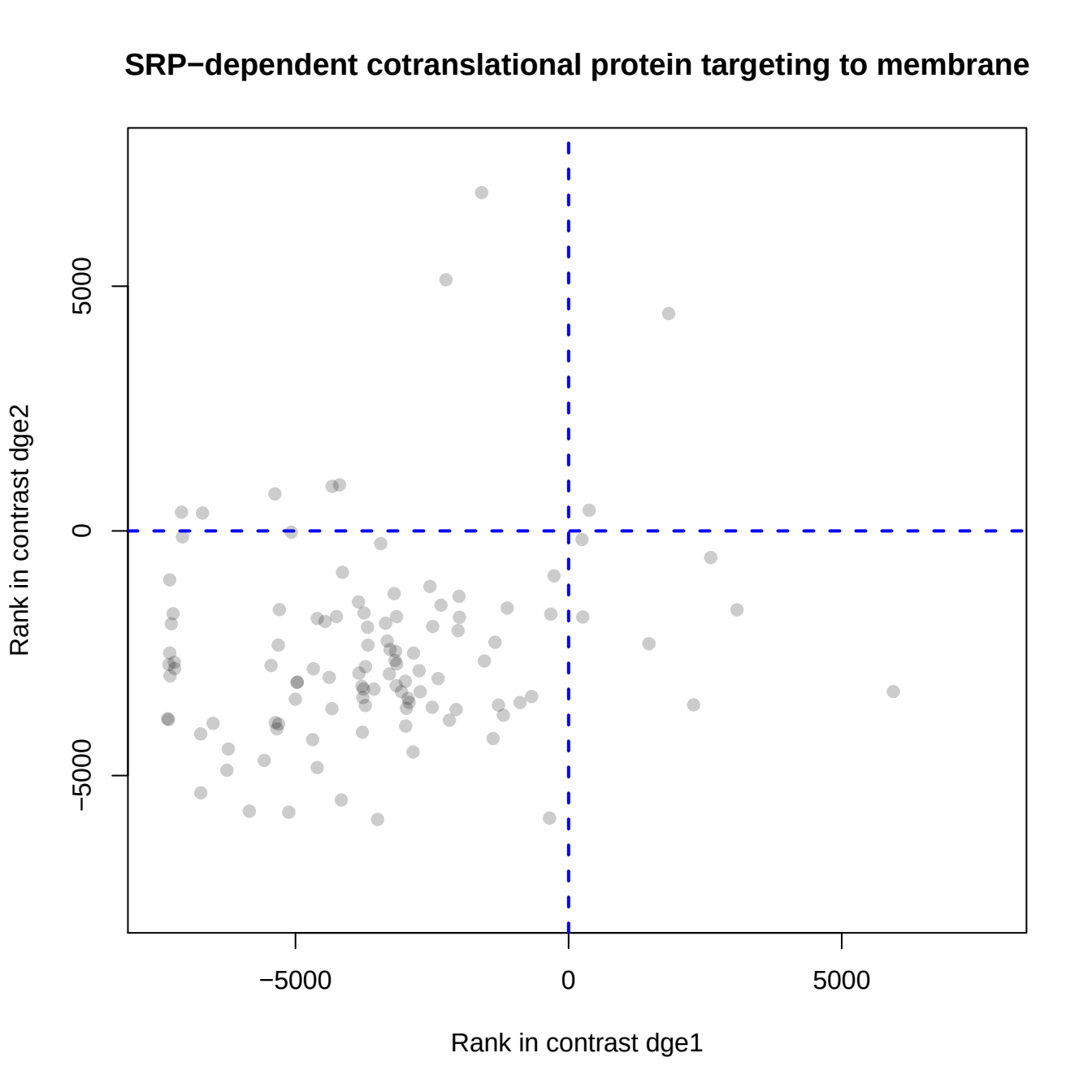

Processing of Capped Intron−Containing Pre−mR
5000
0
−5000
Position in rank
dge1
dge2
Var2

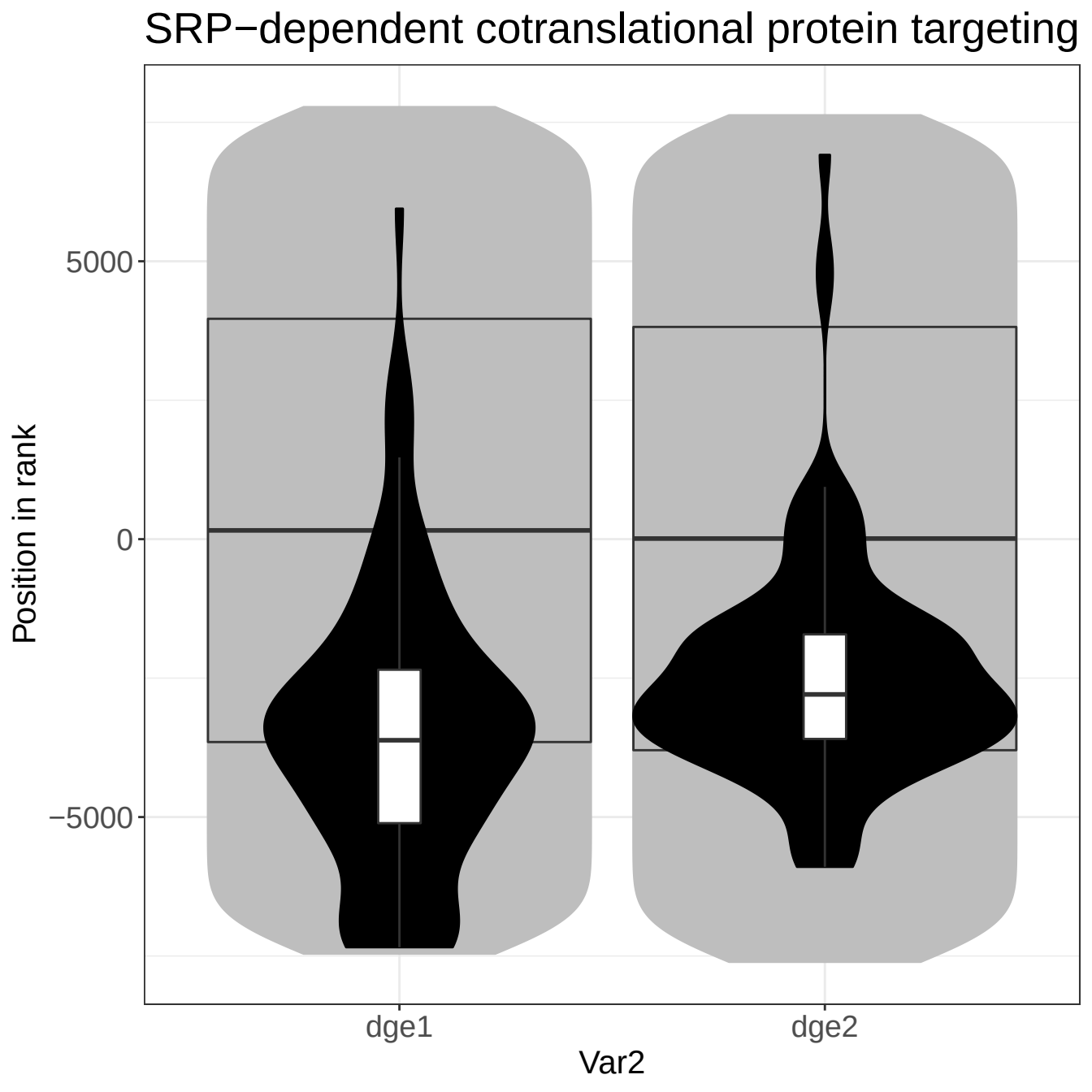

Major pathway of rRNA processing in the nucleolus and cy
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
3.0e−08
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

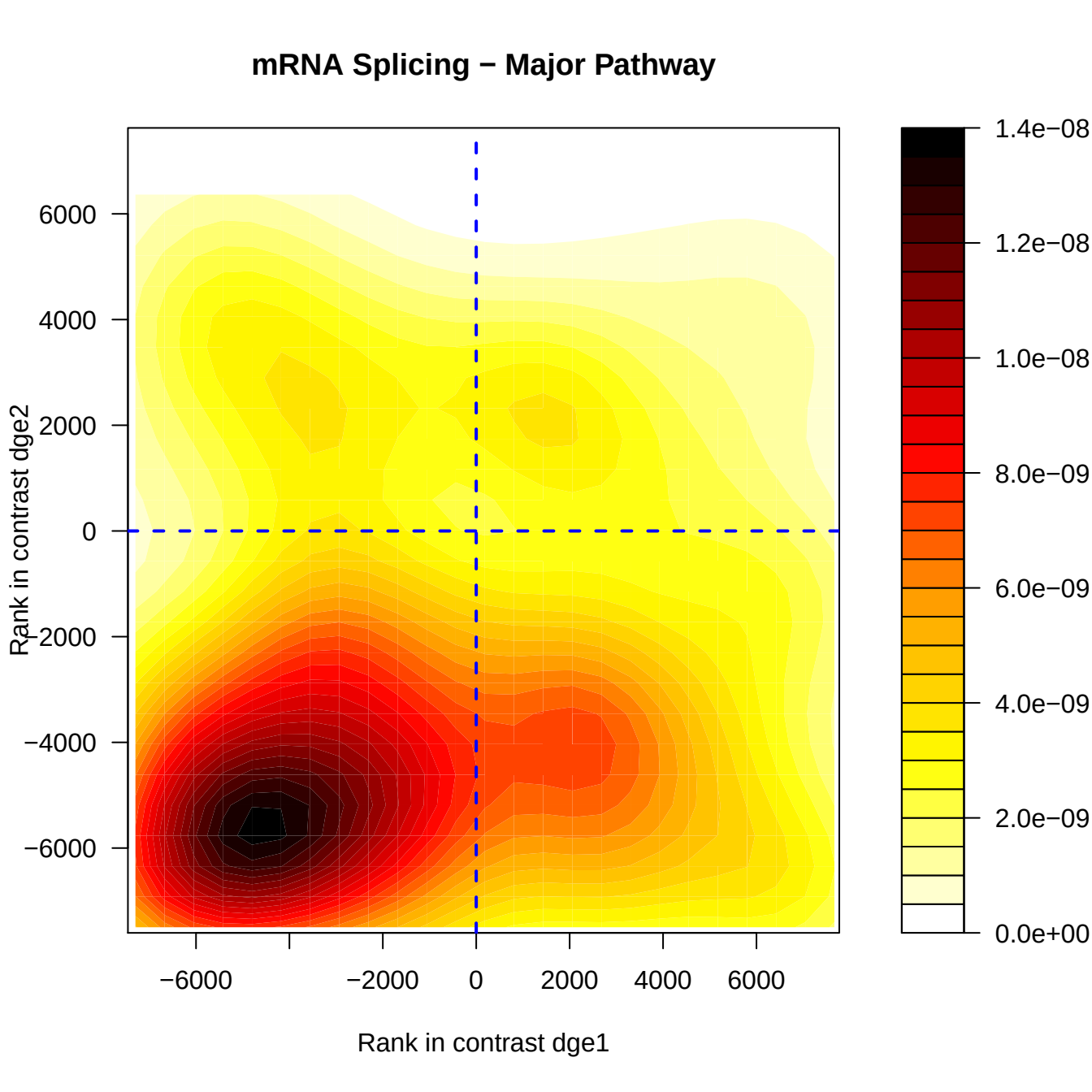

Major pathway of rRNA processing in the nucleolus and cytosol
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

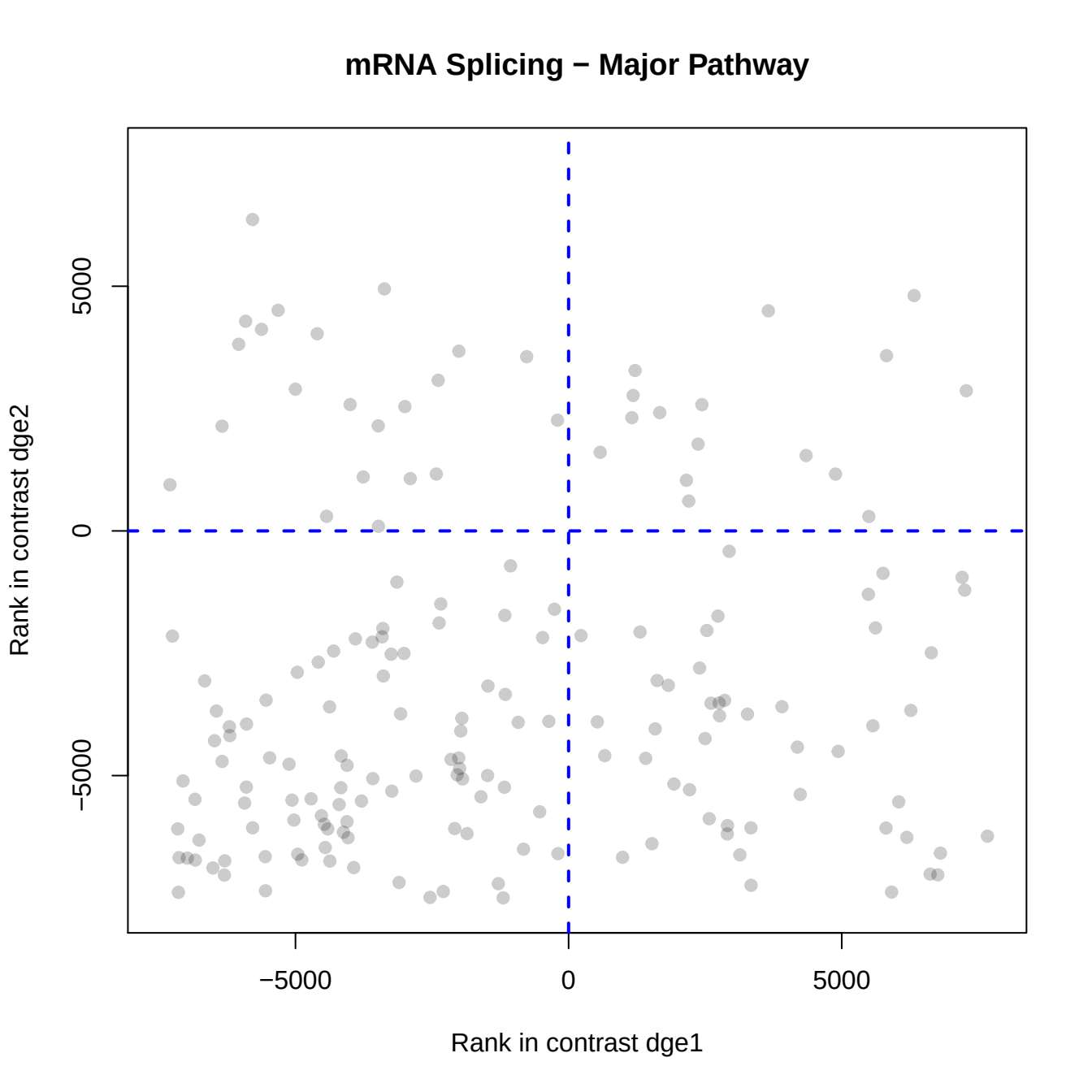

Major pathway of rRNA processing in the nucleolu
5000
0
−5000
Position in rank
dge1
dge2
Var2

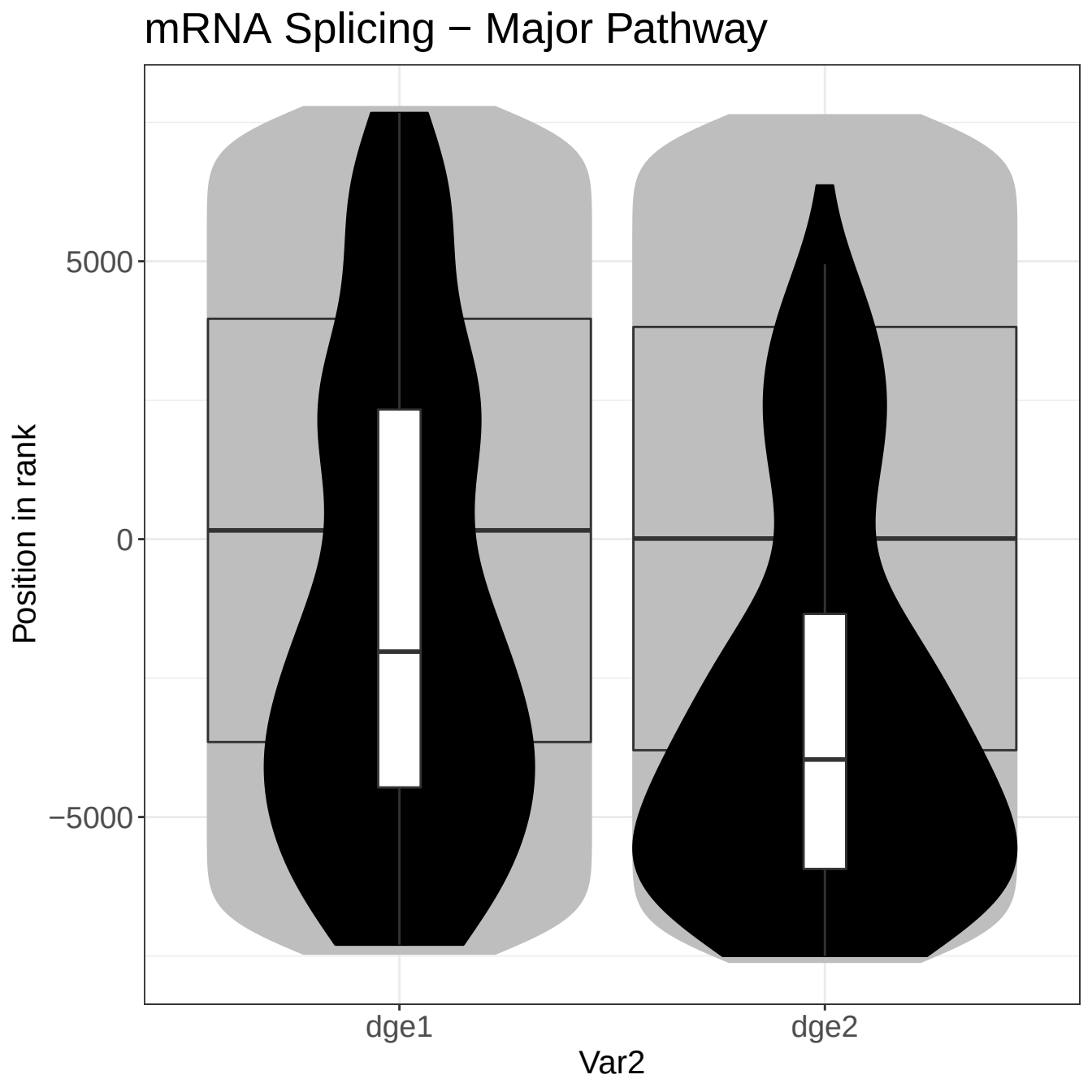

SRP−dependent cotranslational protein targeting to memb
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

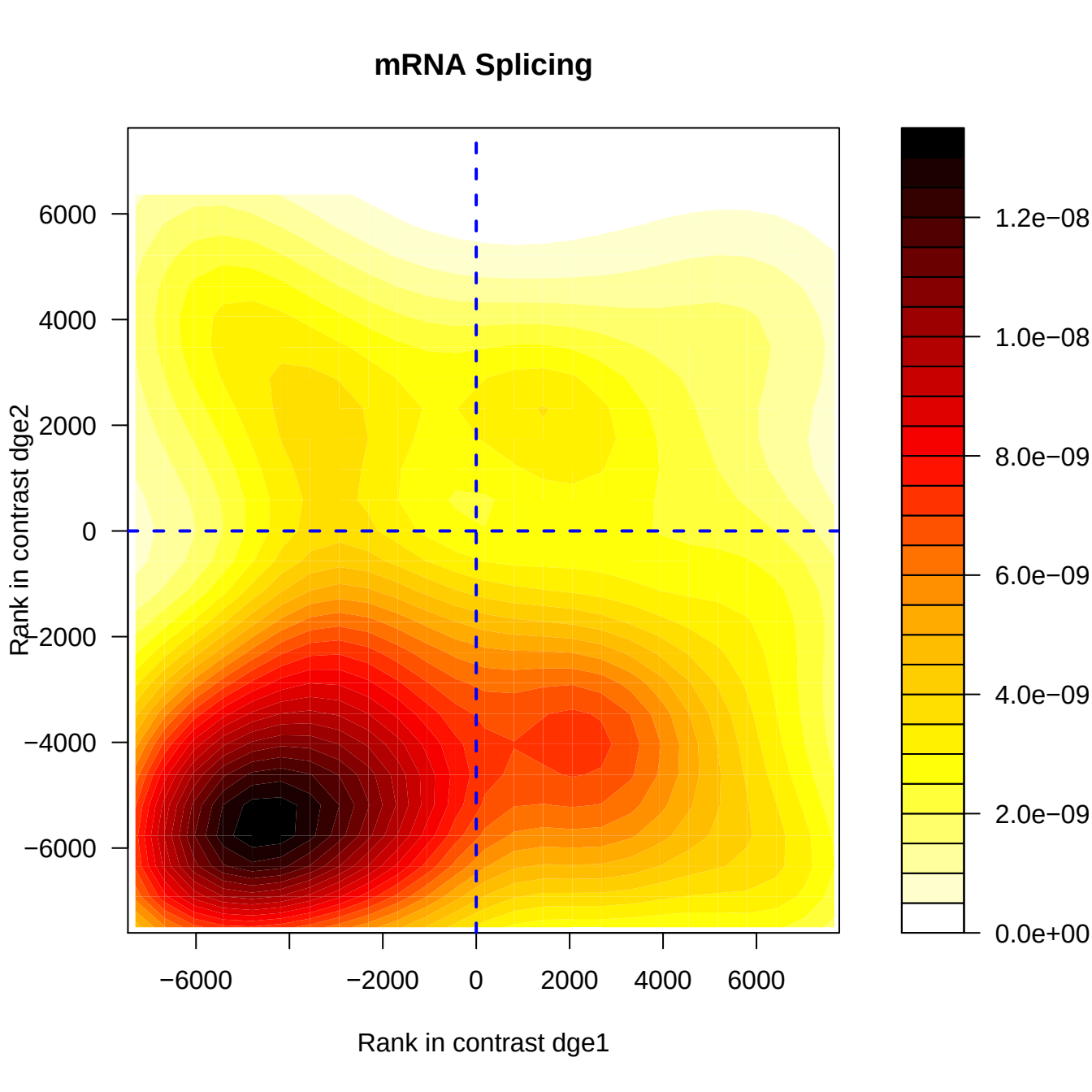

SRP−dependent cotranslational protein targeting to membrane
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

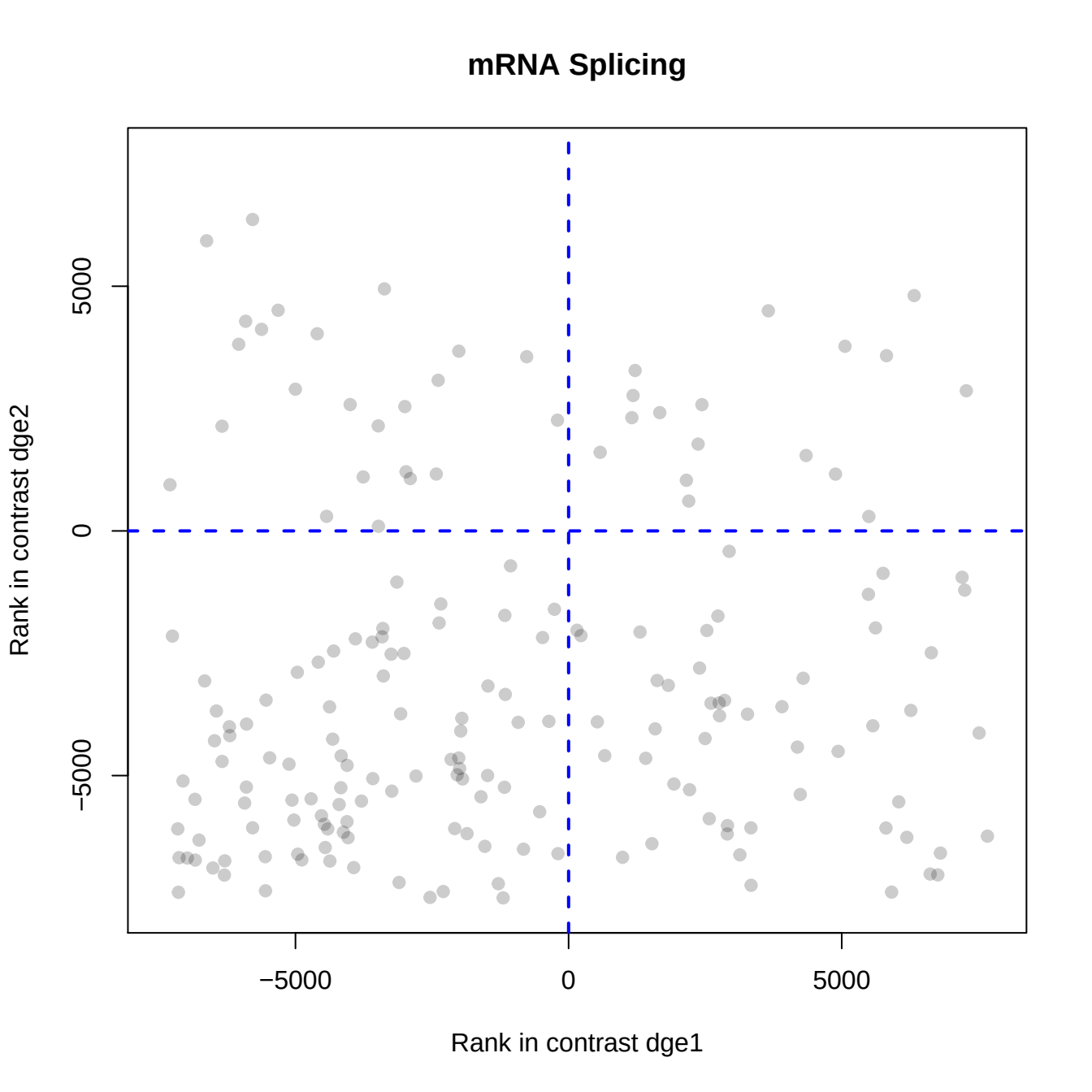

SRP−dependent cotranslational protein targeting
5000
0
−5000
Position in rank
dge1
dge2
Var2

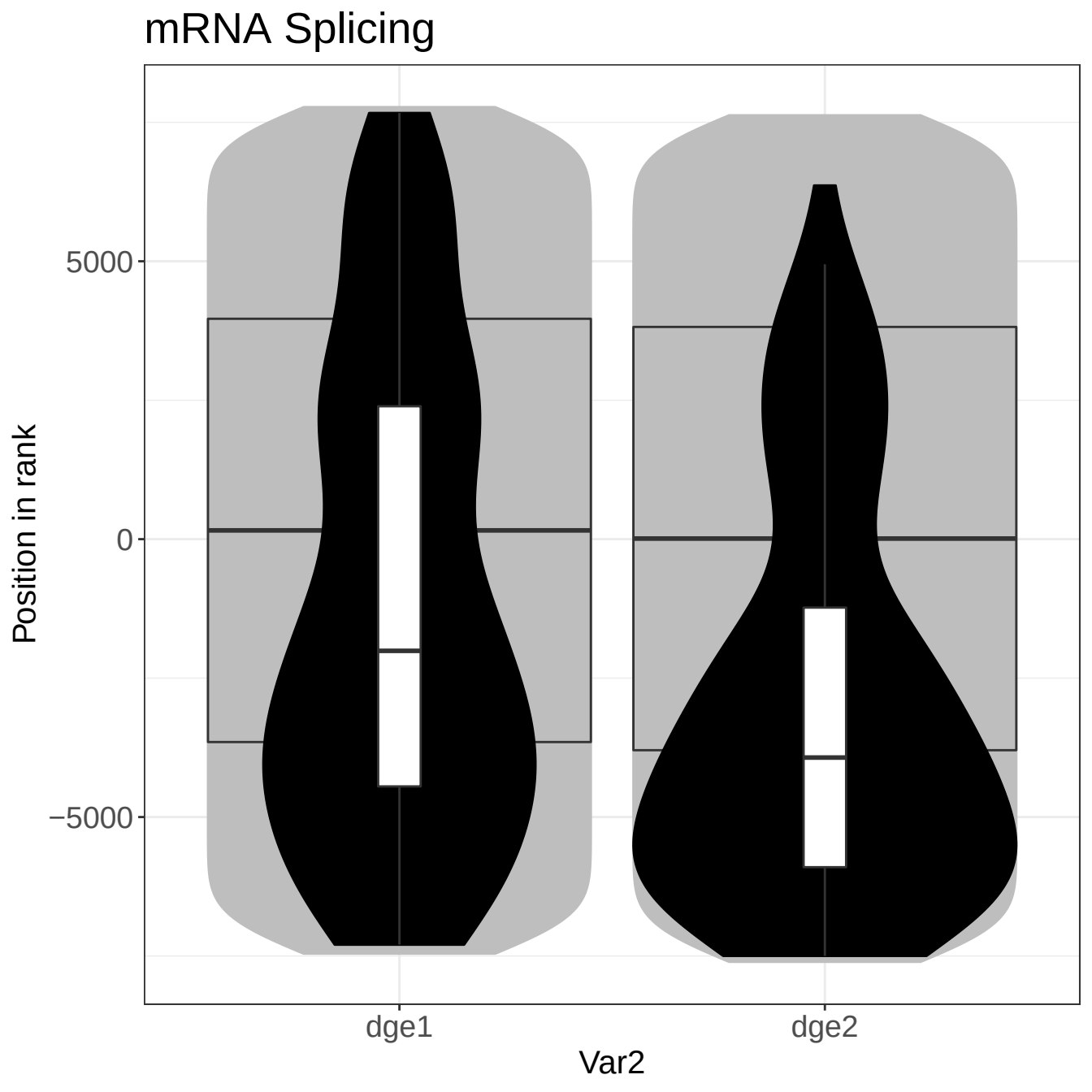

mRNA Splicing − Major Pathway
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
1.4e−08
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09
0.0e+00

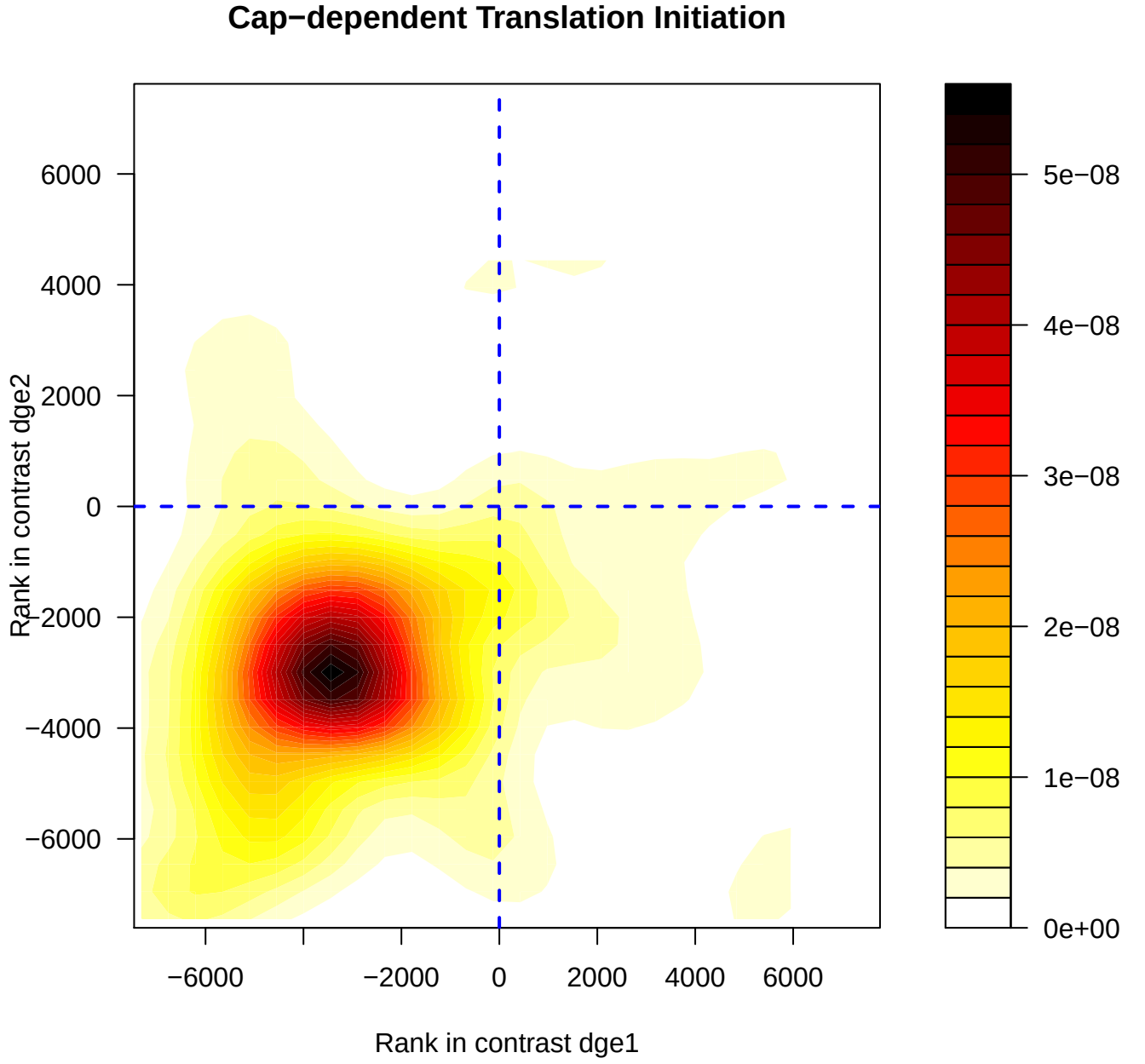

mRNA Splicing − Major Pathway
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

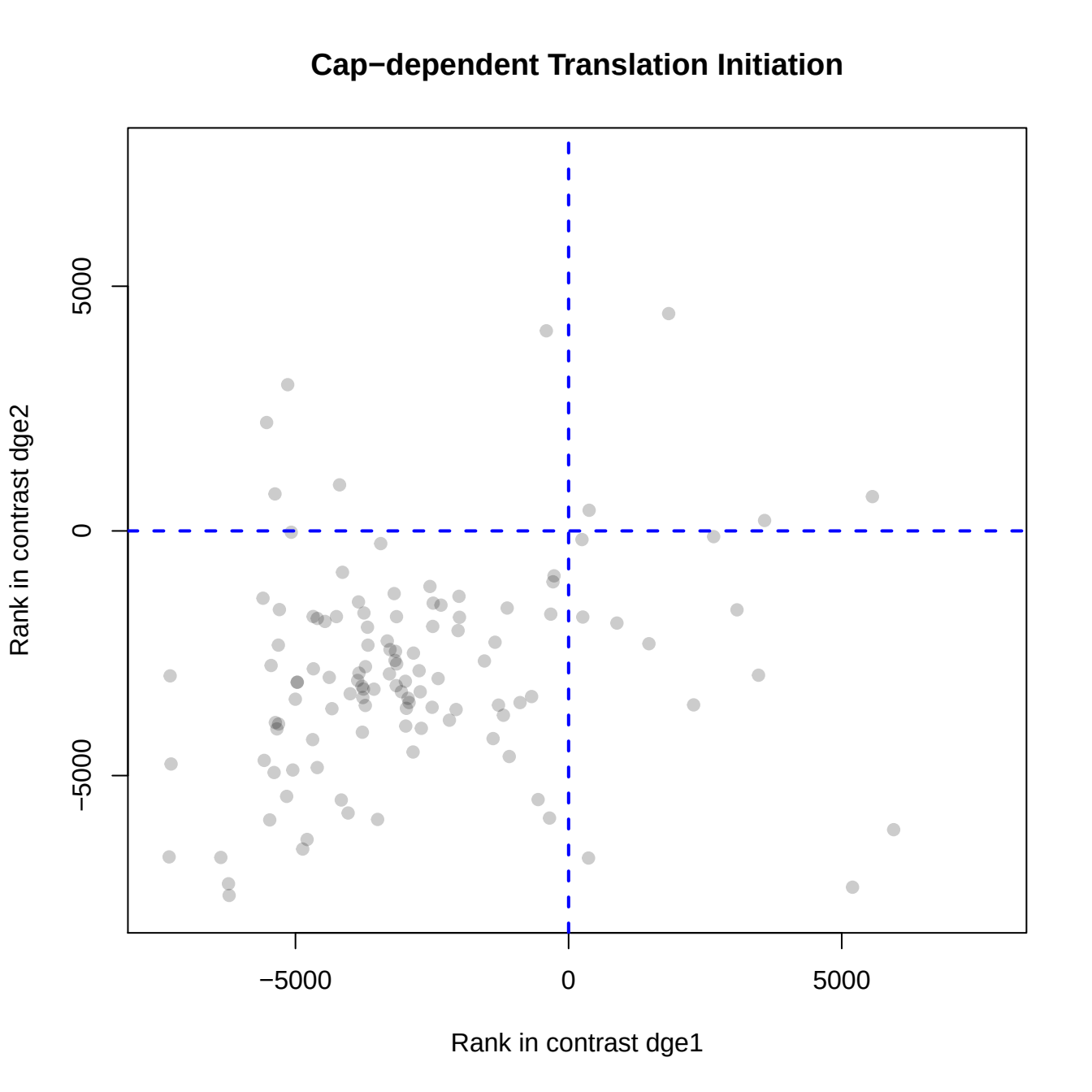

mRNA Splicing − Major Pathway
5000
0
−5000
Position in rank
dge1
dge2
Var2

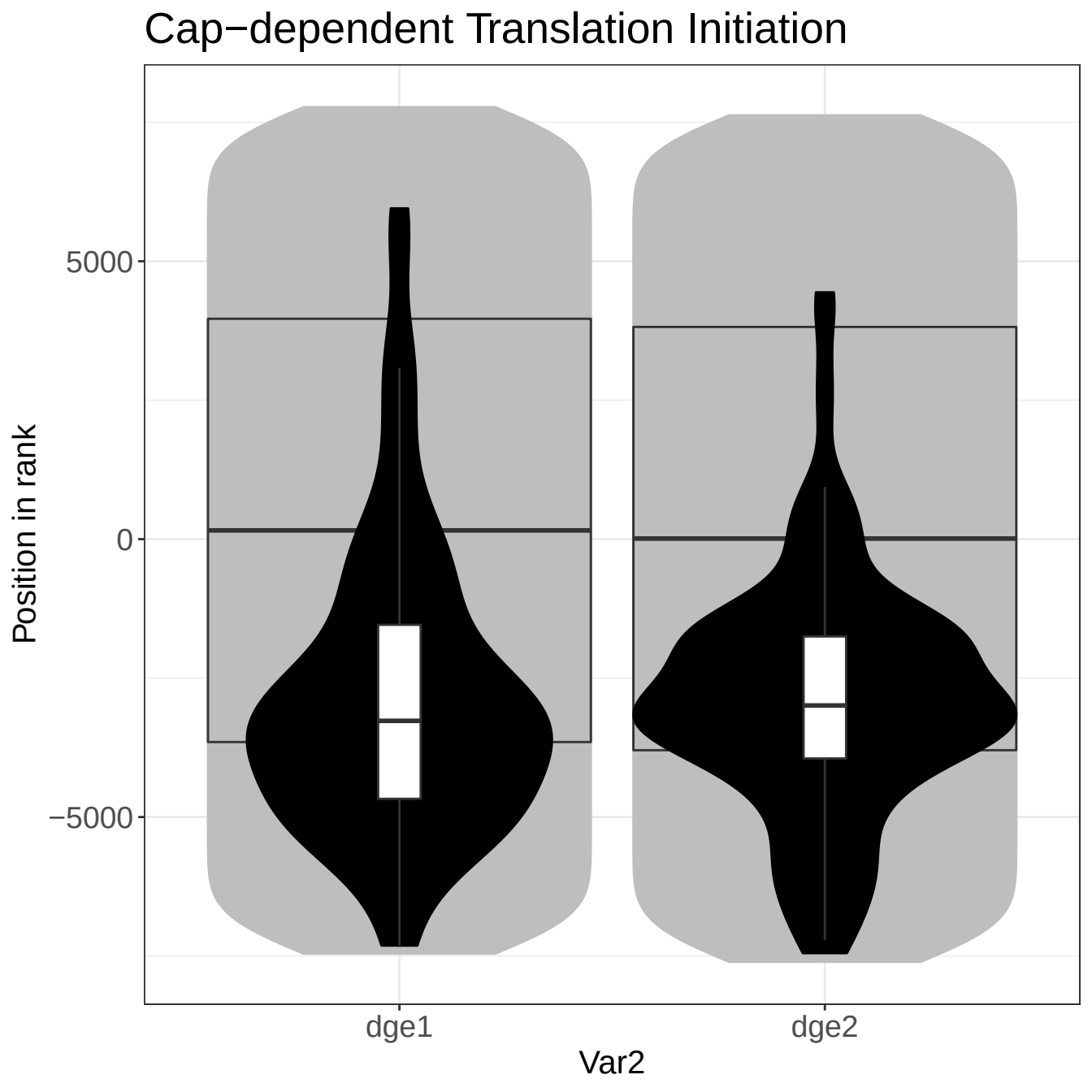

mRNA Splicing
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09
0.0e+00

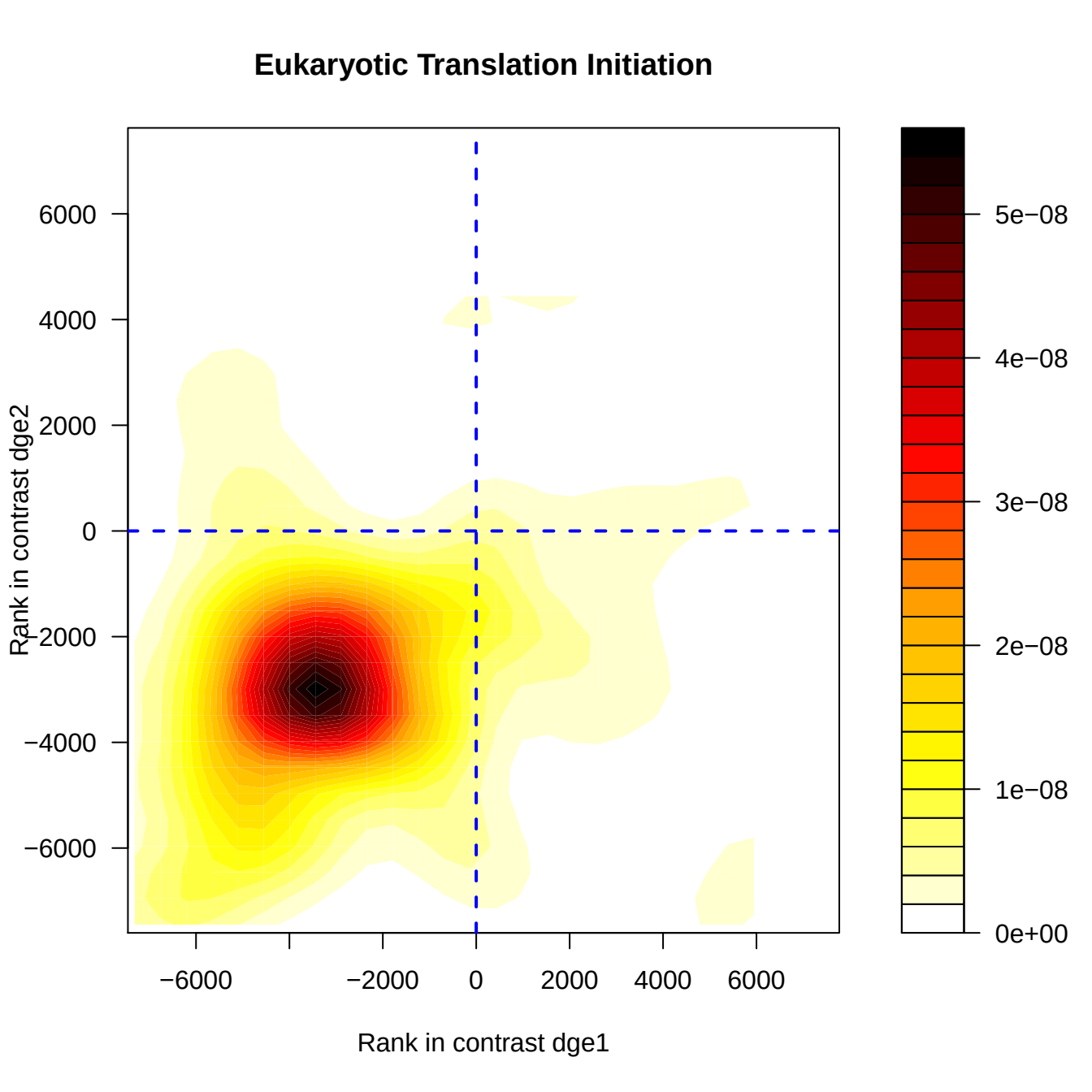

mRNA Splicing
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

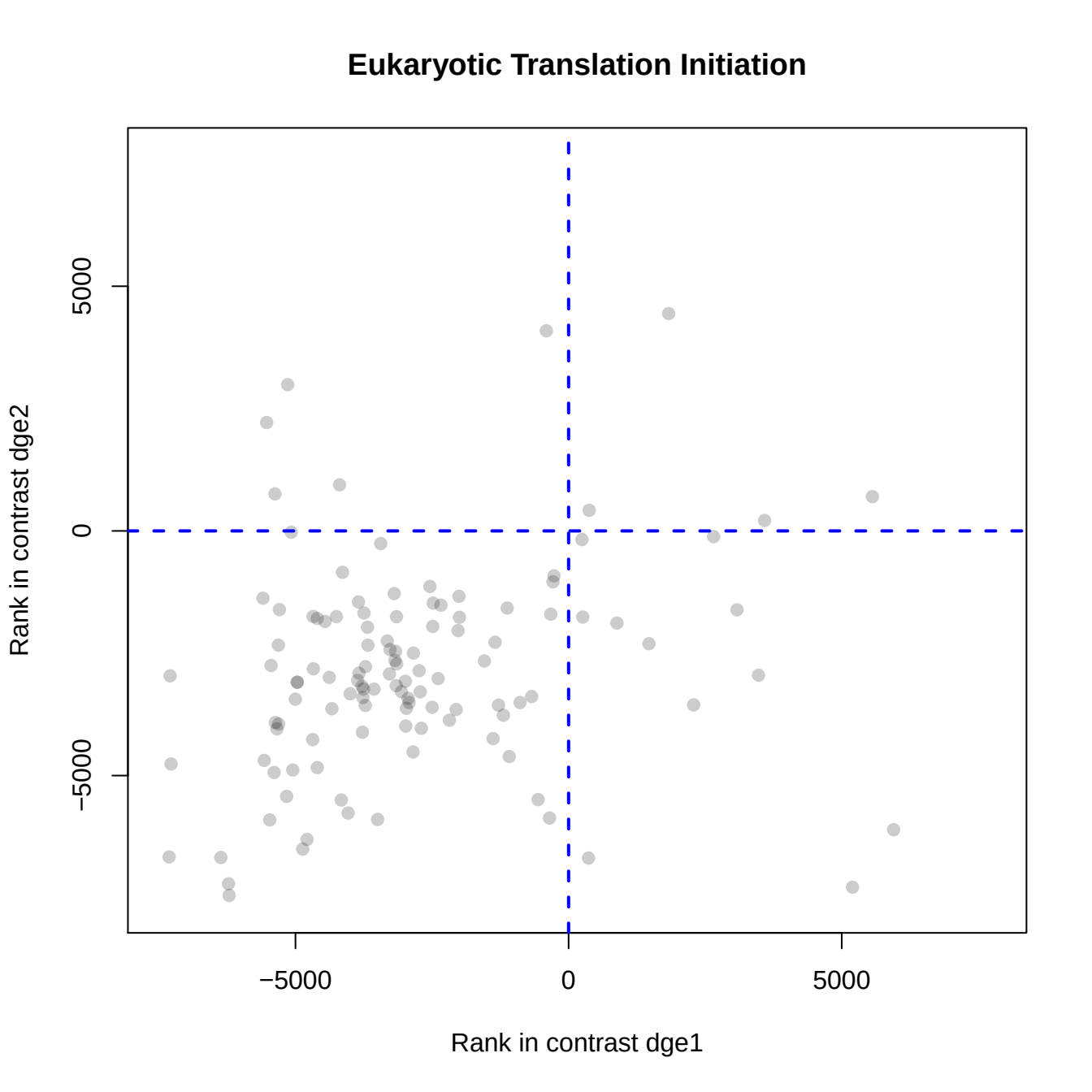

mRNA Splicing
5000
0
−5000
Position in rank
dge1
dge2
Var2

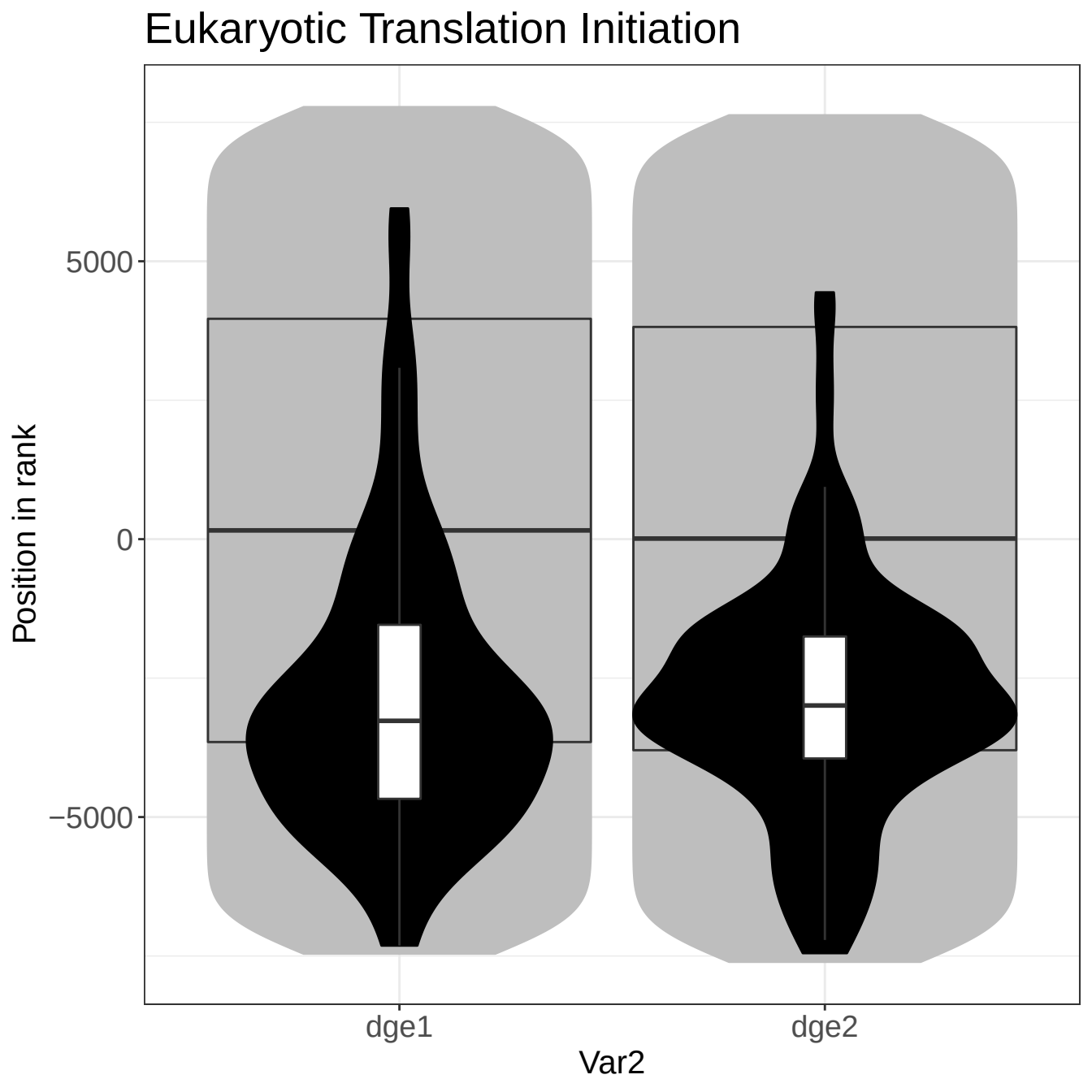

Cap−dependent Translation Initiation
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

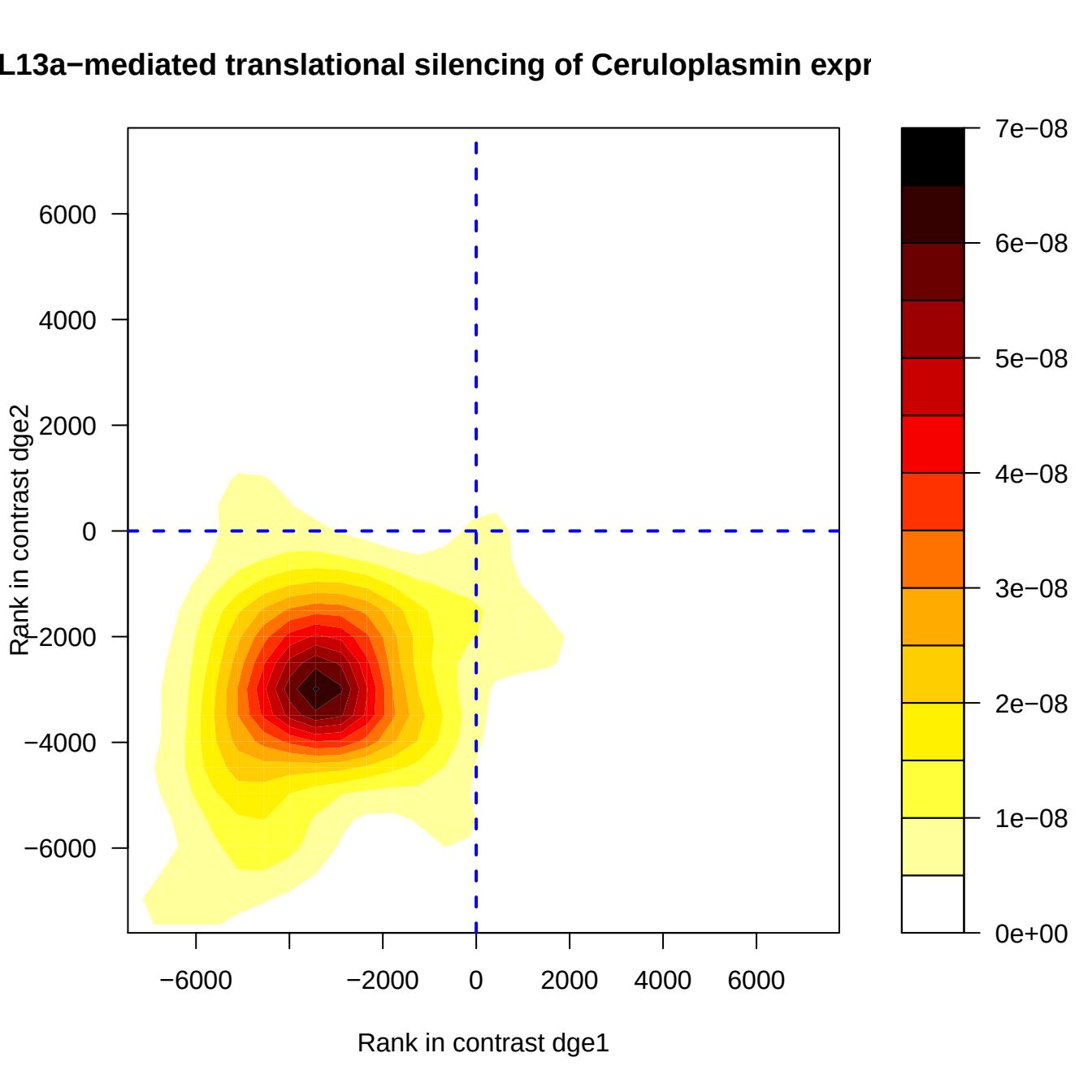

Cap−dependent Translation Initiation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

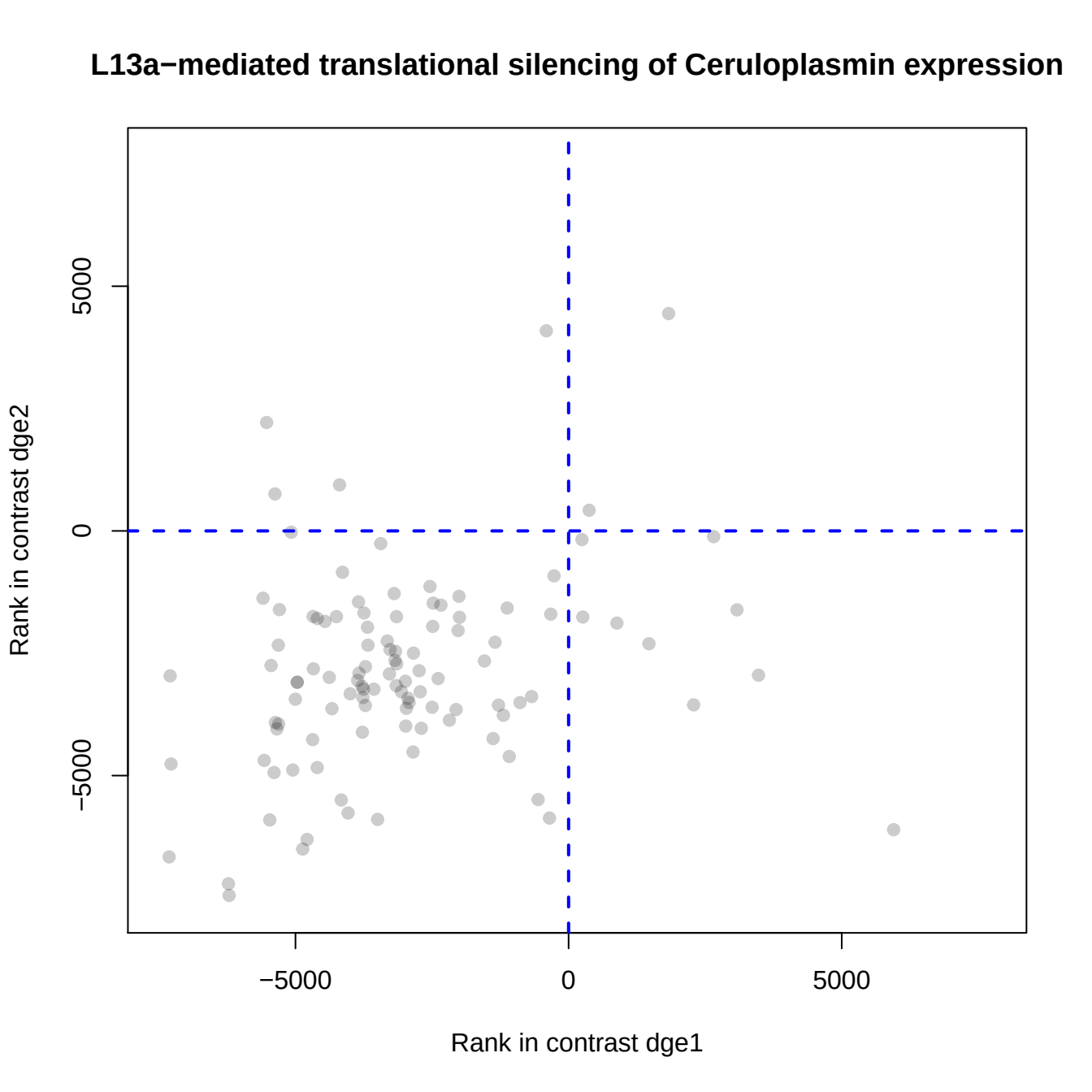

Cap−dependent Translation Initiation
Position in rank
5000
0
−5000
dge1
dge2
Var2

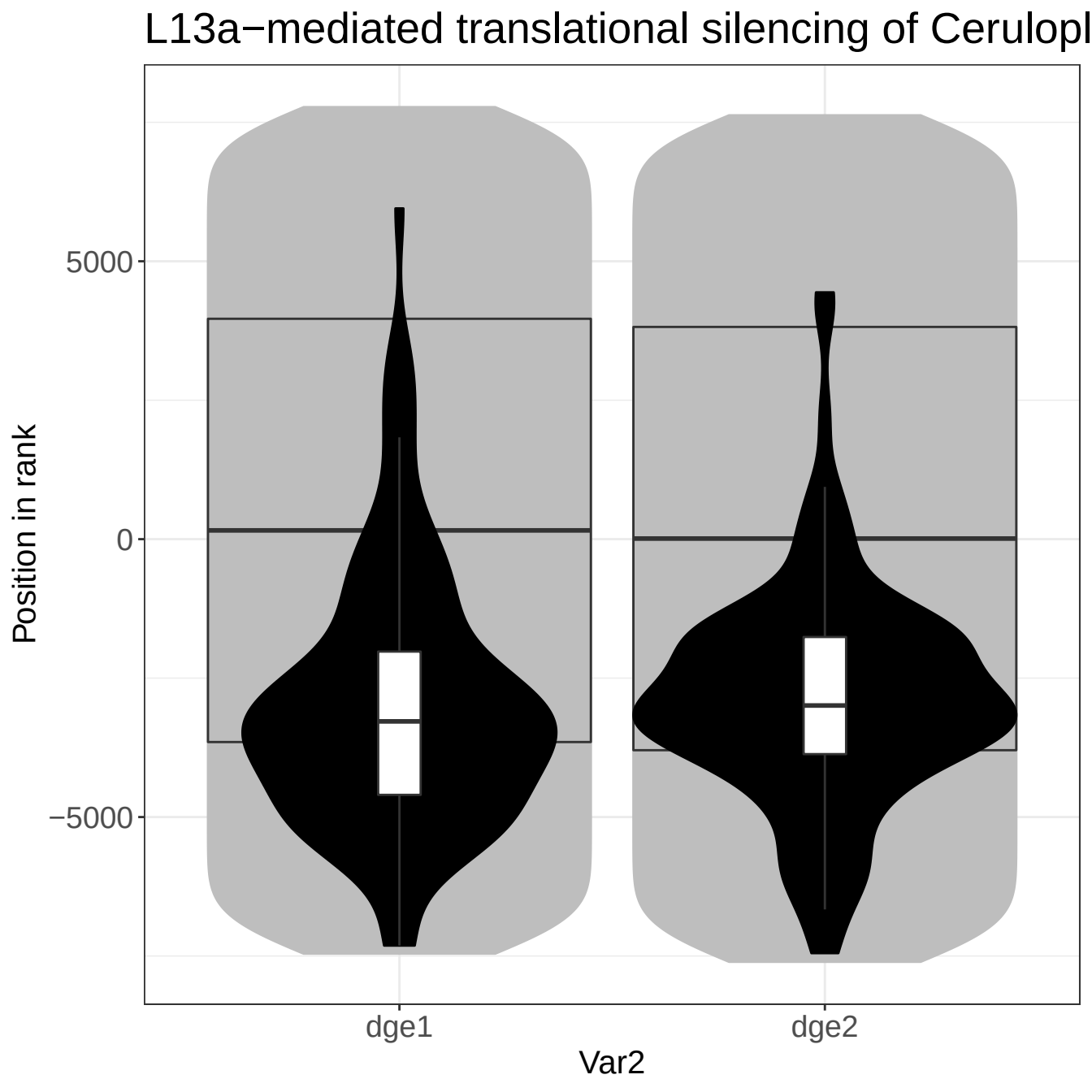

Eukaryotic Translation Initiation
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

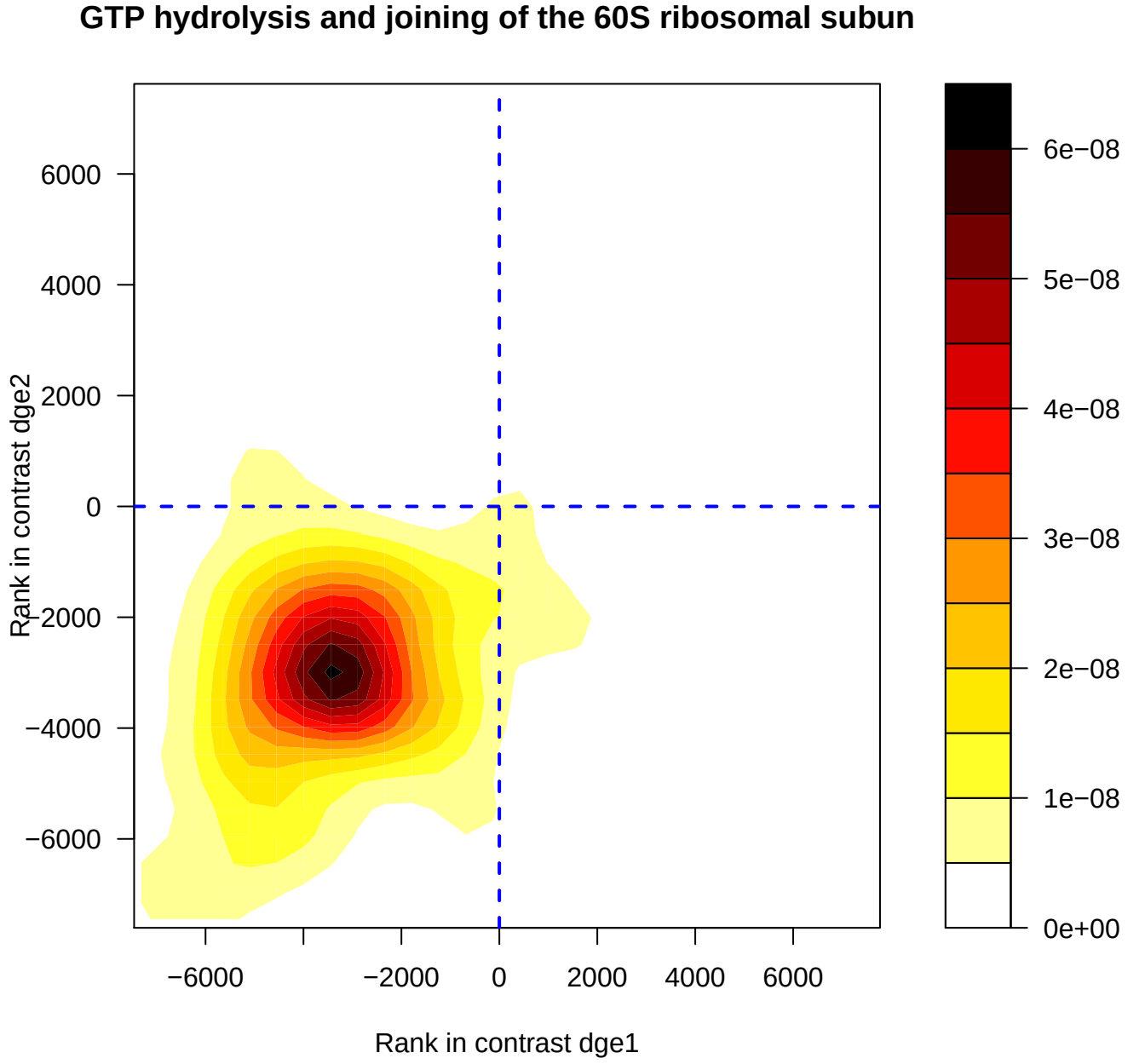

Eukaryotic Translation Initiation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

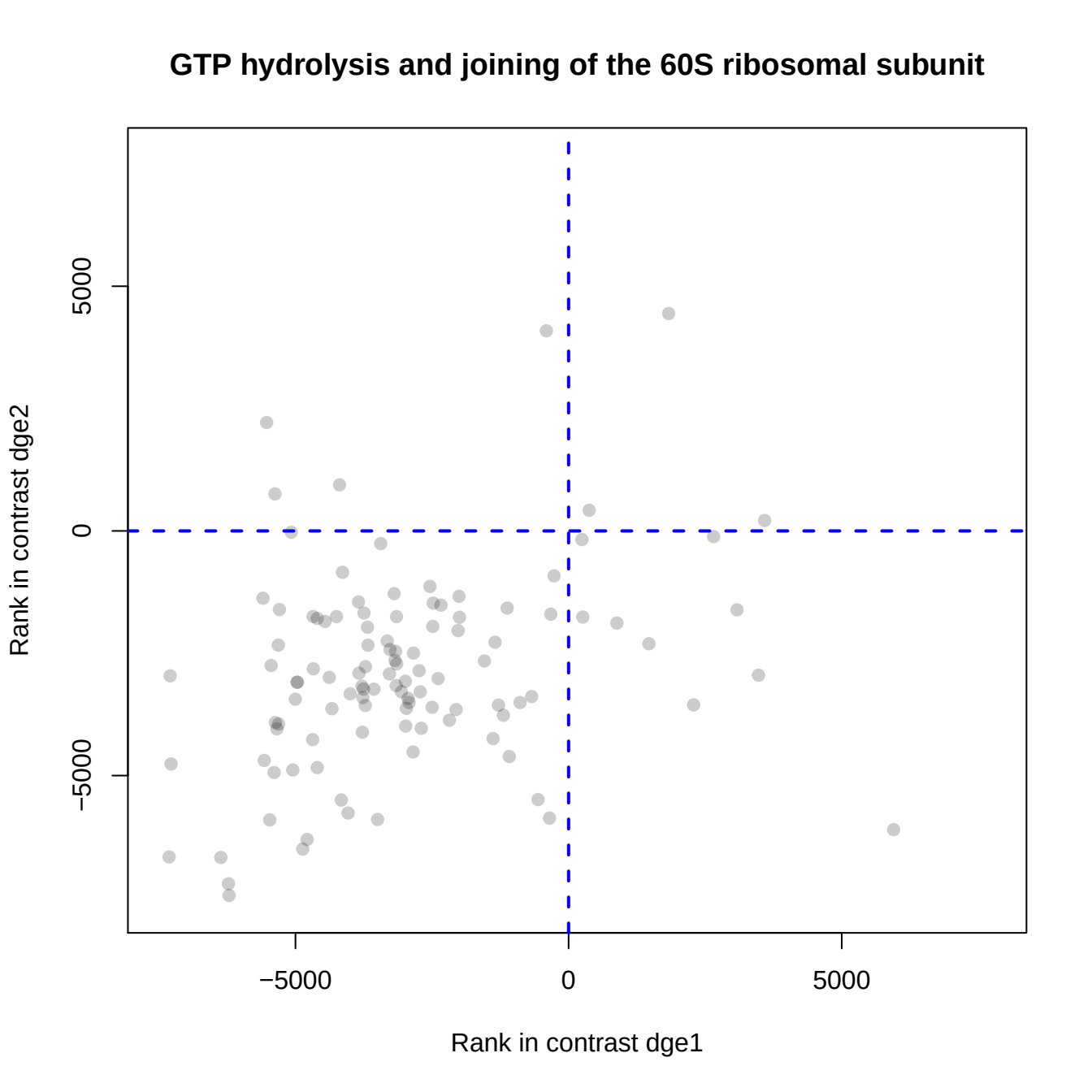

Eukaryotic Translation Initiation
5000
0
−5000
Position in rank
dge1
dge2
Var2

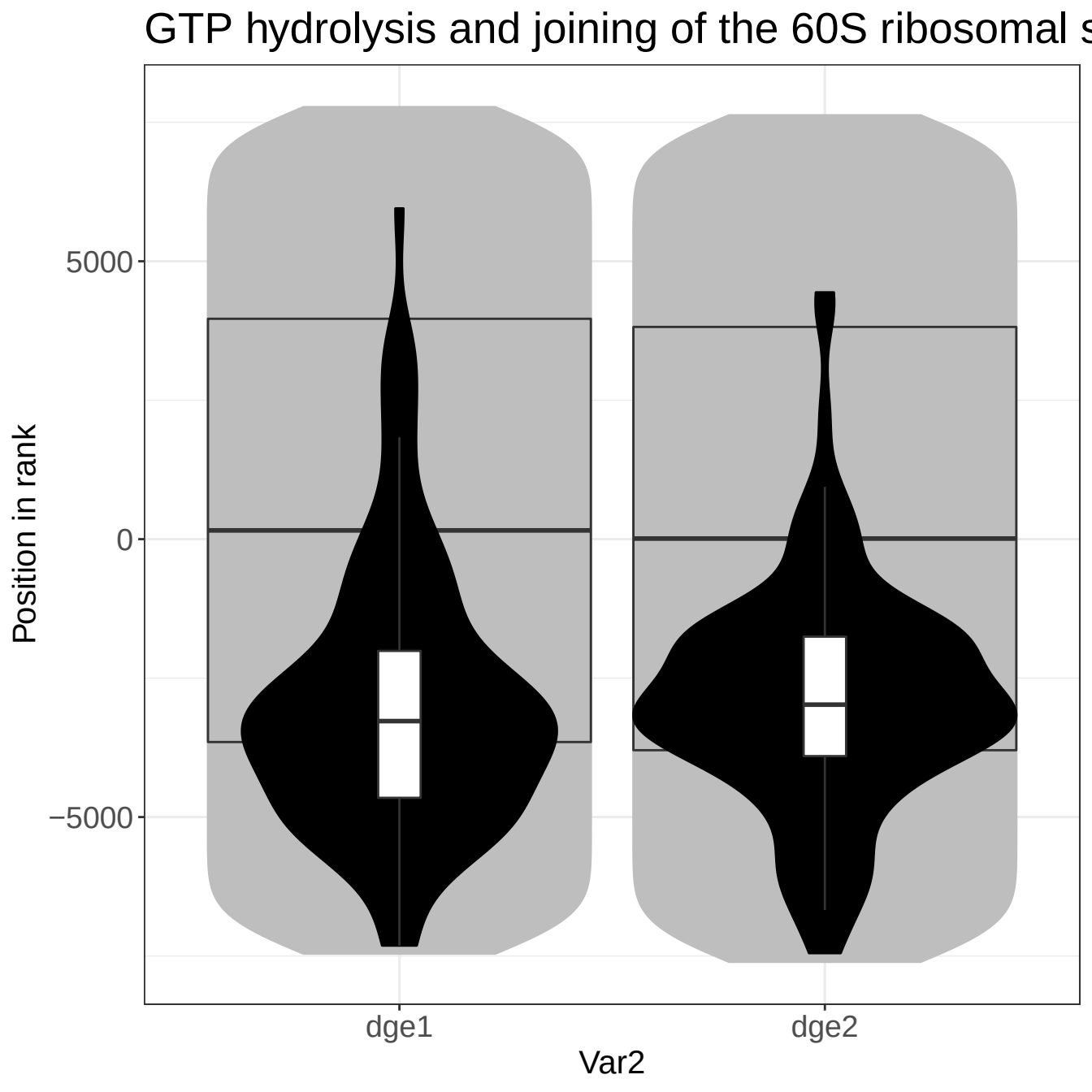

L13a−mediated translational silencing of Ceruloplasmin expr
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
7e−08
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

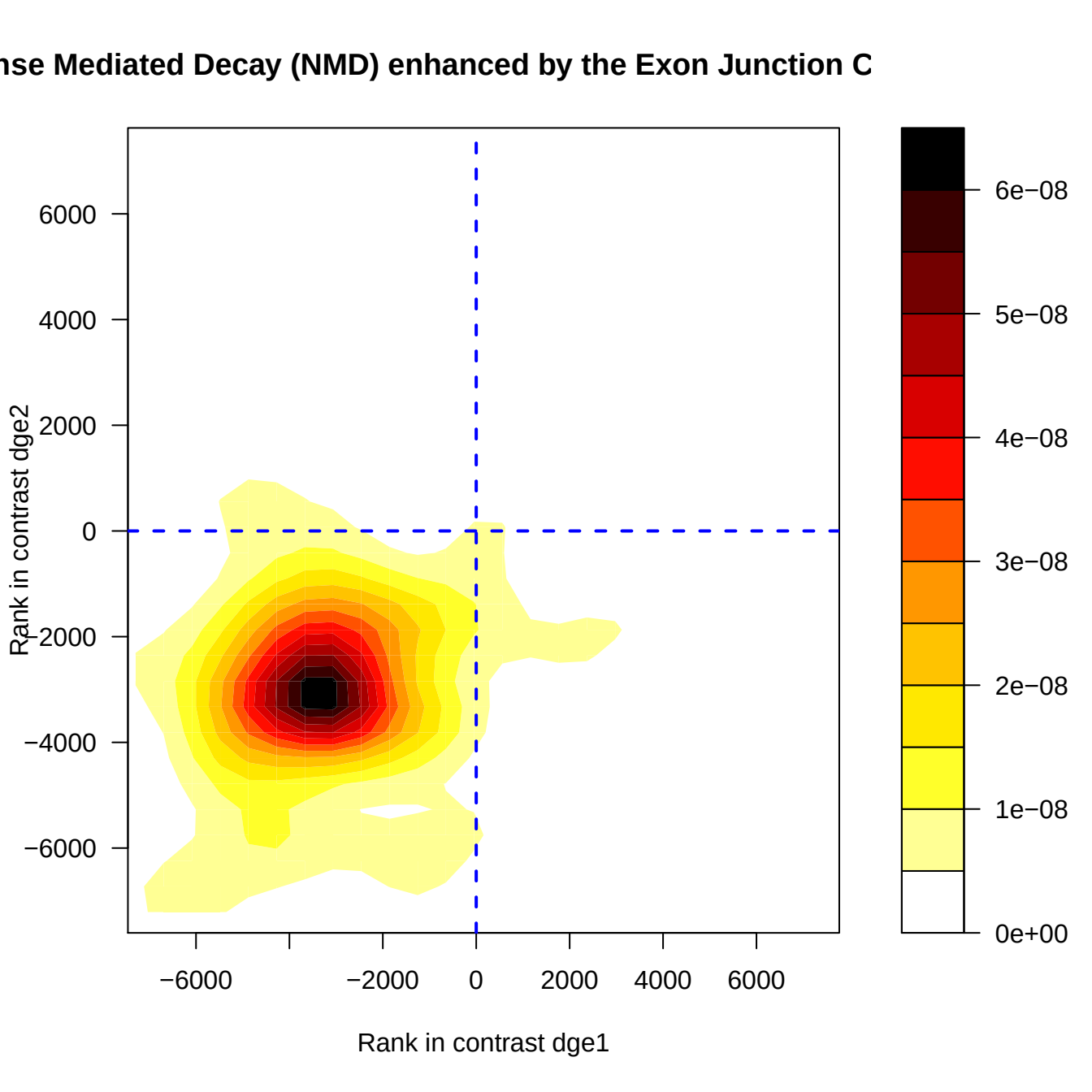

L13a−mediated translational silencing of Ceruloplasmin expression
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

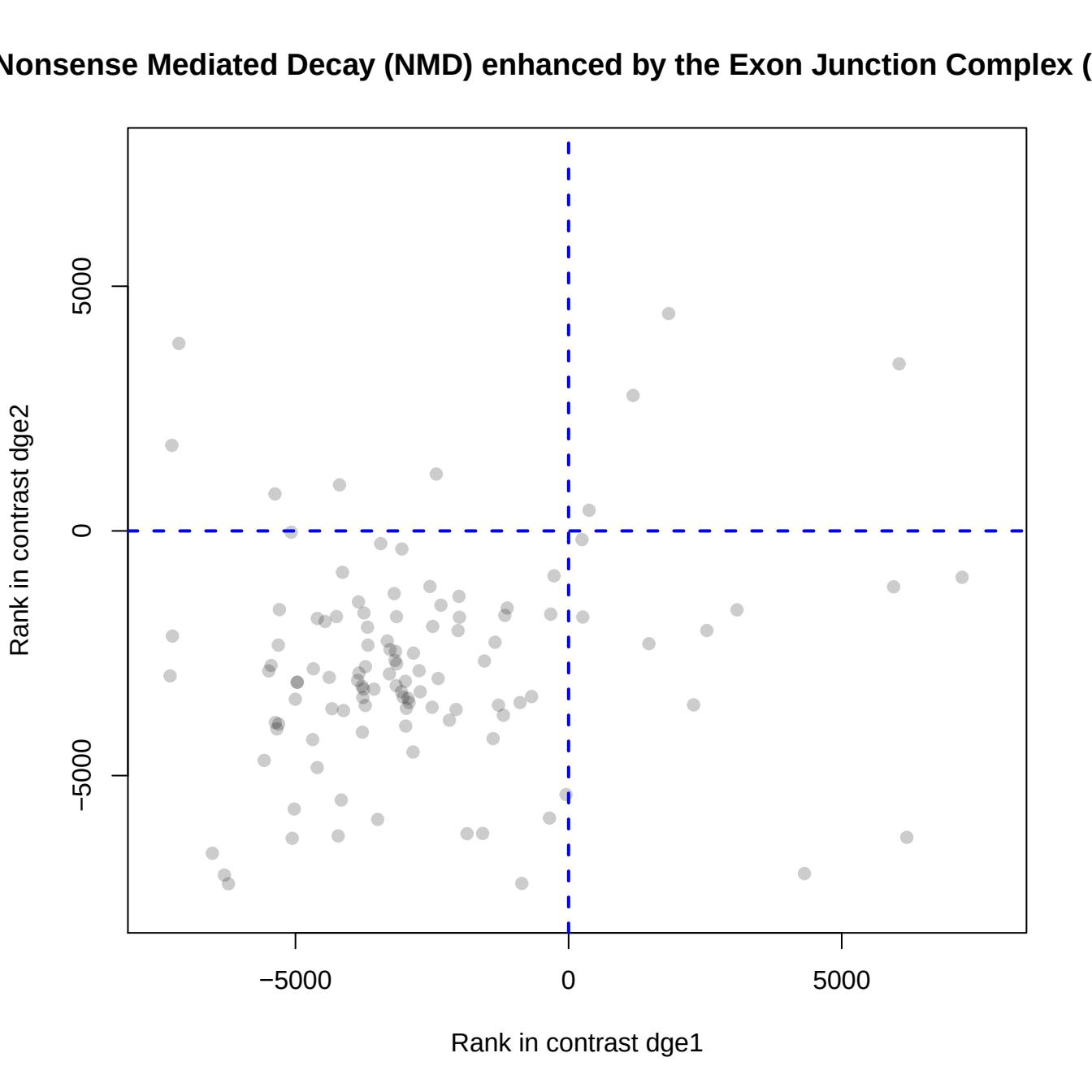

L13a−mediated translational silencing of Cerulopl
5000
0
−5000
Position in rank
dge1
dge2
Var2

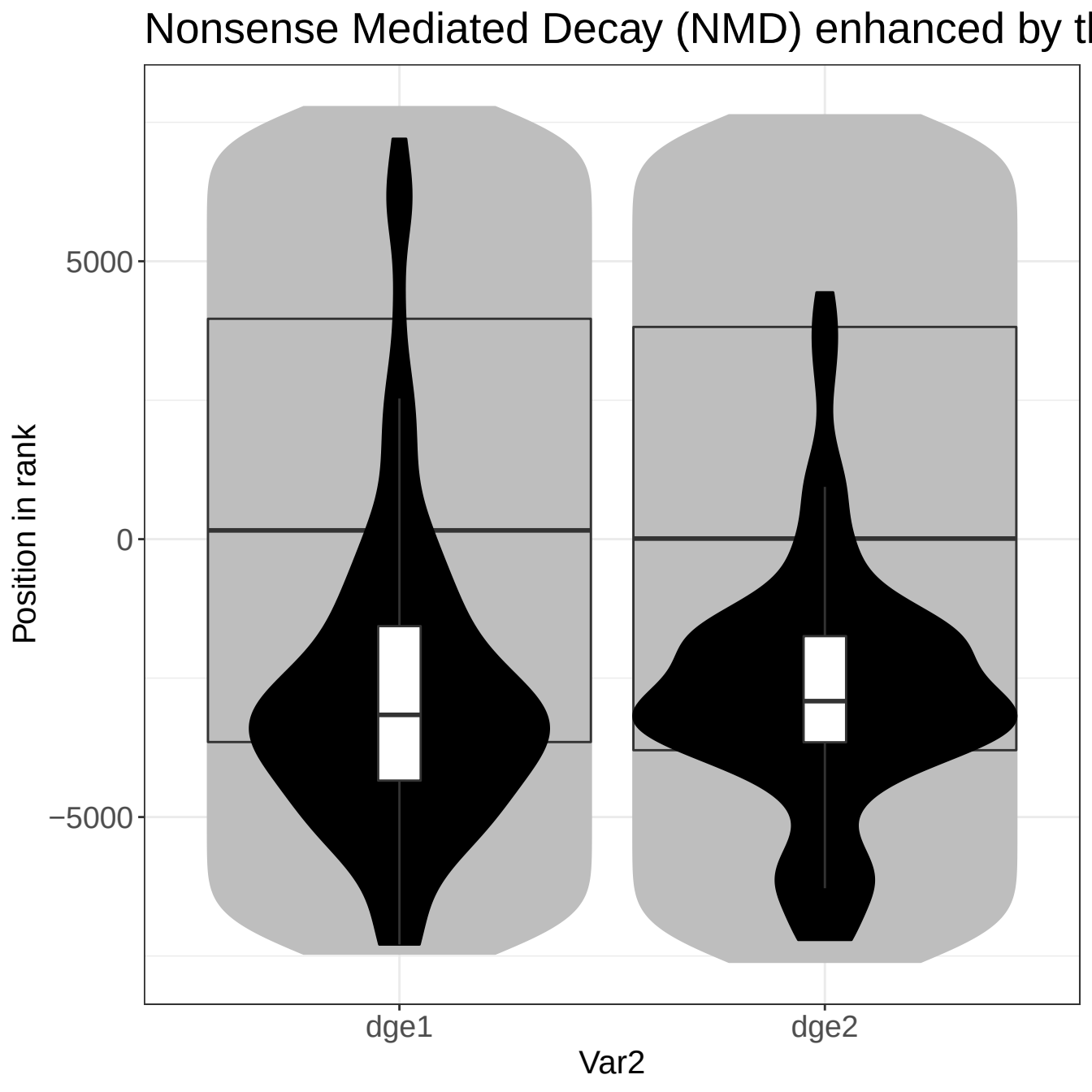

GTP hydrolysis and joining of the 60S ribosomal subun
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

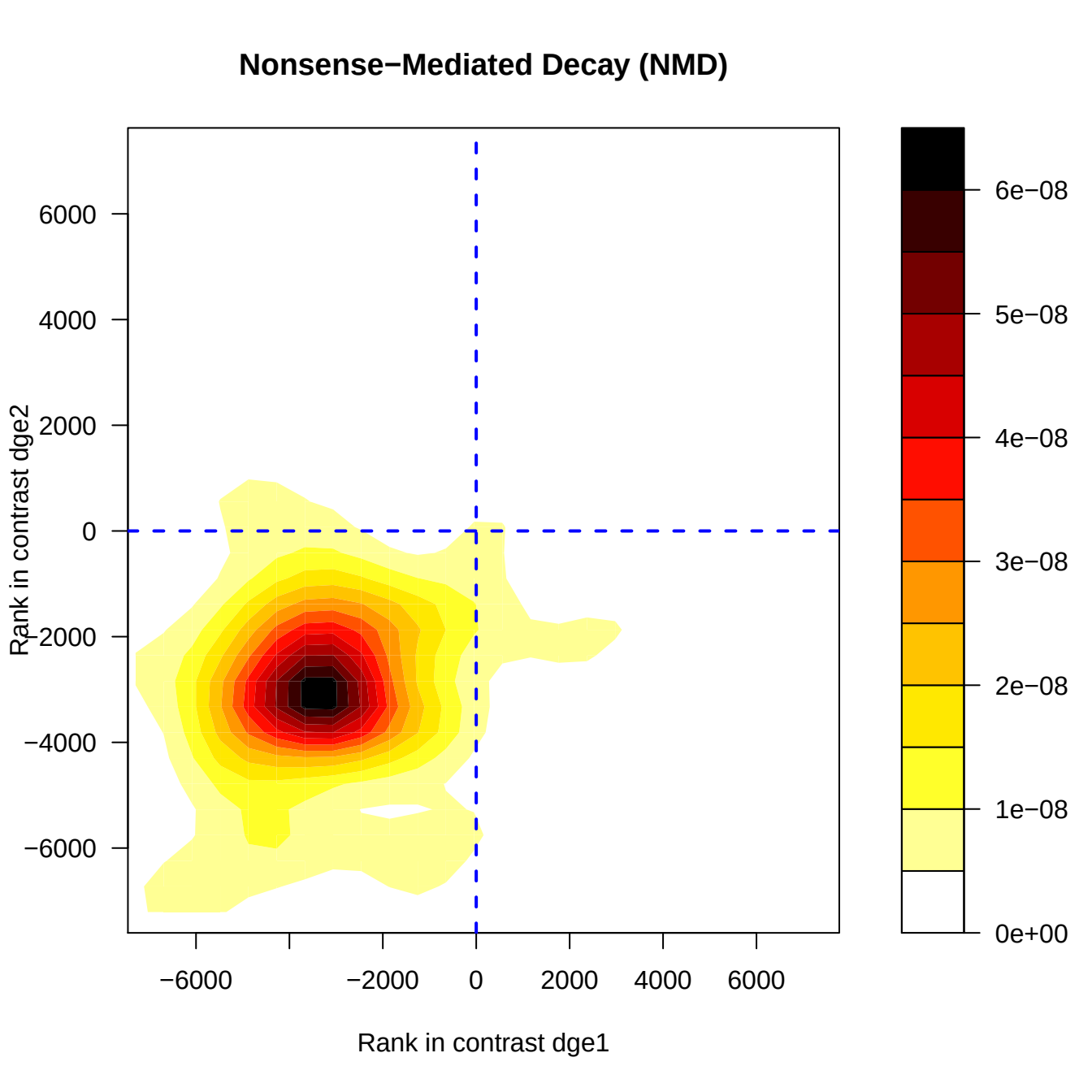

GTP hydrolysis and joining of the 60S ribosomal subunit
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

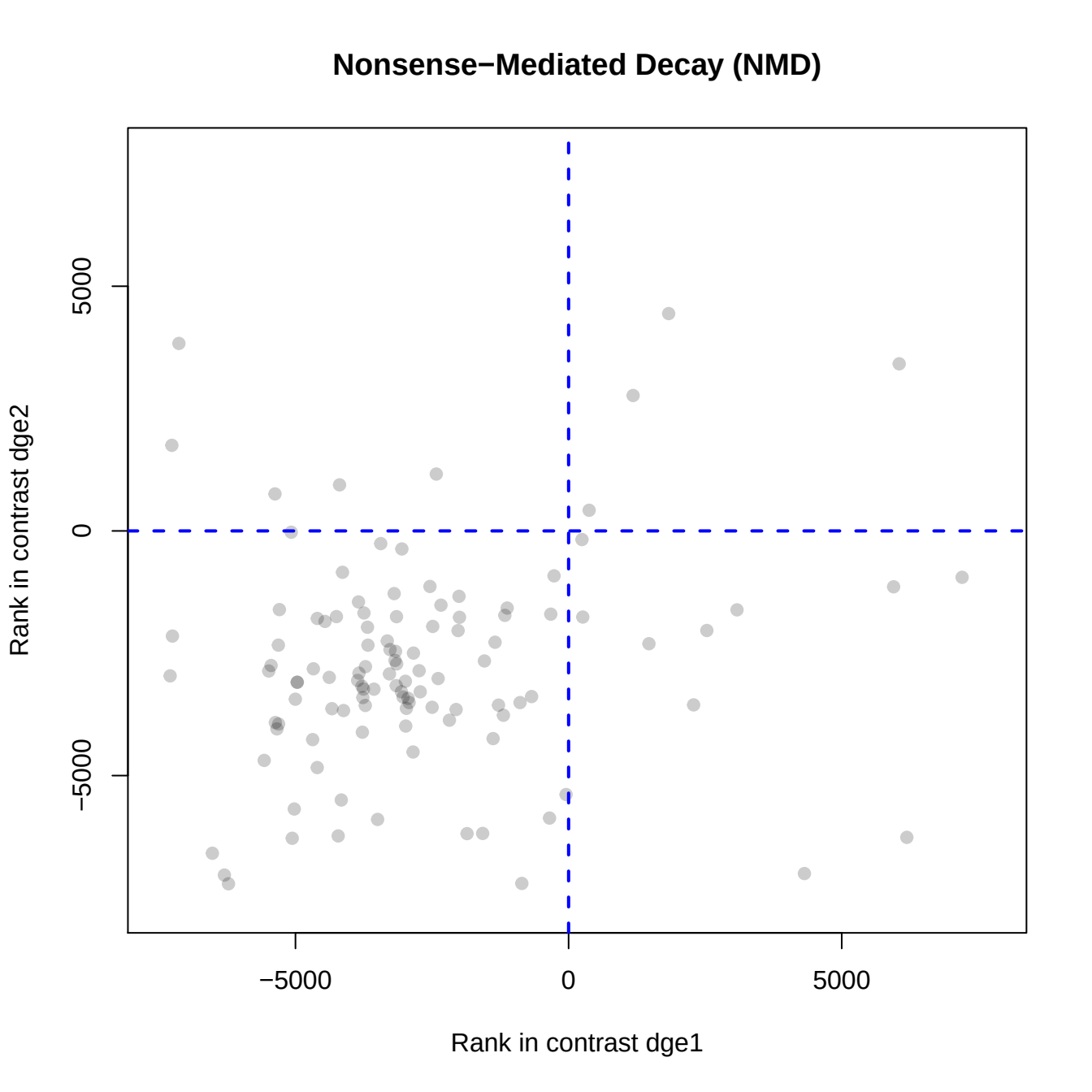

GTP hydrolysis and joining of the 60S ribosomal s
5000
0
−5000
Position in rank
dge1
dge2
Var2

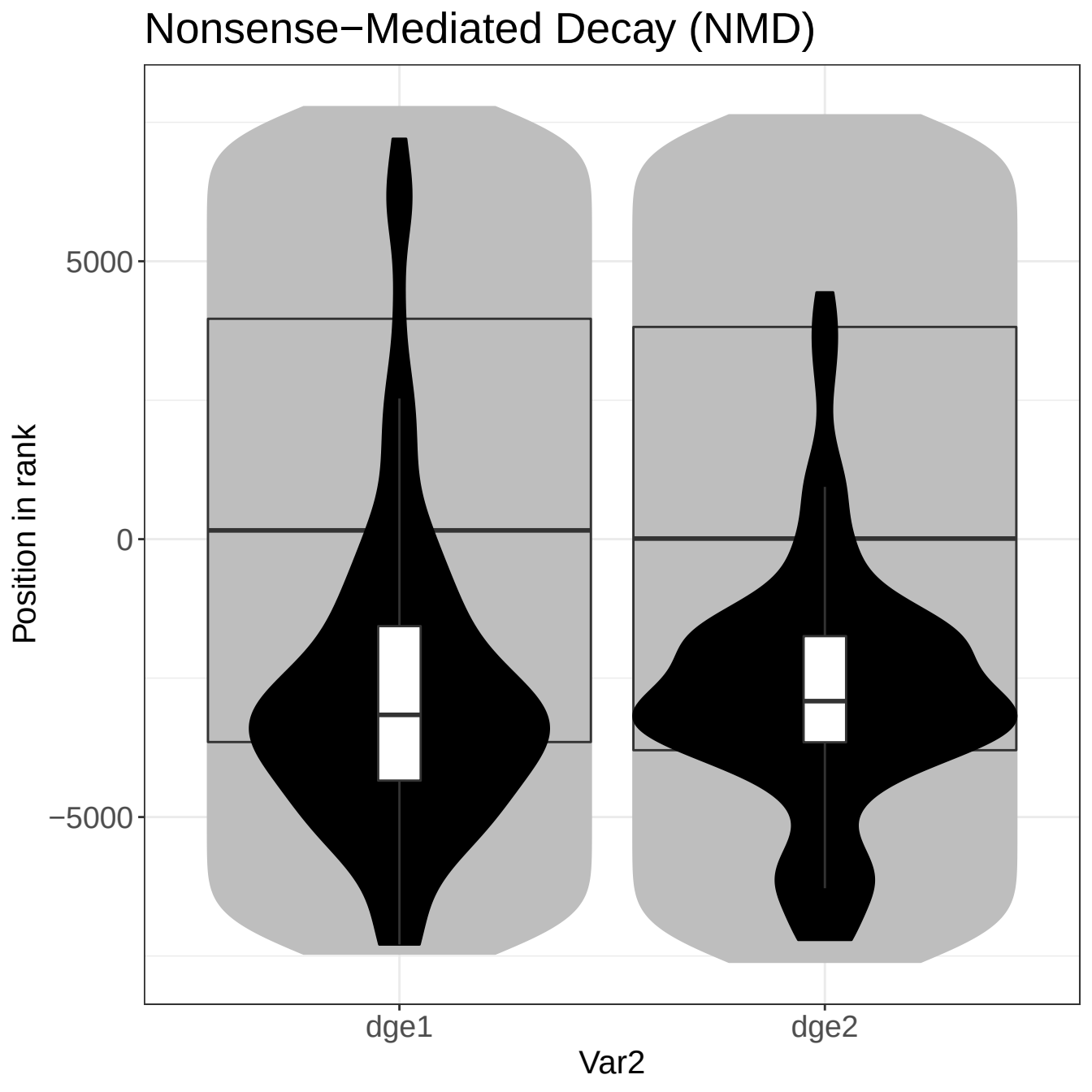

nse Mediated Decay (NMD) enhanced by the Exon Junction C
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

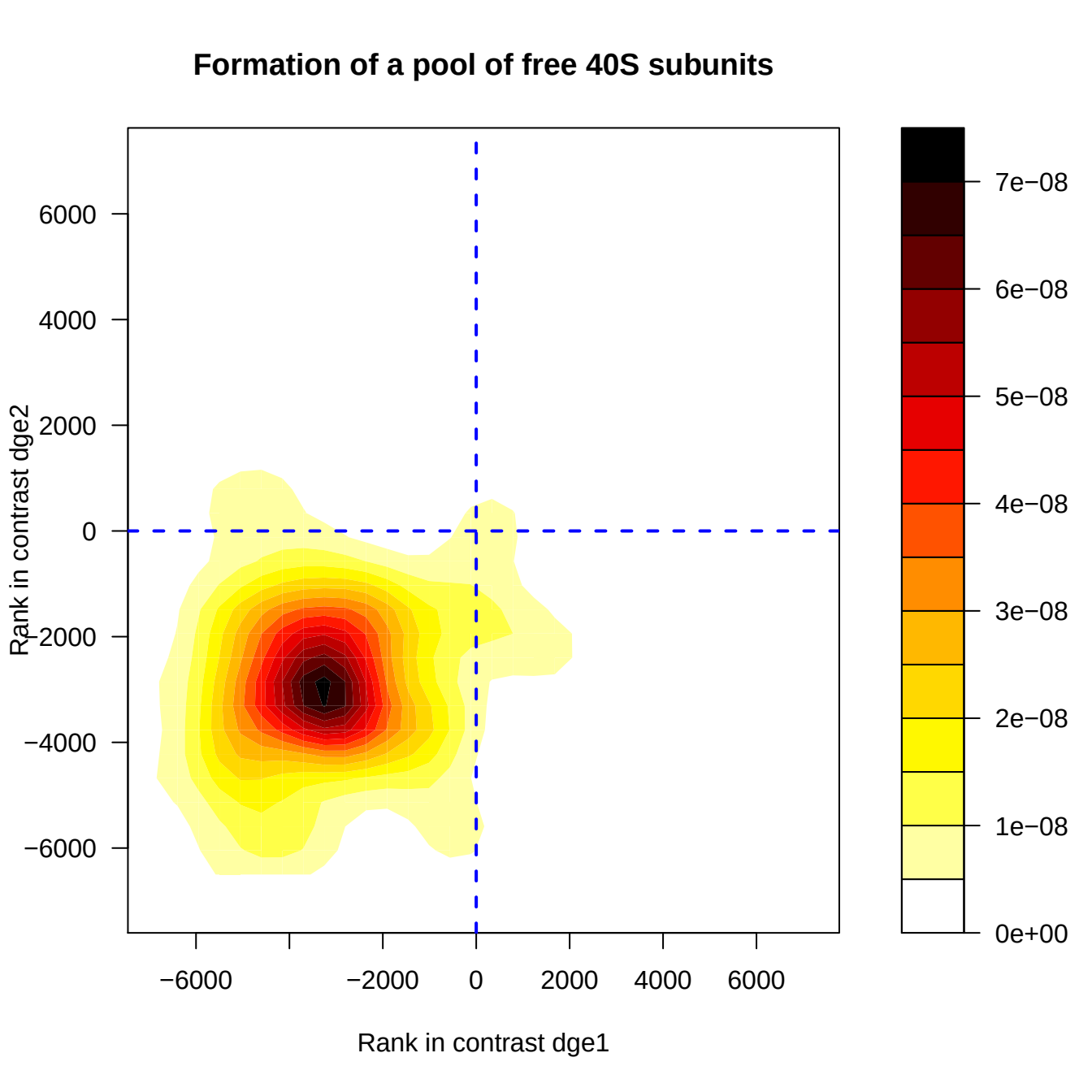

Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

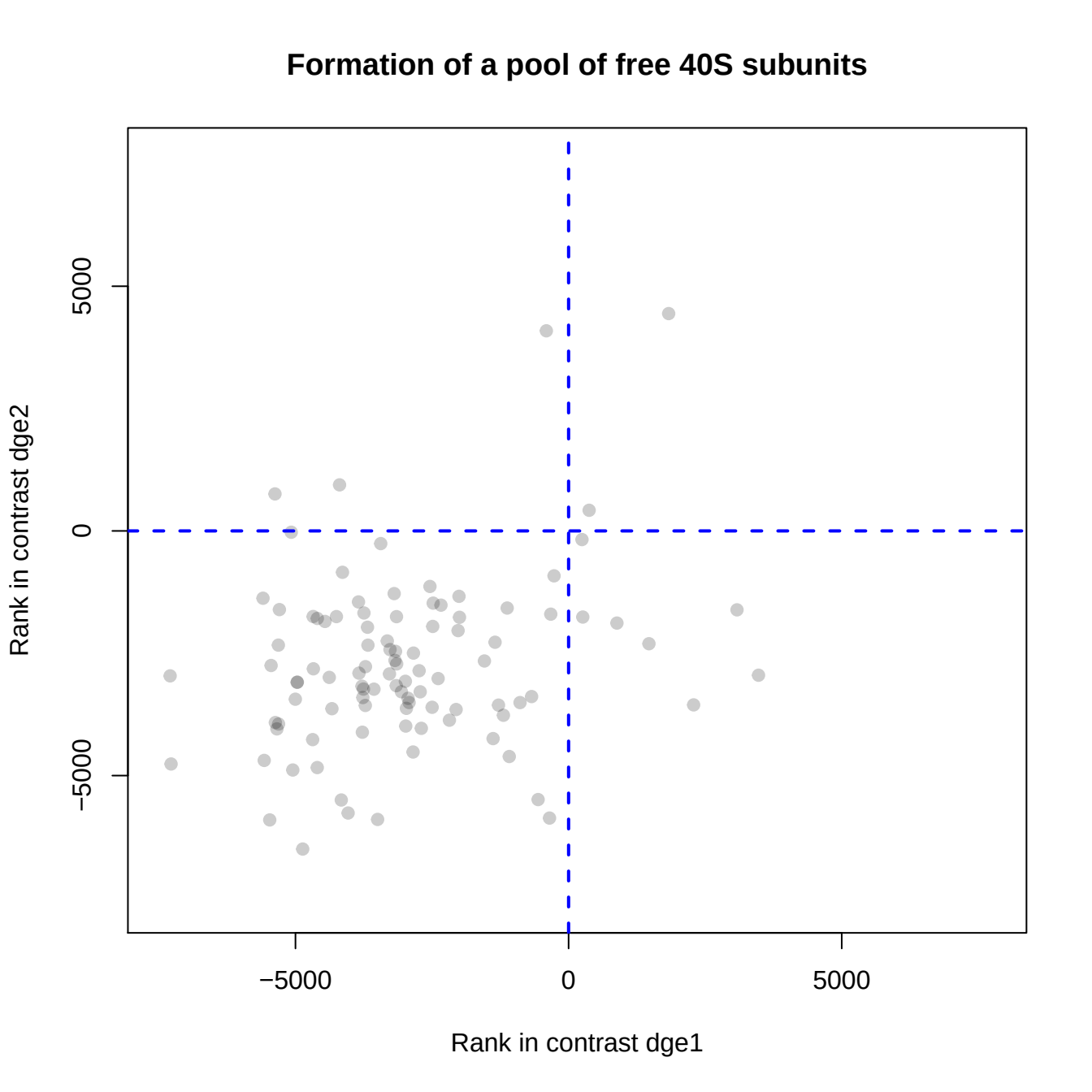

Nonsense Mediated Decay (NMD) enhanced by t
5000
0
−5000
Position in rank
dge1
dge2
Var2

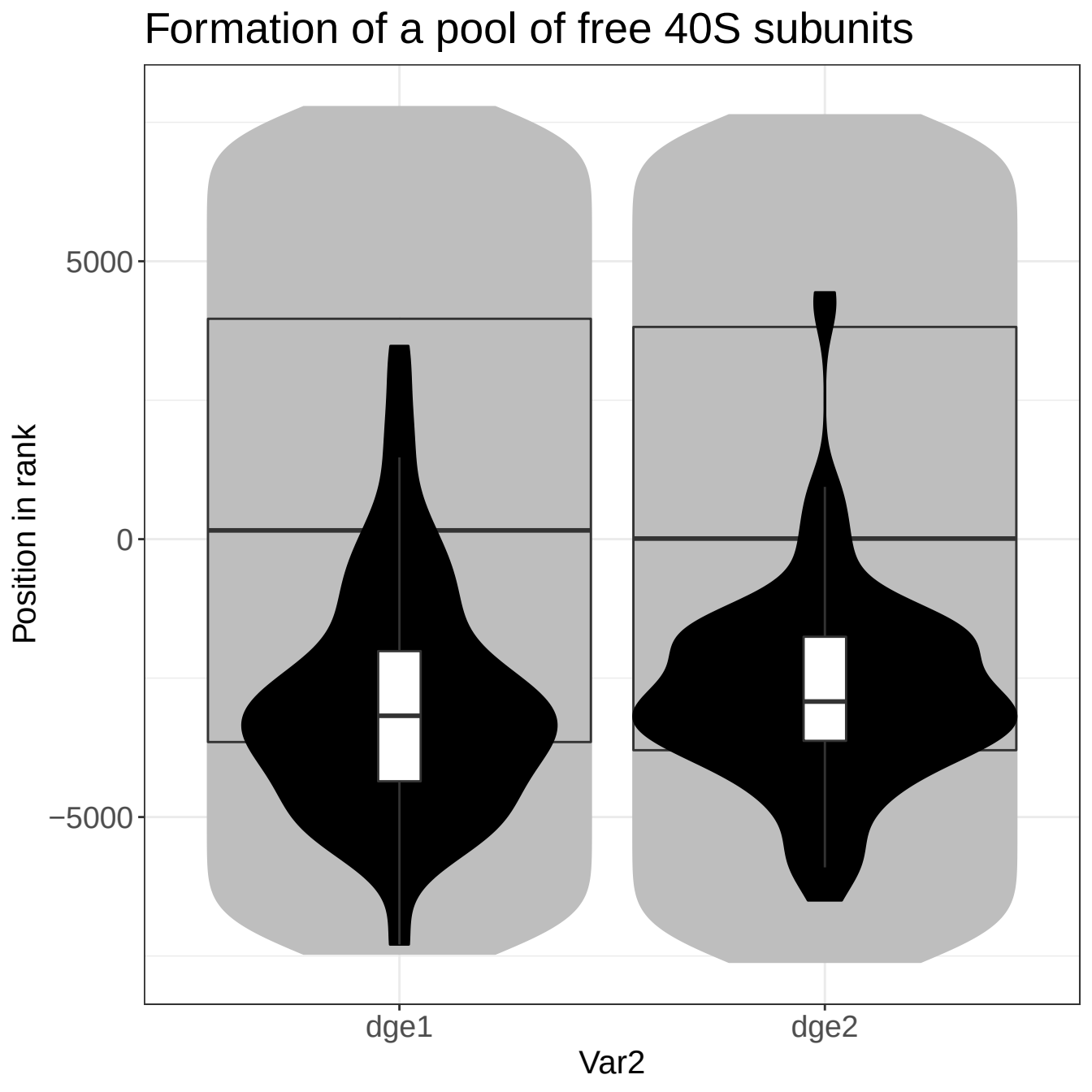

Nonsense−Mediated Decay (NMD)
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

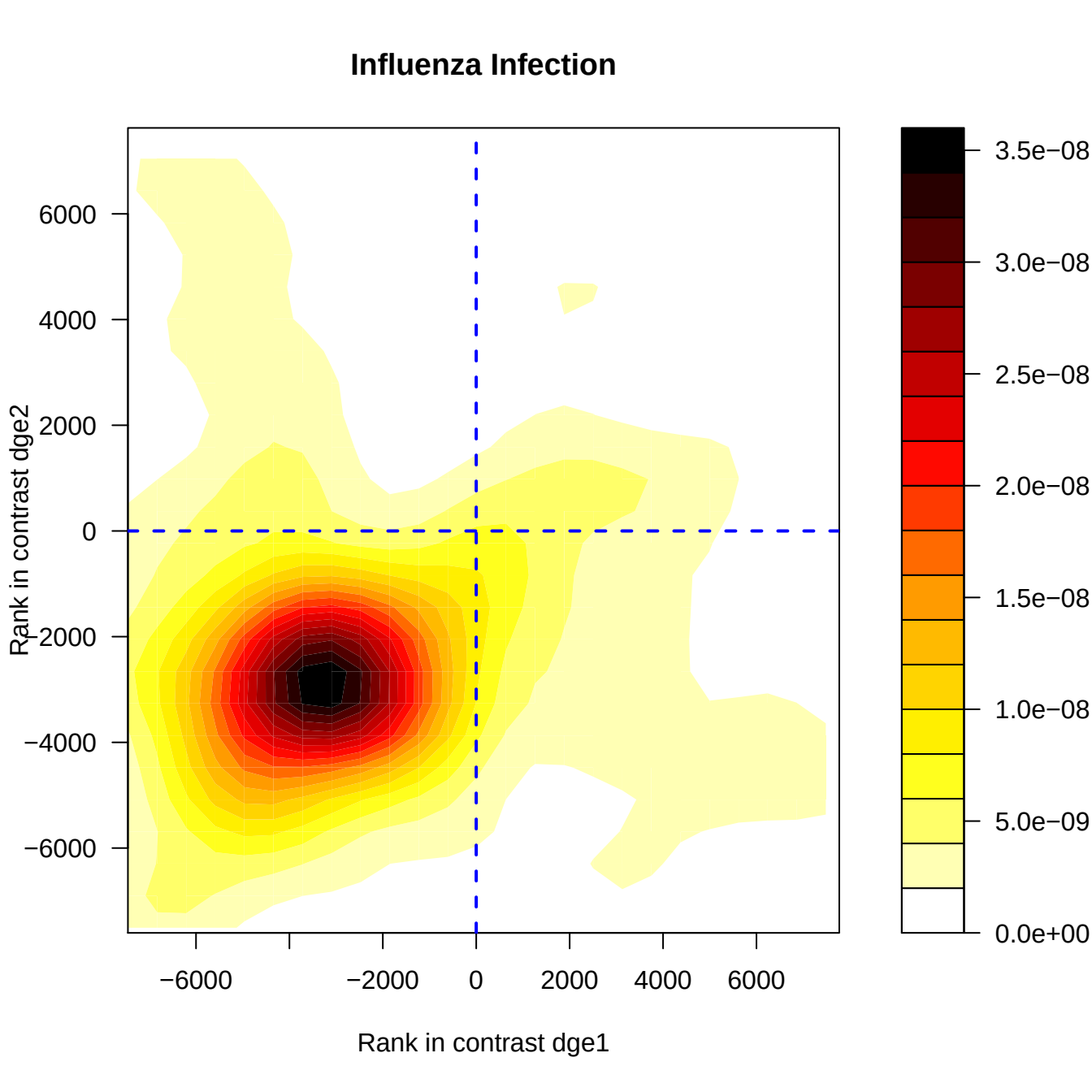

Nonsense−Mediated Decay (NMD)
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

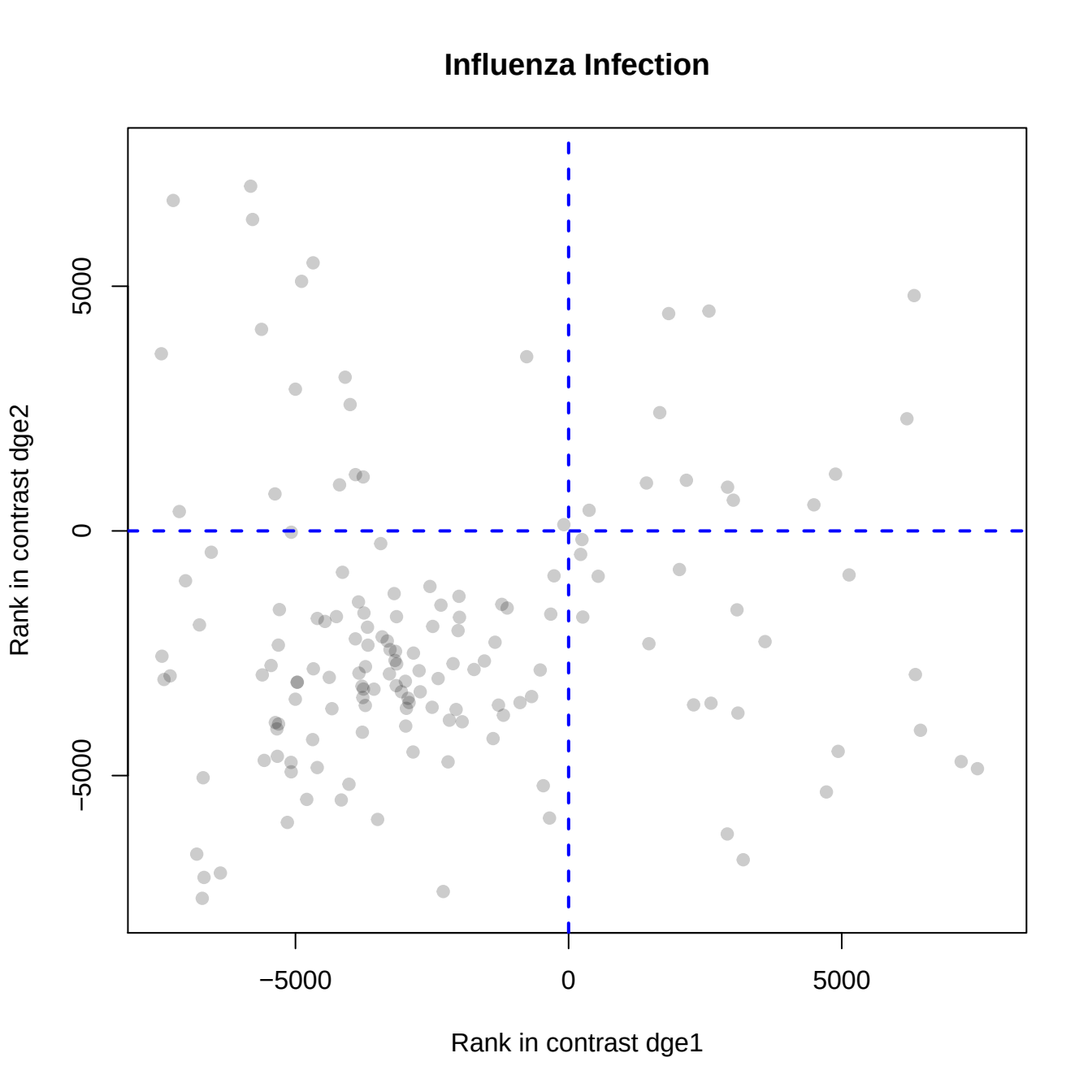

Nonsense−Mediated Decay (NMD)
Position in rank
5000
0
−5000
dge1
dge2
Var2

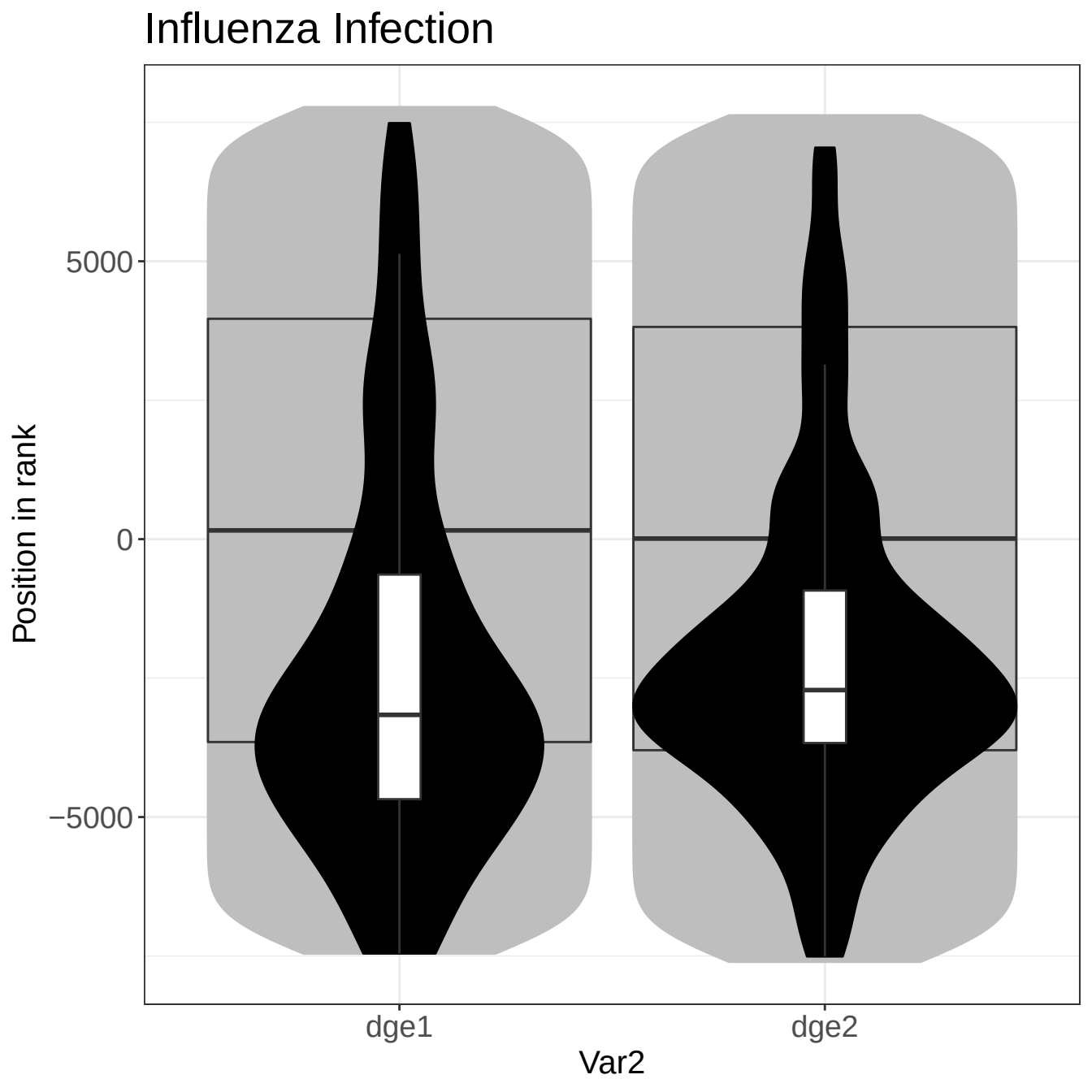

Formation of a pool of free 40S subunits
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
7e−08
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

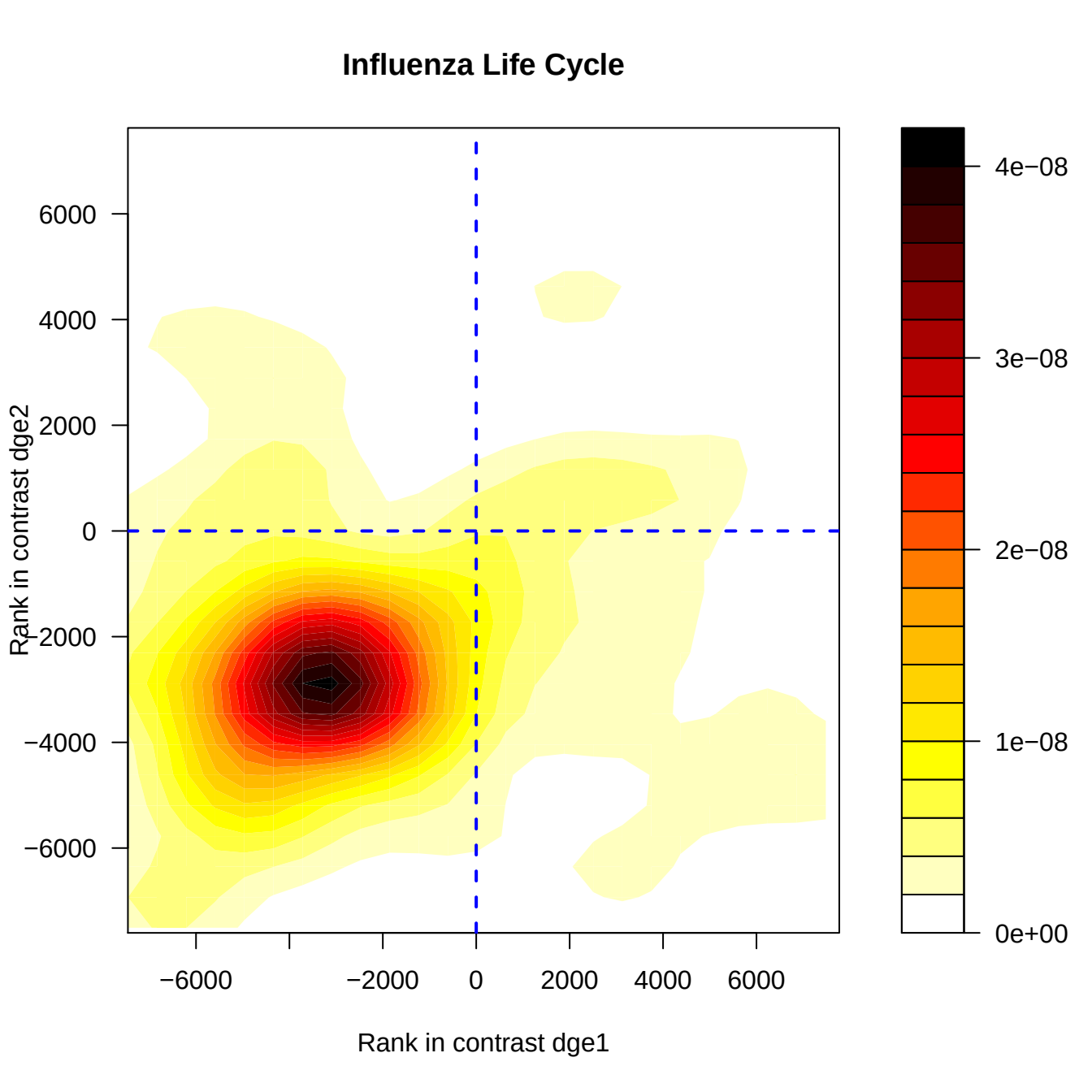

Formation of a pool of free 40S subunits
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

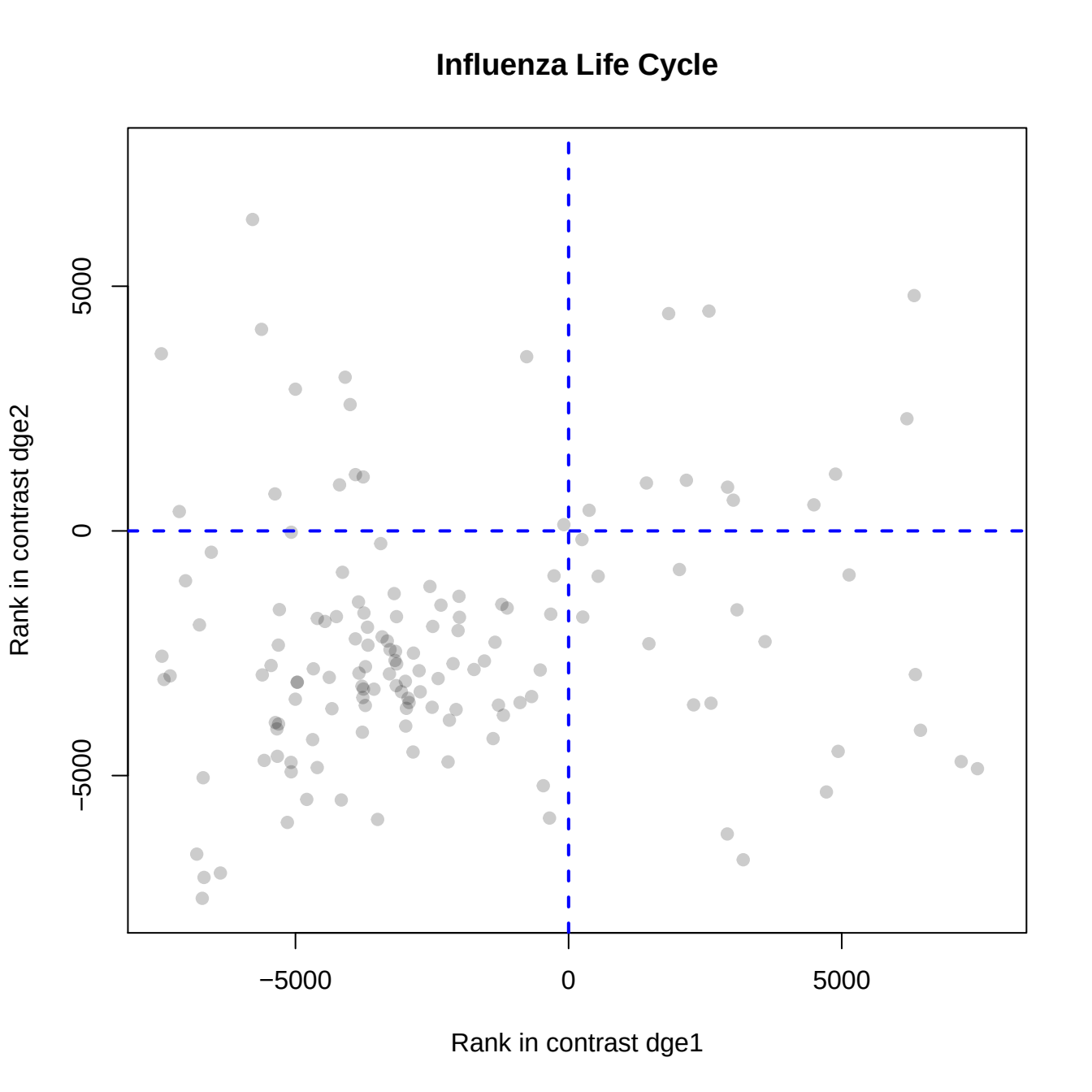

Formation of a pool of free 40S subunits
5000
0
−5000
Position in rank
dge1
dge2
Var2

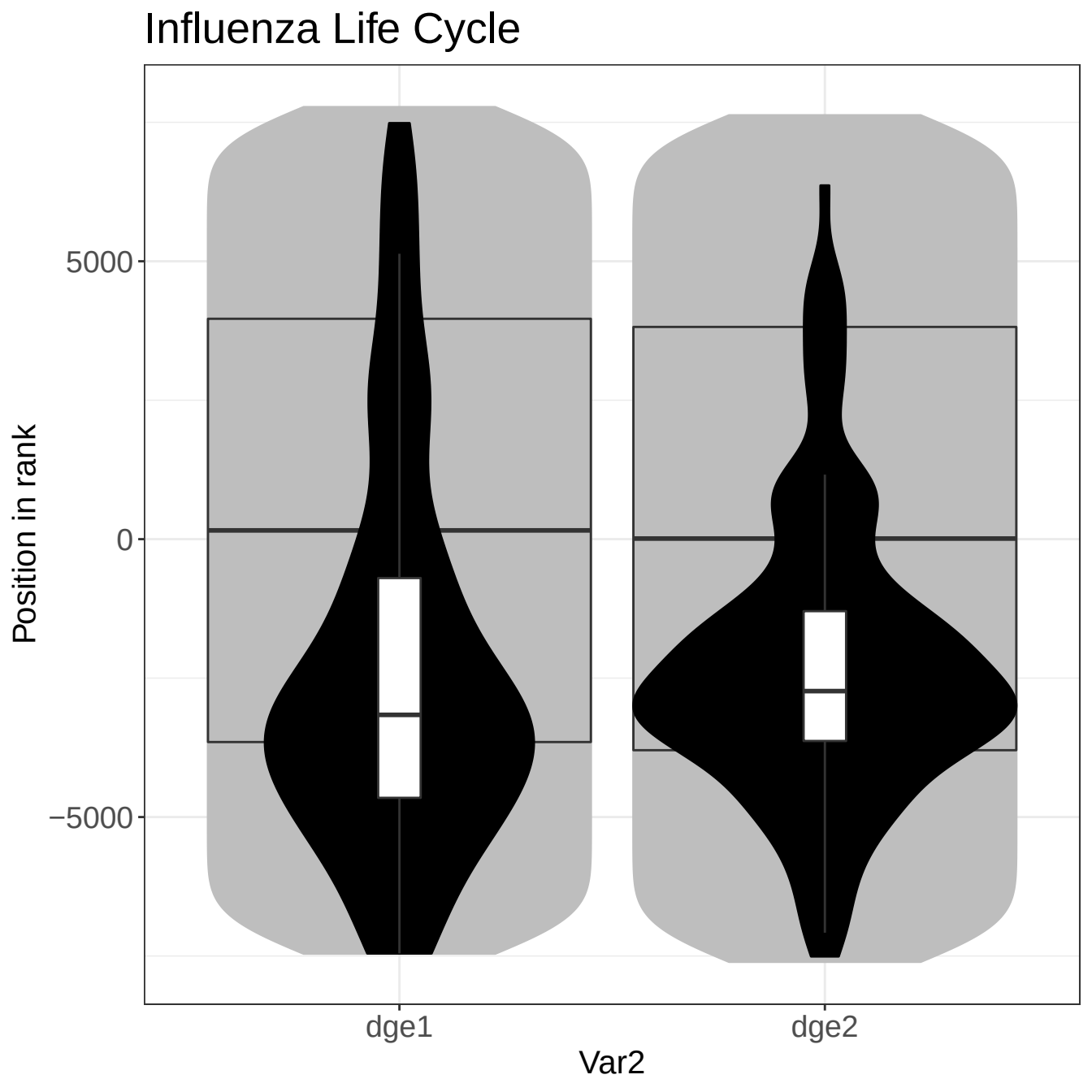

Influenza Infection
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
3.5e−08
3.0e−08
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

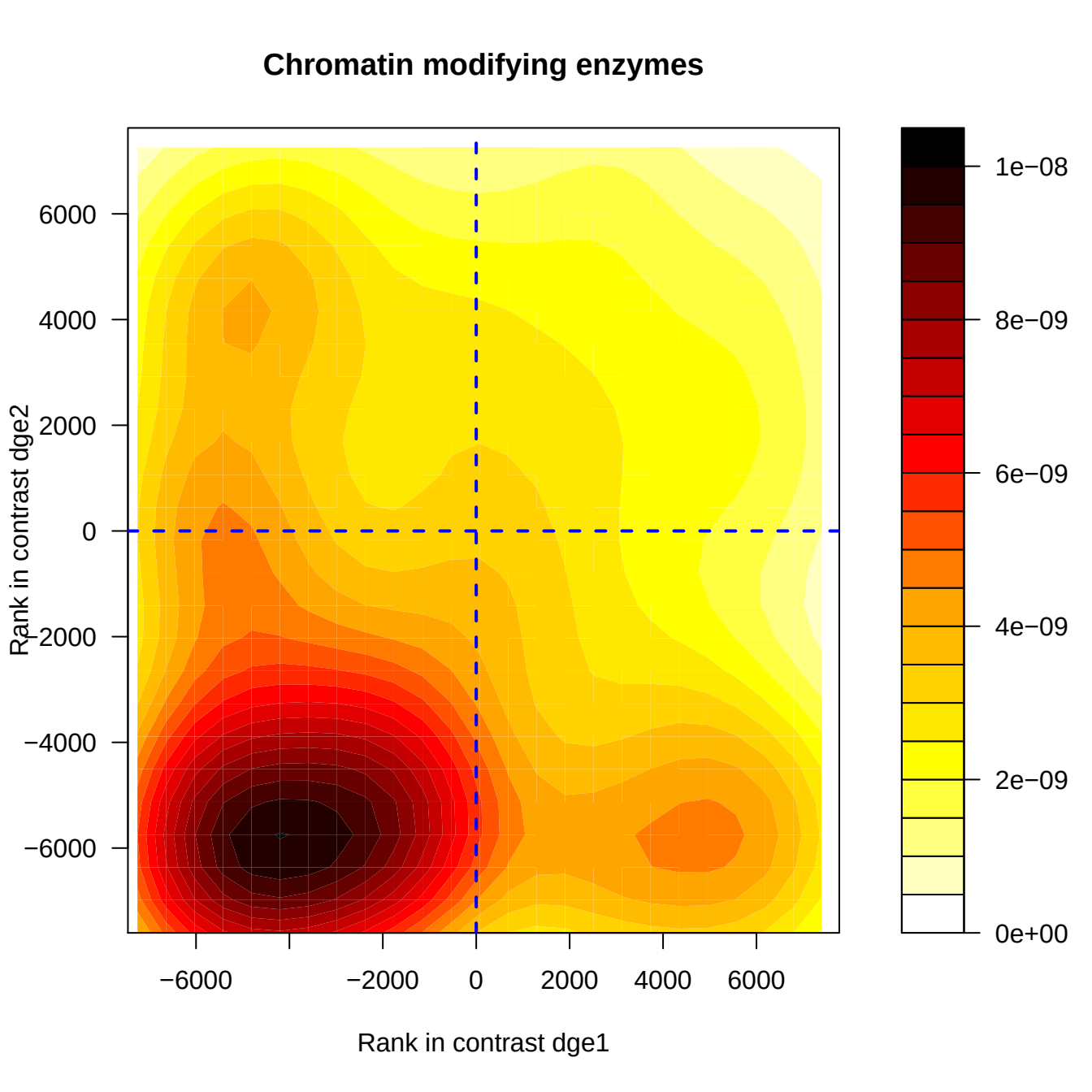

Influenza Infection
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

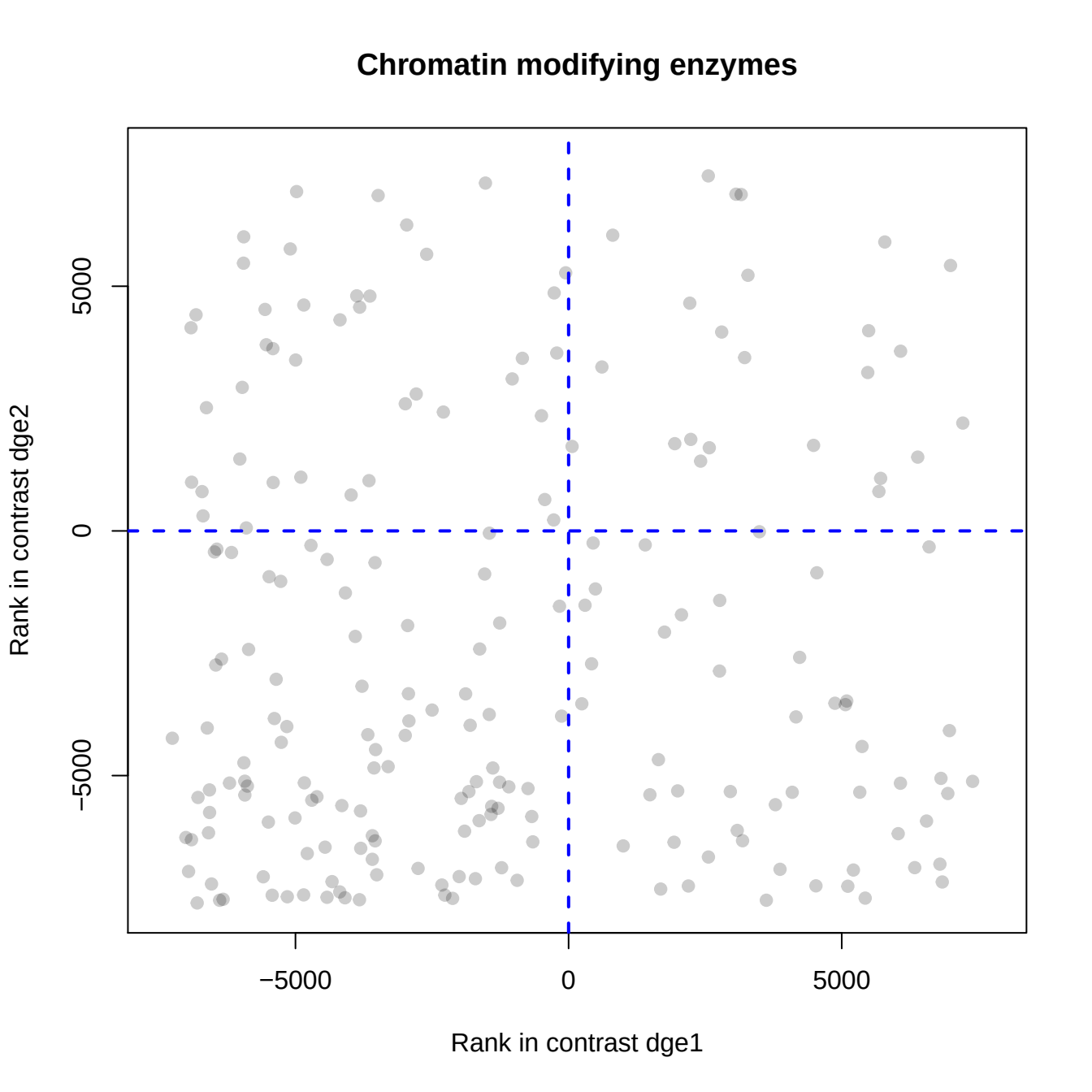

Influenza Infection
5000
0
−5000
Position in rank
dge1
dge2
Var2

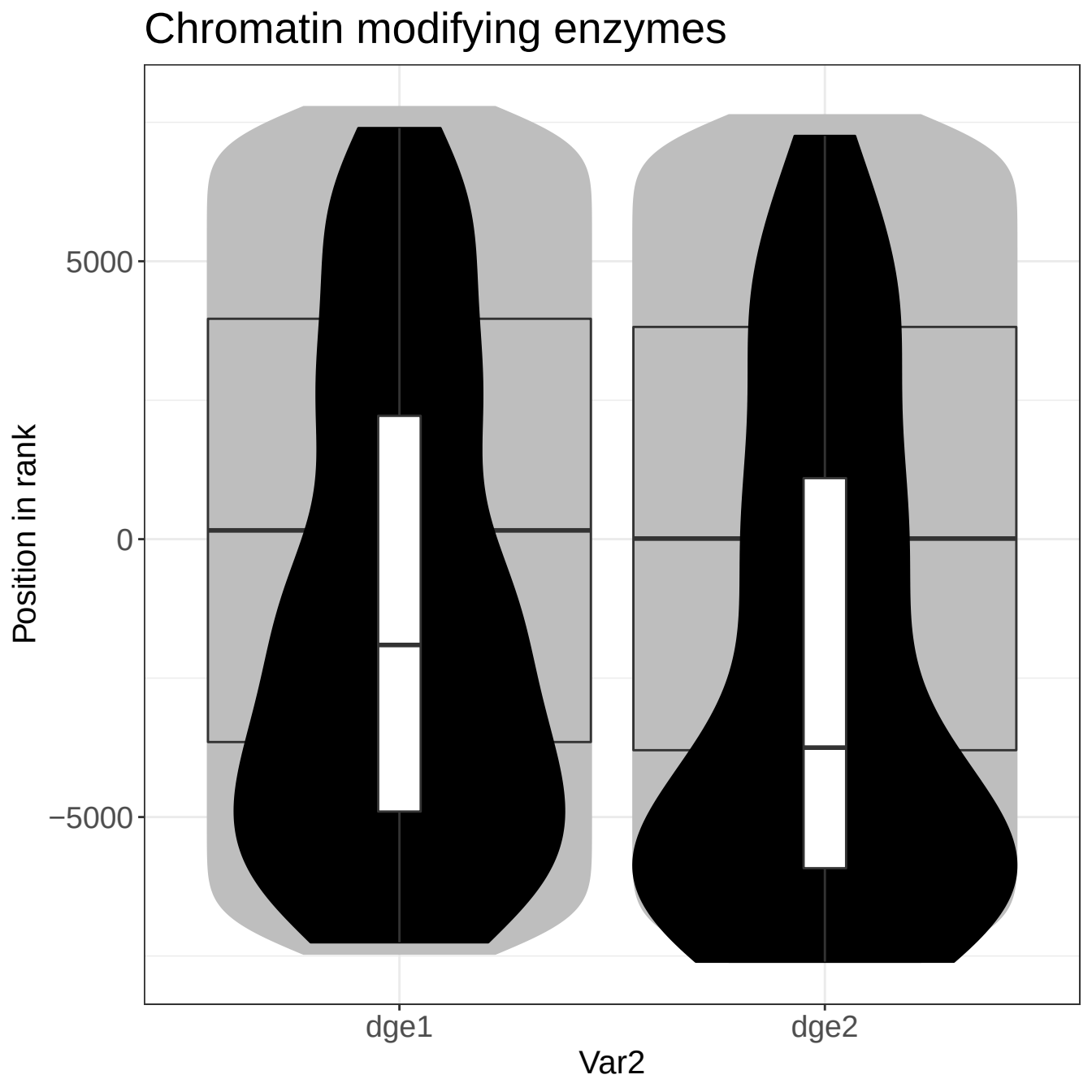

Influenza Life Cycle
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
4e−08
3e−08
2e−08
1e−08
0e+00

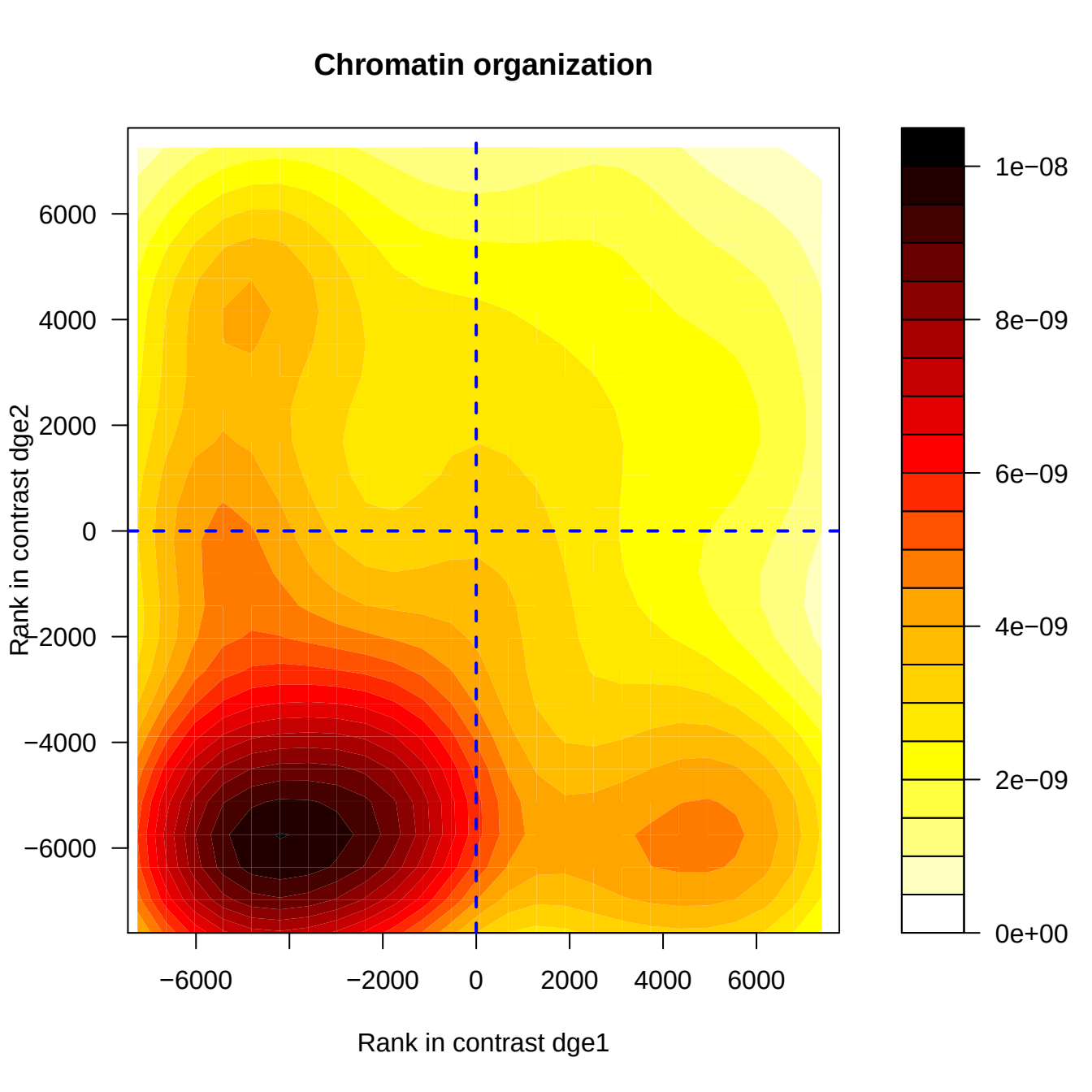

Influenza Life Cycle
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

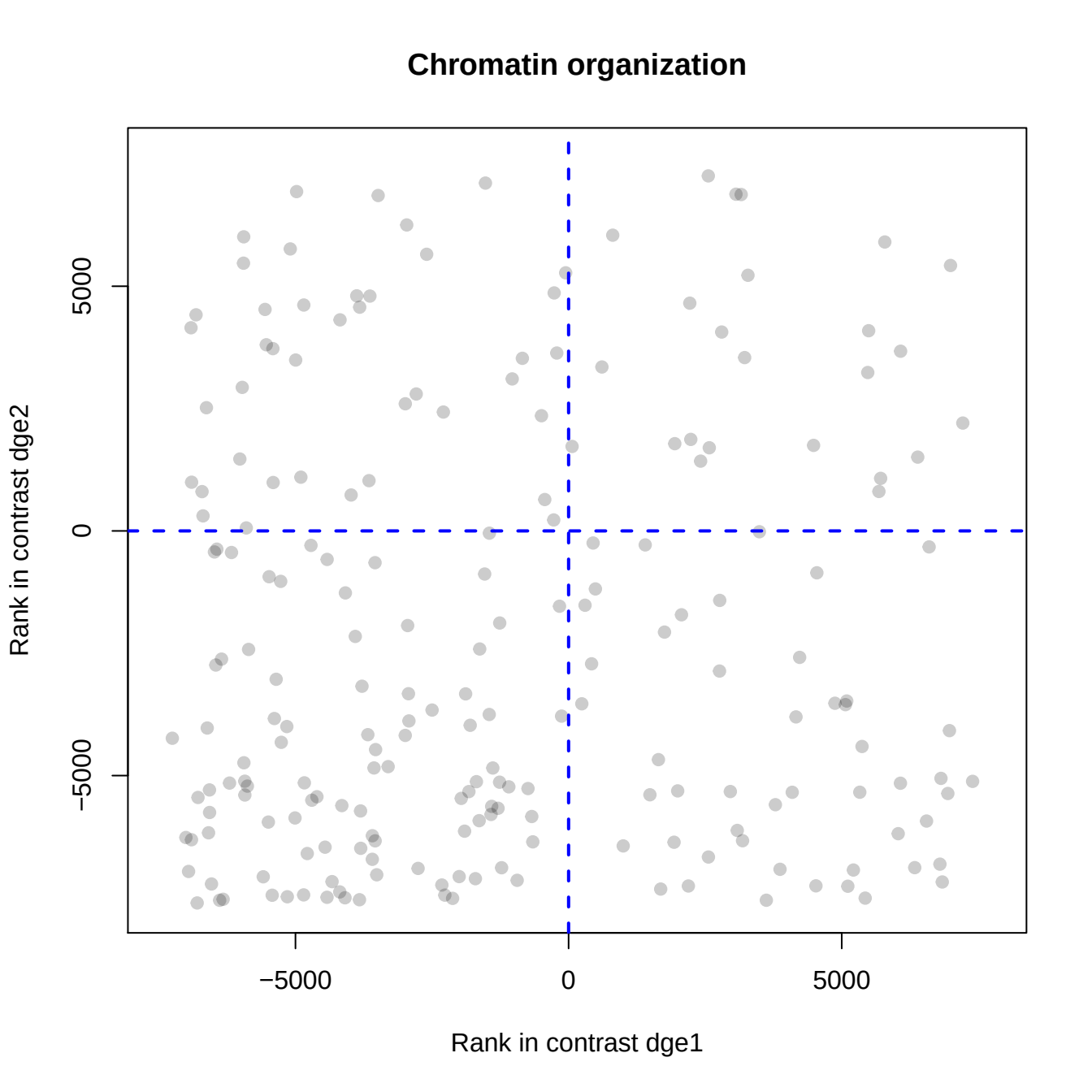

Influenza Life Cycle
5000
0
−5000
Position in rank
dge1
dge2
Var2

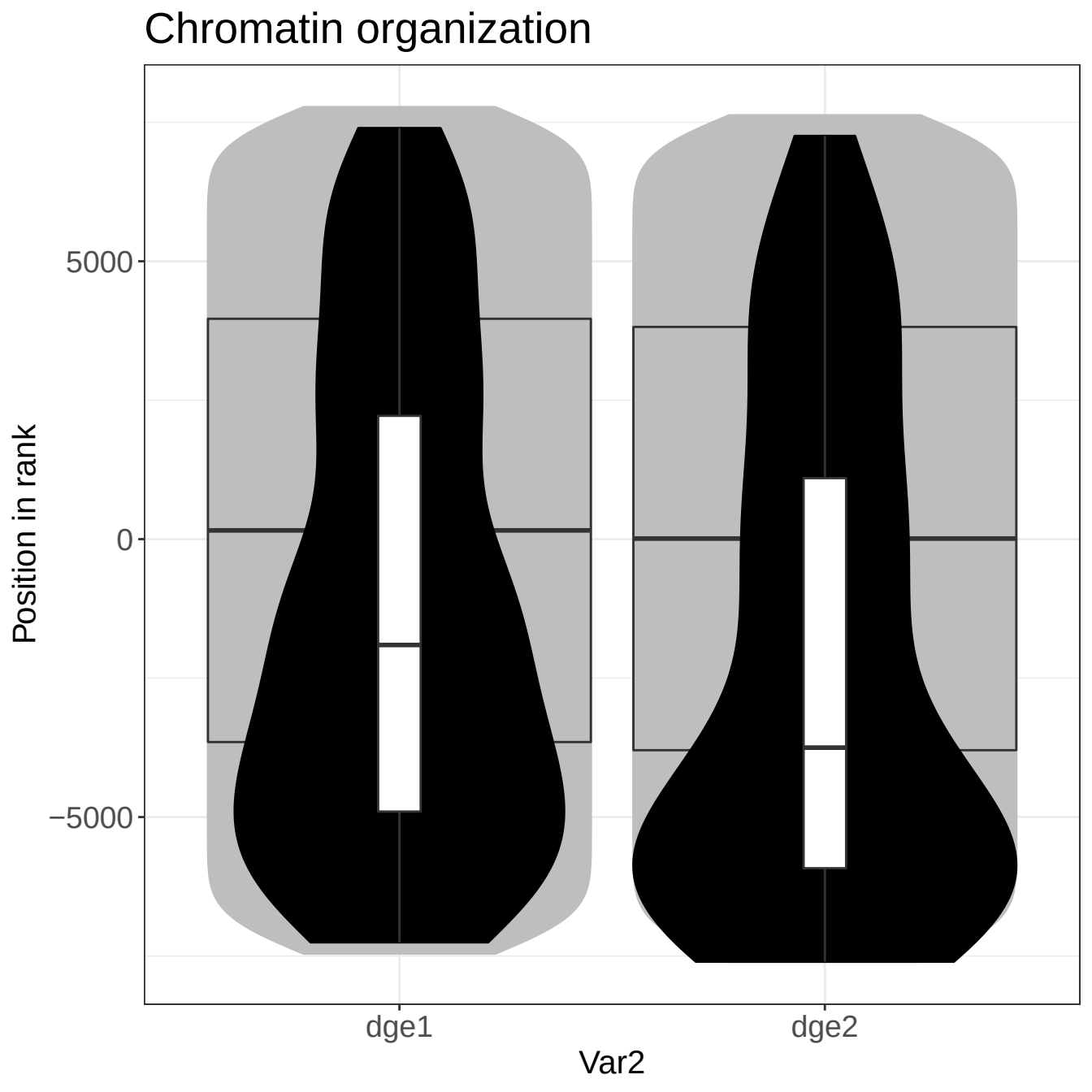

Chromatin modifying enzymes
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1e−08
8e−09
6e−09
4e−09
2e−09
0e+00

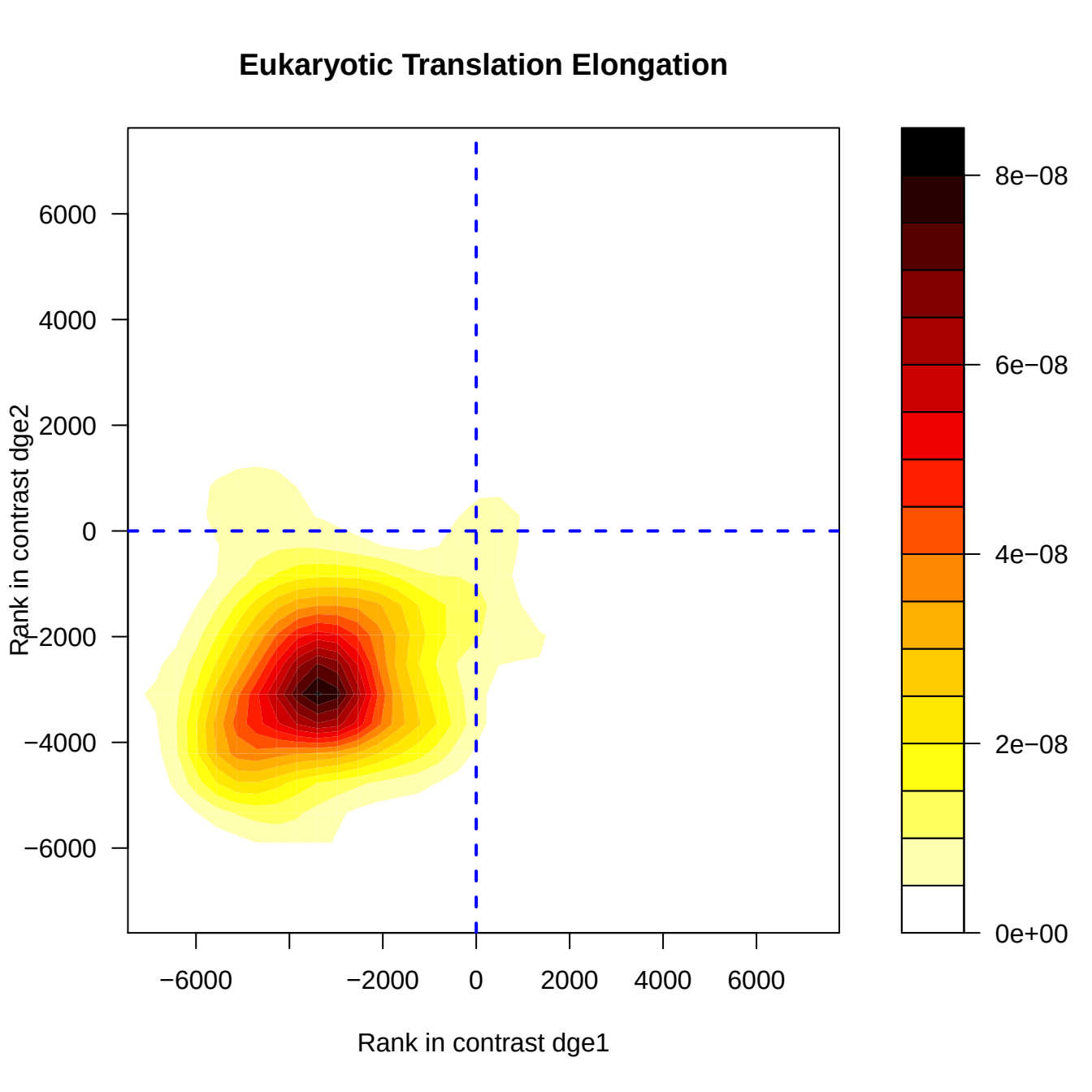

Chromatin modifying enzymes
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

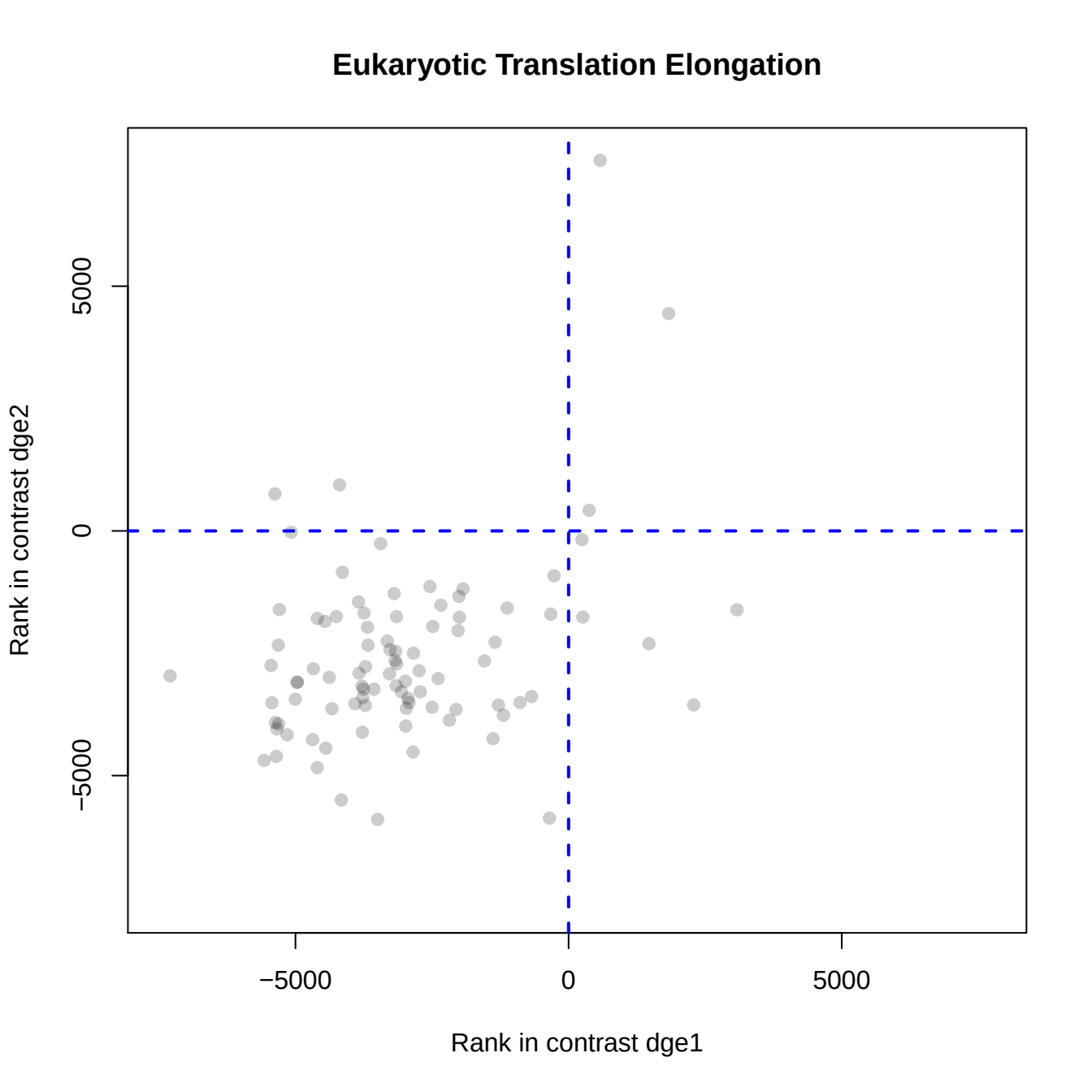

Chromatin modifying enzymes
5000
0
−5000
Position in rank
dge1
dge2
Var2

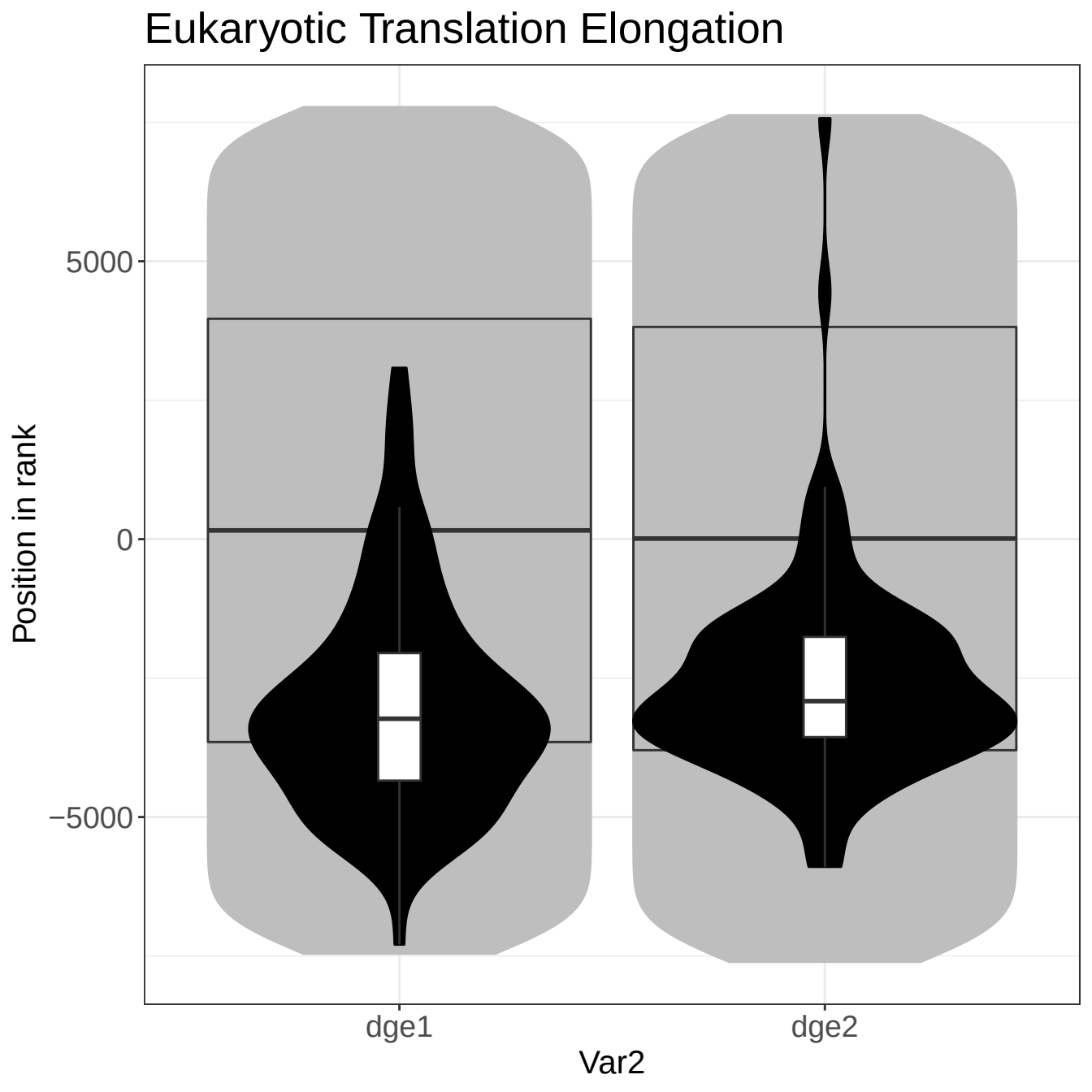

Chromatin organization
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1e−08
8e−09
6e−09
4e−09
2e−09
0e+00

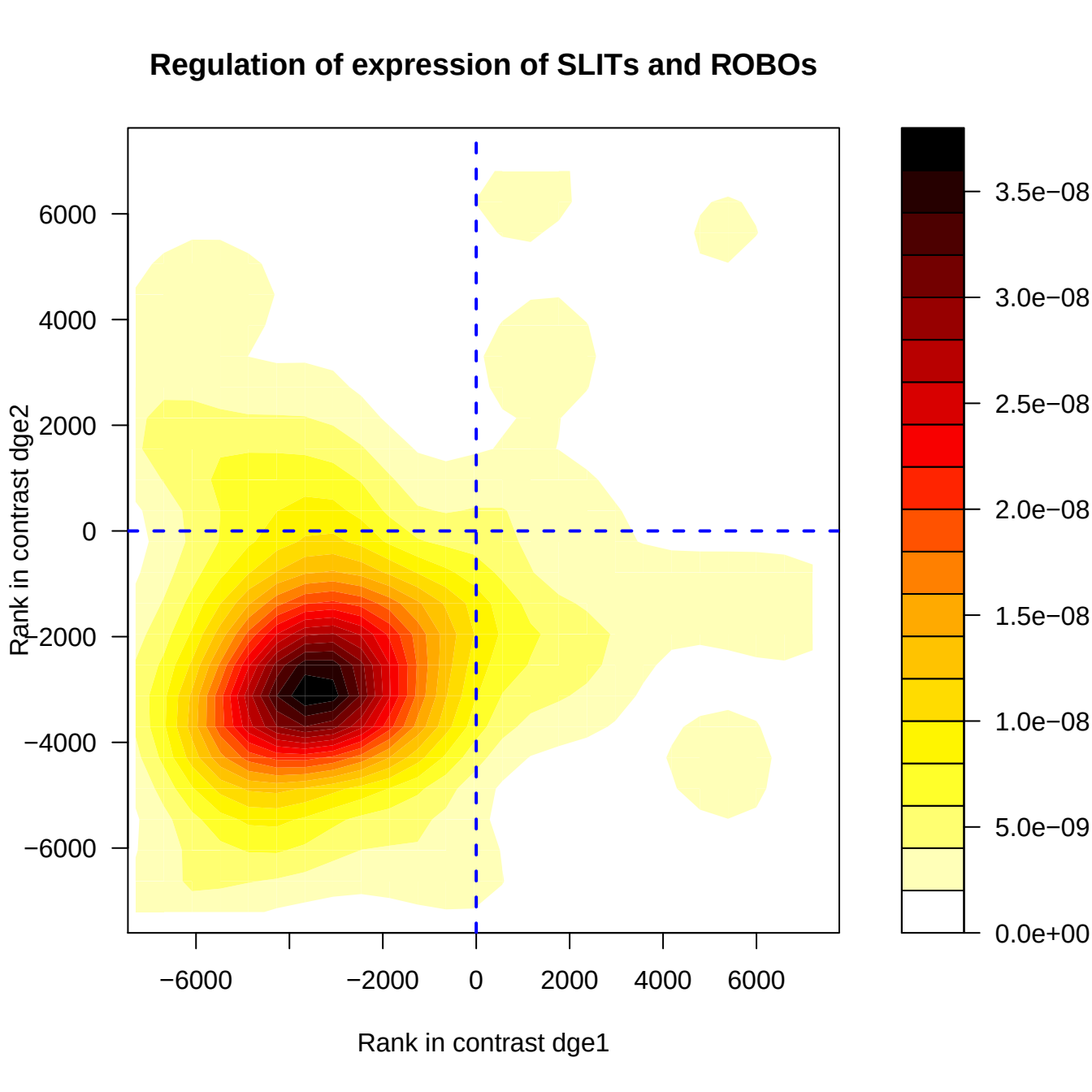

Chromatin organization
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

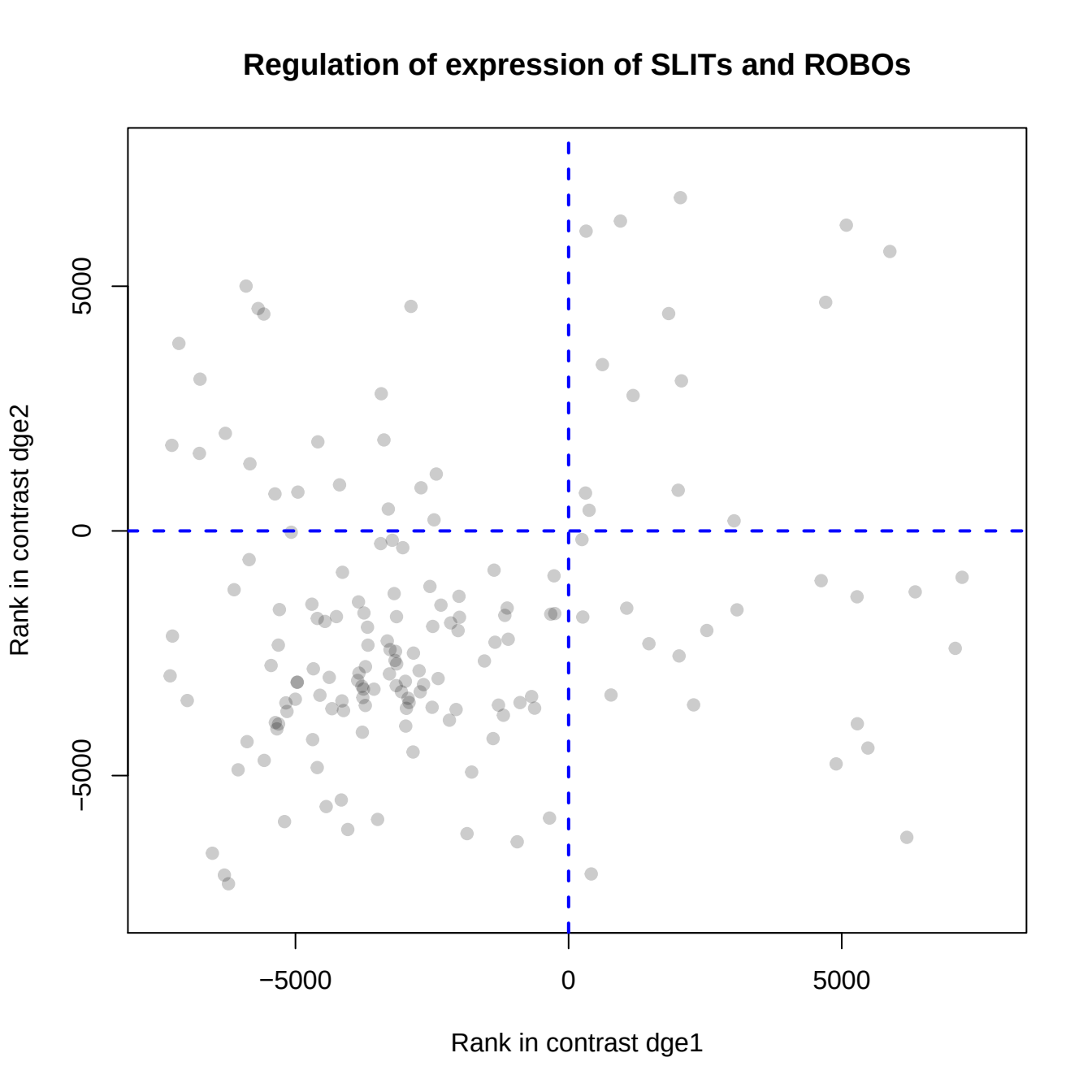

Chromatin organization
5000
0
−5000
Position in rank
dge1
dge2
Var2

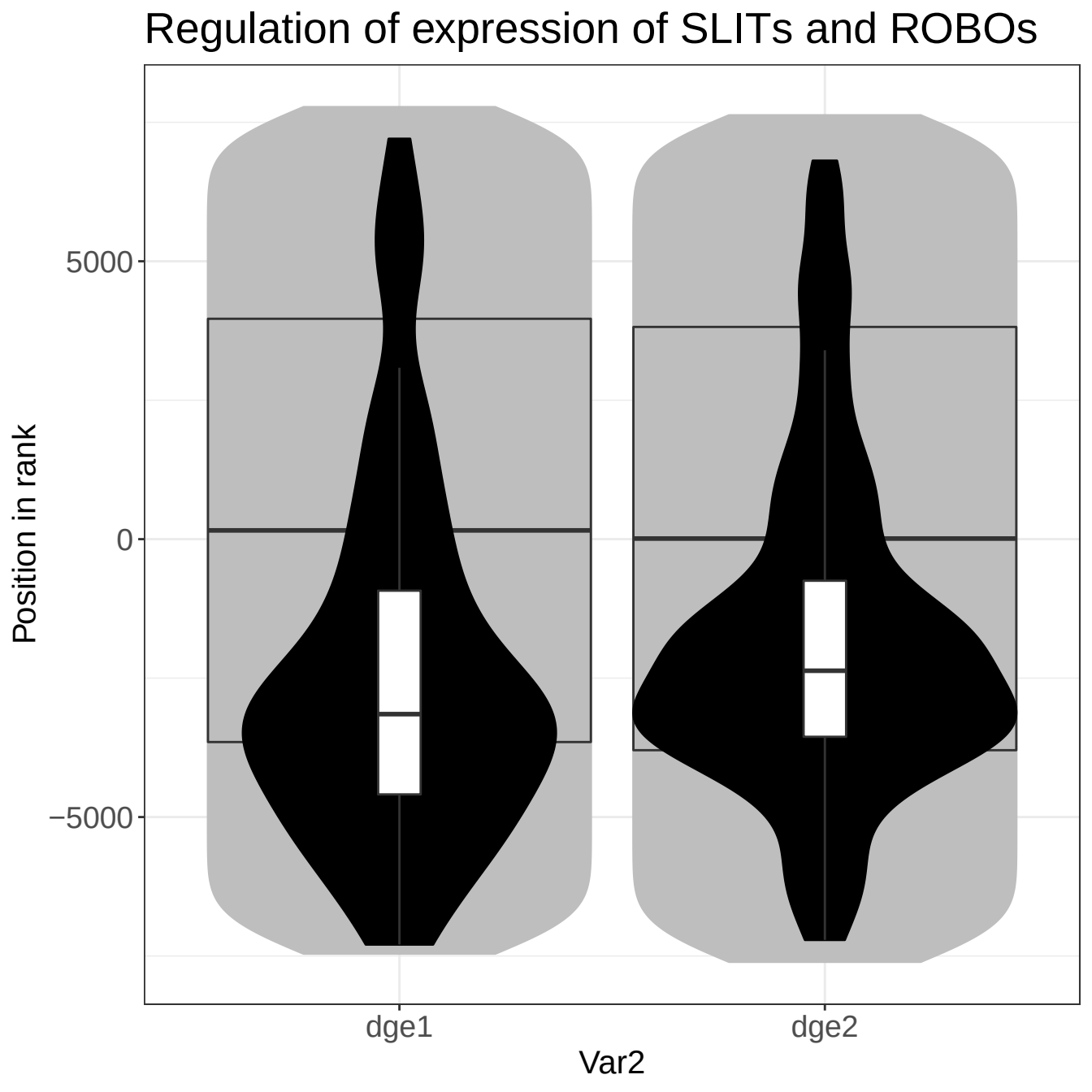

Eukaryotic Translation Elongation
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−08
6e−08
4e−08
2e−08
0e+00

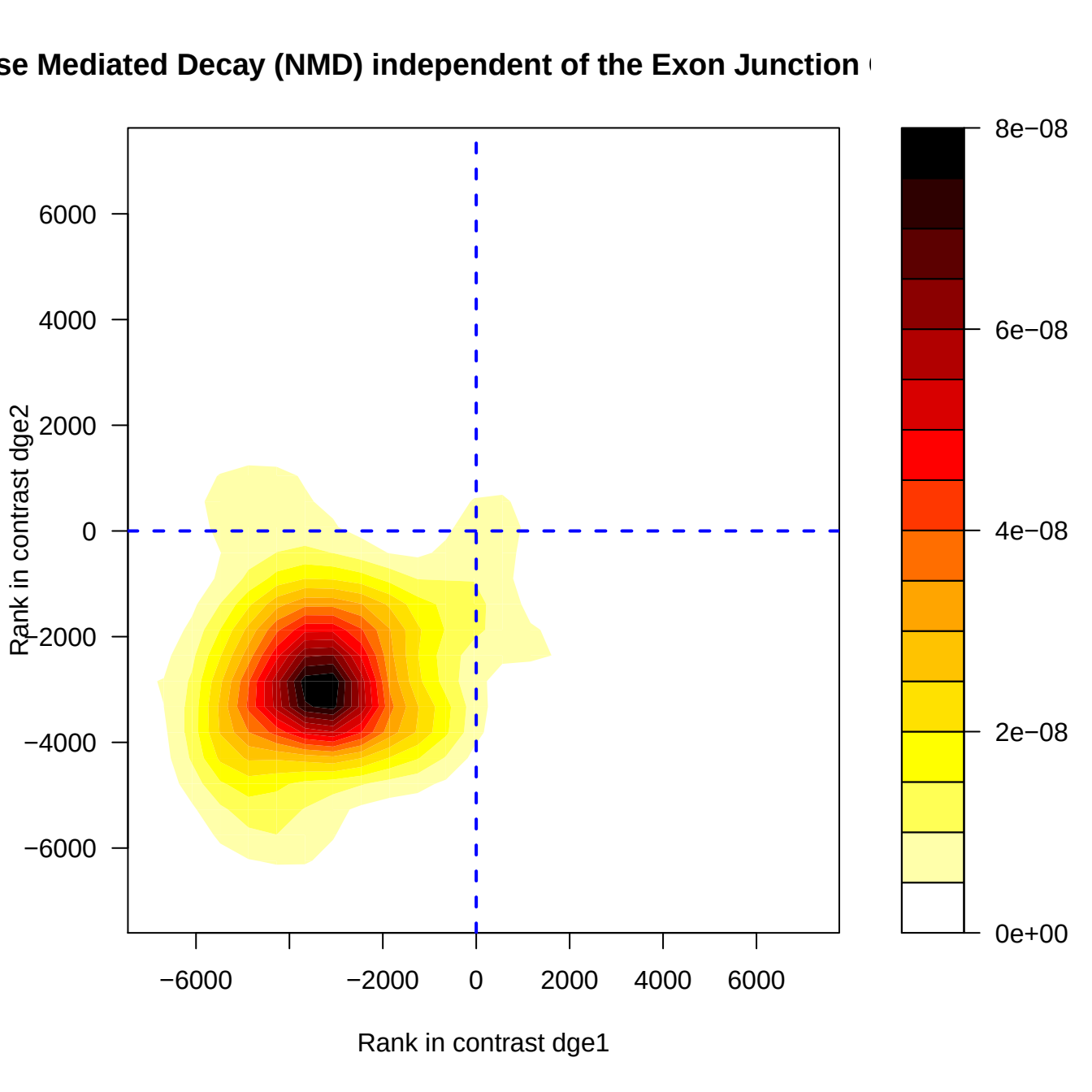

Eukaryotic Translation Elongation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

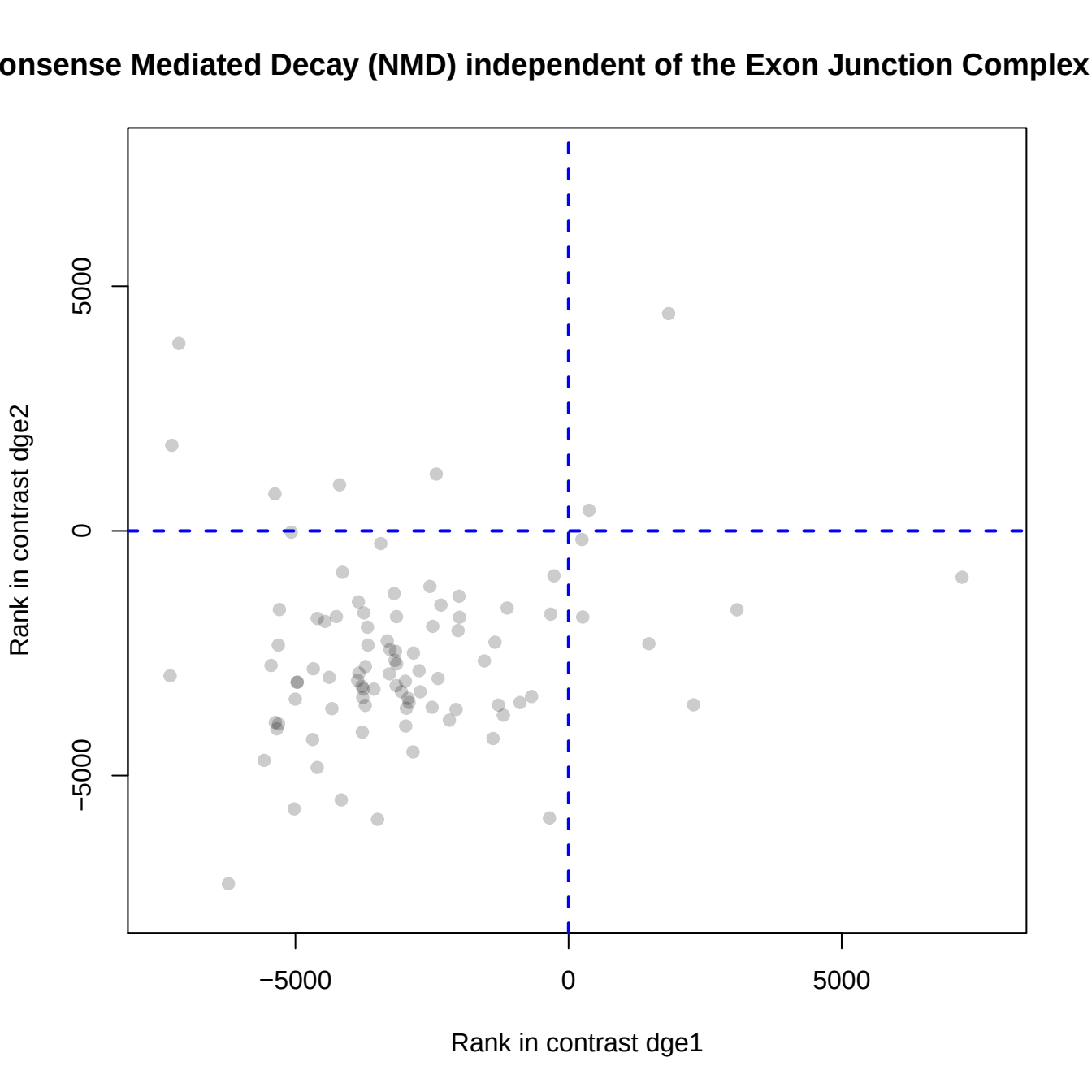

Eukaryotic Translation Elongation
5000
0
−5000
Position in rank
dge1
dge2
Var2

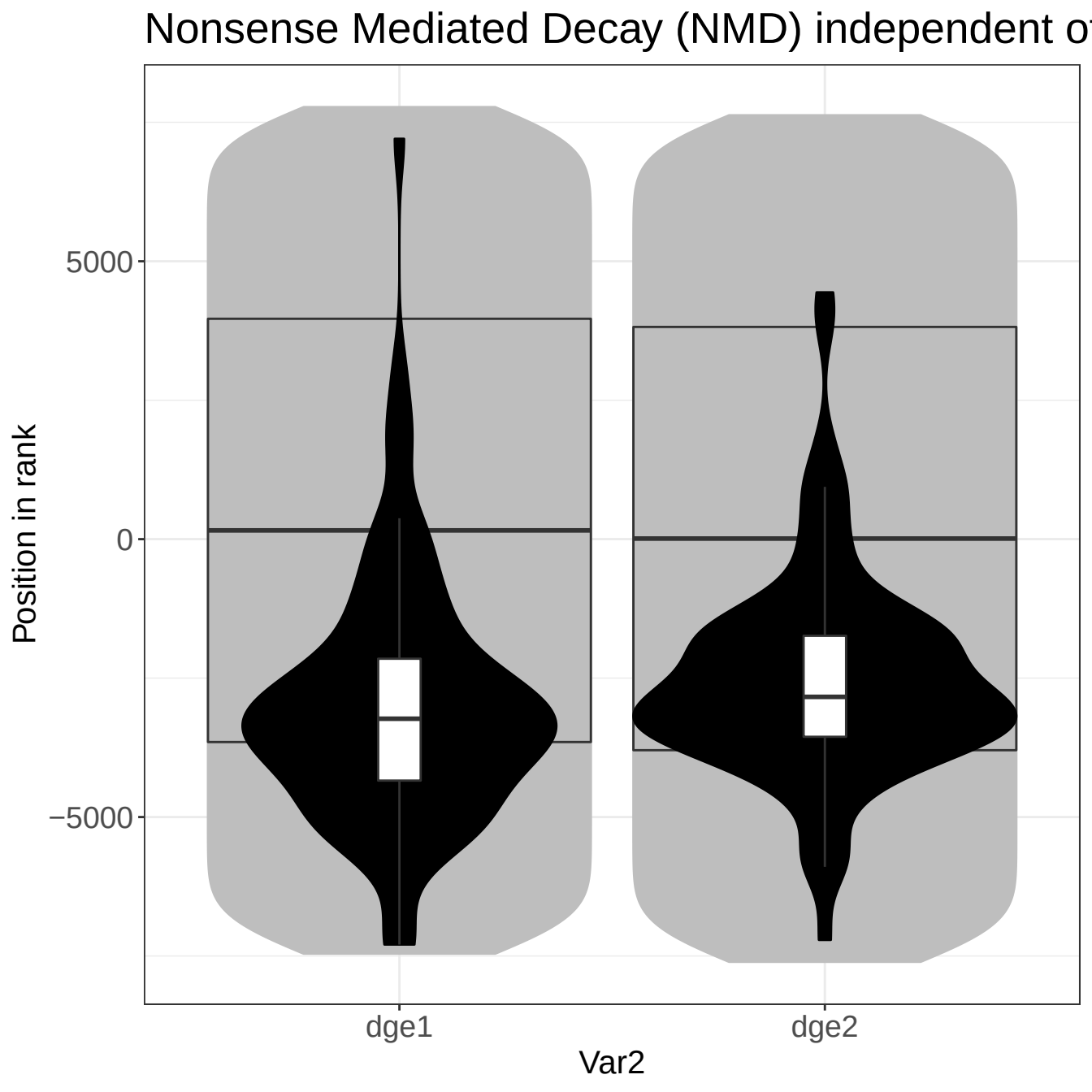

Regulation of expression of SLITs and ROBOs
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge1
−6000
−2000
0
2000
4000
6000
3.5e−08
3.0e−08
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

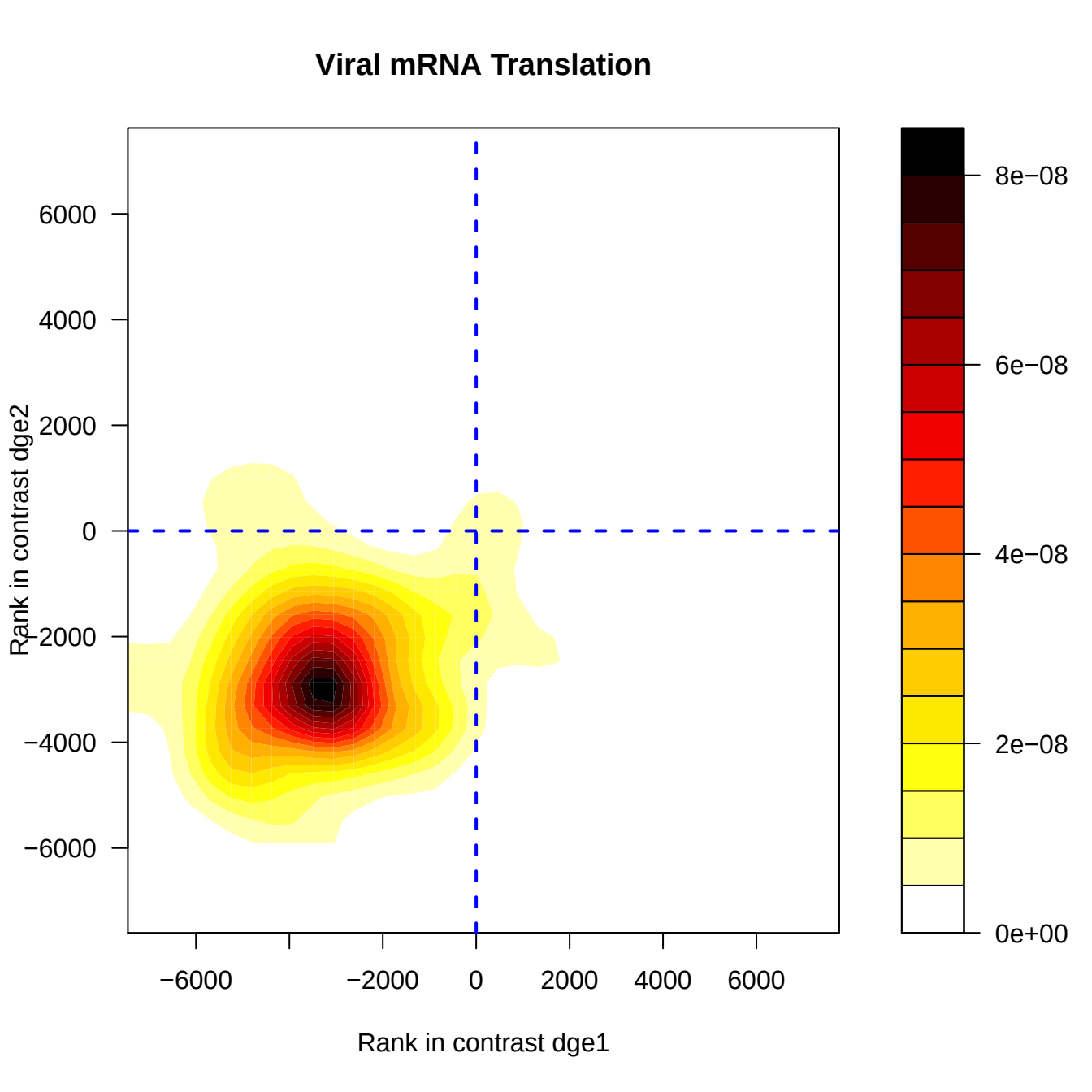

Regulation of expression of SLITs and ROBOs
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

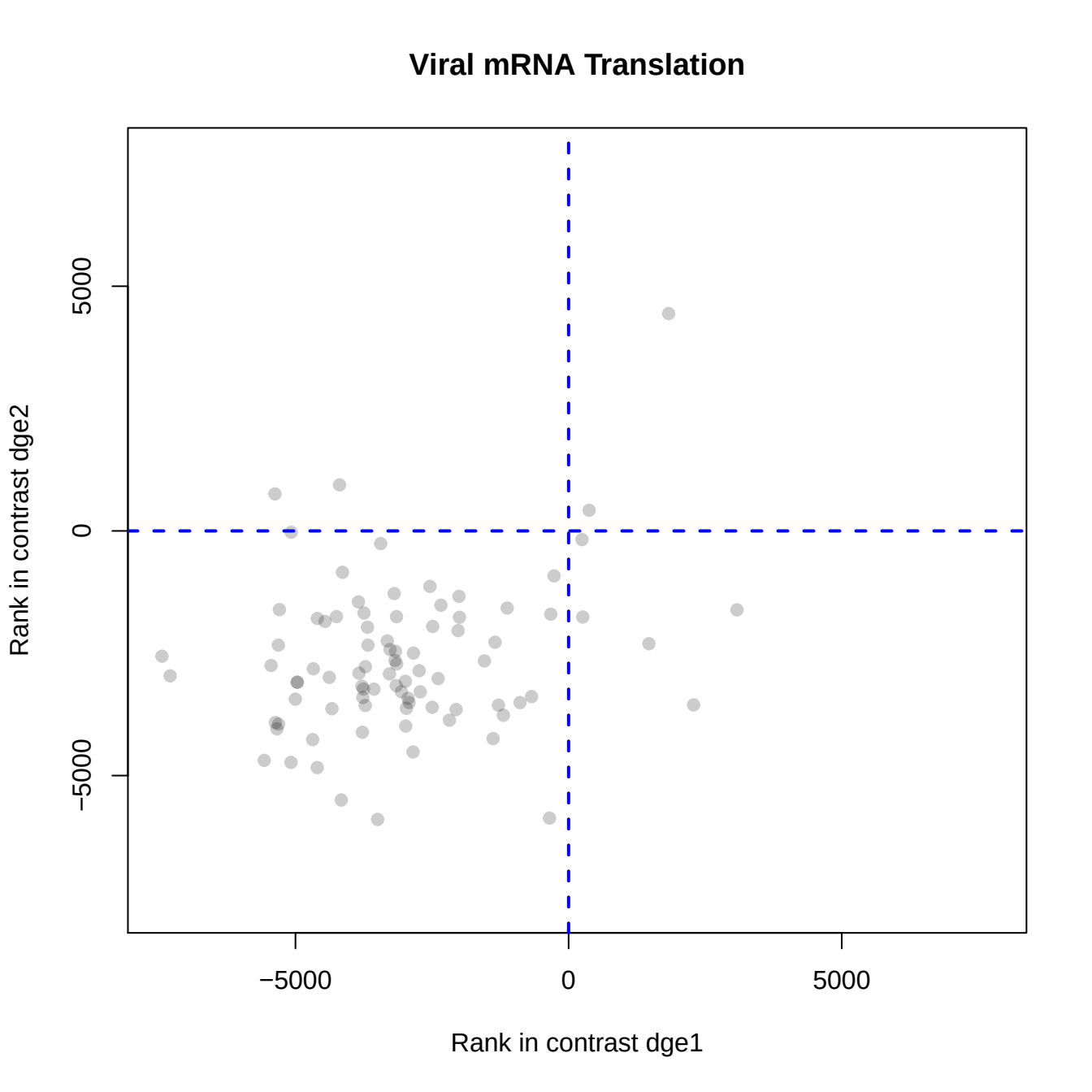

Regulation of expression of SLITs and ROBOs
Position in rank
5000
0
−5000
dge1
dge2
Var2

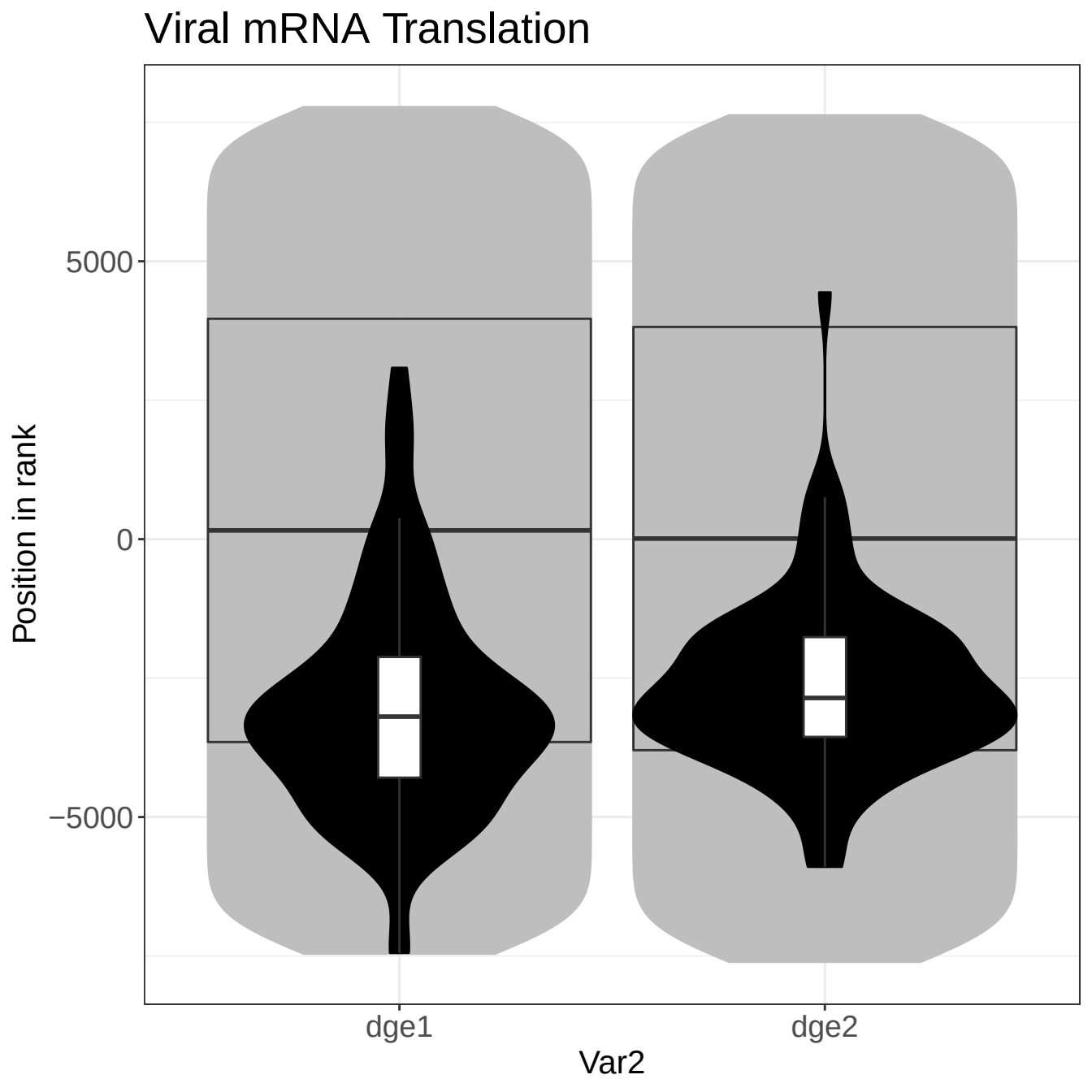

se Mediated Decay (NMD) independent of the Exon Junction
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−08
6e−08
4e−08
2e−08
0e+00

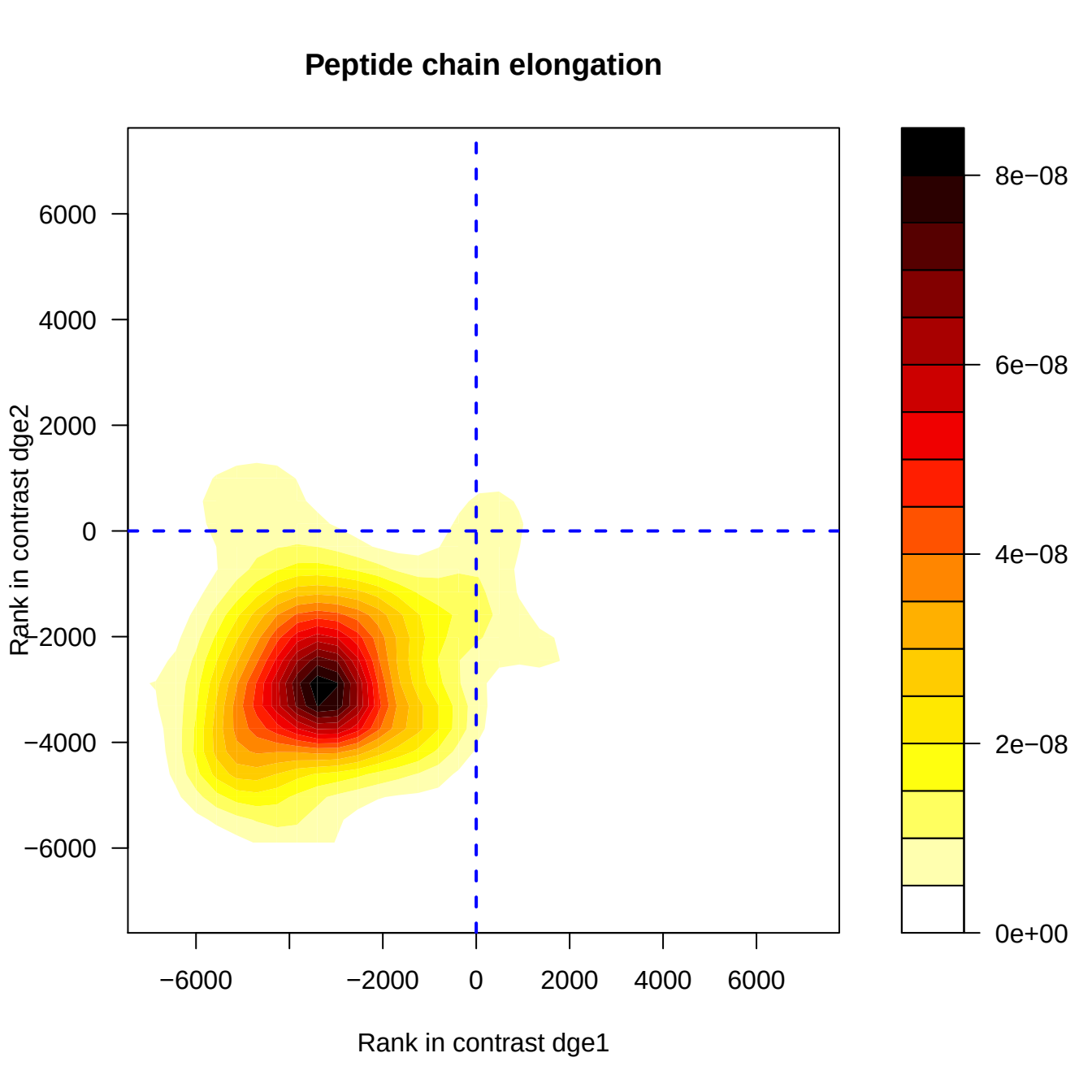

onsense Mediated Decay (NMD) independent of the Exon Junction Complex
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

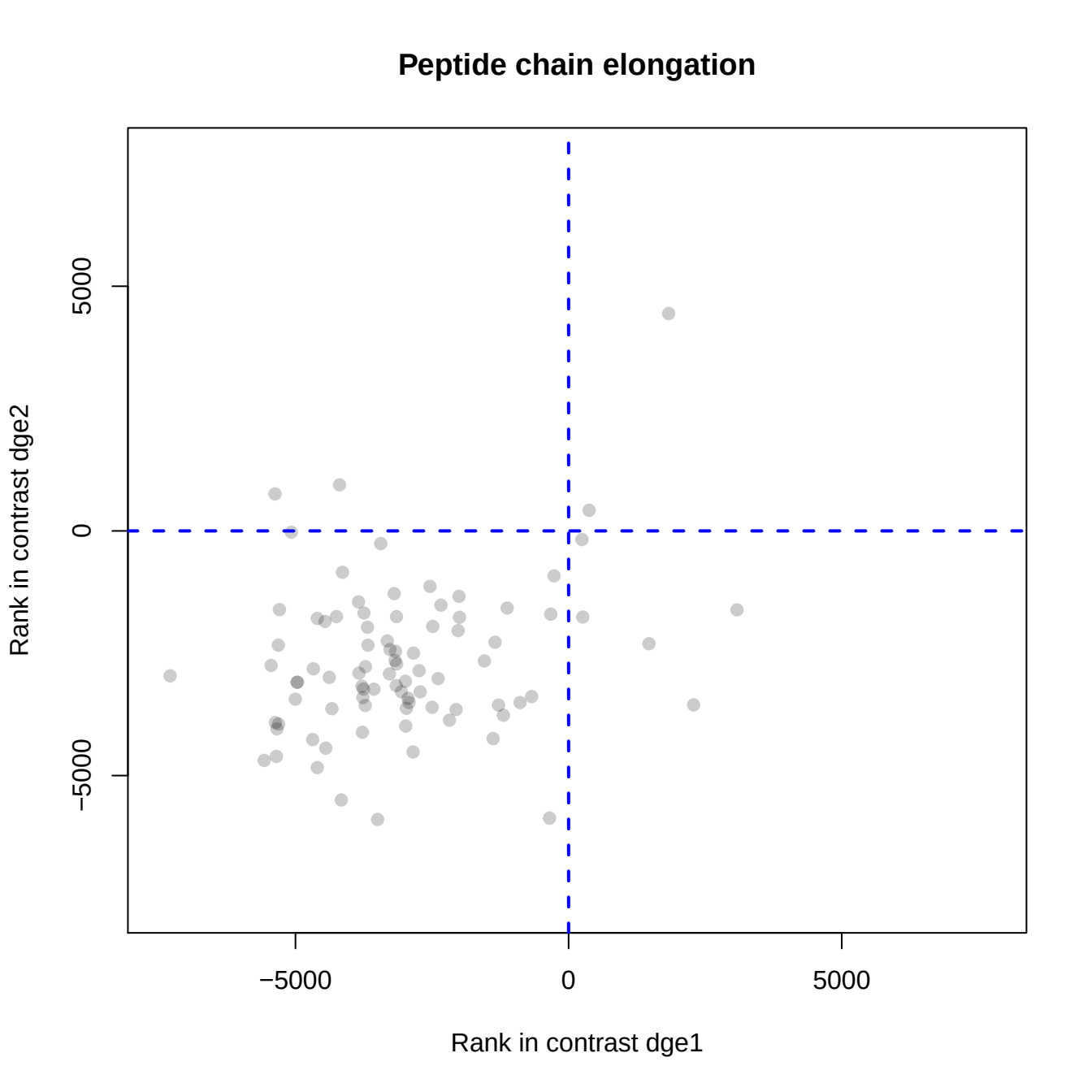

Nonsense Mediated Decay (NMD) independent of
5000
0
−5000
Position in rank
dge1
dge2
Var2

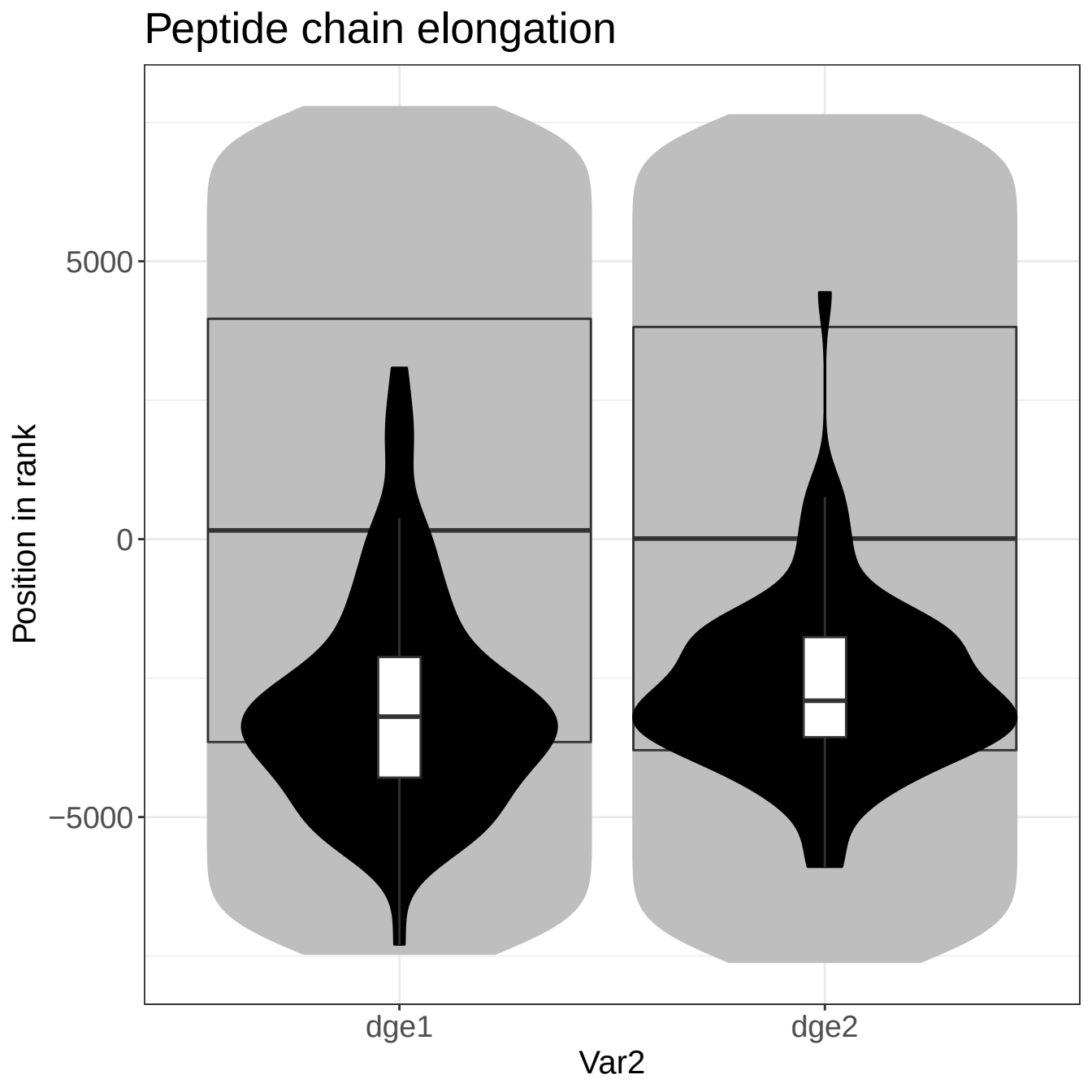

Viral mRNA Translation
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−08
6e−08
4e−08
2e−08
0e+00

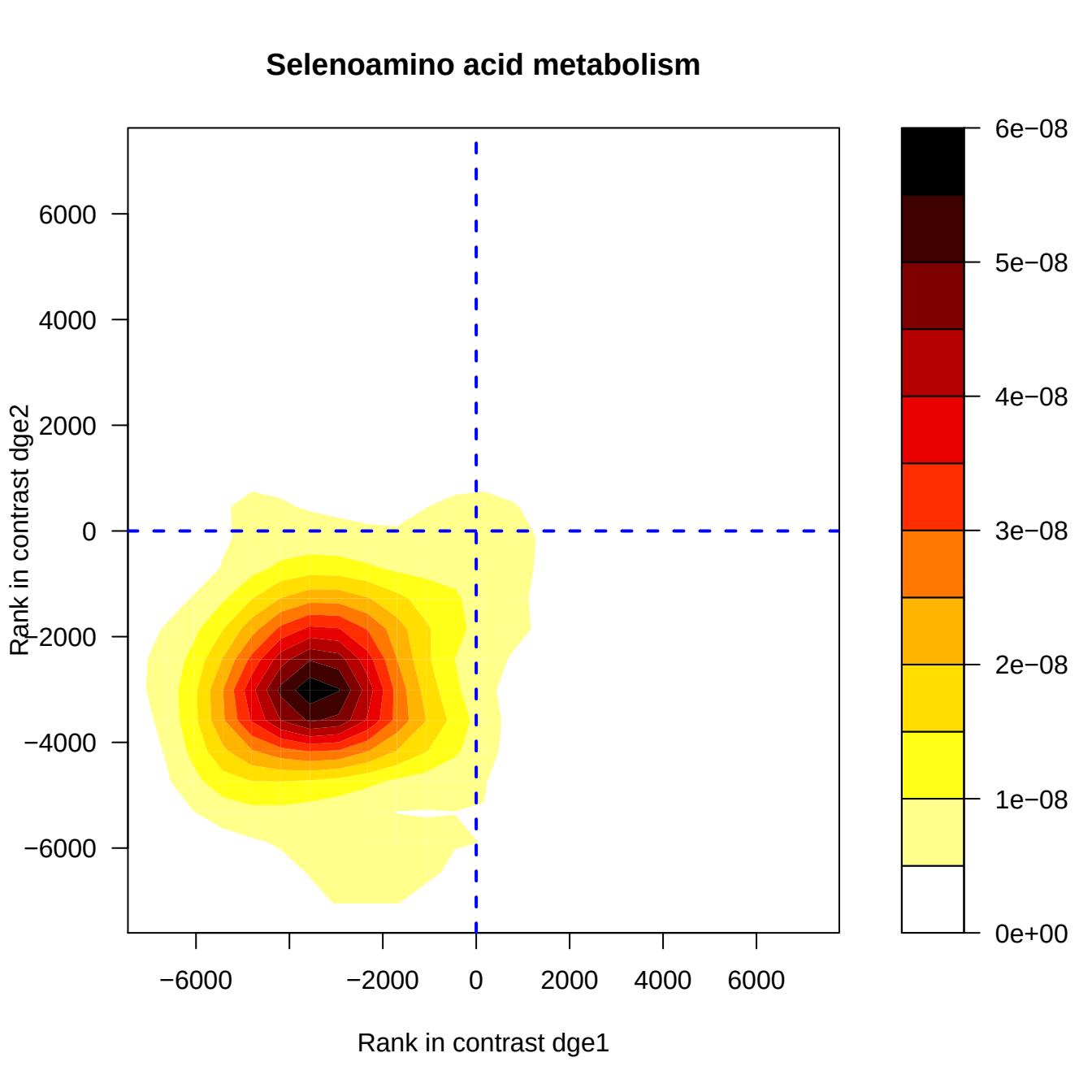

Viral mRNA Translation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

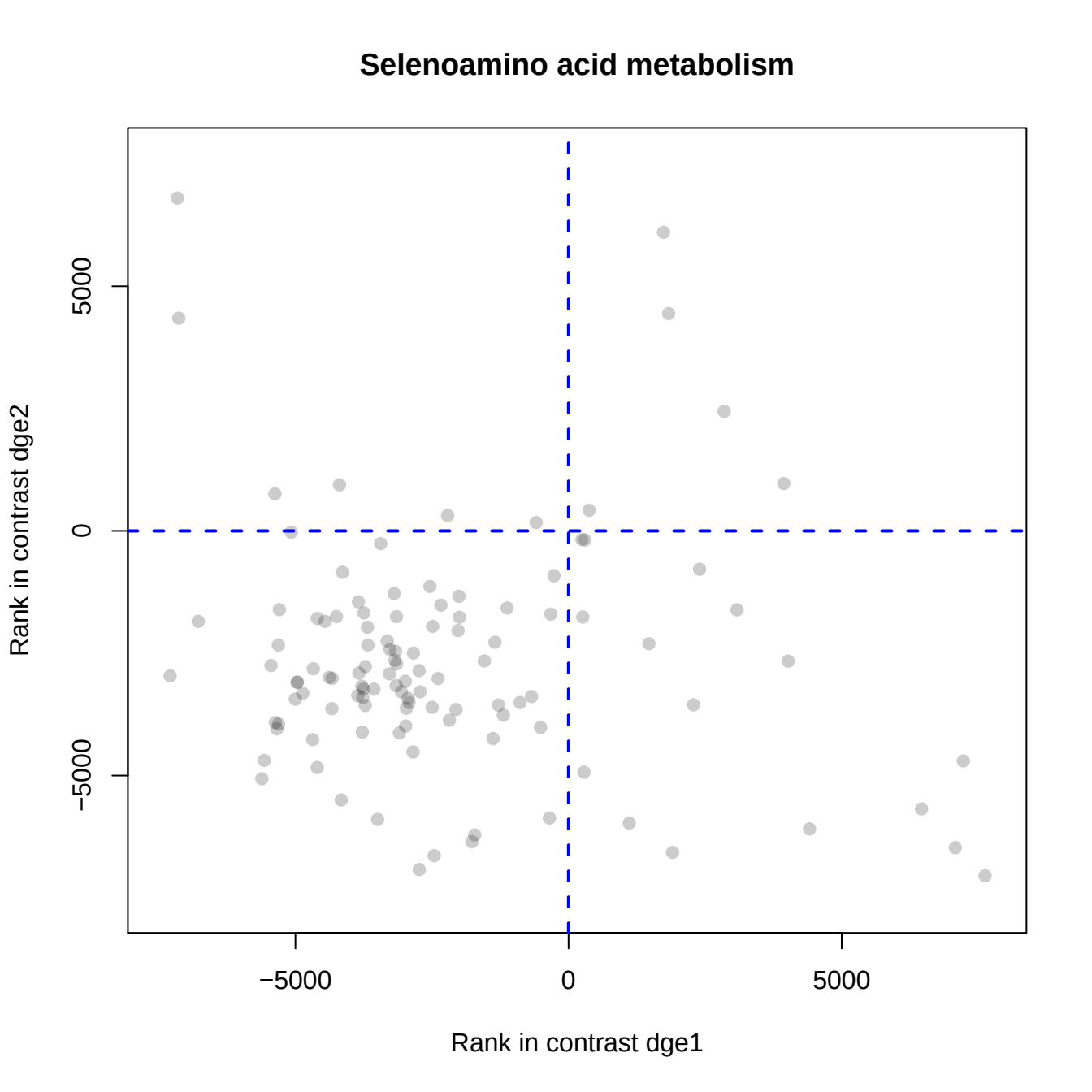

Viral mRNA Translation
5000
0
−5000
Position in rank
dge1
dge2
Var2

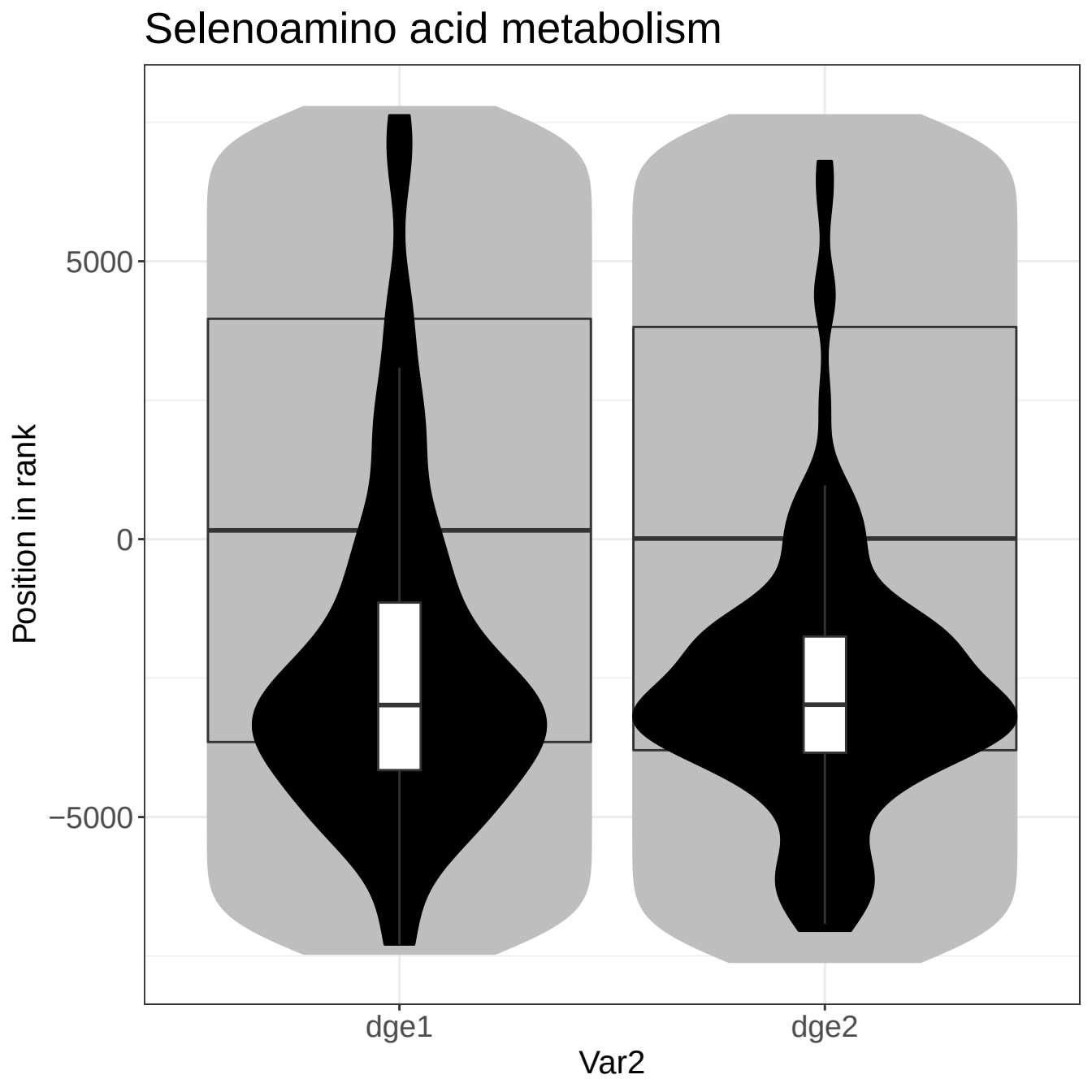

Peptide chain elongation
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−08
6e−08
4e−08
2e−08
0e+00

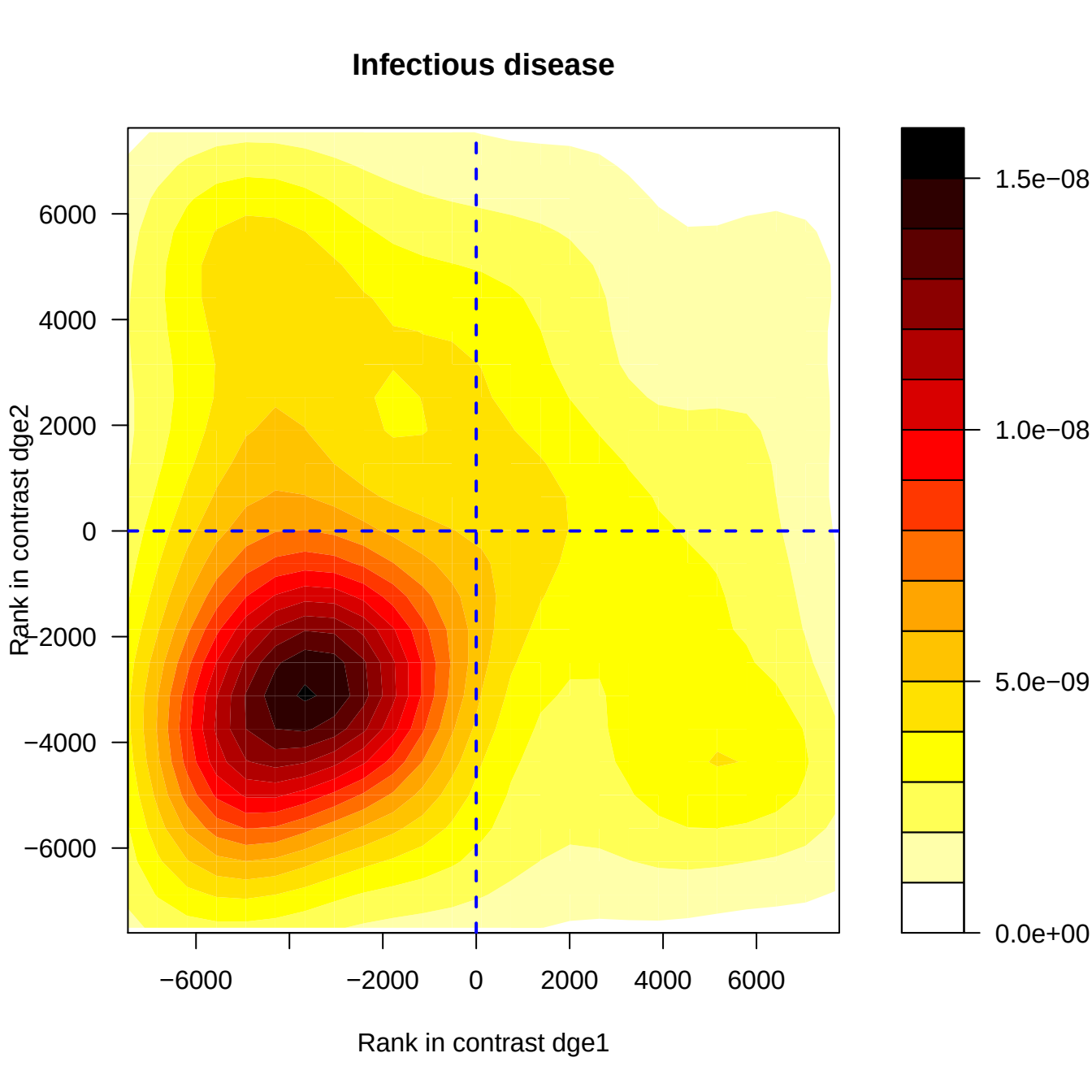

Peptide chain elongation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

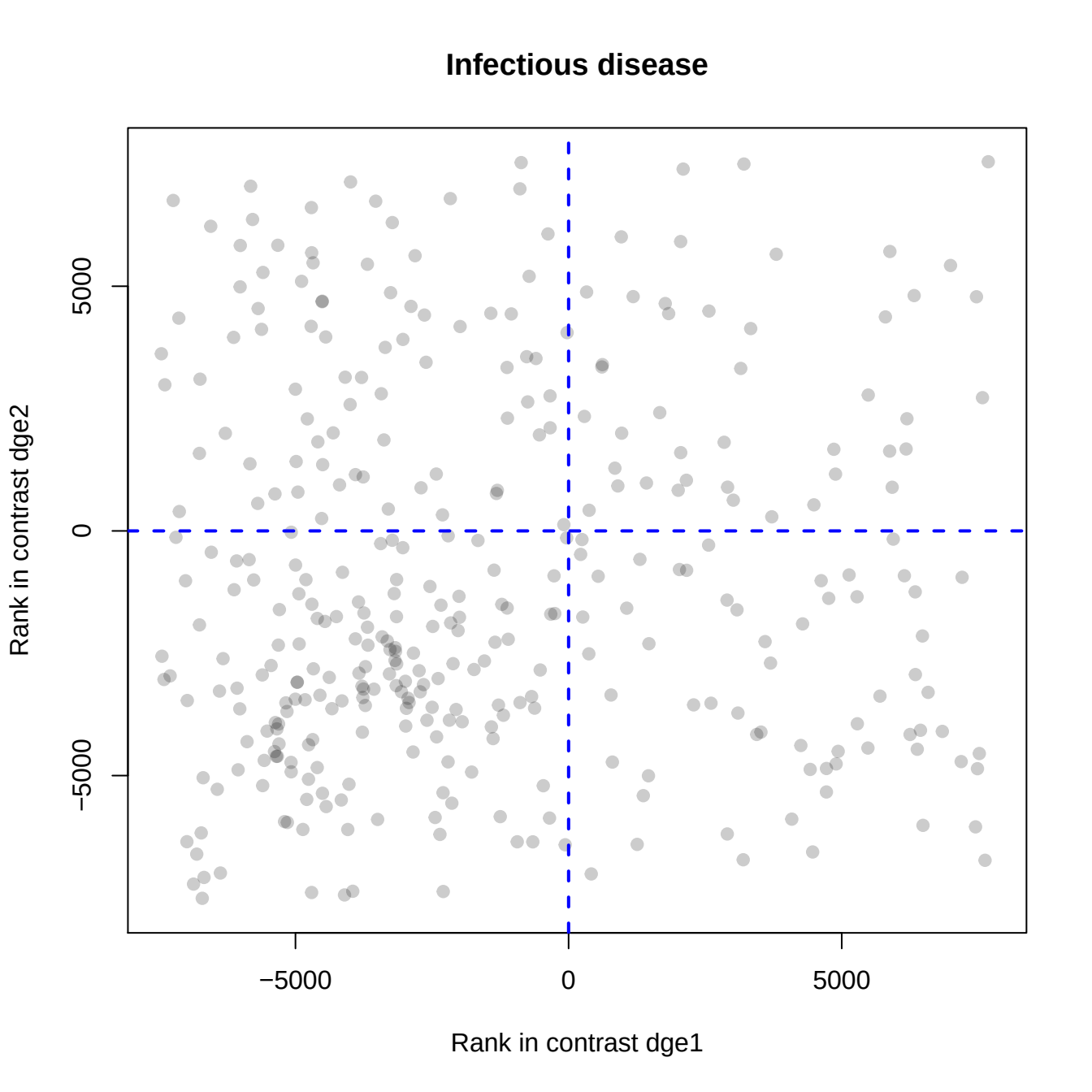

Peptide chain elongation
5000
0
−5000
Position in rank
dge1
dge2
Var2

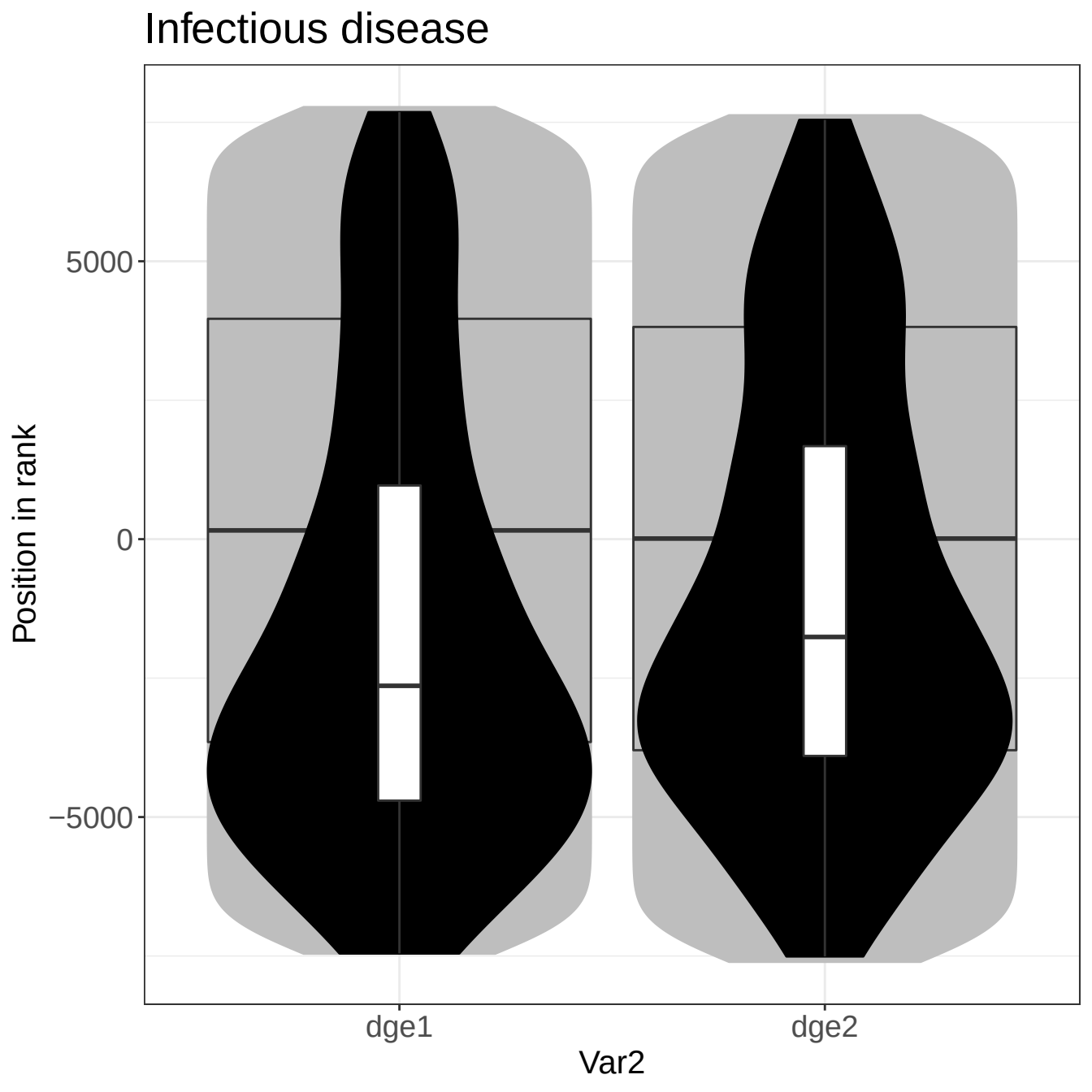

Selenoamino acid metabolism
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

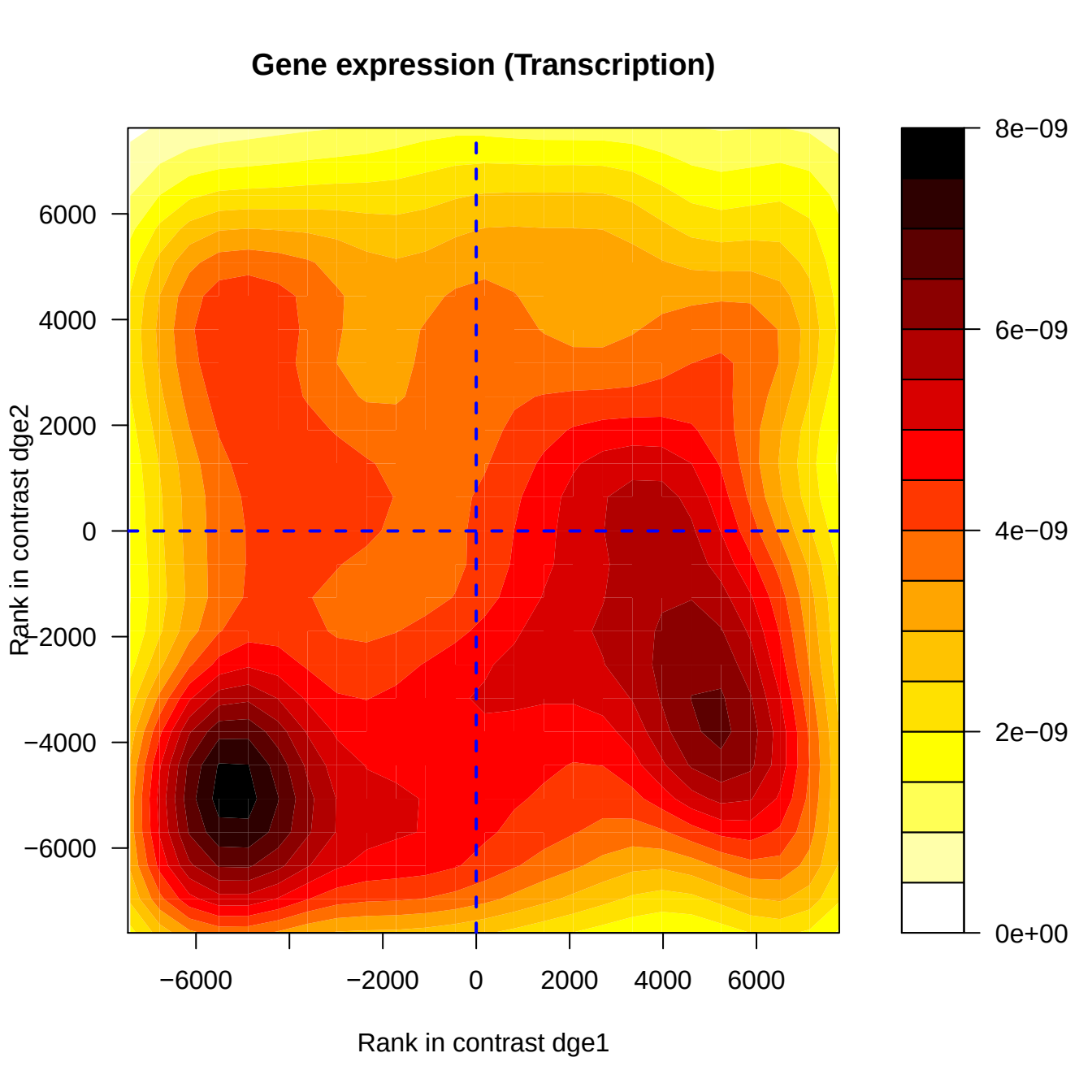

Selenoamino acid metabolism
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

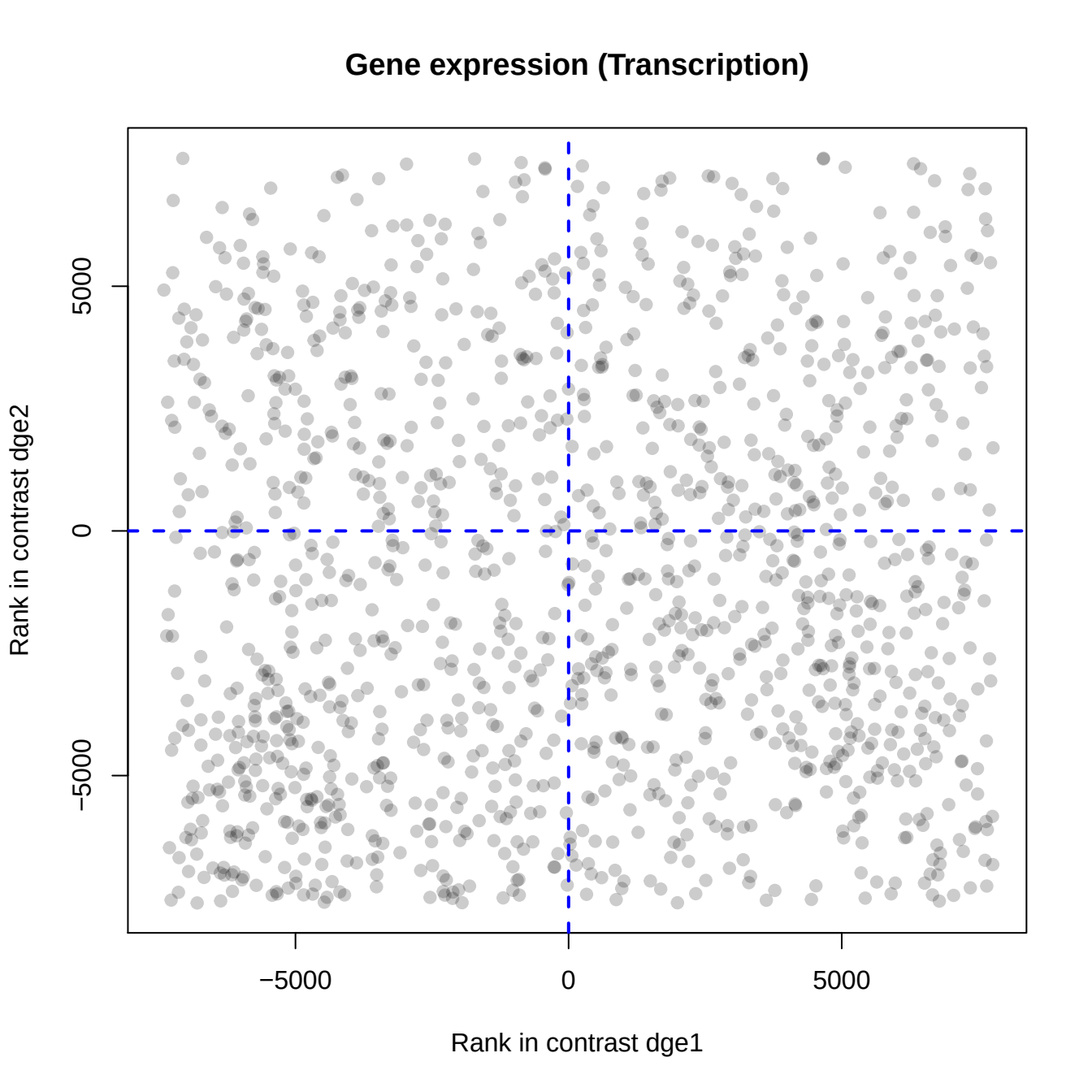

Selenoamino acid metabolism
5000
0
−5000
Position in rank
dge1
dge2
Var2

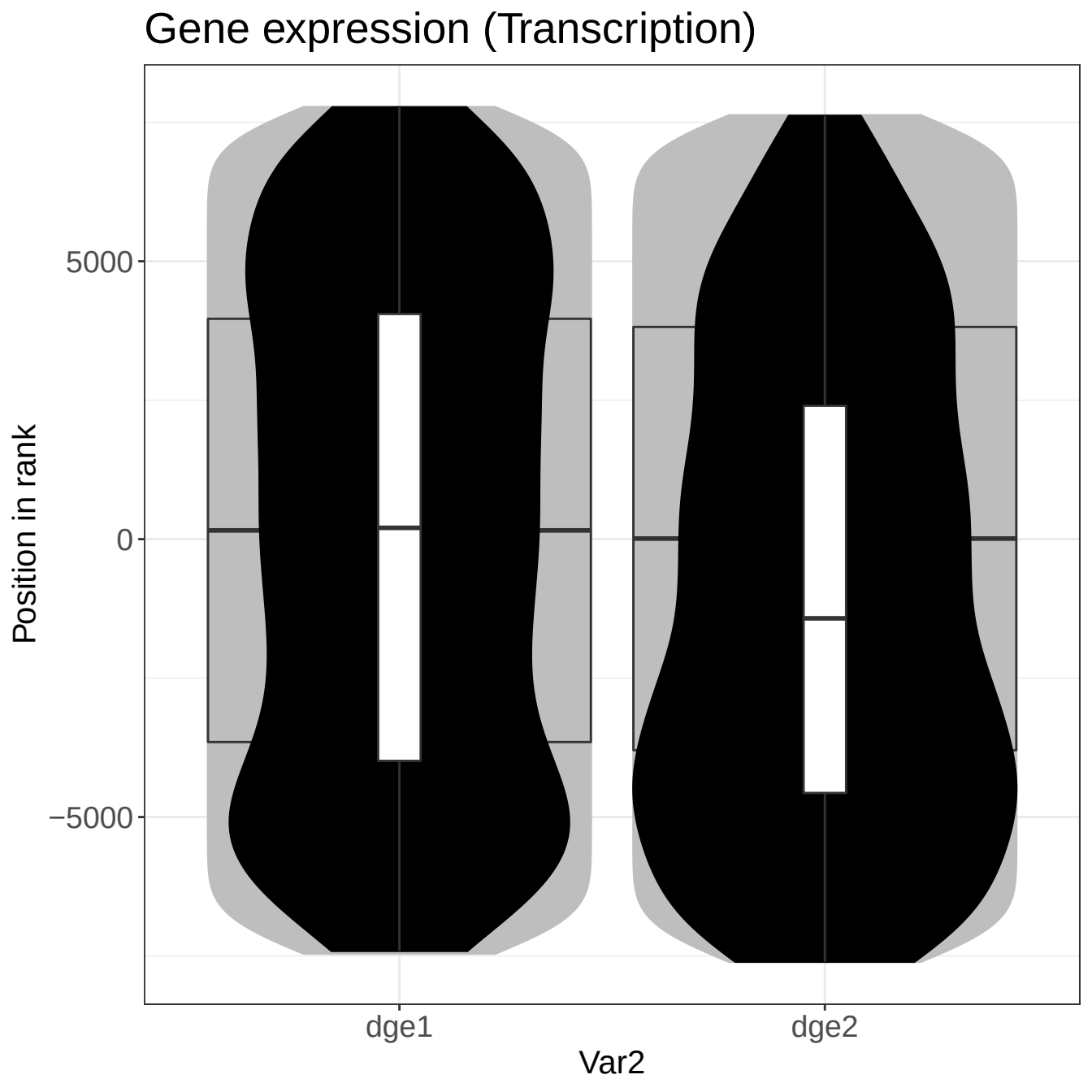

Infectious disease
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
1.5e−08
1.0e−08
5.0e−09
0.0e+00

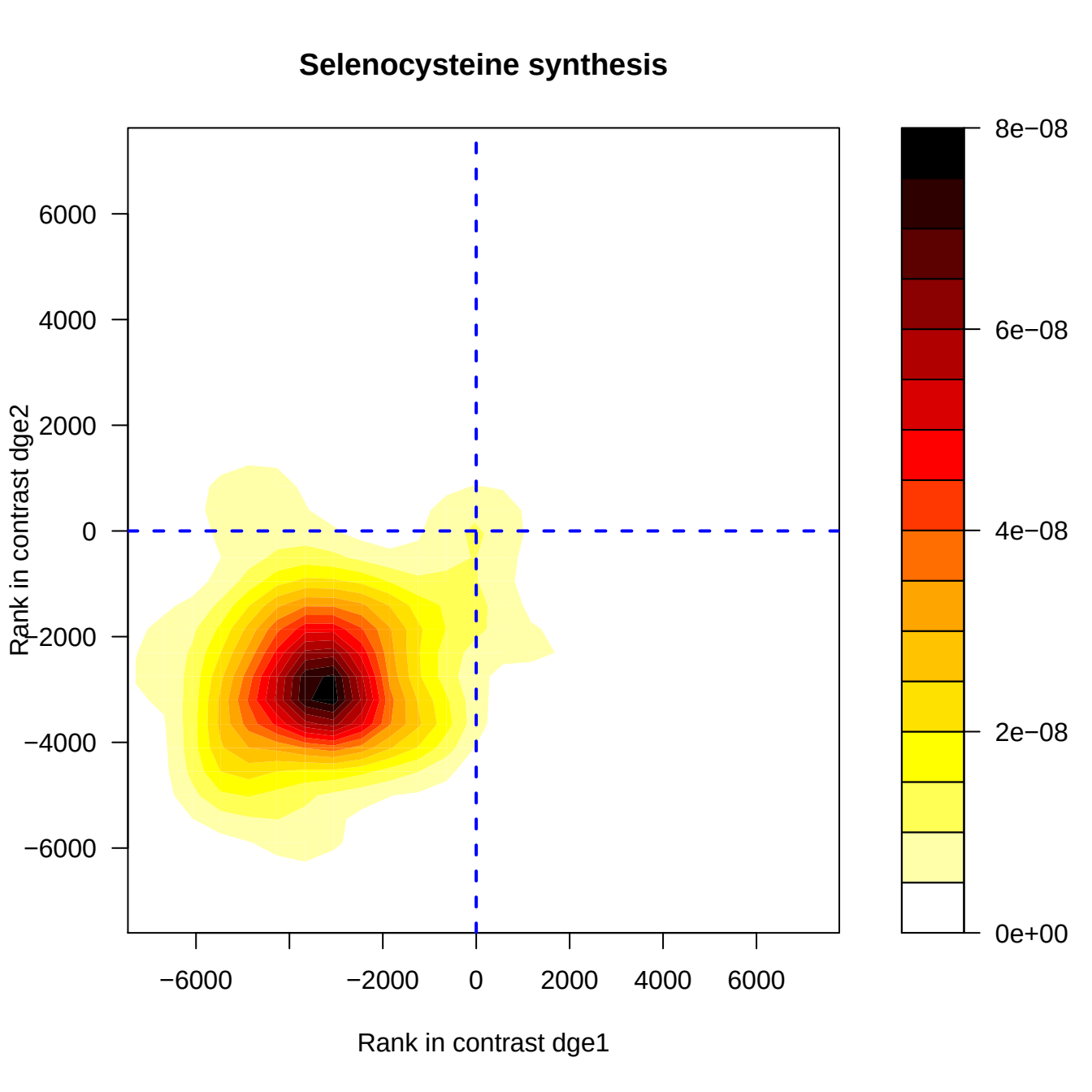

Infectious disease
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

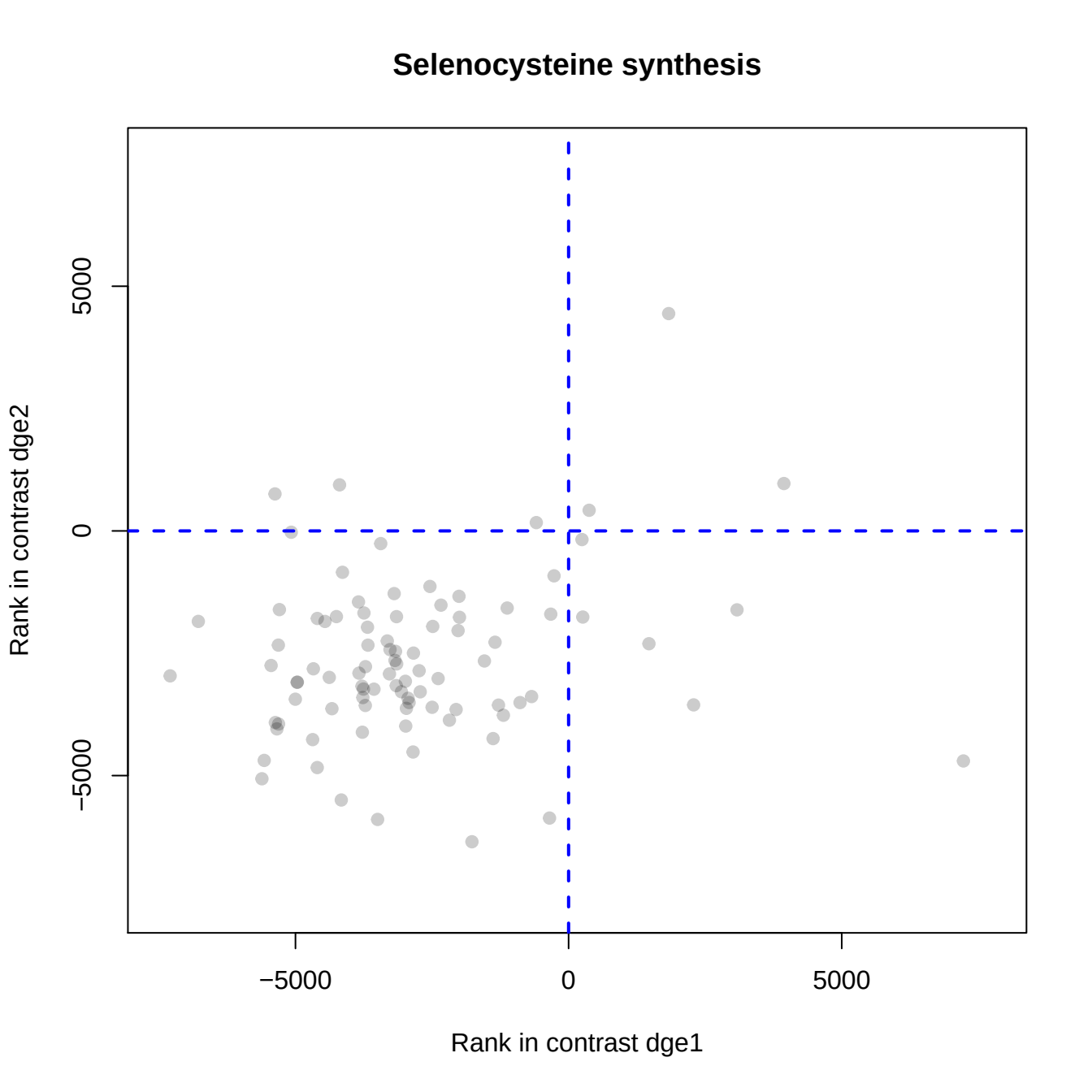

Infectious disease
5000
0
−5000
Position in rank
dge1
dge2
Var2

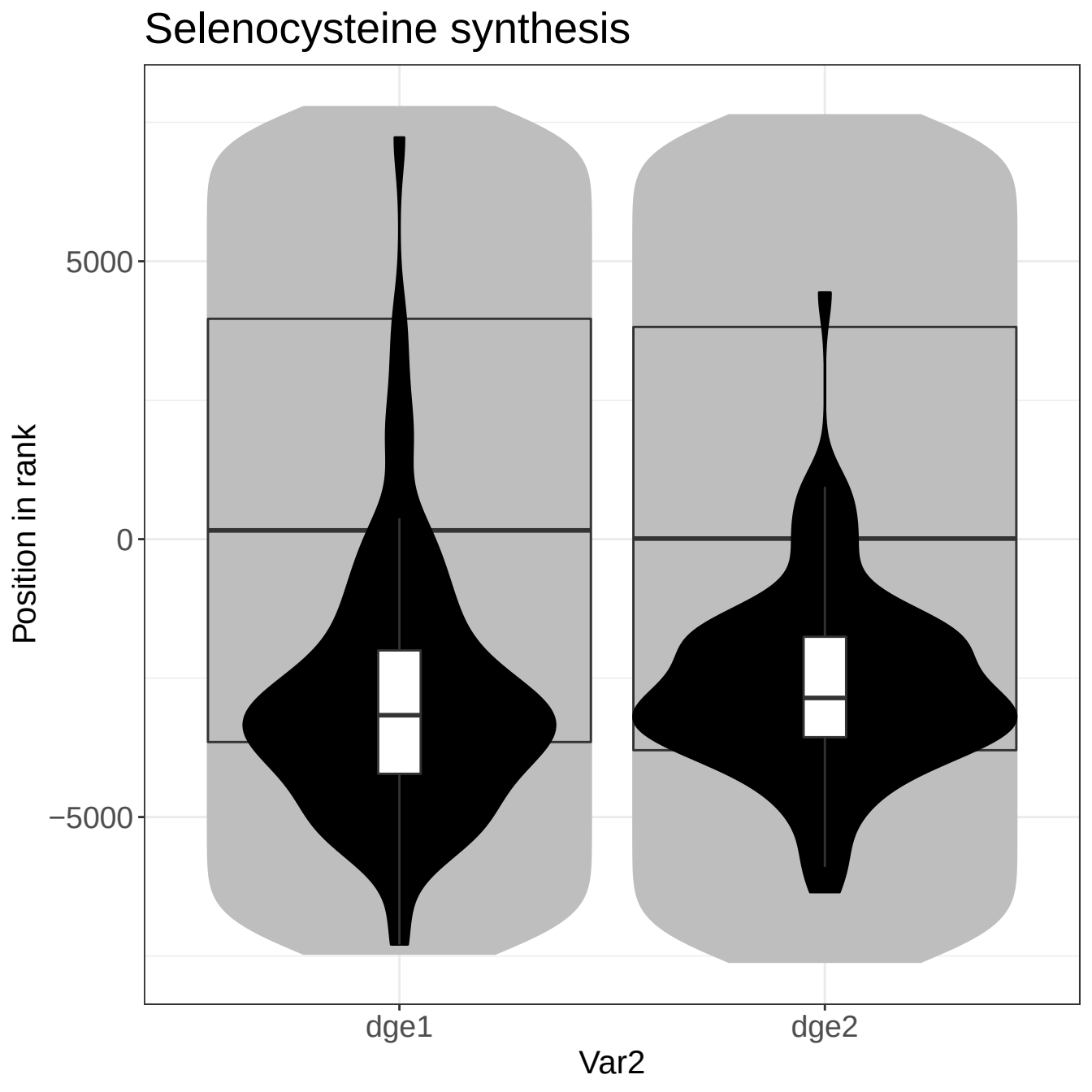

Gene expression (Transcription)
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
8e−09
6e−09
4e−09
2e−09
0e+00

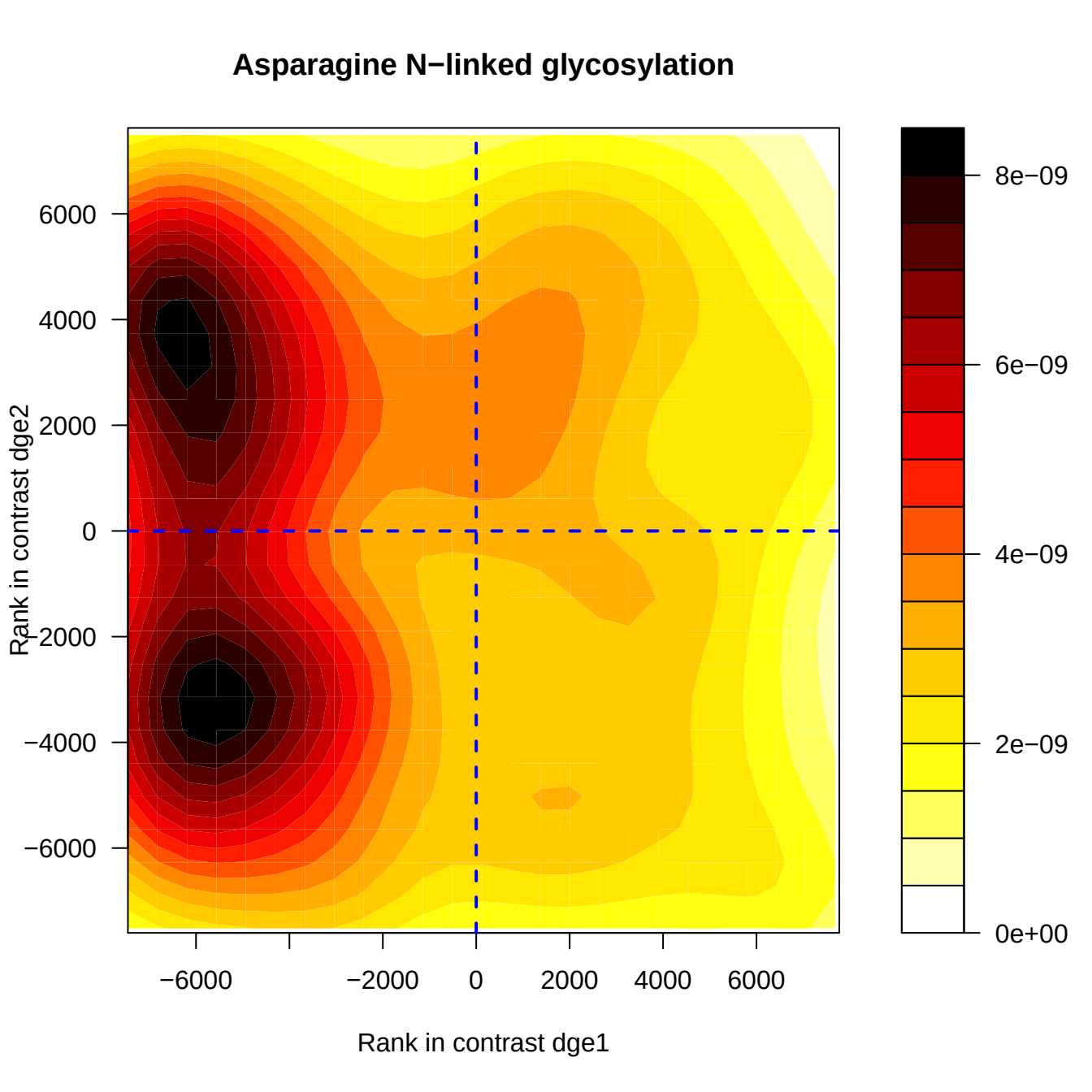

Gene expression (Transcription)
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

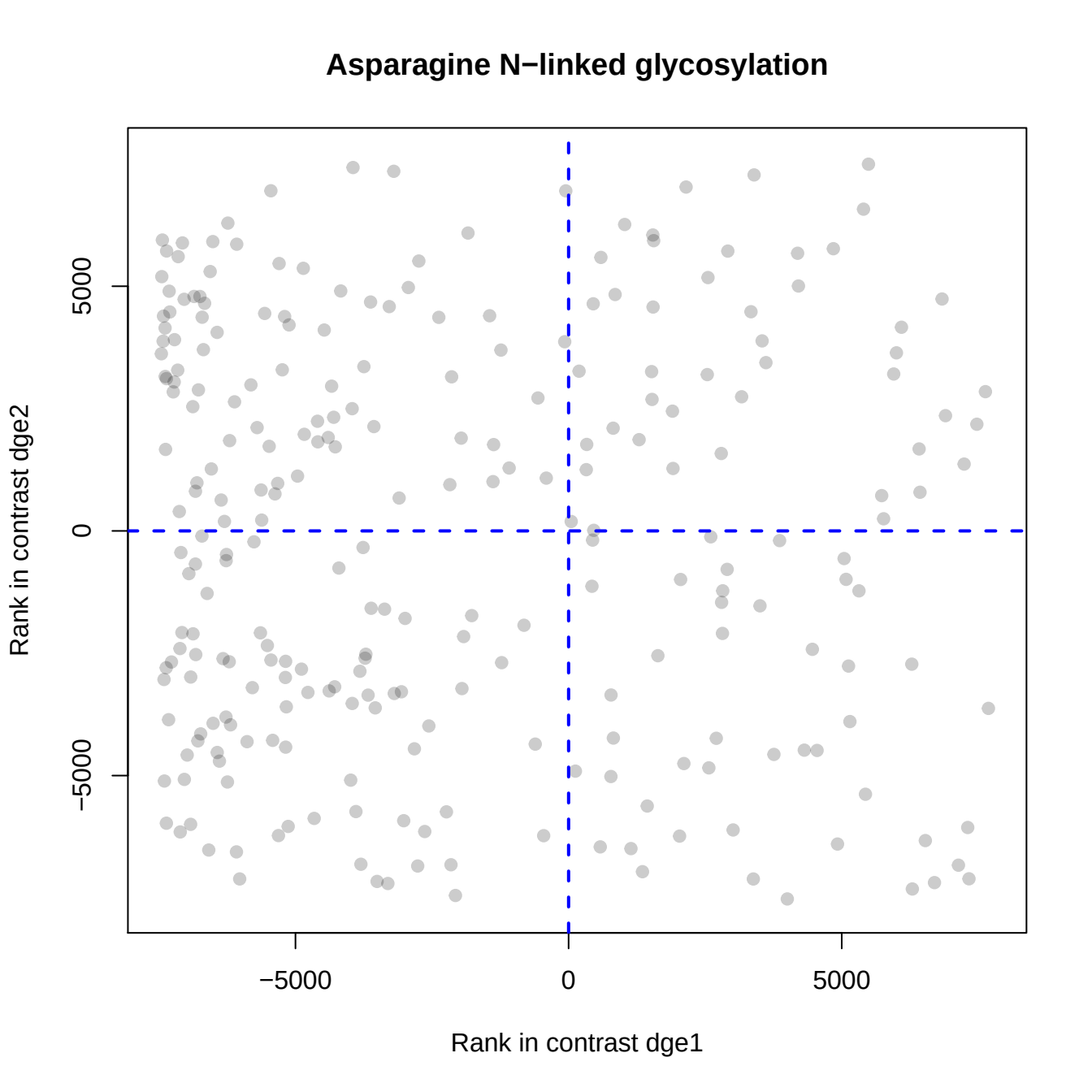

Gene expression (Transcription)
5000
0
−5000
Position in rank
dge1
dge2
Var2

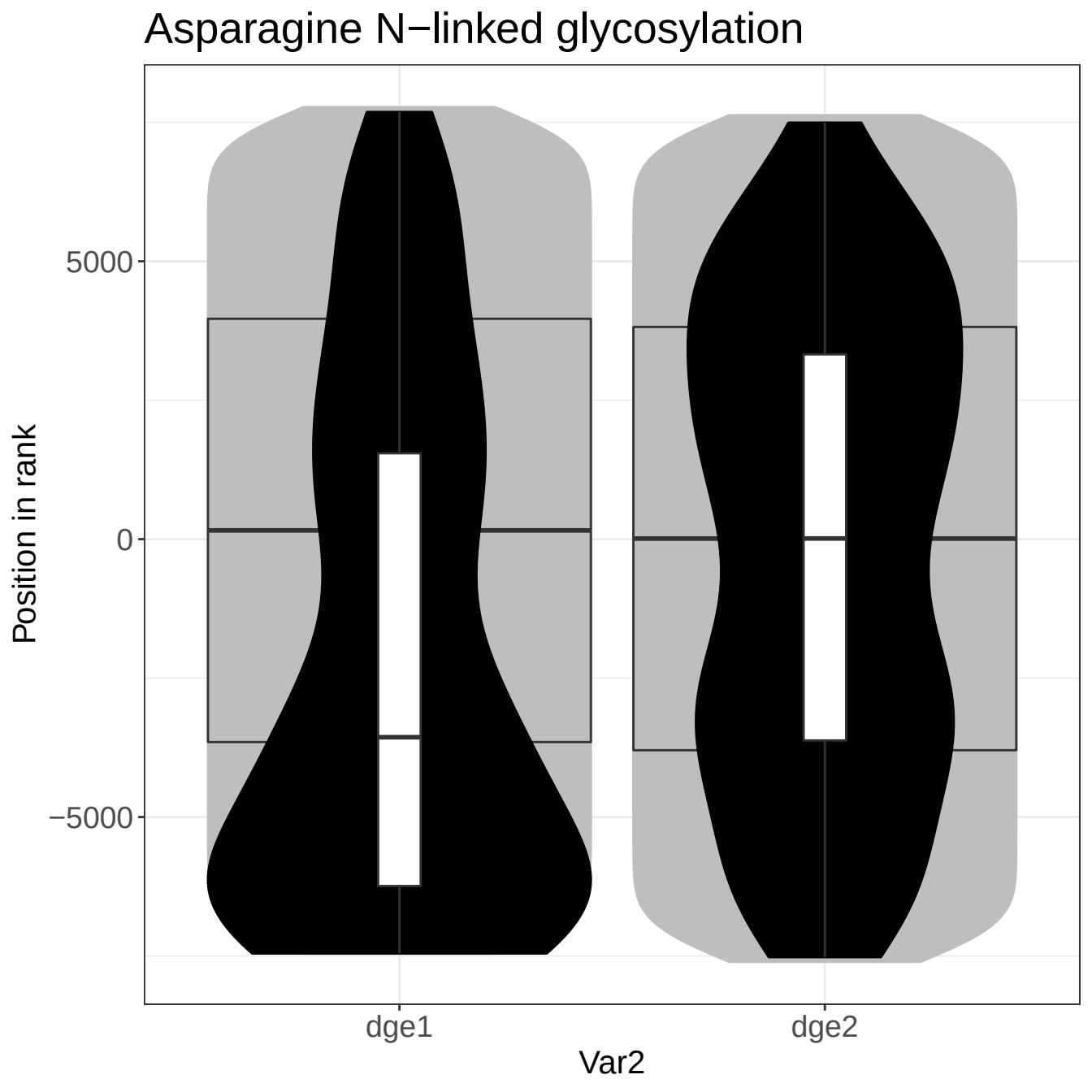

Selenocysteine synthesis
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
8e−08
6e−08
4e−08
2e−08
0e+00

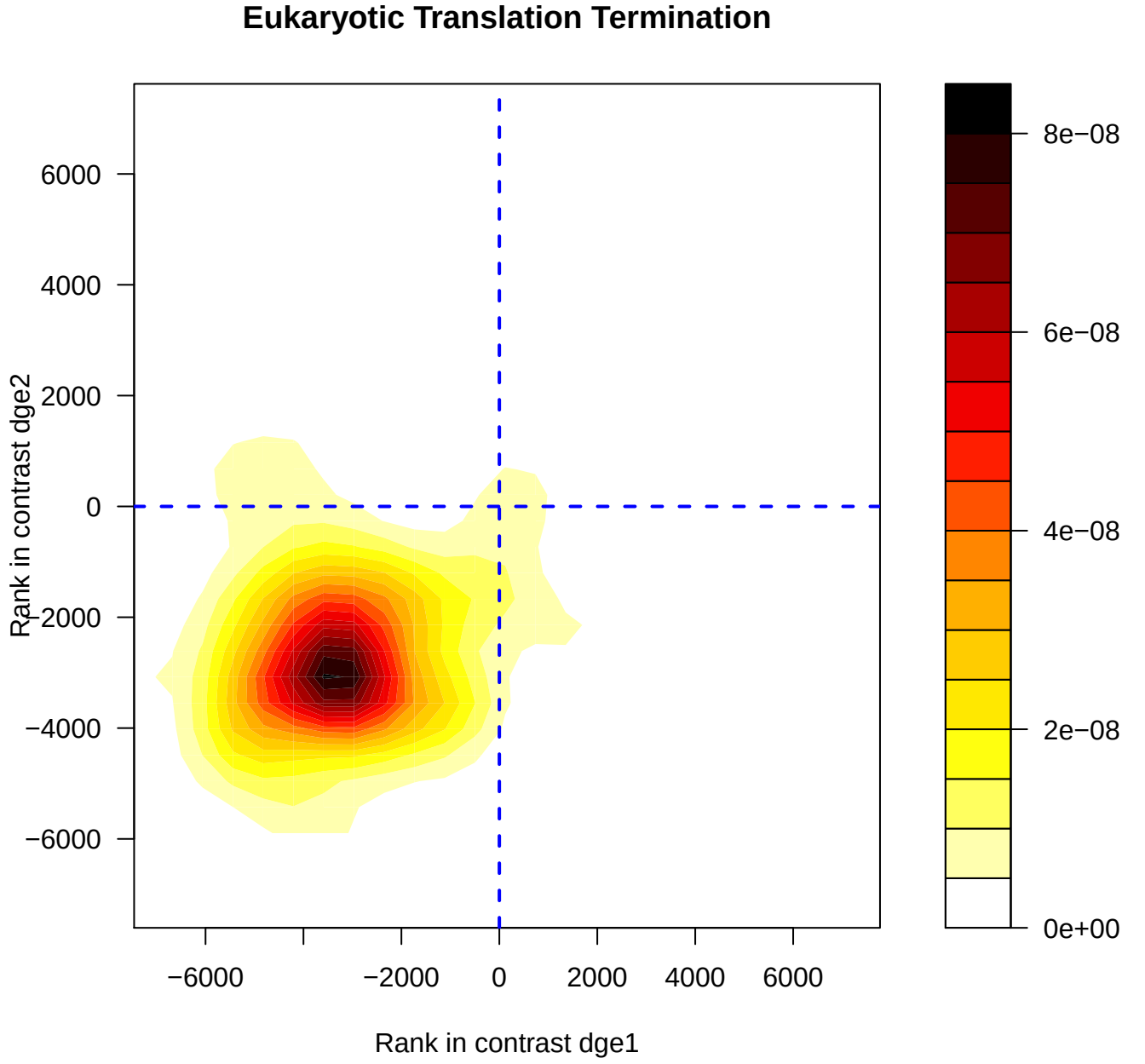

Selenocysteine synthesis
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

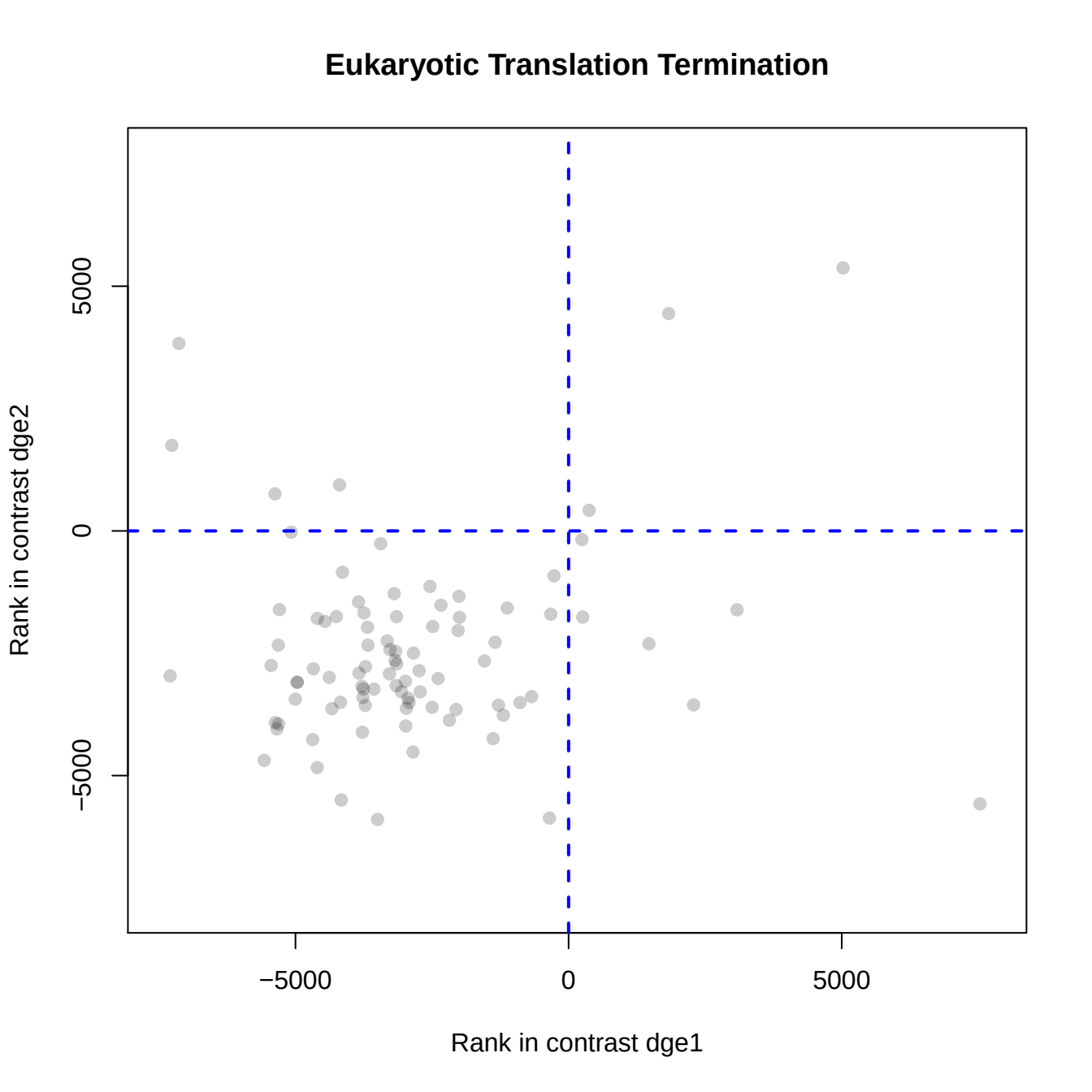

Selenocysteine synthesis
5000
0
−5000
Position in rank
dge1
dge2
Var2

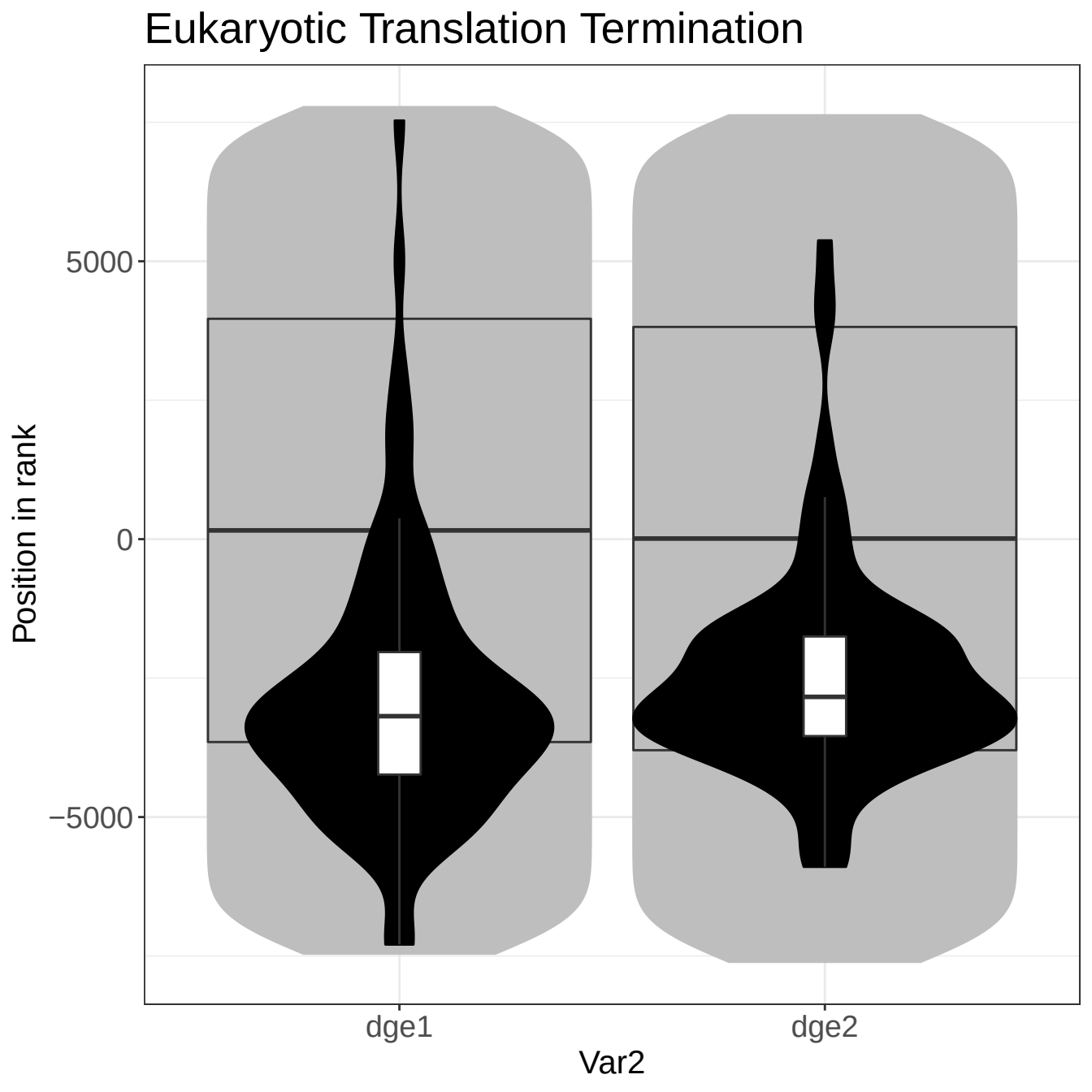

Asparagine N−linked glycosylation
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−09
6e−09
4e−09
2e−09
0e+00

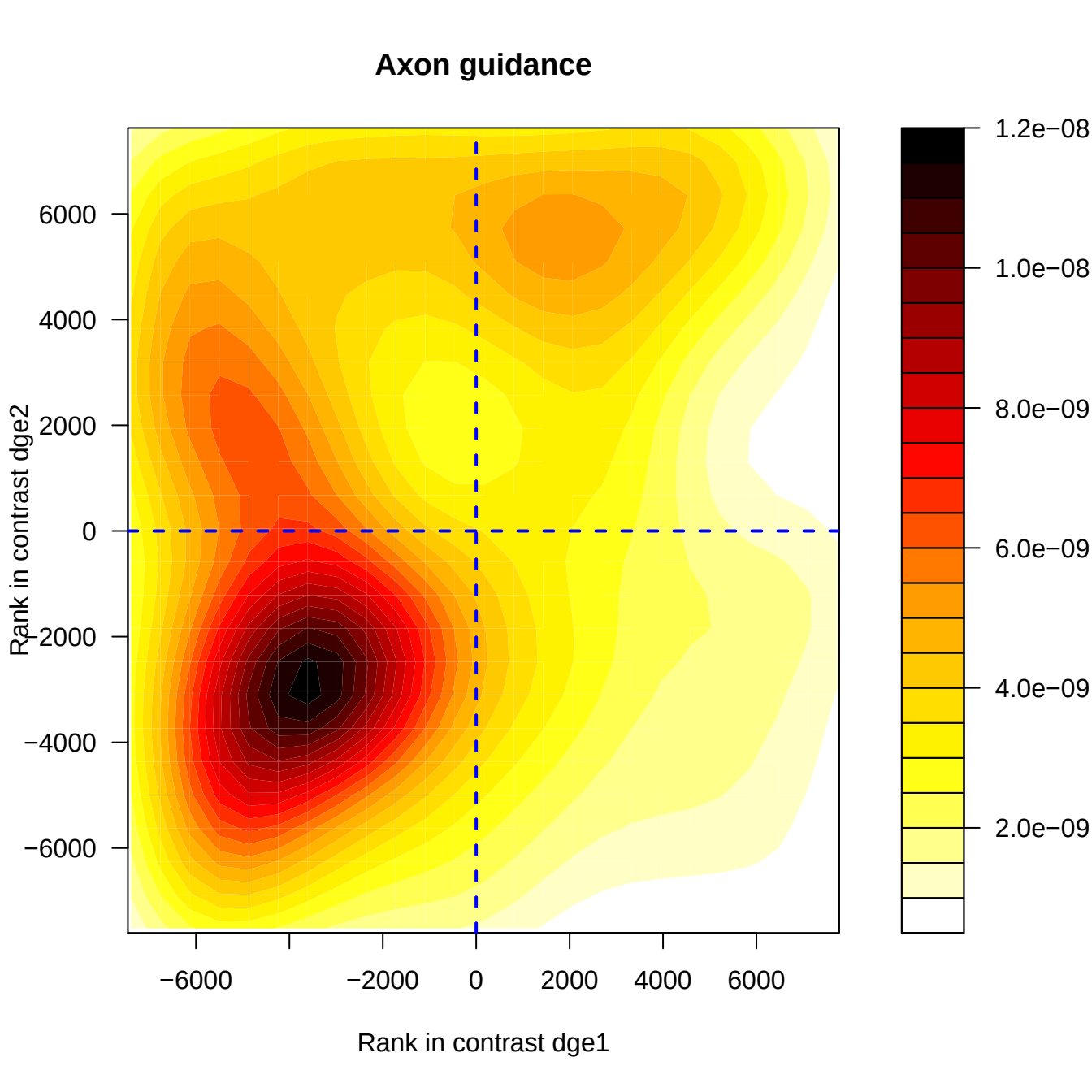

Asparagine N−linked glycosylation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

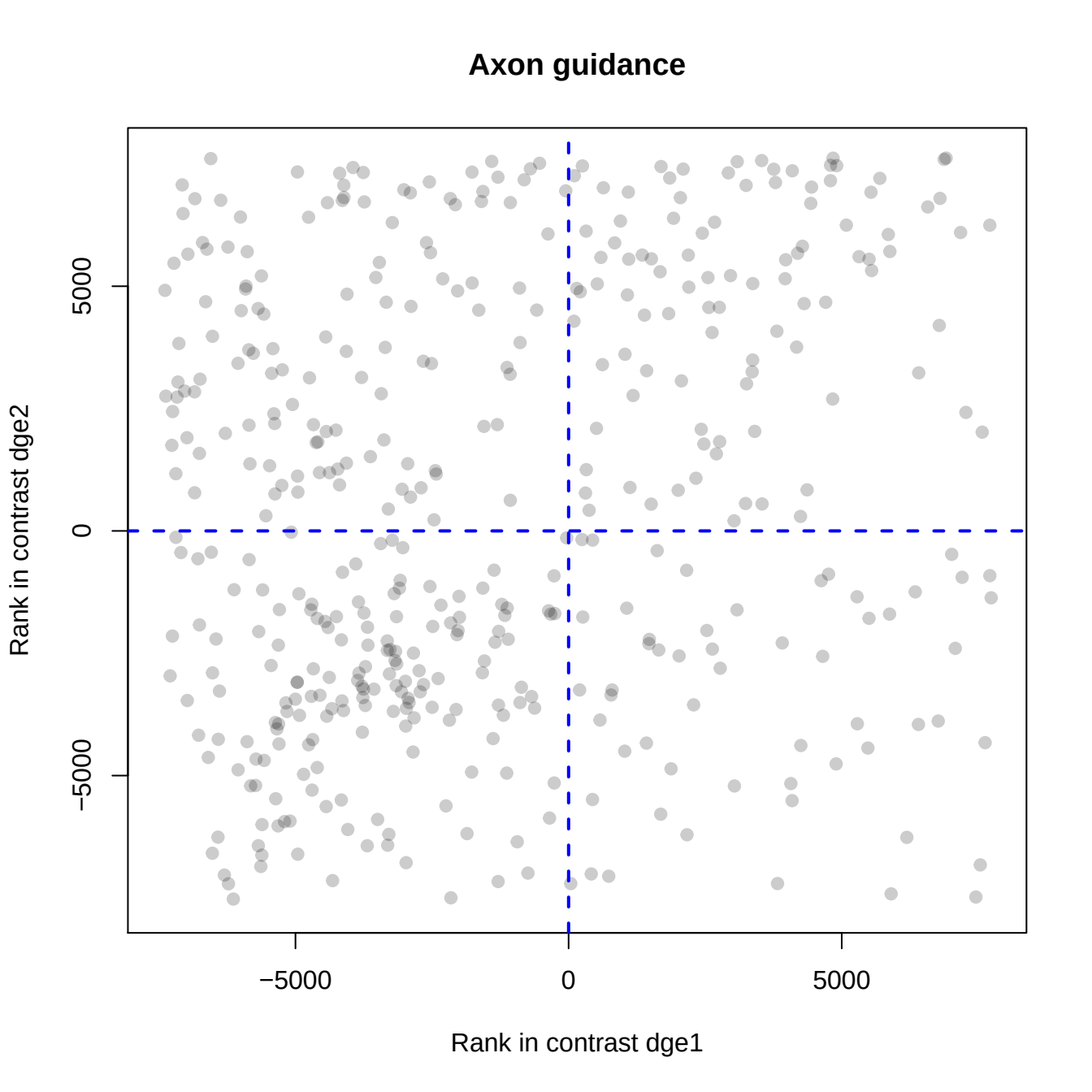

Asparagine N−linked glycosylation
5000
0
−5000
Position in rank
dge1
dge2
Var2

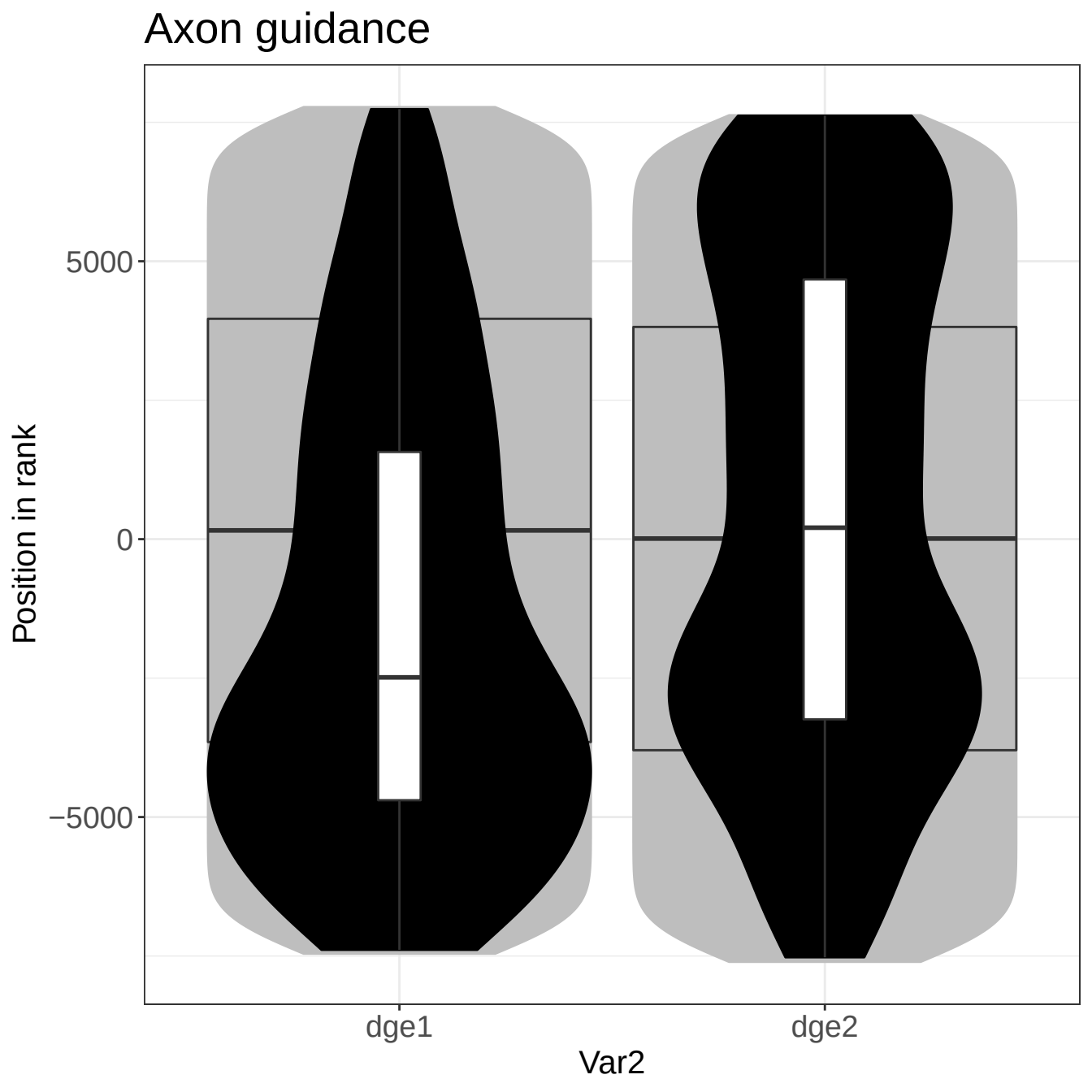

Eukaryotic Translation Termination
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−08
6e−08
4e−08
2e−08
0e+00

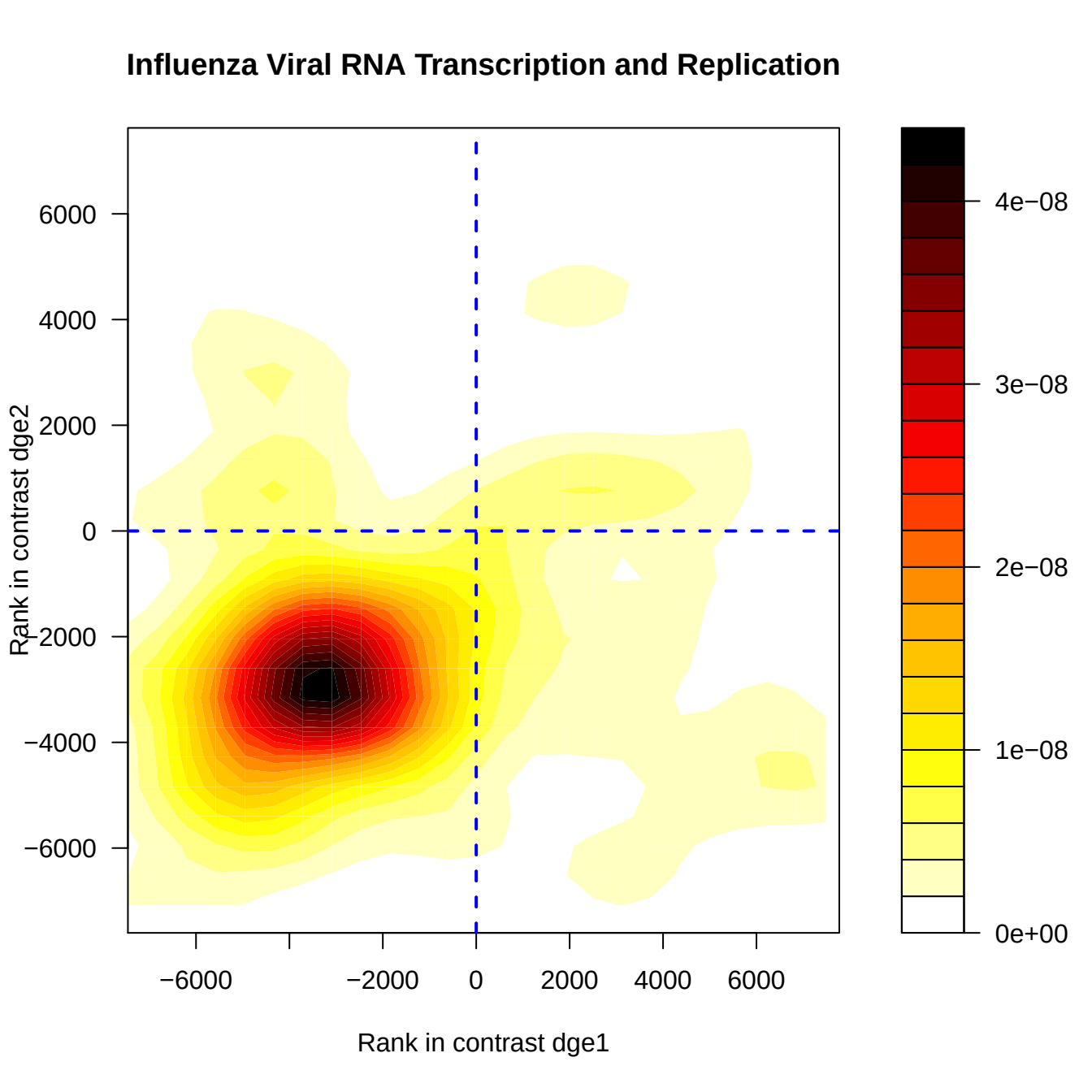

Eukaryotic Translation Termination
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

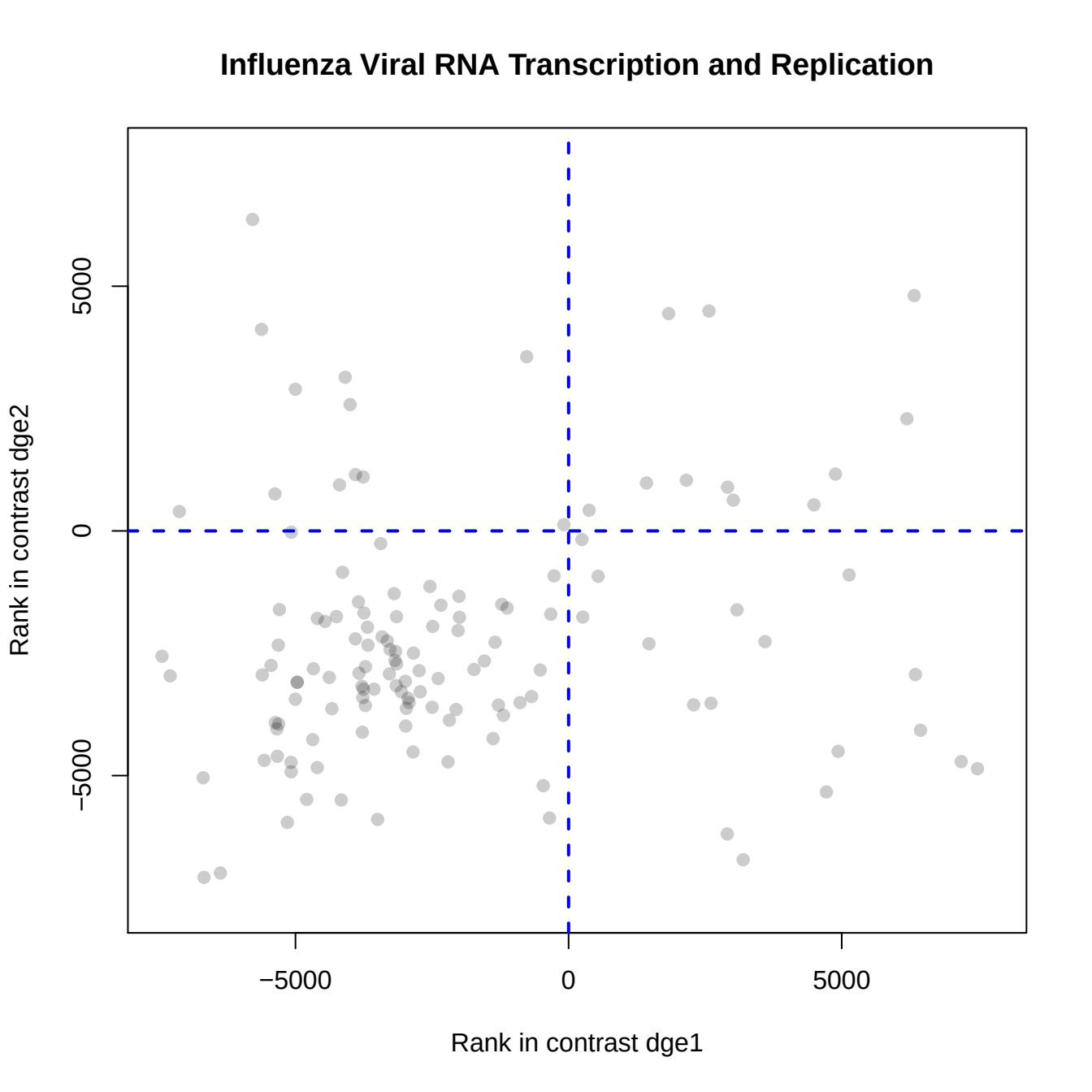

Eukaryotic Translation Termination
Position in rank
5000
0
−5000
dge1
dge2
Var2

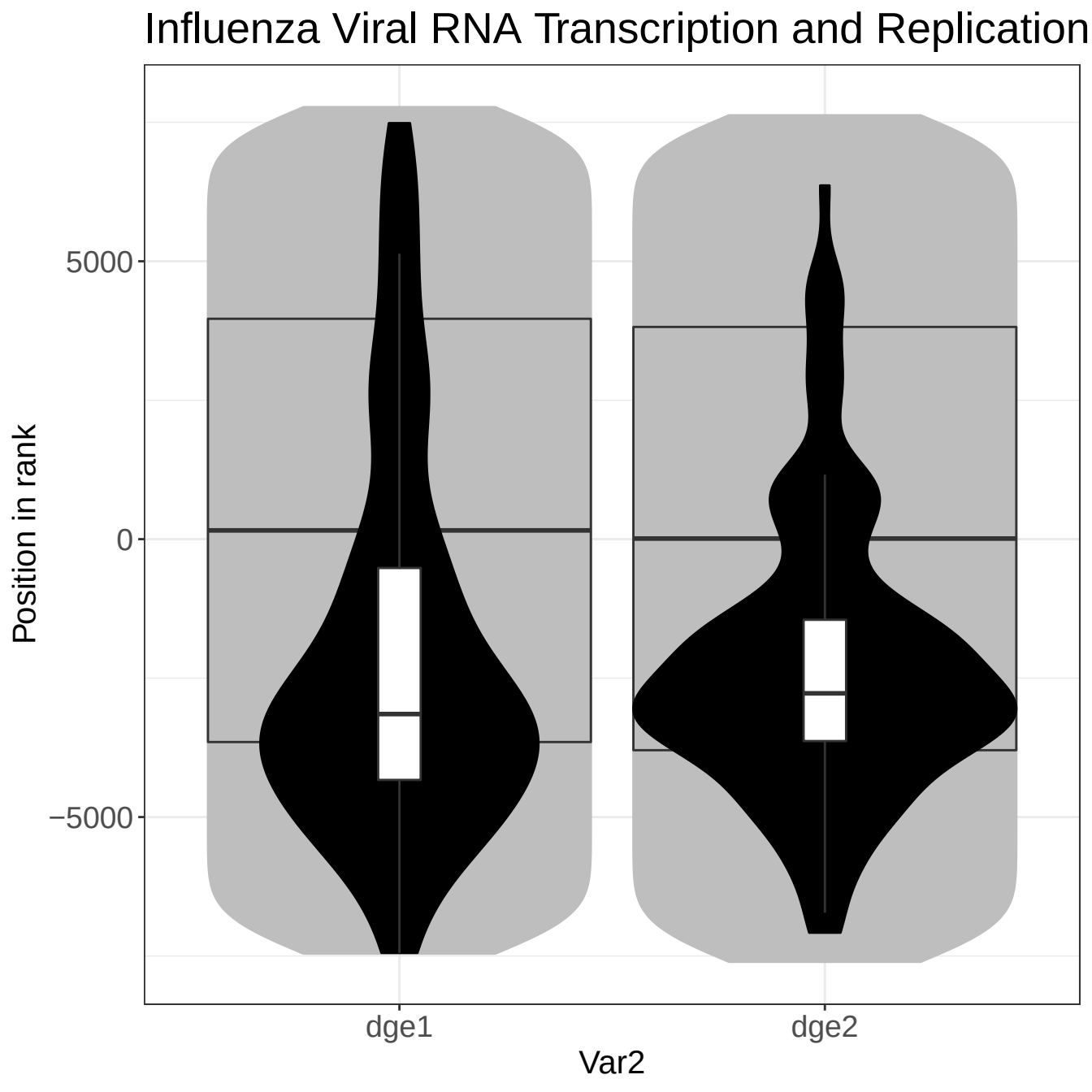

Axon guidance
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09

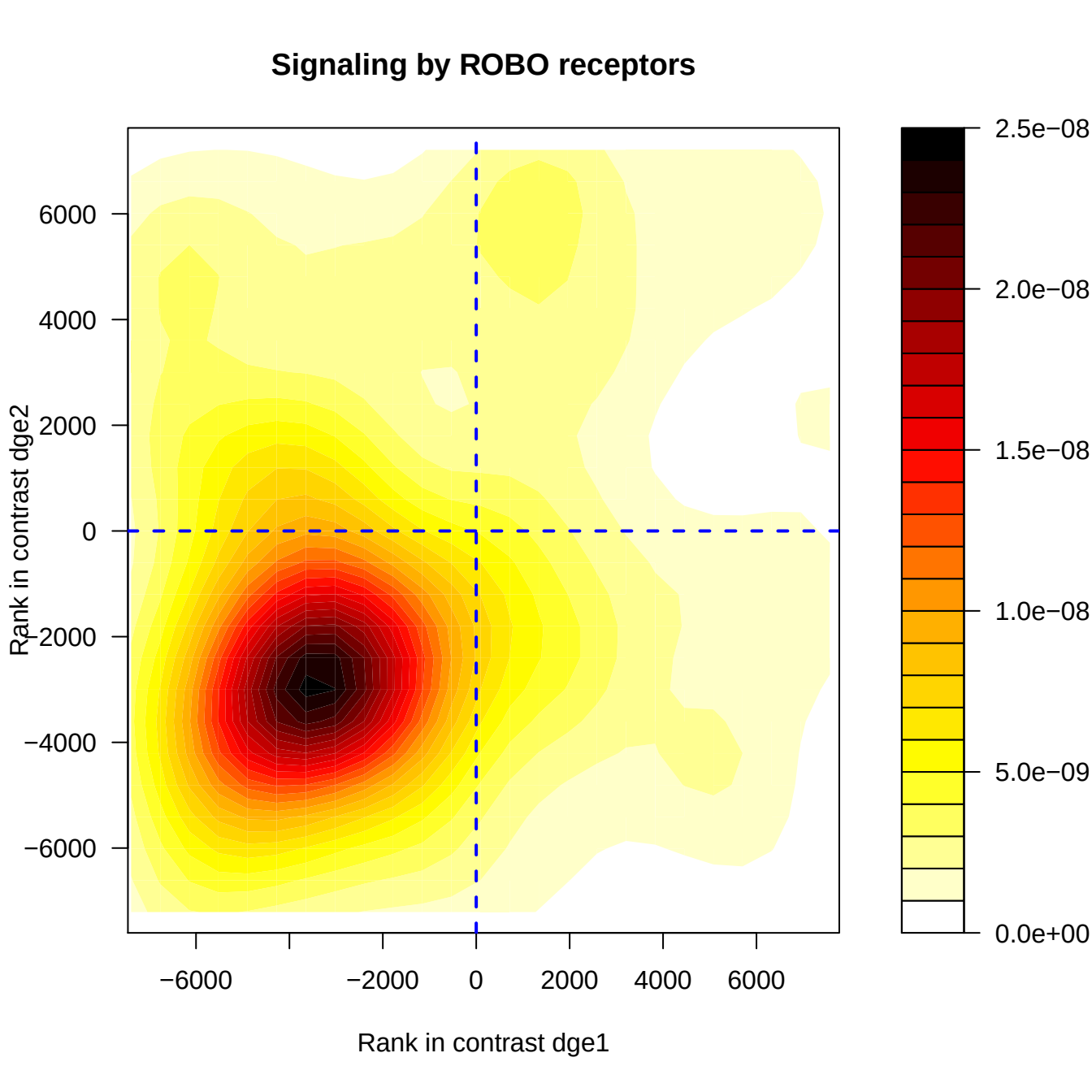

Axon guidance
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1


Axon guidance
5000
0
−5000
Position in rank
dge1
dge2
Var2

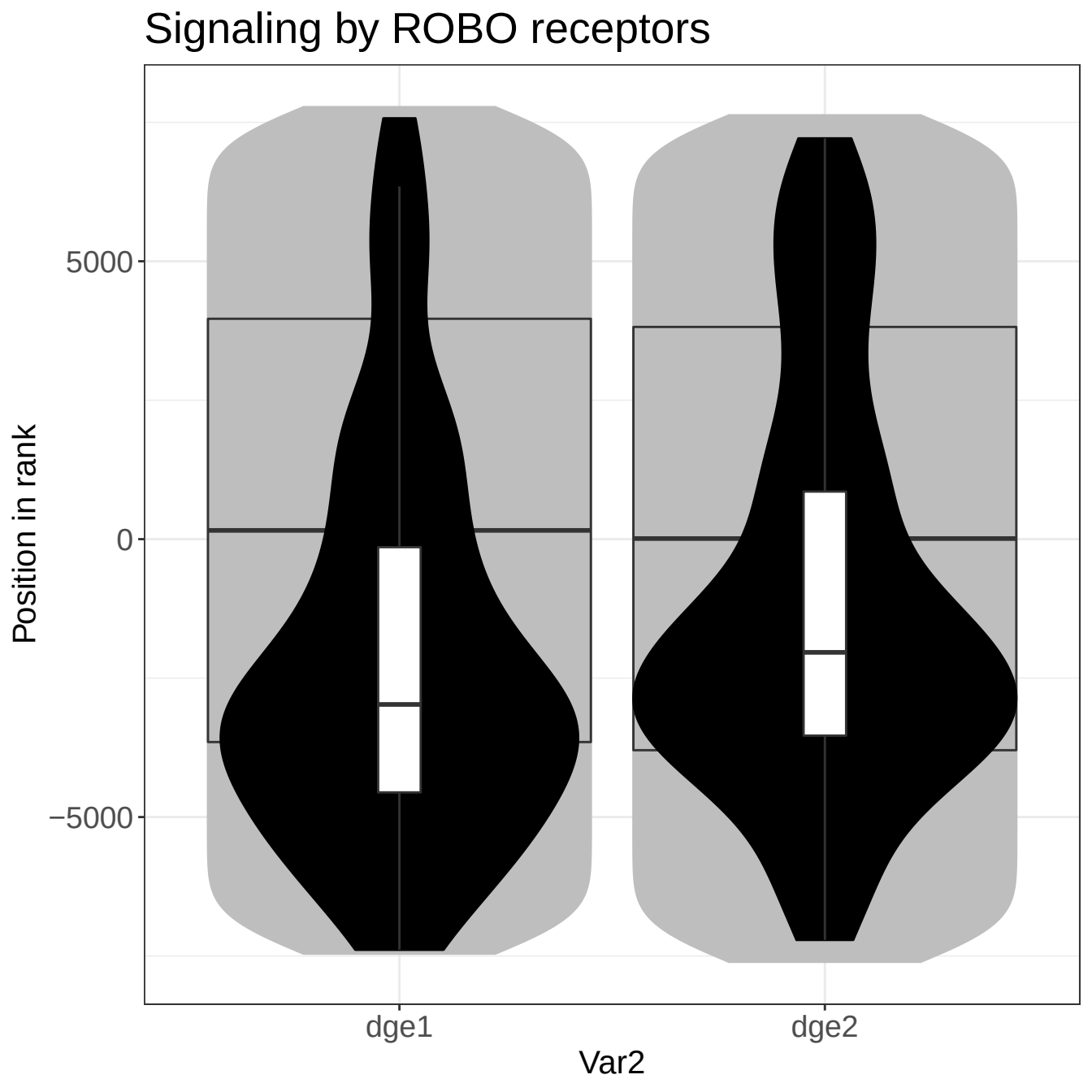

Influenza Viral RNA Transcription and Replication
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
4e−08
3e−08
2e−08
1e−08
0e+00

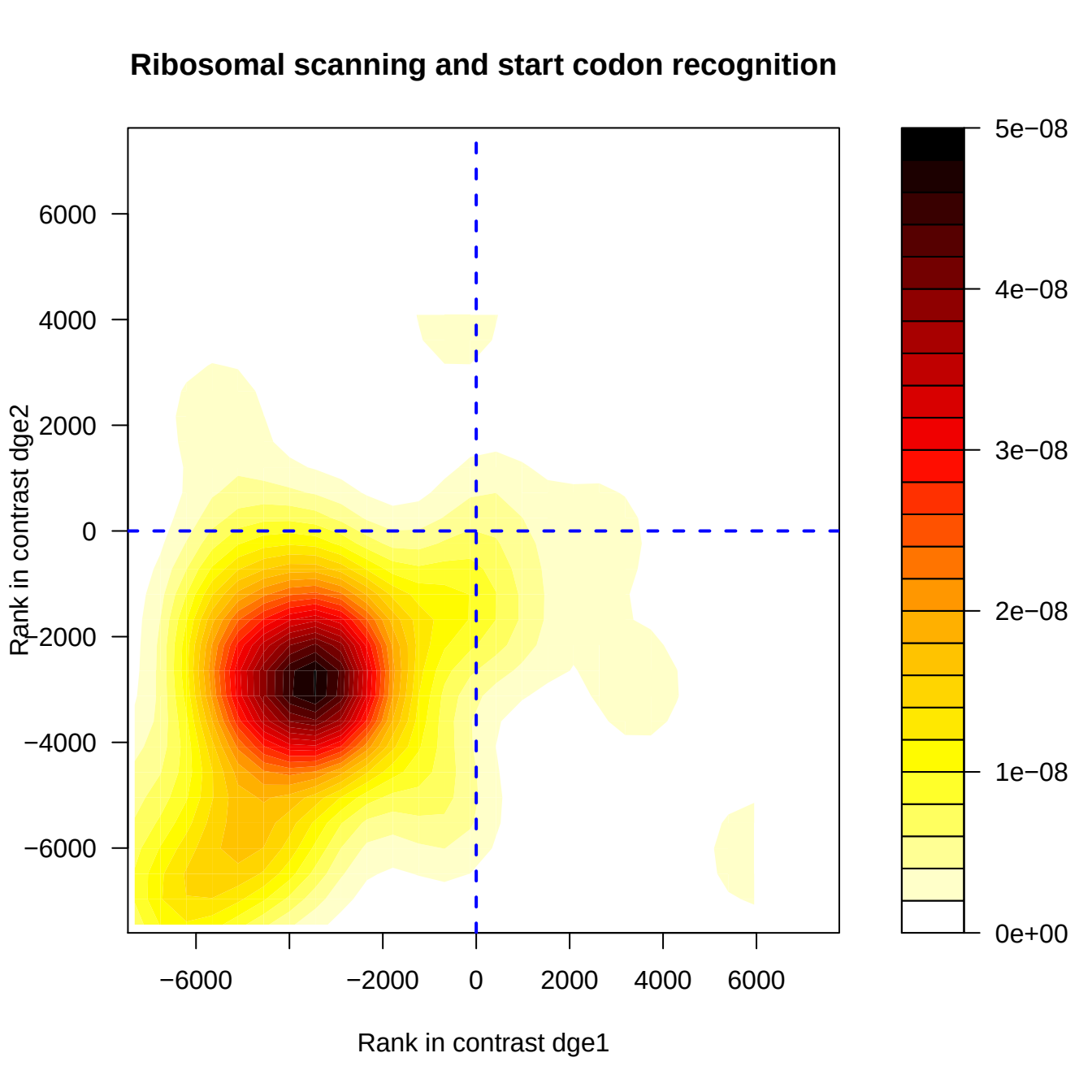

Influenza Viral RNA Transcription and Replication
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

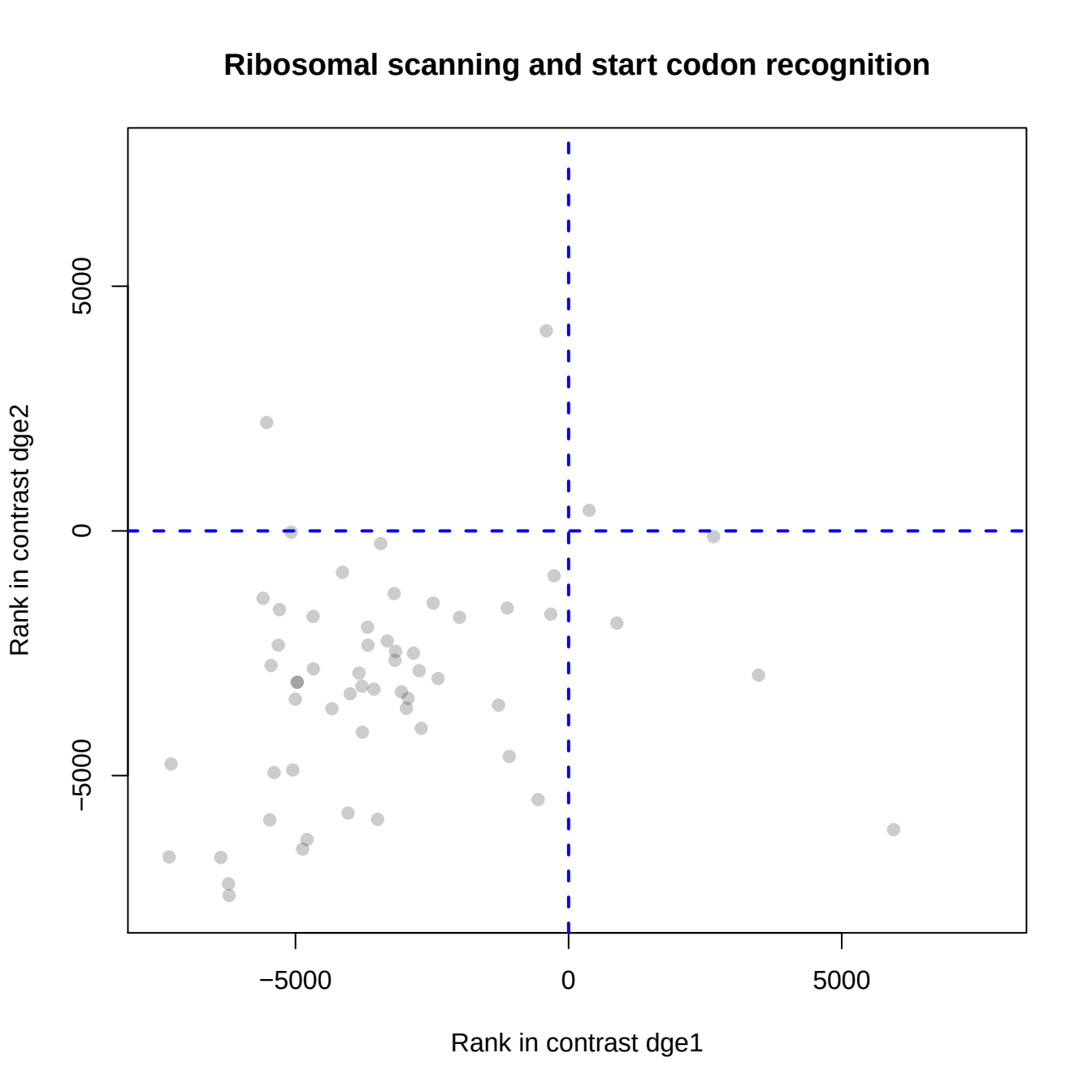

Influenza Viral RNA Transcription and Replication
Position in rank
5000
0
−5000
dge1
dge2
Var2

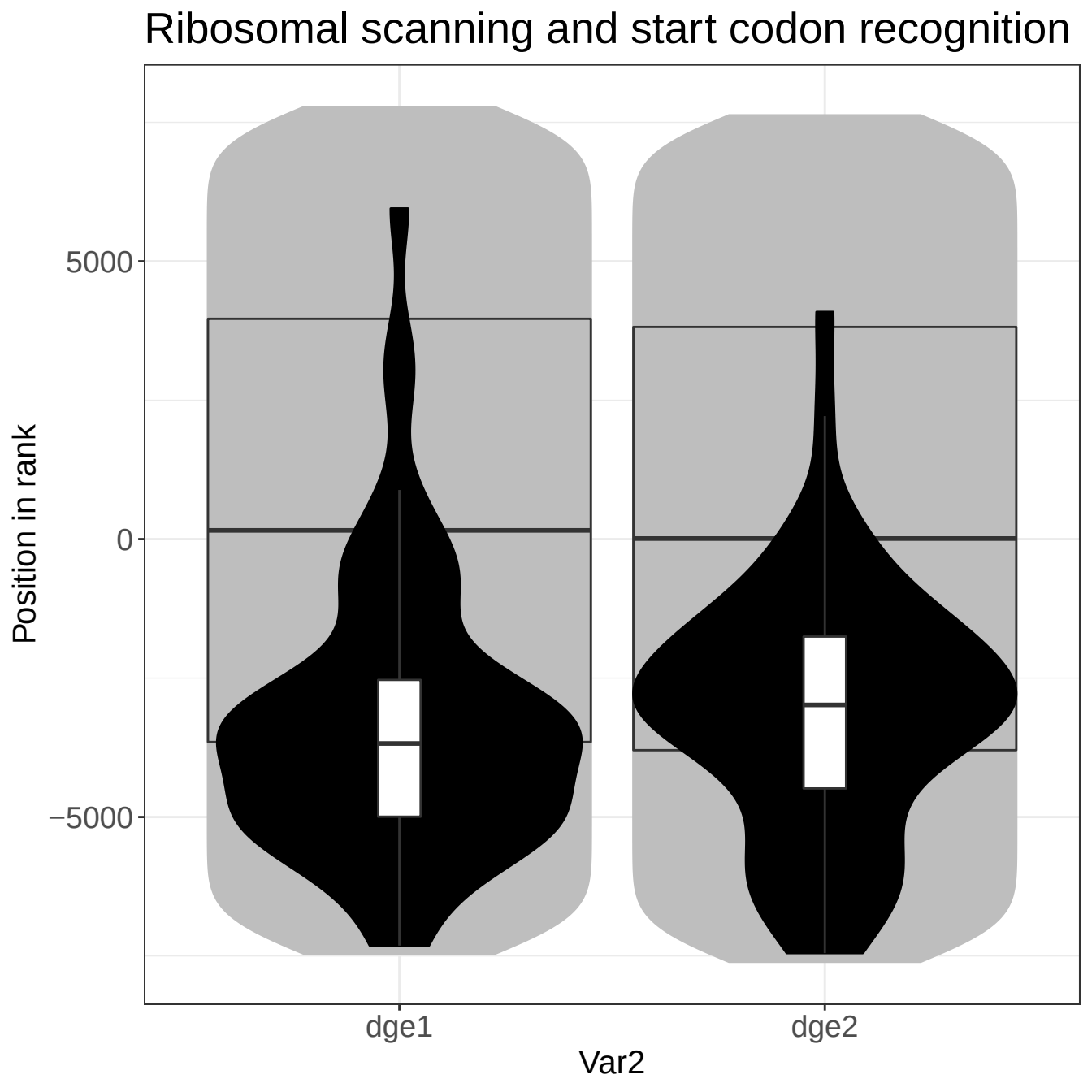

Signaling by ROBO receptors
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

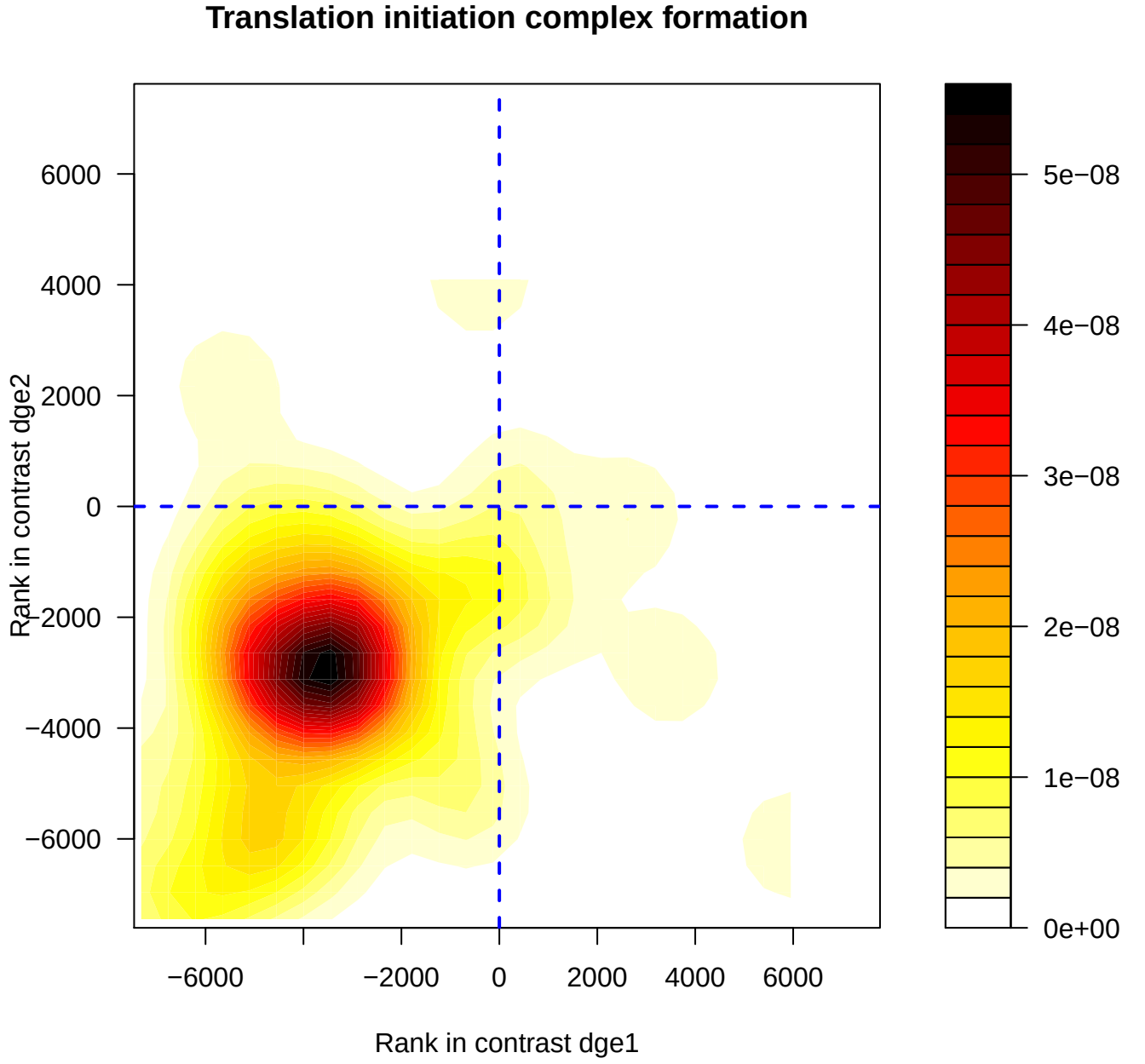

Signaling by ROBO receptors
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

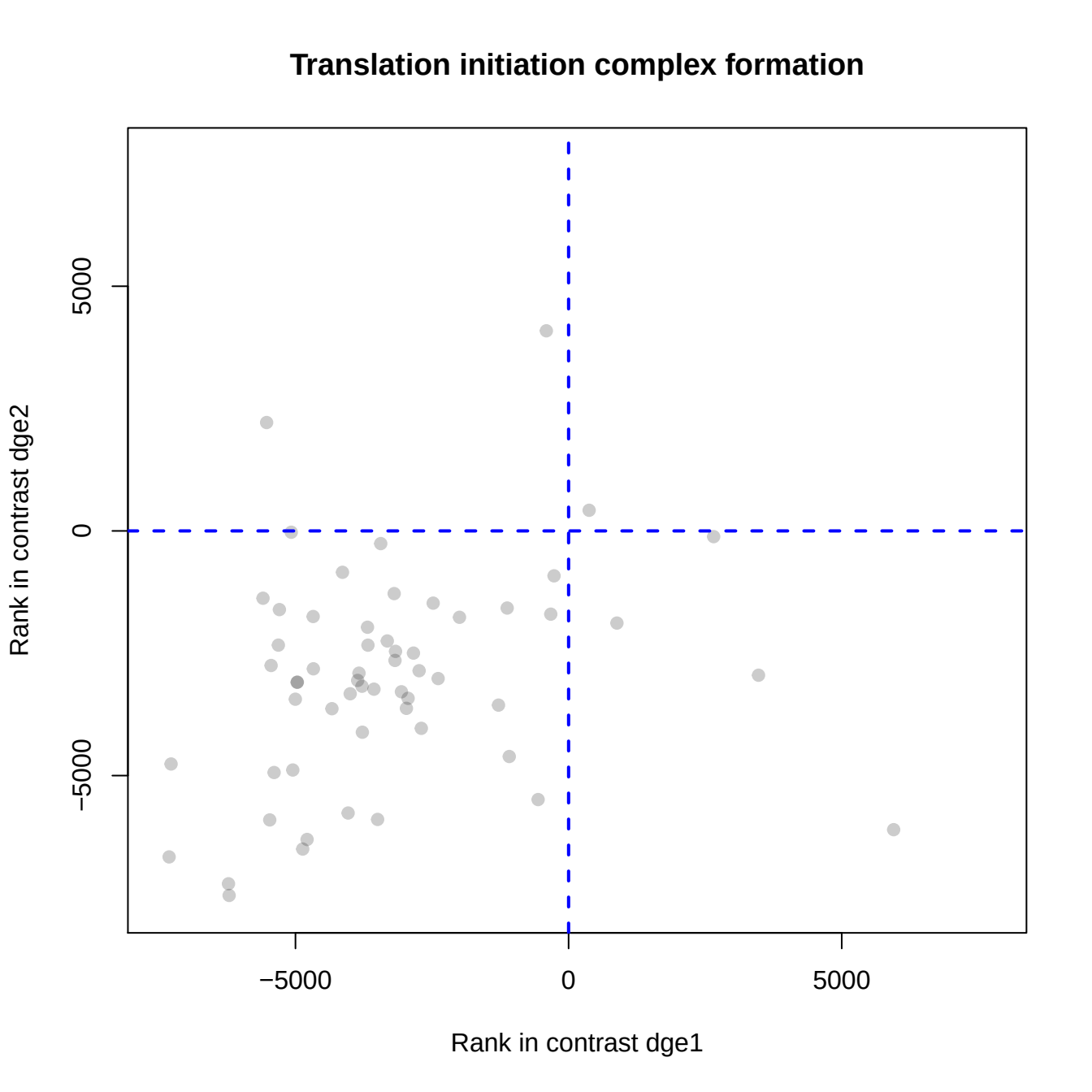

Signaling by ROBO receptors
5000
0
−5000
Position in rank
dge1
dge2
Var2

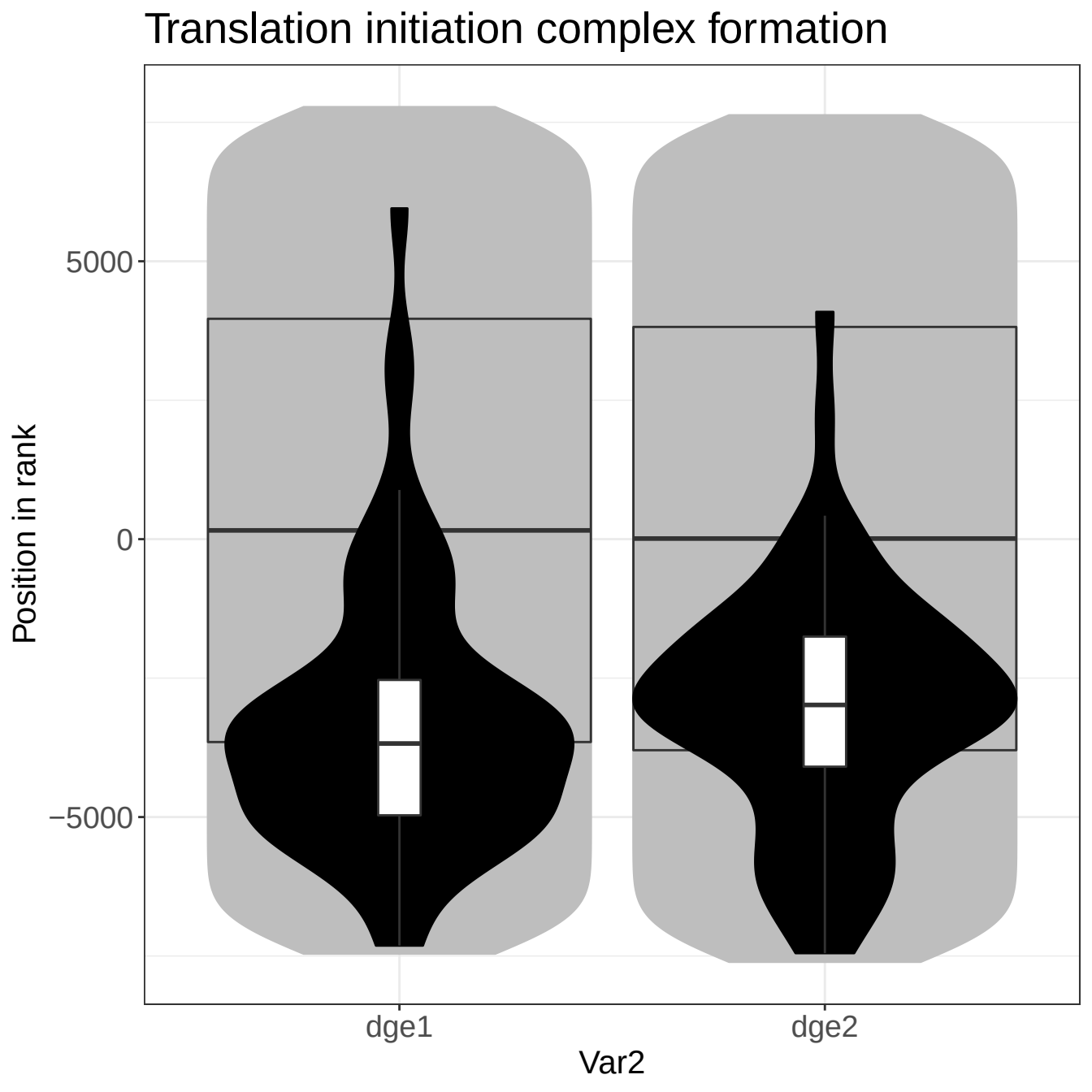

Ribosomal scanning and start codon recognition
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

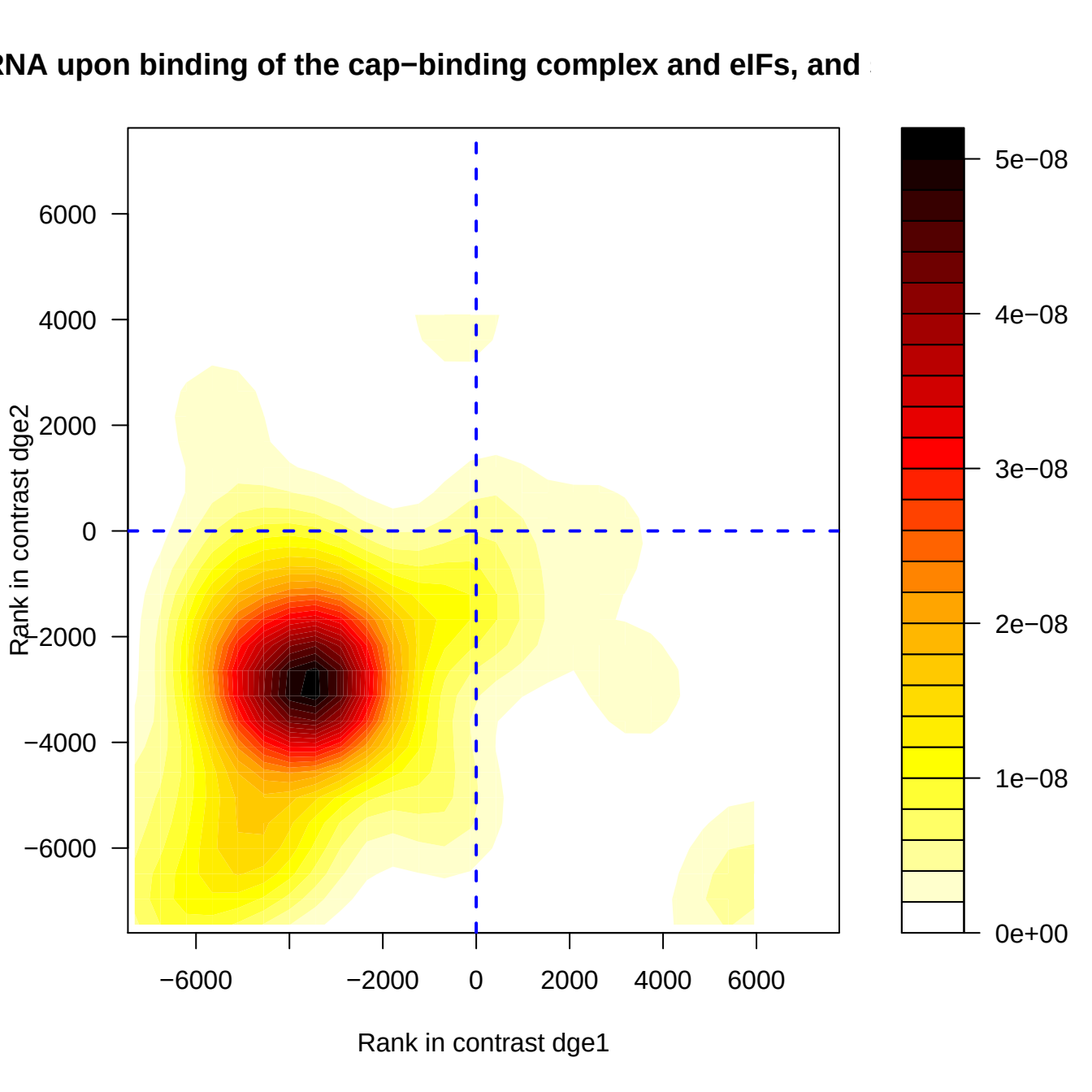

Ribosomal scanning and start codon recognition
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

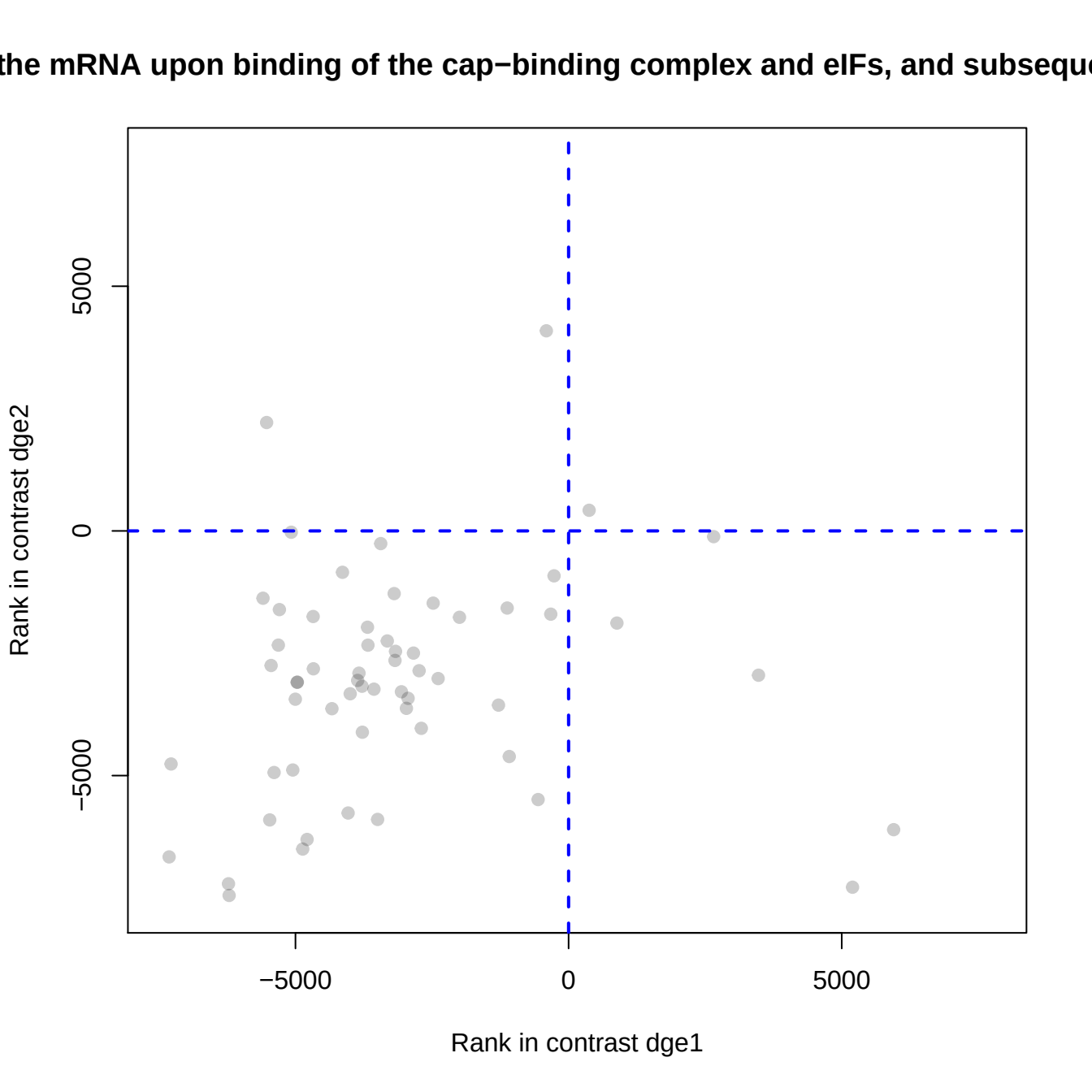

Ribosomal scanning and start codon recognition
5000
0
−5000
Position in rank
dge1
dge2
Var2

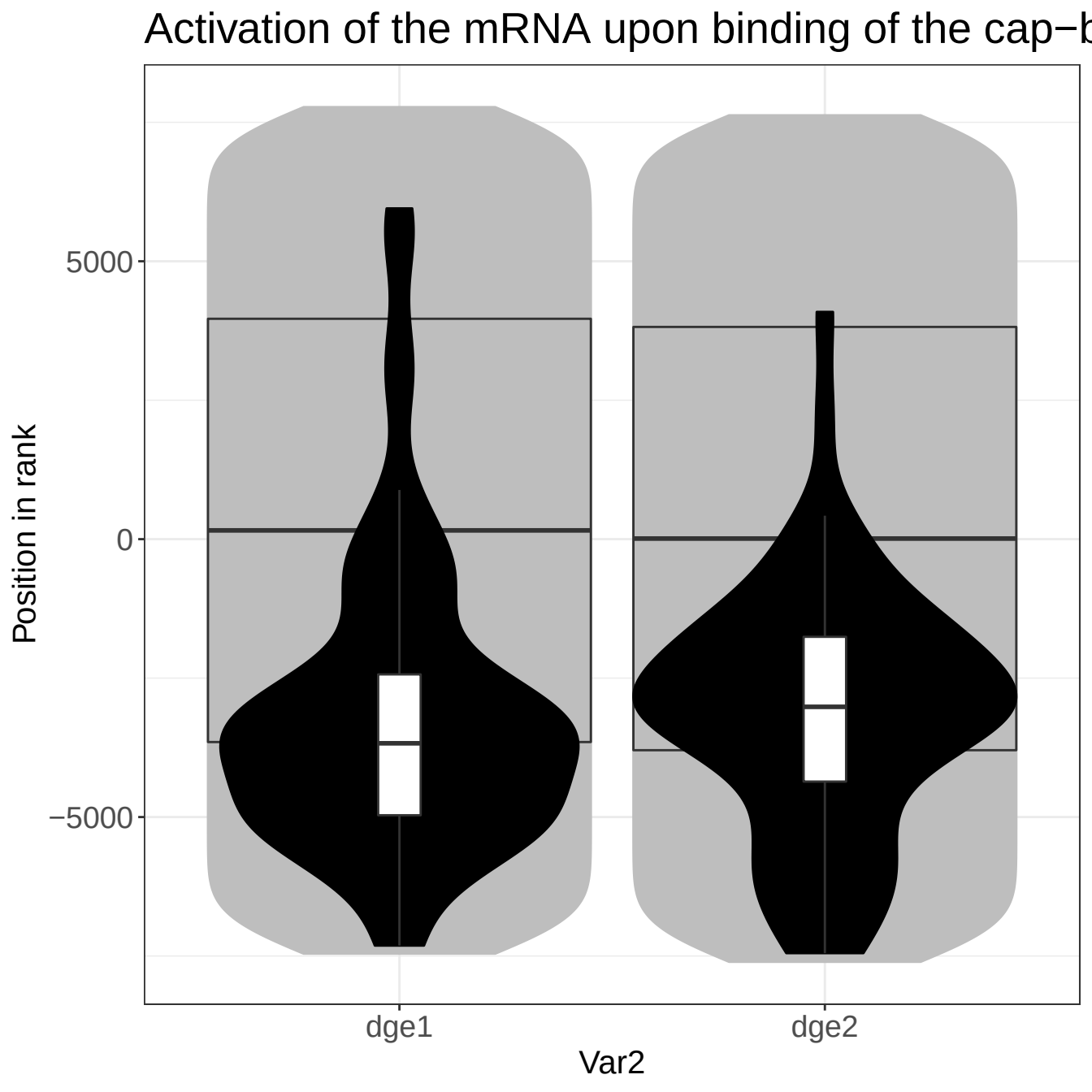

Translation initiation complex formation
Rank in contrast dge2
Rank in contrast dge1
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

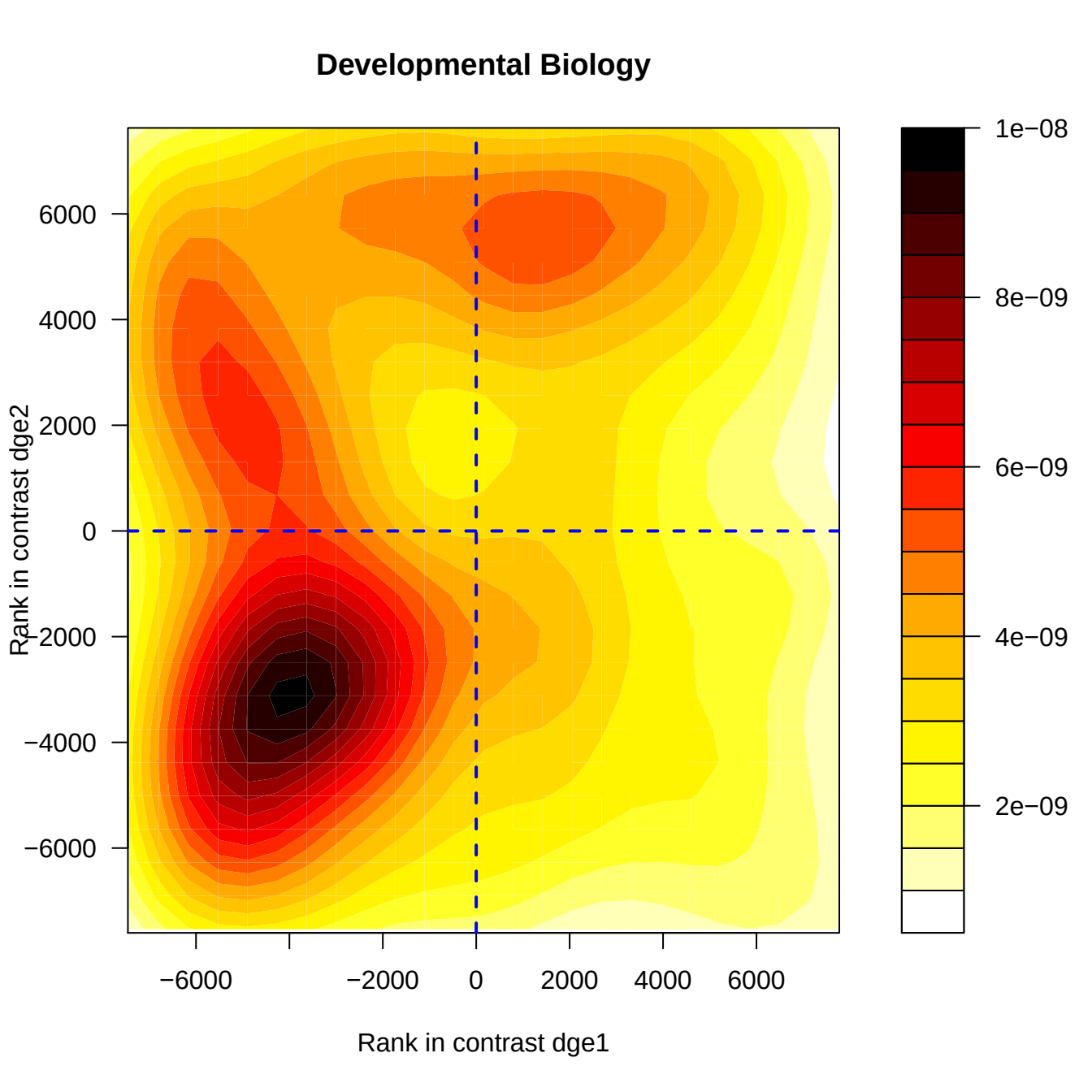

Translation initiation complex formation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

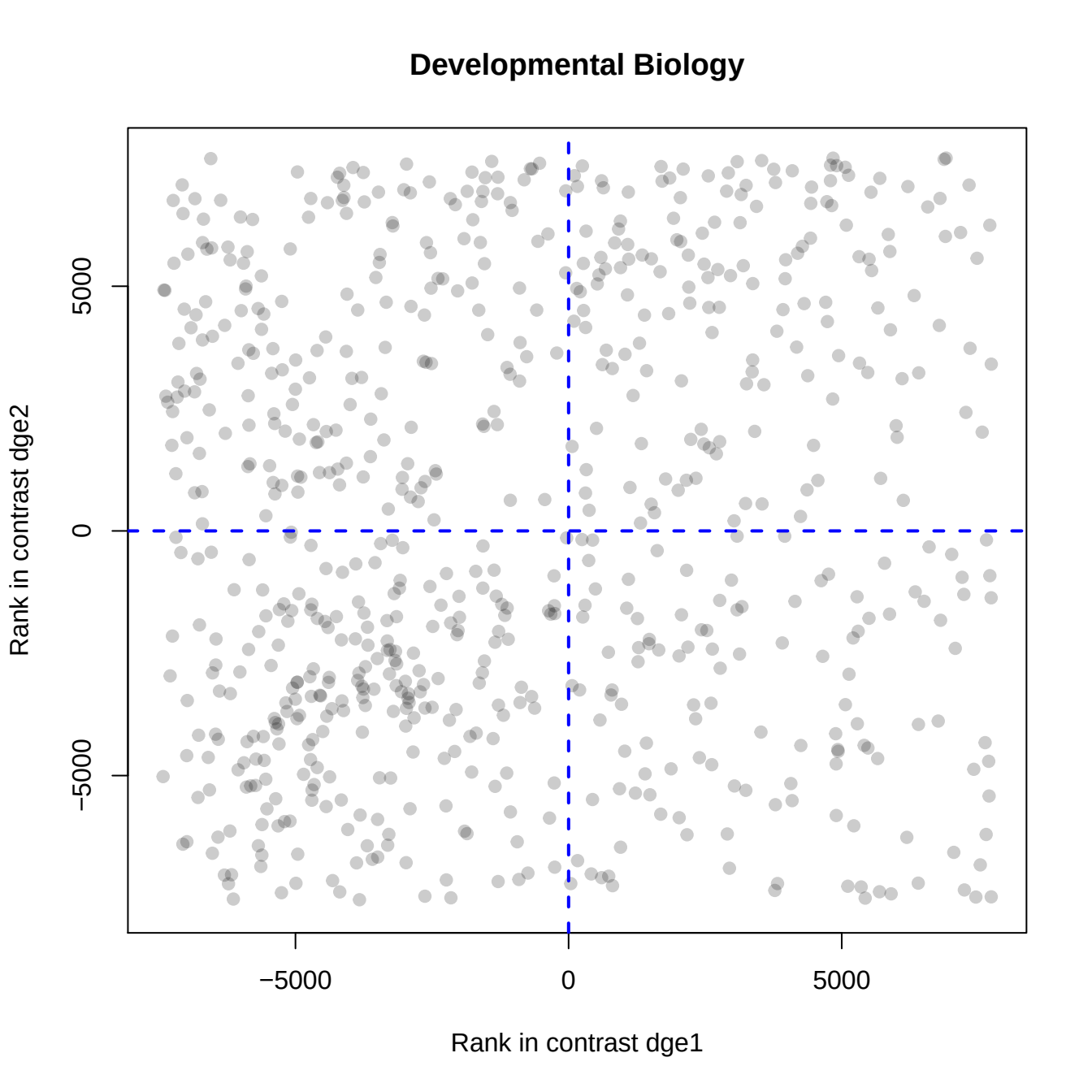

Translation initiation complex formation
5000
0
−5000
Position in rank
dge1
dge2
Var2

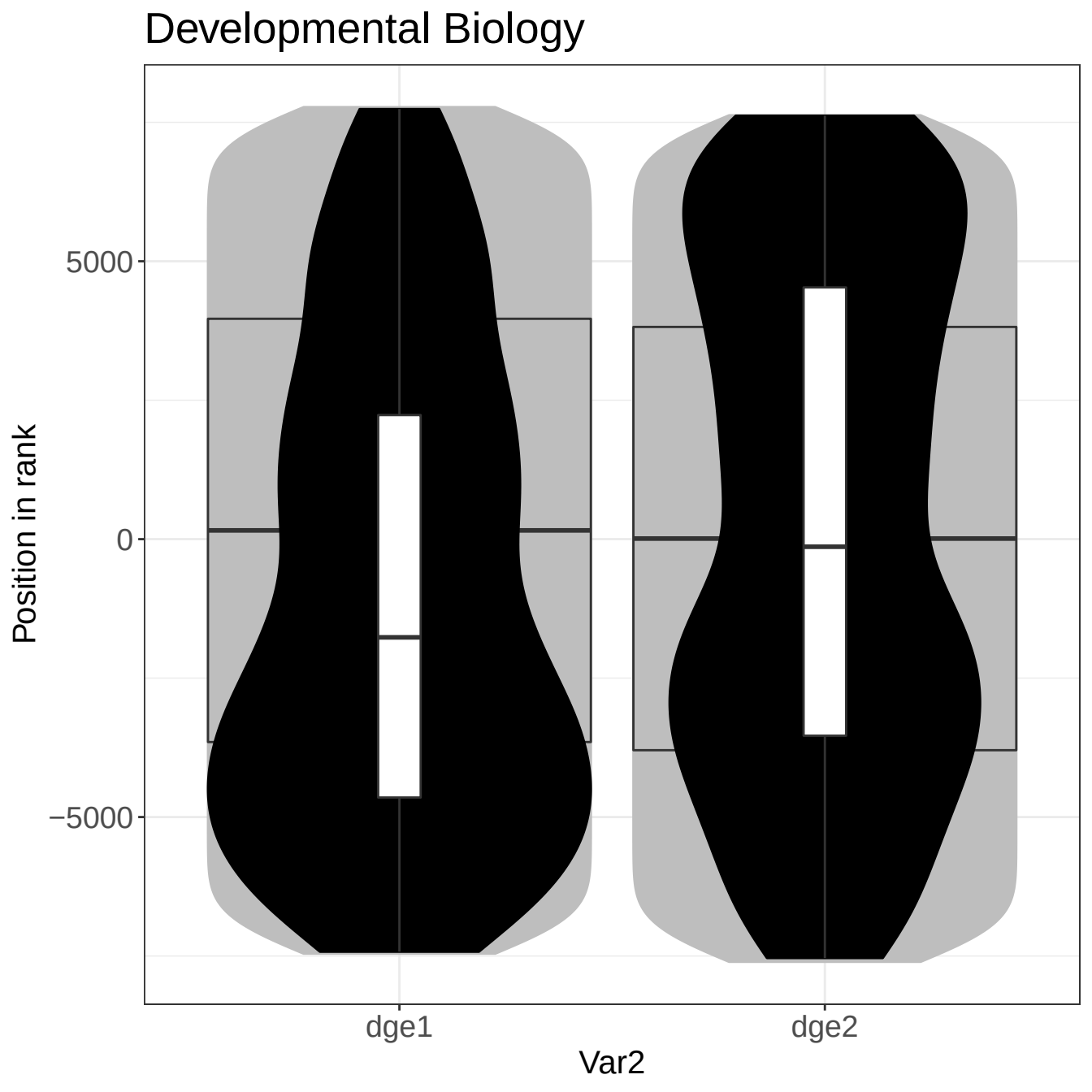

RNA upon binding of the cap−binding complex and eIFs, and
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

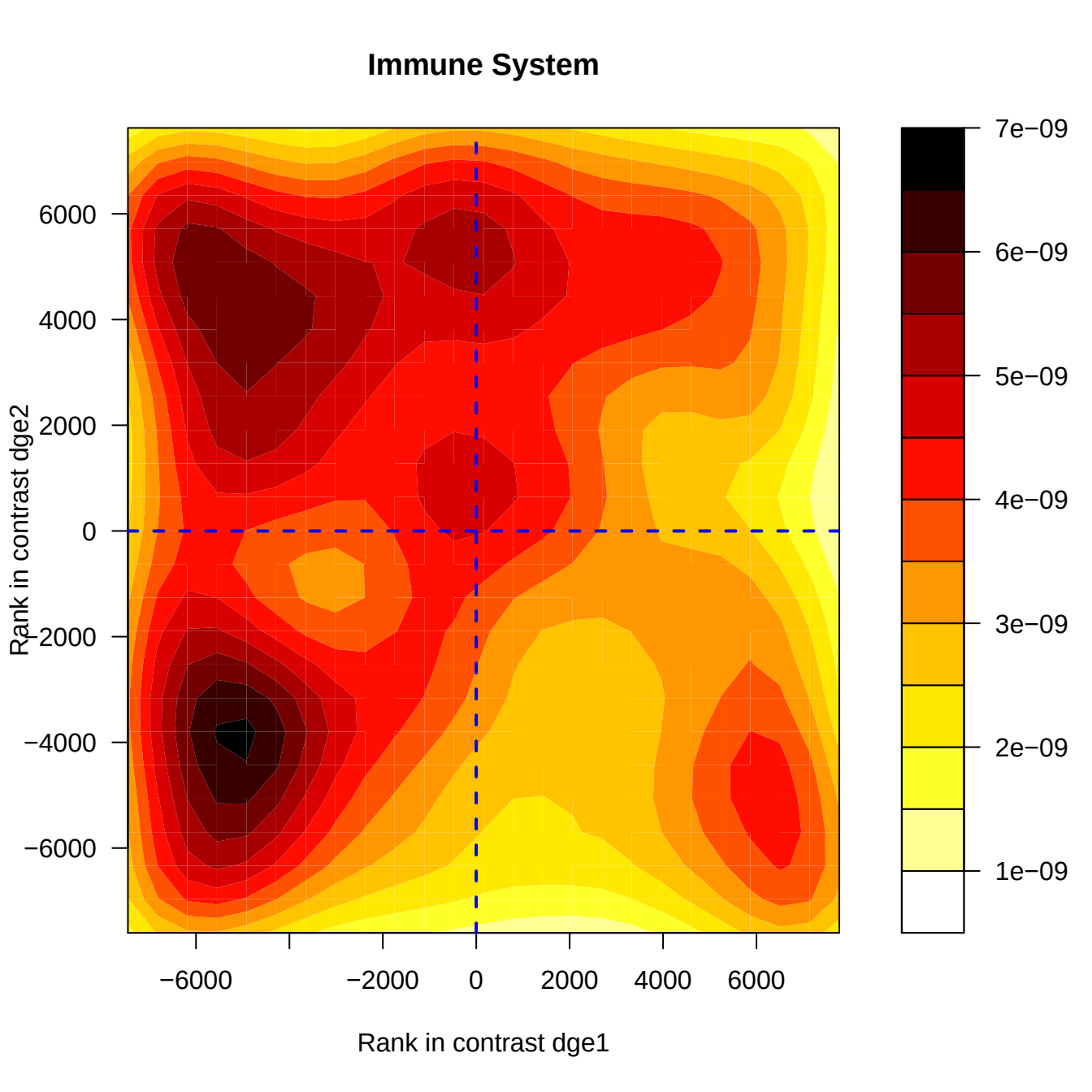

the mRNA upon binding of the cap−binding complex and eIFs, and subseque
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

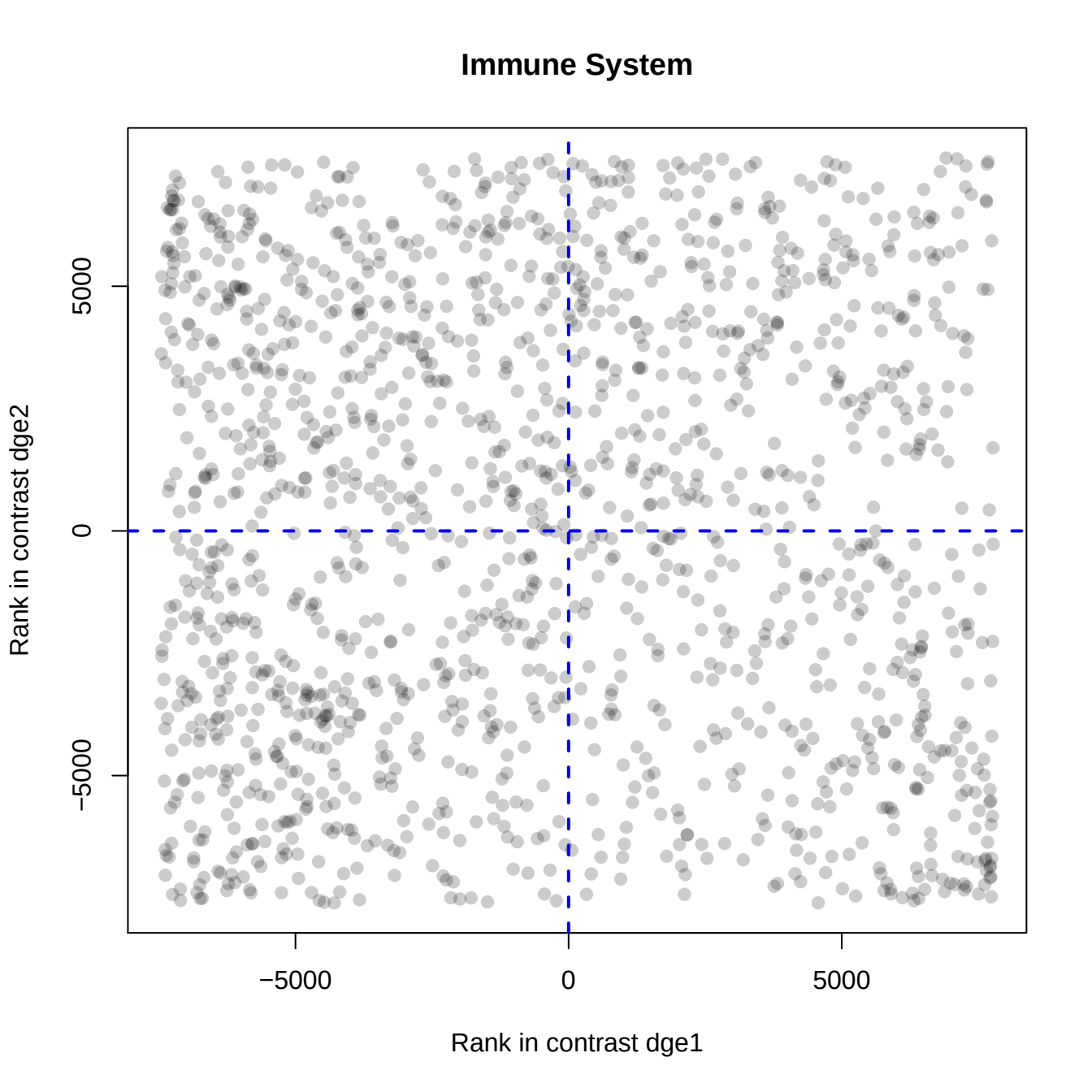

Activation of the mRNA upon binding of the cap−b
5000
0
−5000
Position in rank
dge1
dge2
Var2

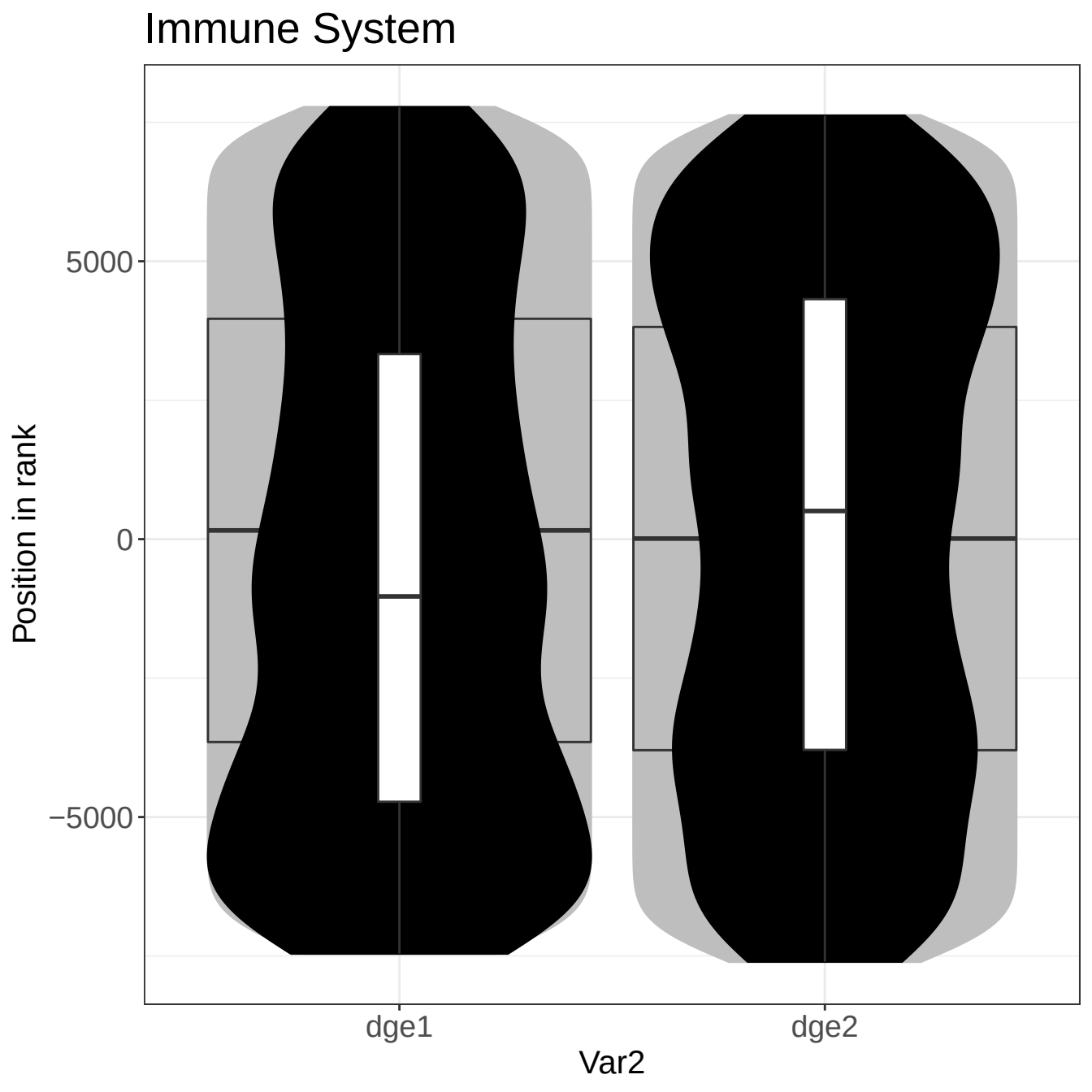

Developmental Biology
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1e−08
8e−09
6e−09
4e−09
2e−09

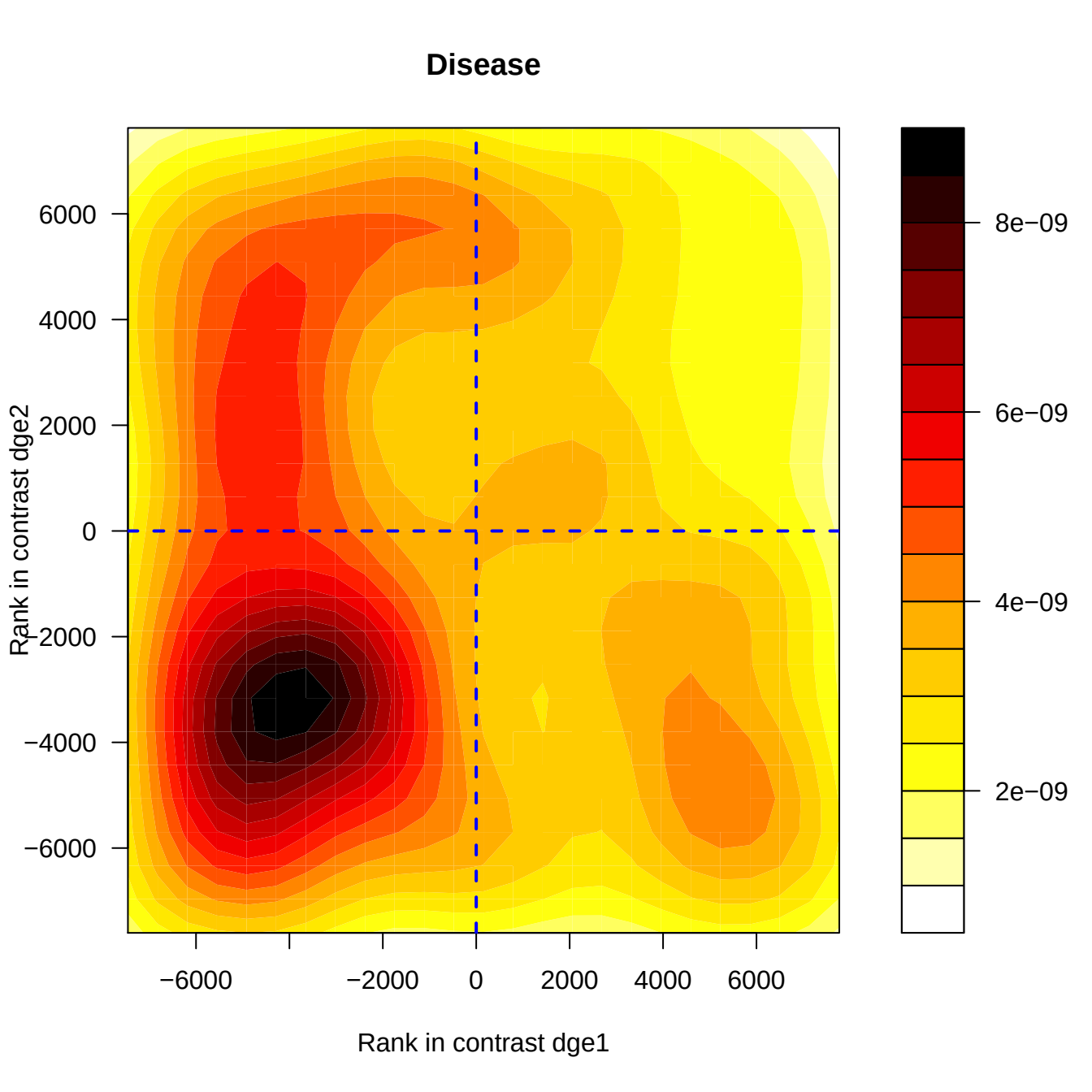

Developmental Biology
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

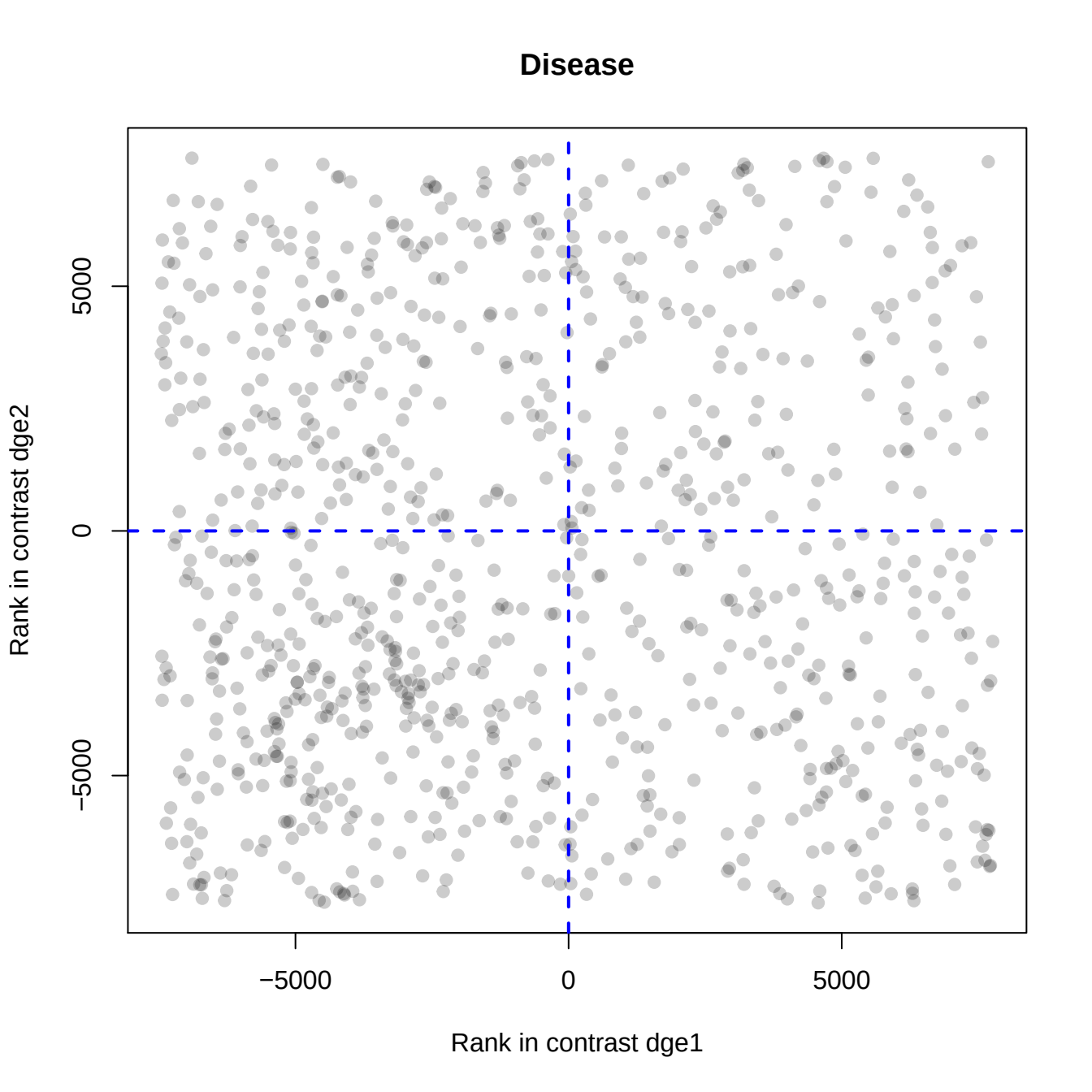

Developmental Biology
5000
0
−5000
Position in rank
dge1
dge2
Var2

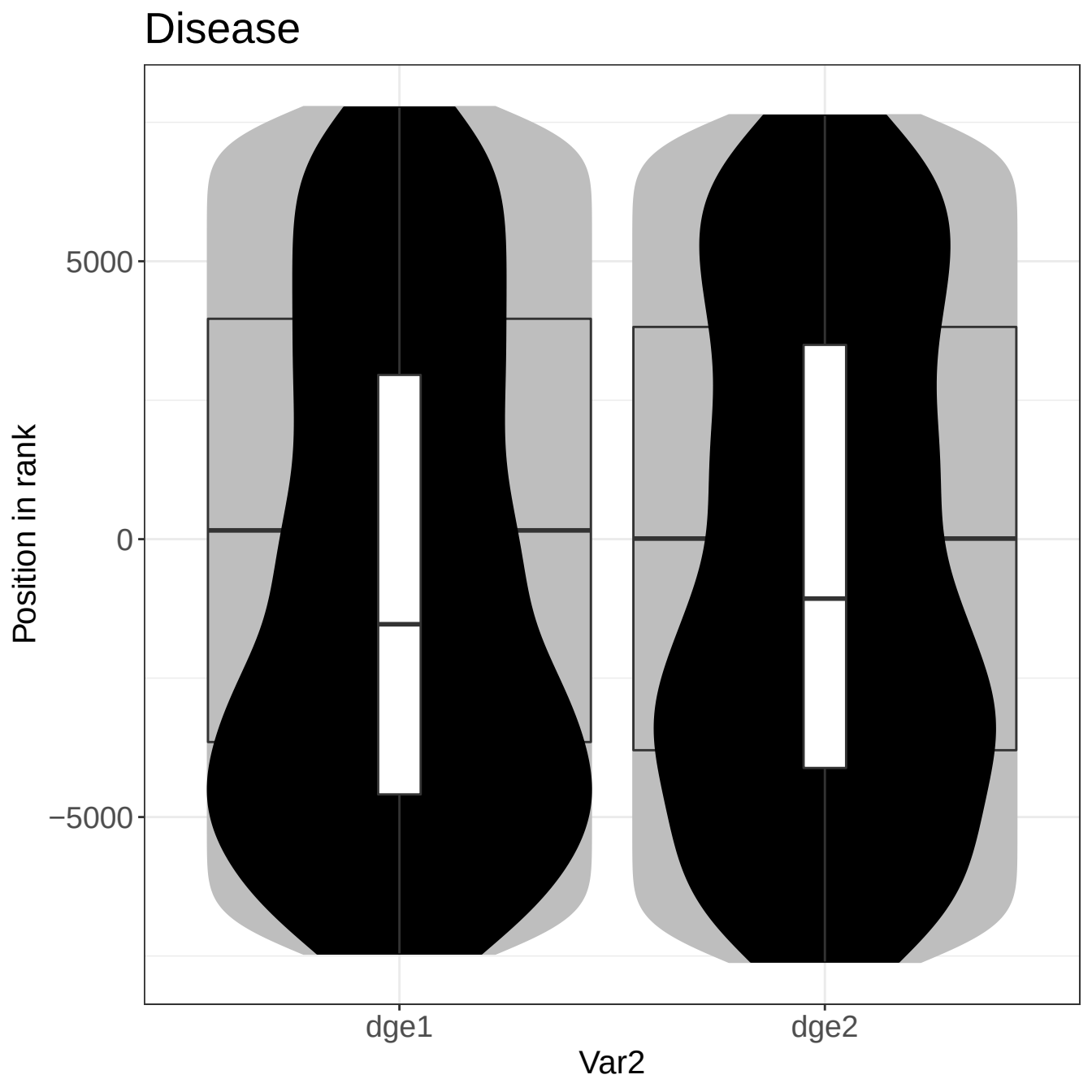

Immune System
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
7e−09
6e−09
5e−09
4e−09
3e−09
2e−09
1e−09

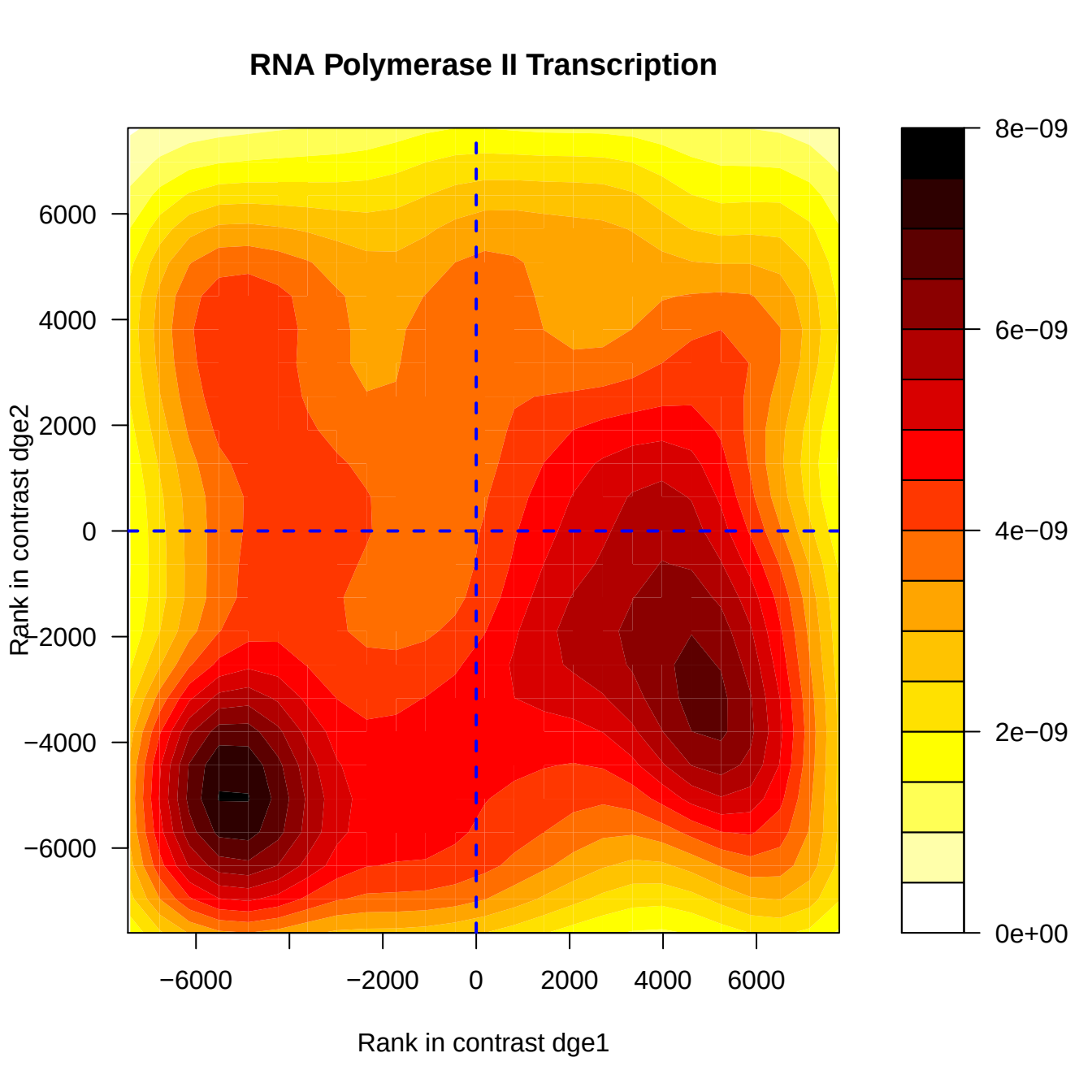

Immune System
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

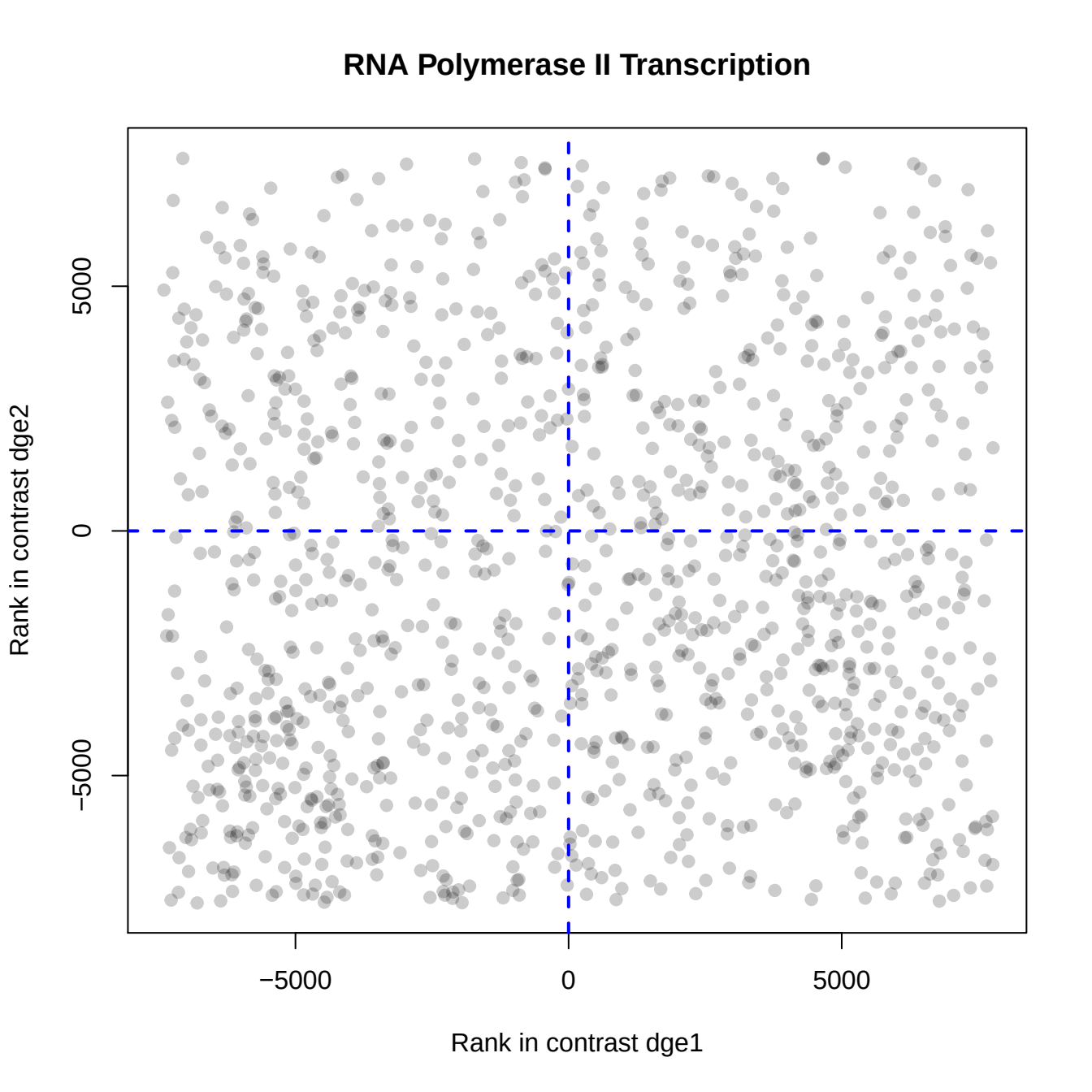

Immune System
5000
0
−5000
Position in rank
dge1
dge2
Var2

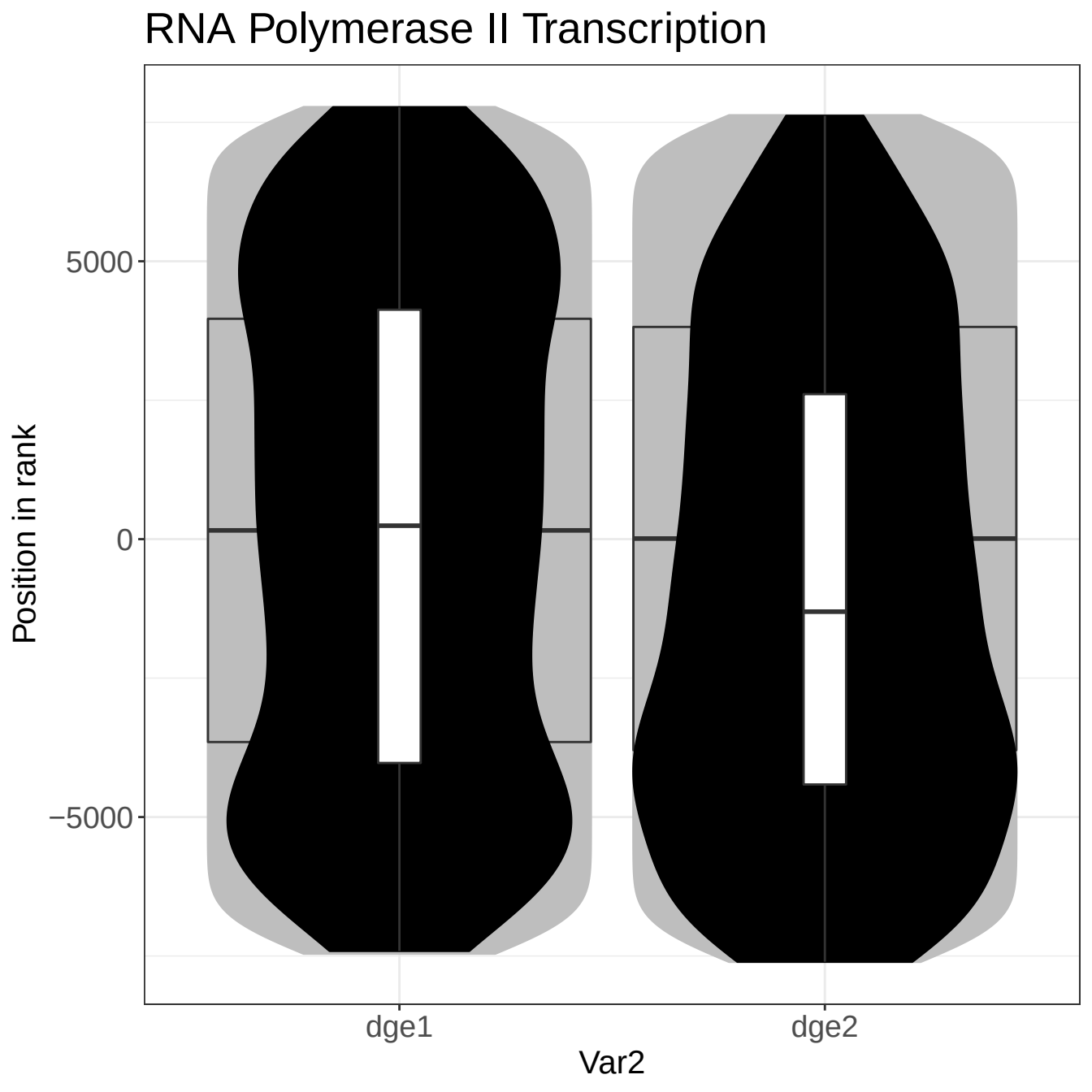

Disease
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−09
6e−09
4e−09
2e−09

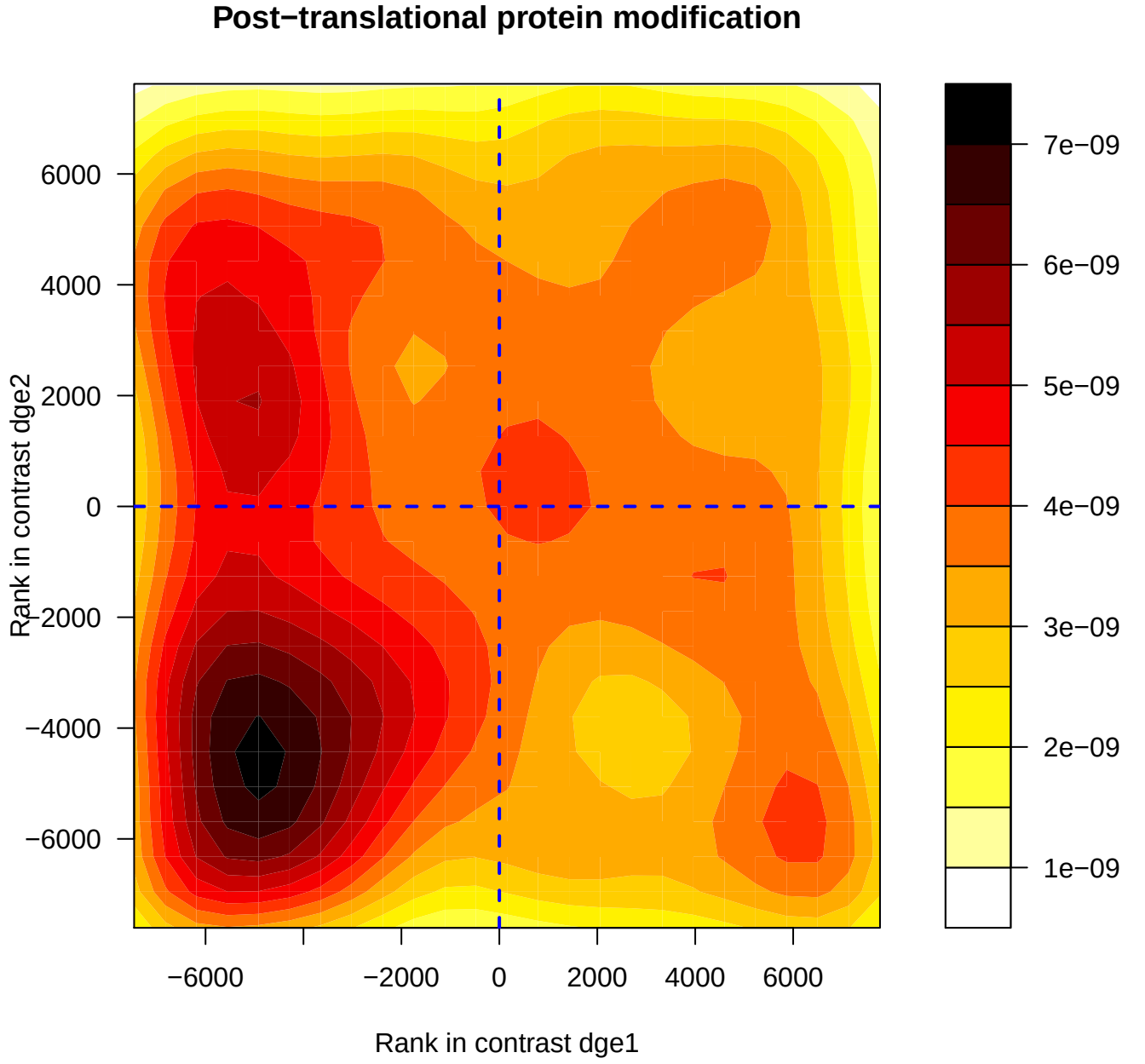

Disease
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

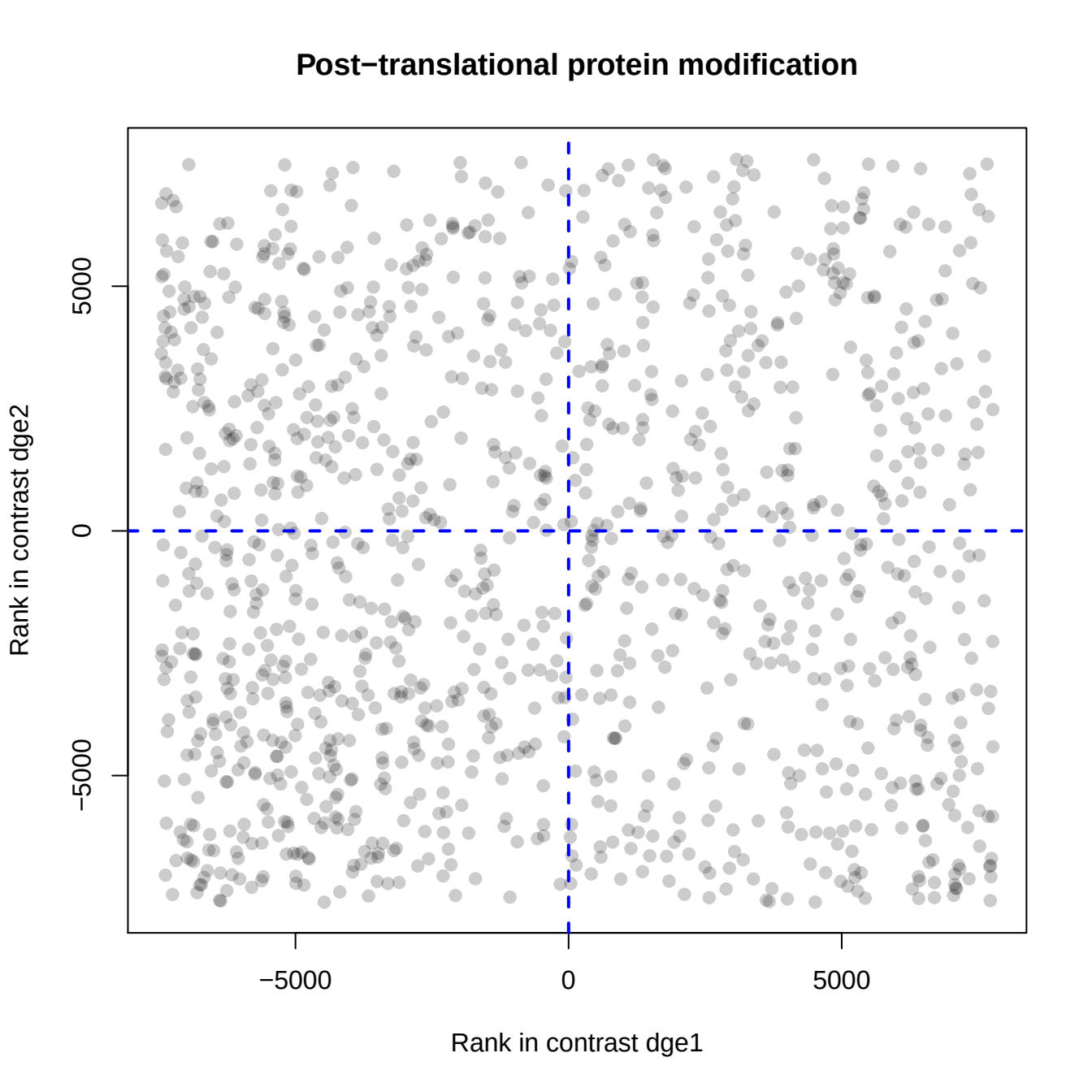

Disease
5000
0
−5000
Position in rank
dge1
dge2
Var2

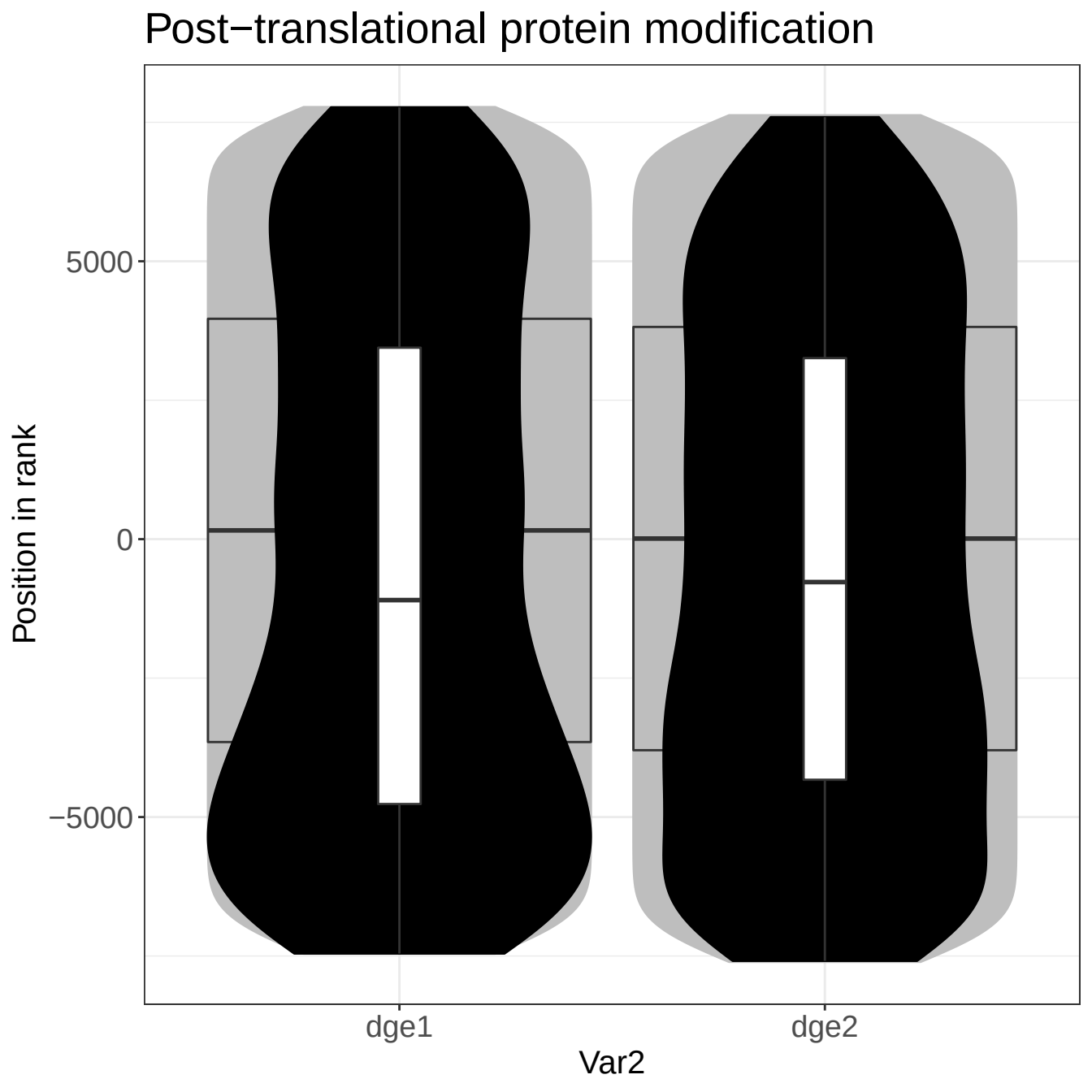

RNA Polymerase II Transcription
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−09
6e−09
4e−09
2e−09
0e+00

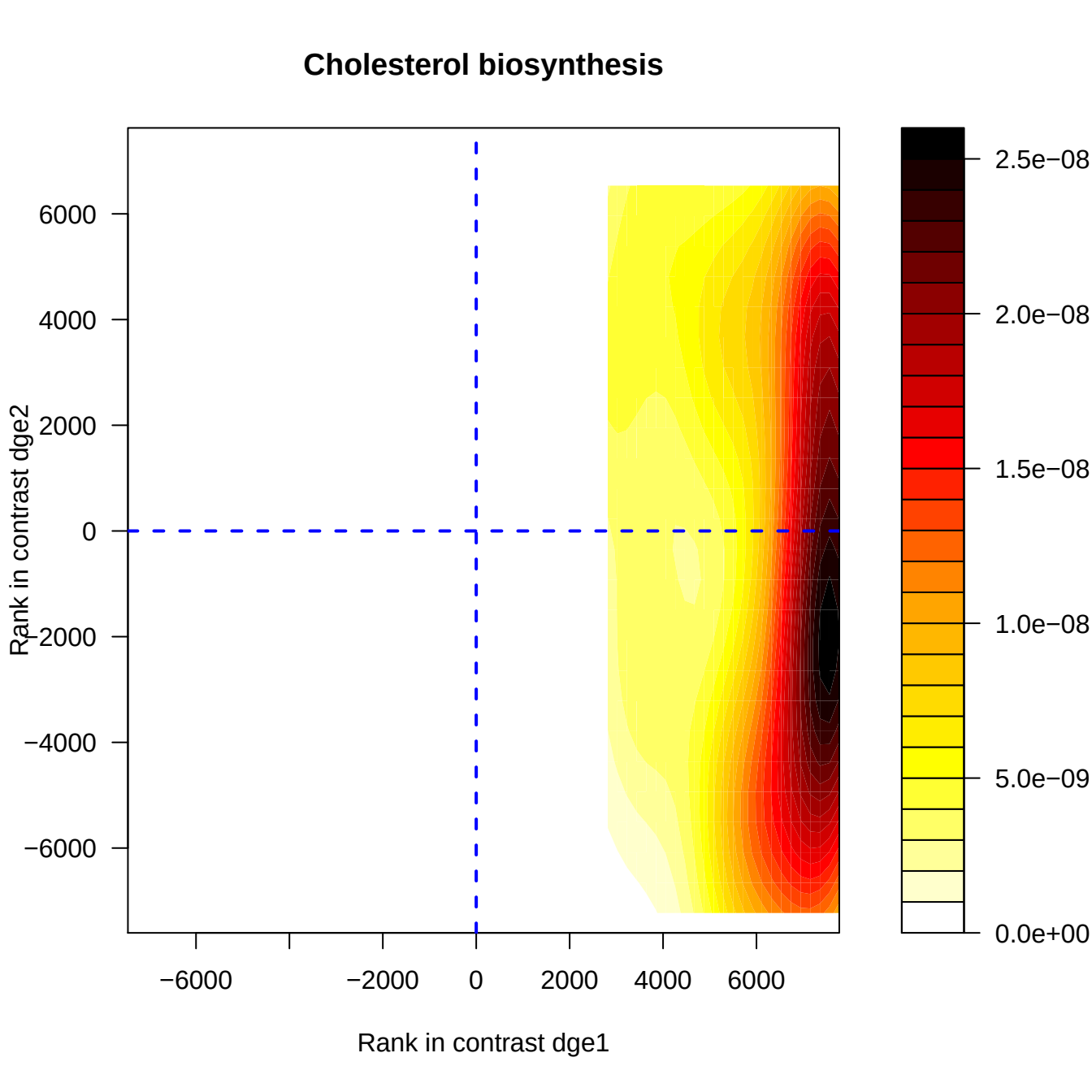

RNA Polymerase II Transcription
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

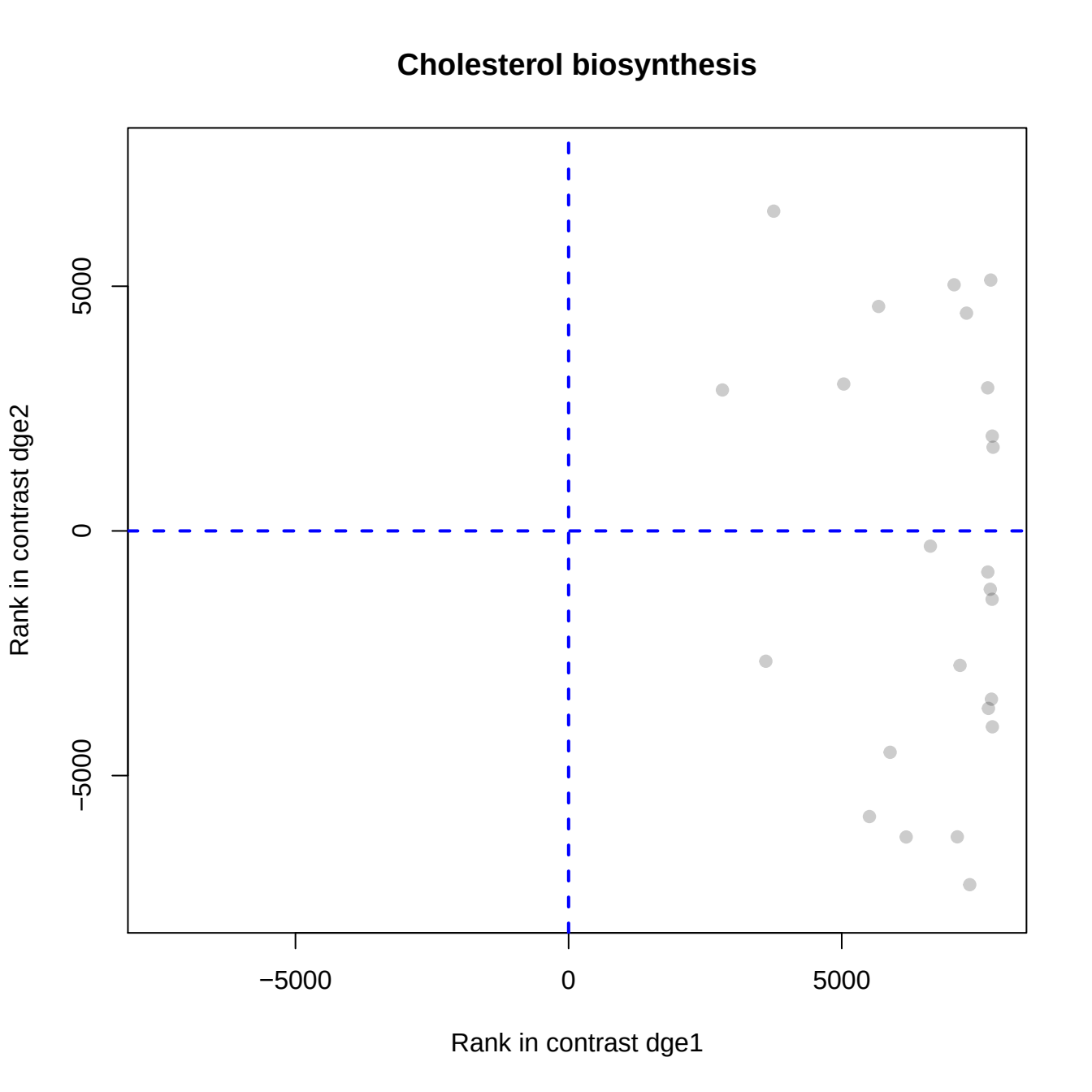

RNA Polymerase II Transcription
5000
0
−5000
Position in rank
dge1
dge2
Var2

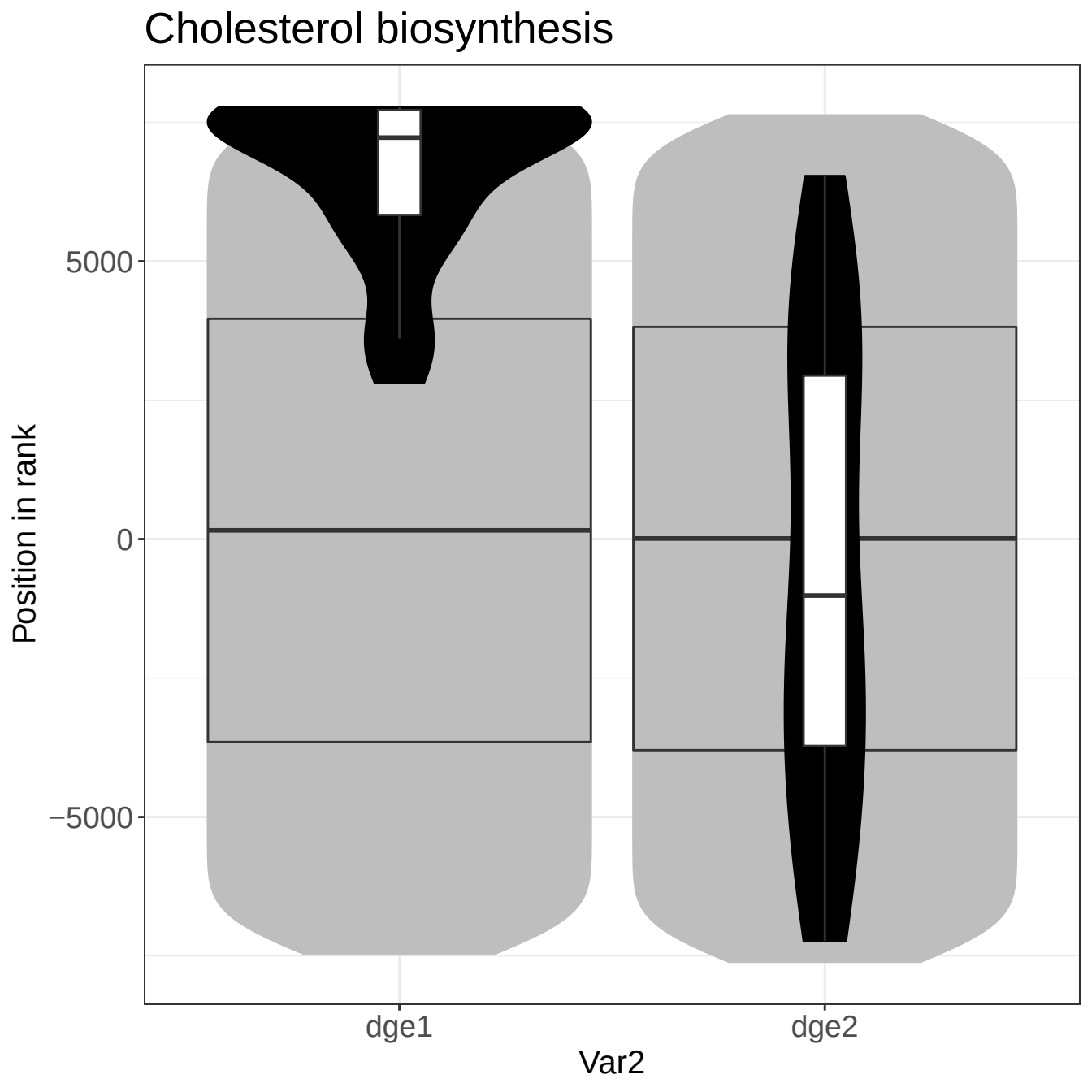

Post−translational protein modification
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
7e−09
6e−09
5e−09
4e−09
3e−09
2e−09
1e−09

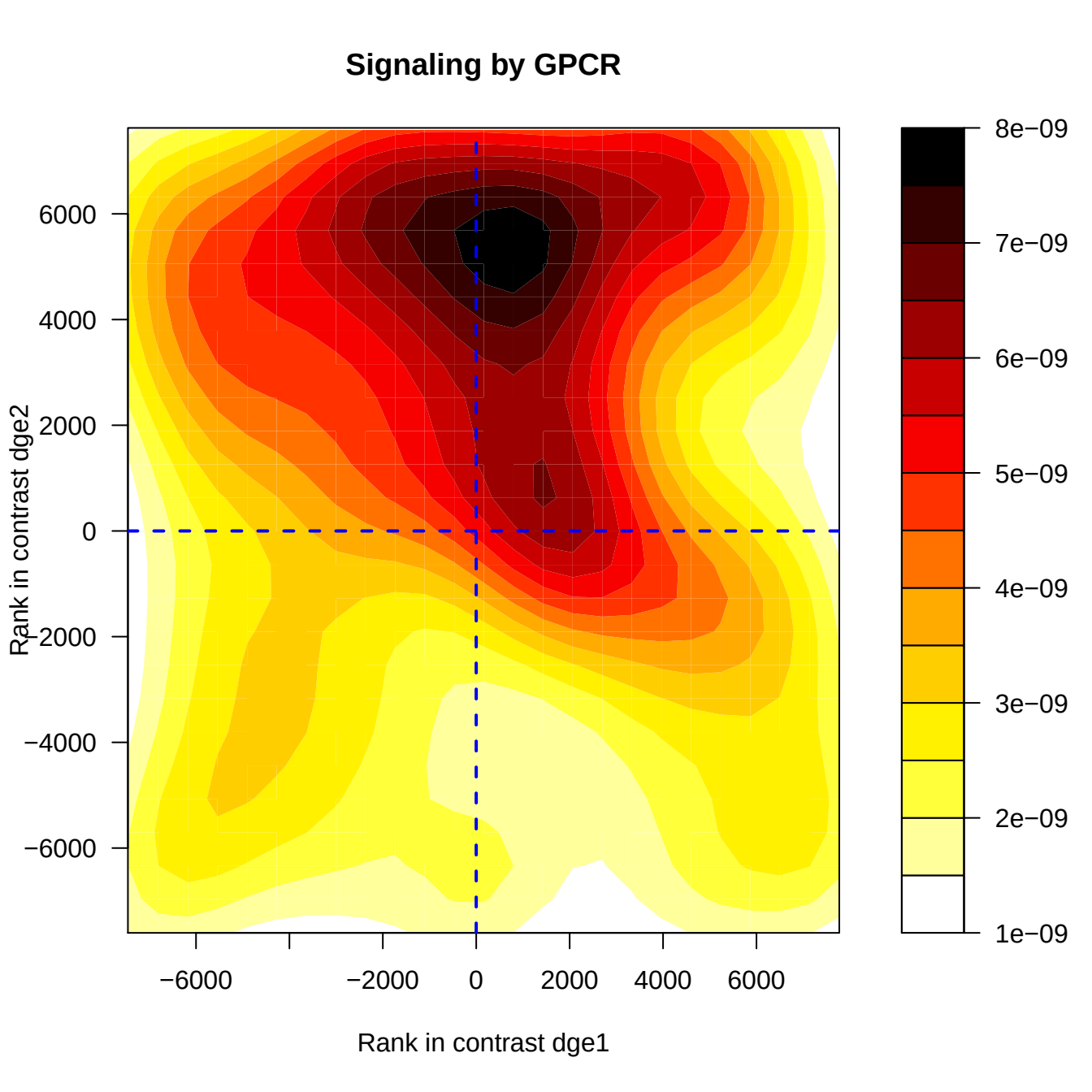

Post−translational protein modification
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

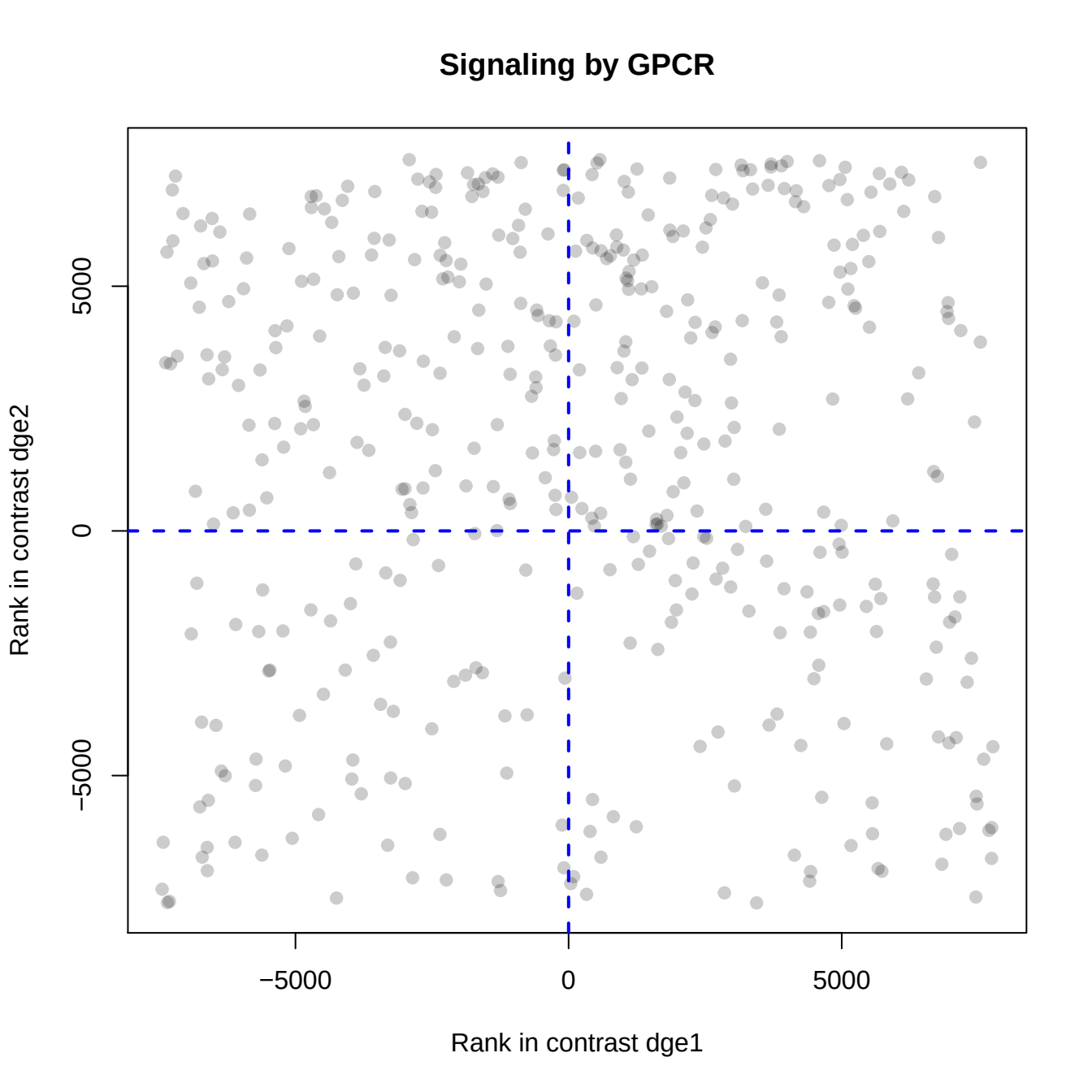

Post−translational protein modification
5000
0
−5000
Position in rank
dge1
dge2
Var2

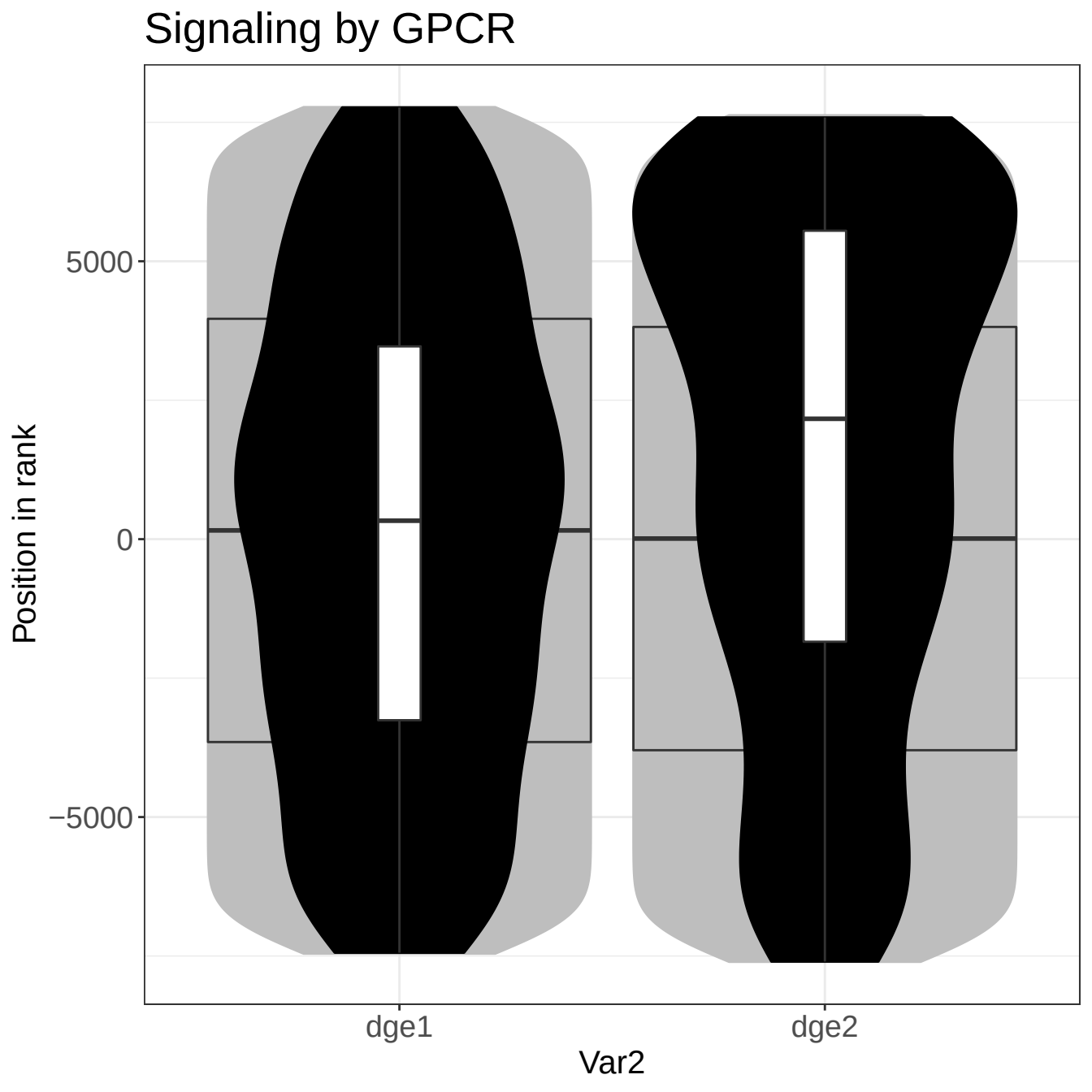

Cholesterol biosynthesis
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
2.5e−08
2.0e−08
1.5e−08
1.0e−08
5.0e−09
0.0e+00

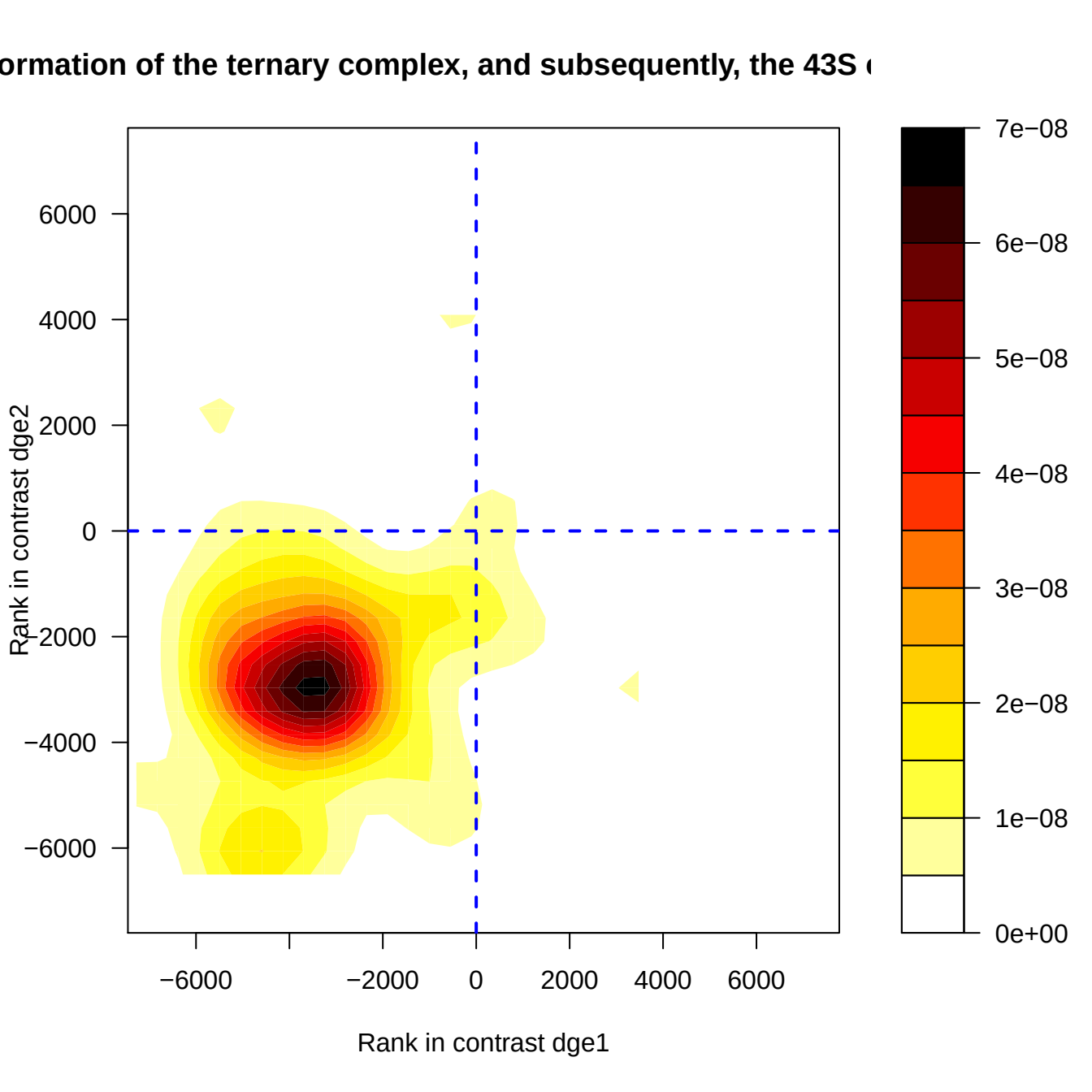

Cholesterol biosynthesis
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

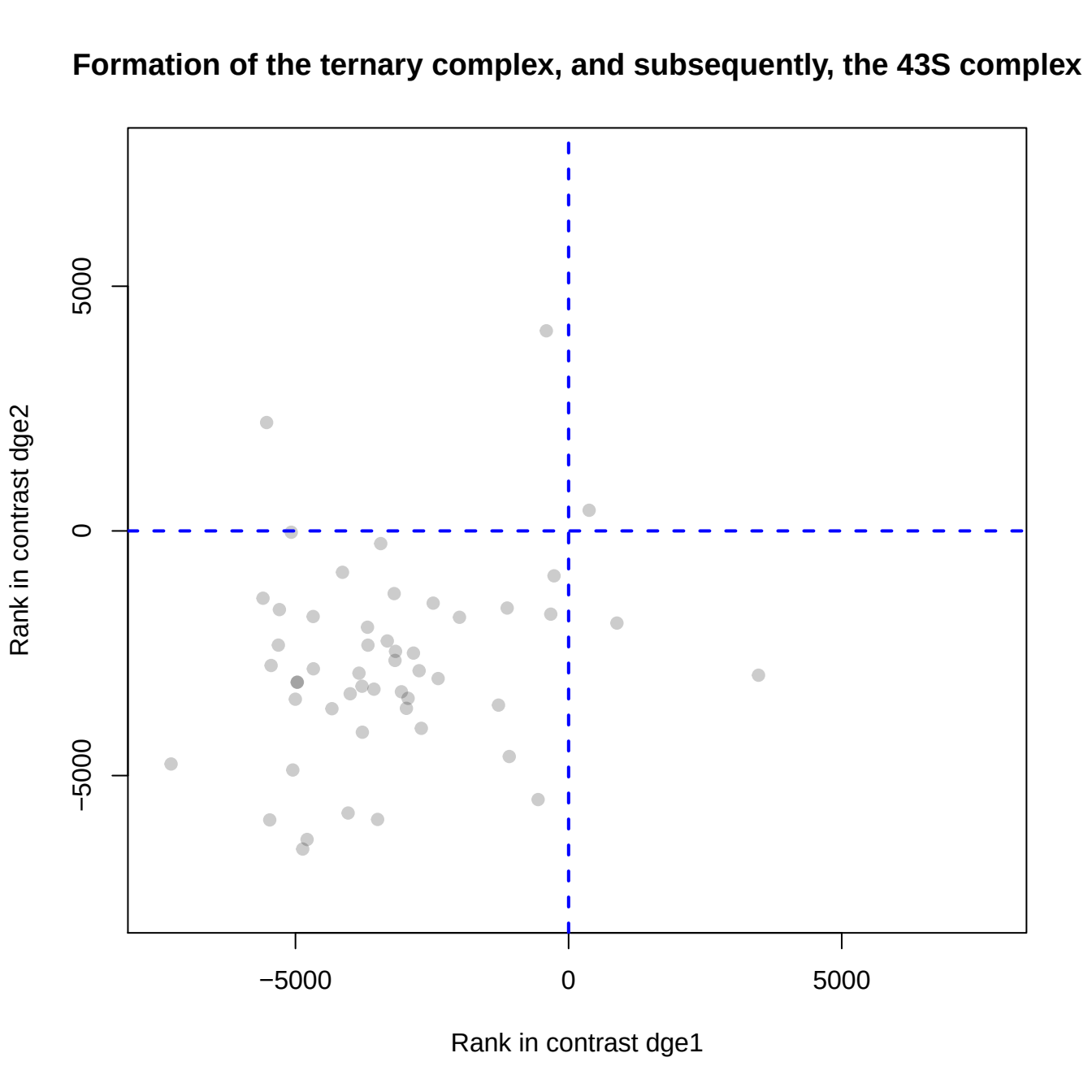

Cholesterol biosynthesis
5000
0
−5000
Position in rank
dge1
dge2
Var2

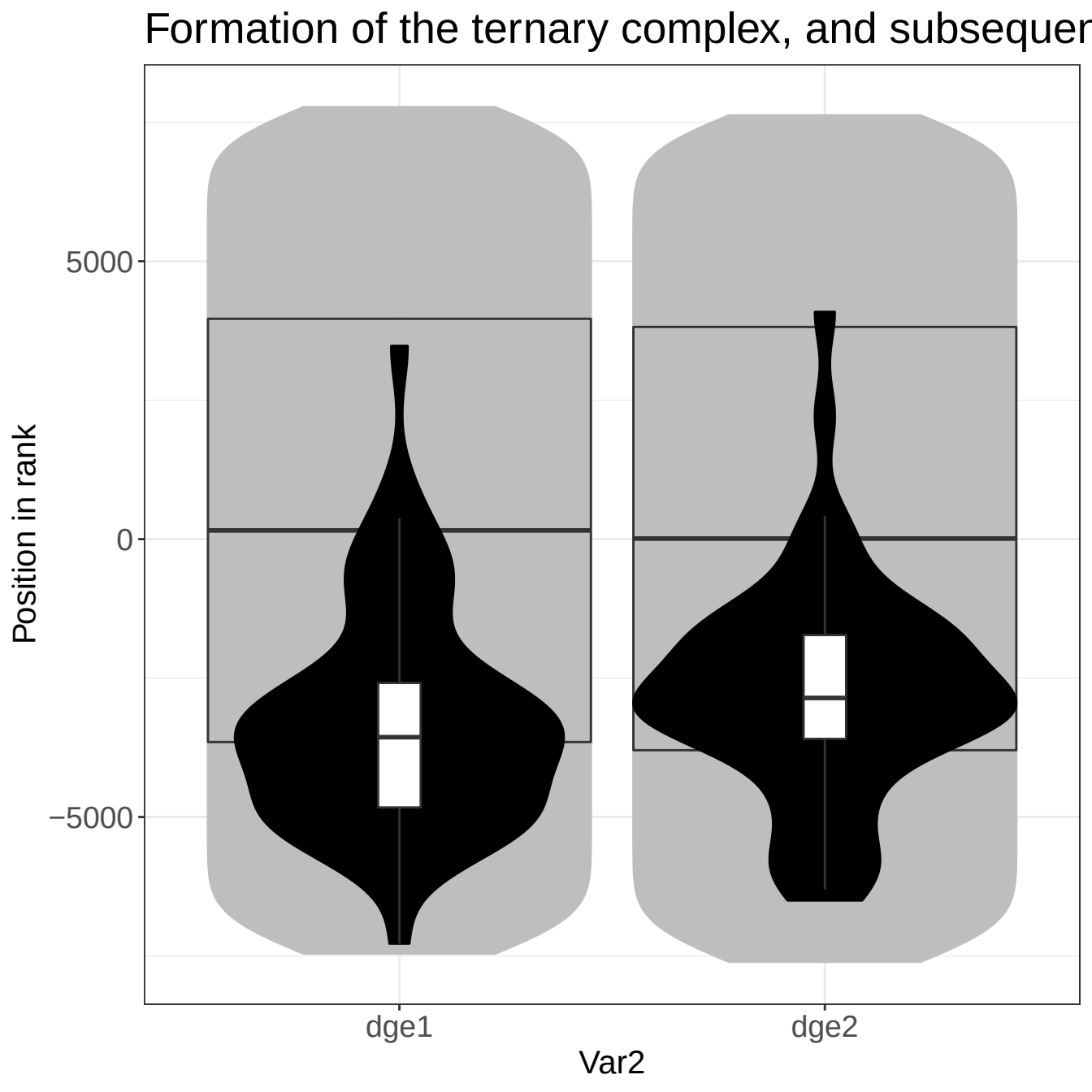

Signaling by GPCR
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
8e−09
7e−09
6e−09
5e−09
4e−09
3e−09
2e−09
1e−09

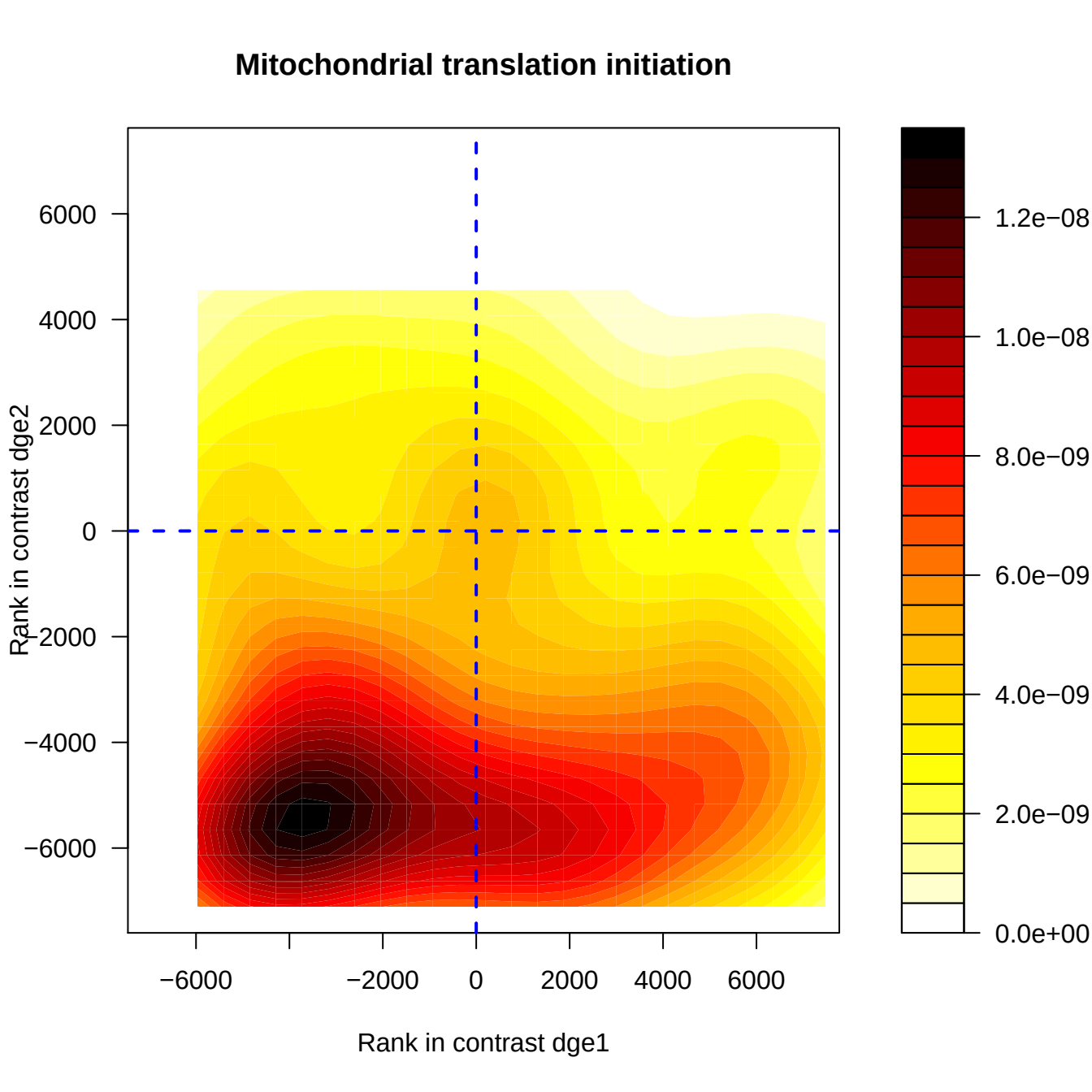

Signaling by GPCR
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

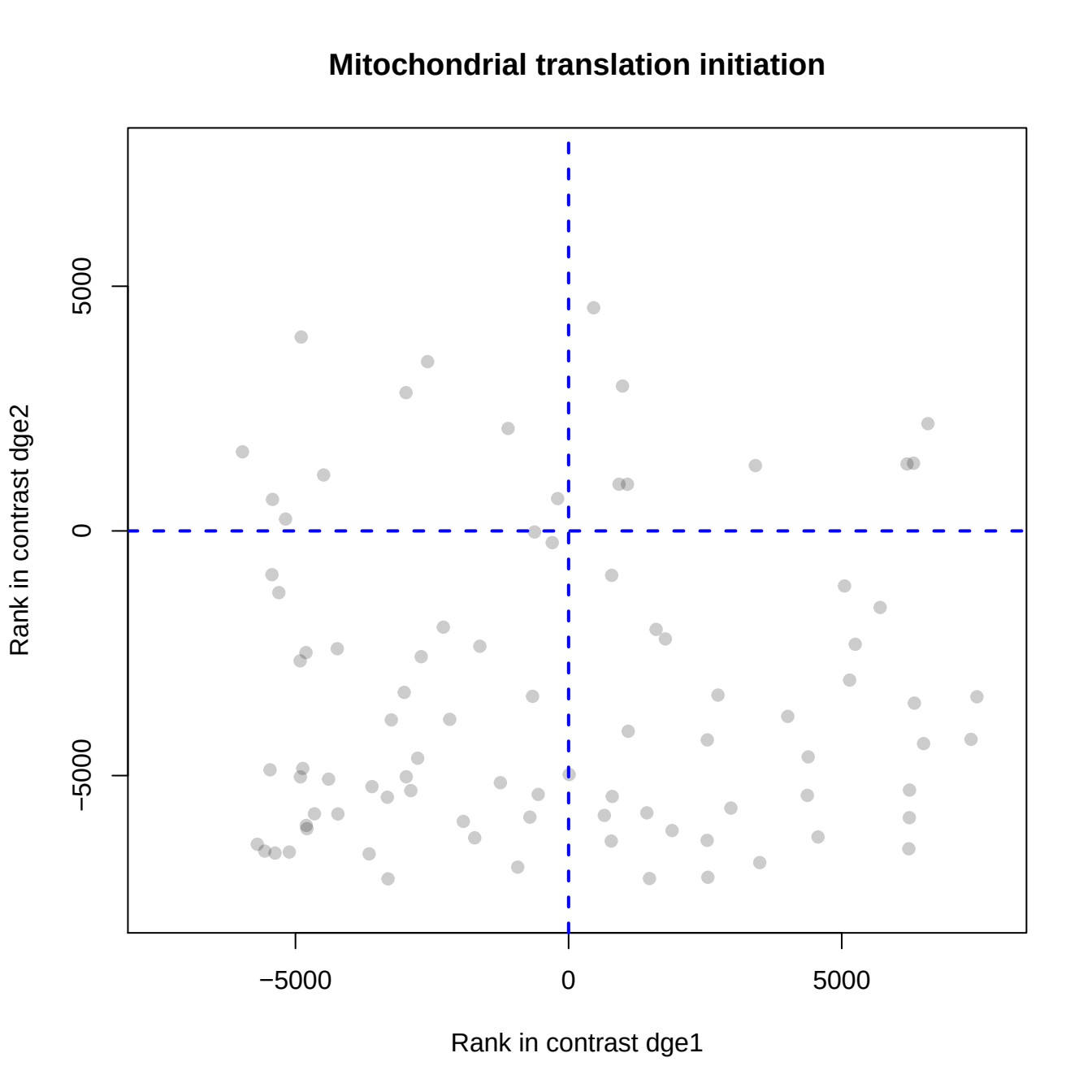

Signaling by GPCR
5000
0
−5000
Position in rank
dge1
dge2
Var2

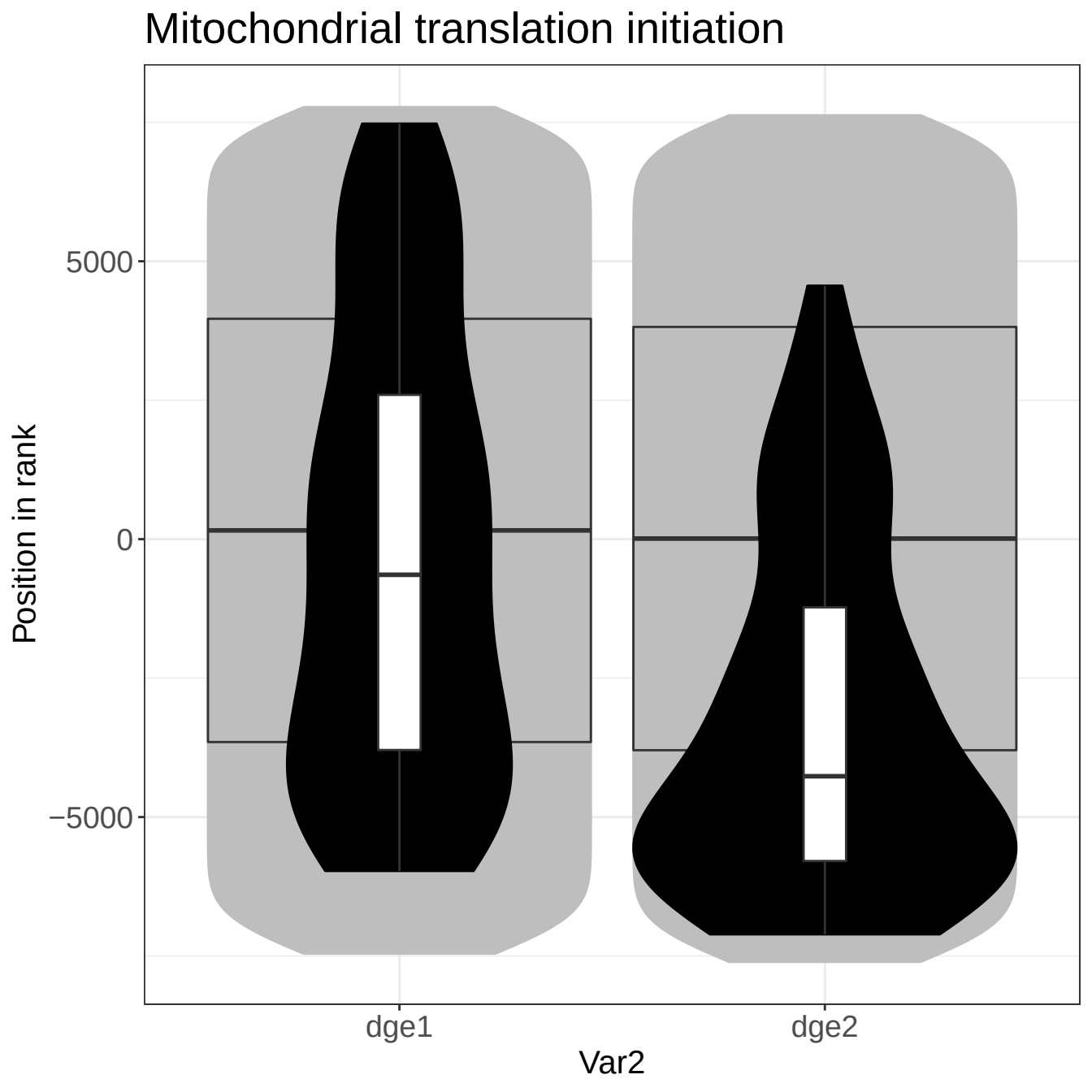

ormation of the ternary complex, and subsequently, the 43S
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
7e−08
6e−08
5e−08
4e−08
3e−08
2e−08
1e−08
0e+00

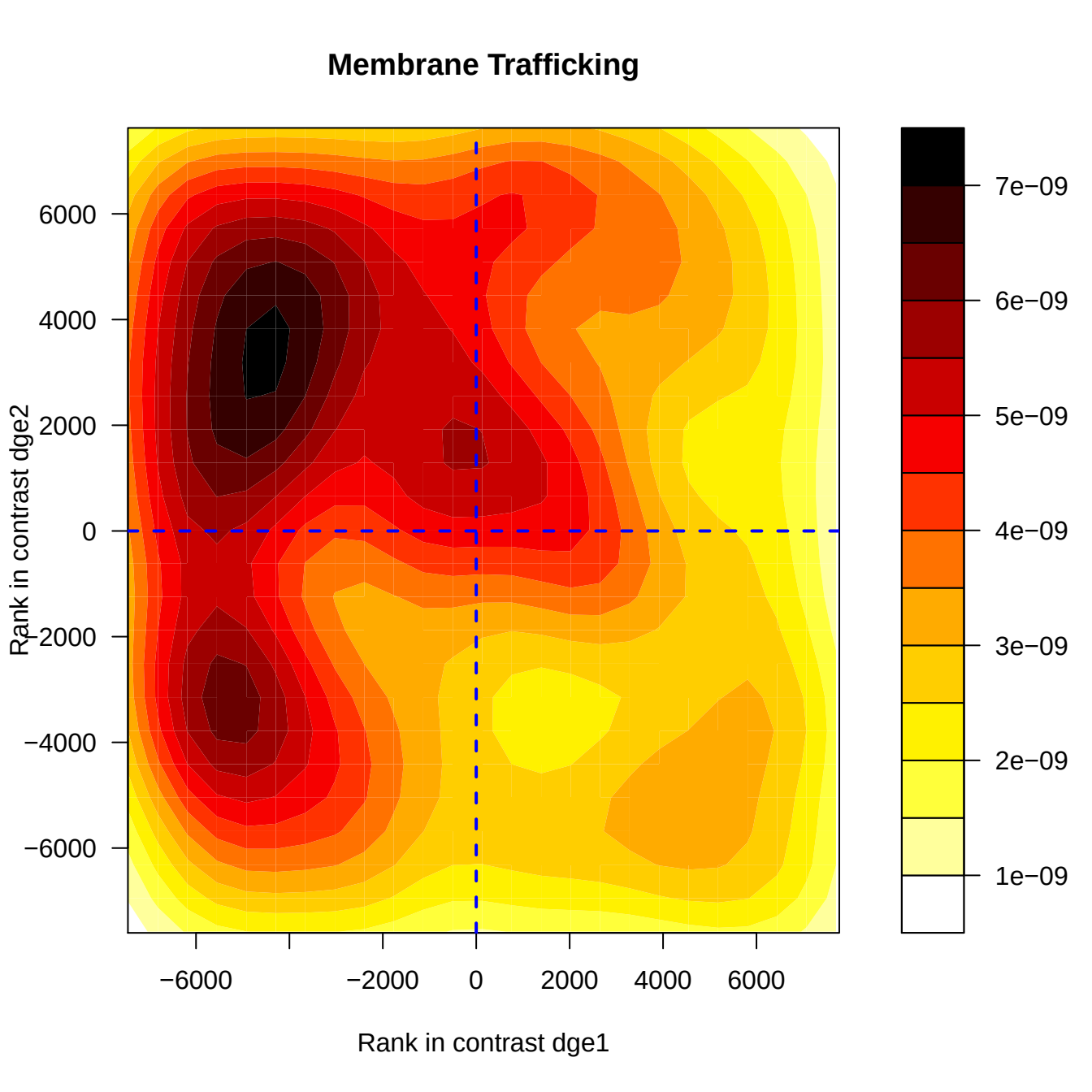

Formation of the ternary complex, and subsequently, the 43S complex
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

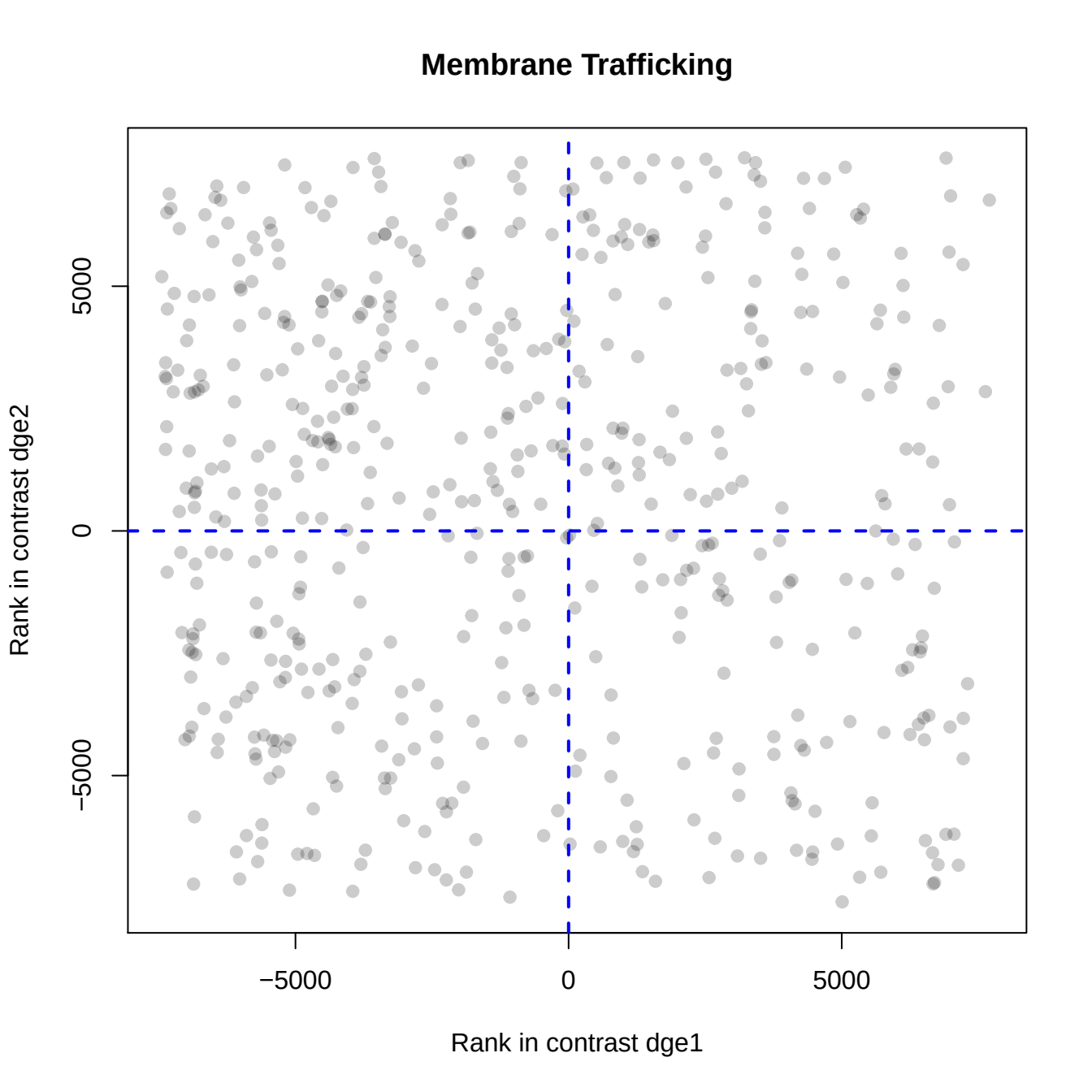

Formation of the ternary complex, and subsequen
5000
0
−5000
Position in rank
dge1
dge2
Var2

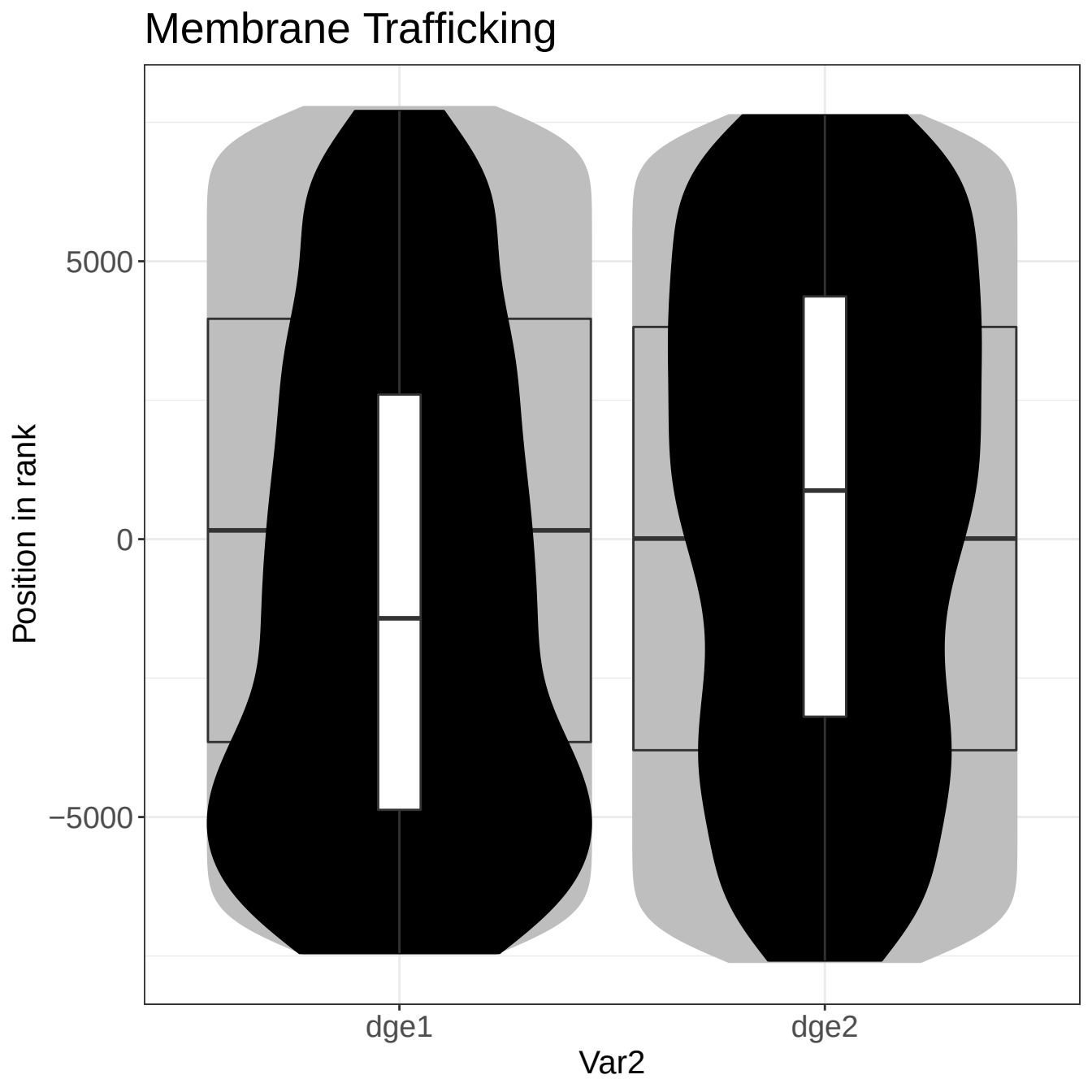

Mitochondrial translation initiation
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09
0.0e+00

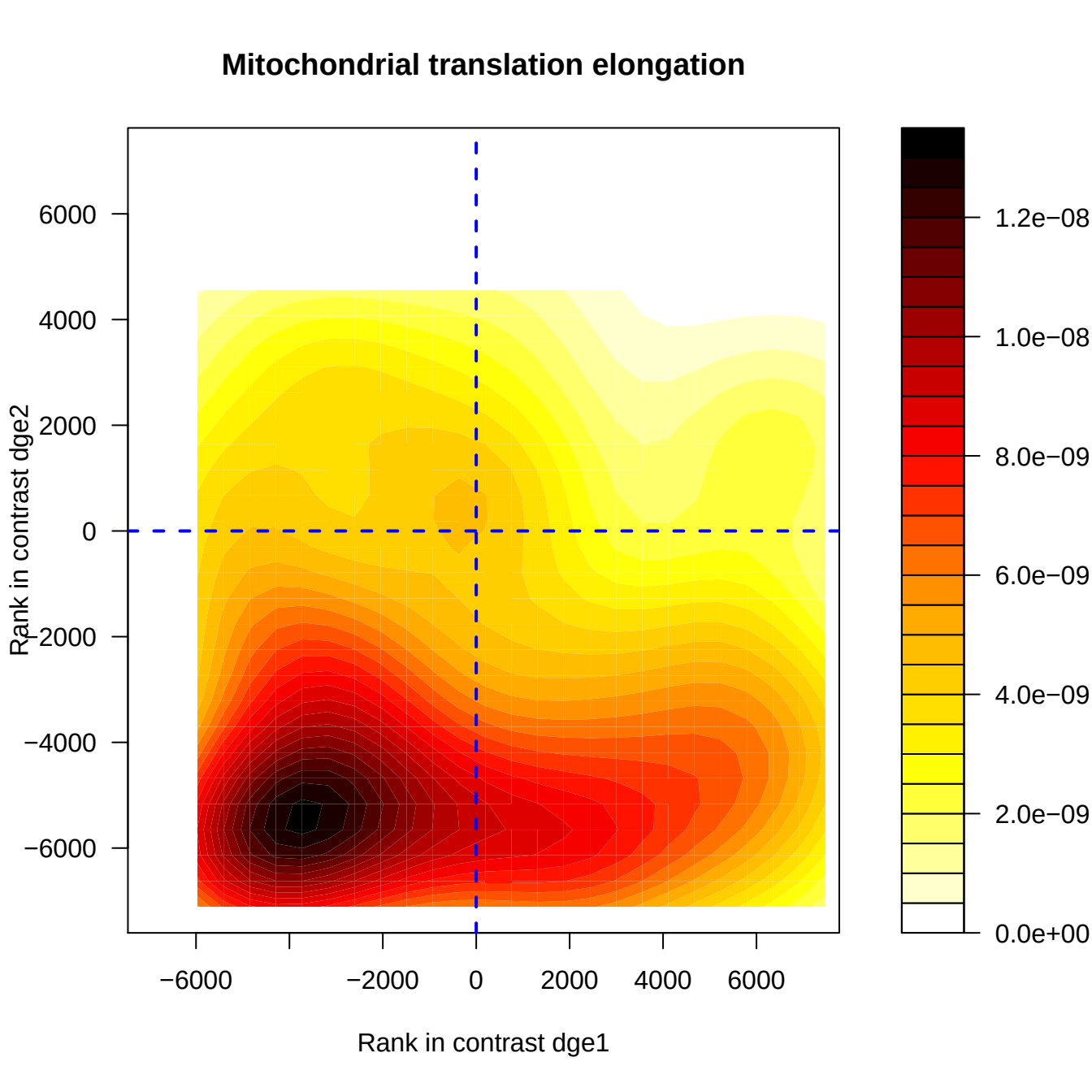

Mitochondrial translation initiation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

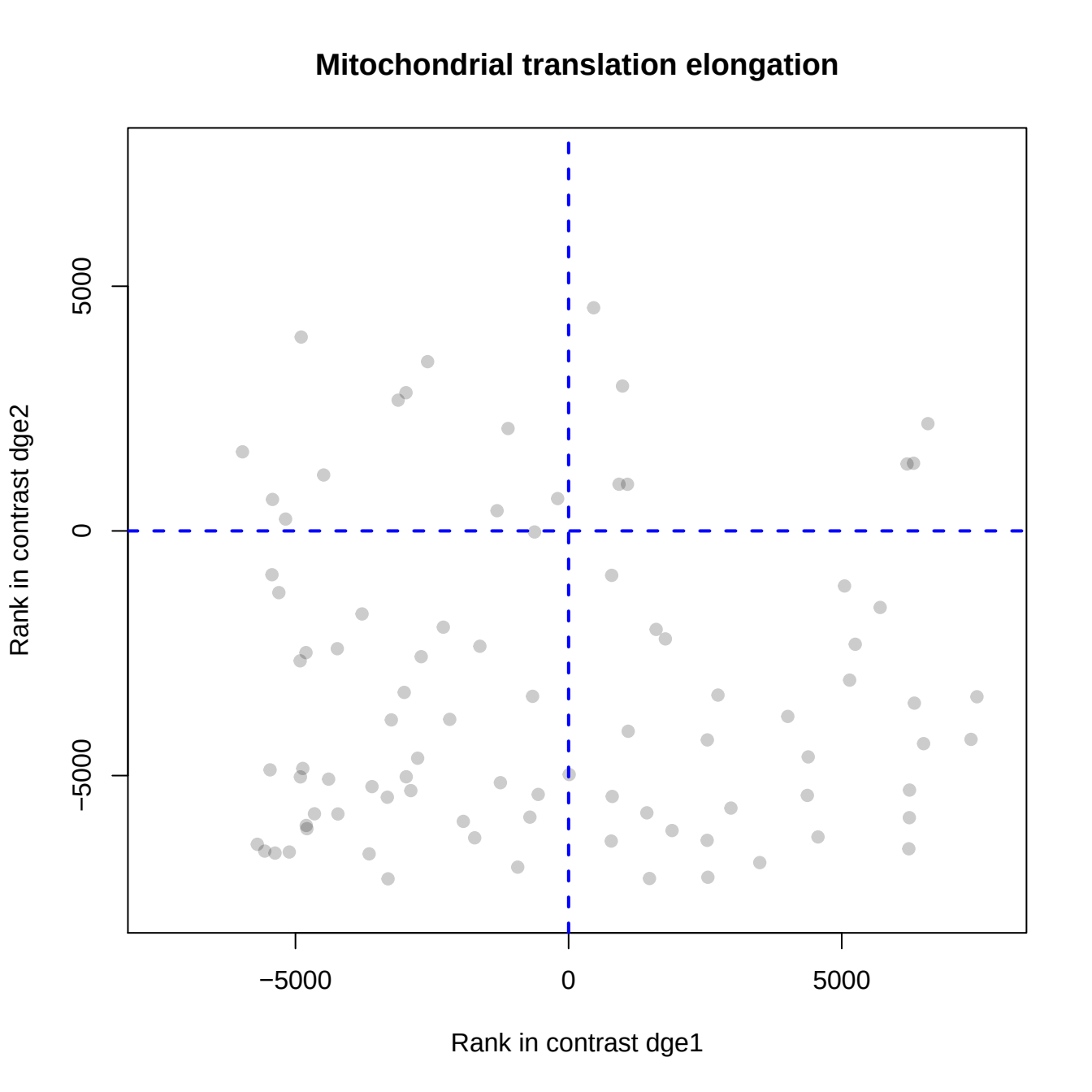

Mitochondrial translation initiation
5000
0
−5000
Position in rank
dge1
dge2
Var2

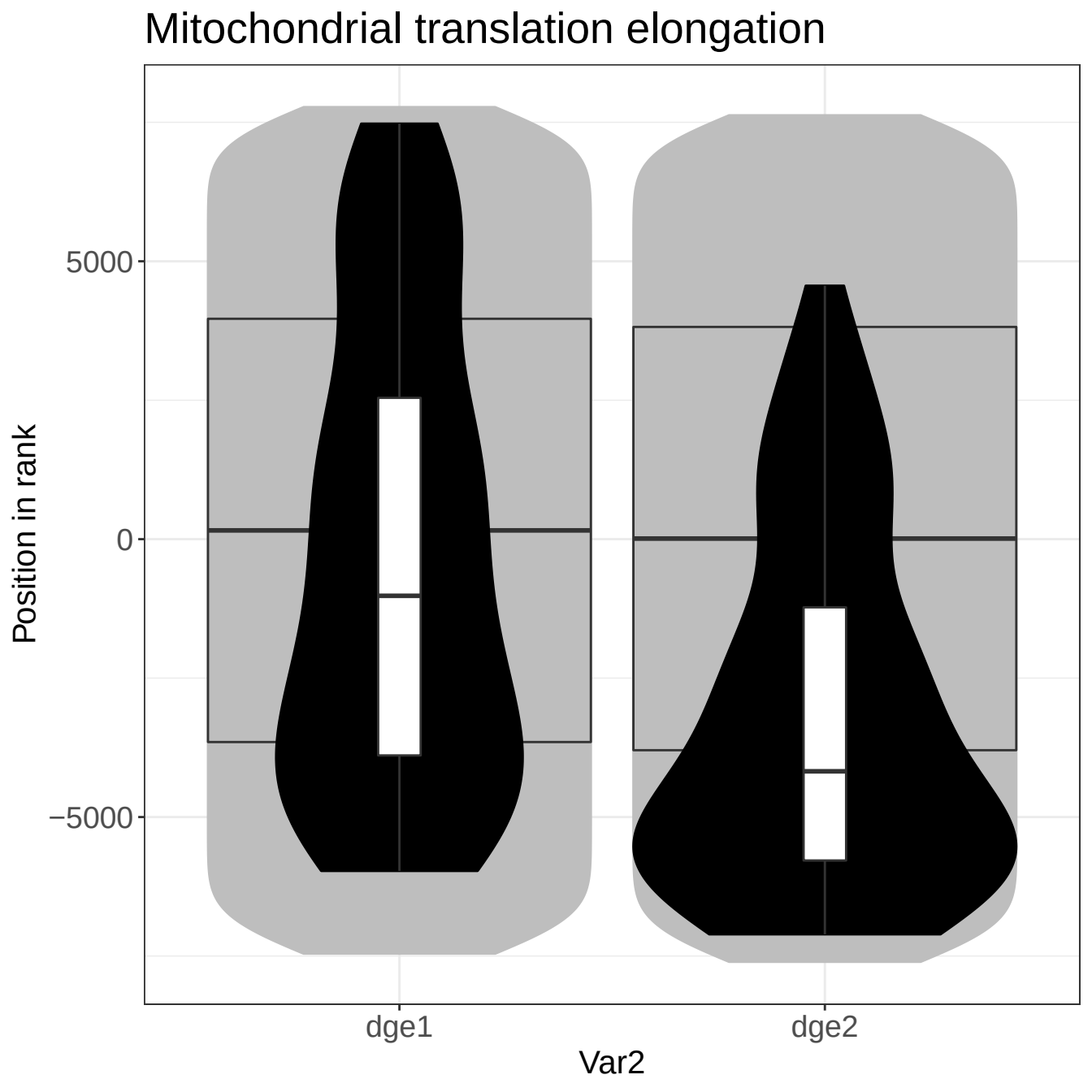

Membrane Trafficking
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
7e−09
6e−09
5e−09
4e−09
3e−09
2e−09
1e−09

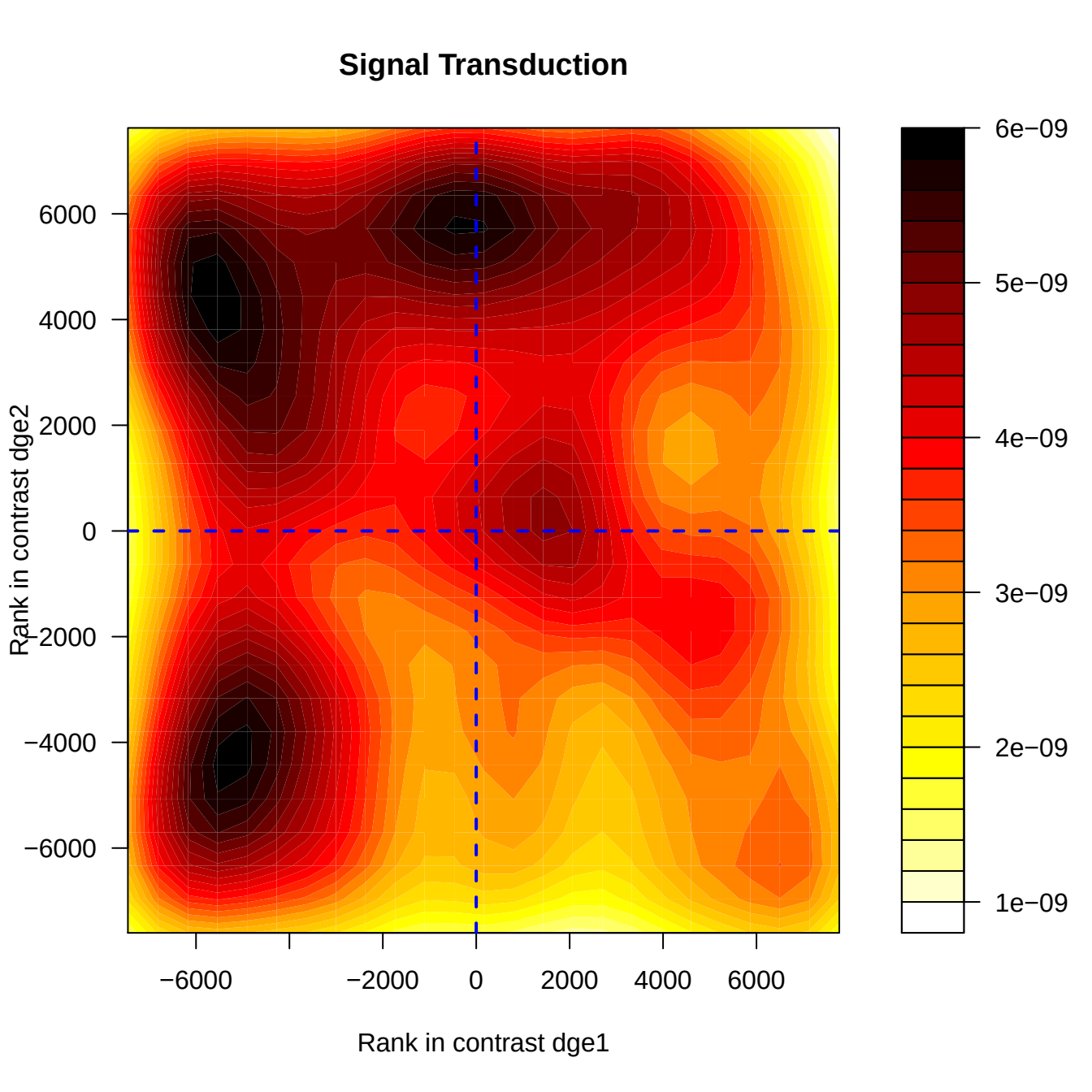

Membrane Trafficking
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1

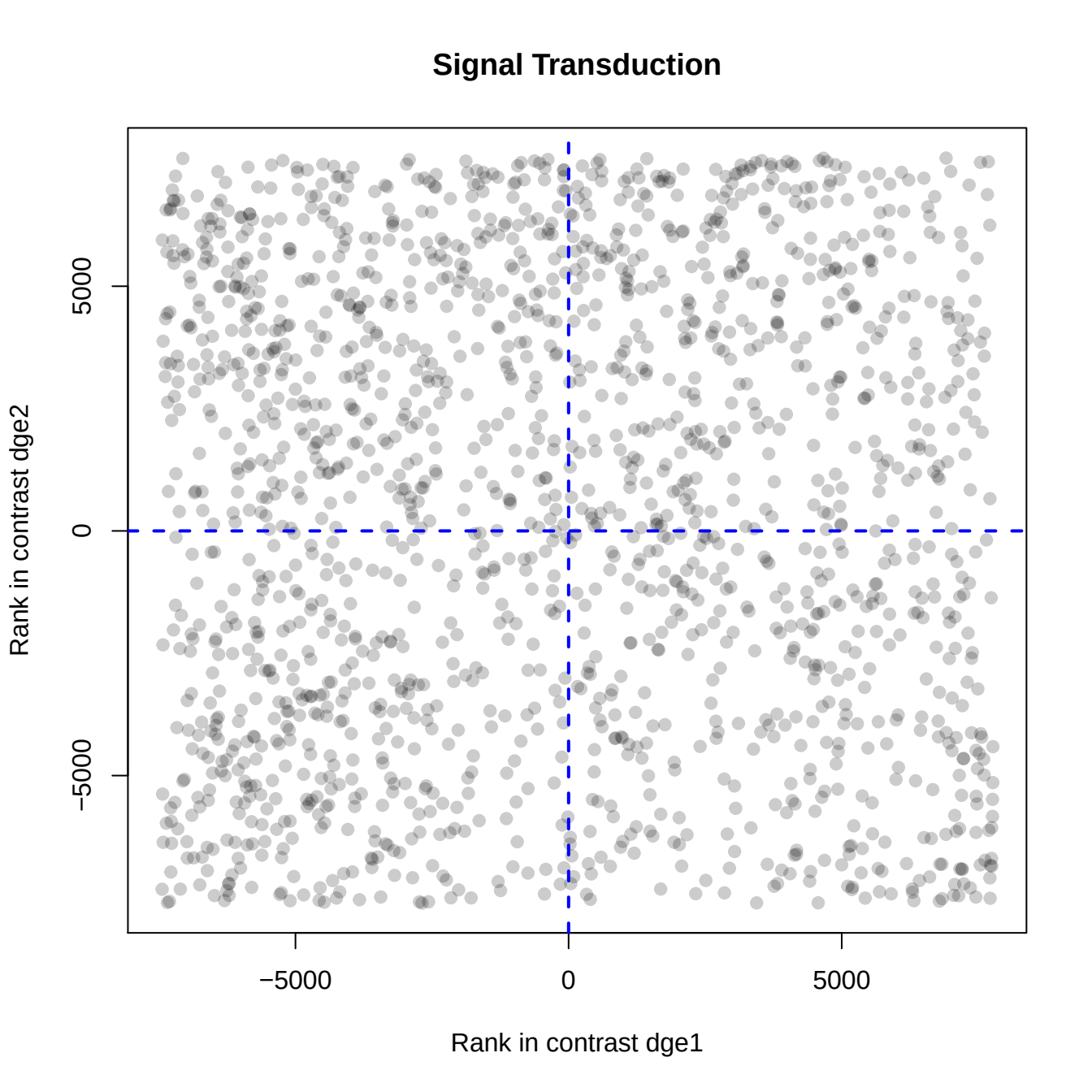

Membrane Trafficking
5000
0
−5000
Position in rank
dge1
dge2
Var2

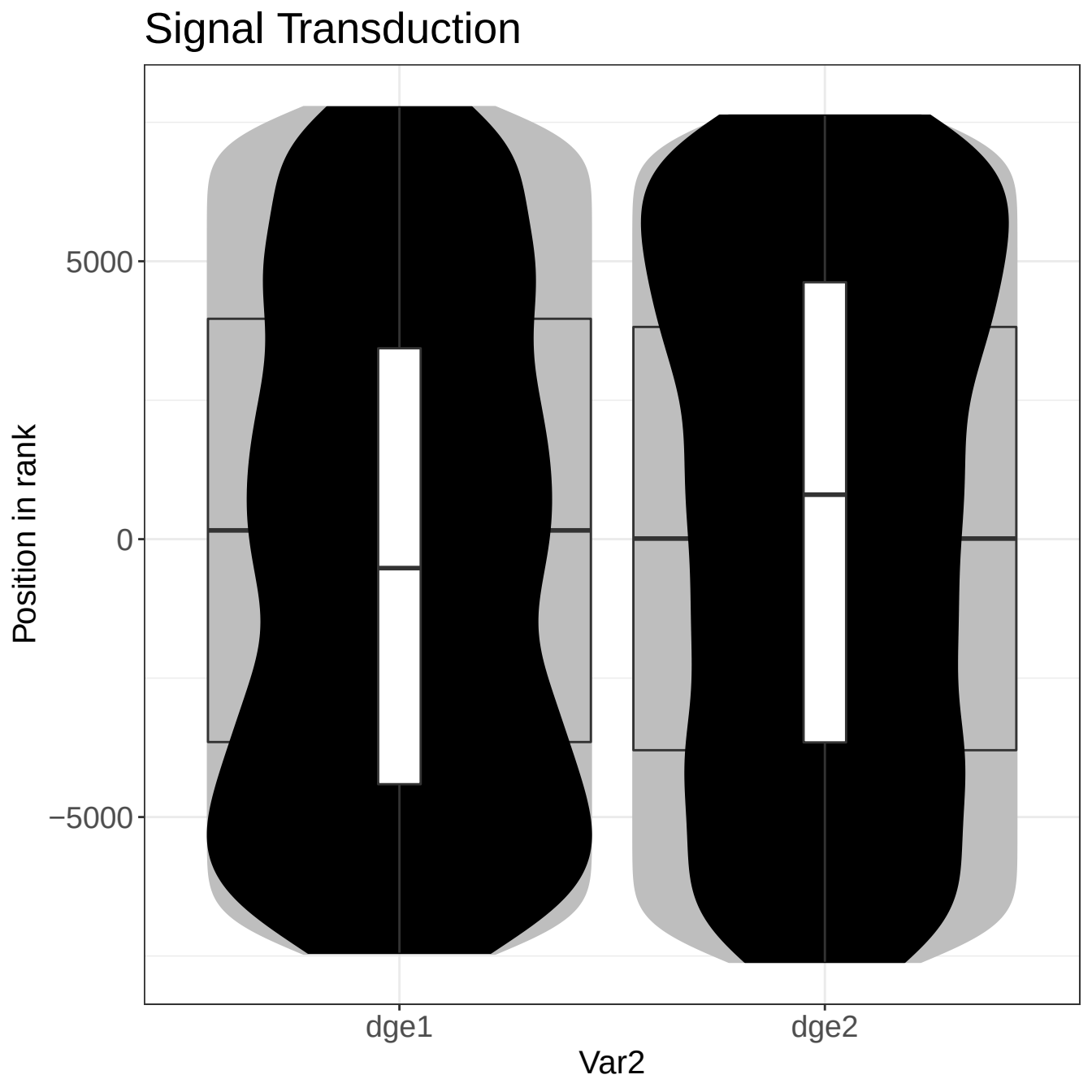

Mitochondrial translation elongation
Rank in contrast dge2
6000
4000
2000
0
−2000
−4000
−6000
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
1.2e−08
1.0e−08
8.0e−09
6.0e−09
4.0e−09
2.0e−09
0.0e+00


Mitochondrial translation elongation
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1


Mitochondrial translation elongation
5000
0
−5000
Position in rank
dge1
dge2
Var2


Signal Transduction
6000
4000
2000
0
−2000
−4000
−6000
Rank in contrast dge2
−6000
−2000
0
2000
4000
6000
Rank in contrast dge1
6e−09
5e−09
4e−09
3e−09
2e−09
1e−09


Signal Transduction
Rank in contrast dge2
5000
0
−5000
−5000
0
5000
Rank in contrast dge1


Signal Transduction
5000
0
−5000
Position in rank
dge1
dge2
Var2