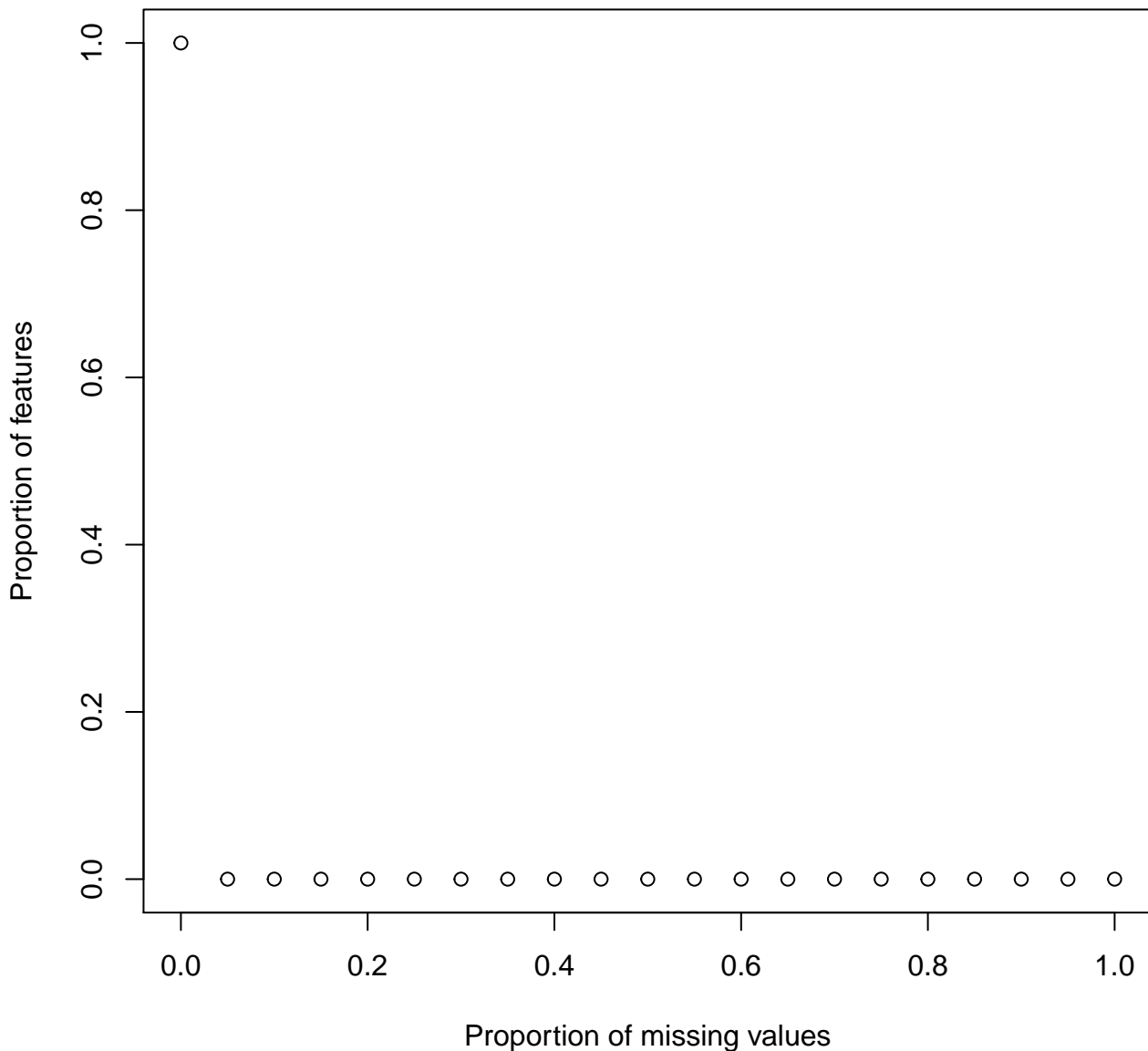
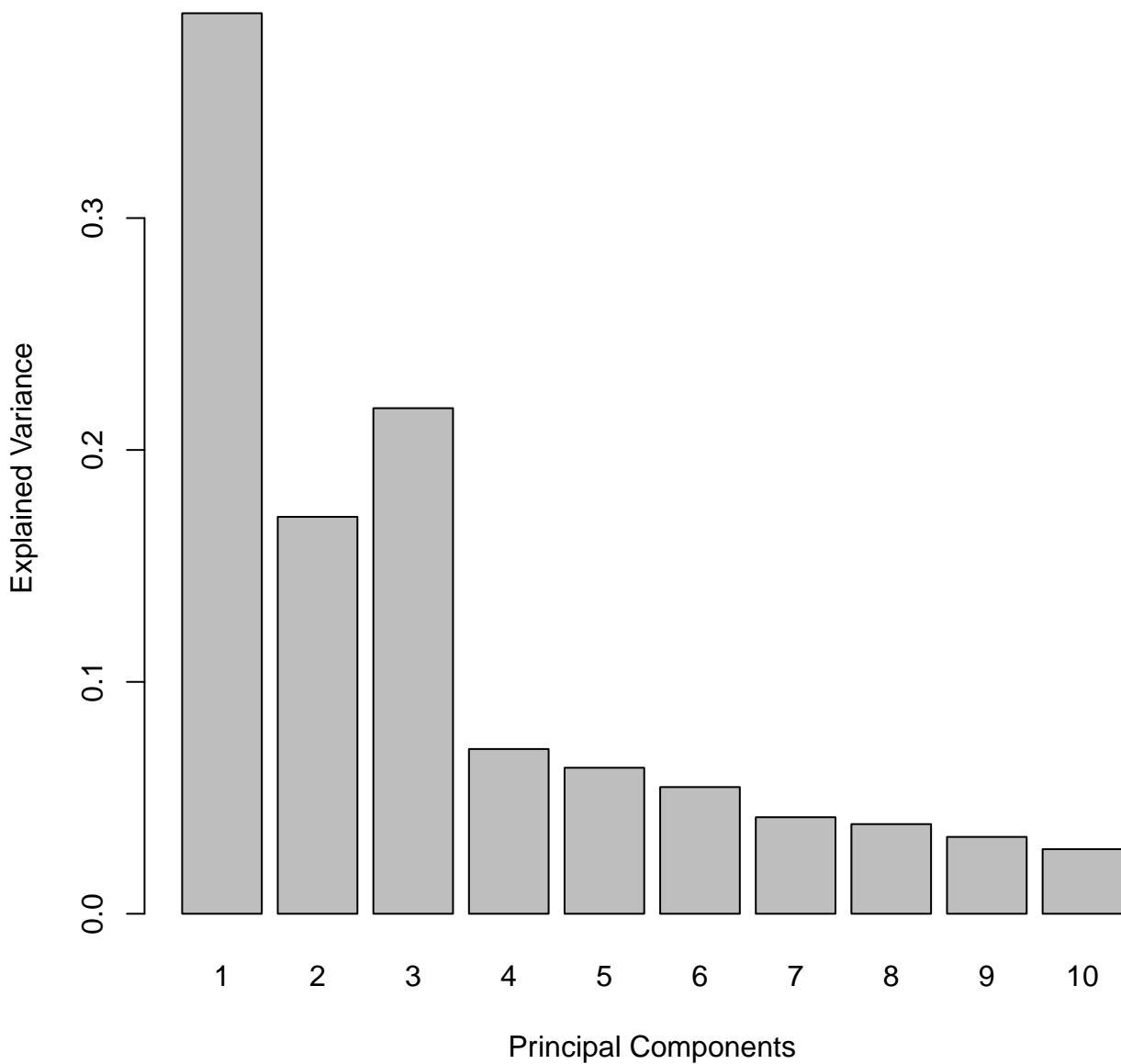


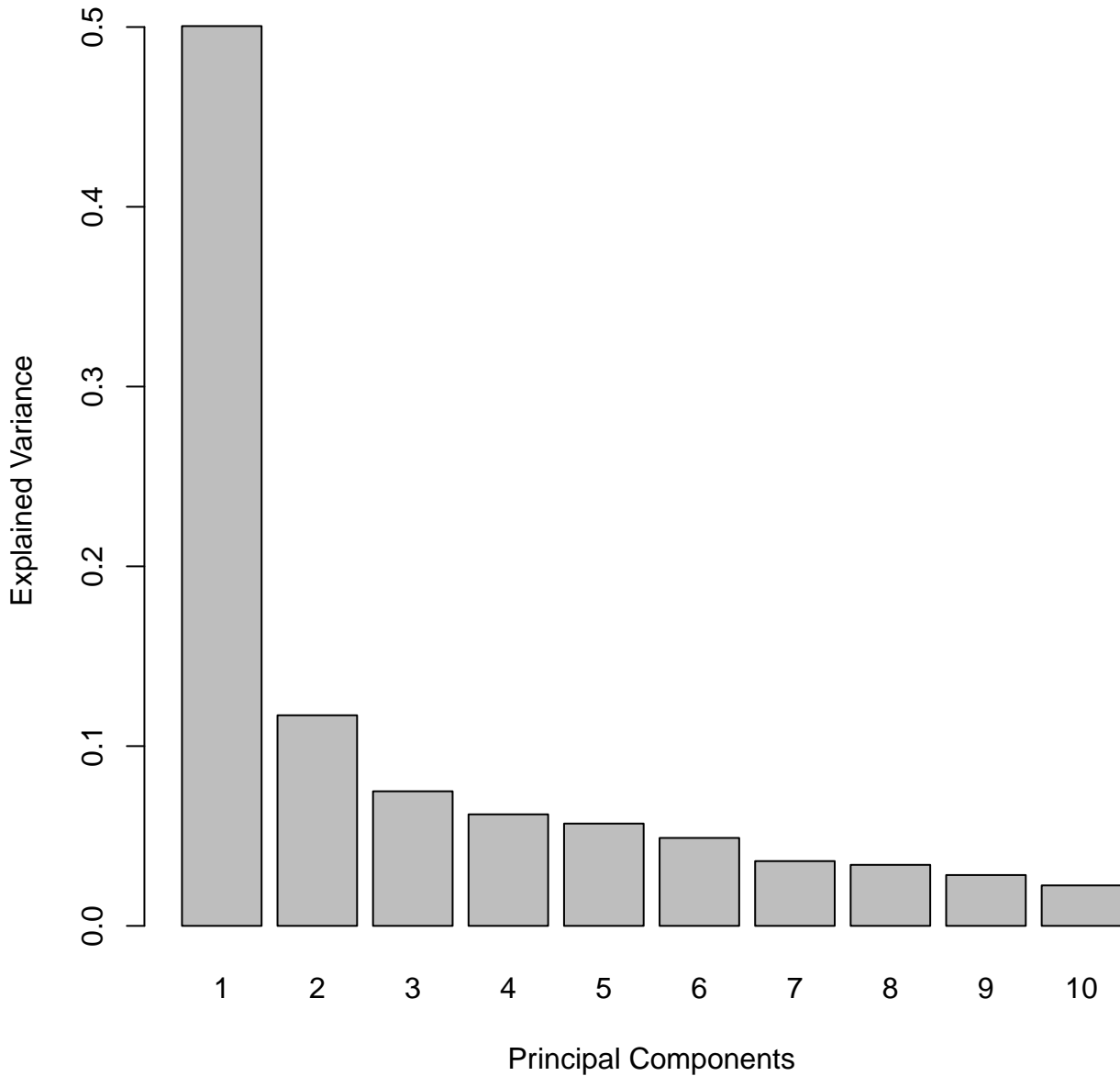
transcriptome missing value proportions for unfiltered data



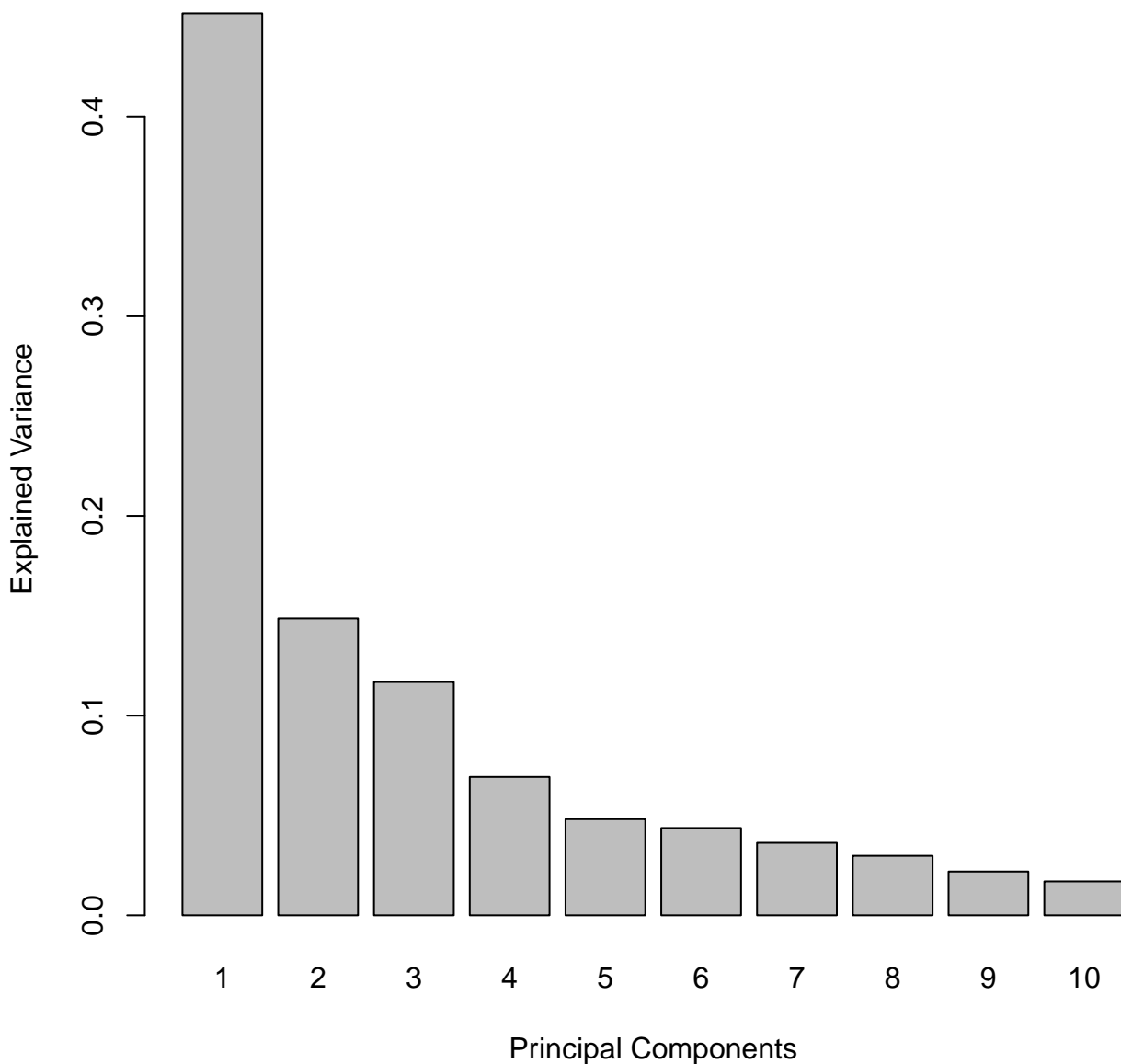
metabolome screeplot



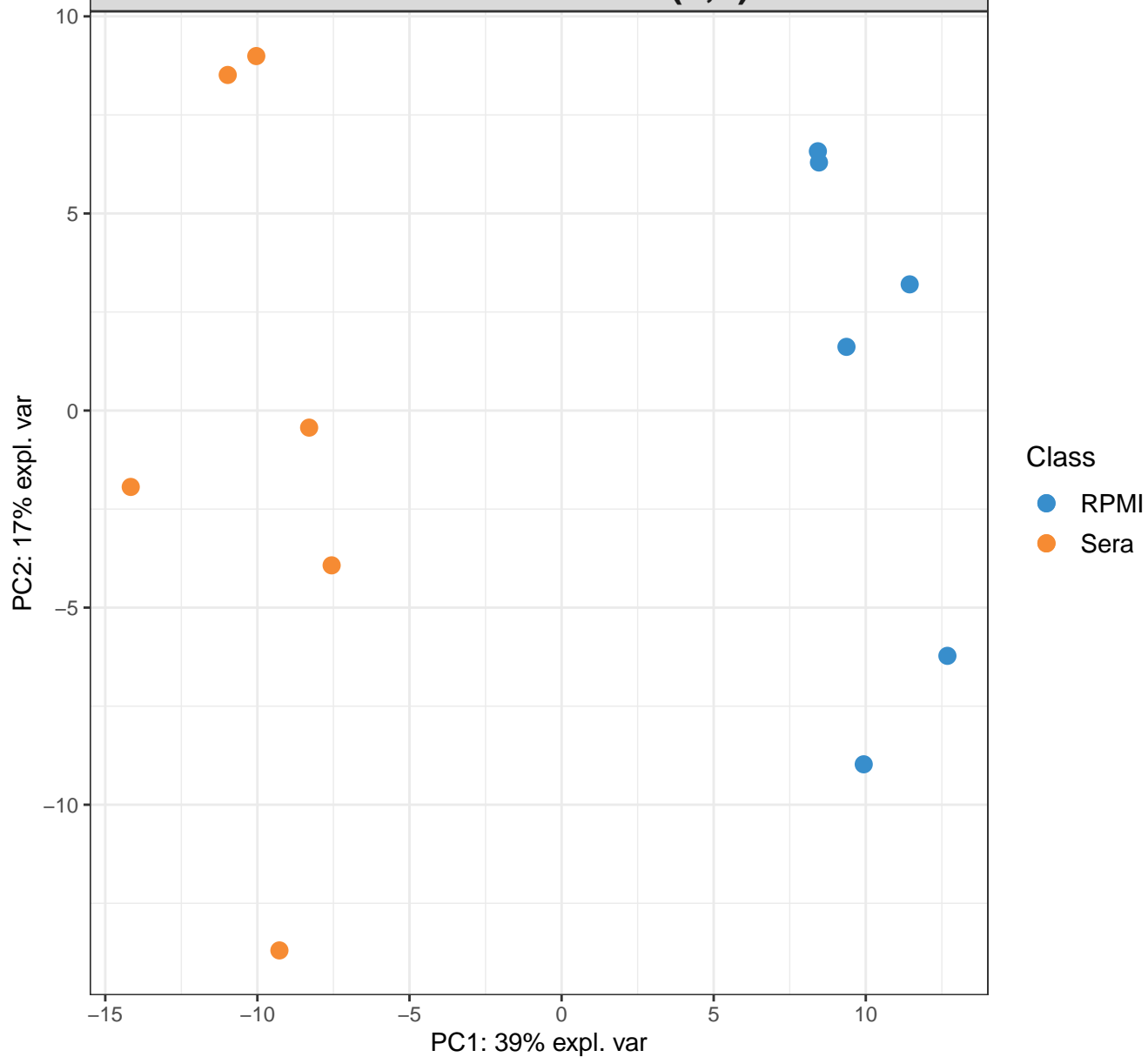
proteome screeplot



transcriptome screeplot

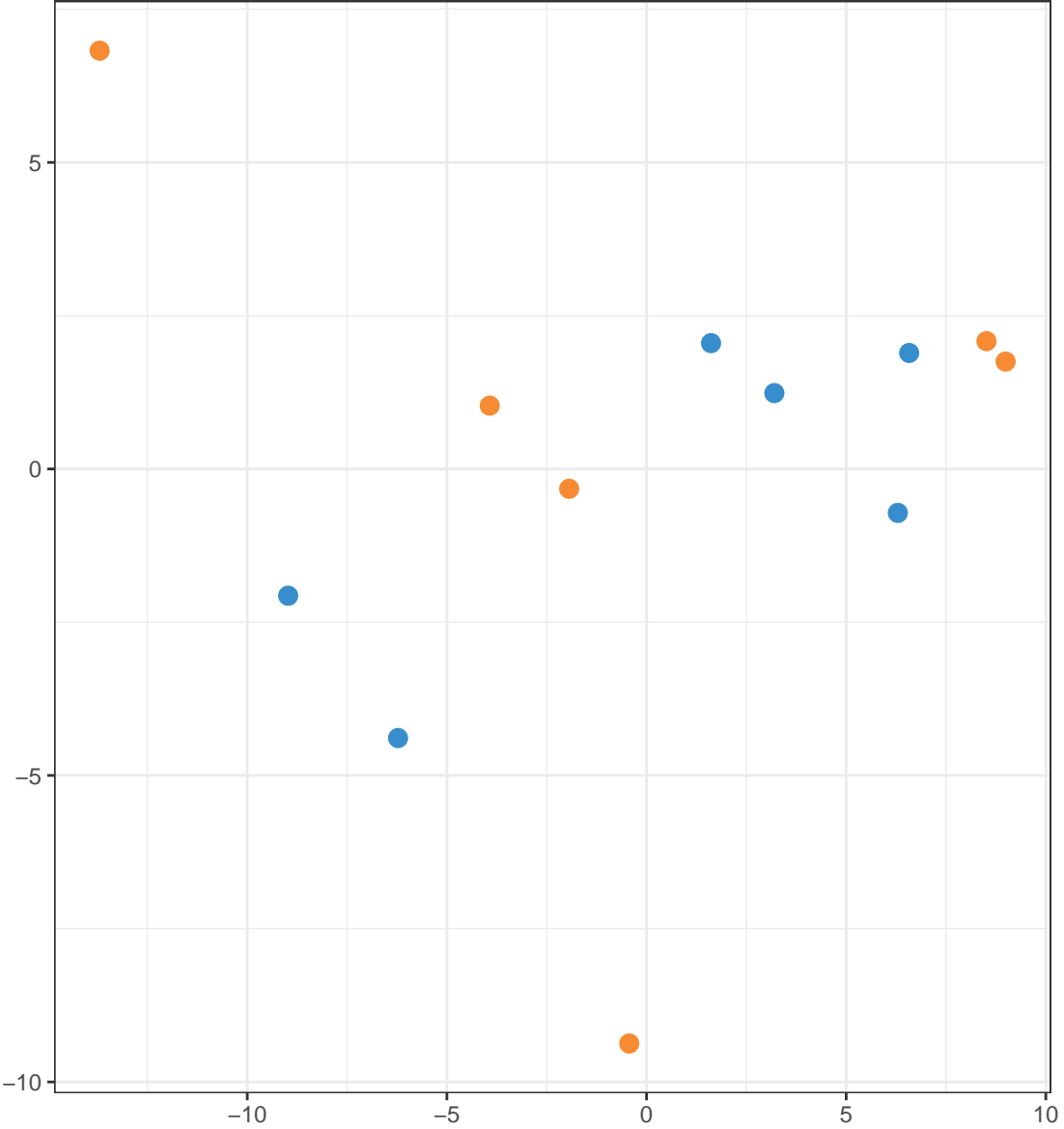


**No Impute n_PCs = 10
metabolome PCs (1,2)**



No Impute n_PCs = 10
metabolome PCs (2,3)

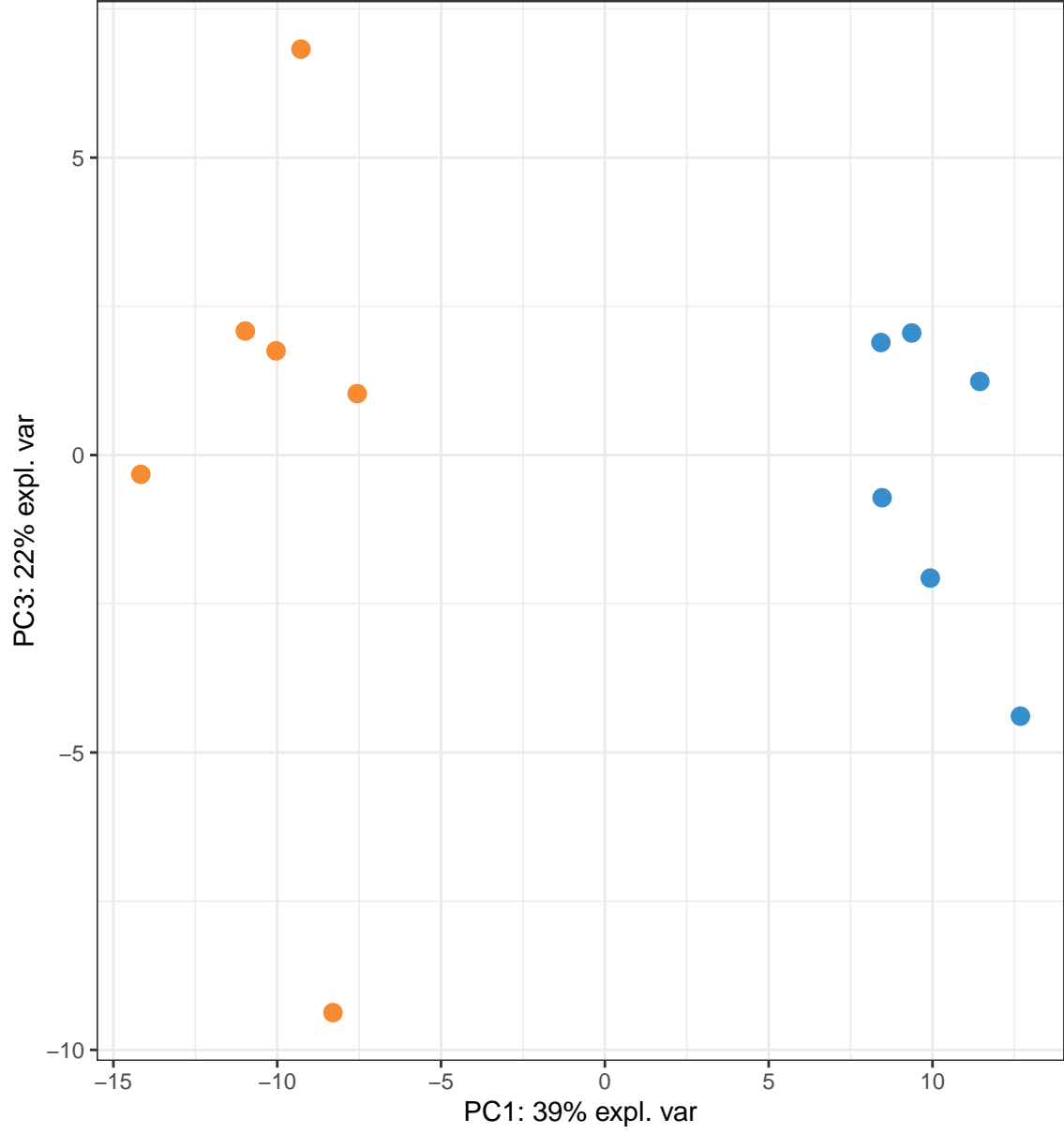
PC3: 22% expl. var



Class

- RPMI
- Sera

No Impute n_PCs = 10
metabolome PCs (1,3)

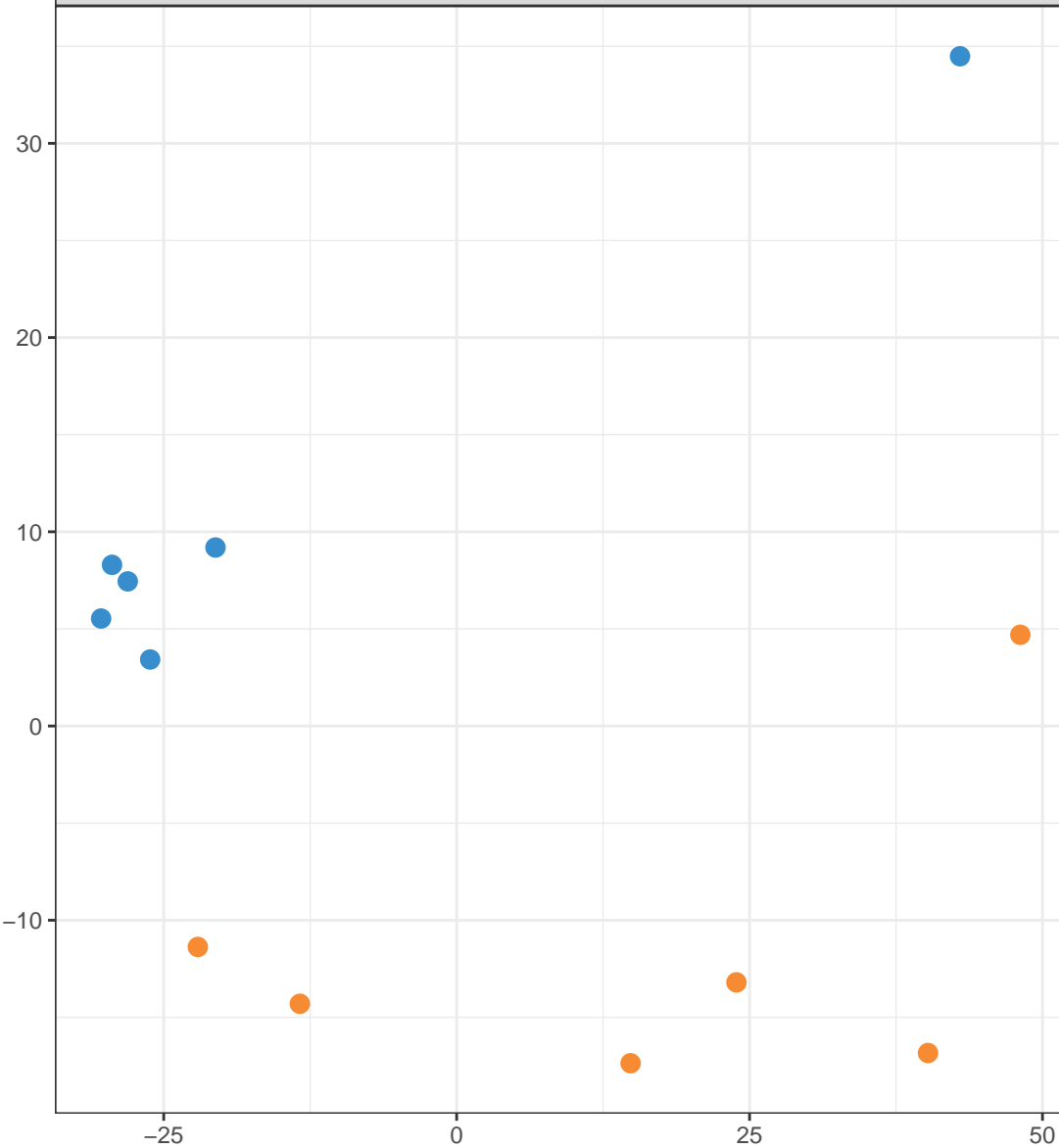


Class

- RPMI
- Sera

**No Impute n_PCs = 10
proteome PCs (1,2)**

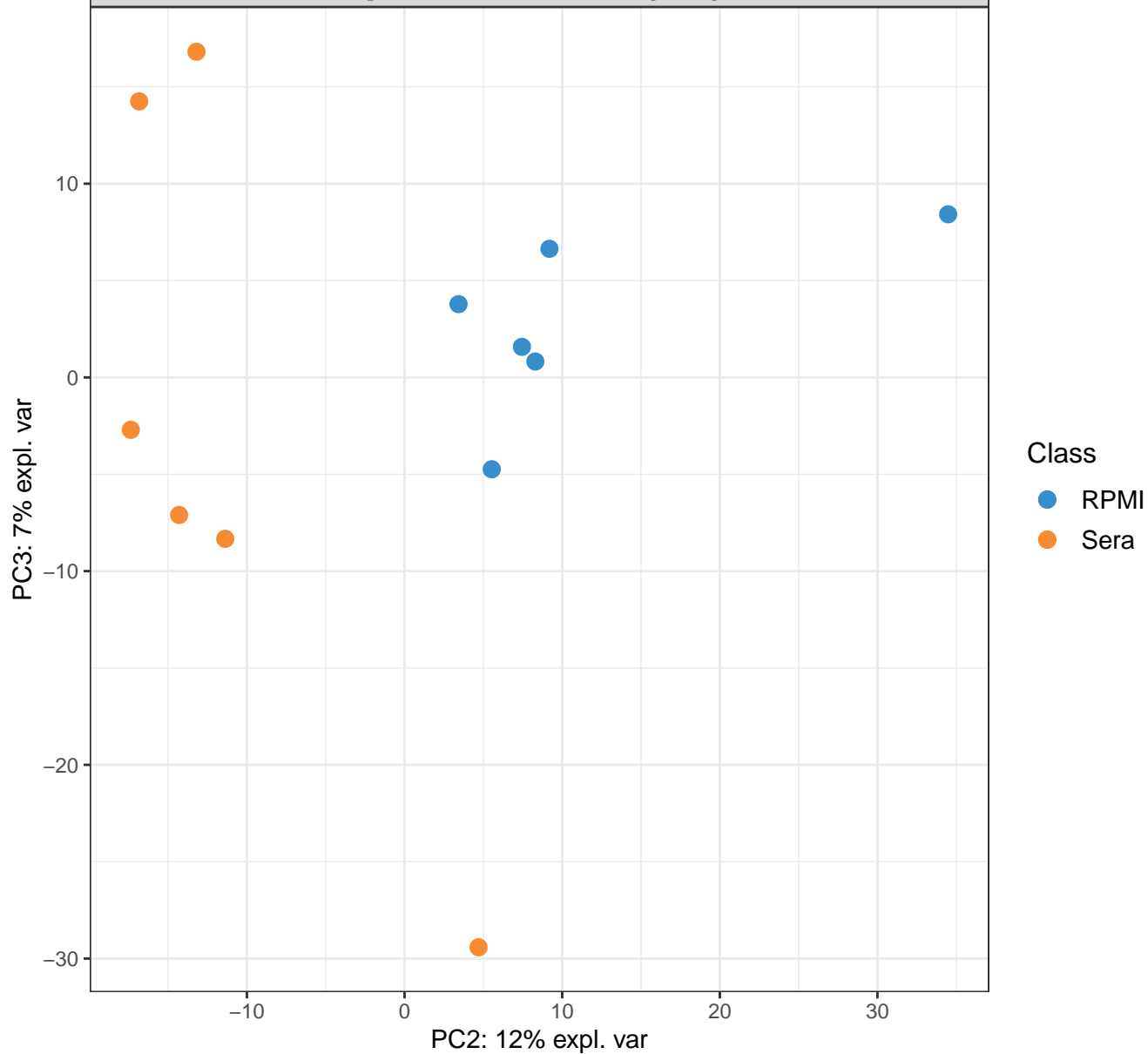
PC2: 12% expl. var



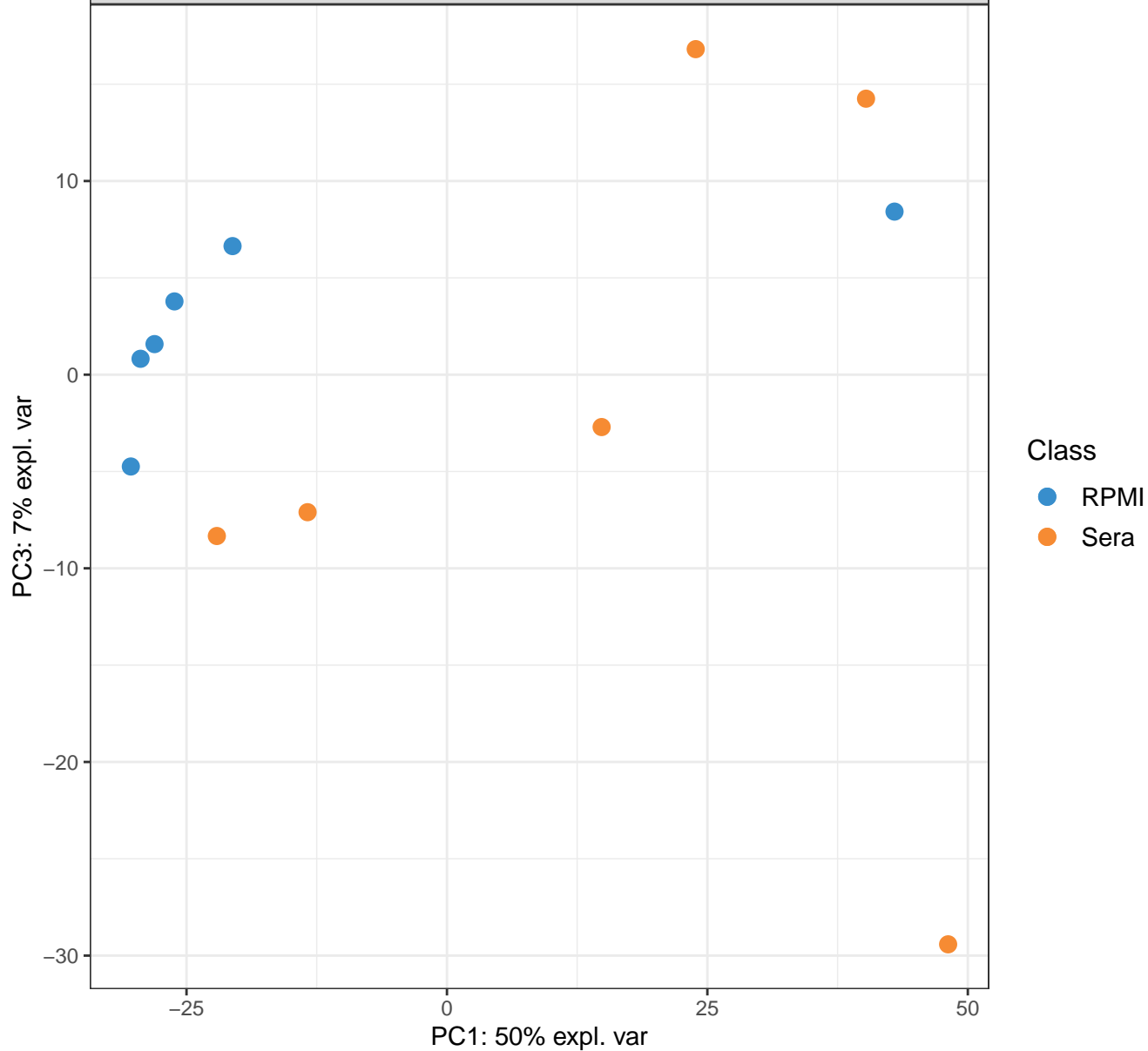
Class

● RPMI
● Sera

**No Impute n_PCs = 10
proteome PCs (2,3)**

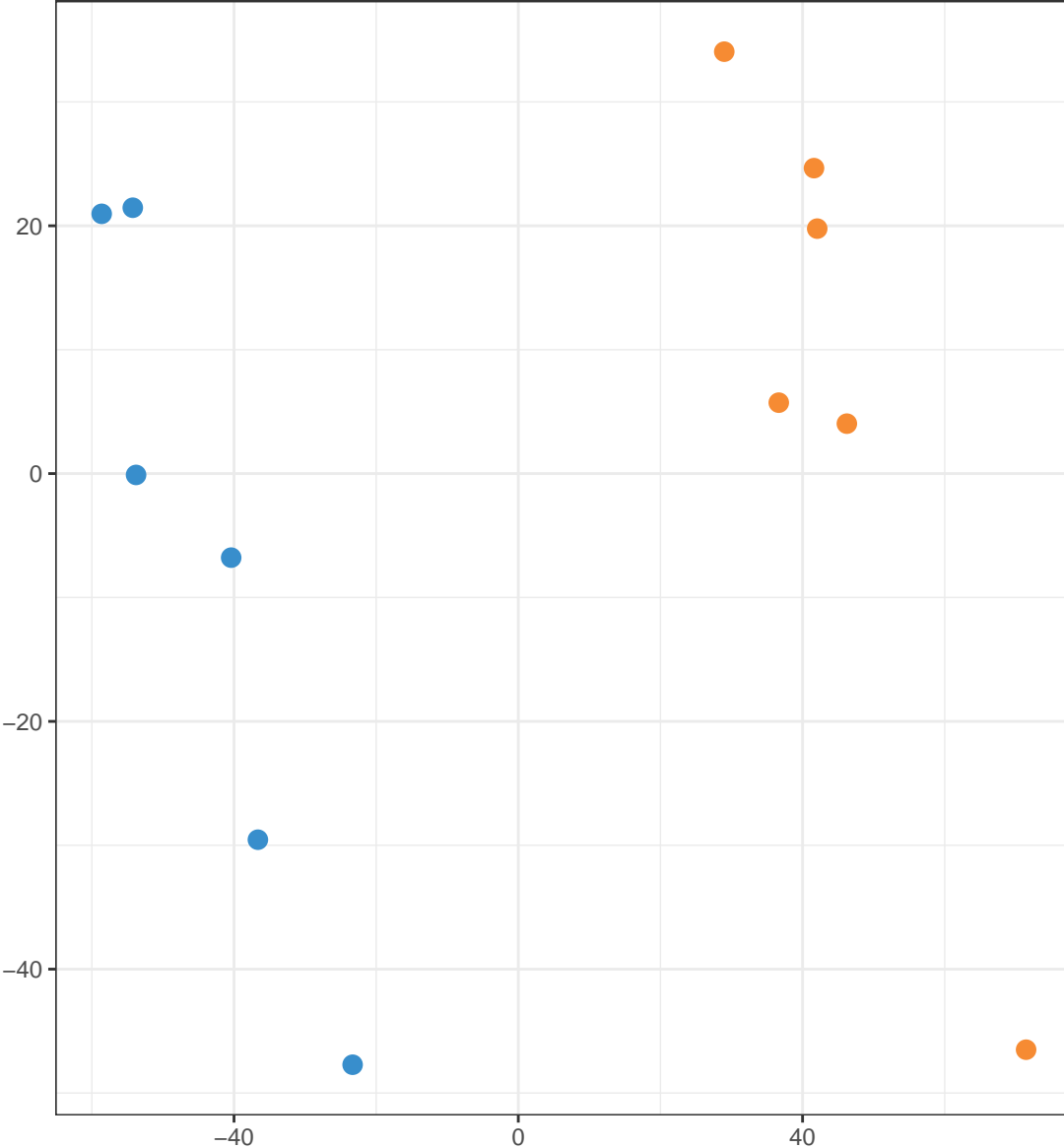


**No Impute n_PCs = 10
proteome PCs (1,3)**



**No Impute n_PCs = 10
transcriptome PCs (1,2)**

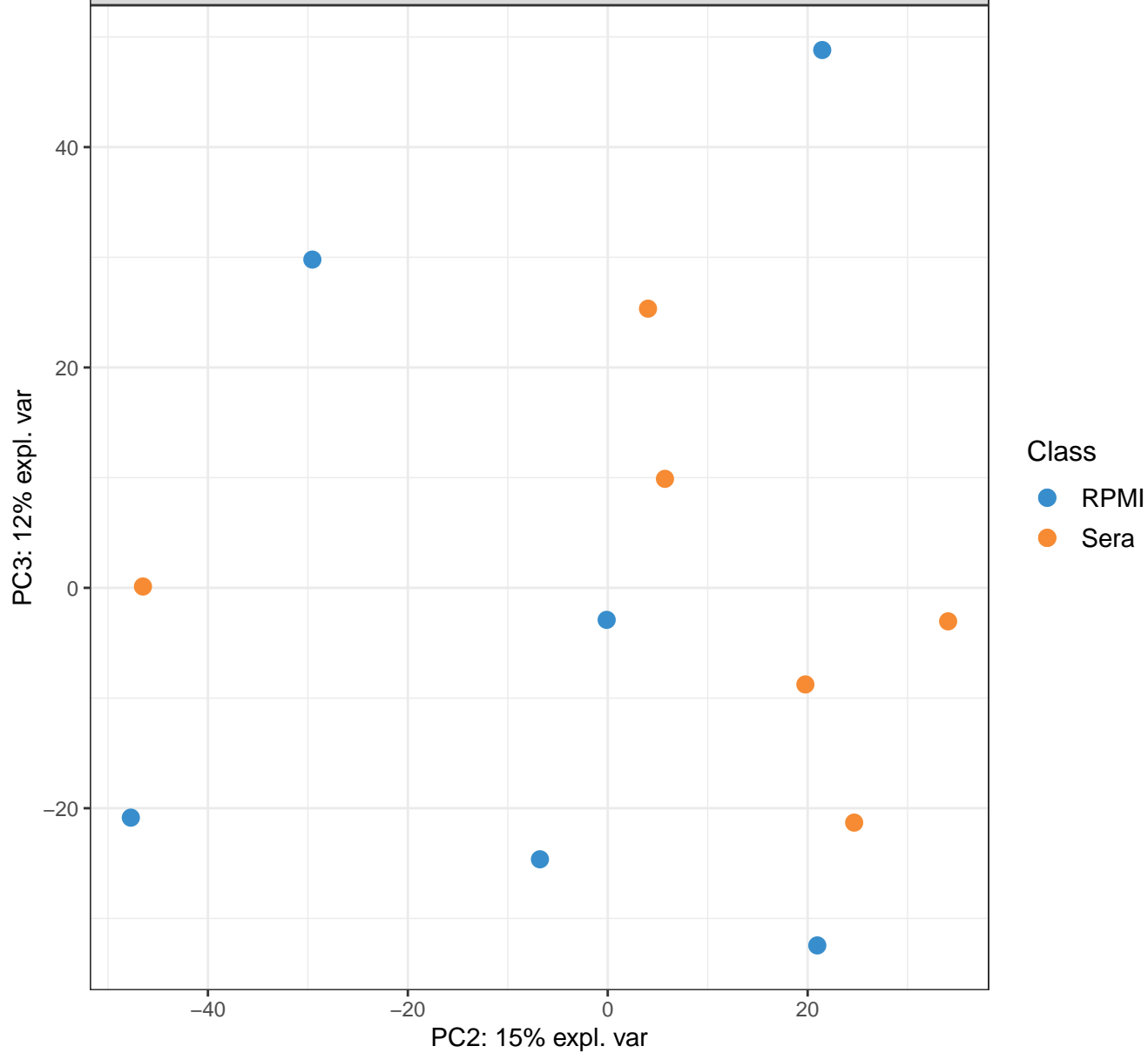
PC2: 15% expl. var



Class

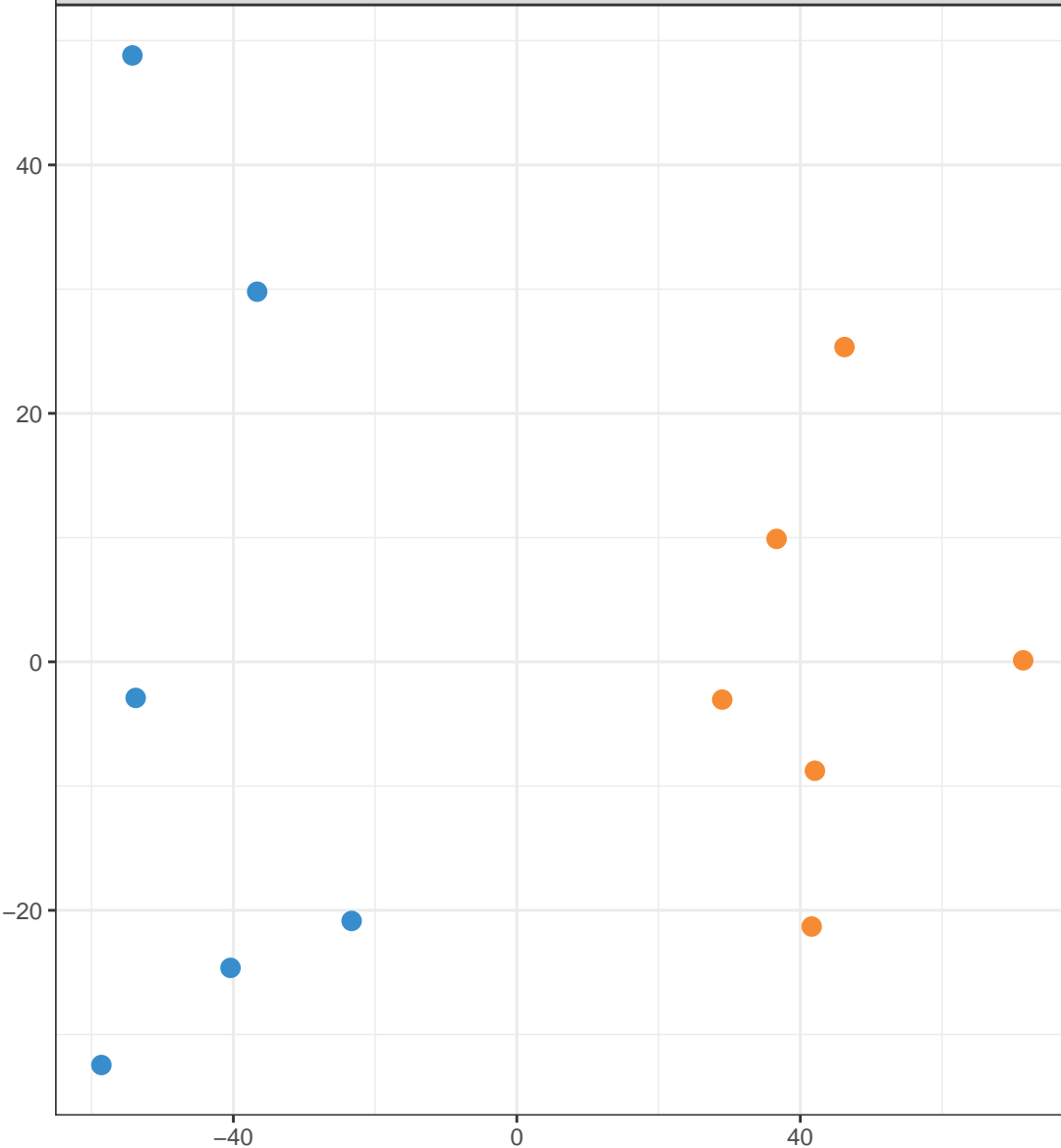
- RPMI
- Sera

**No Impute n_PCs = 10
transcriptome PCs (2,3)**



**No Impute n_PCs = 10
transcriptome PCs (1,3)**

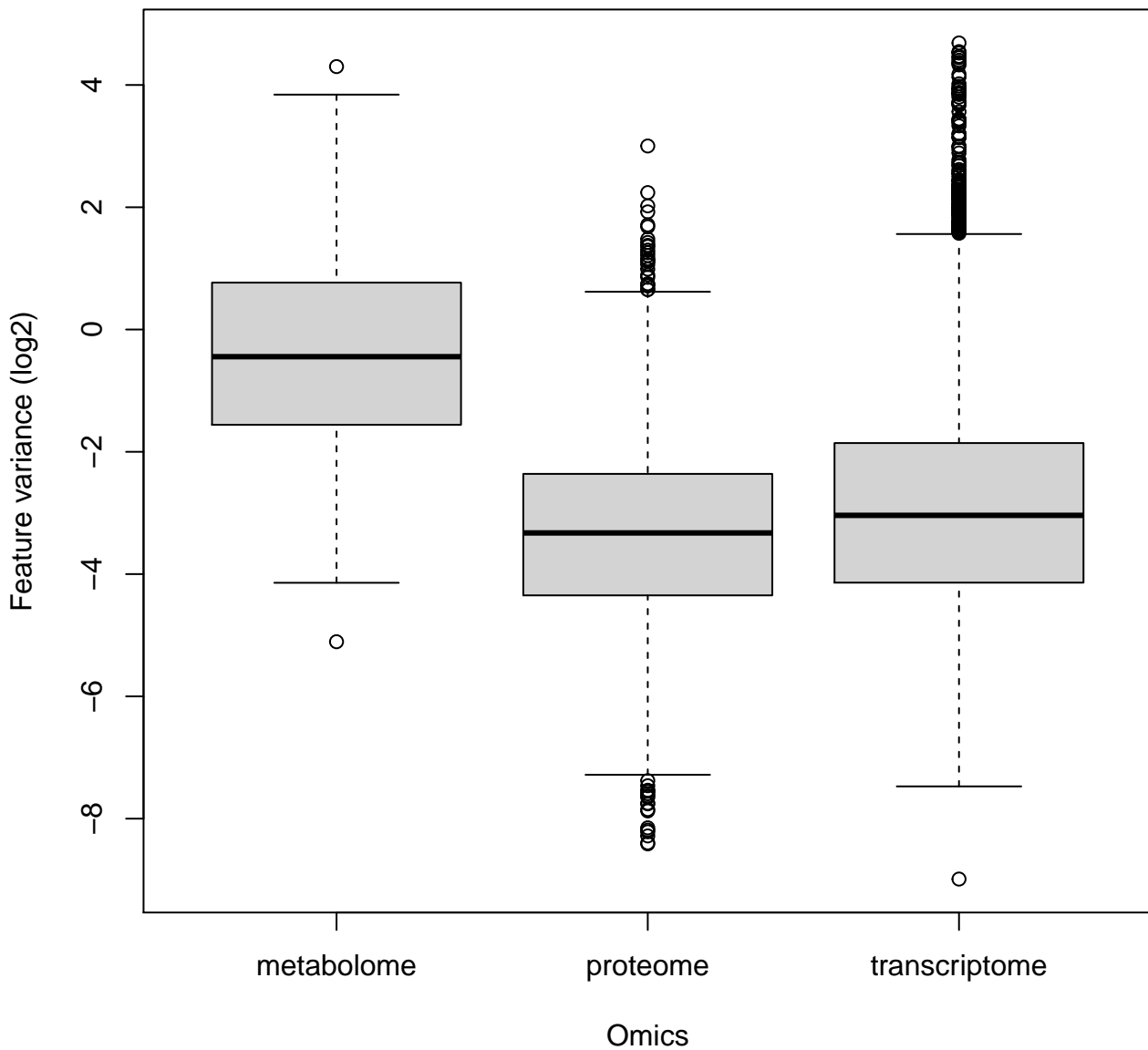
PC3: 12% expl. var



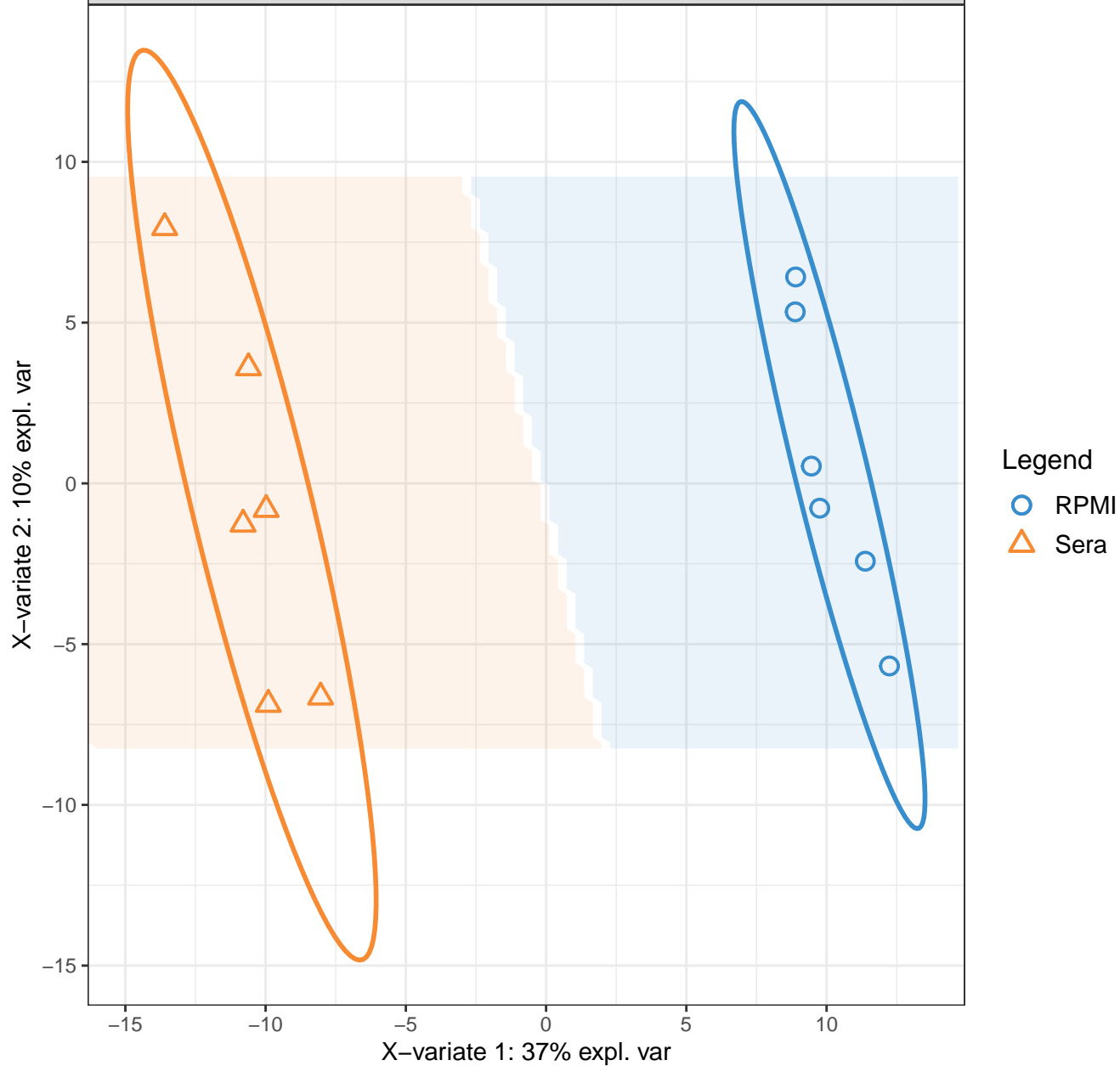
Class

- RPMI
- Sera

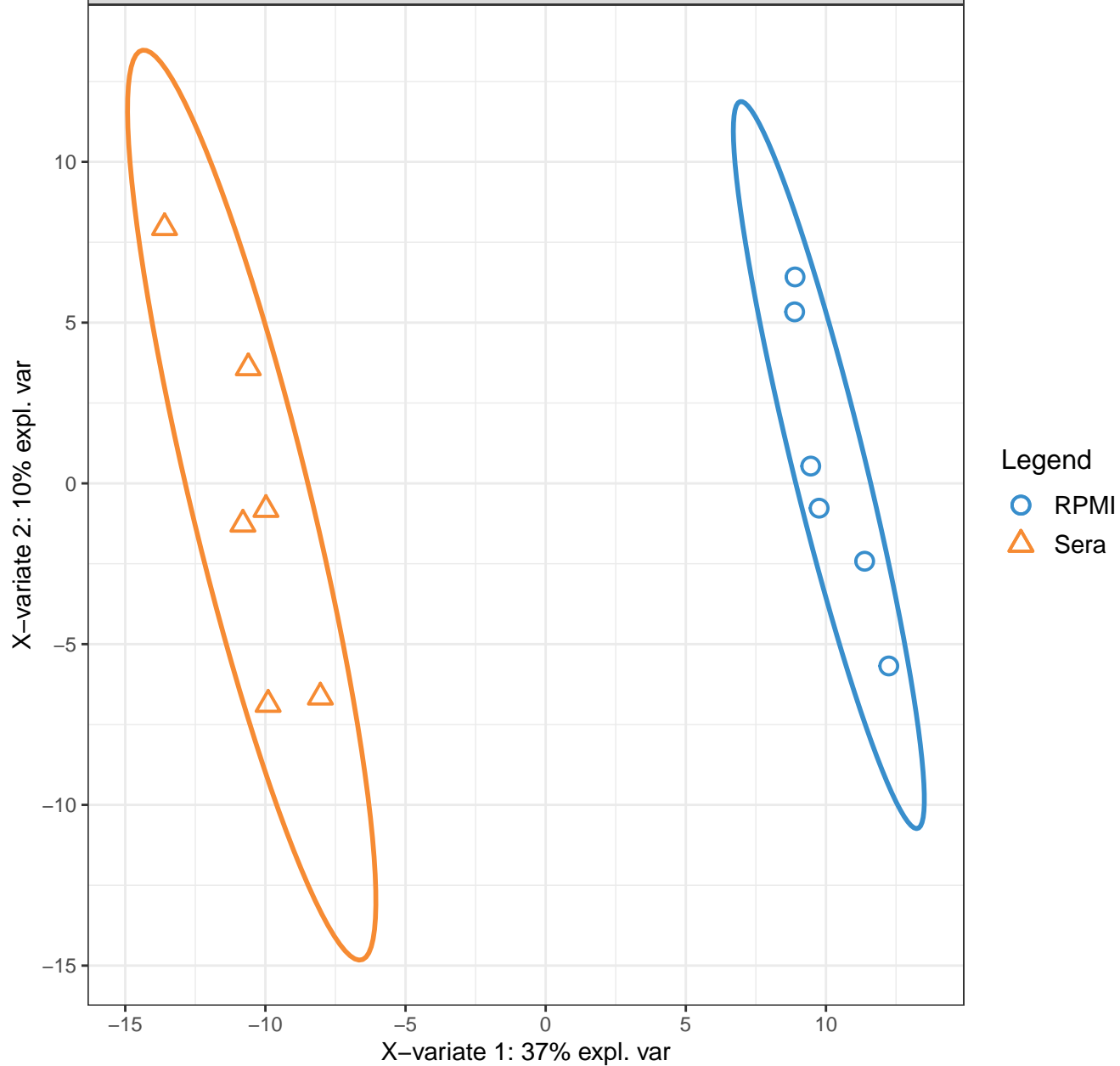
Feature variances (log2) per omics



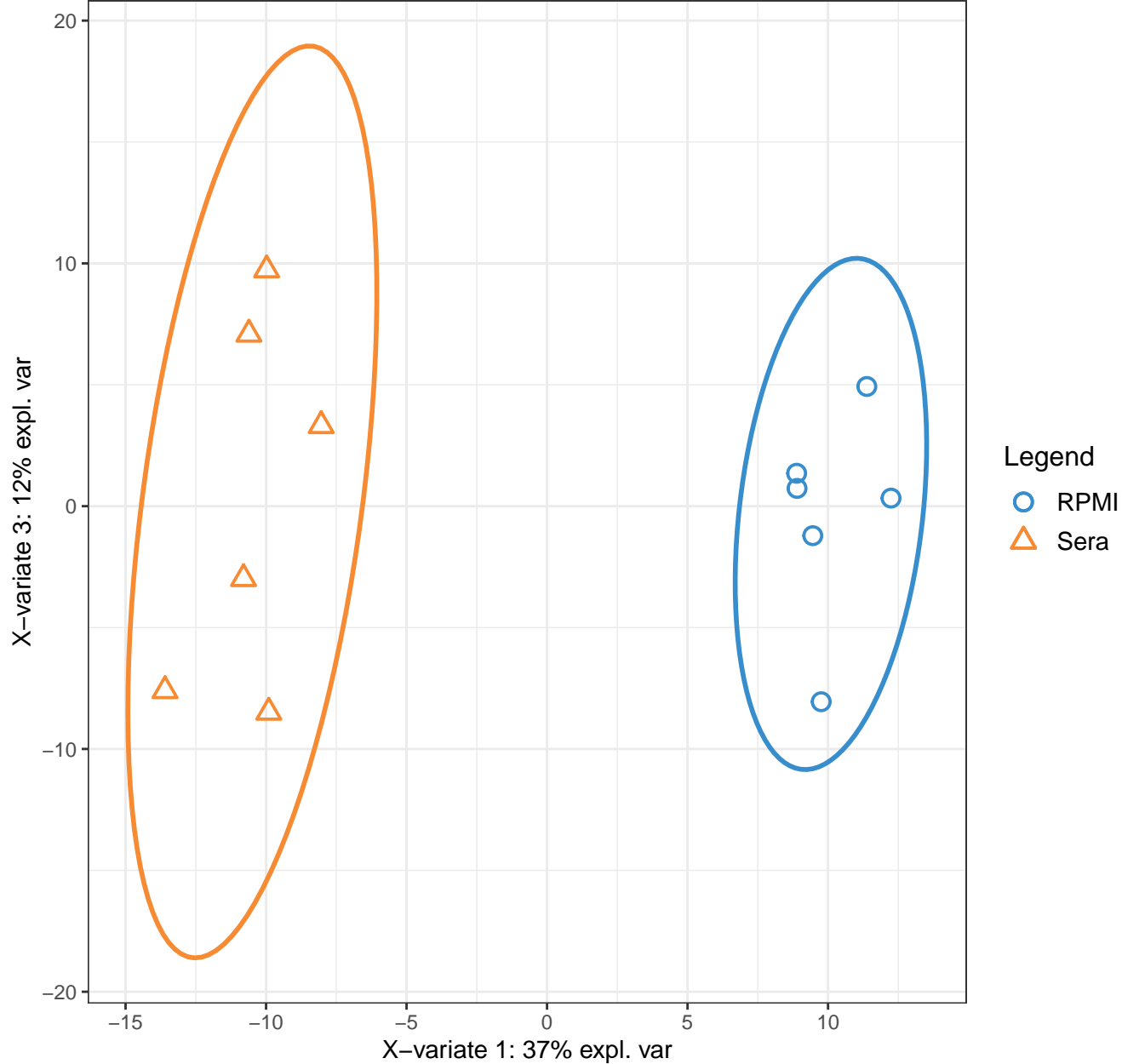
metabolome PLSDA single 1/2



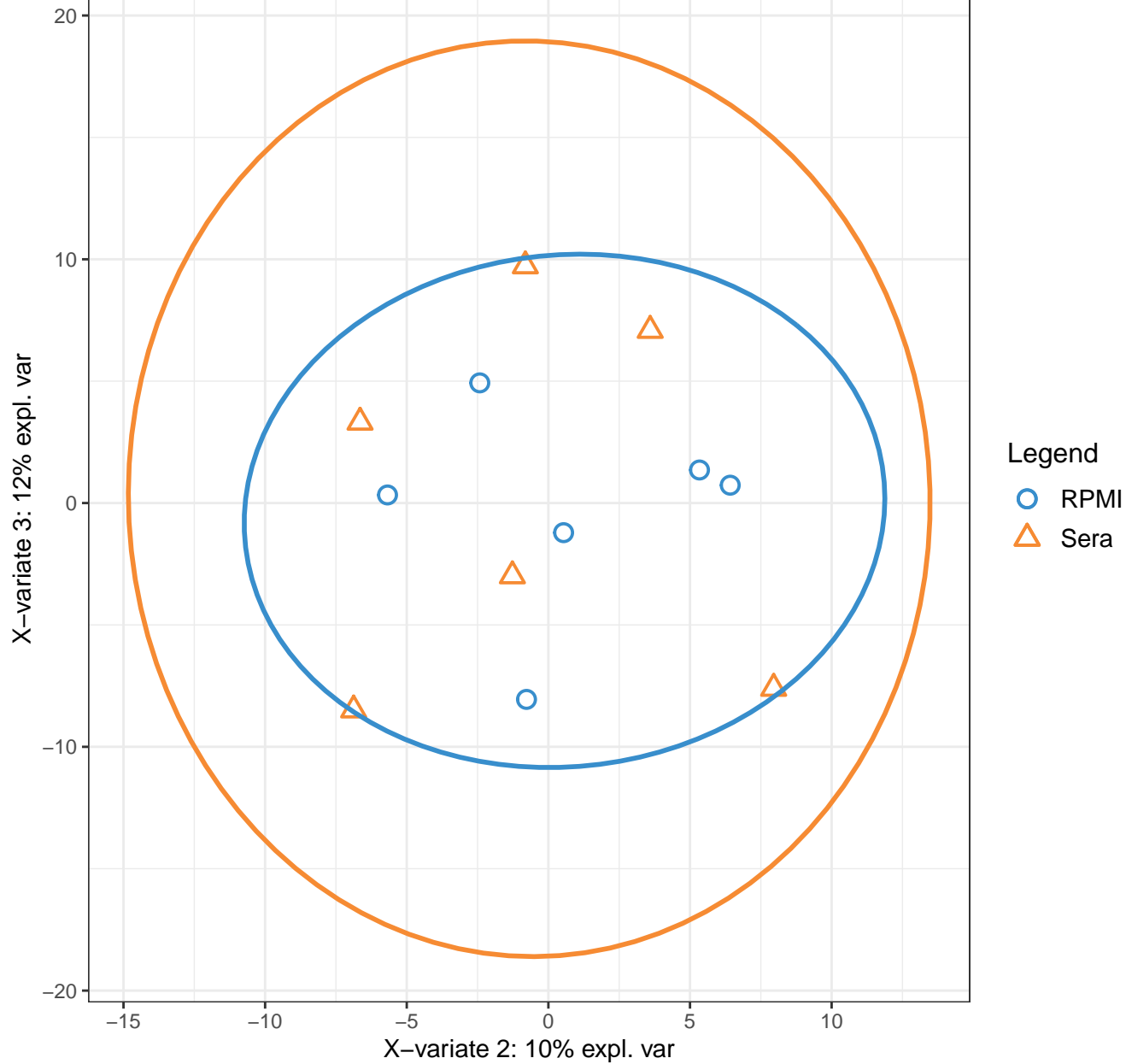
metabolome PLSDA single 1/2

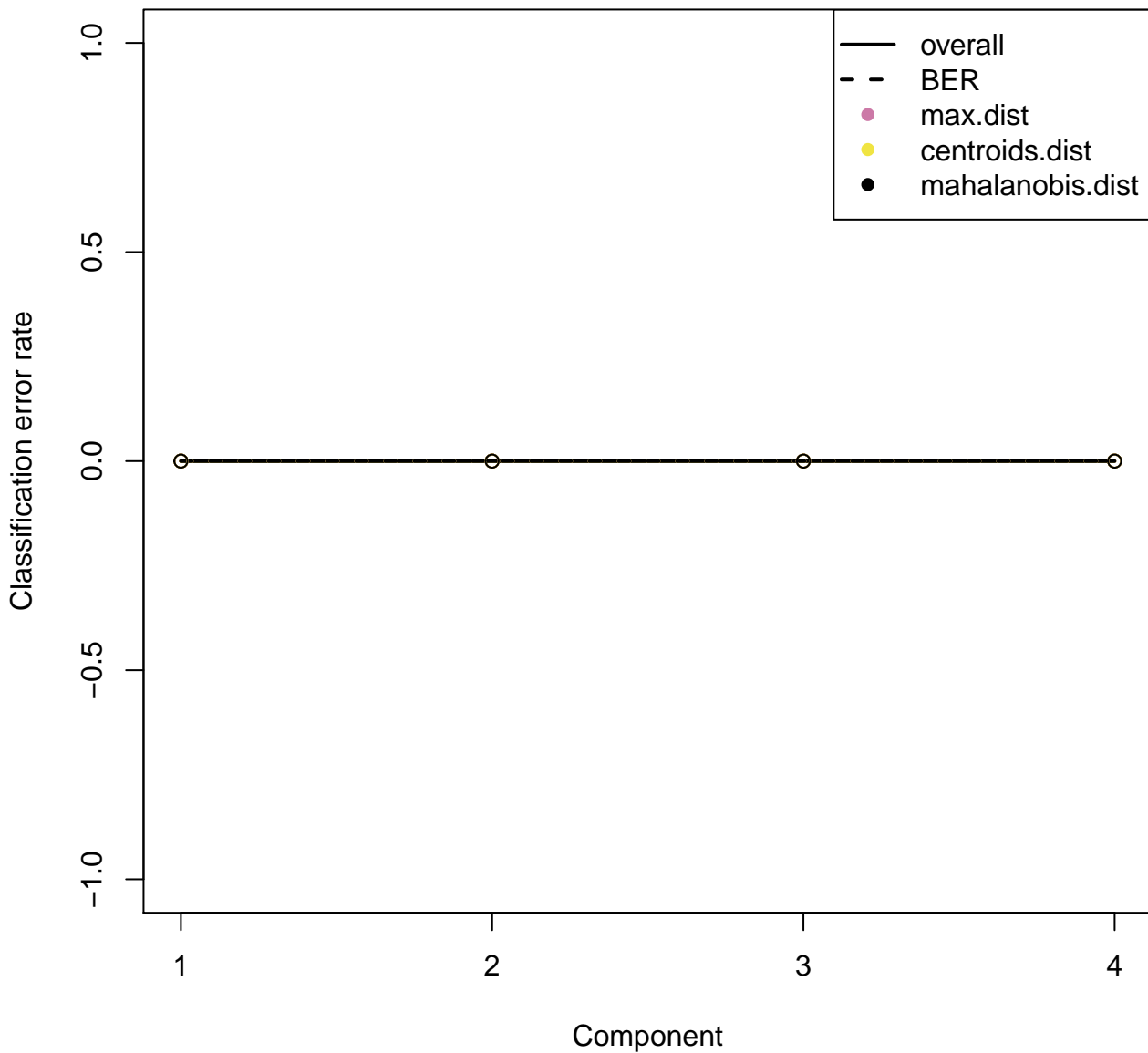


metabolome PLSDA single 1/3

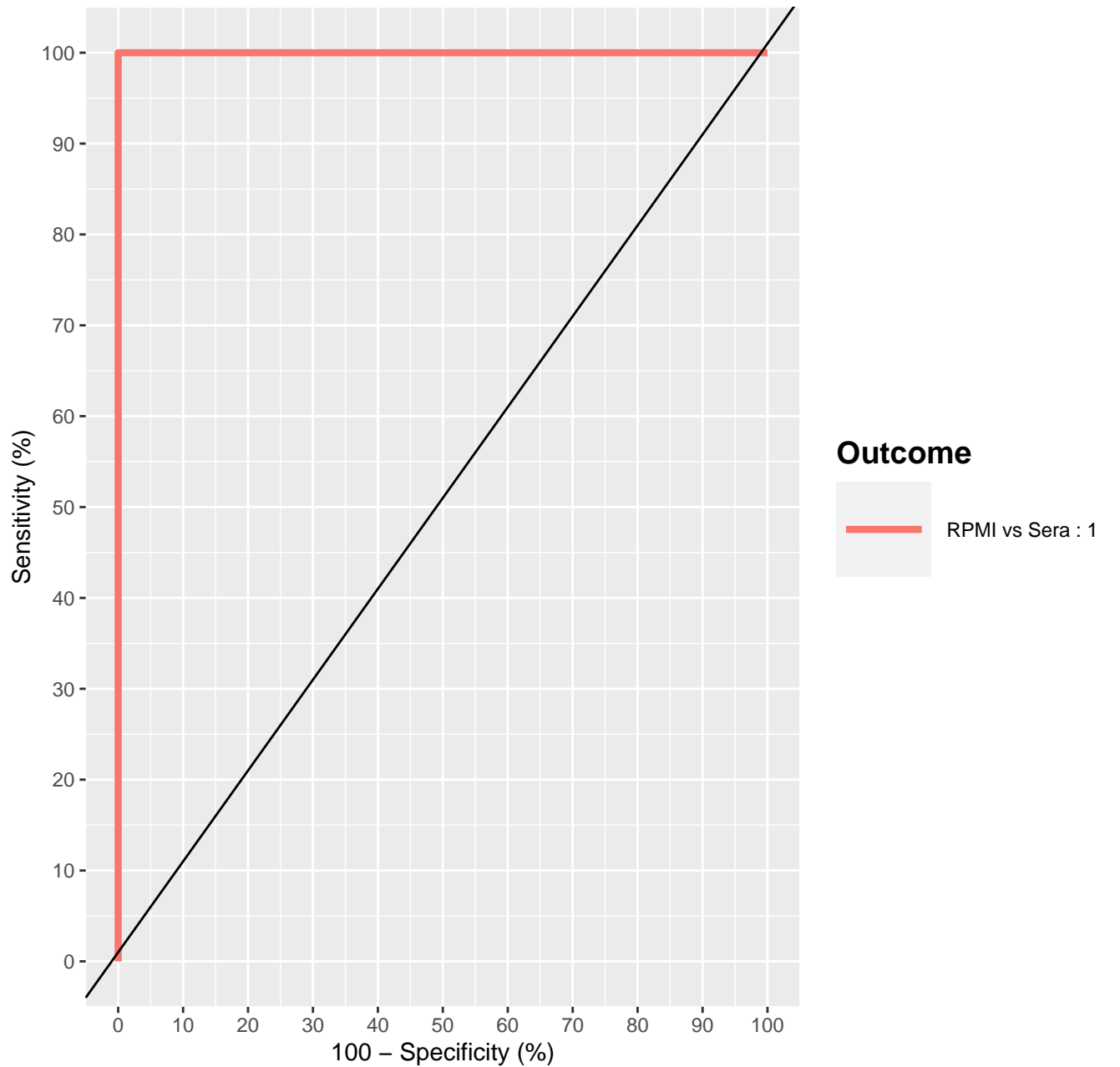


metabolome PLSDA single 2/3

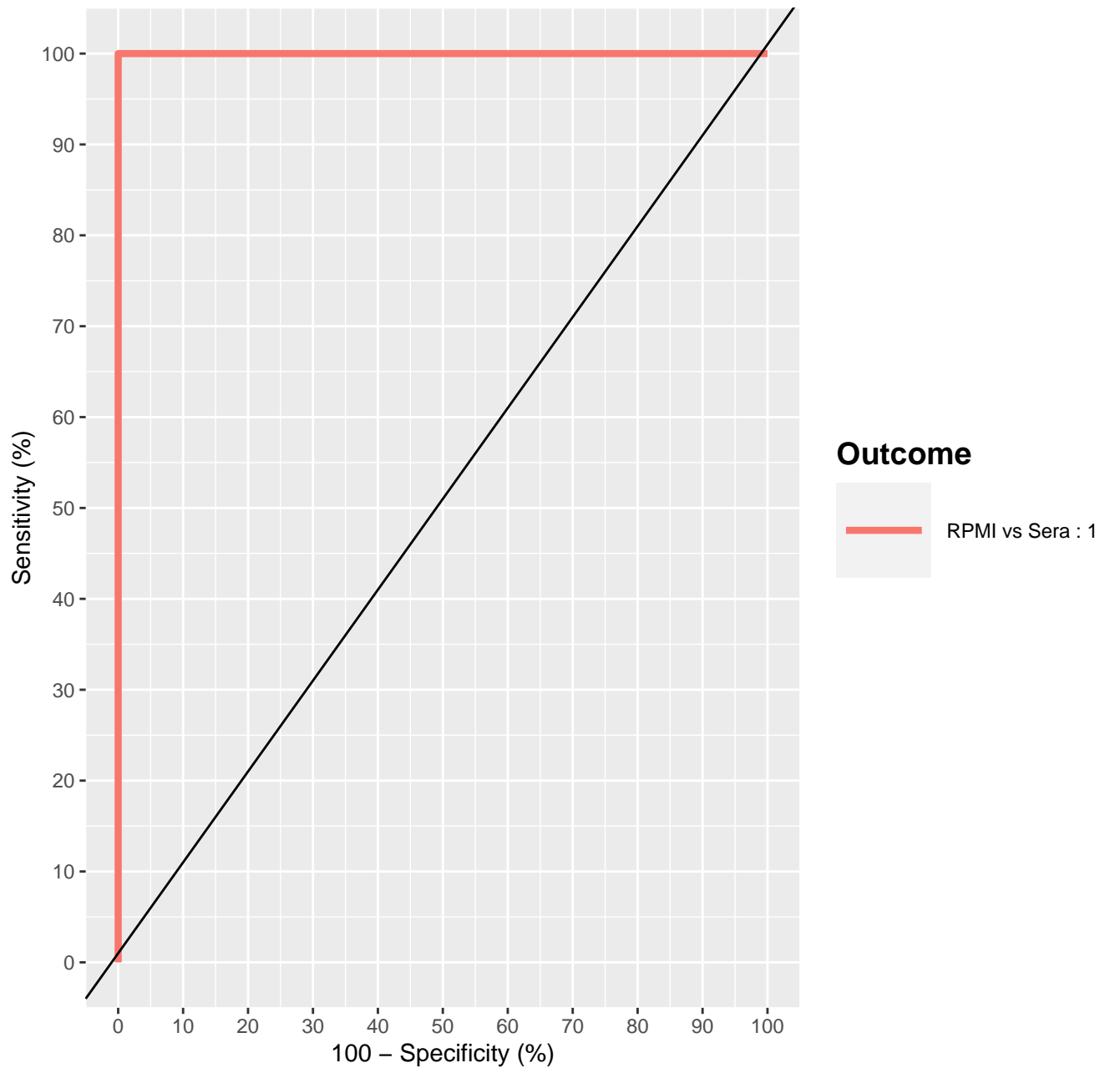




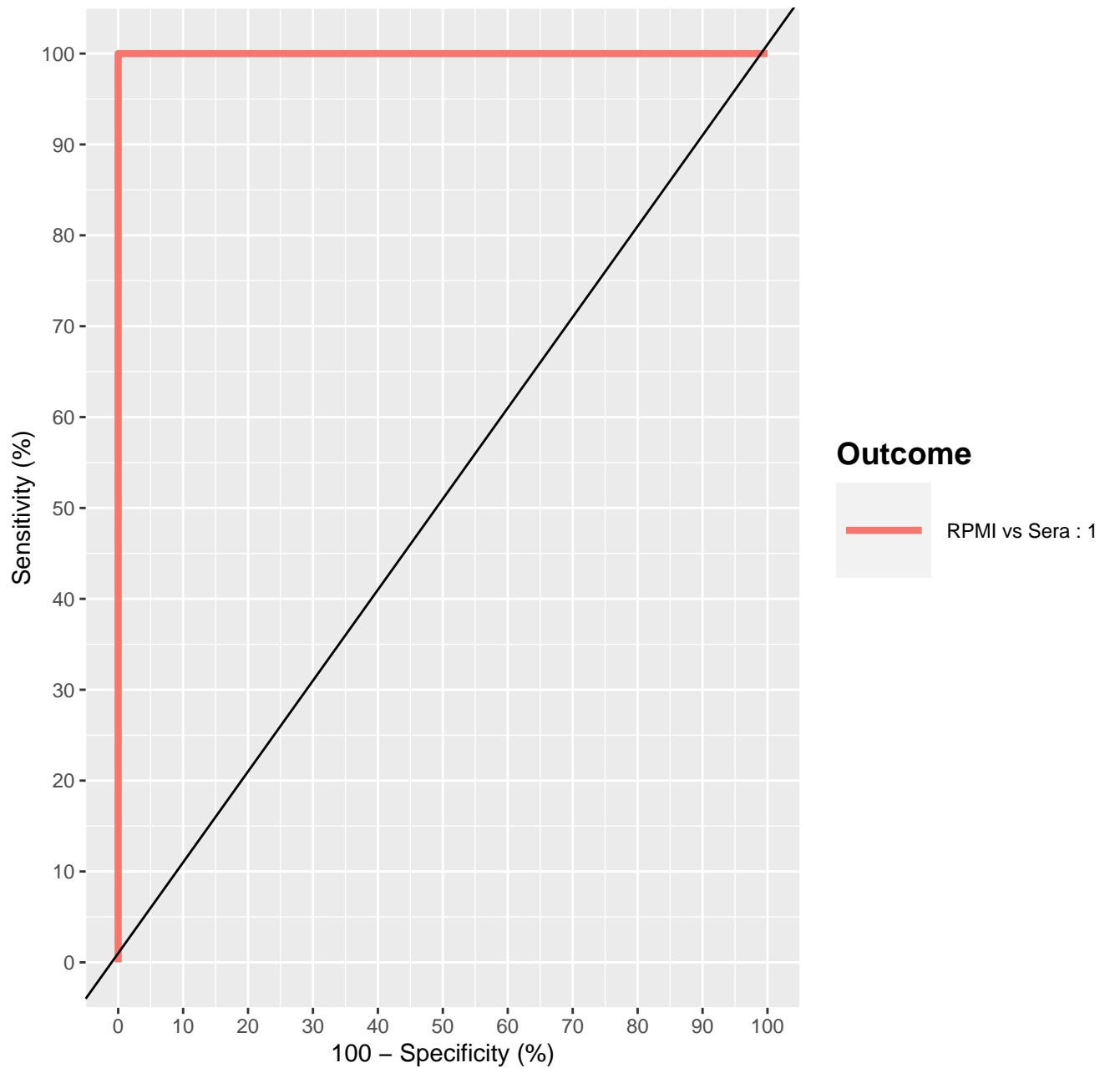
ROC Curve Using Comp(s): 1



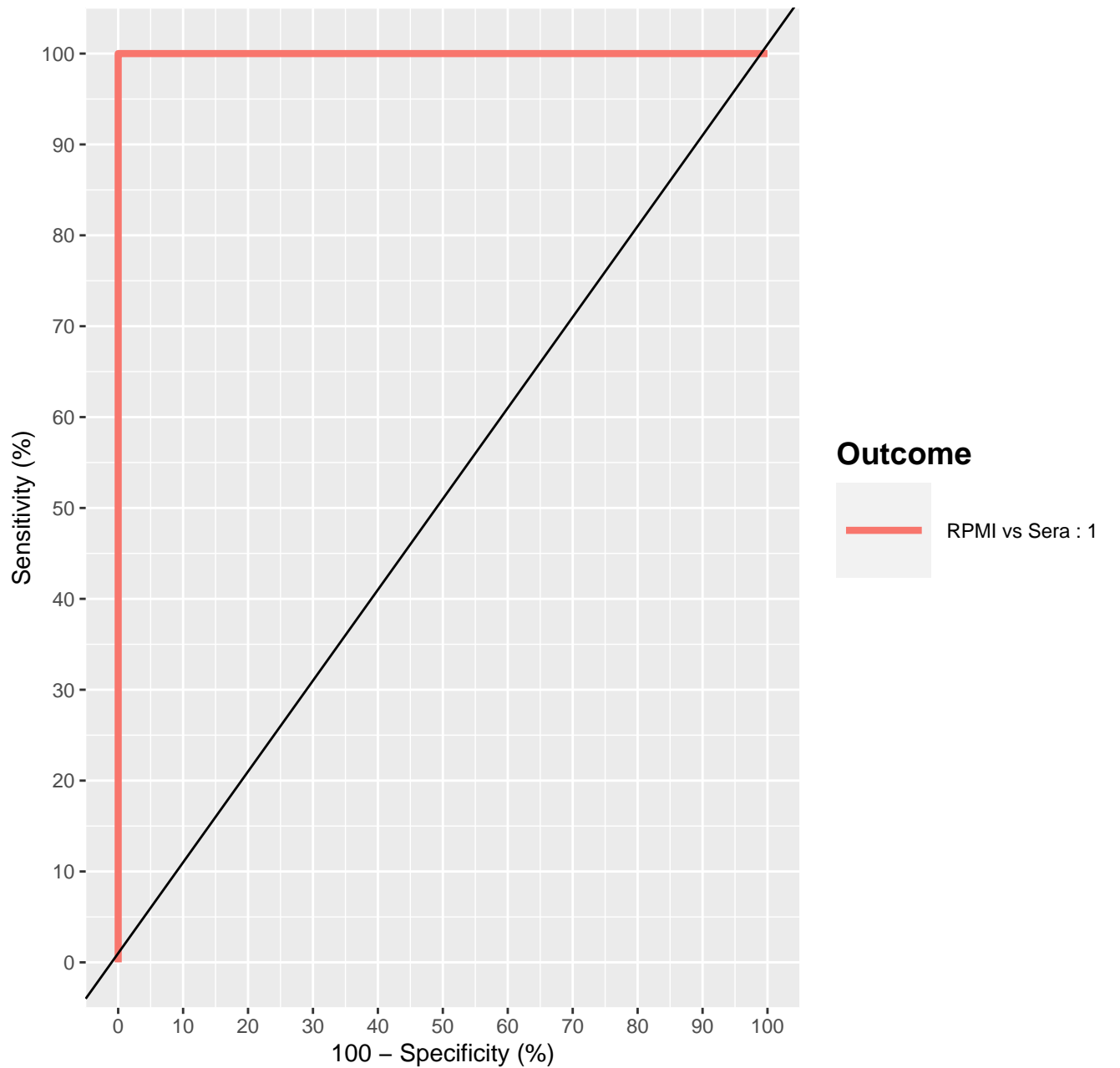
ROC Curve Using Comp(s): 1, 2



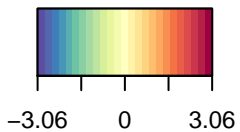
ROC Curve Using Comp(s): 1, 2, 3



ROC Curve Using Comp(s): 1, 2, 3, 4



Color key

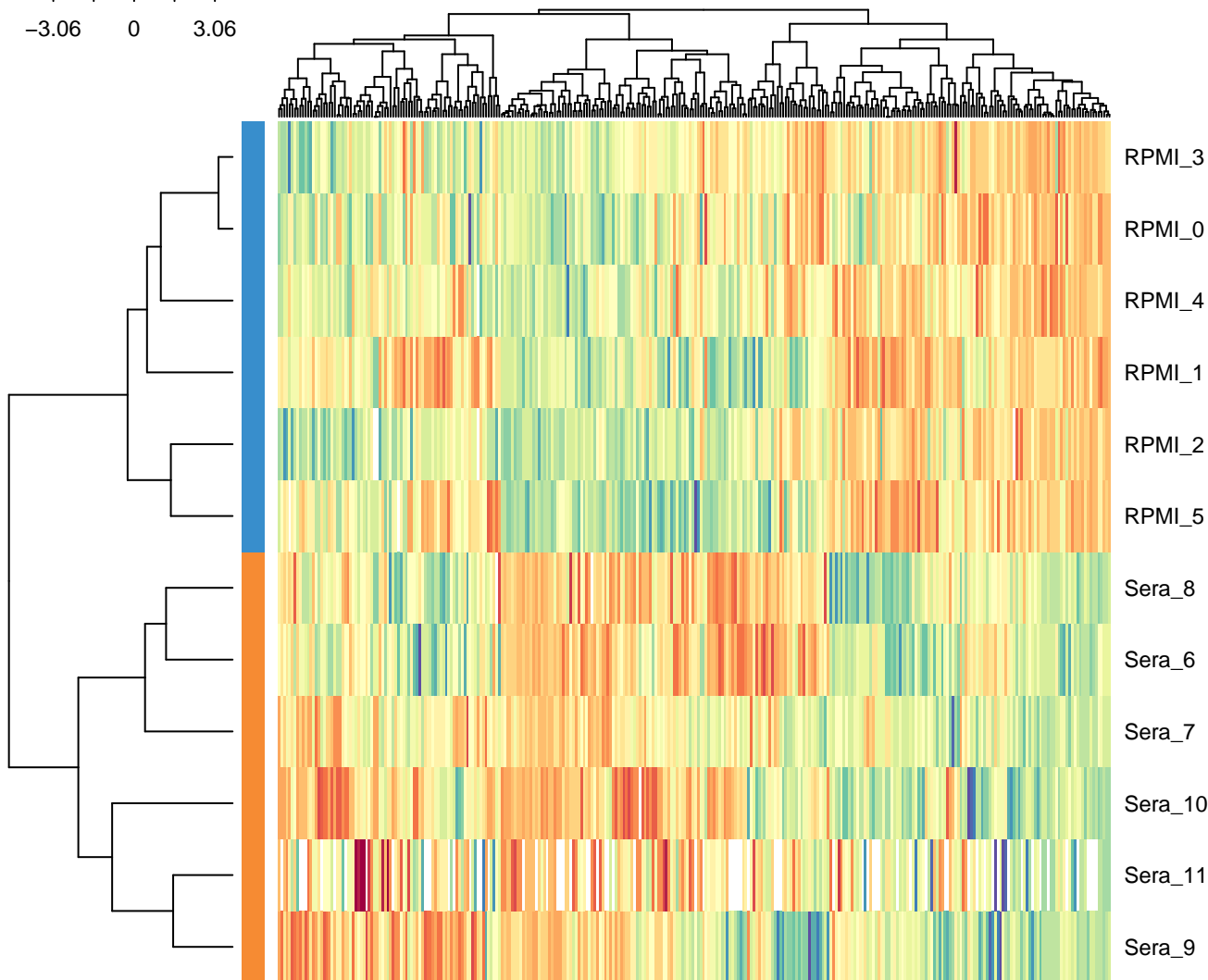


PLSDA

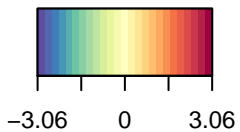
Status

RPMI

Sera



Color key

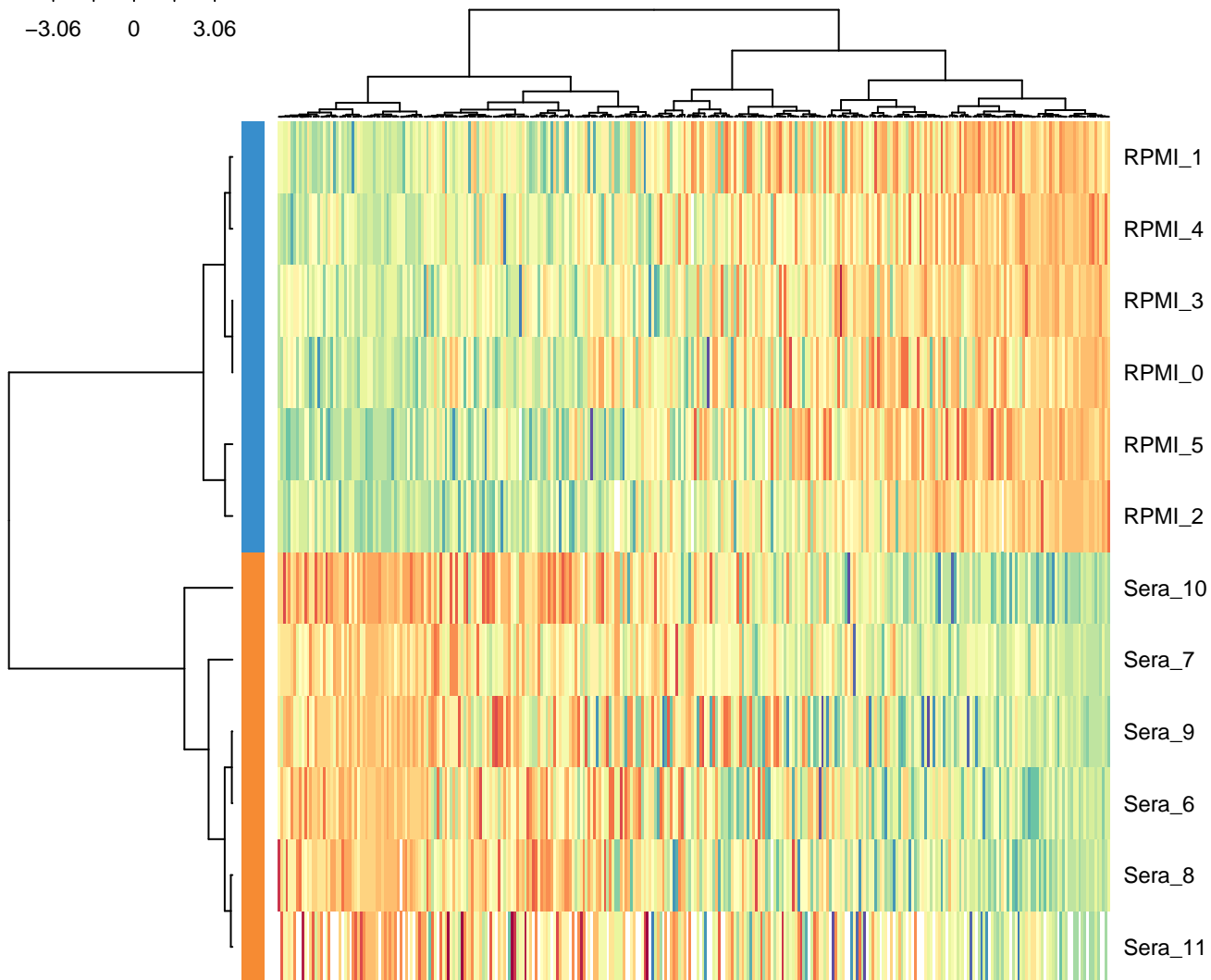


PLSDA Component 1

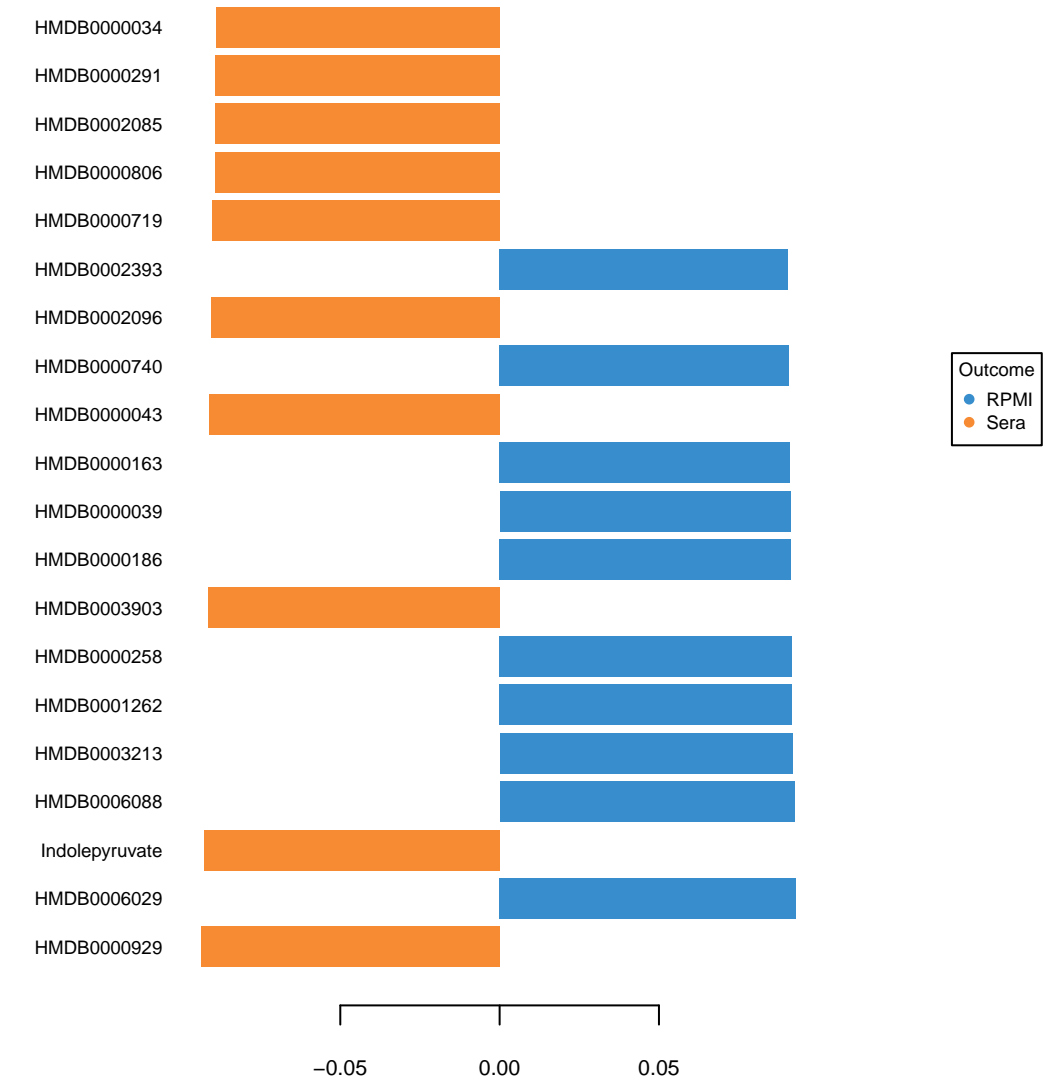
Status

RPMI

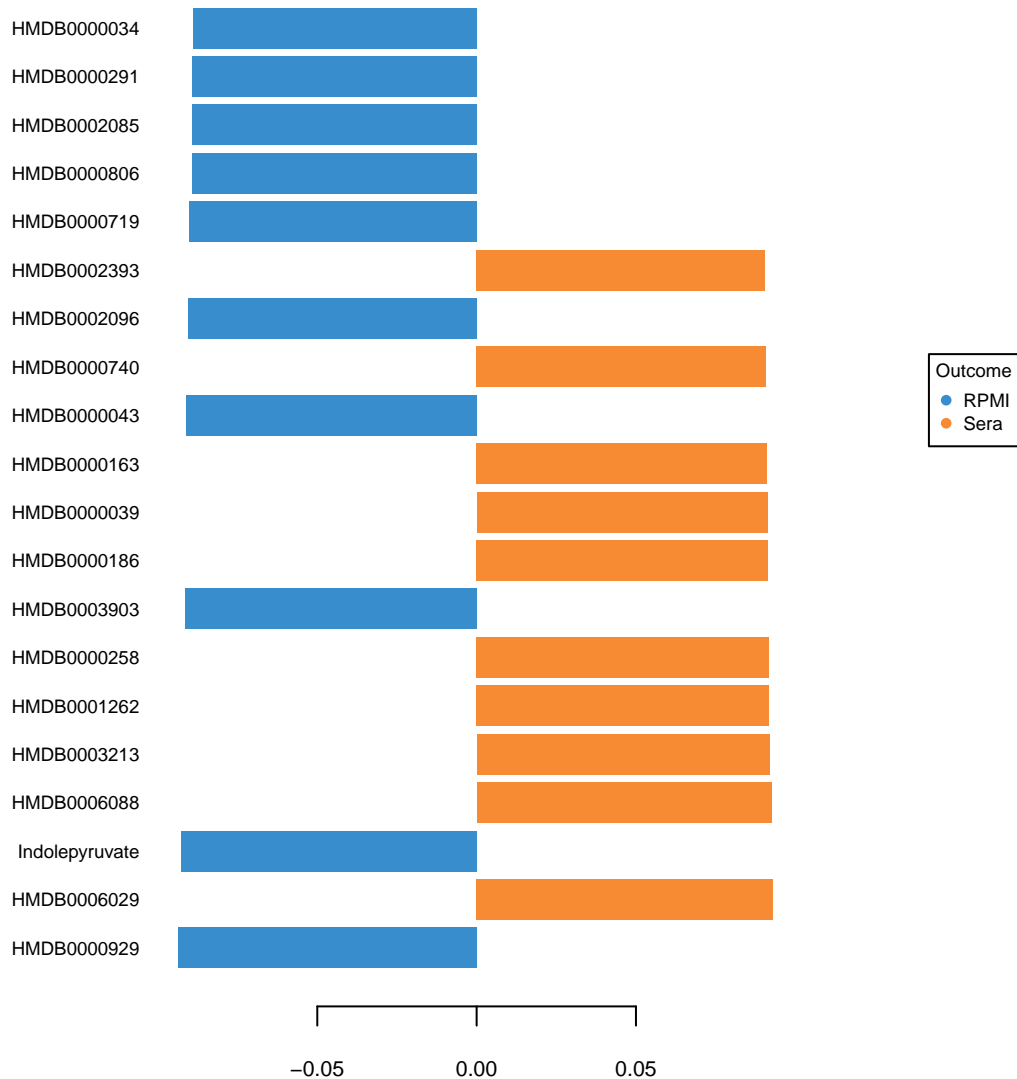
Sera



metabolome 1 PLSDA max load

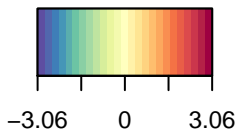


metabolome 1 PLSDA min load



PLSDA Component 2

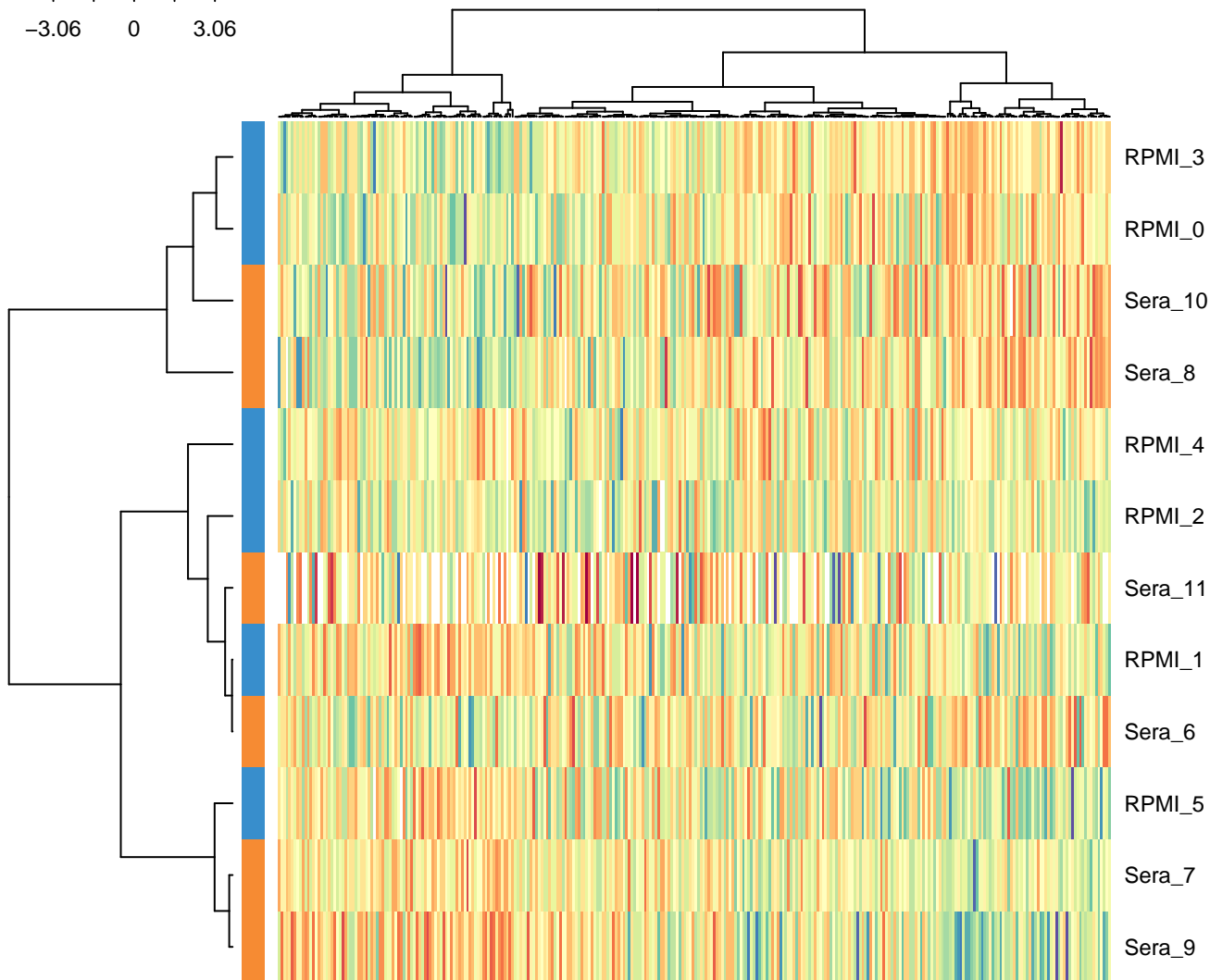
Color key



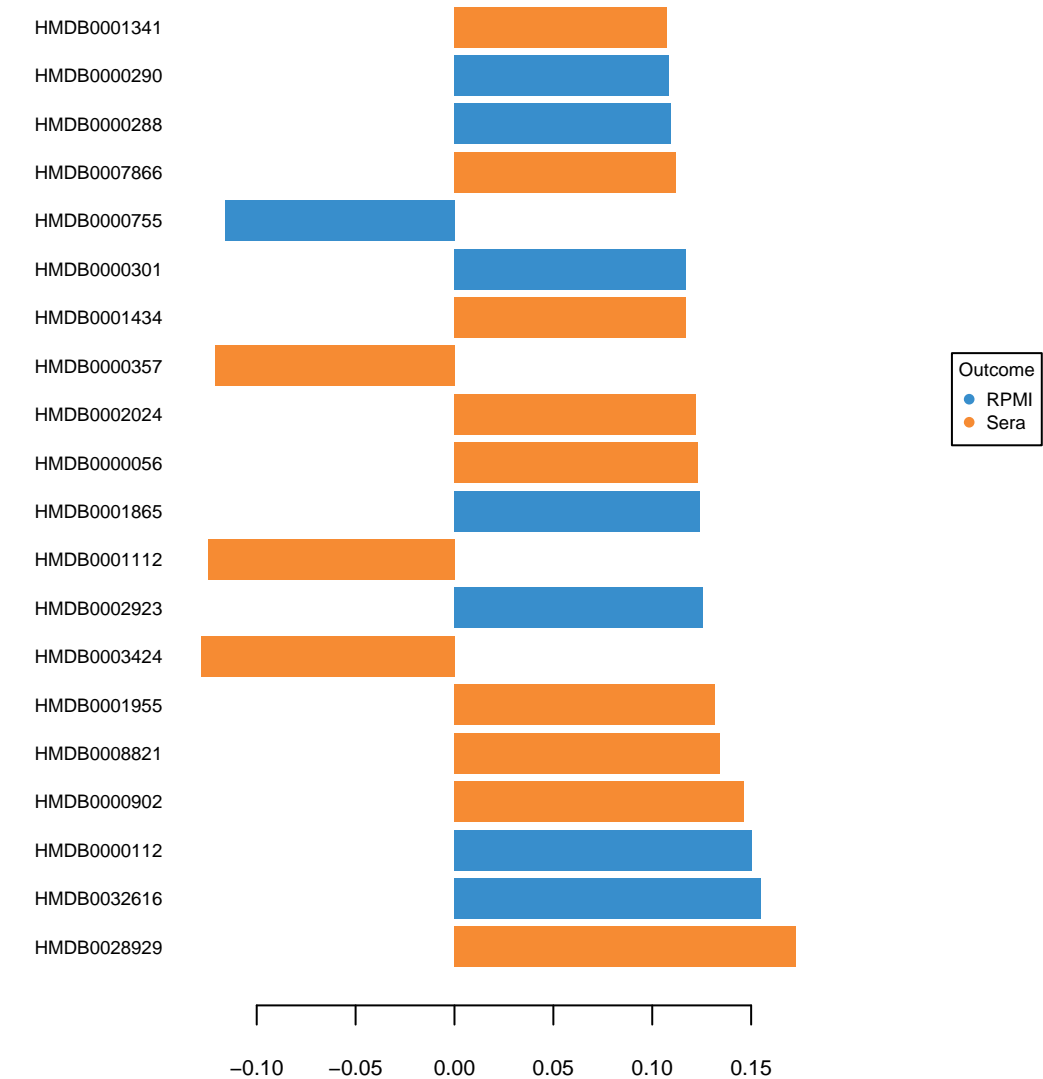
Status

RPMI

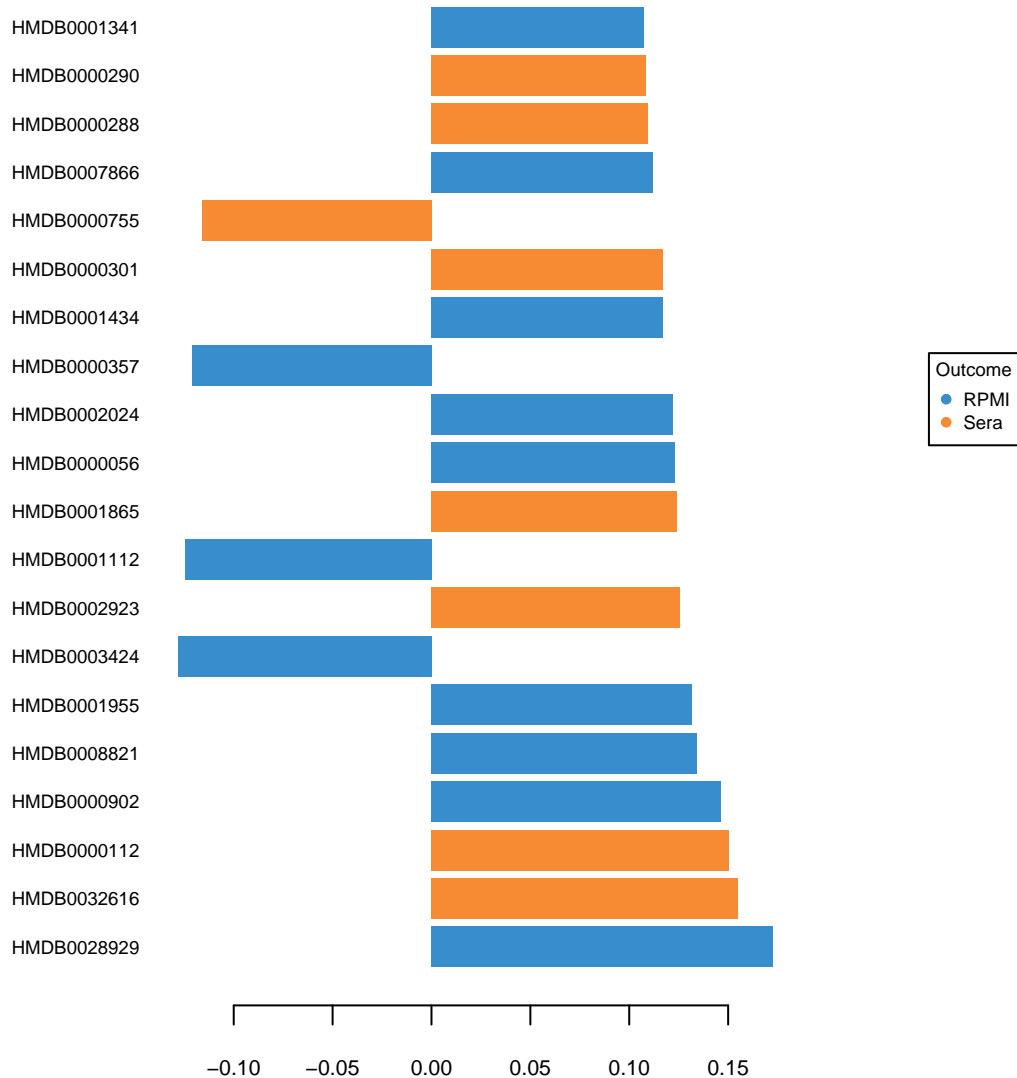
Sera



metabolome 2 PLSDA max load

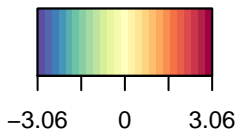


metabolome 2 PLSDA min load



PLSDA Component 3

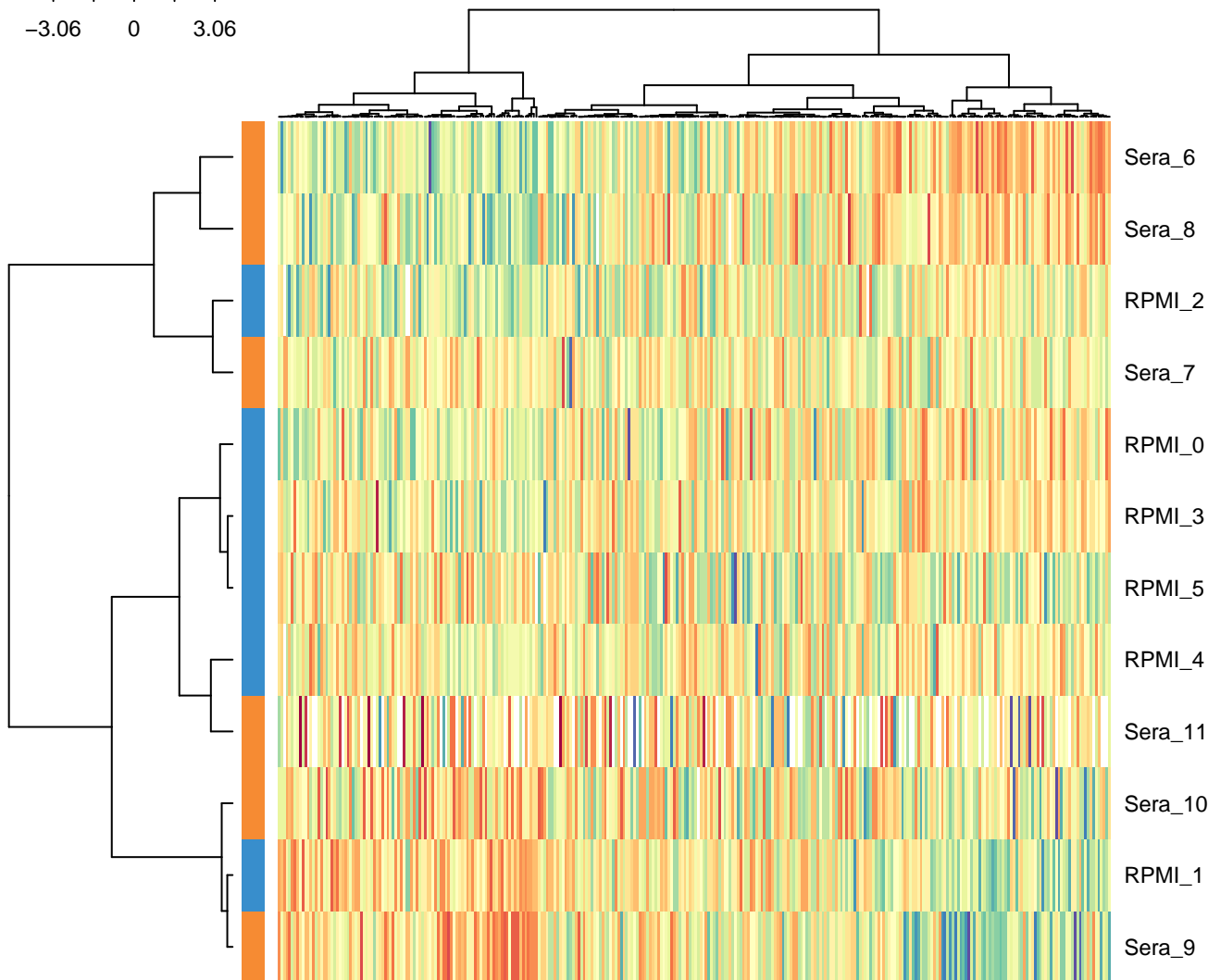
Color key



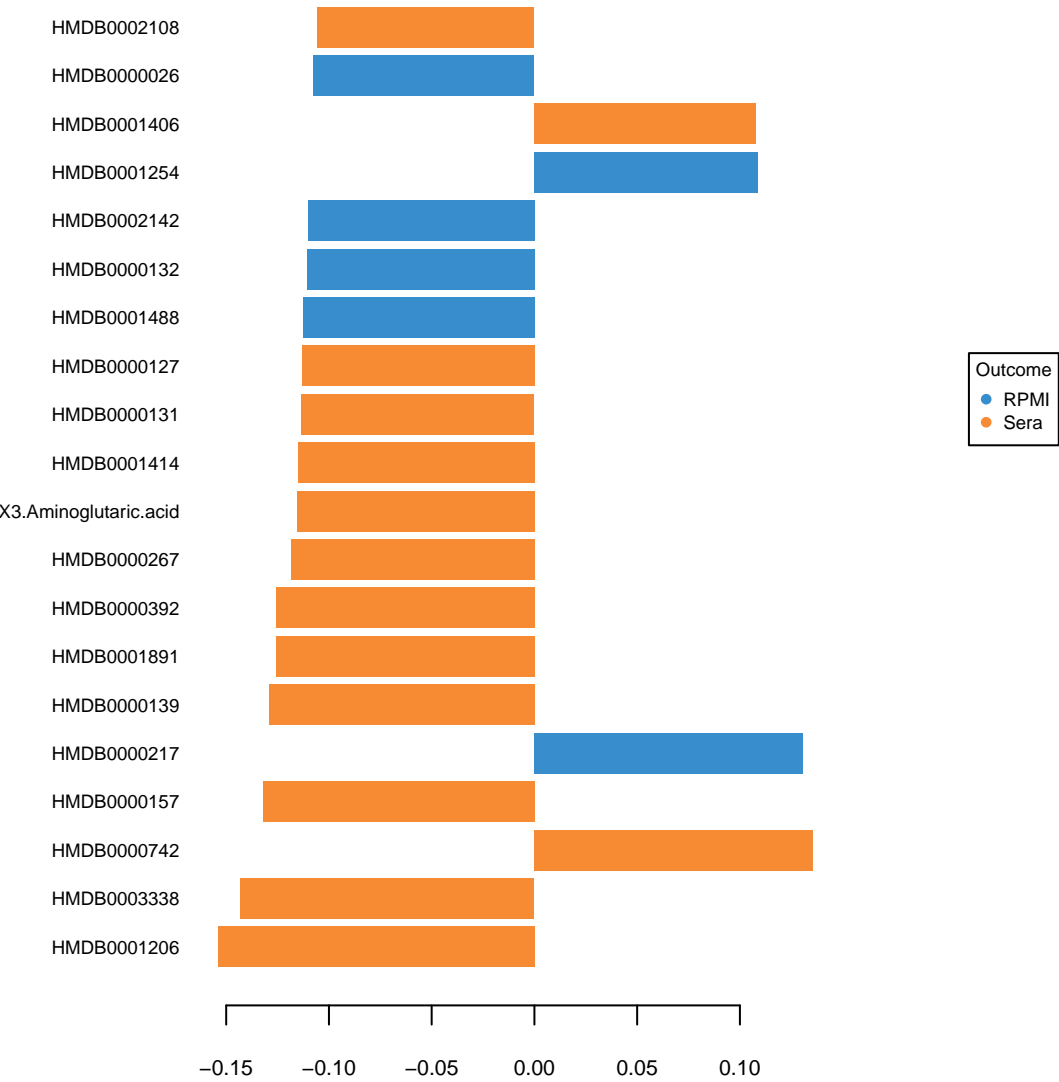
Status

RPMI

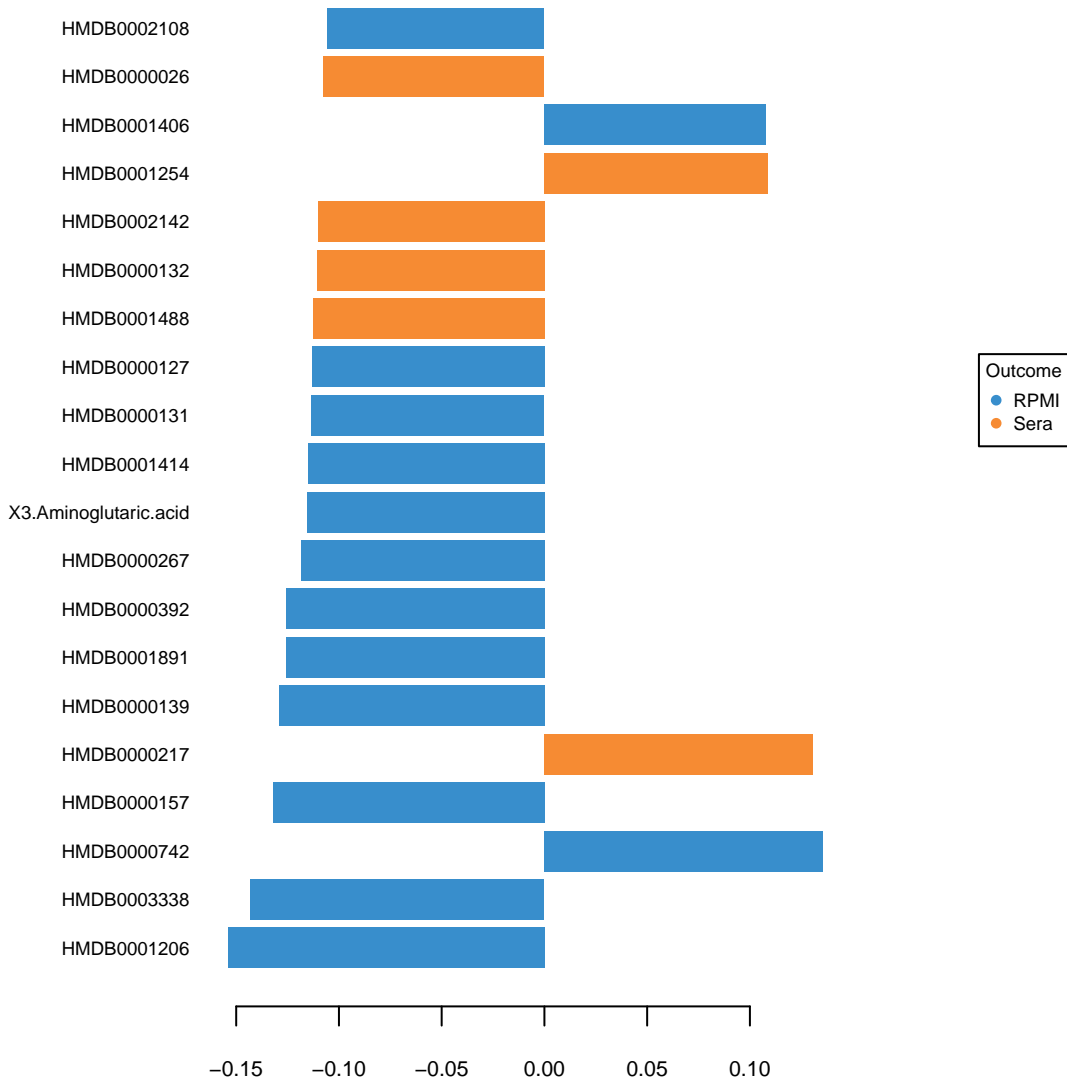
Sera



metabolome 3 PLSDA max load

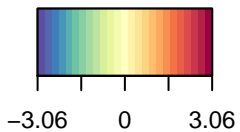


metabolome 3 PLSDA min load



PLSDA Component 4

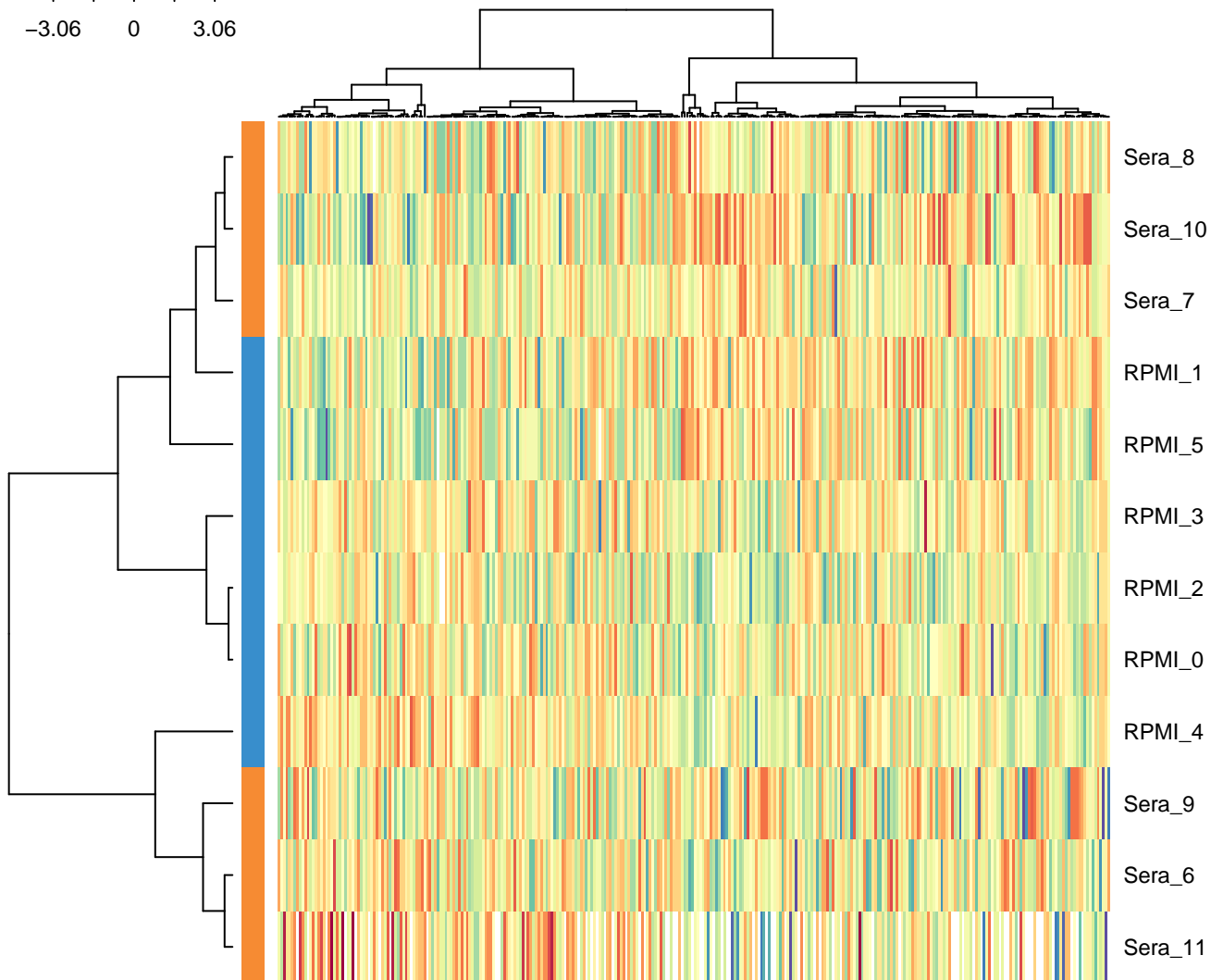
Color key



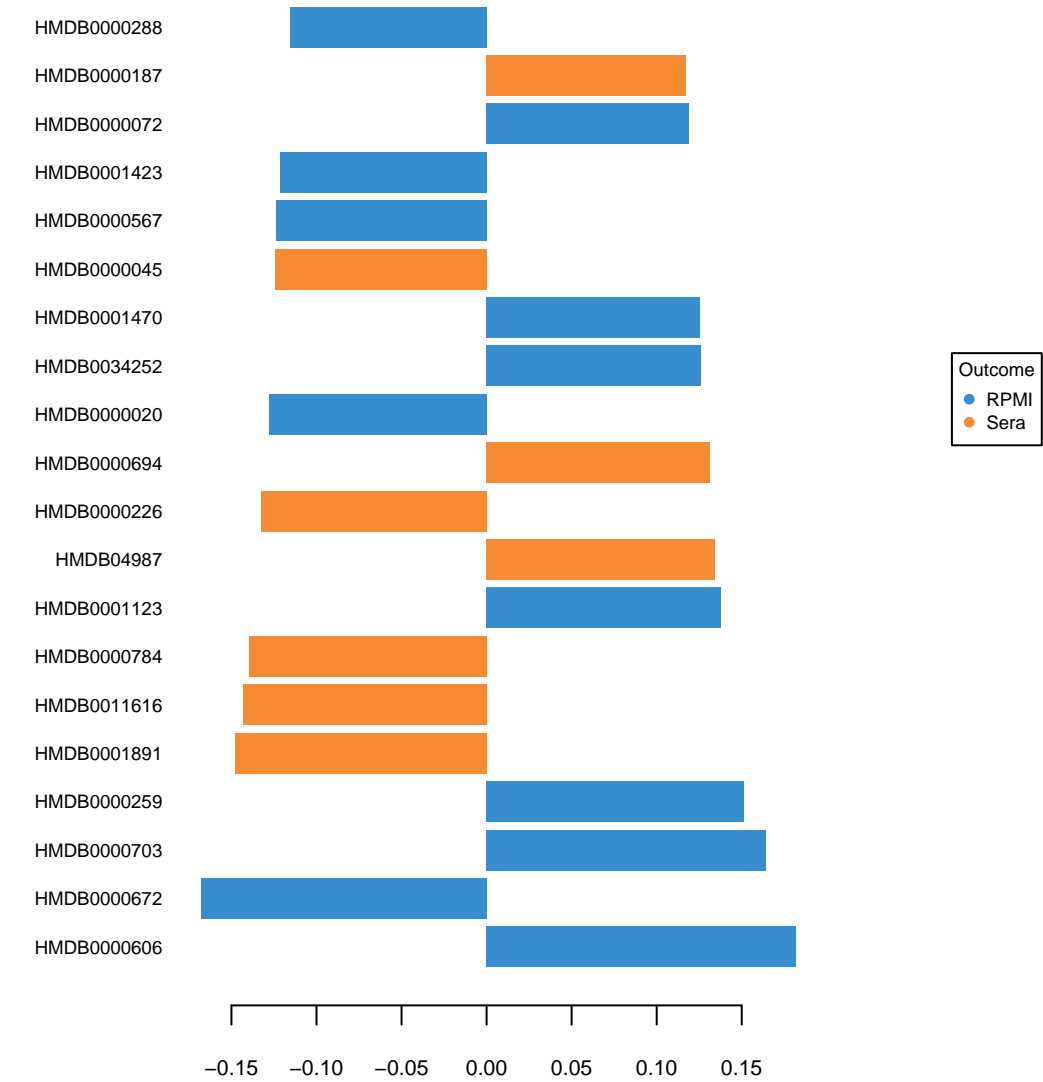
Status

RPMI

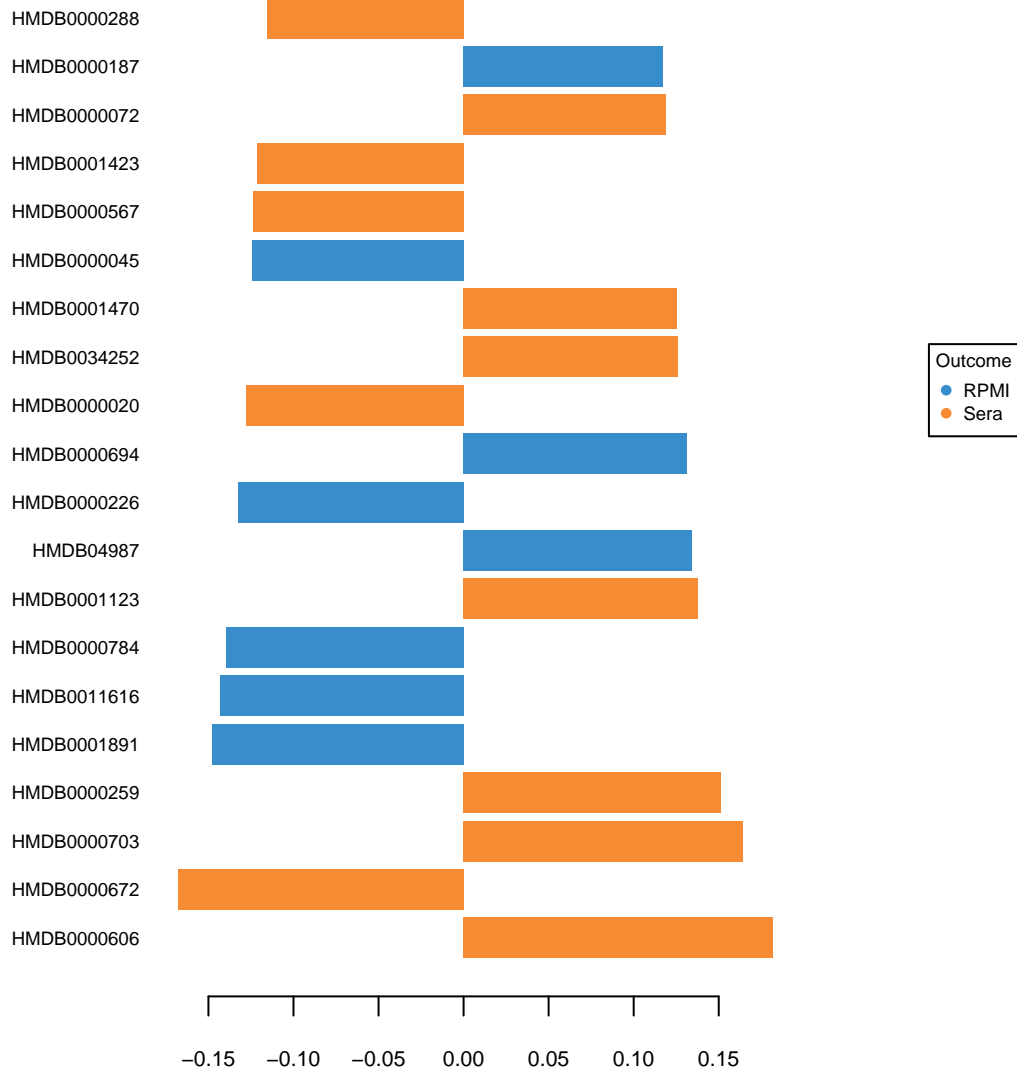
Sera



metabolome 4 PLSDA max load



metabolome 4 PLSDA min load



proteome PLSDA single 1/2

X-variate 2: 16% expl. var

50

25

0

-25

X-variate 1: 45% expl. var

-40

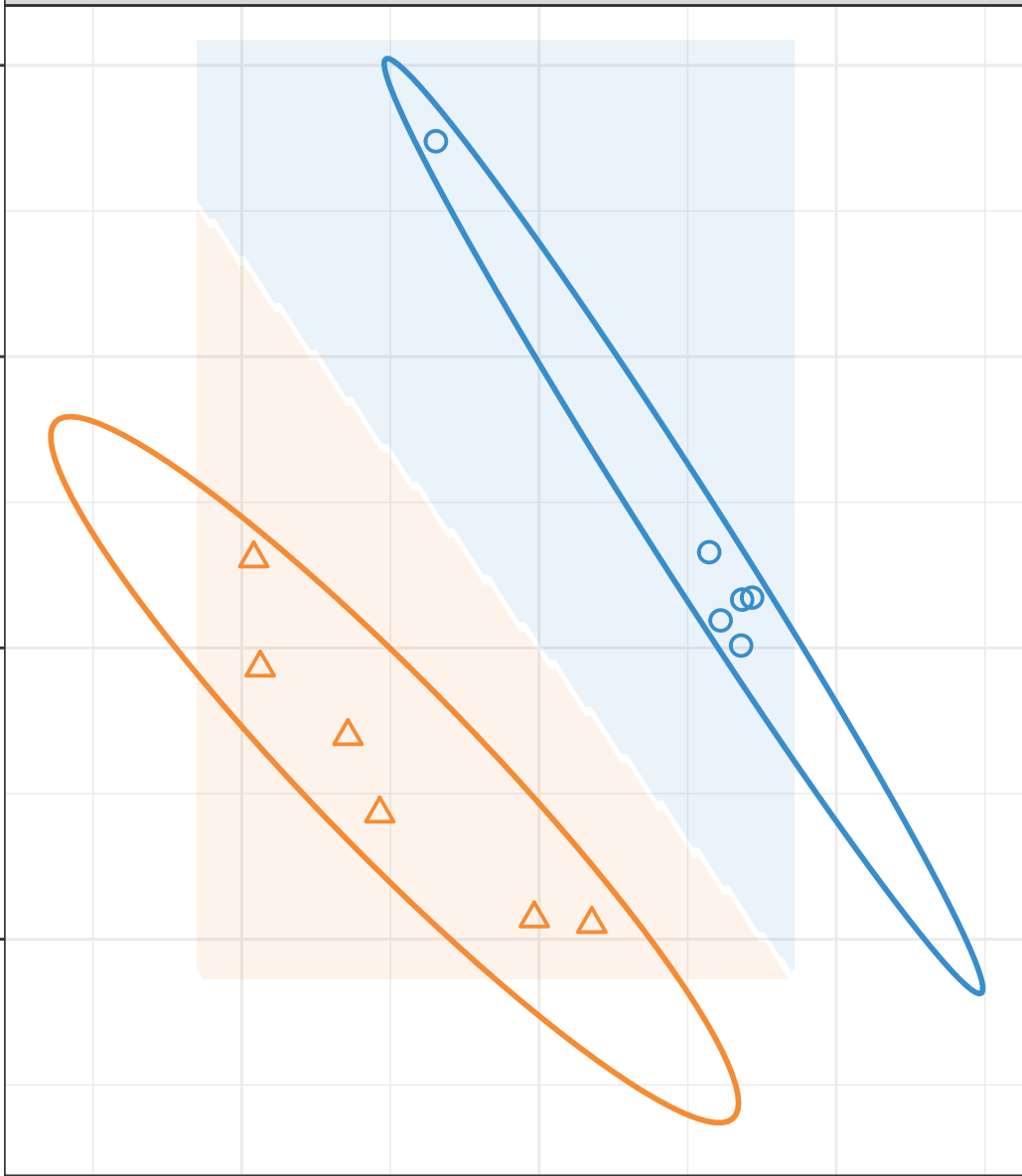
0

40

Legend

○ RPMI

△ Sera



proteome PLSDA single 1/2

X-variate 2: 16% expl. var

50

25

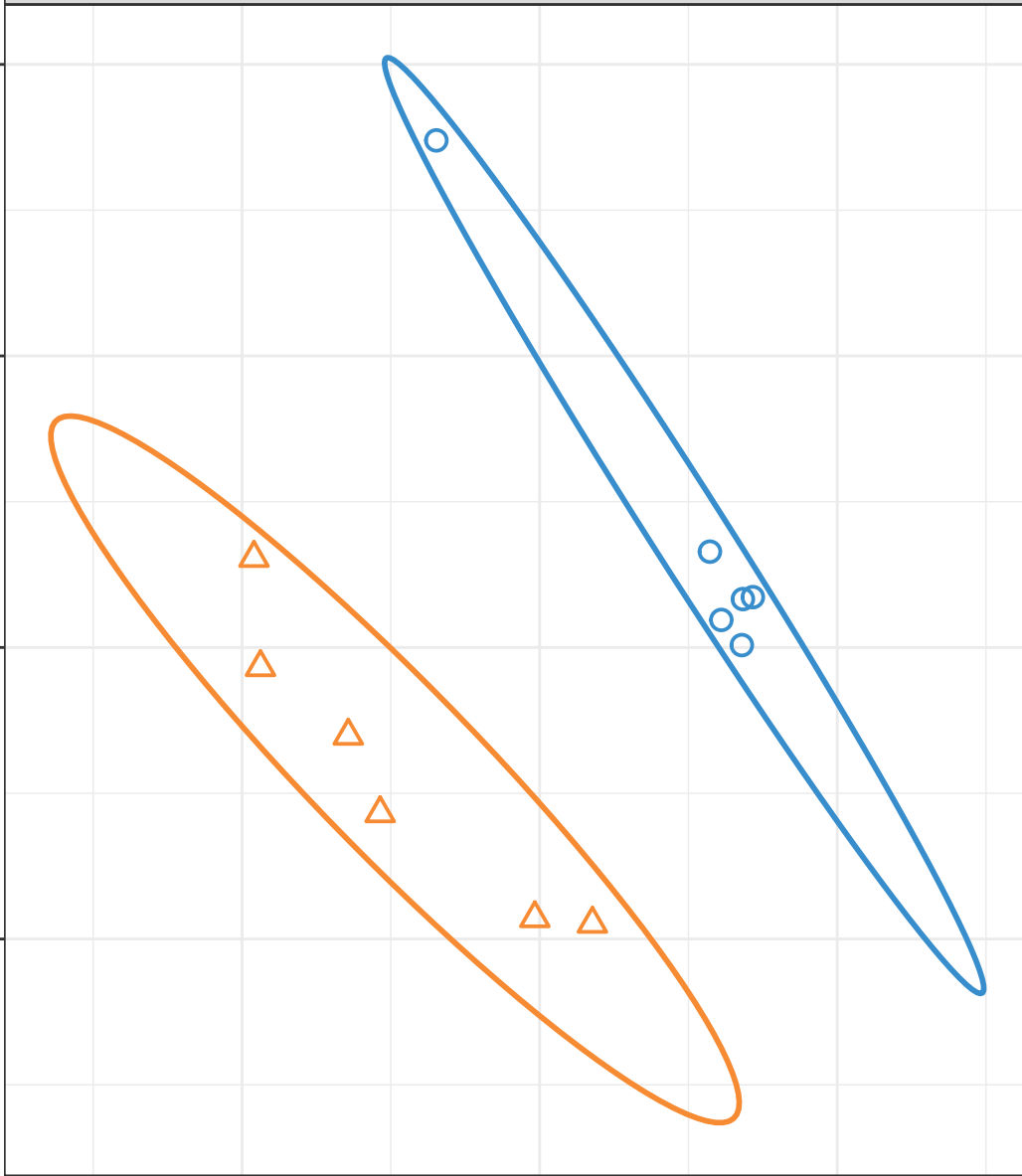
0

-25

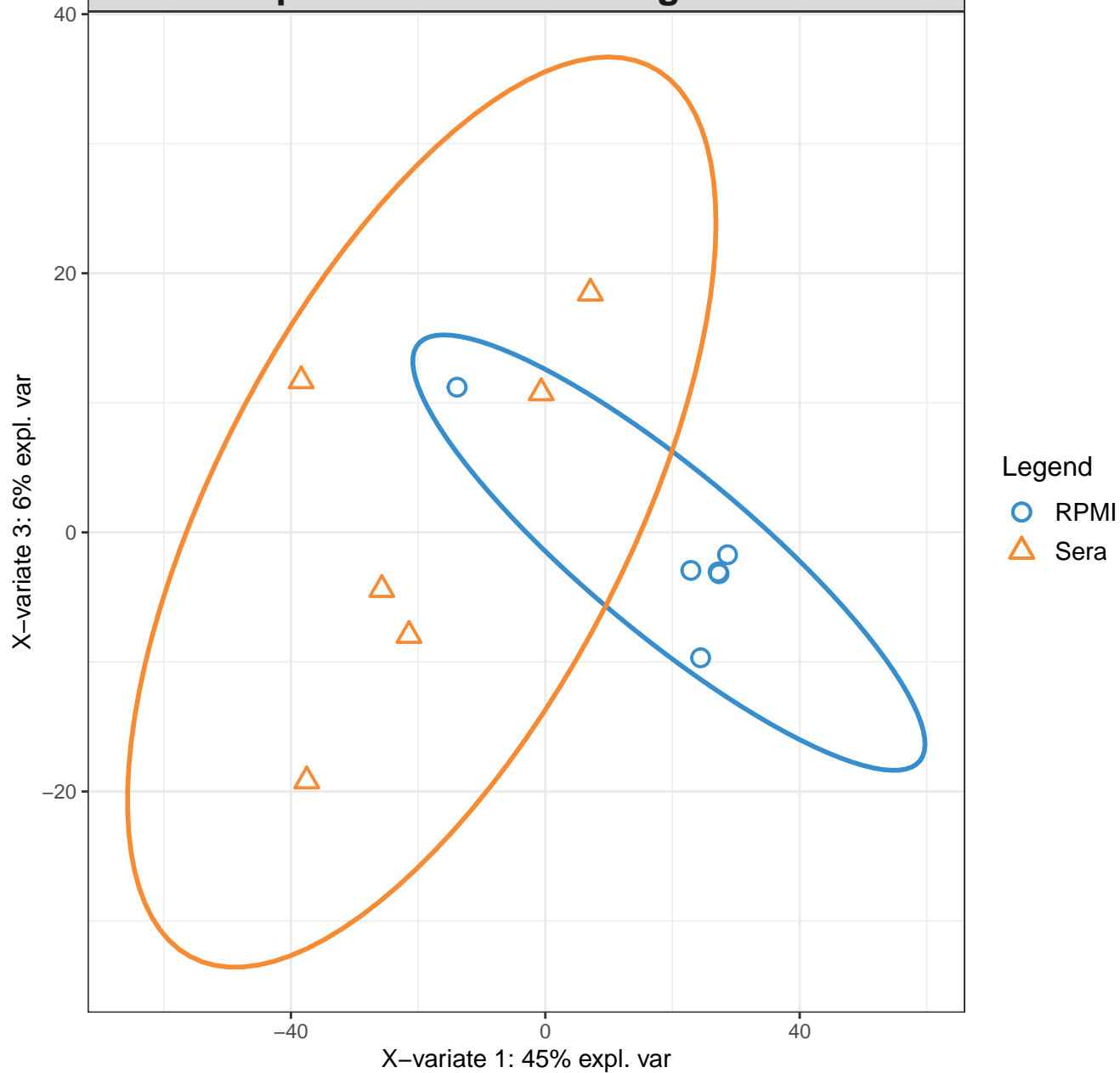
X-variate 1: 45% expl. var

Legend

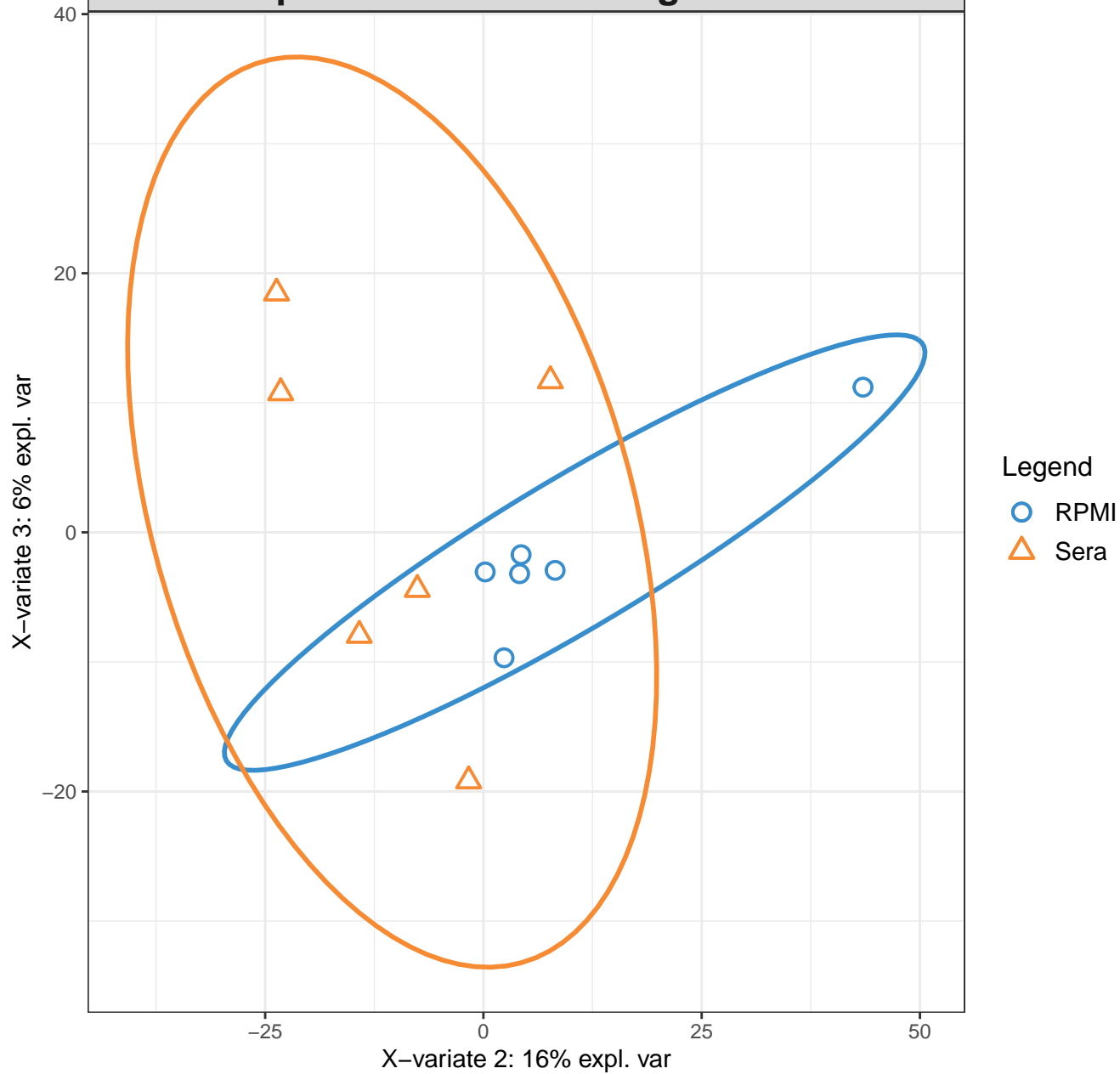
- RPMI
- △ Sera

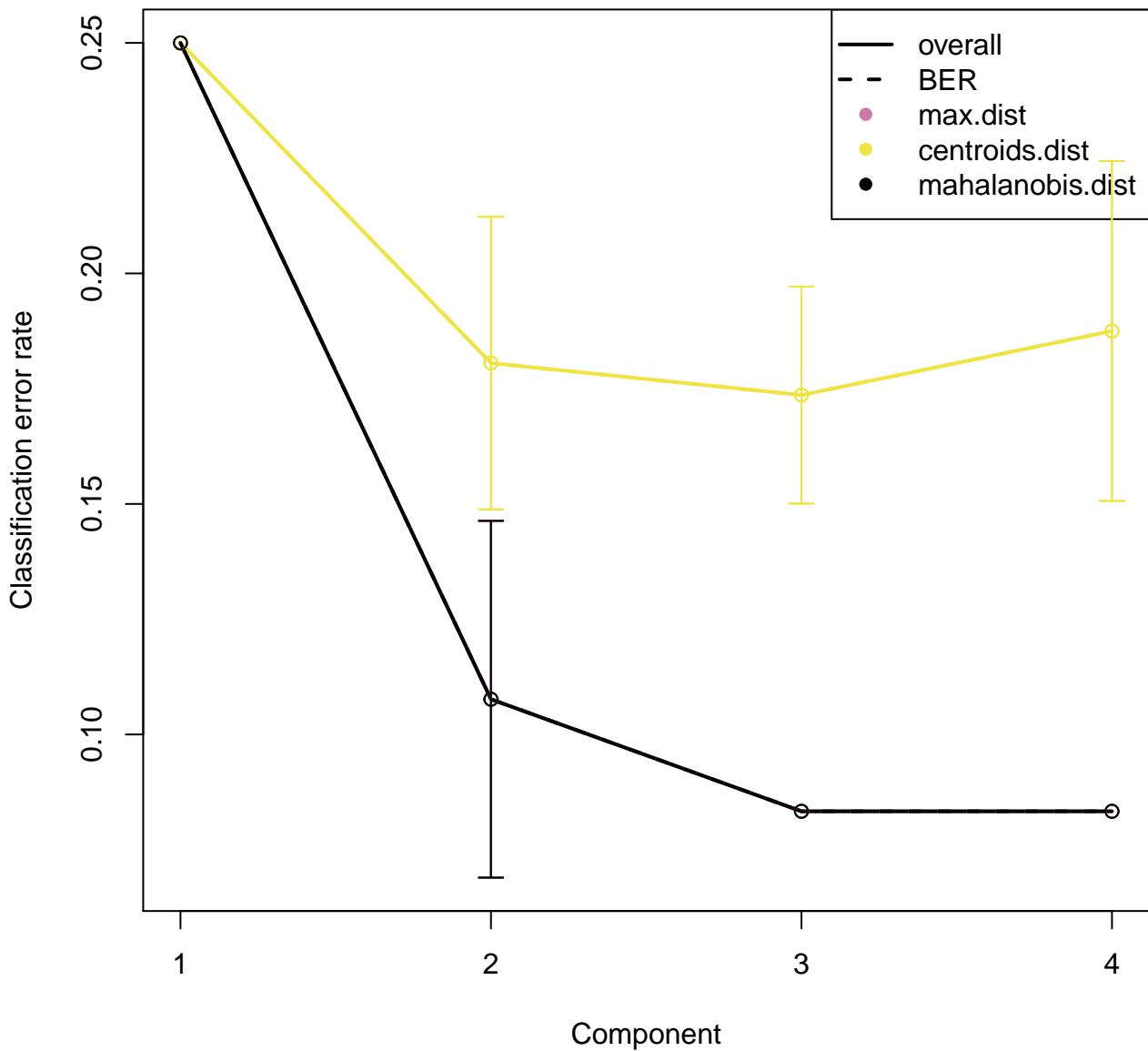


proteome PLSDA single 1/3

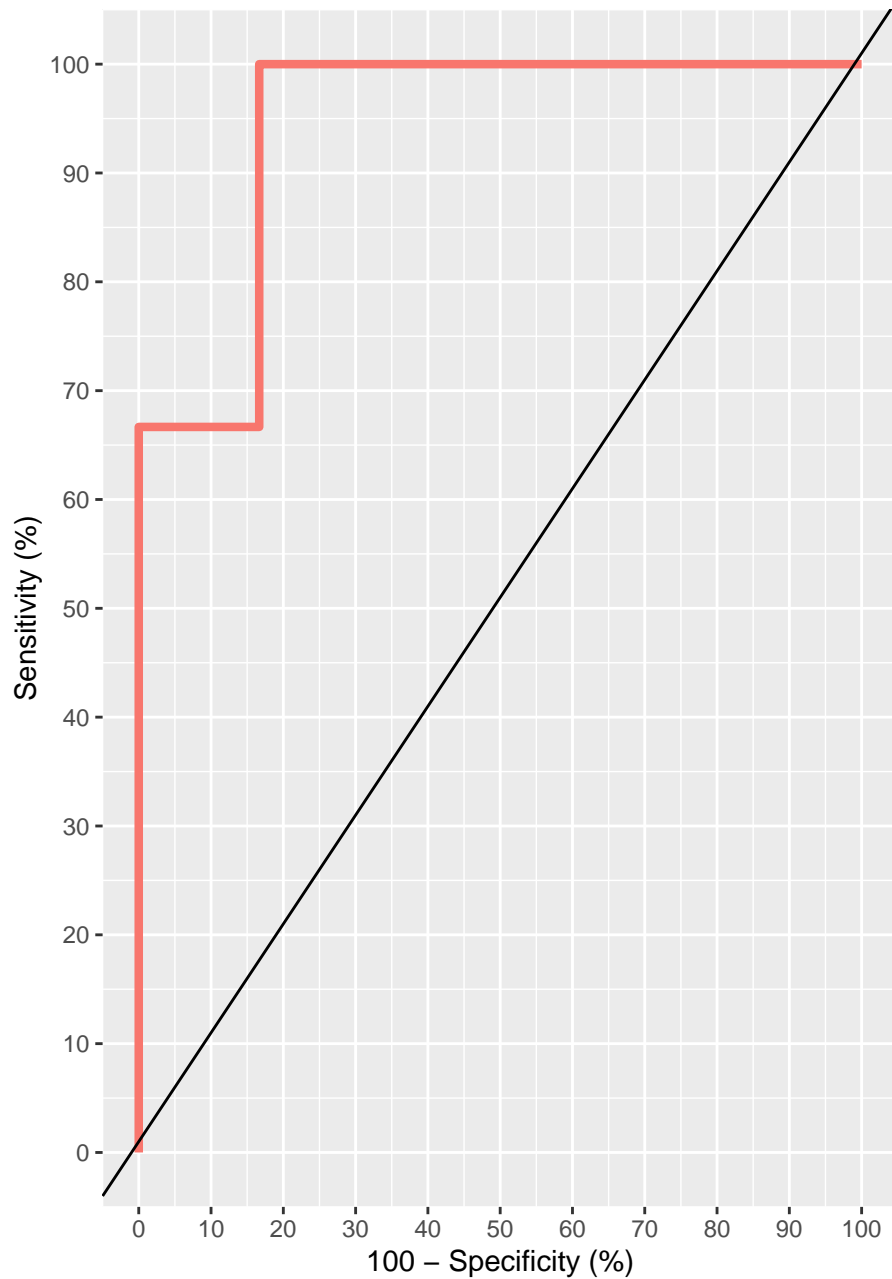


proteome PLSDA single 2/3





ROC Curve Using Comp(s): 1

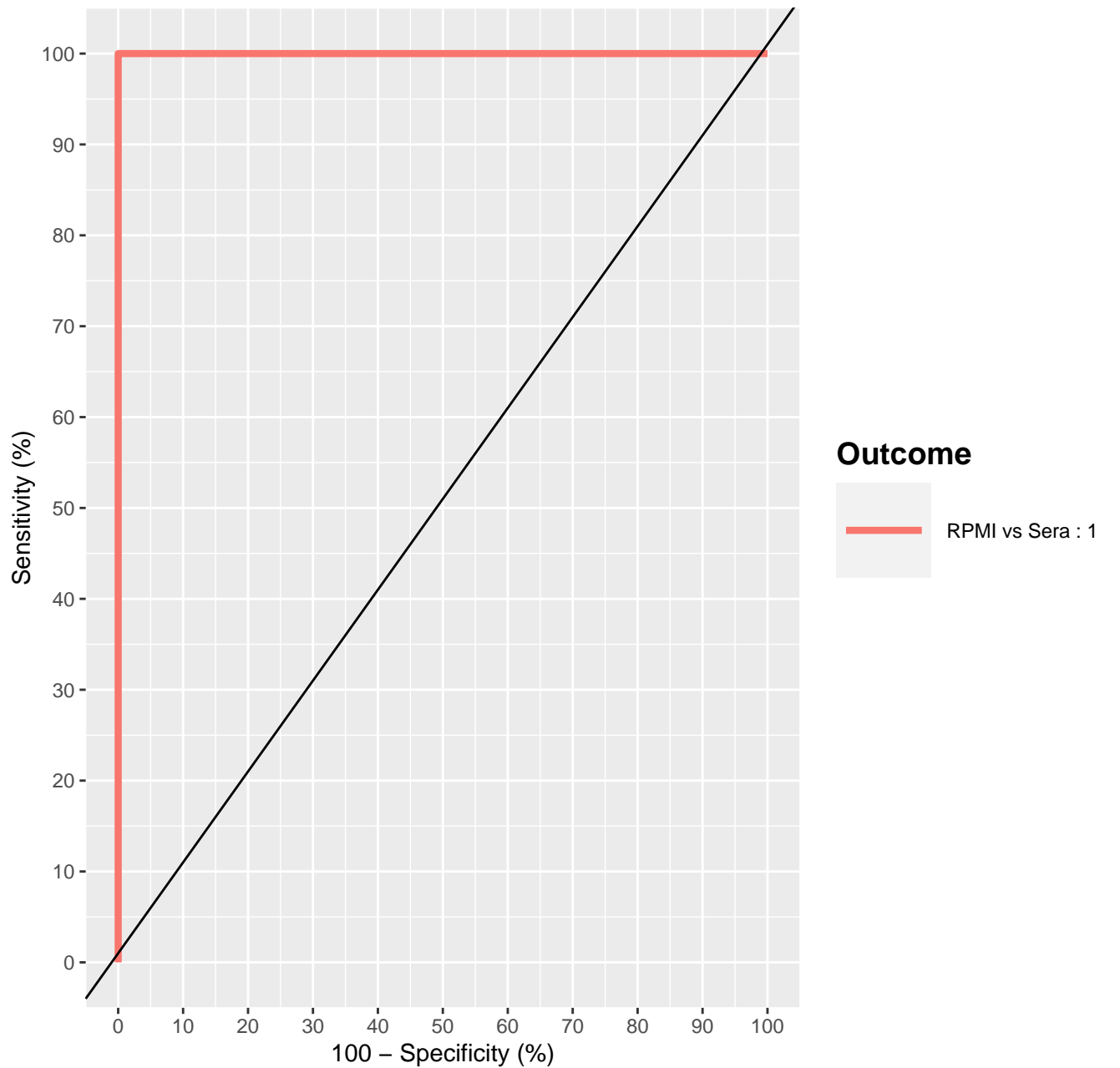


Outcome

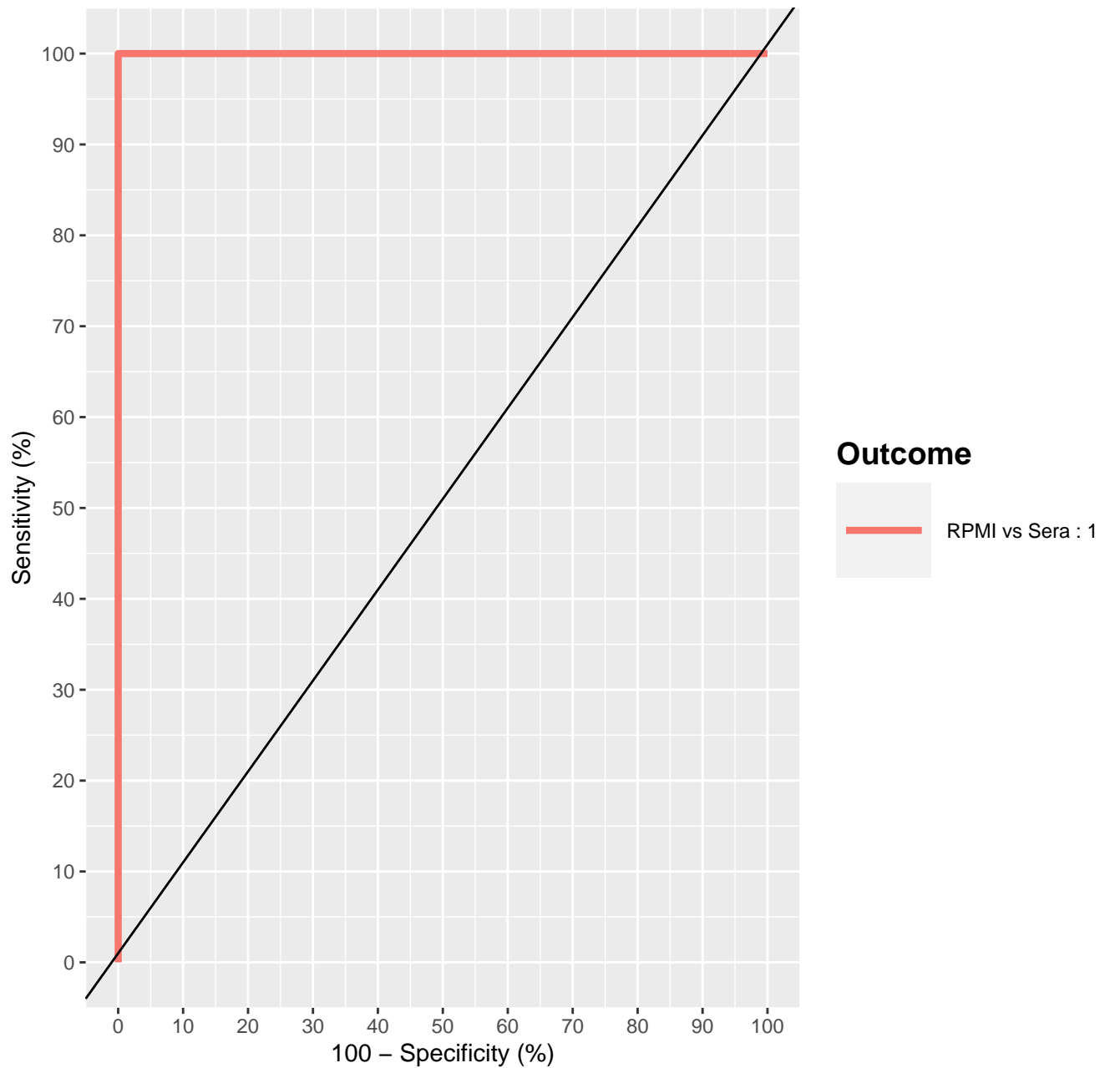


RPMI vs Sera : 0.9444

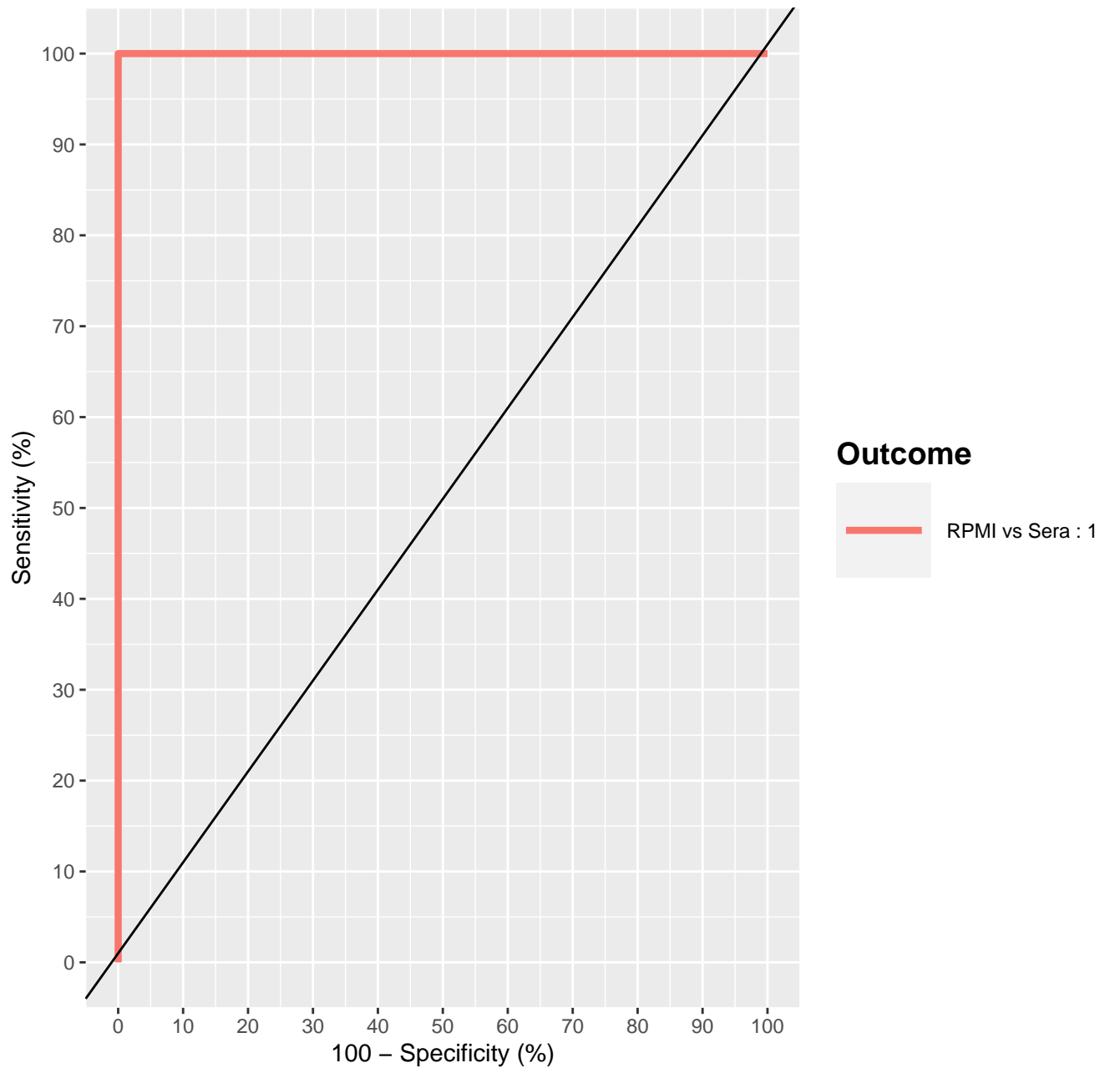
ROC Curve Using Comp(s): 1, 2



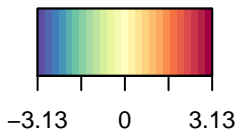
ROC Curve Using Comp(s): 1, 2, 3



ROC Curve Using Comp(s): 1, 2, 3, 4



Color key

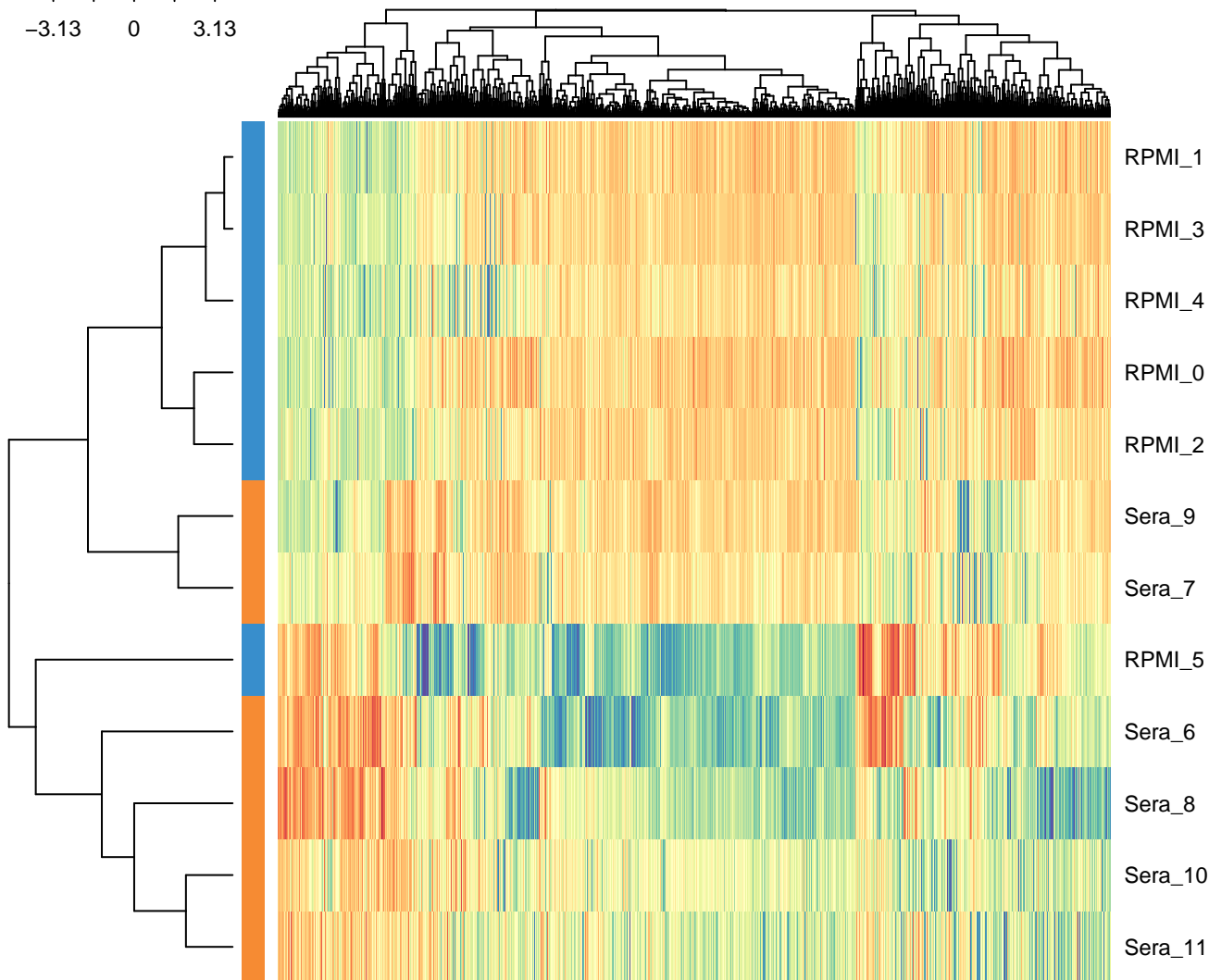


PLSDA

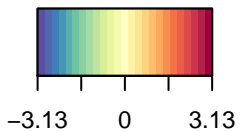
Status

■ RPMI

■ Sera



Color key

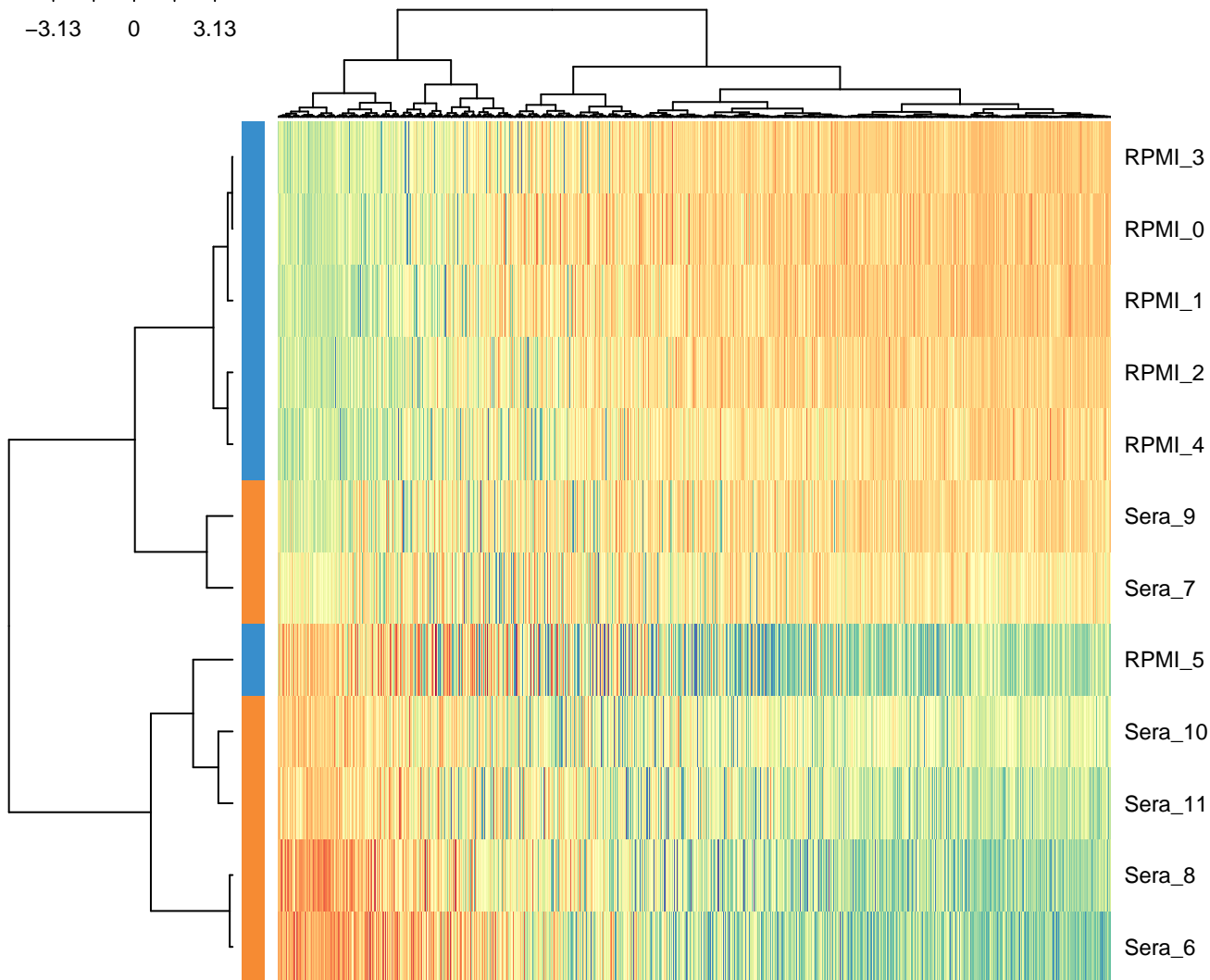


PLSDA Component 1

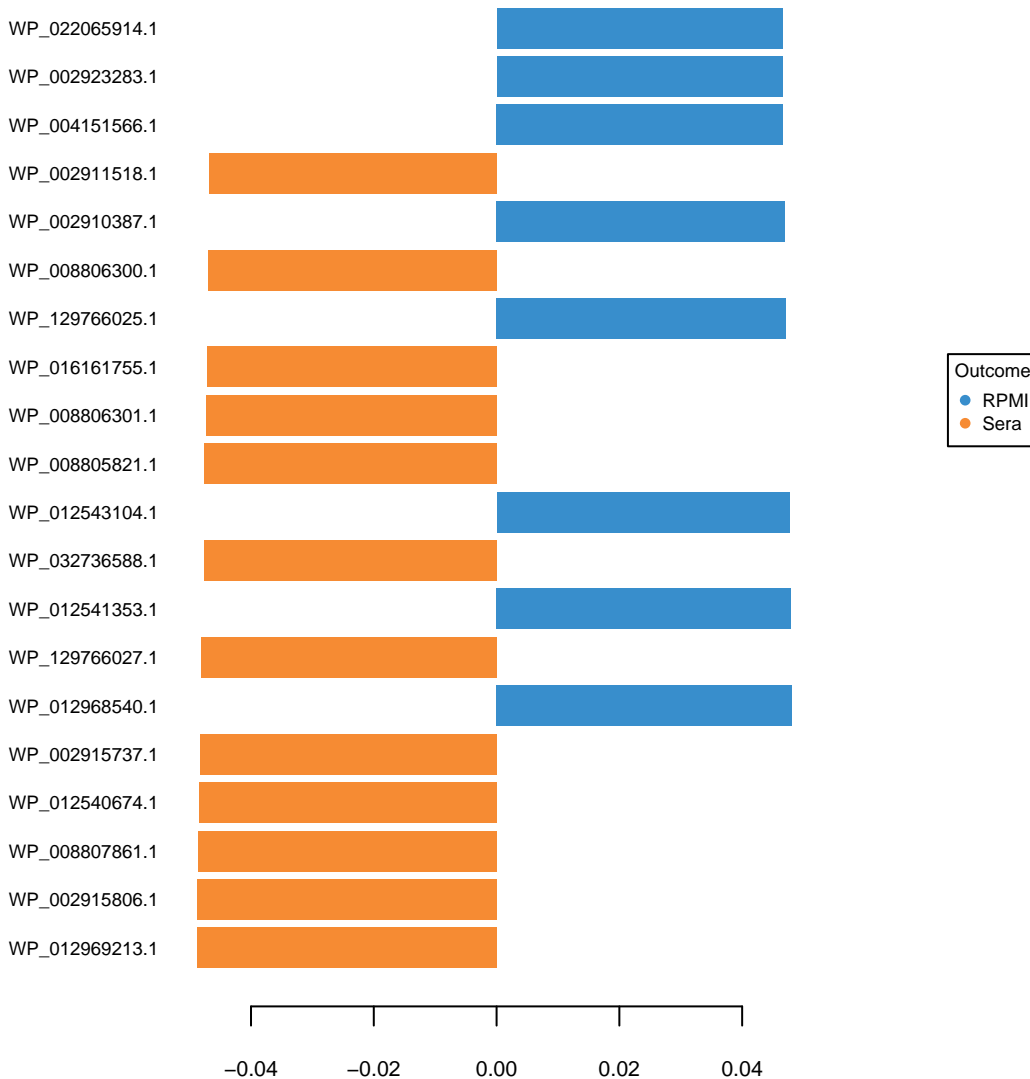
Status

■ RPMI

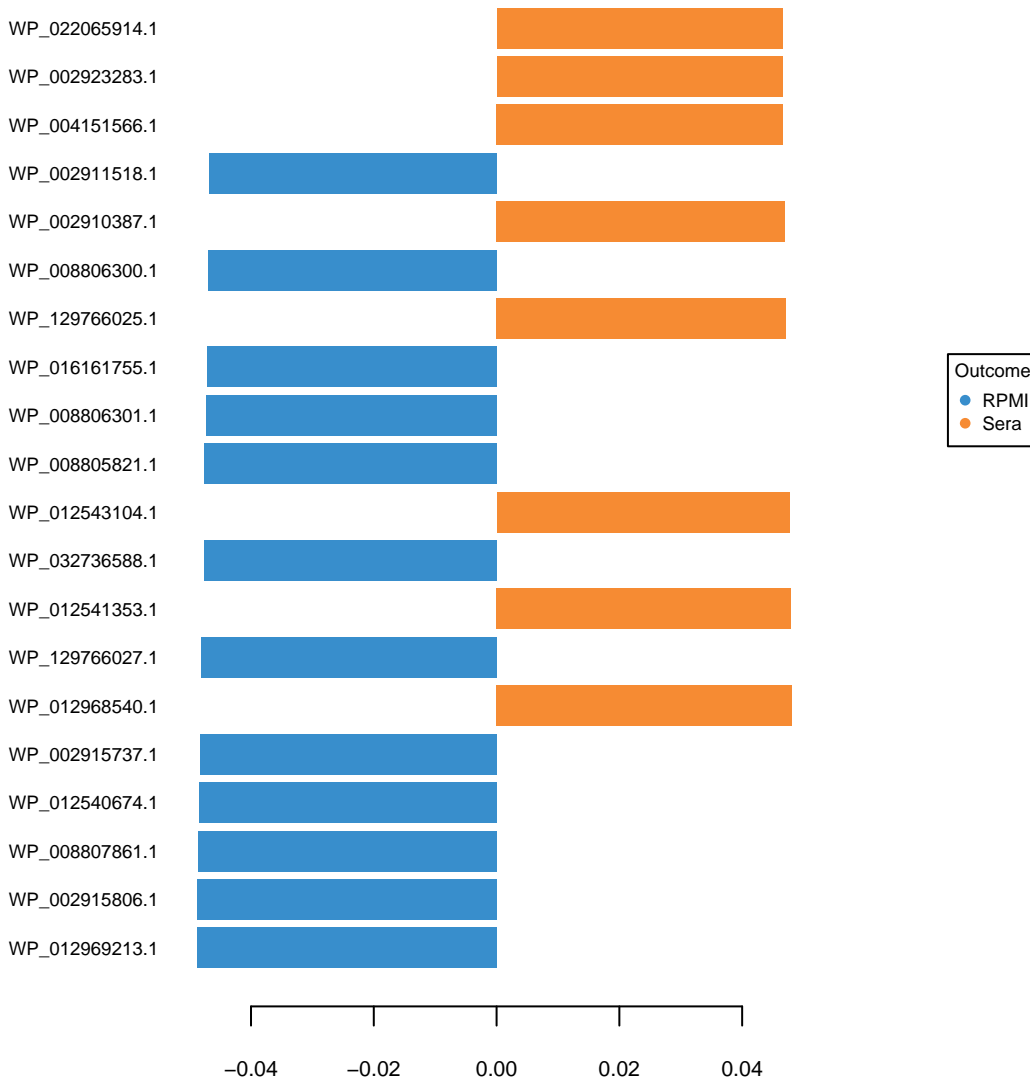
■ Sera



proteome 1 PLSDA max loadir

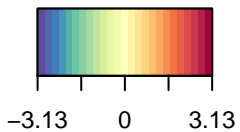


proteome 1 PLSDA min loadin



PLSDA Component 2

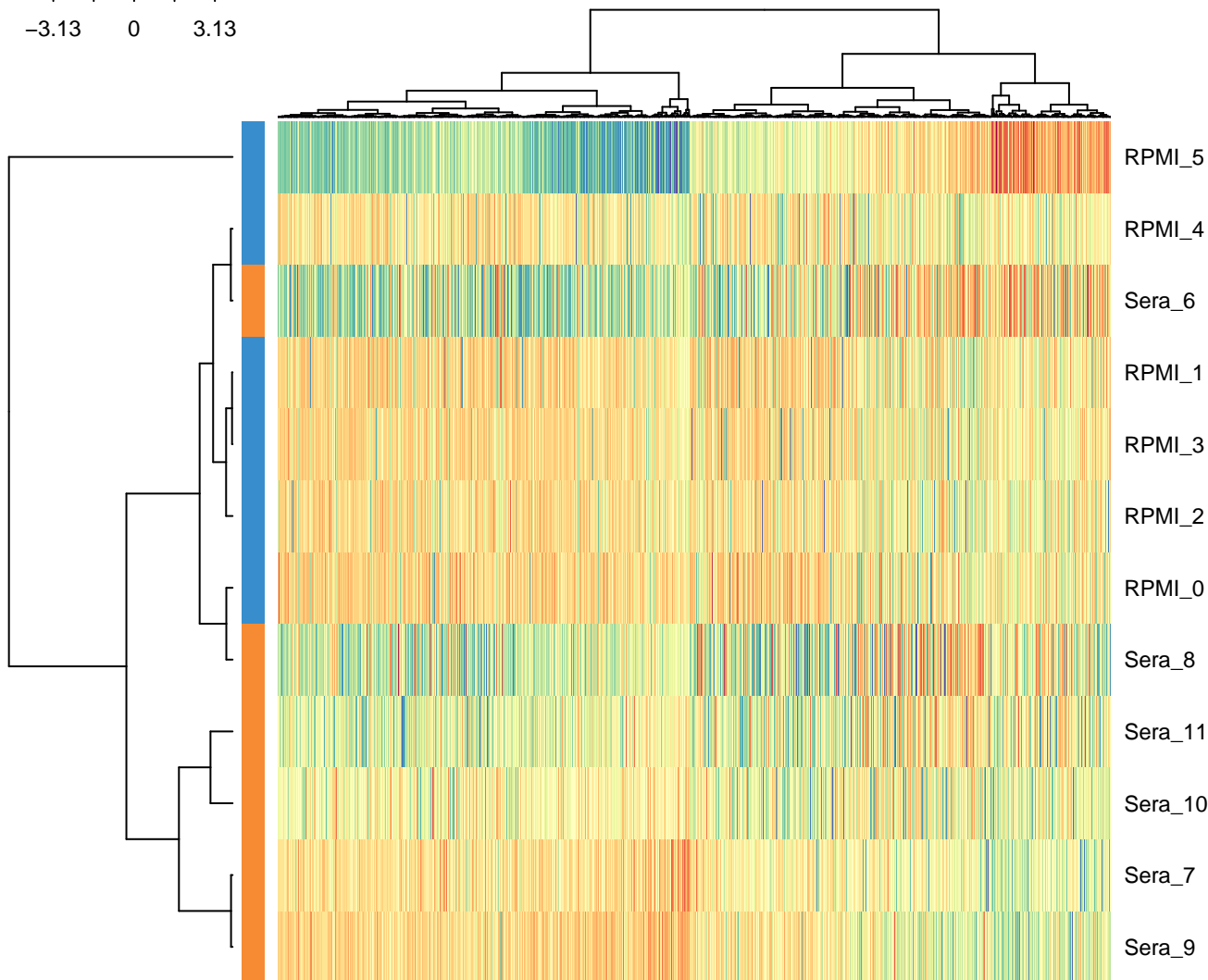
Color key



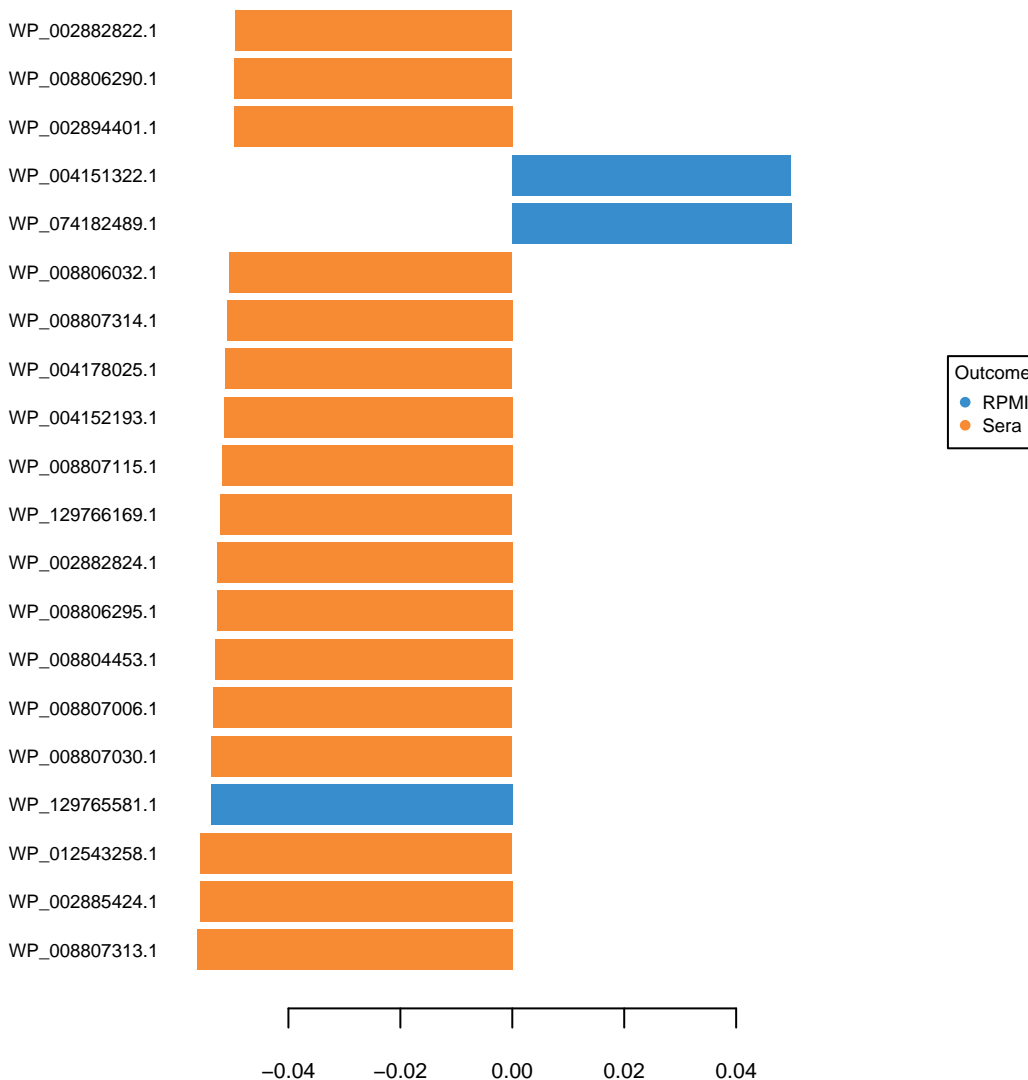
Status

RPMI

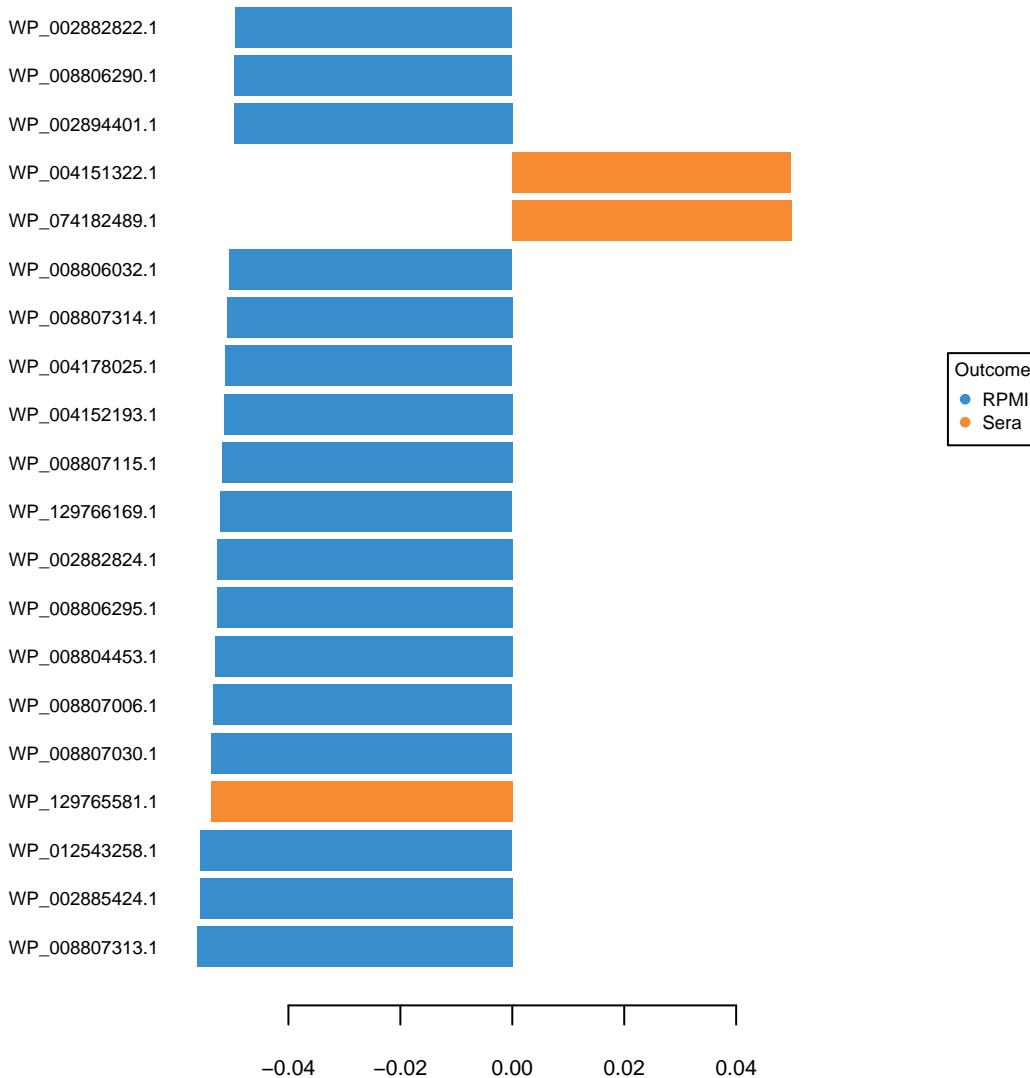
Sera



proteome 2 PLSDA max loadir

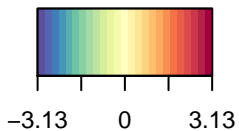


proteome 2 PLSDA min loadin



PLSDA Component 3

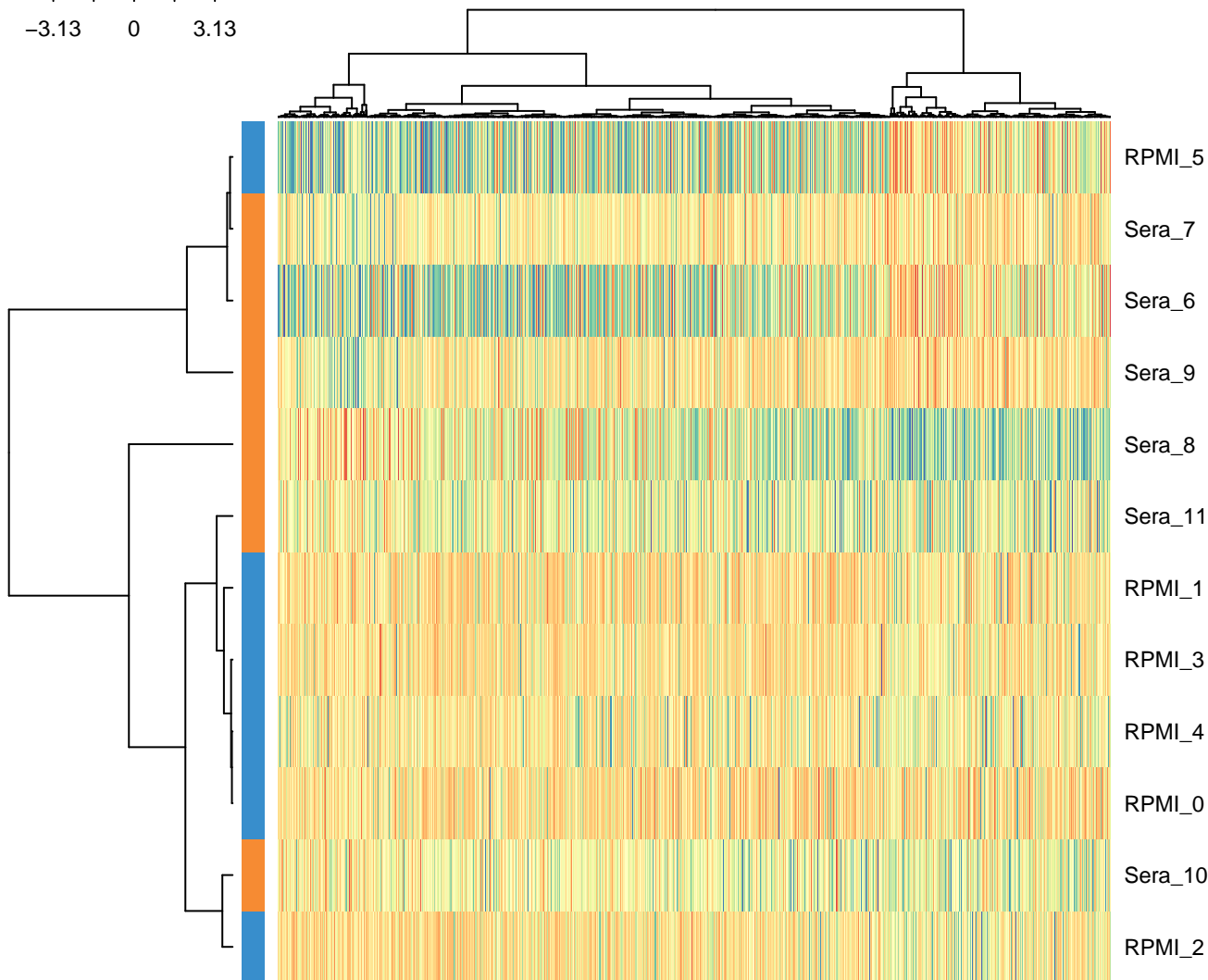
Color key



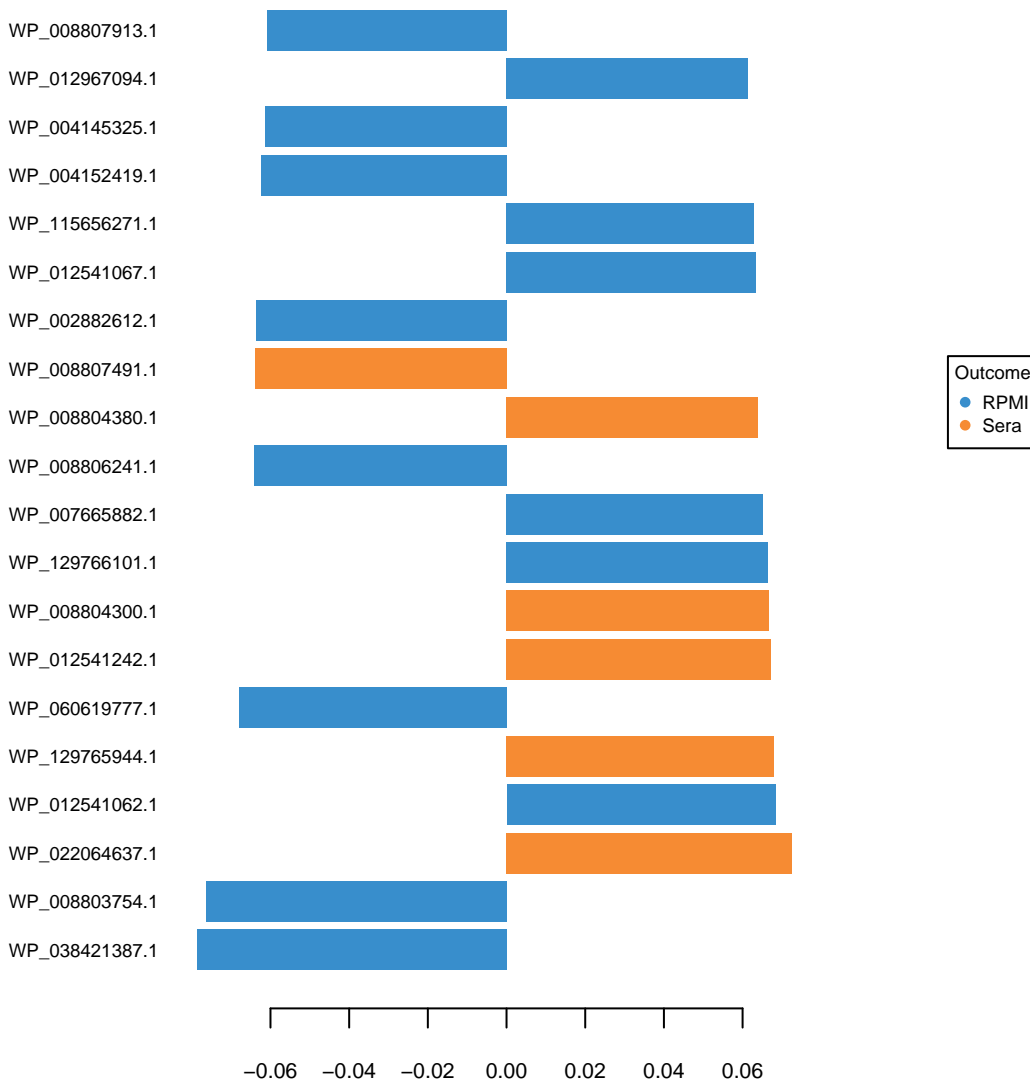
Status

RPMI

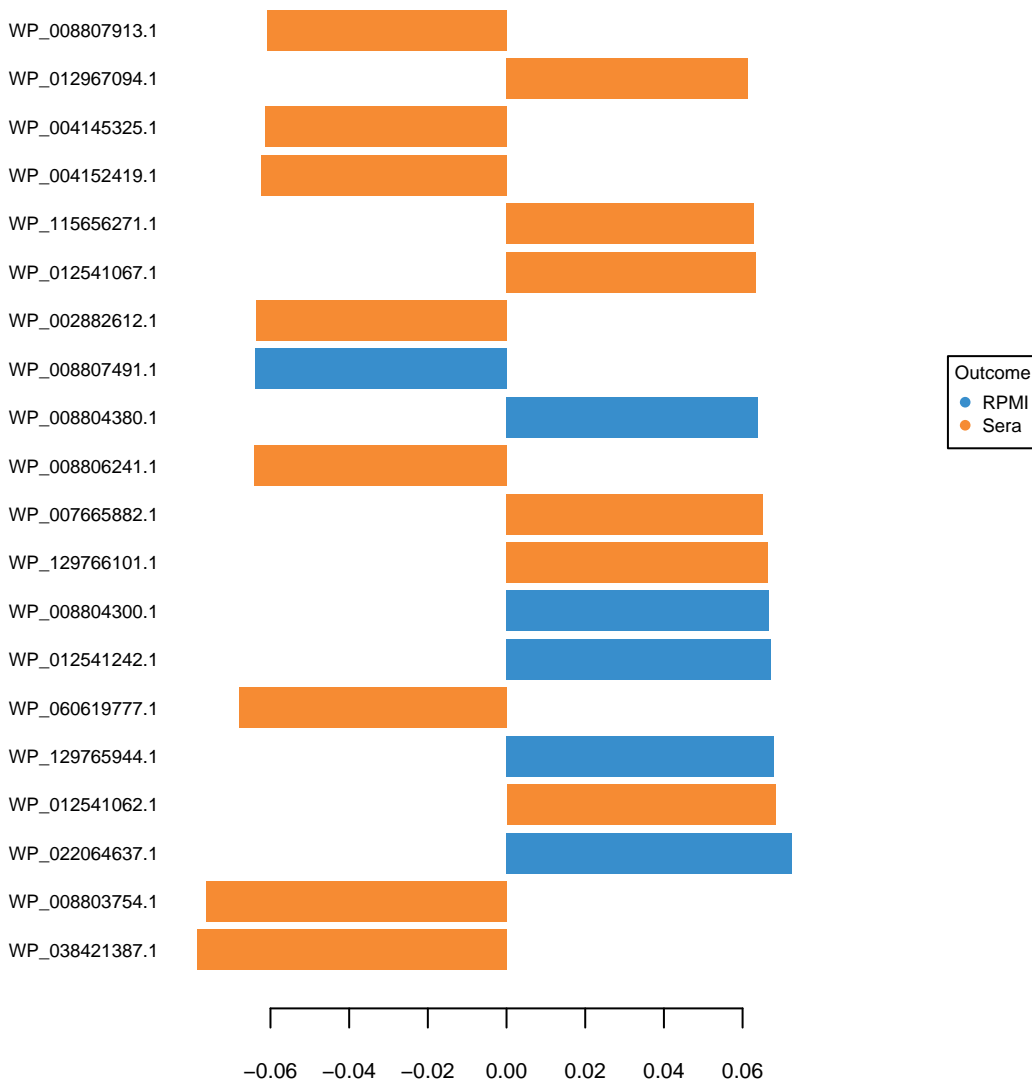
Sera



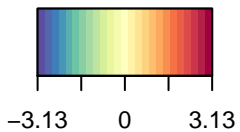
proteome 3 PLSDA max loadir



proteome 3 PLSDA min loadin



Color key

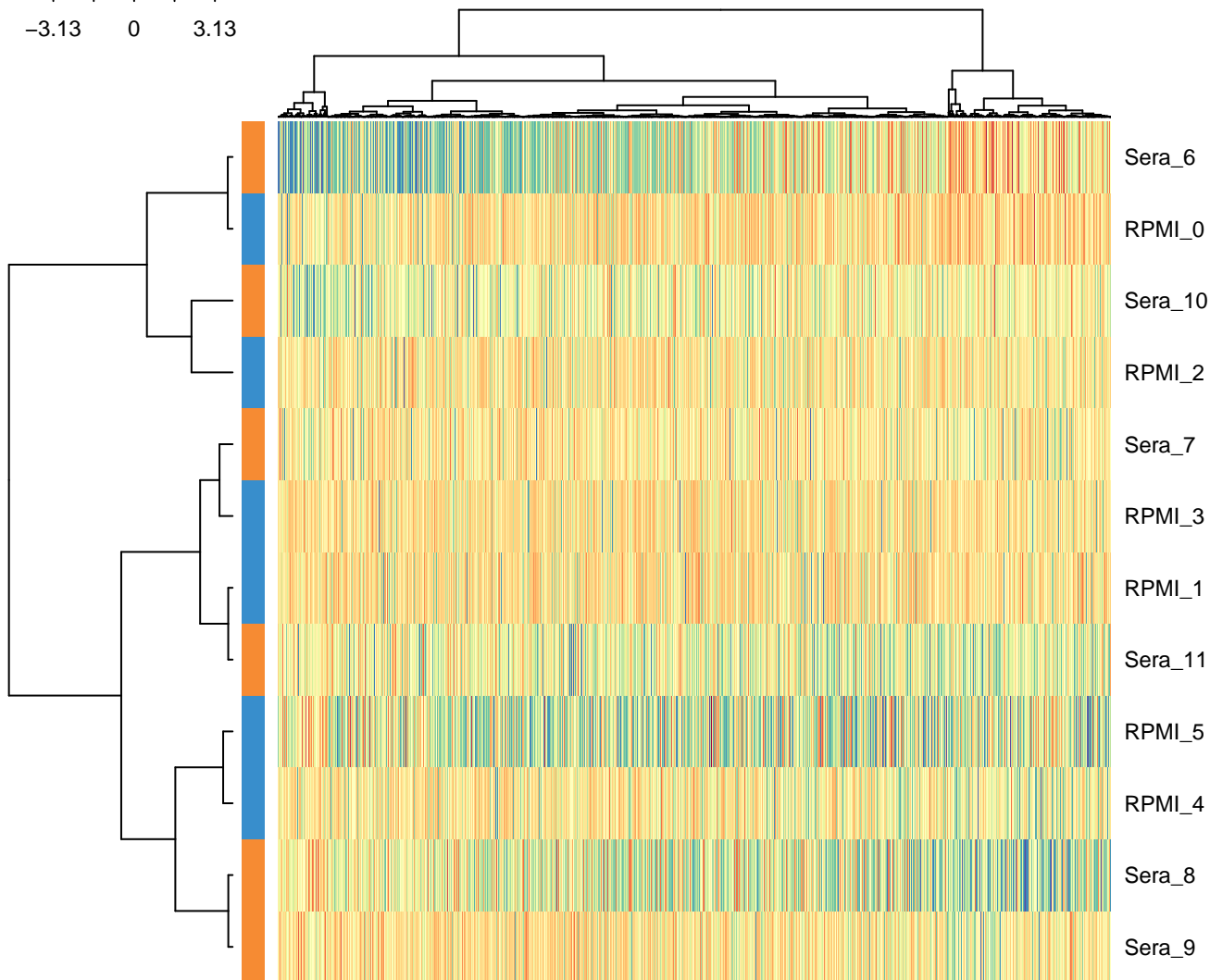


PLSDA Component 4

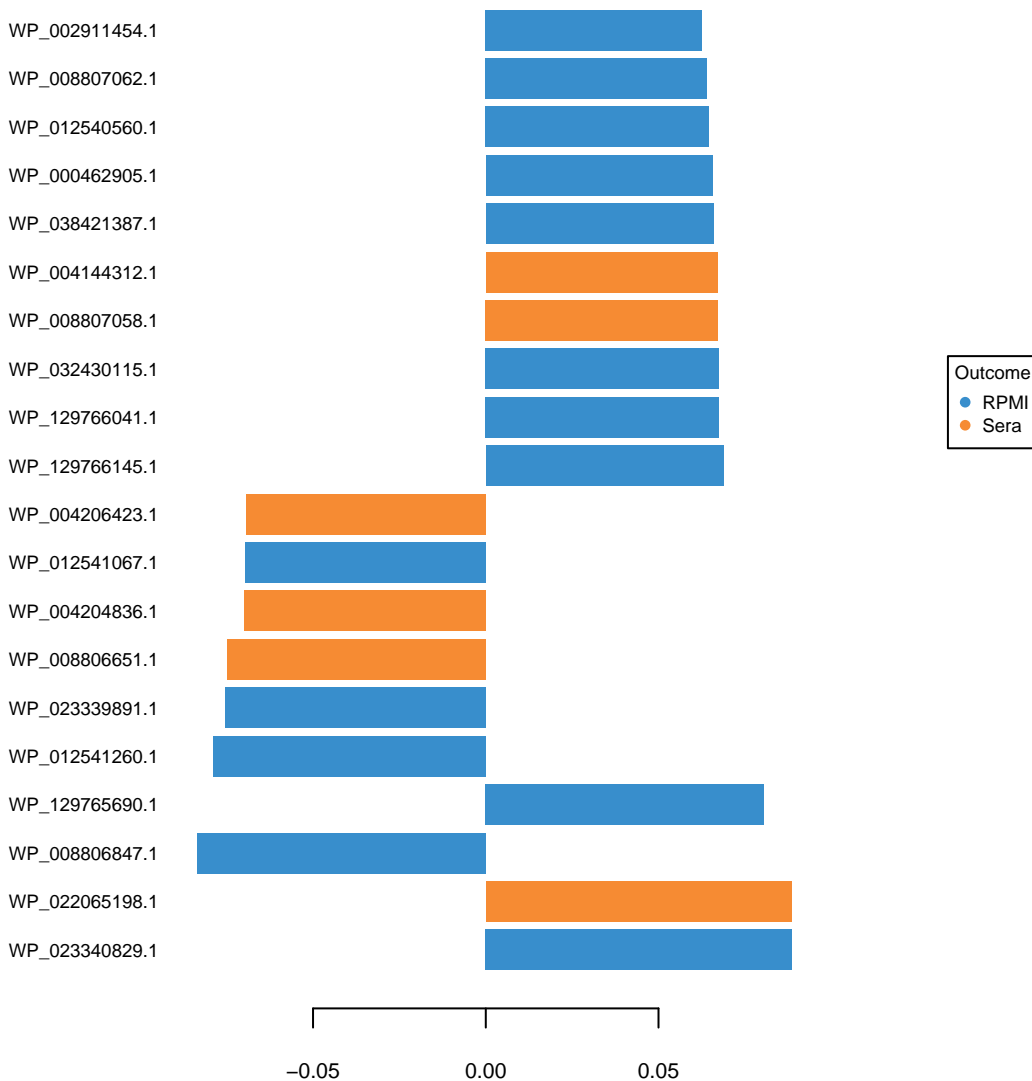
Status

RPMI

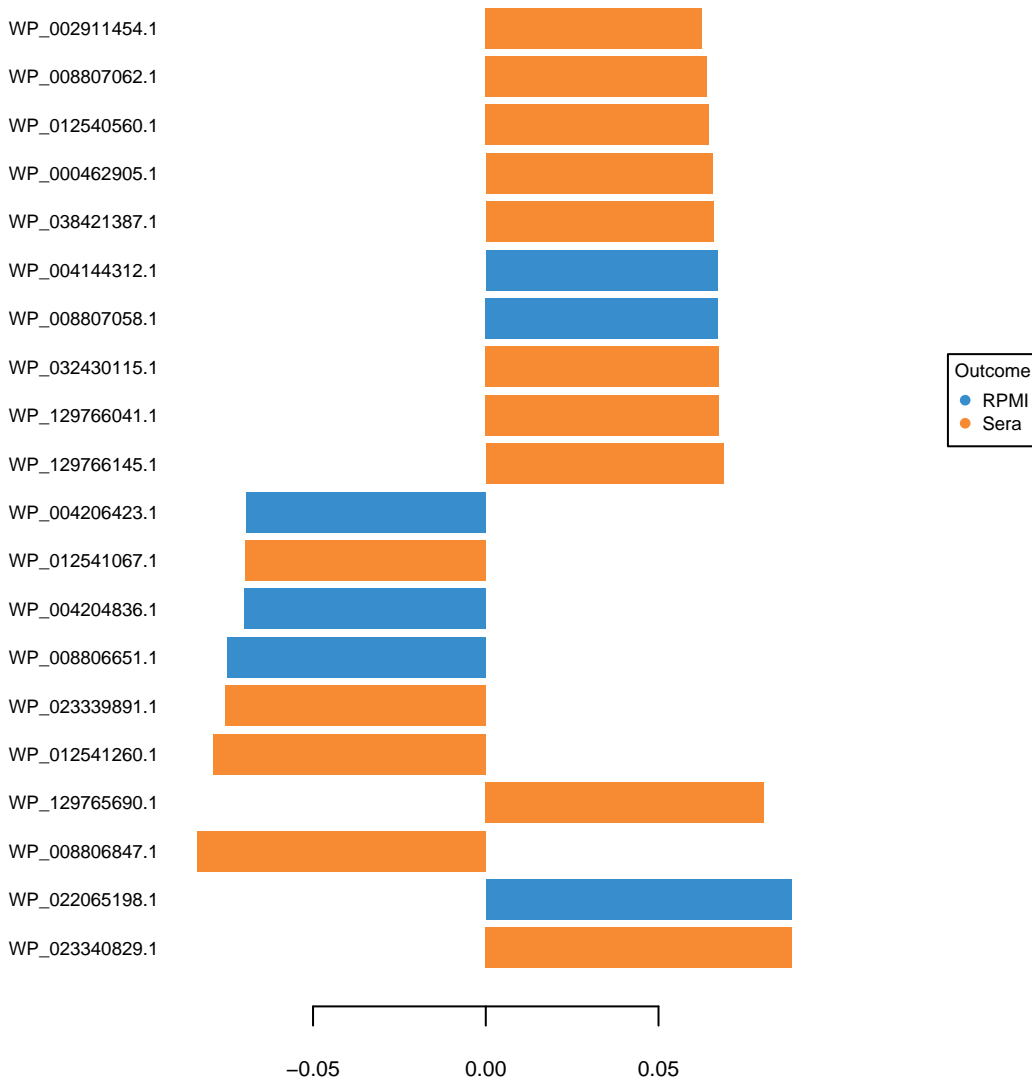
Sera



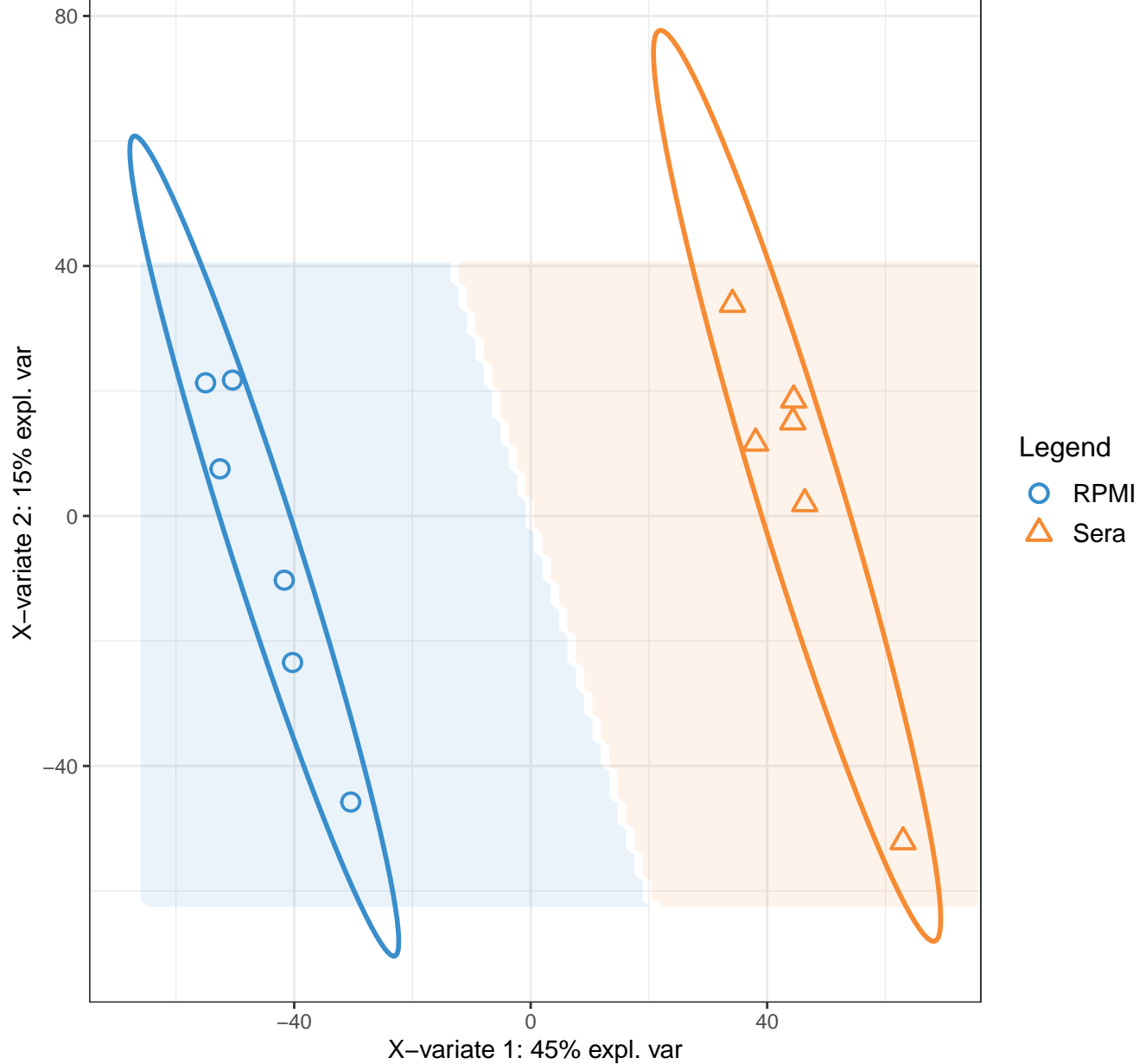
proteome 4 PLSDA max loadir



proteome 4 PLSDA min loadin



transcriptome PLSDA single 1/2



transcriptome PLSDA single 1/2

X-variate 2: 15% expl. var

80
40
0
-40

-40

0

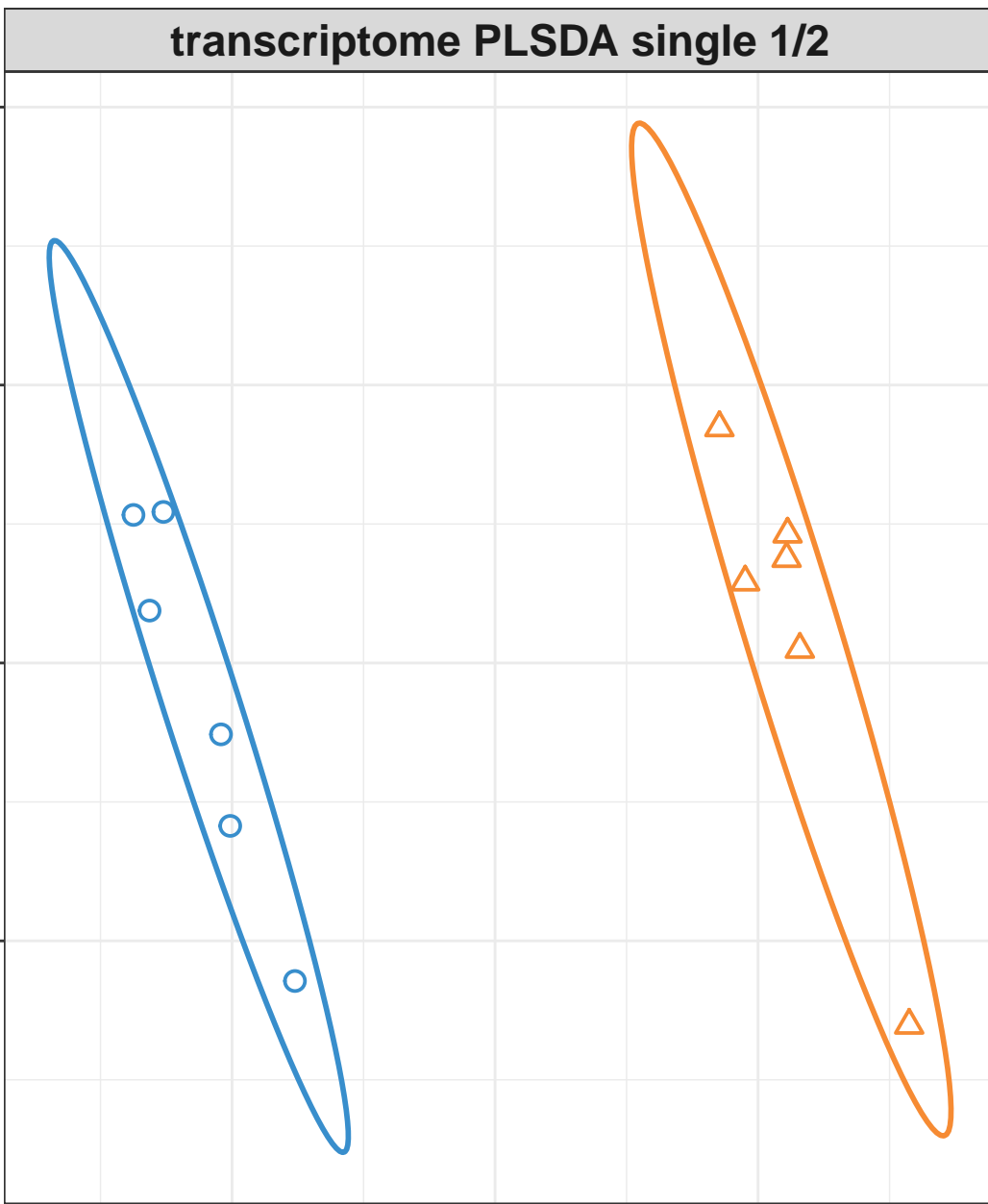
40

X-variate 1: 45% expl. var

Legend

○ RPMI

△ Sera



transcriptome PLSDA single 1/3

X-variate 3: 5% expl. var

25

0

-25

-40

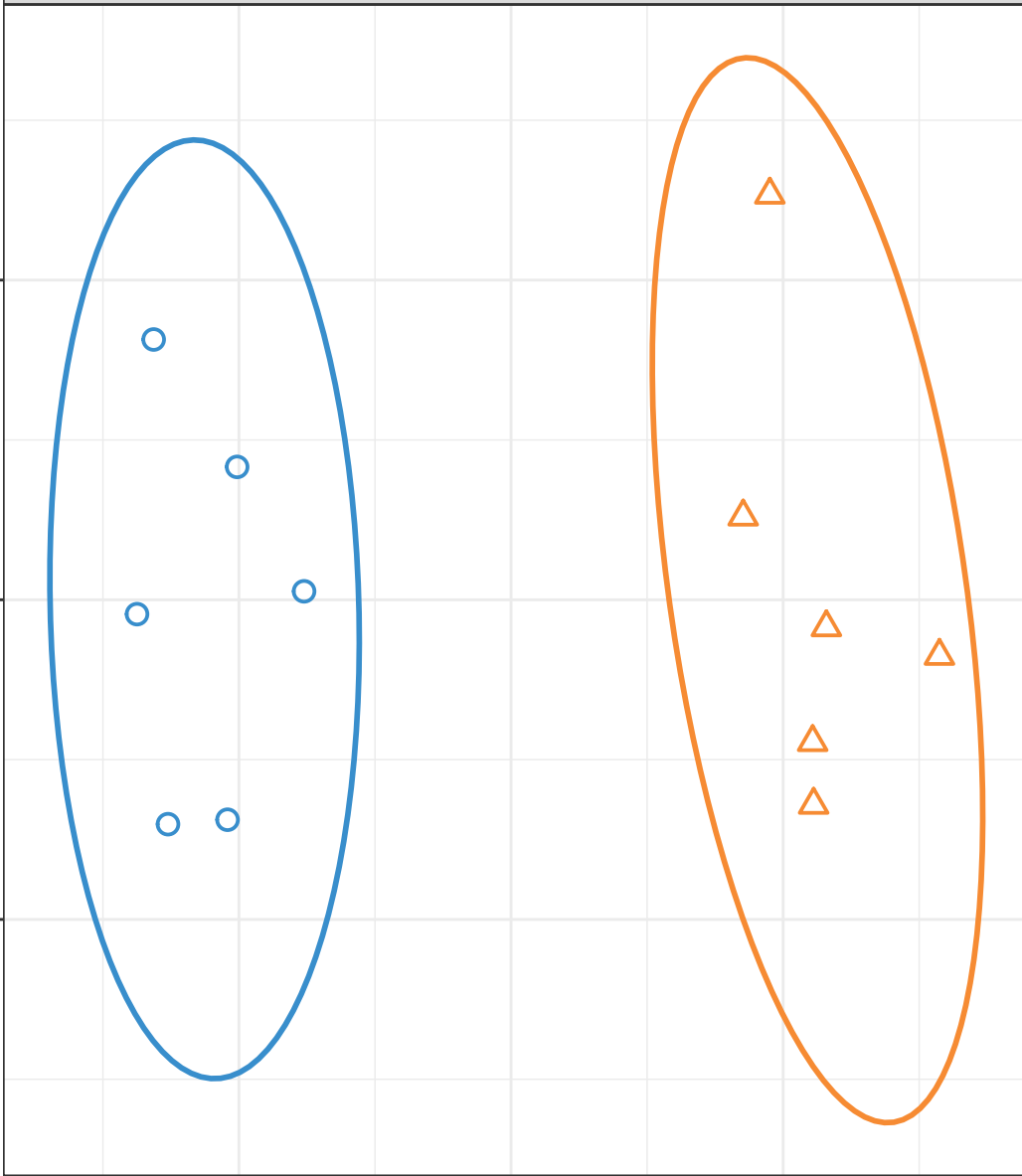
0

40

X-variate 1: 45% expl. var

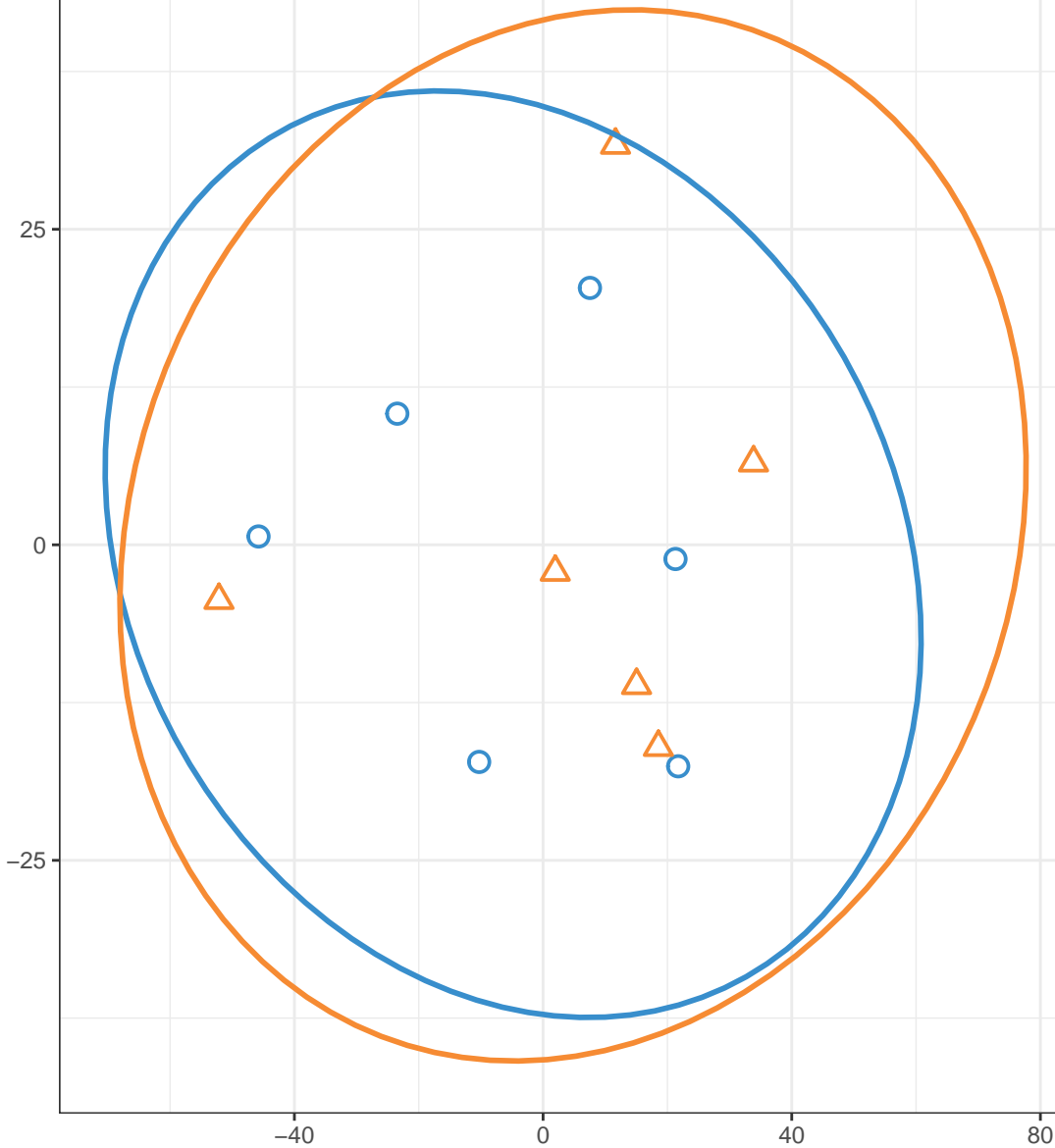
Legend

- RPMI
- △ Sera



transcriptome PLSDA single 2/3

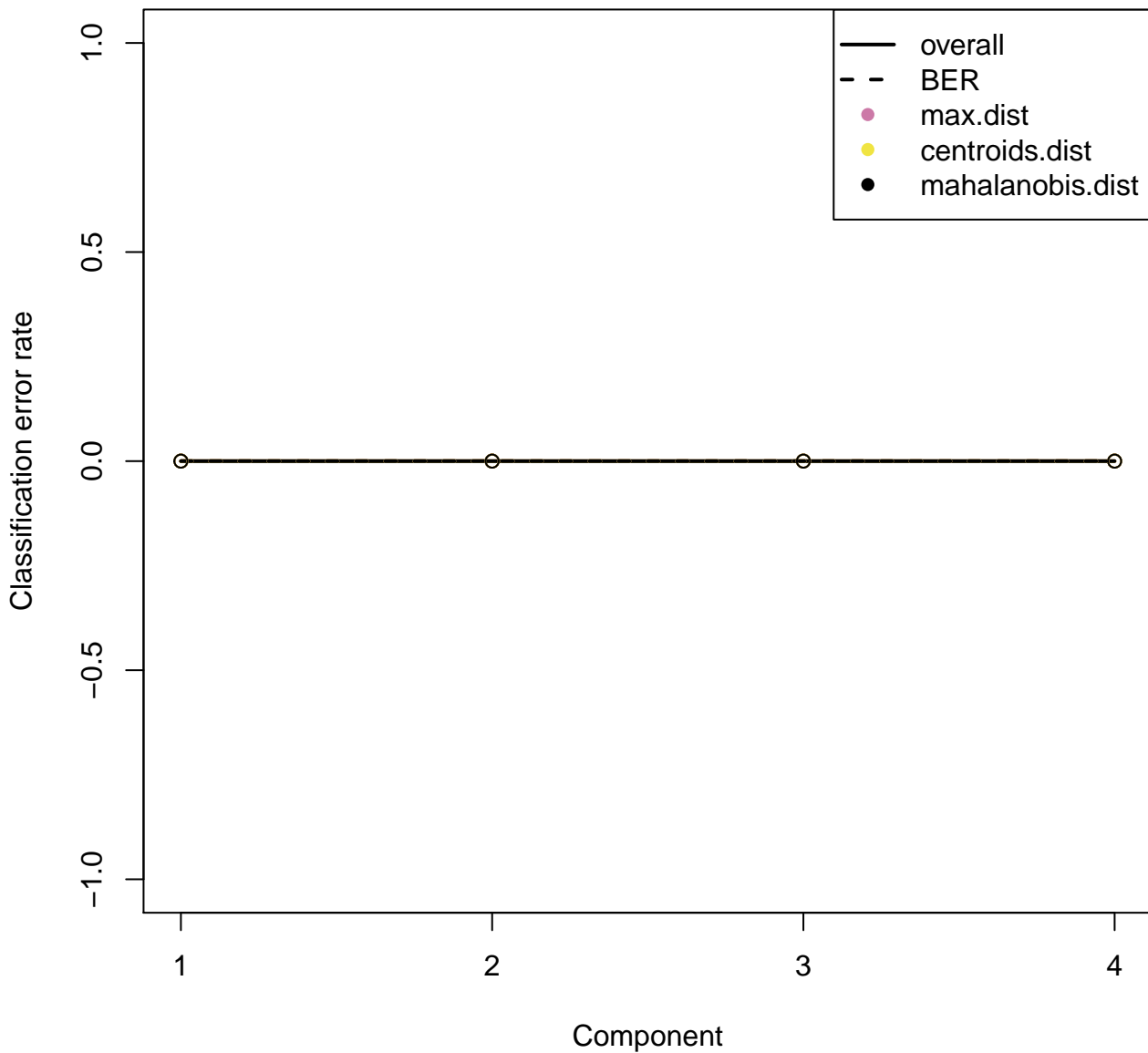
X-variate 3: 5% expl. var



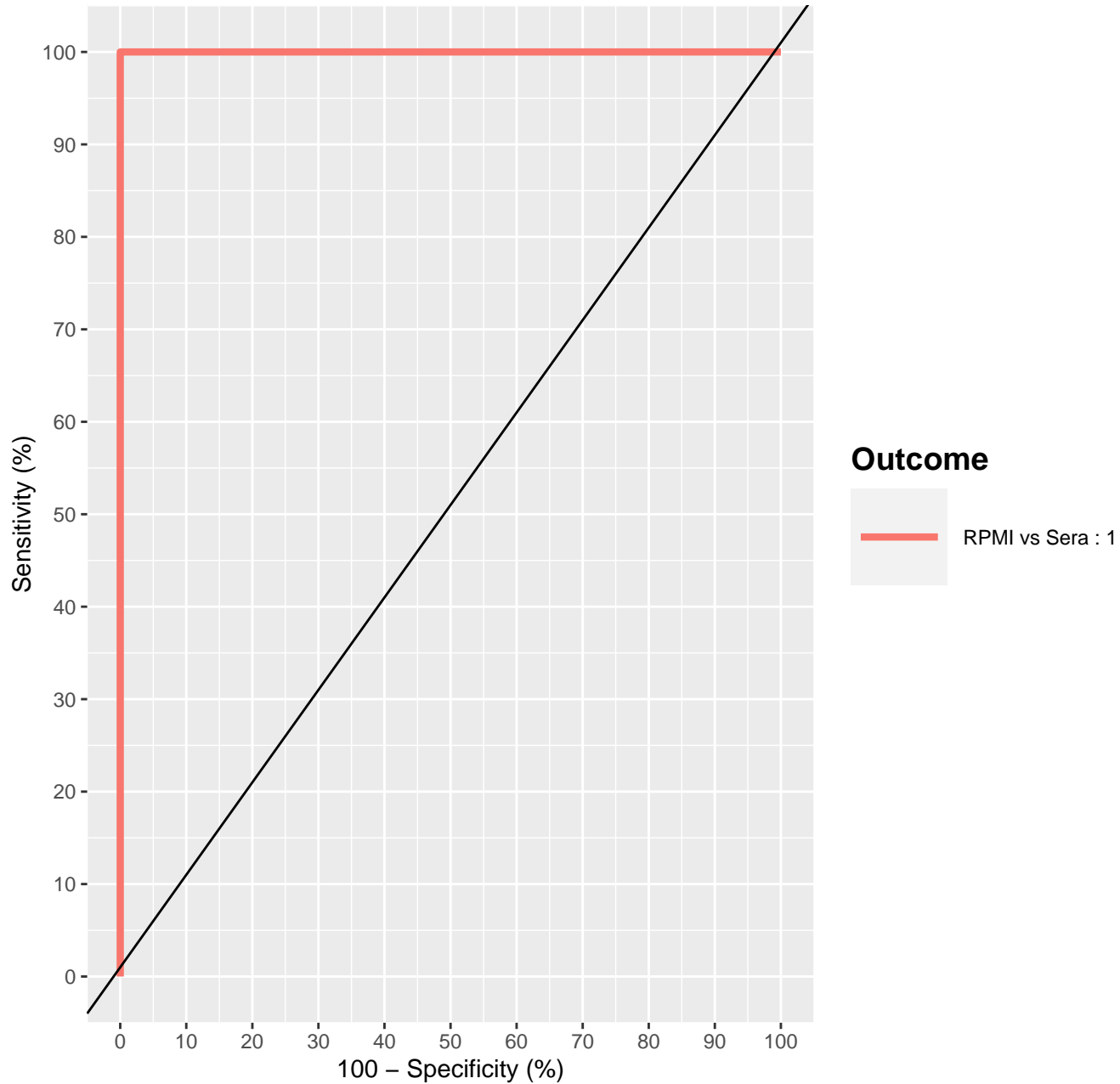
Legend

○ RPMI

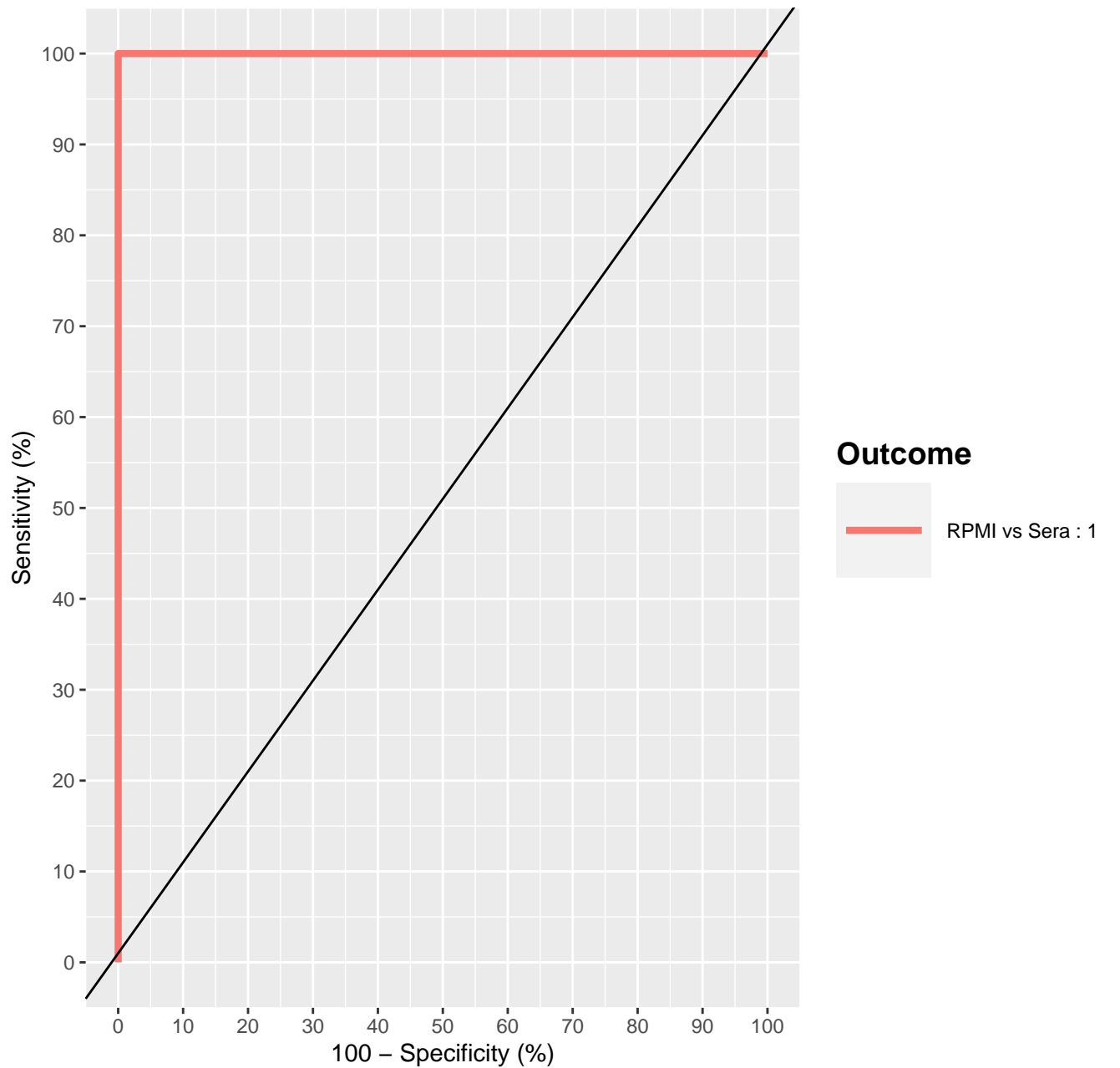
△ Sera



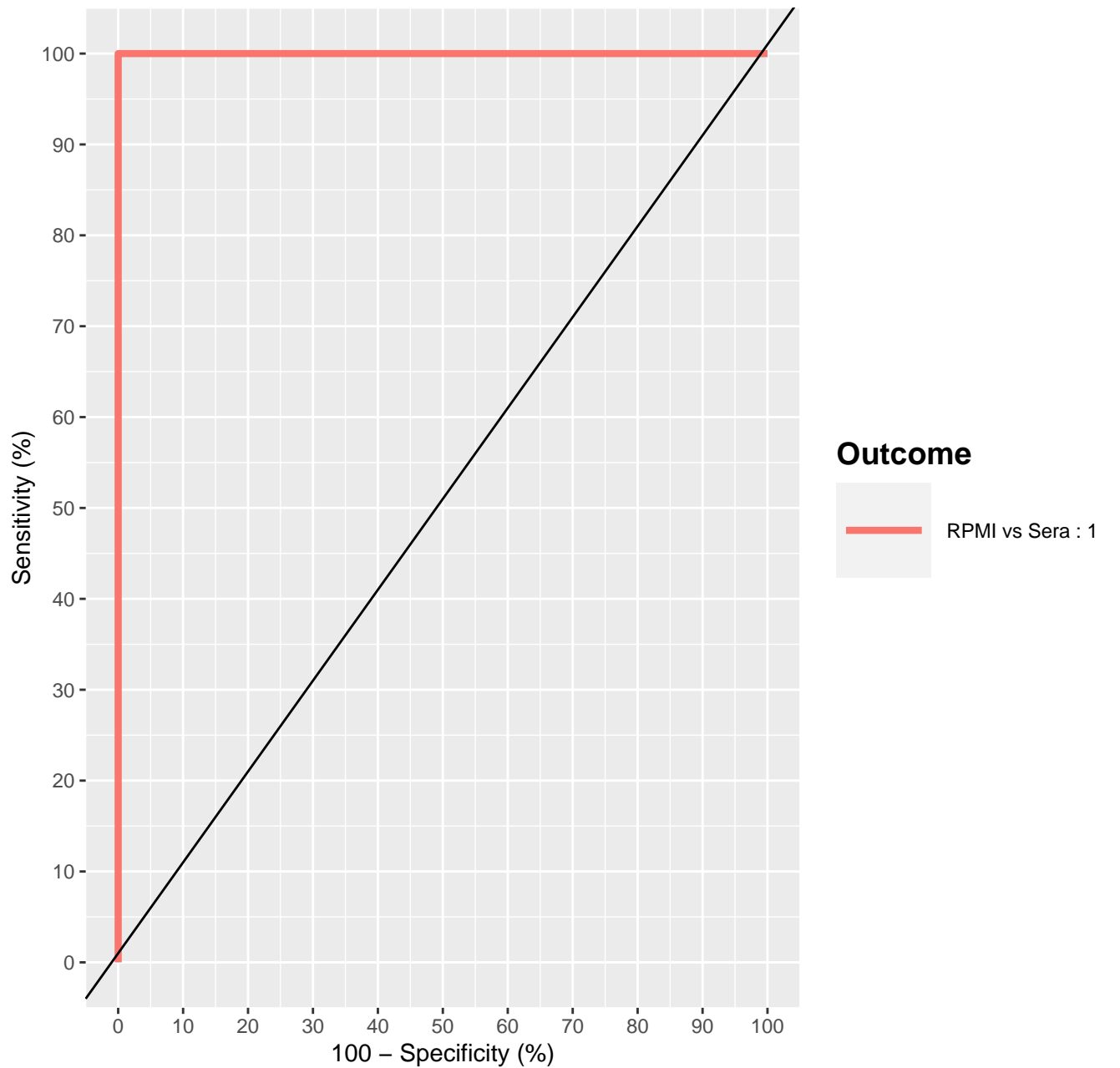
ROC Curve Using Comp(s): 1



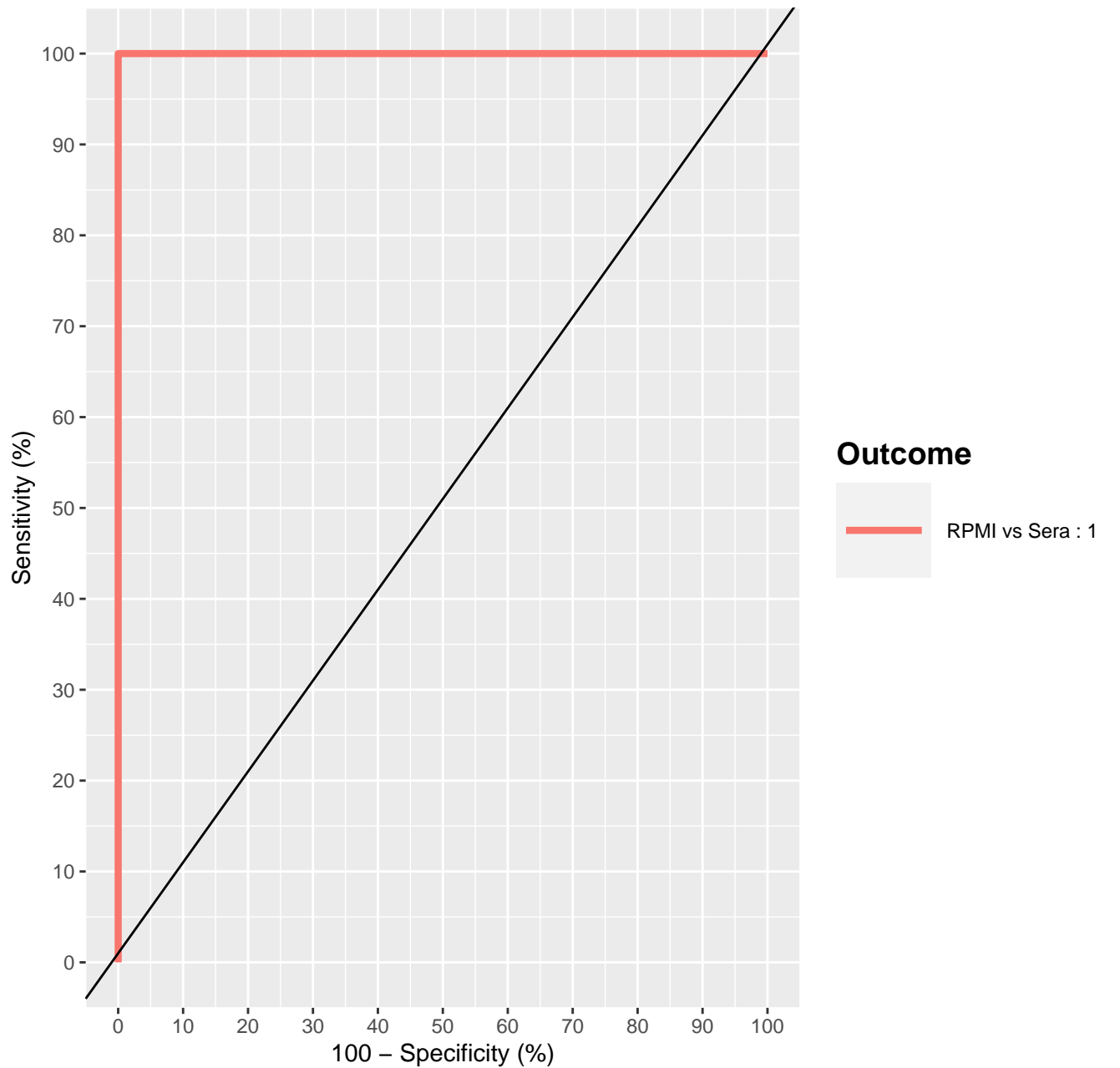
ROC Curve Using Comp(s): 1, 2



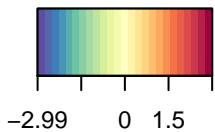
ROC Curve Using Comp(s): 1, 2, 3



ROC Curve Using Comp(s): 1, 2, 3, 4



Color key

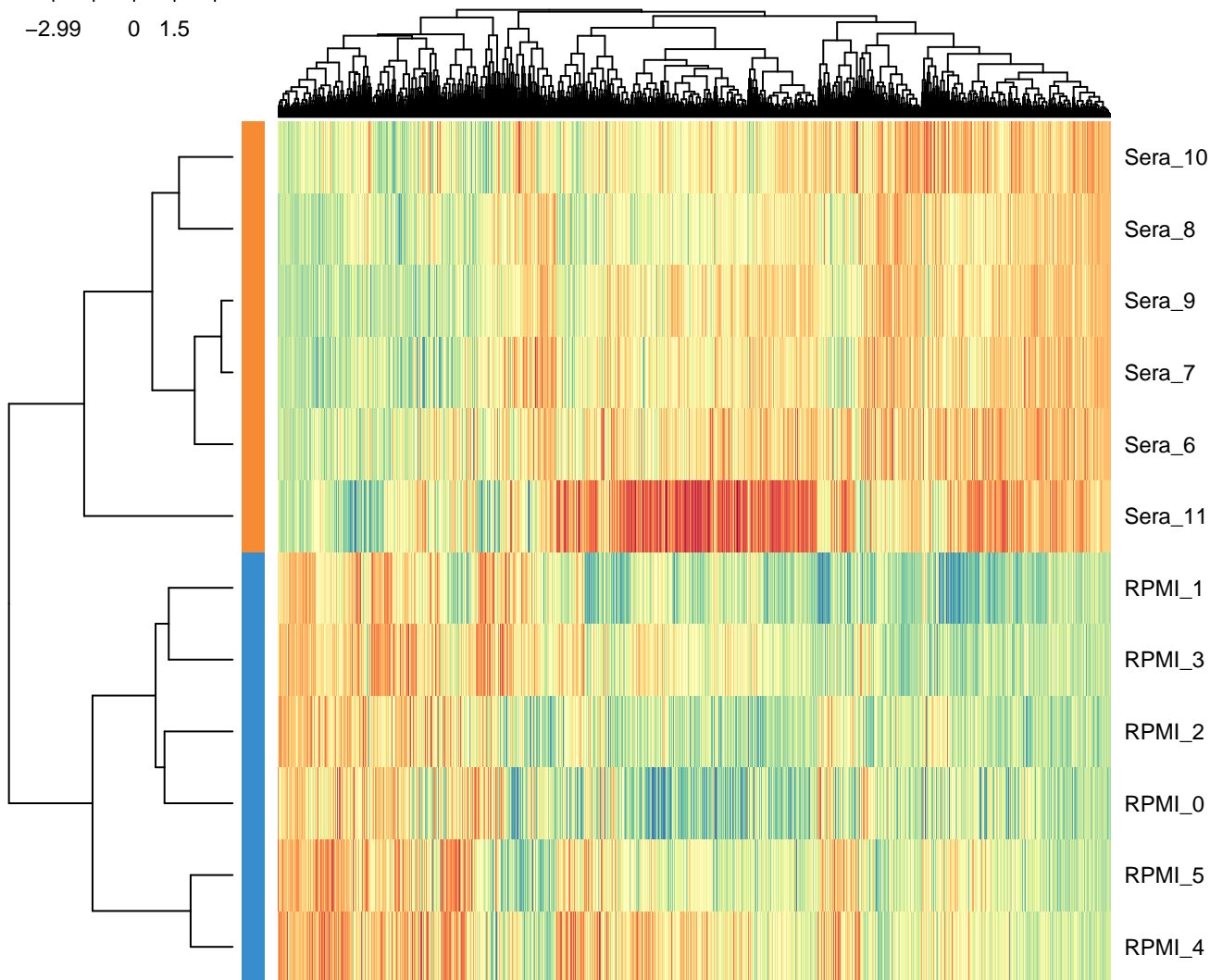


PLSDA

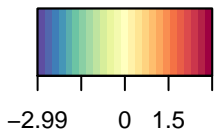
Status

■ RPMI

■ Sera



Color key

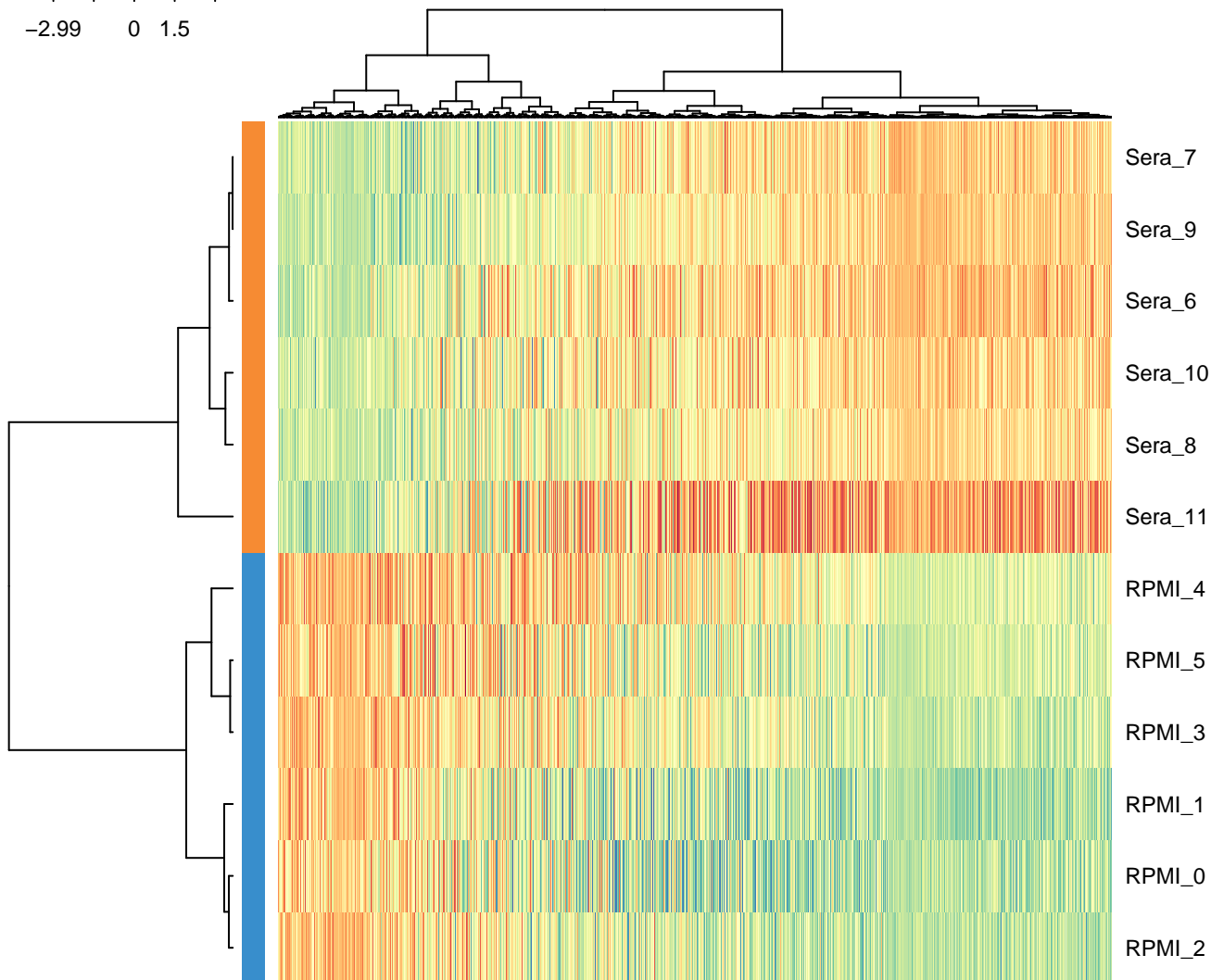


PLSDA Component 1

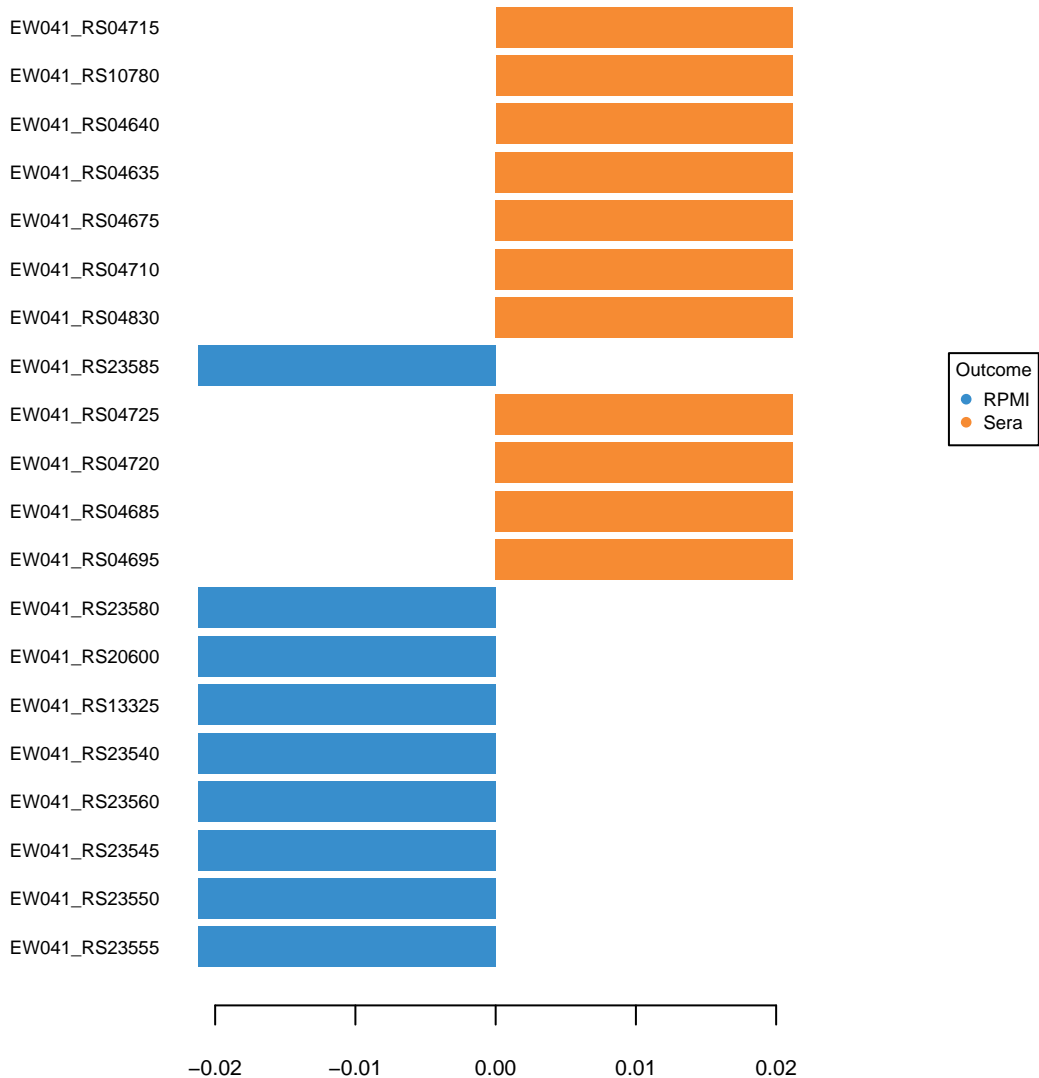
Status

RPMI

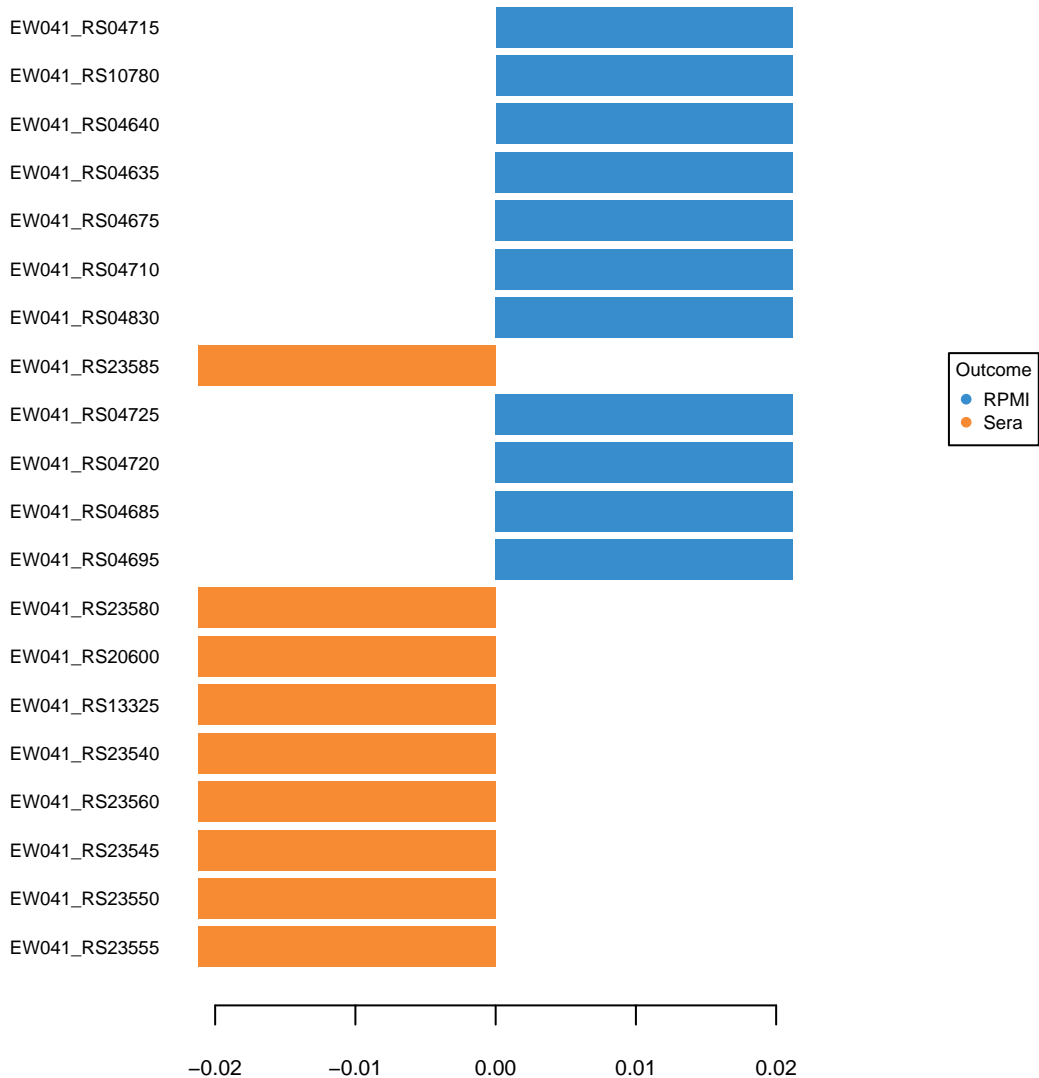
Sera



transcriptome 1 PLSDA max load

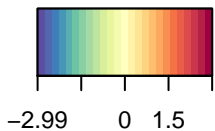


transcriptome 1 PLSDA min load



PLSDA Component 2

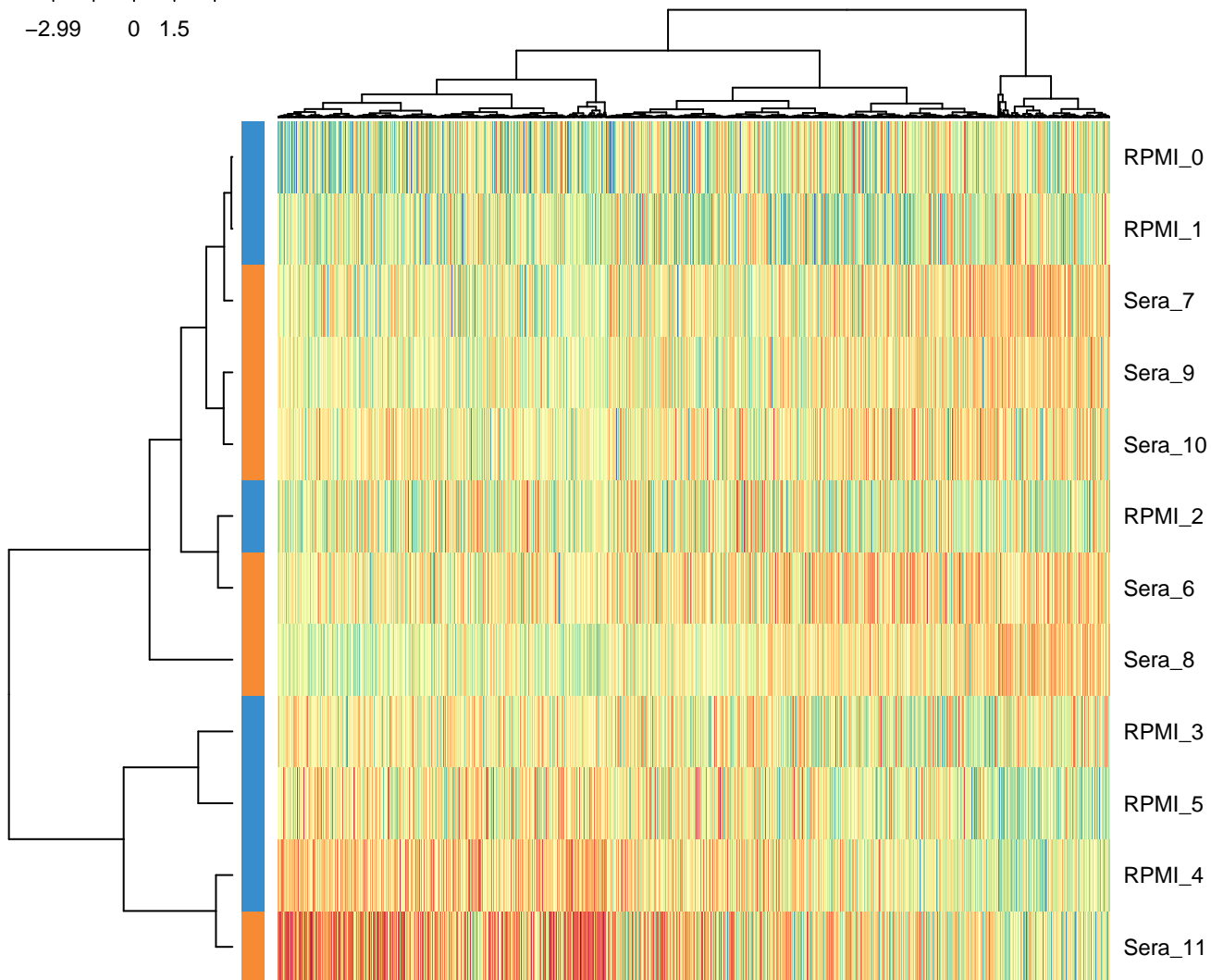
Color key



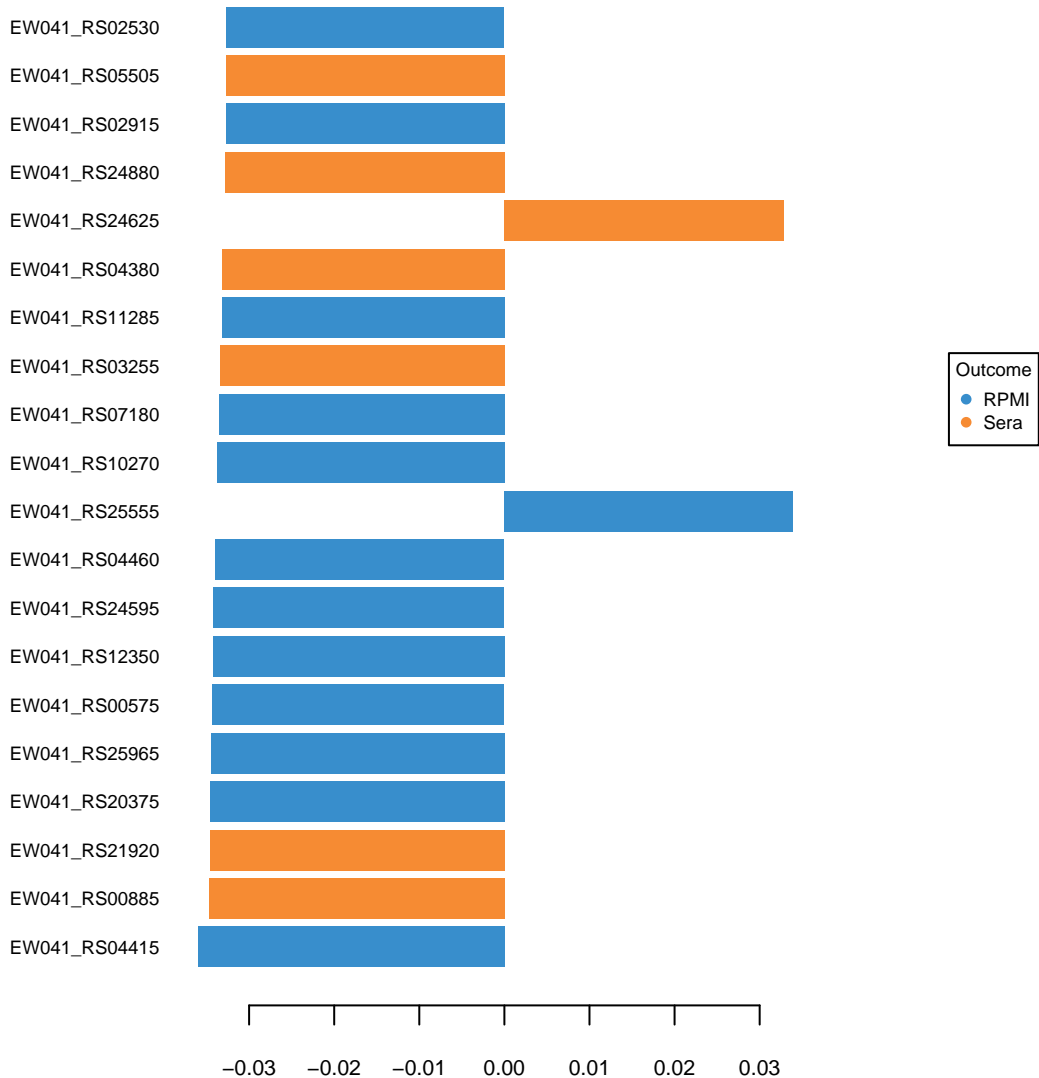
Status

■ RPMI

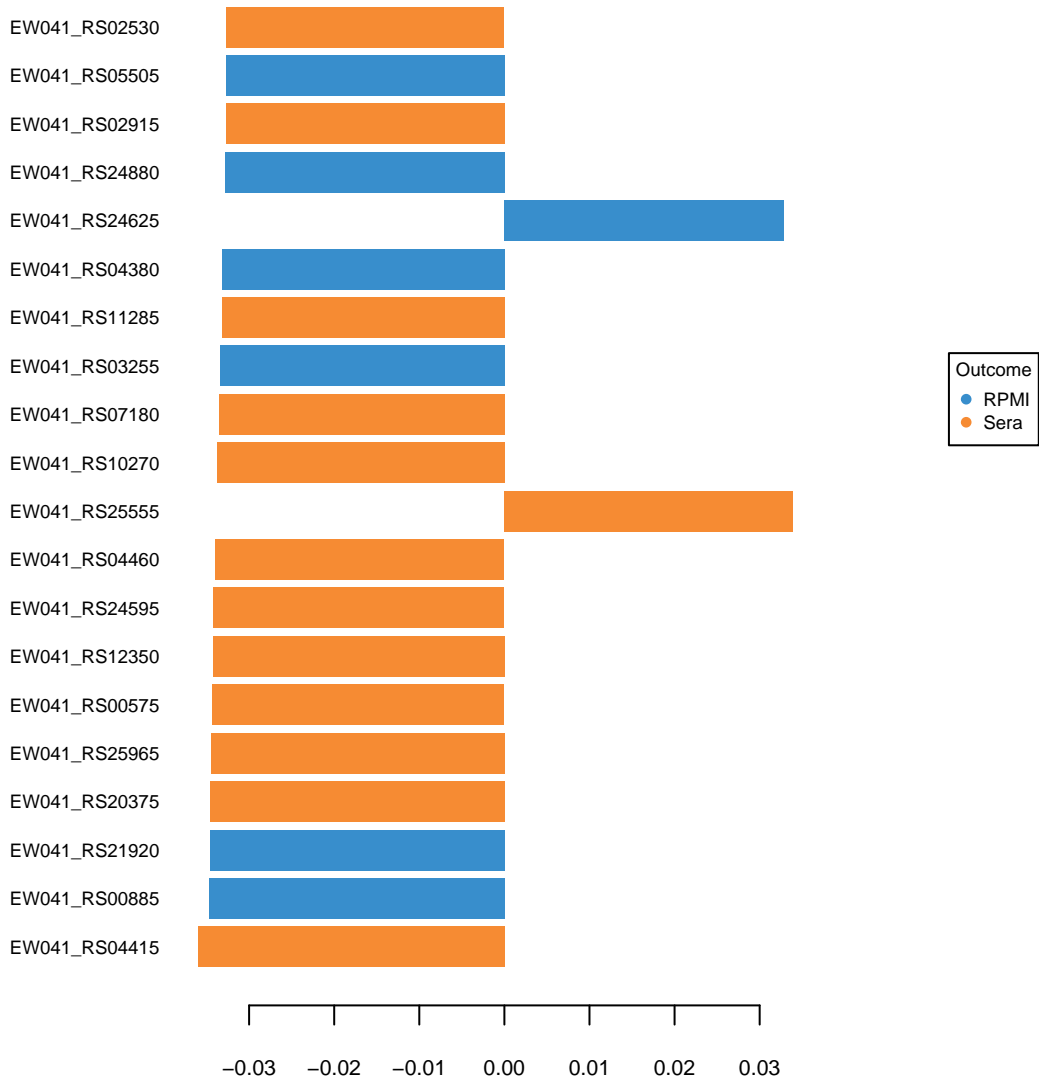
■ Sera



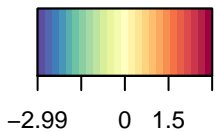
transcriptome 2 PLSDA max load



transcriptome 2 PLSDA min load



Color key

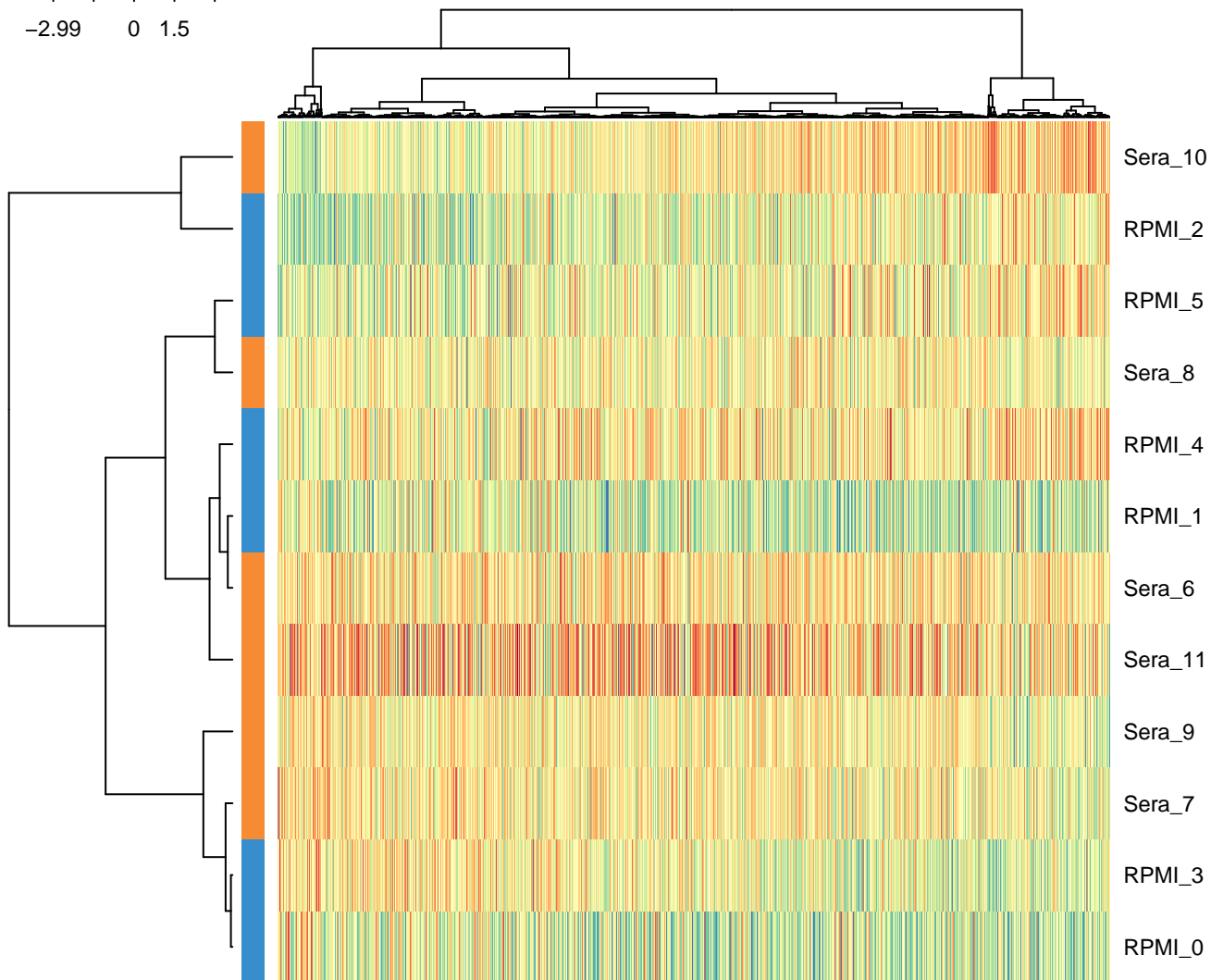


PLSDA Component 3

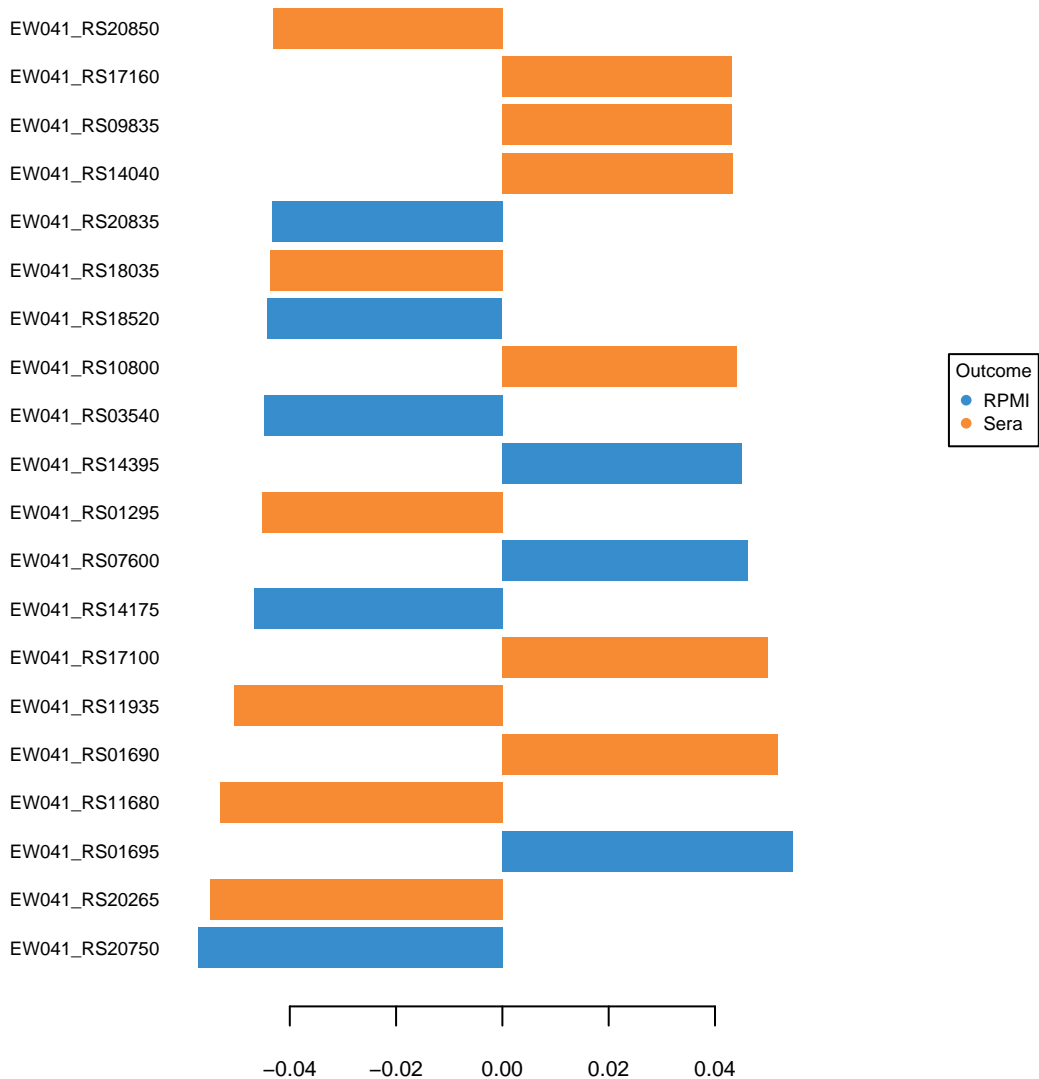
Status

RPMI

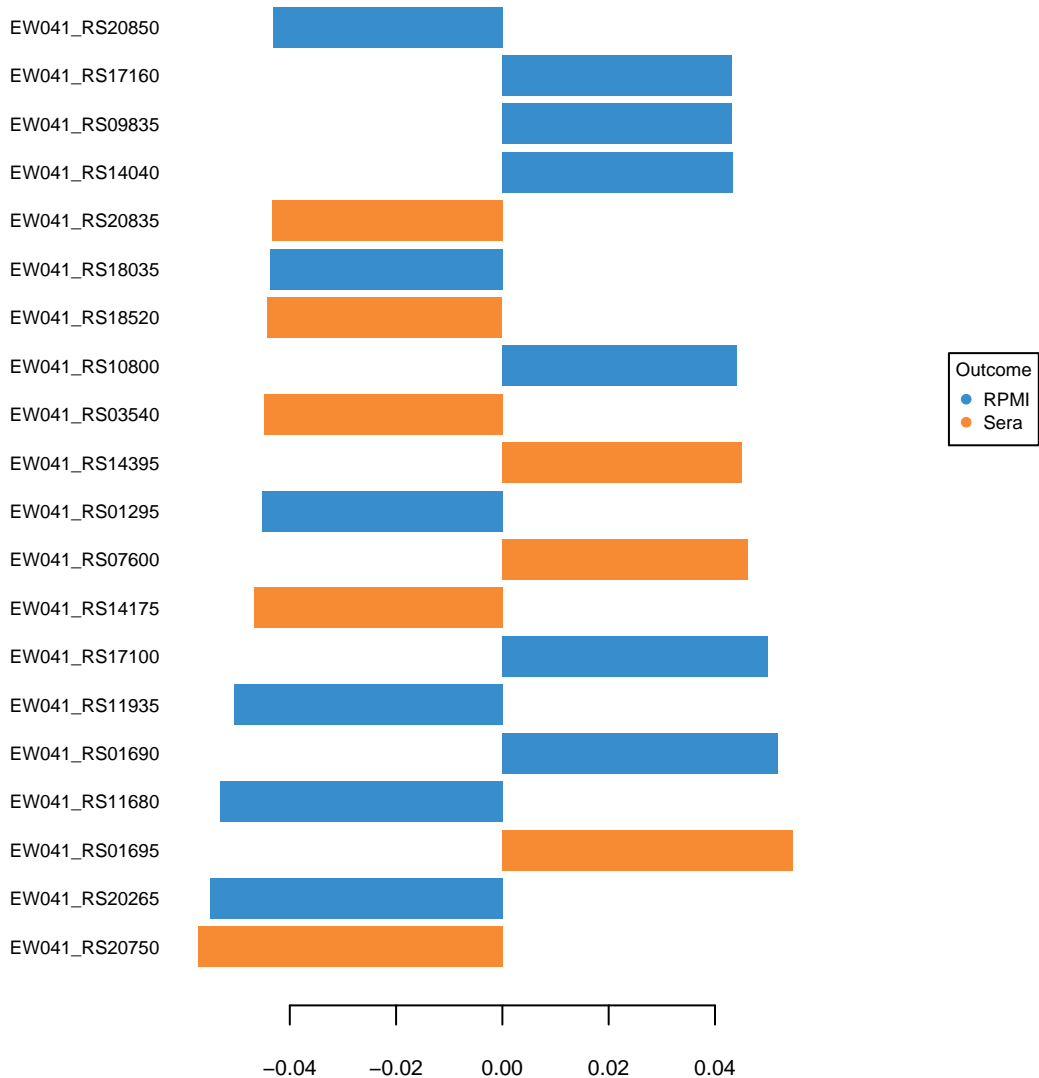
Sera



transcriptome 3 PLSDA max load

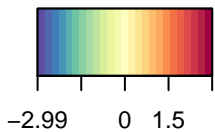


transcriptome 3 PLSDA min load



PLSDA Component 4

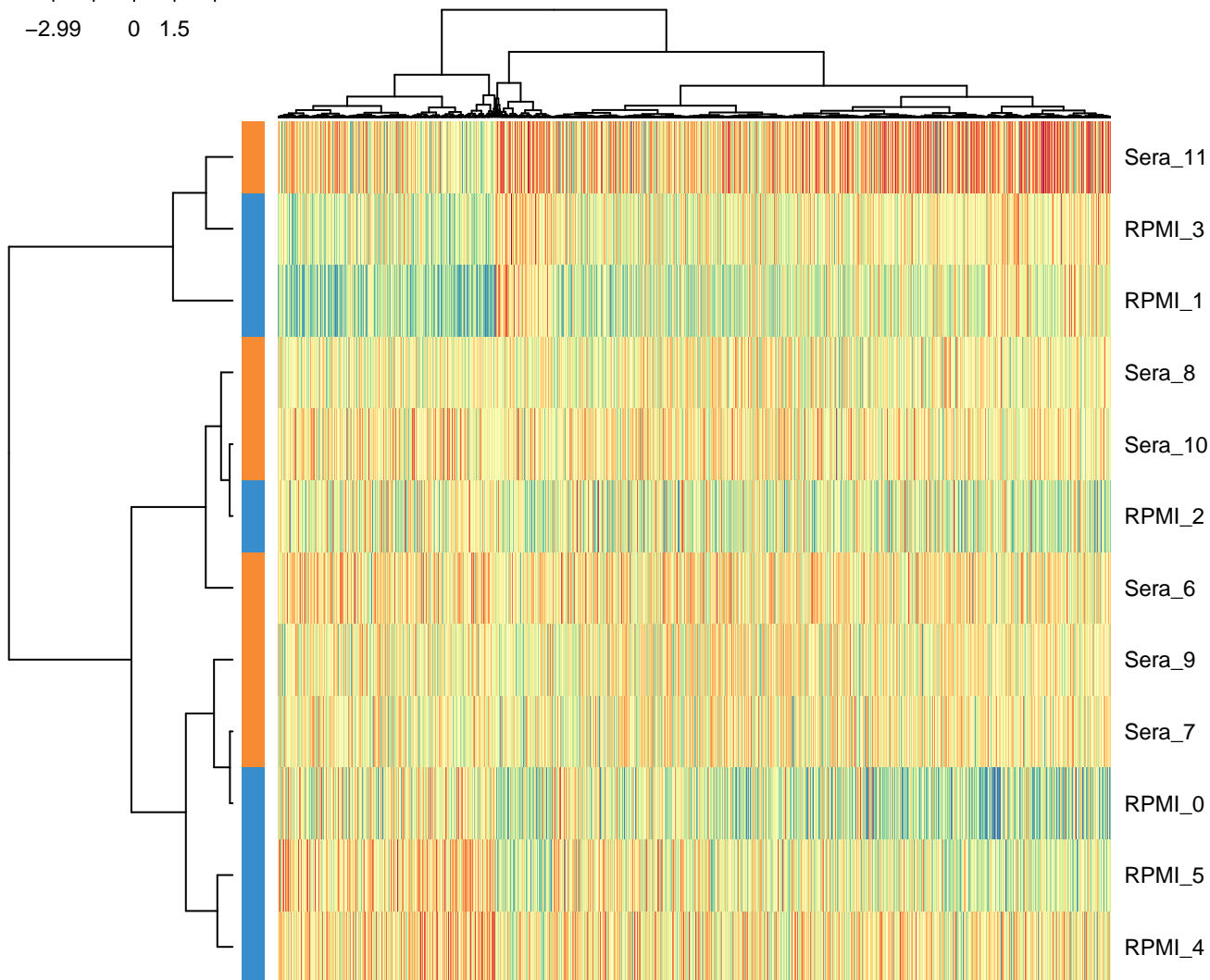
Color key



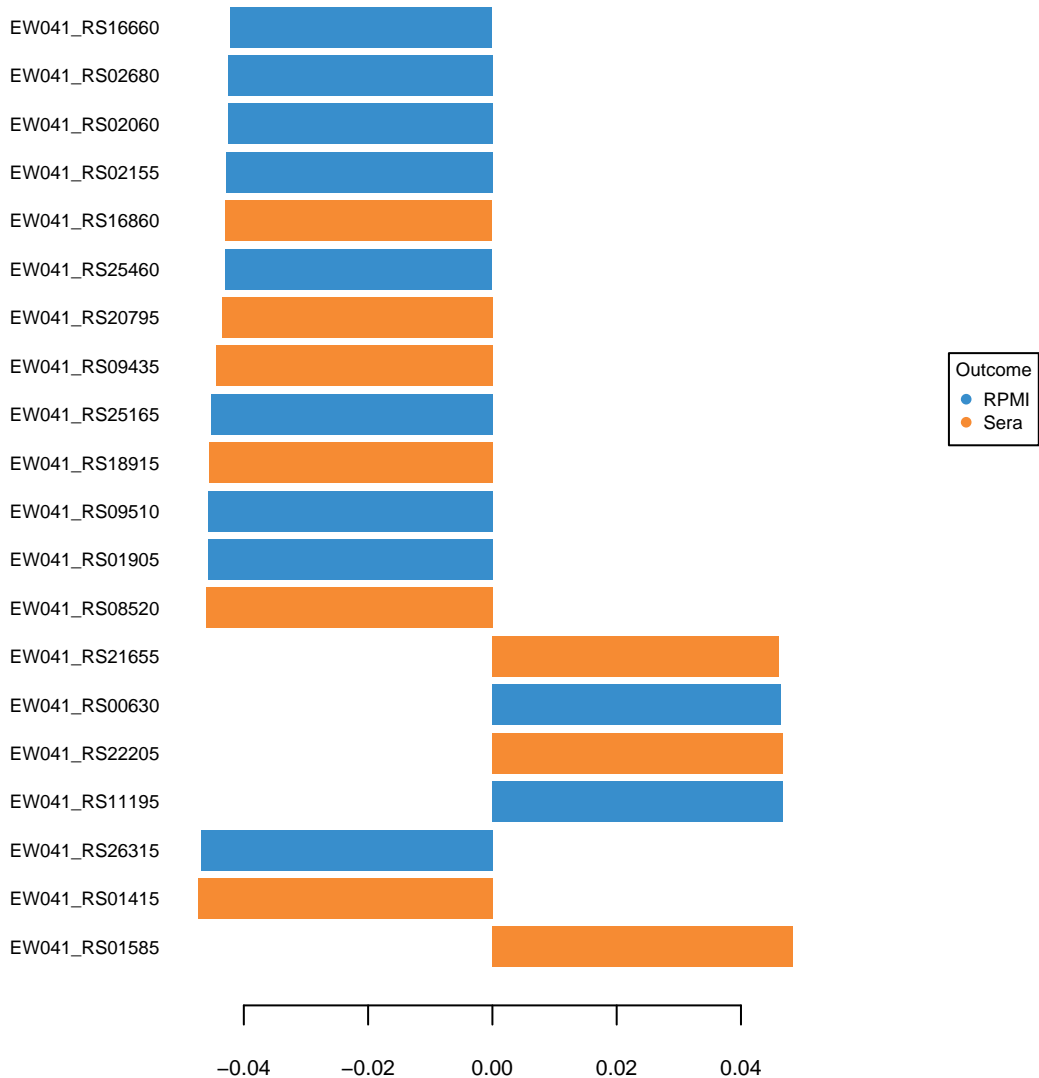
Status

RPMI

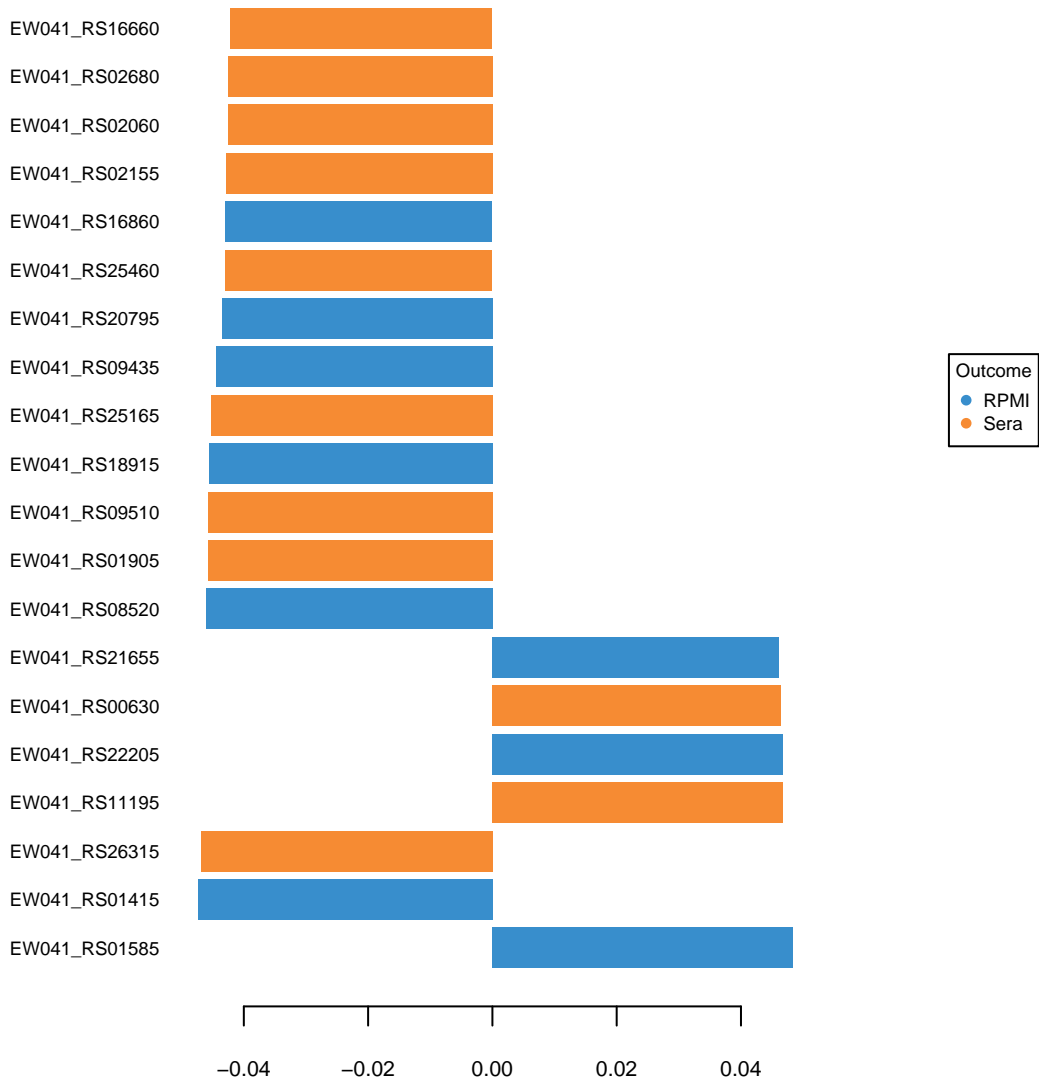
Sera

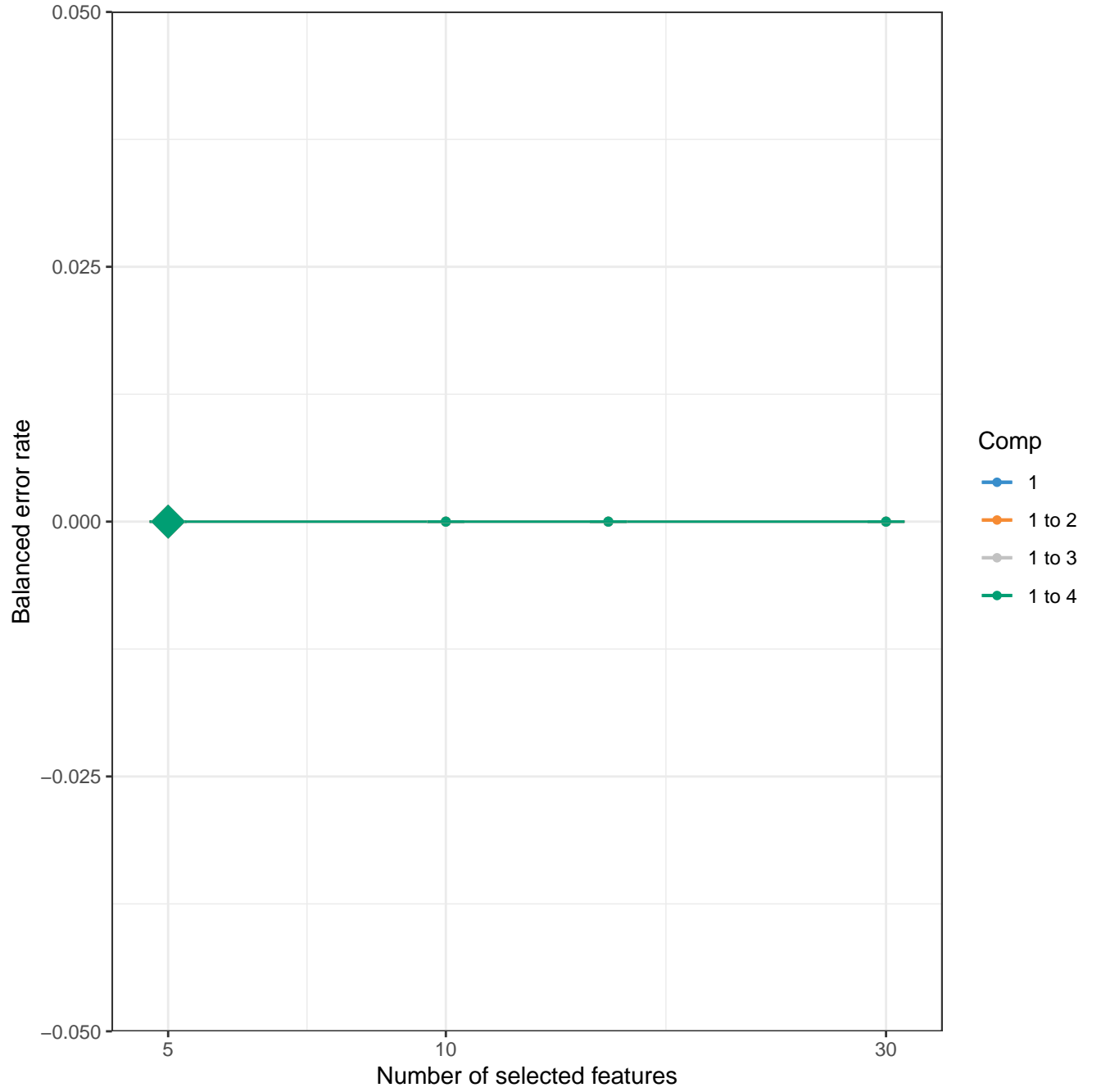


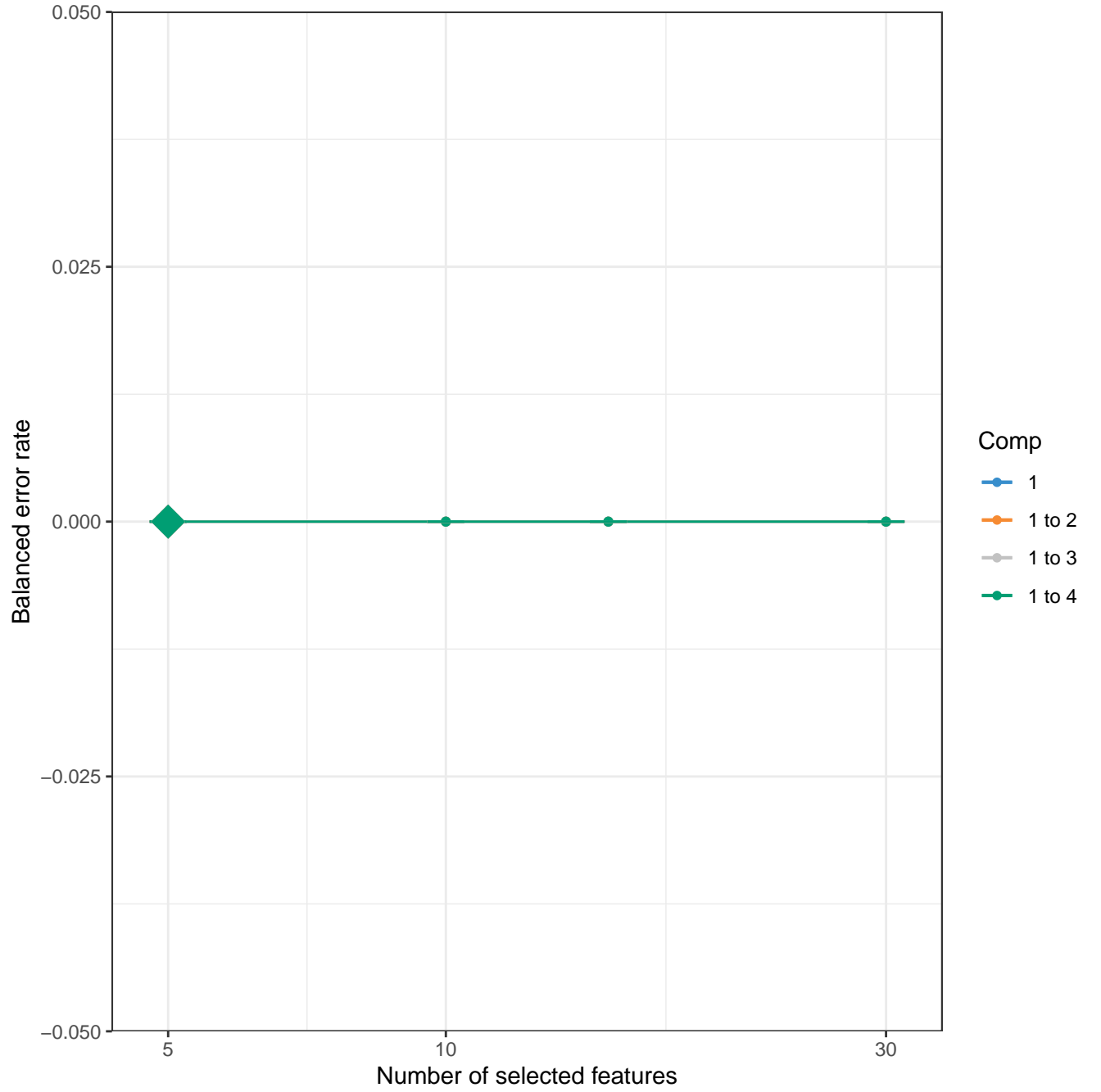
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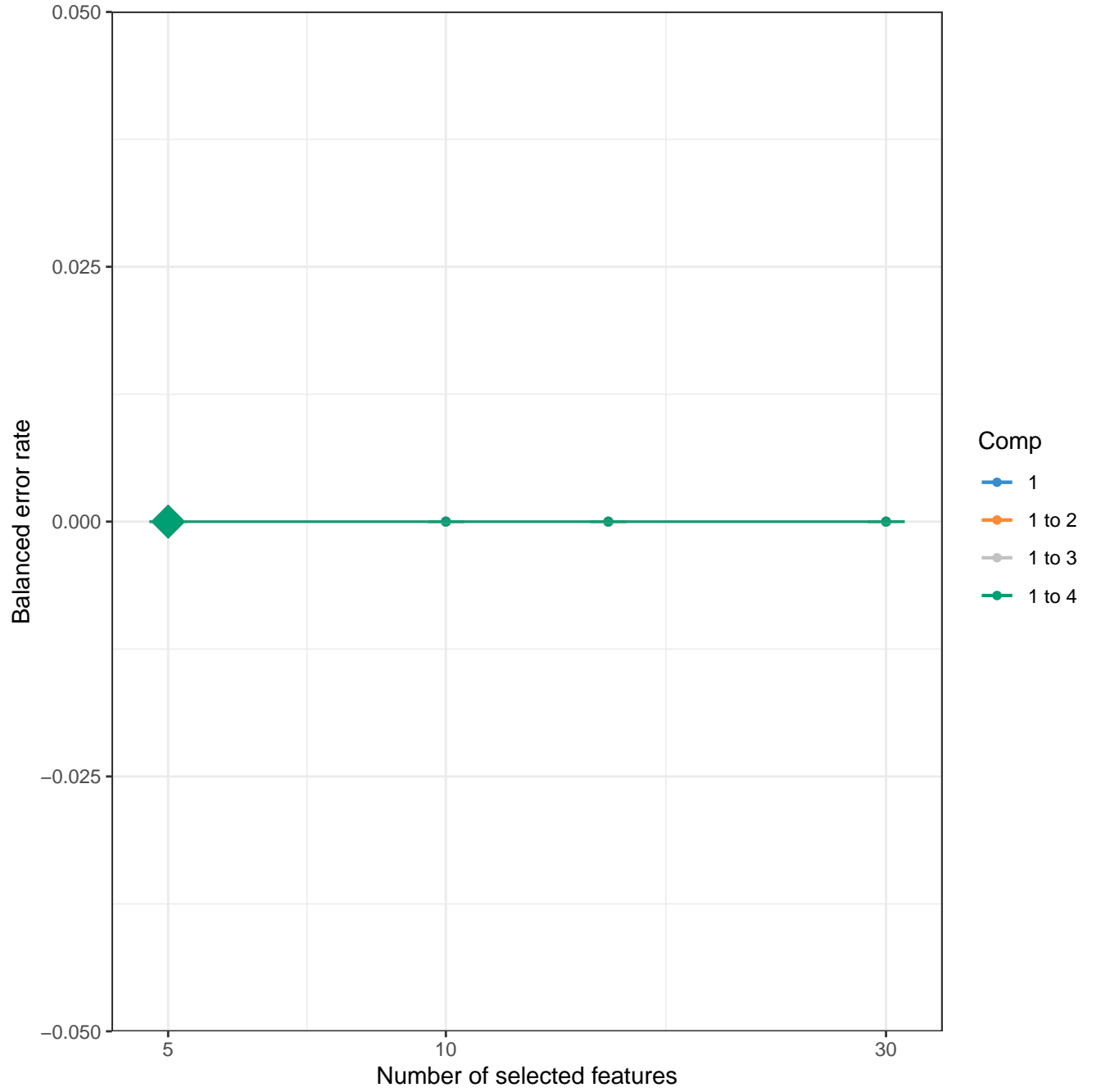


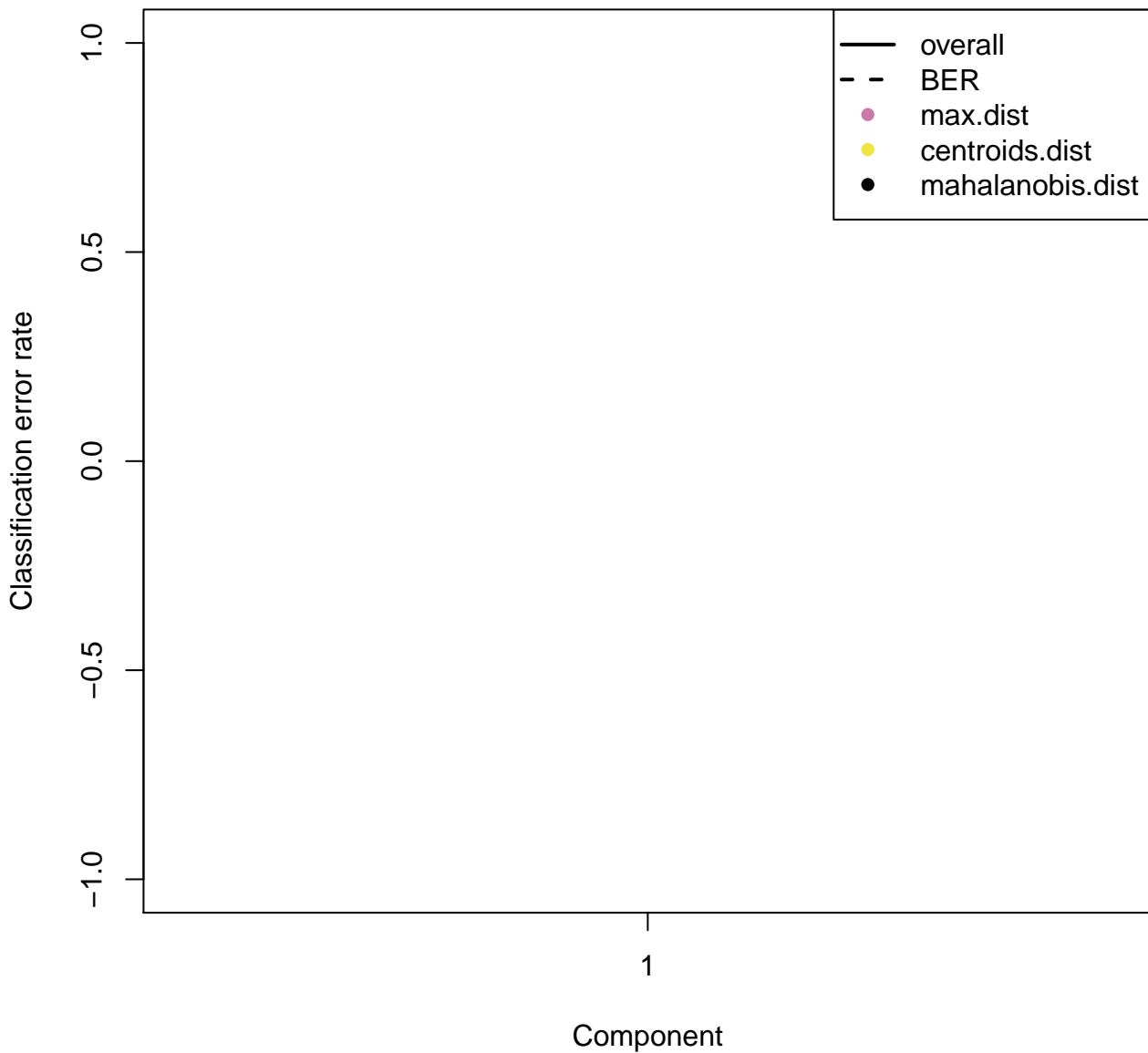
transcriptome 4 PLSDA min load



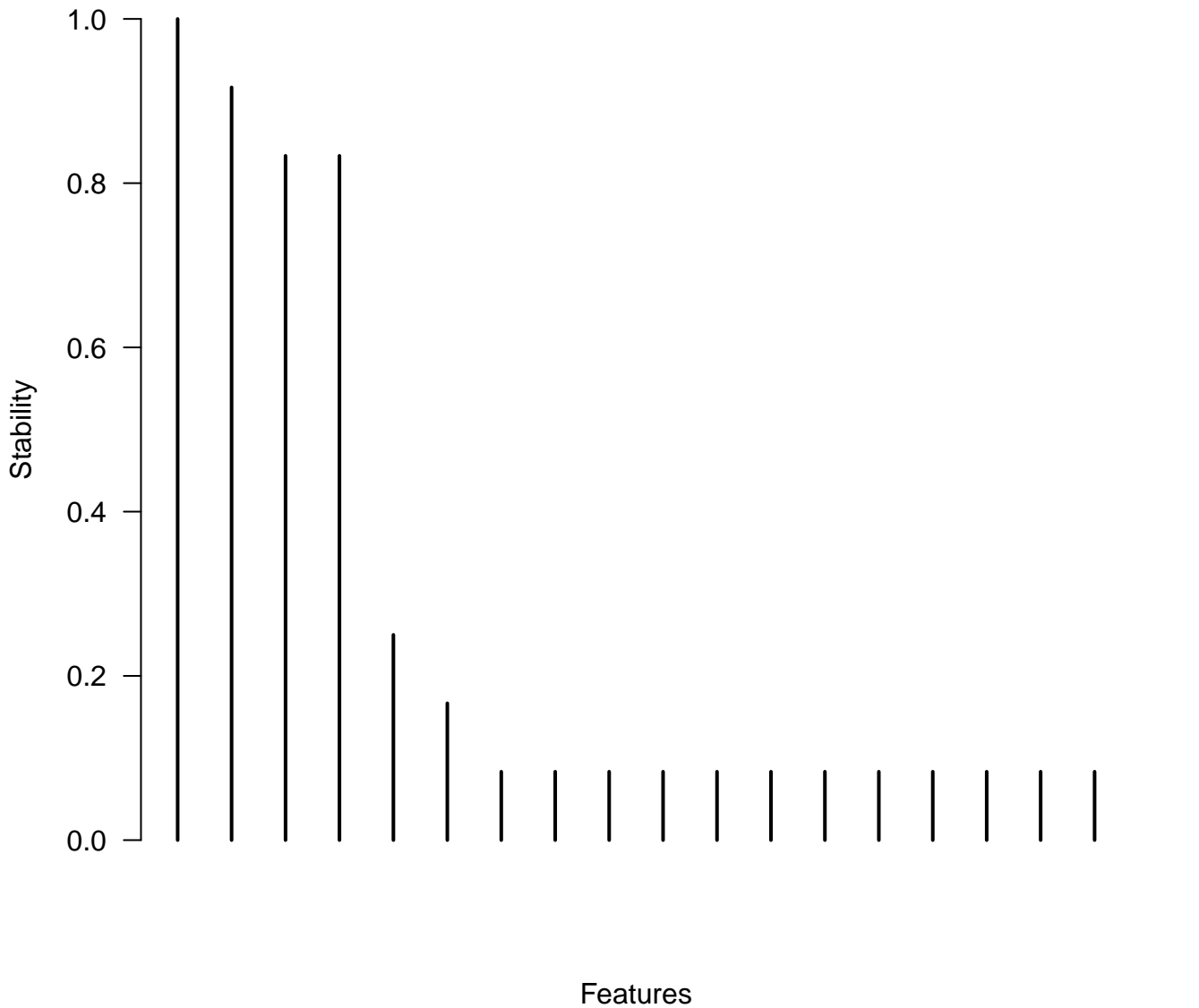




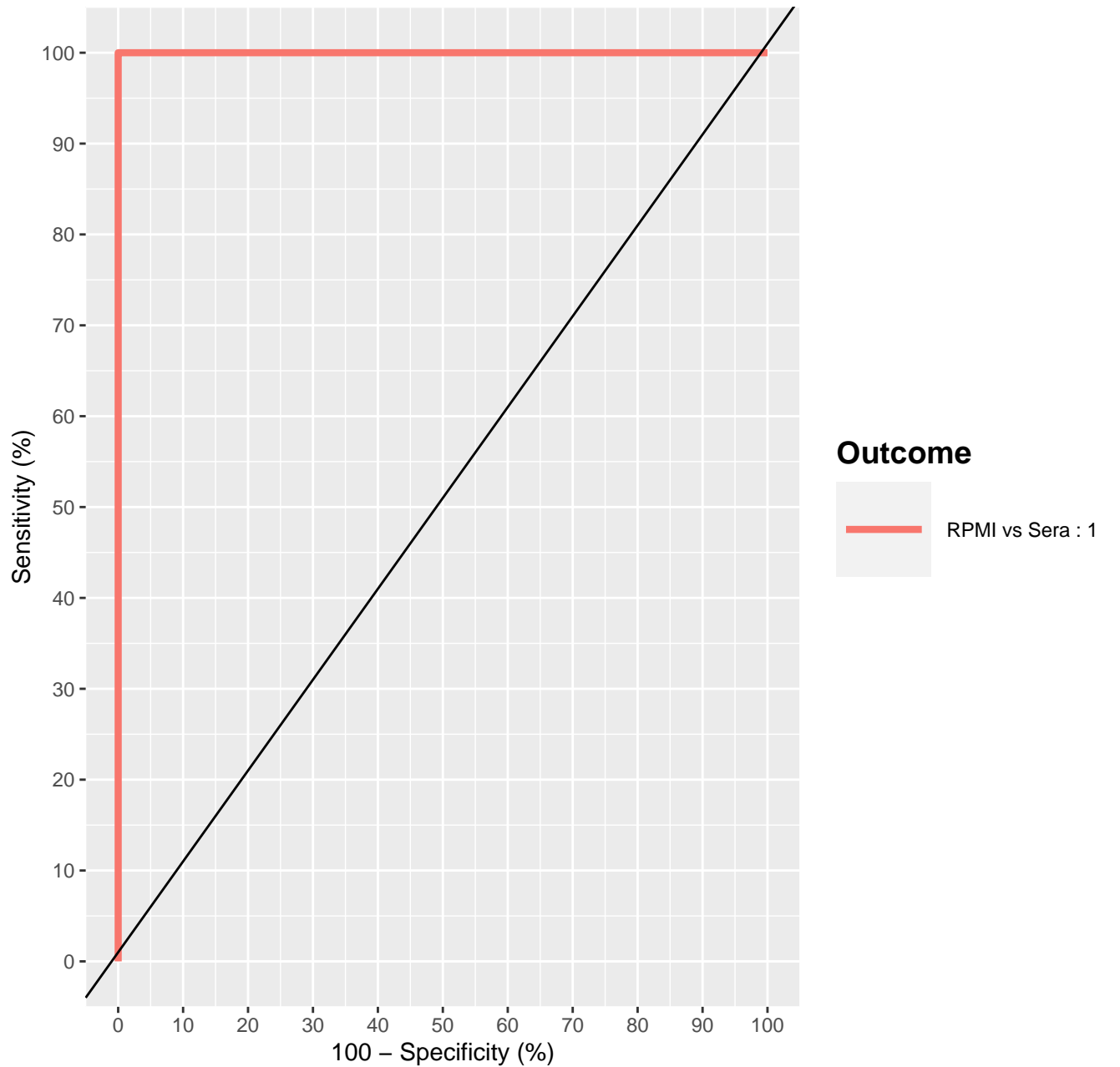




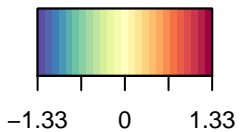
Comp 1



ROC Curve Using Comp(s): 1



Color key

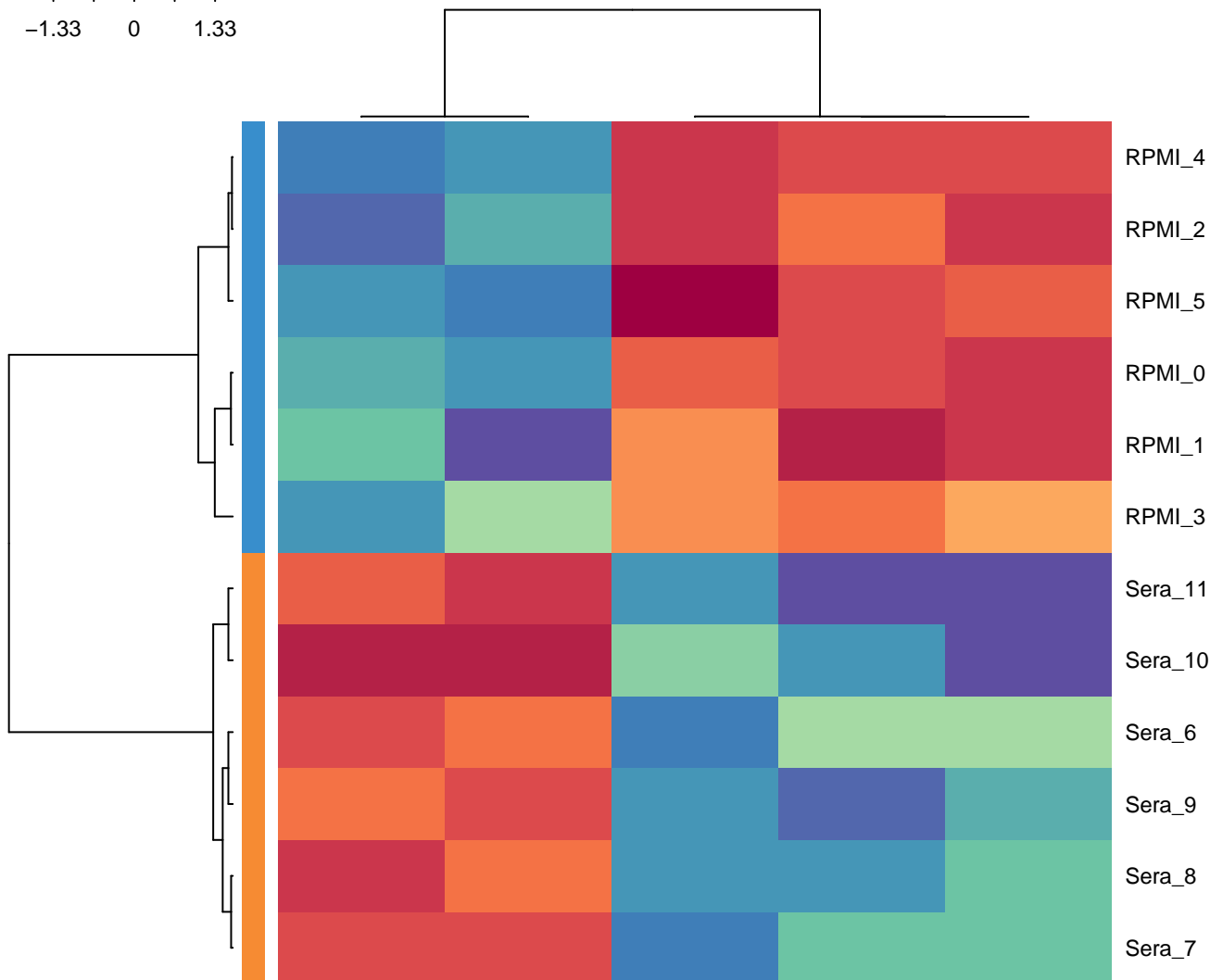


sPLSDA

Status

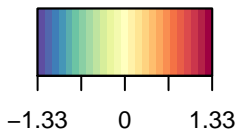
RPMI

Sera



sPLSDA Component 1

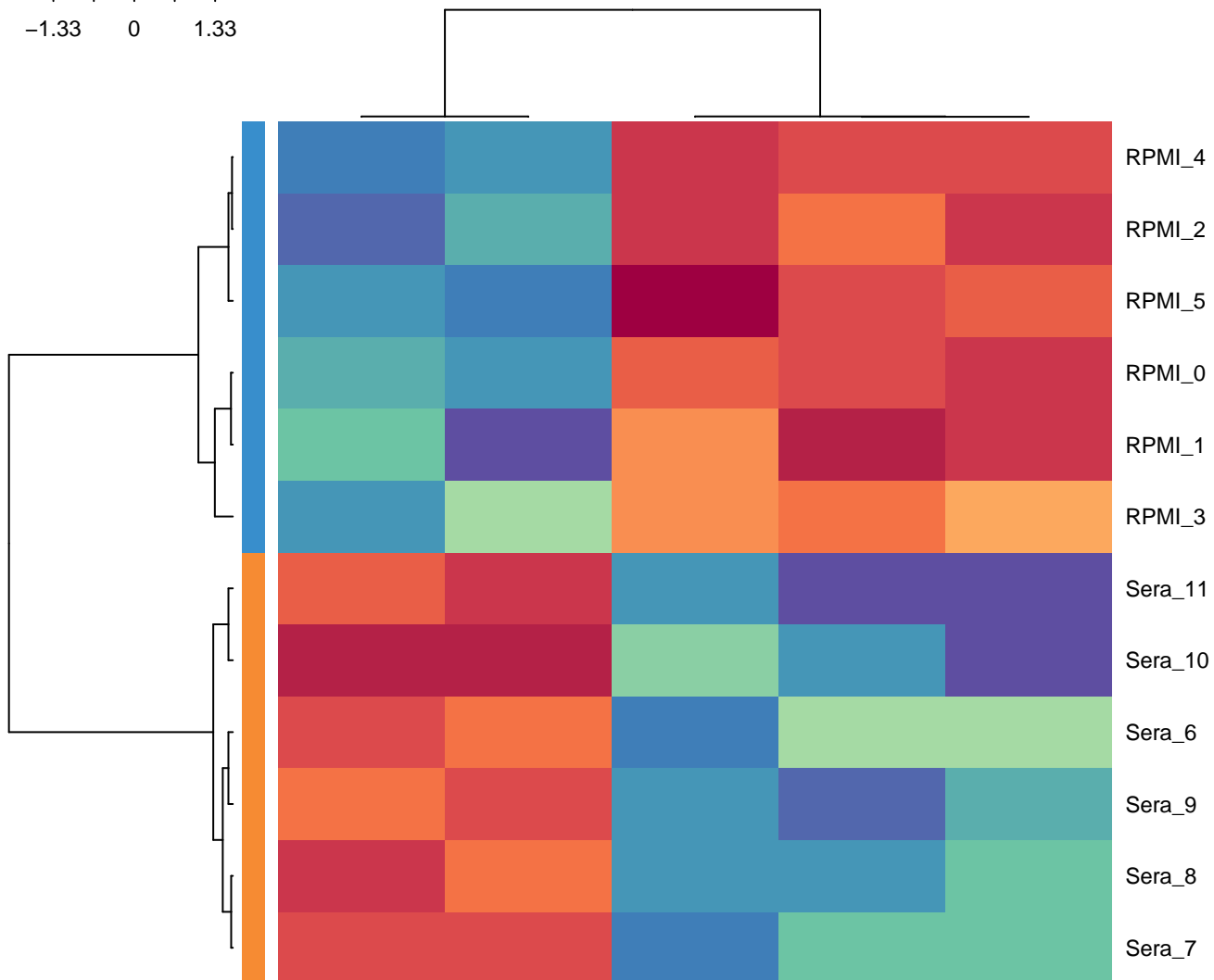
Color key



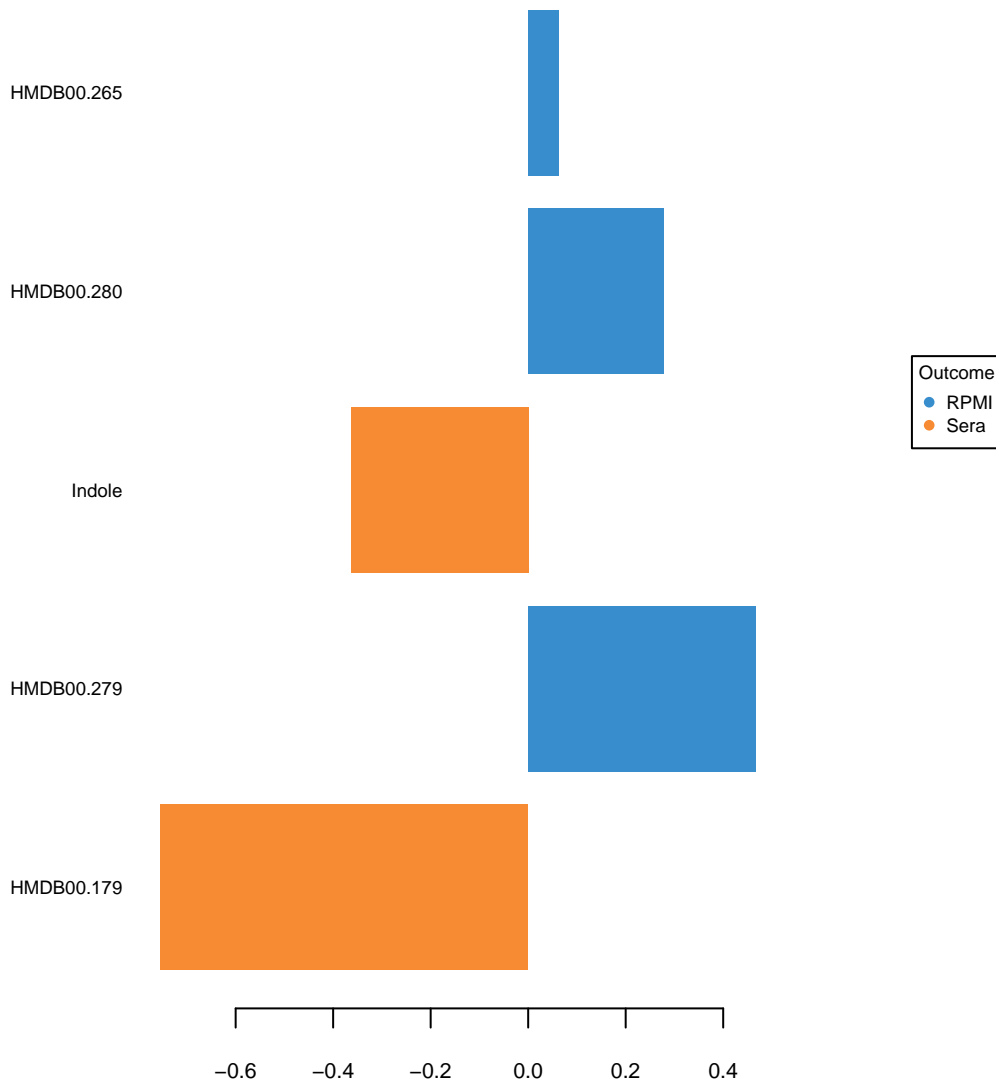
Status

RPMI

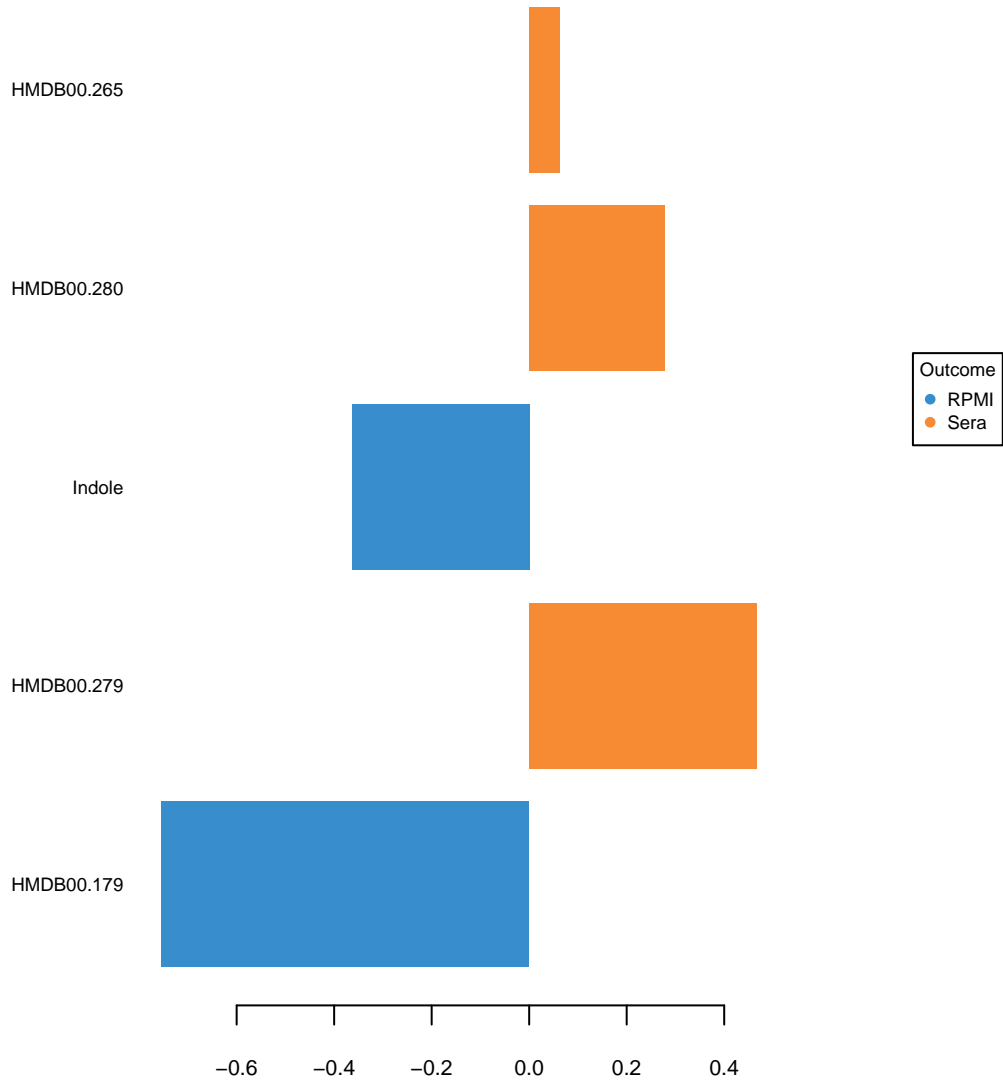
Sera

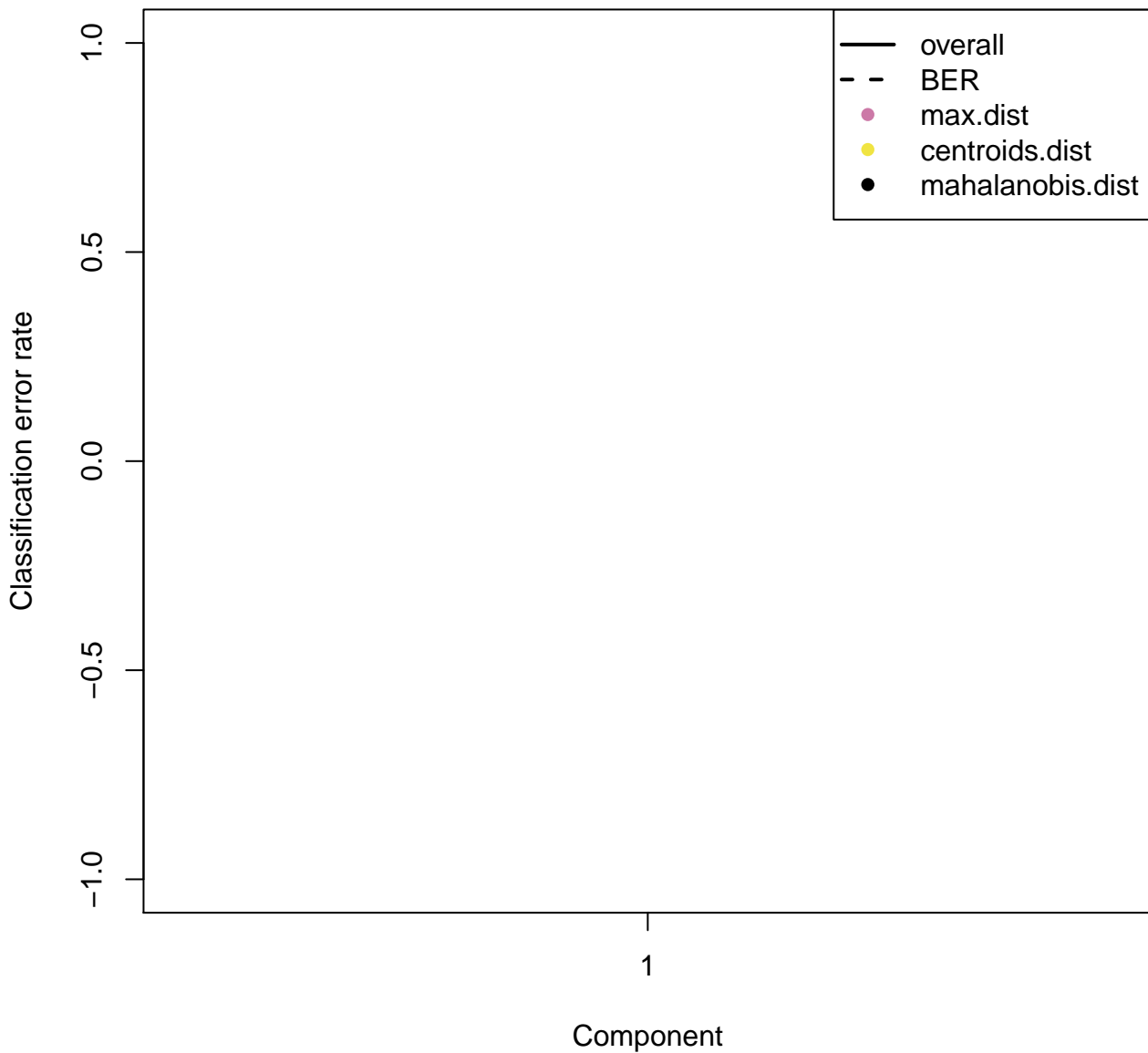


metabolome 1 sPLSDA max load

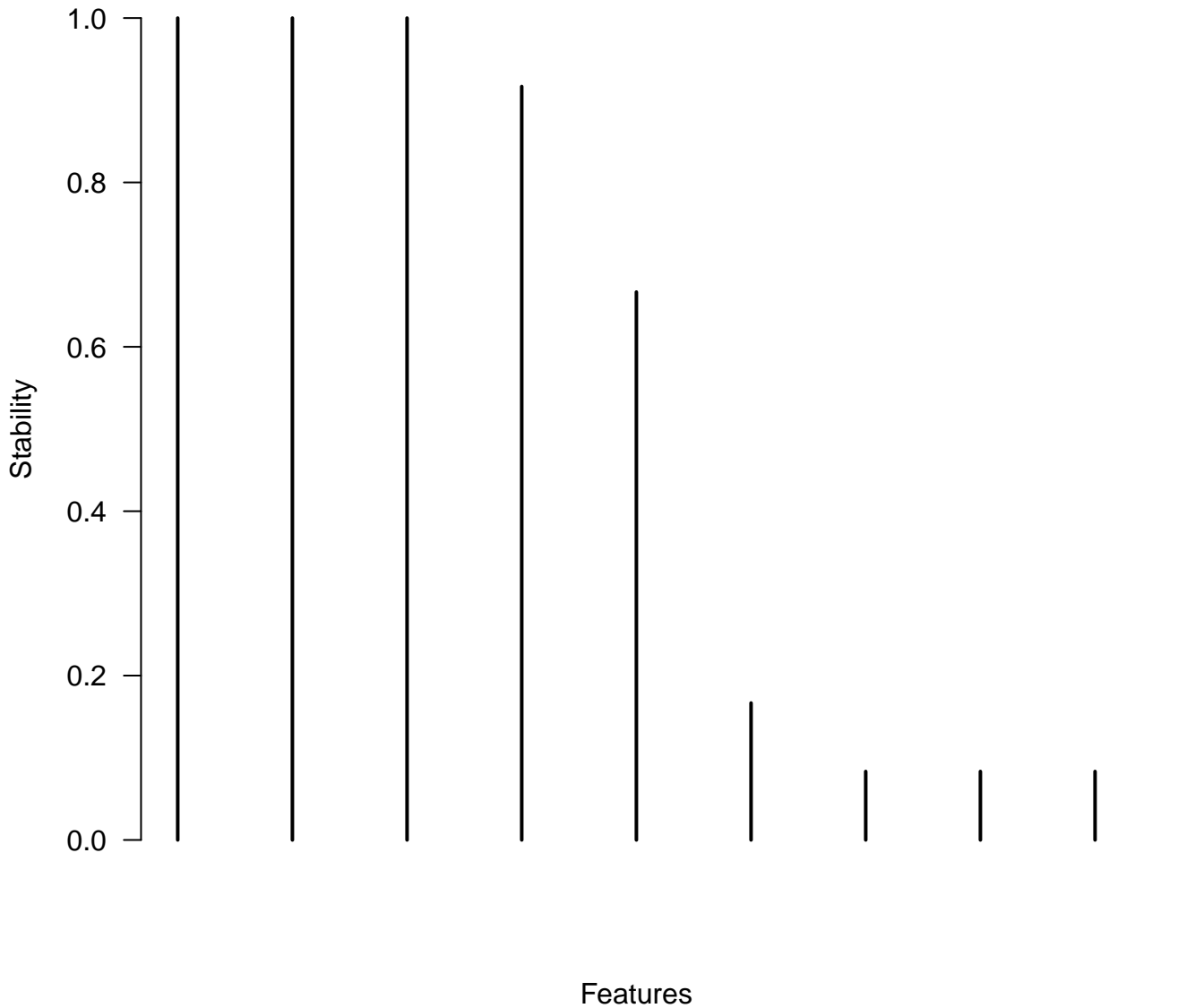


metabolome 1 sPLSDA min loac

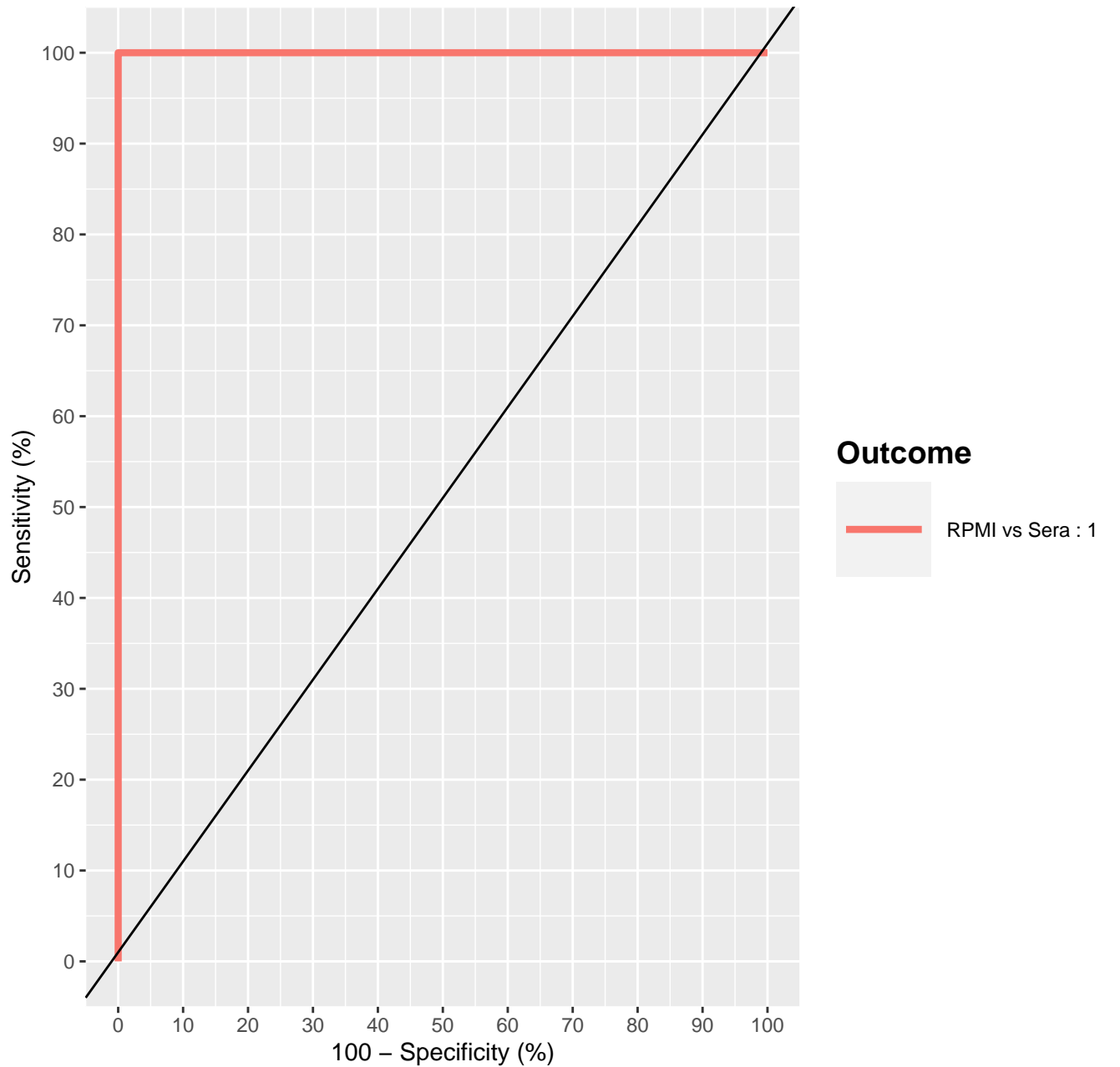




Comp 1

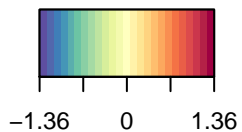


ROC Curve Using Comp(s): 1



sPLSDA

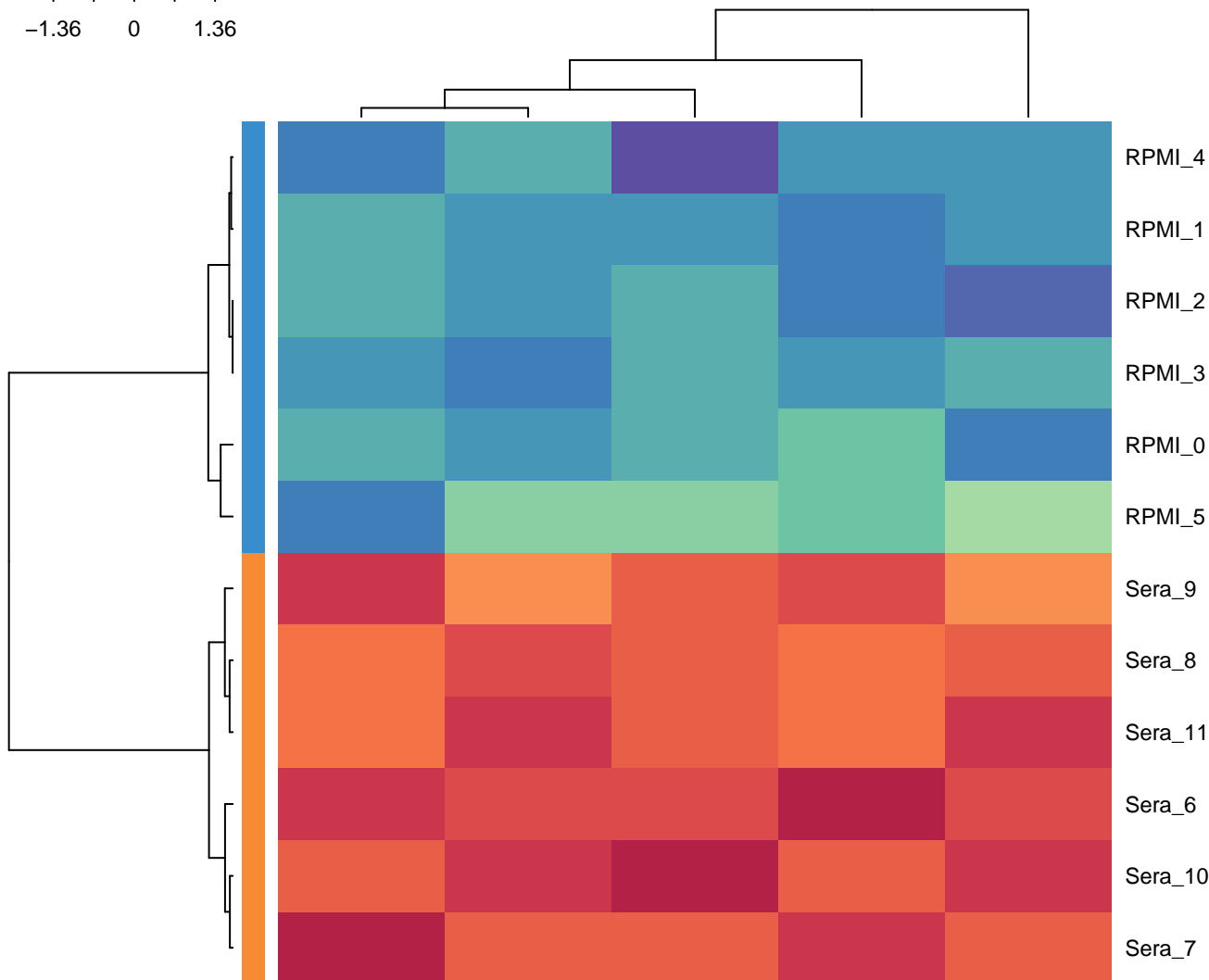
Color key



Status

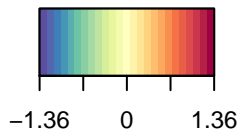
RPMI

Sera



sPLSDA Component 1

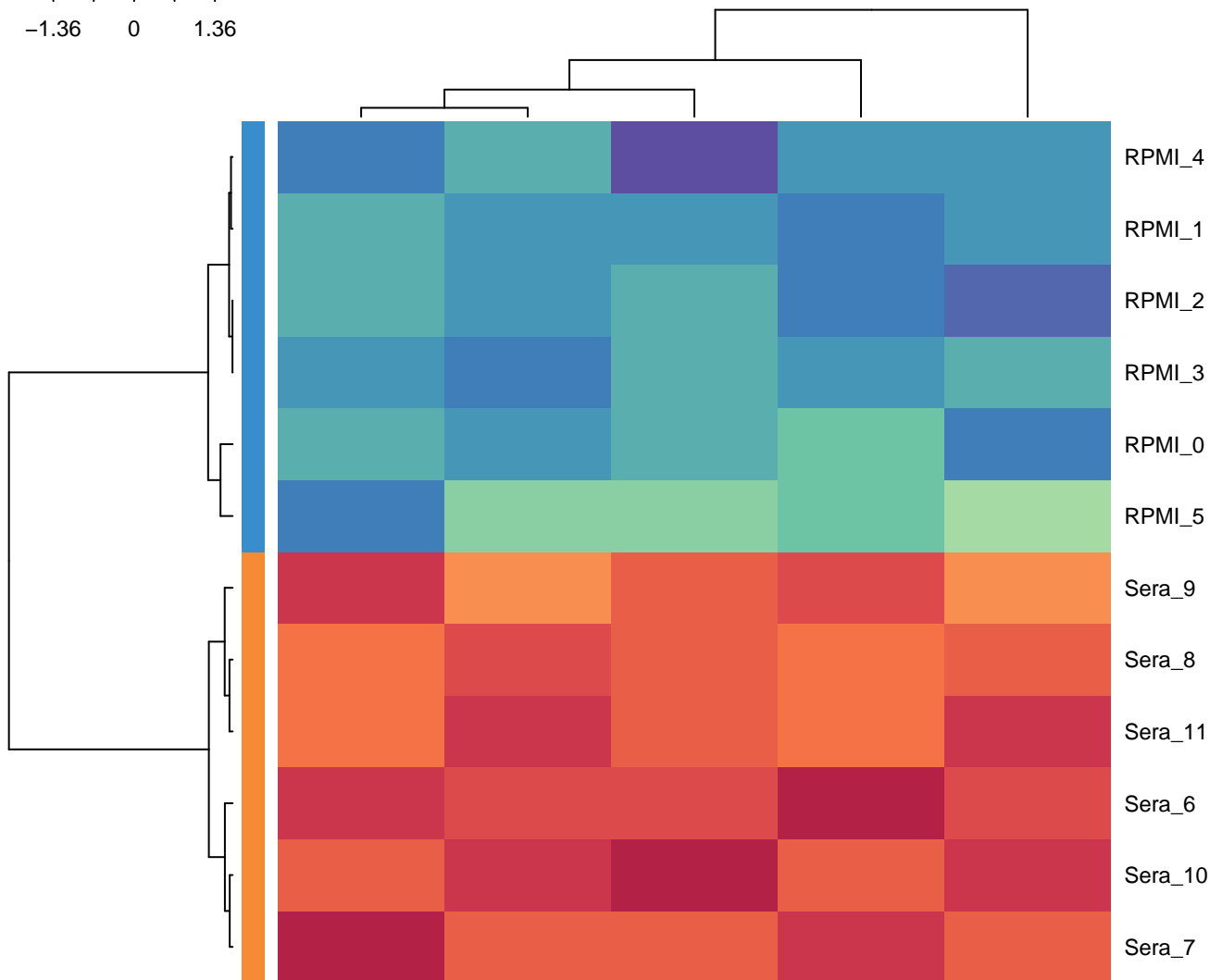
Color key



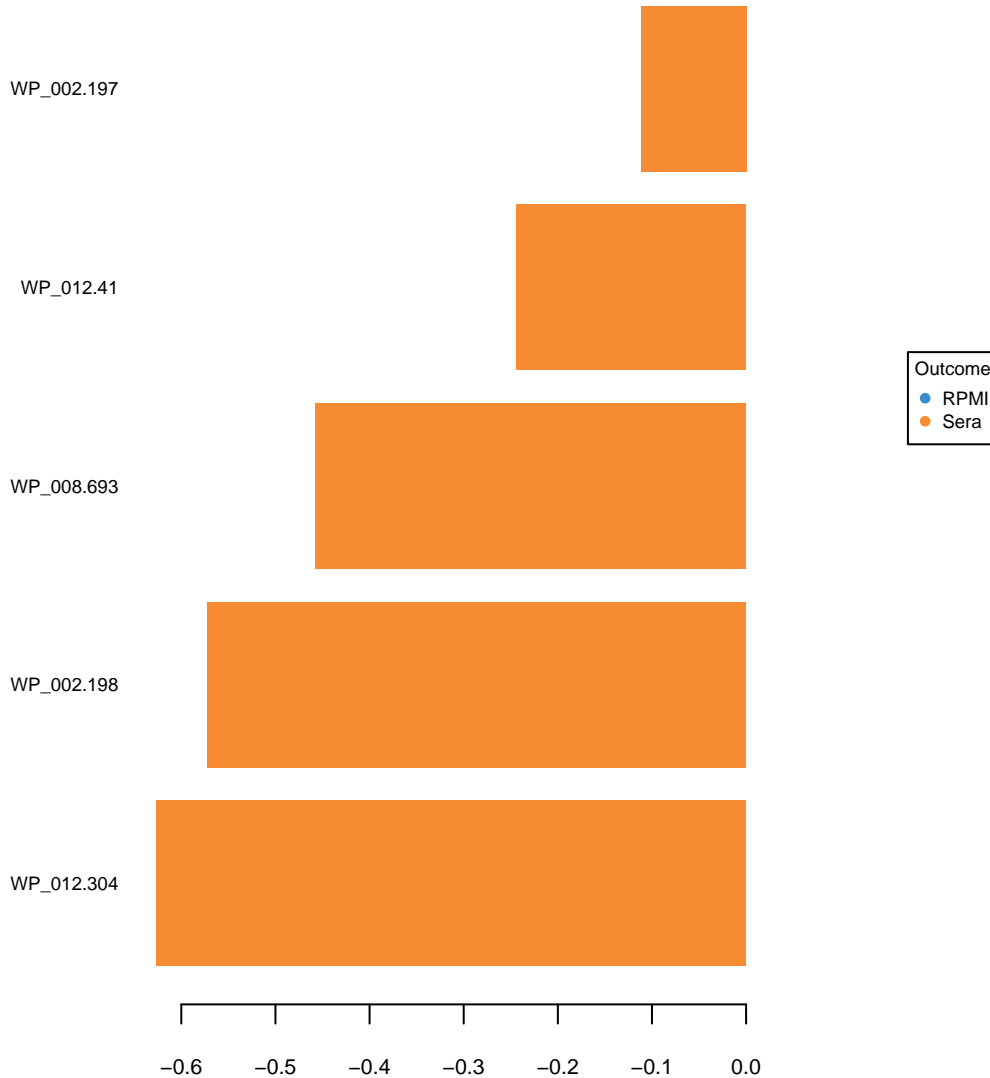
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RPMI

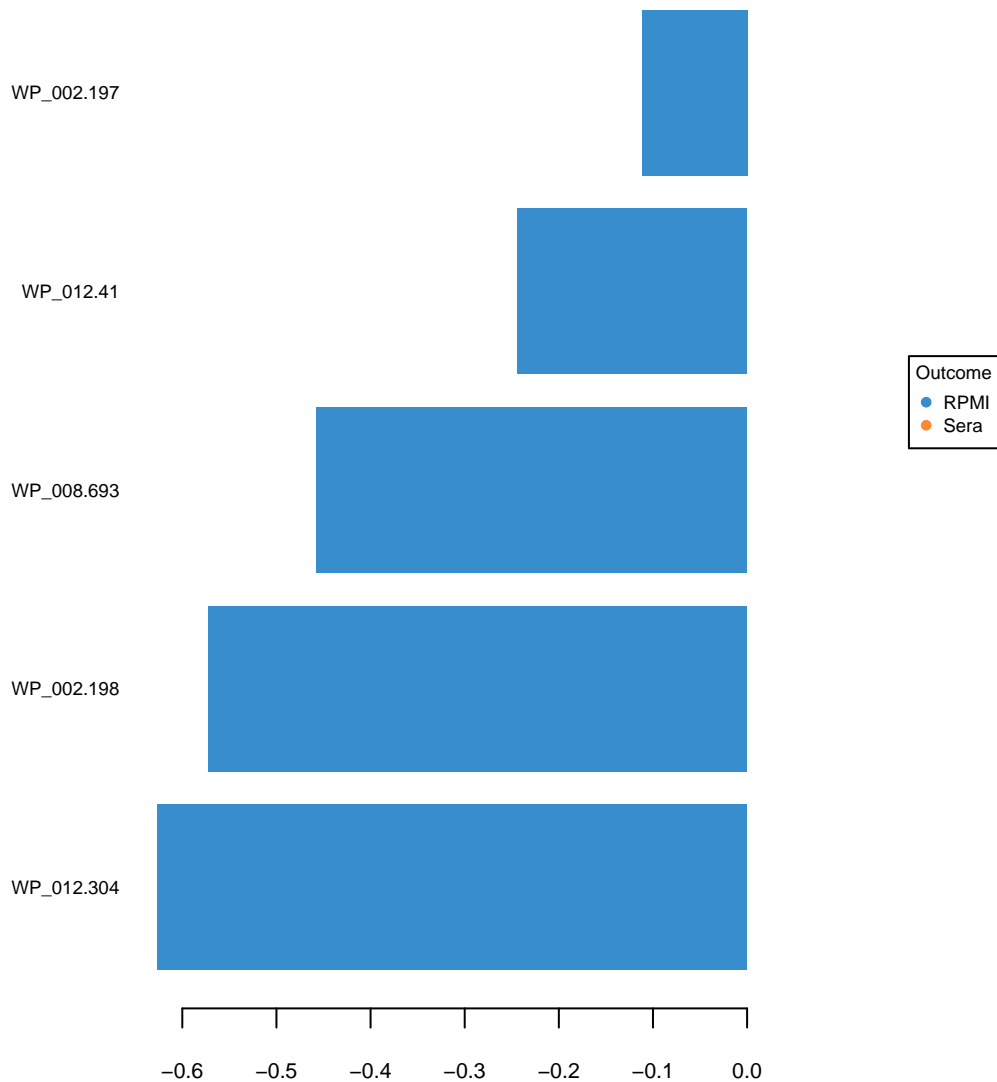
Sera

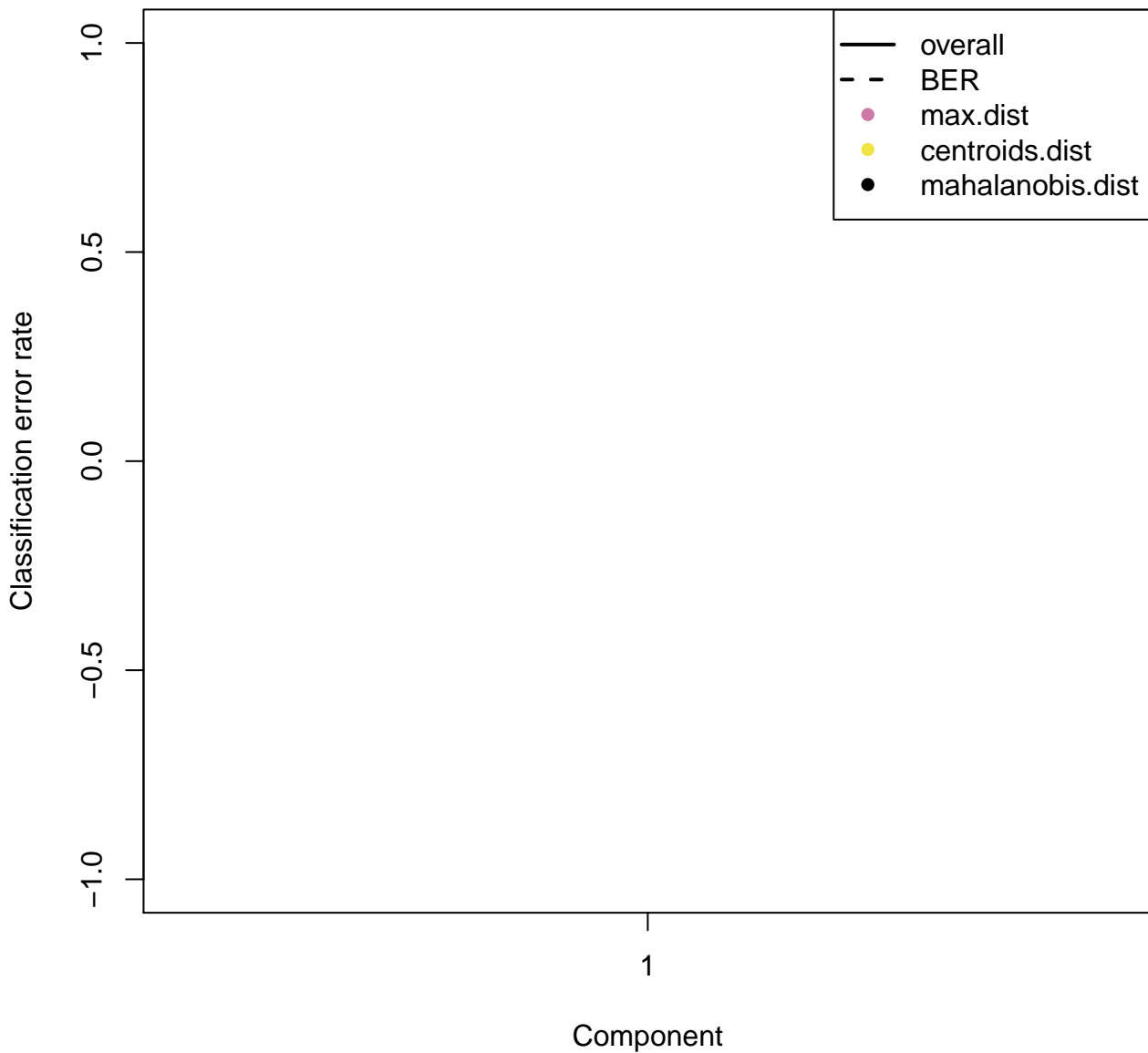


proteome 1 sPLSDA max loadings

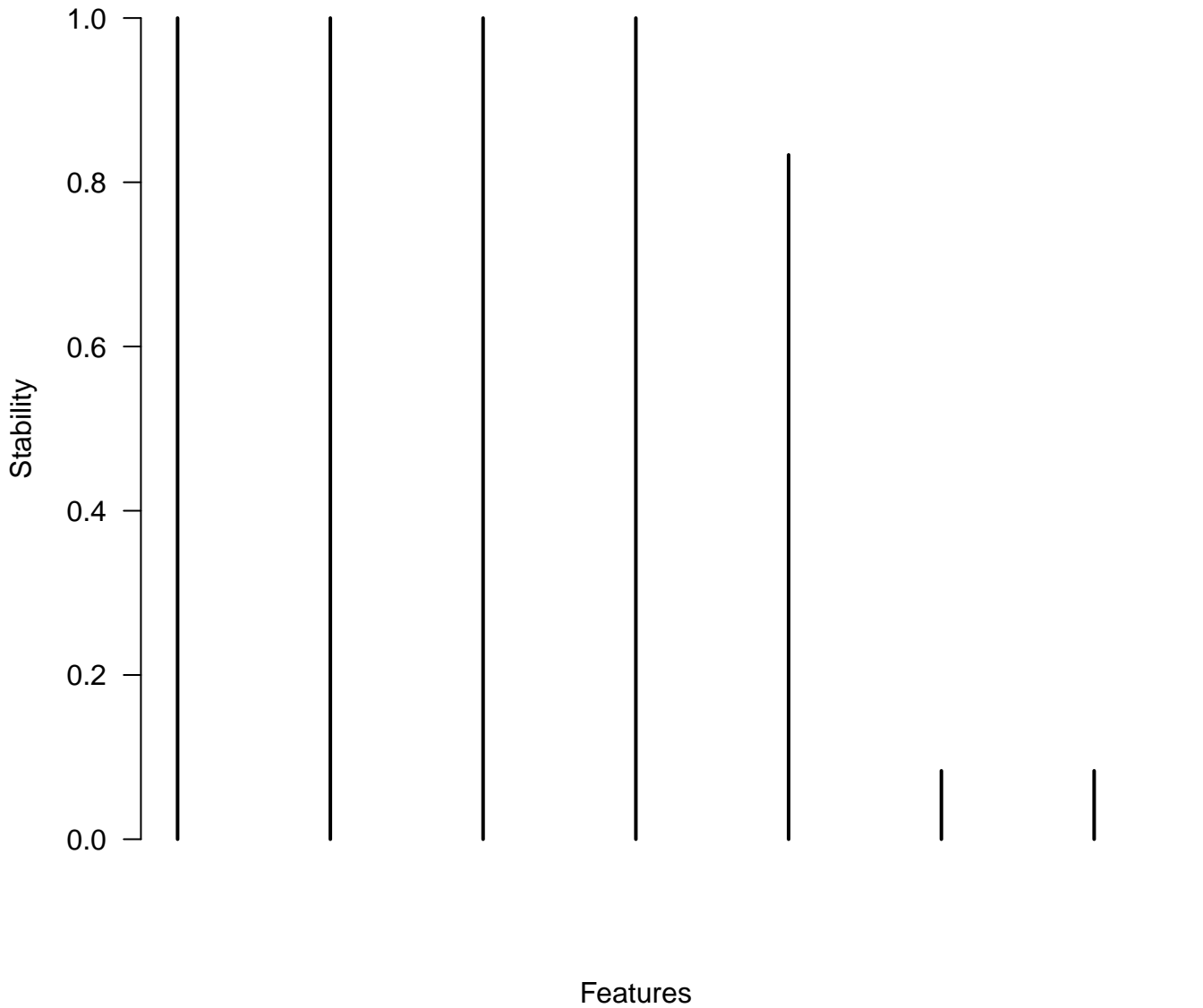


proteome 1 sPLSDA min loadings

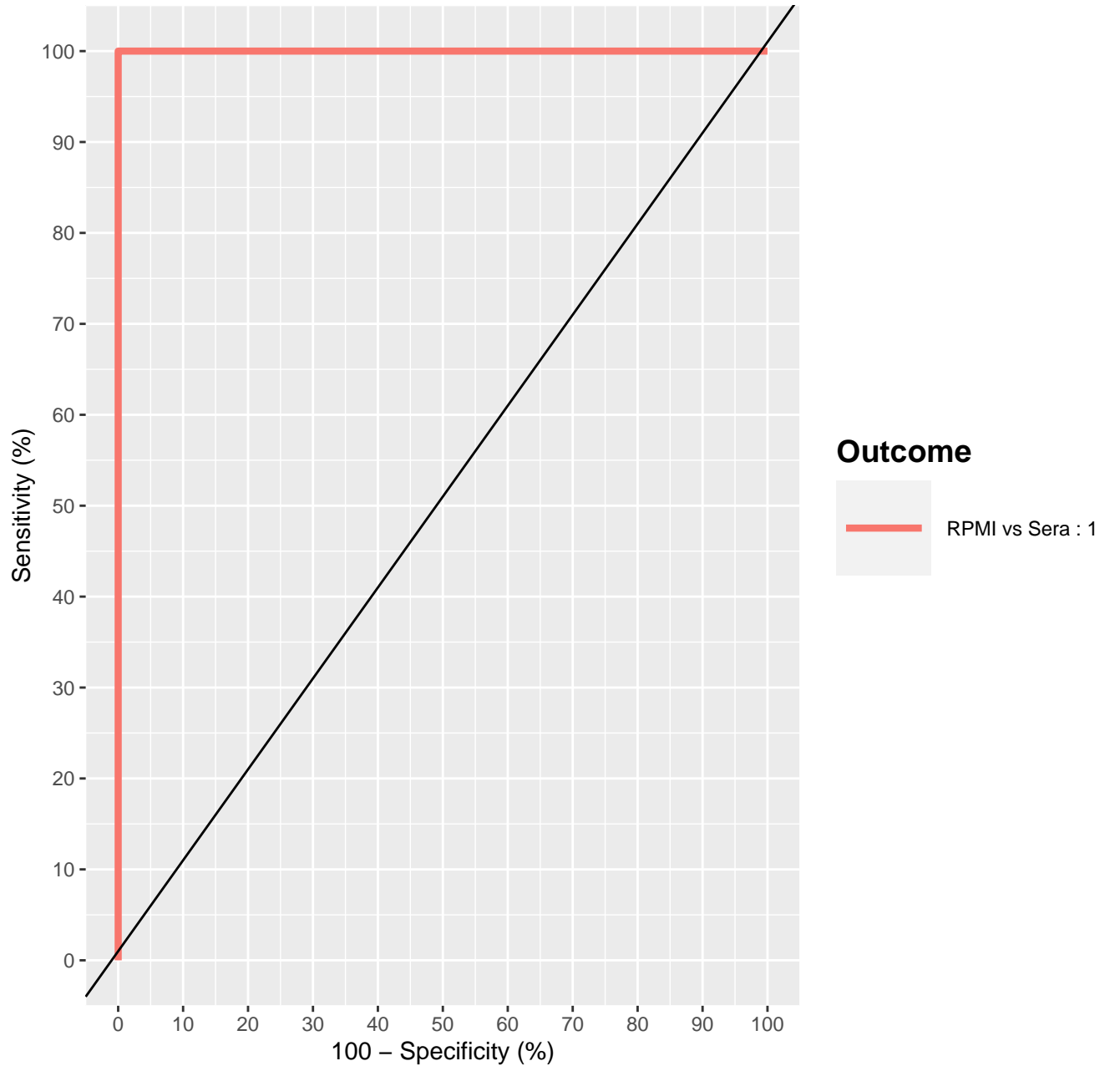




Comp 1

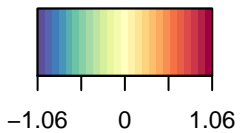


ROC Curve Using Comp(s): 1



sPLSDA

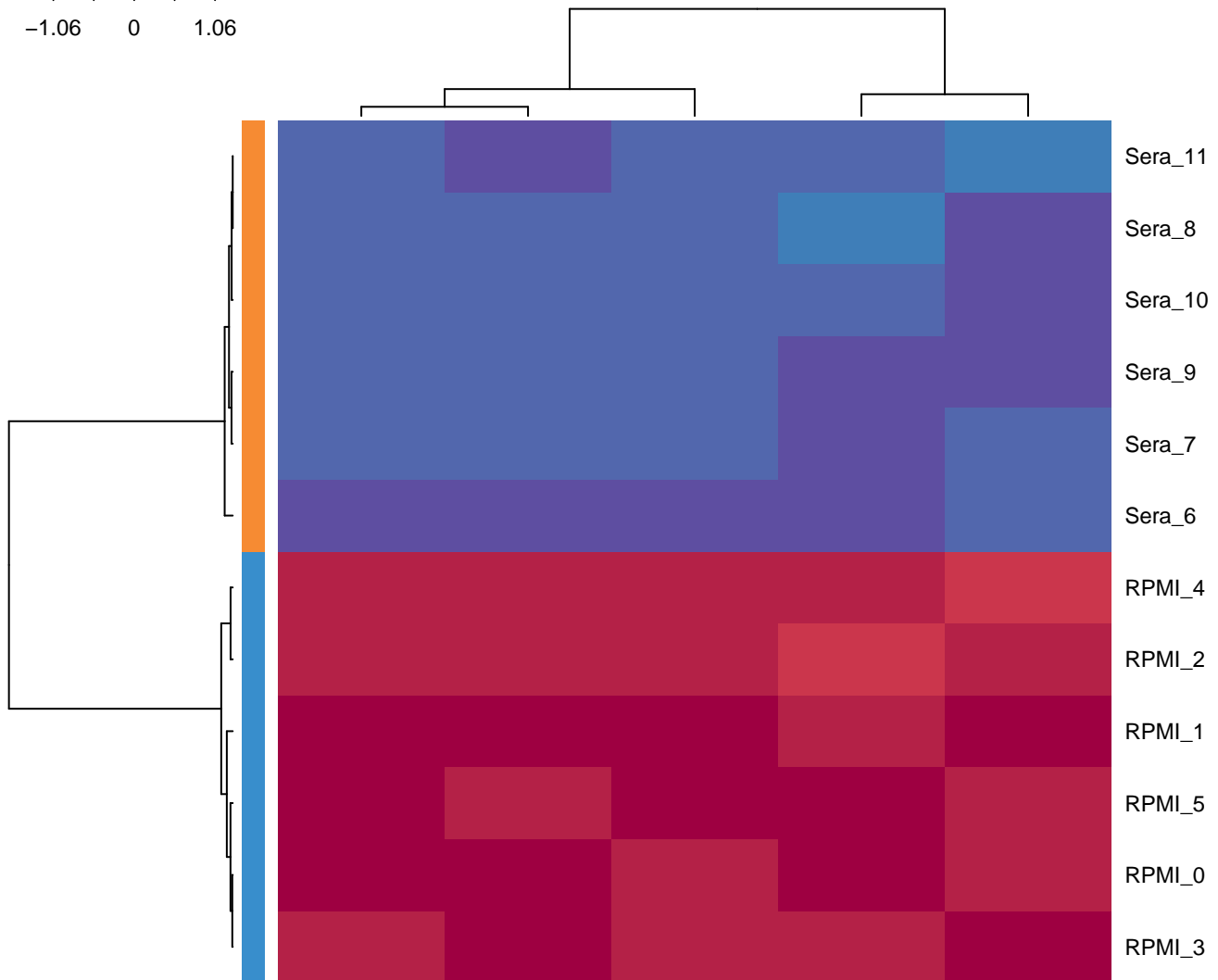
Color key



Status

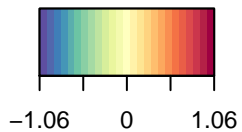
RPMI

Sera



sPLSDA Component 1

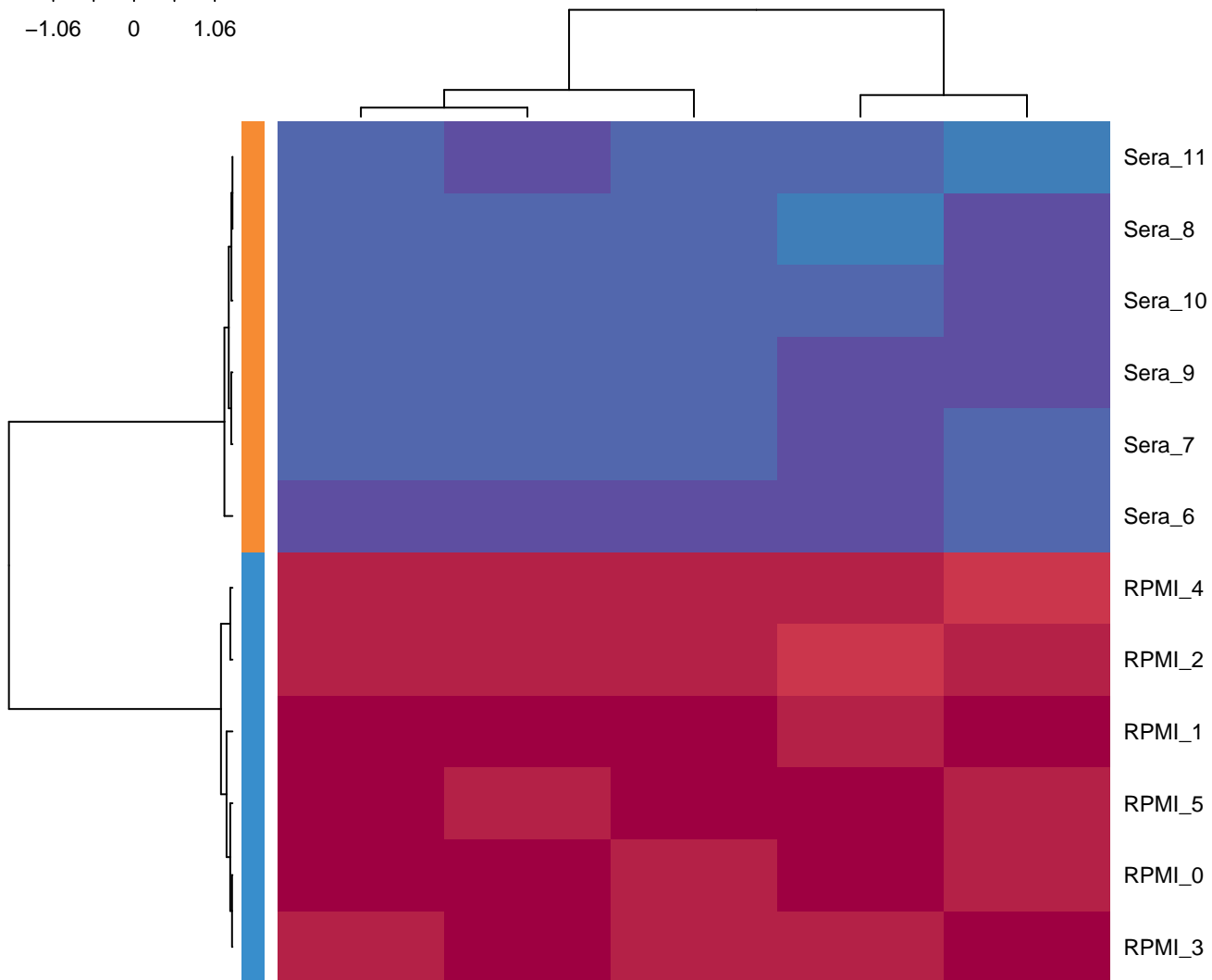
Color key



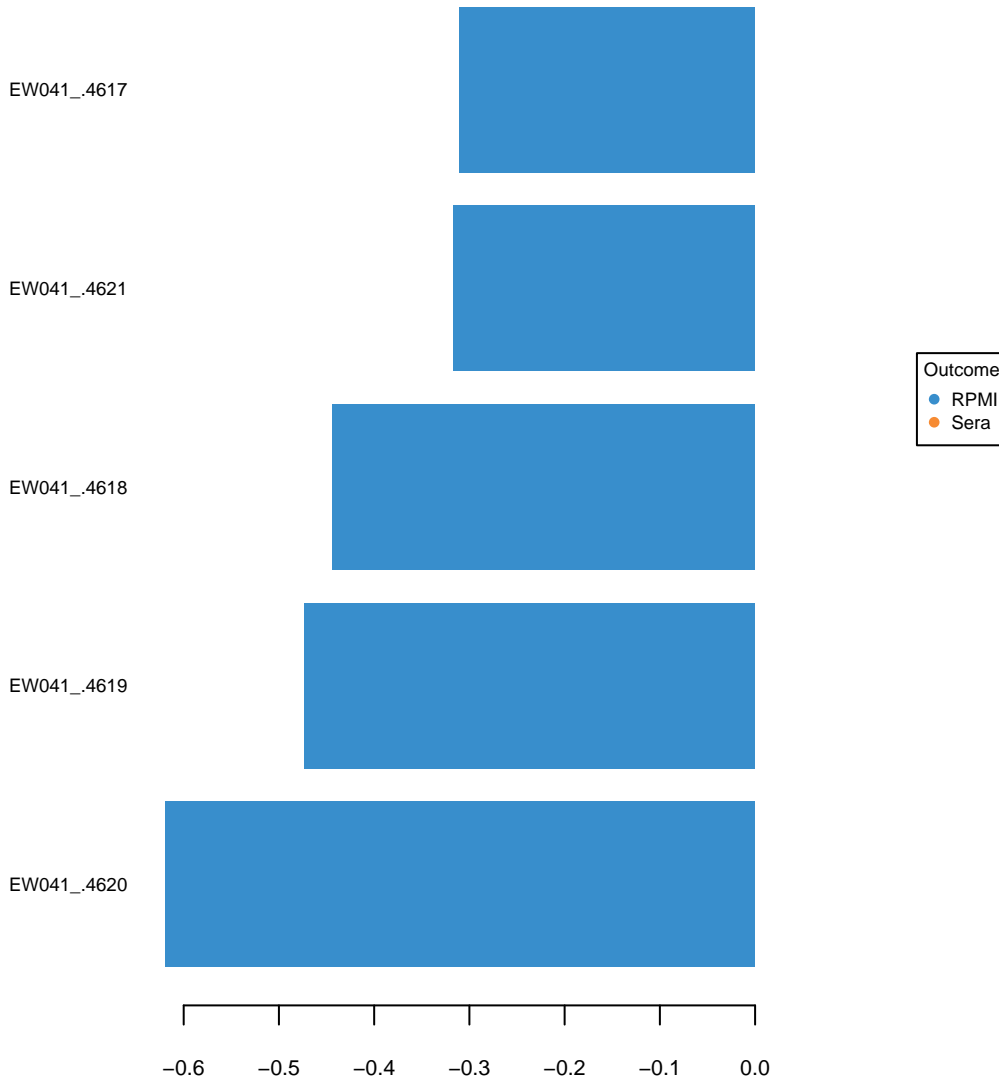
Status

RPMI

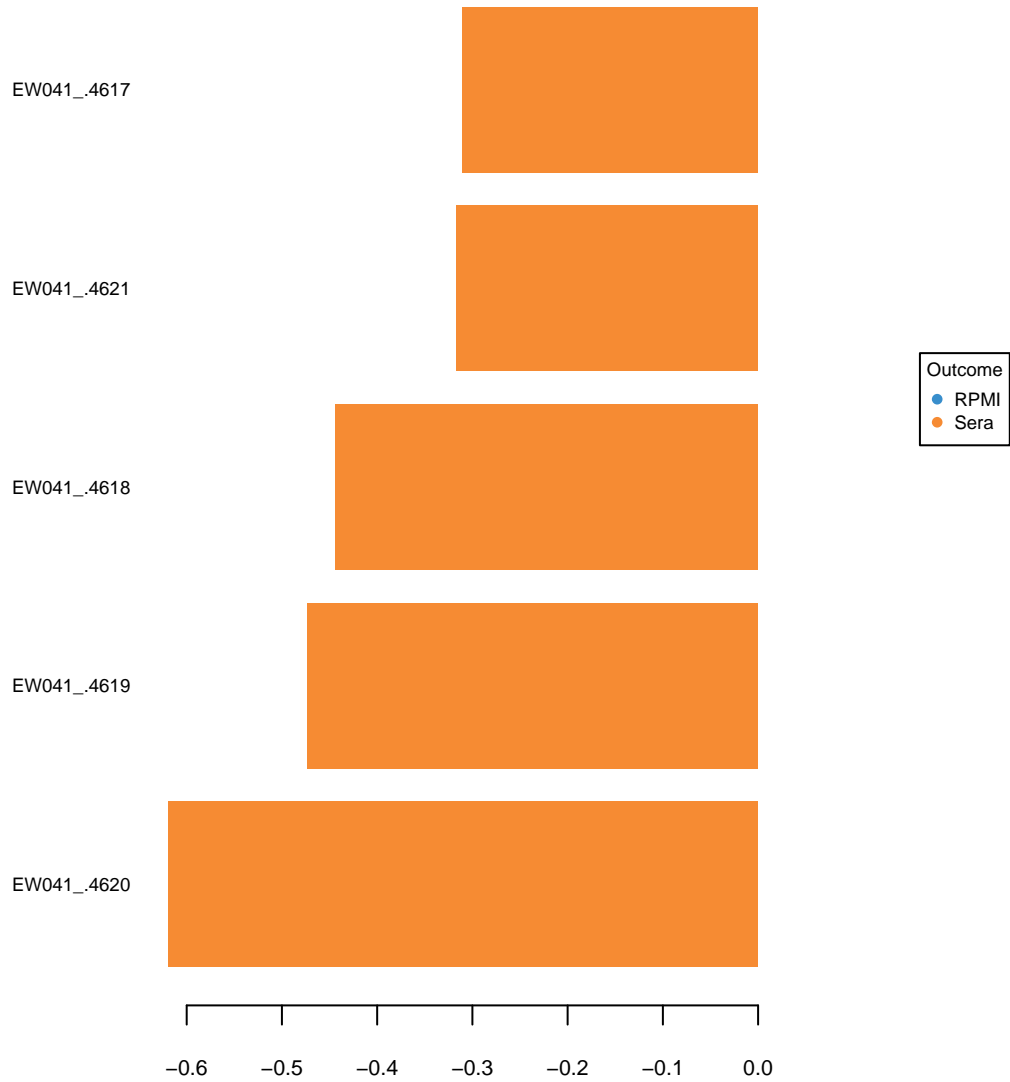
Sera

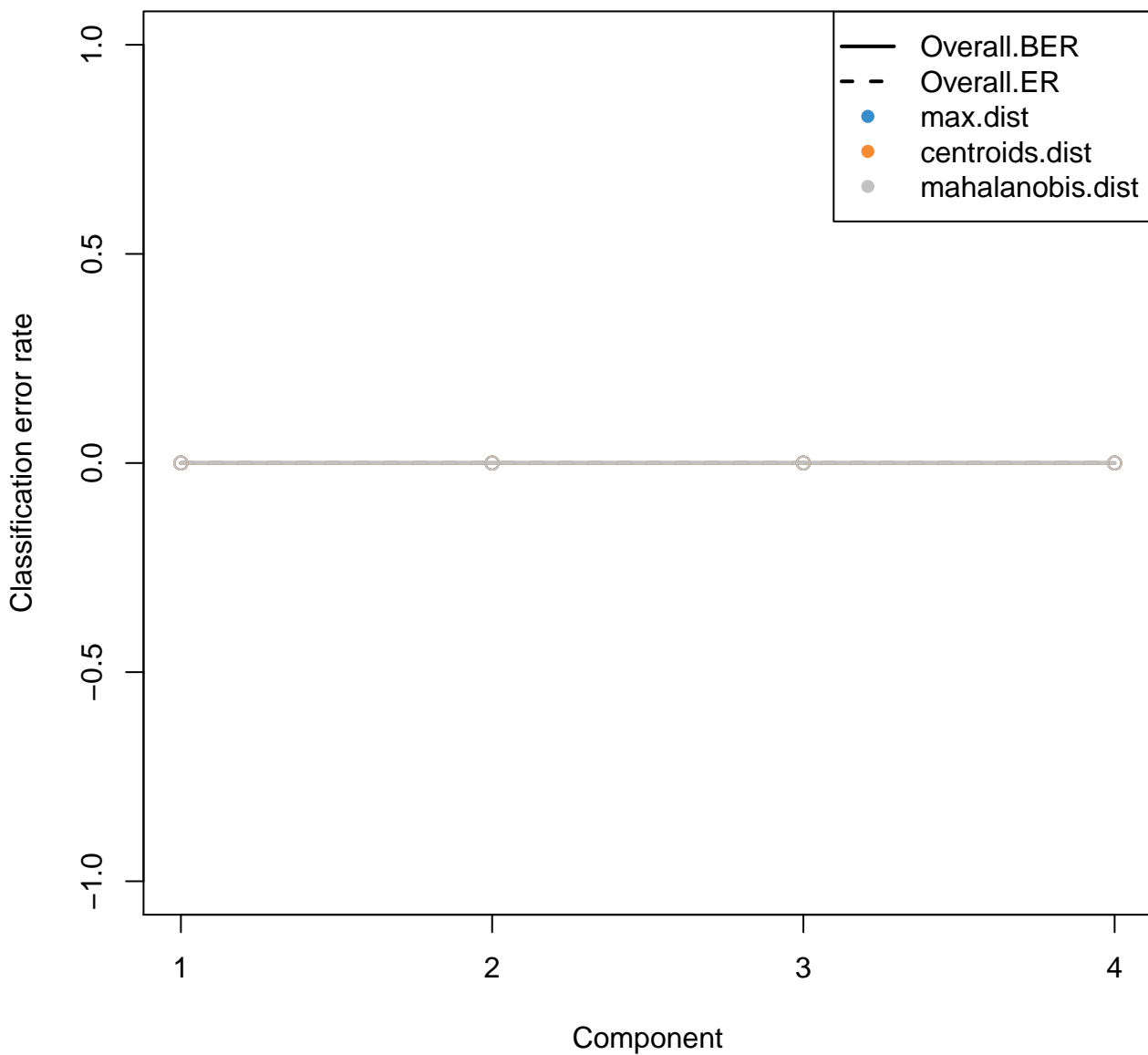


transcriptome 1 sPLSDA max loa

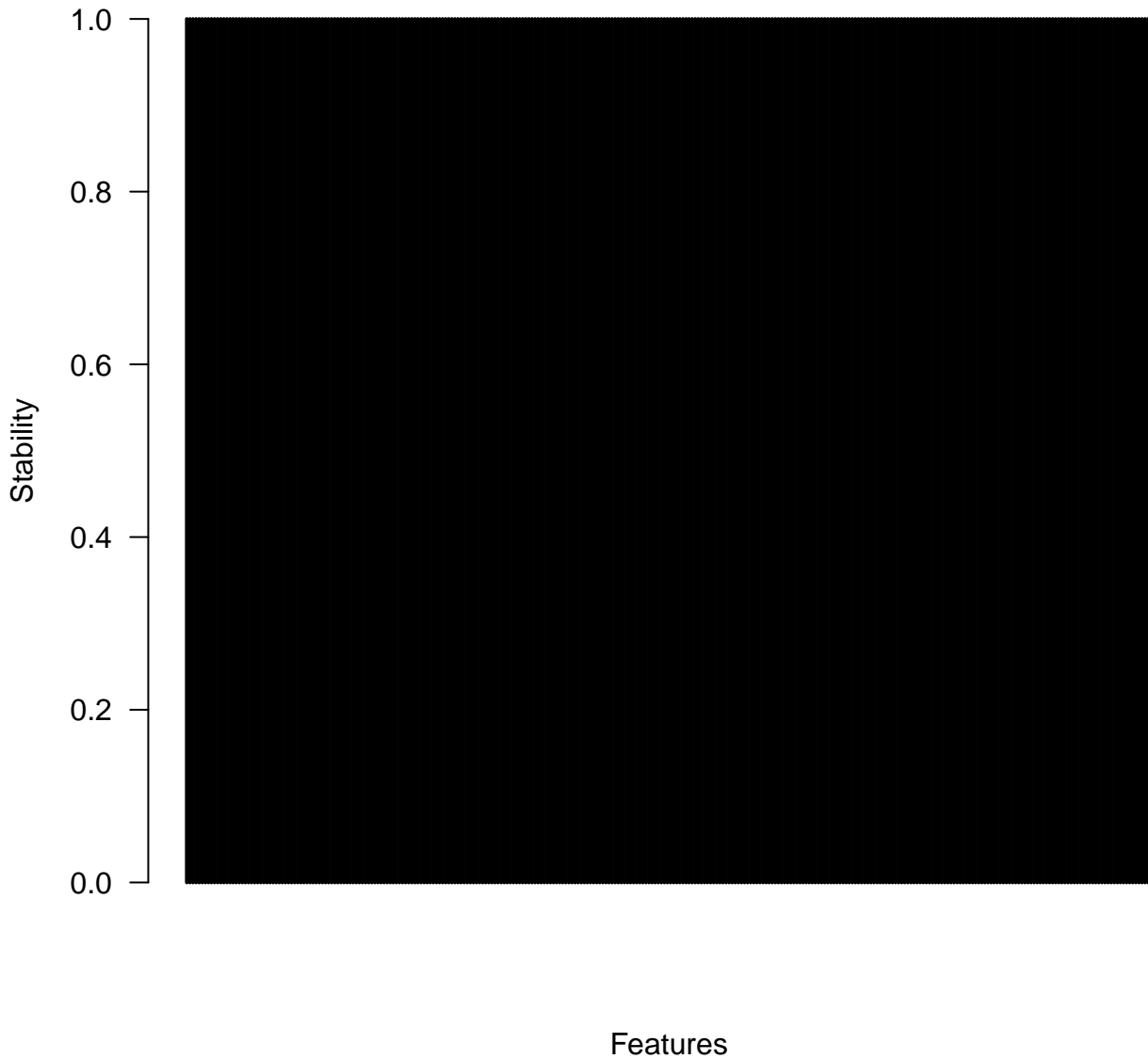


transcriptome 1 sPLSDA min loa

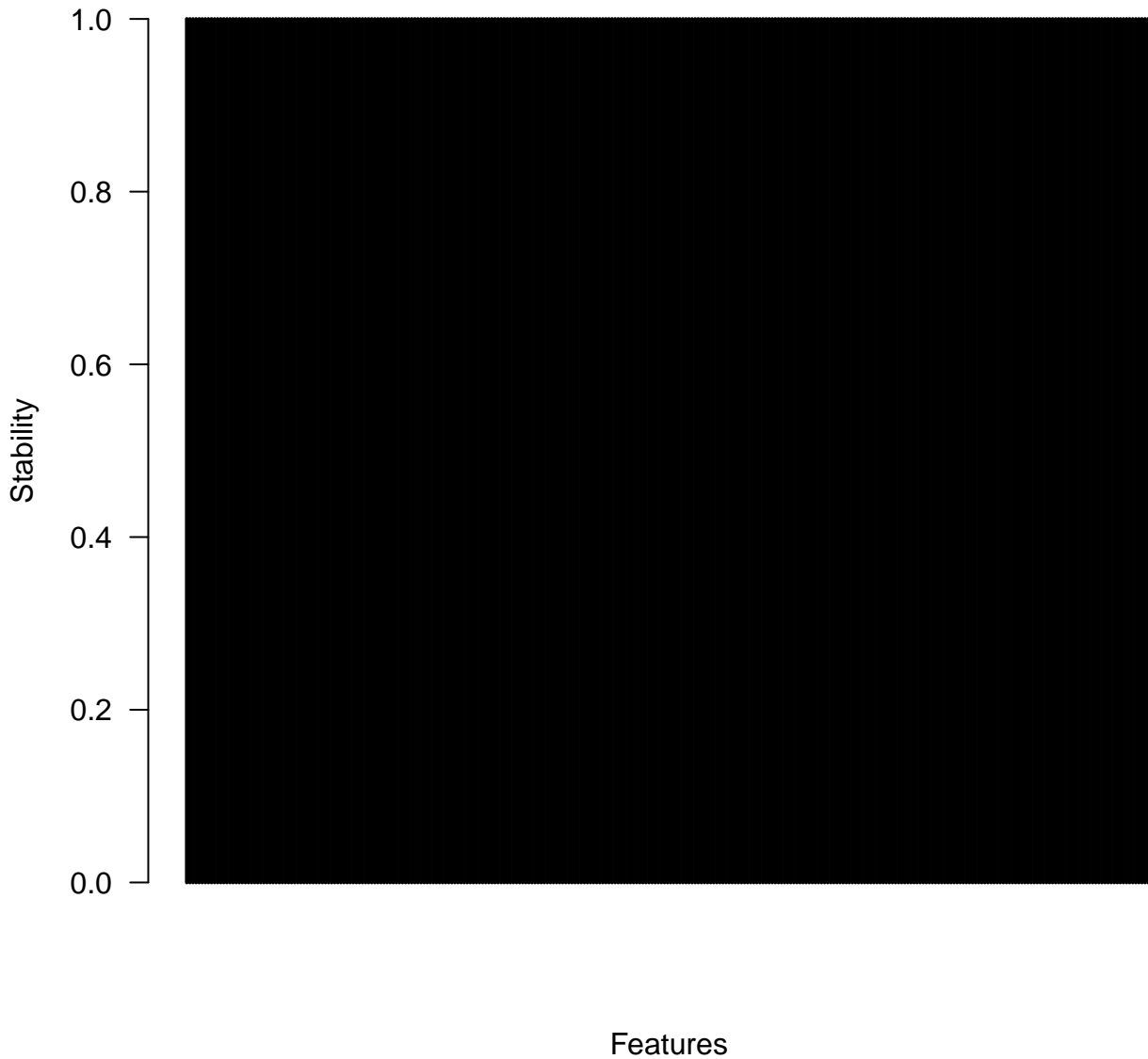




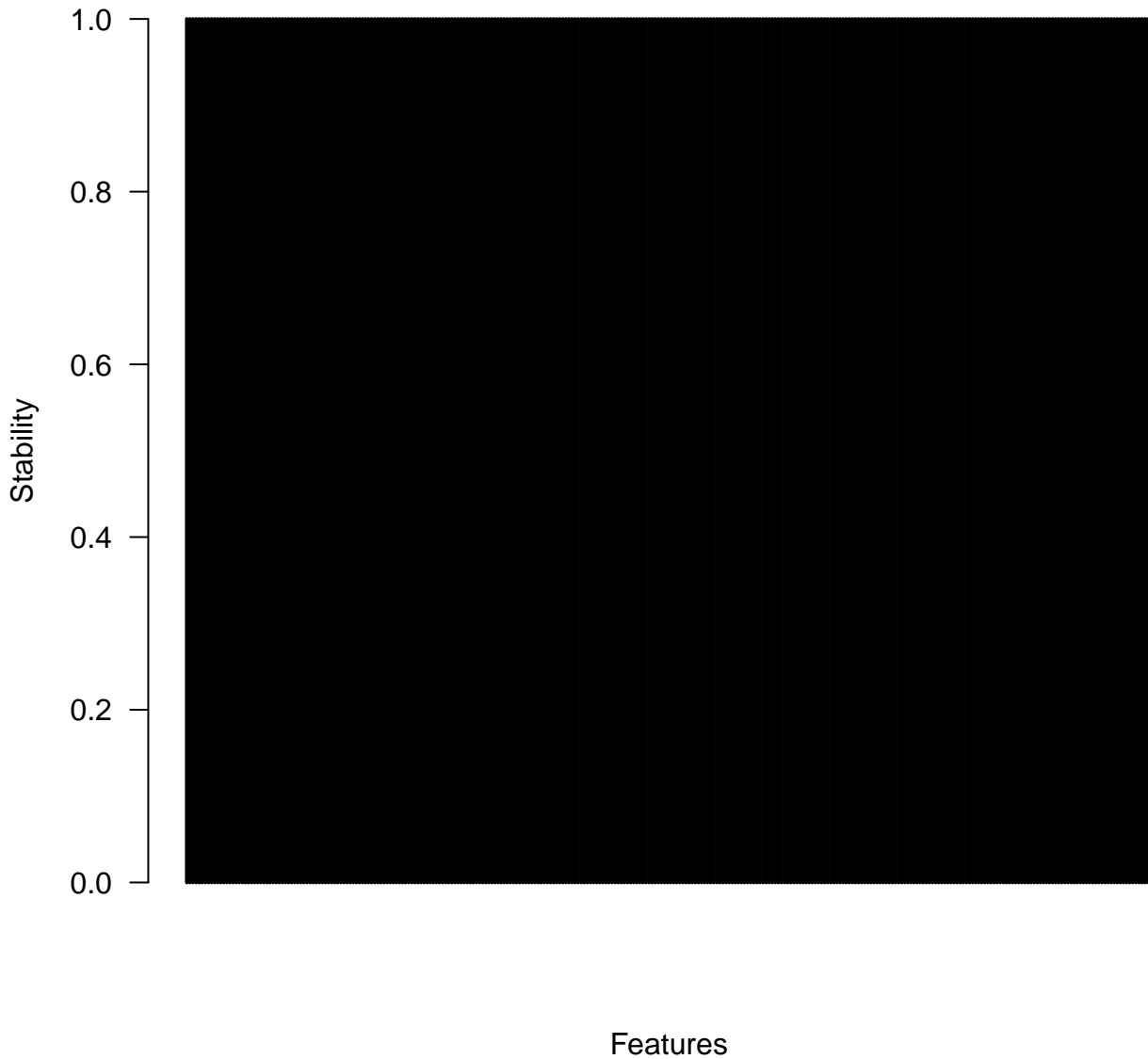
metabolome Comp 1



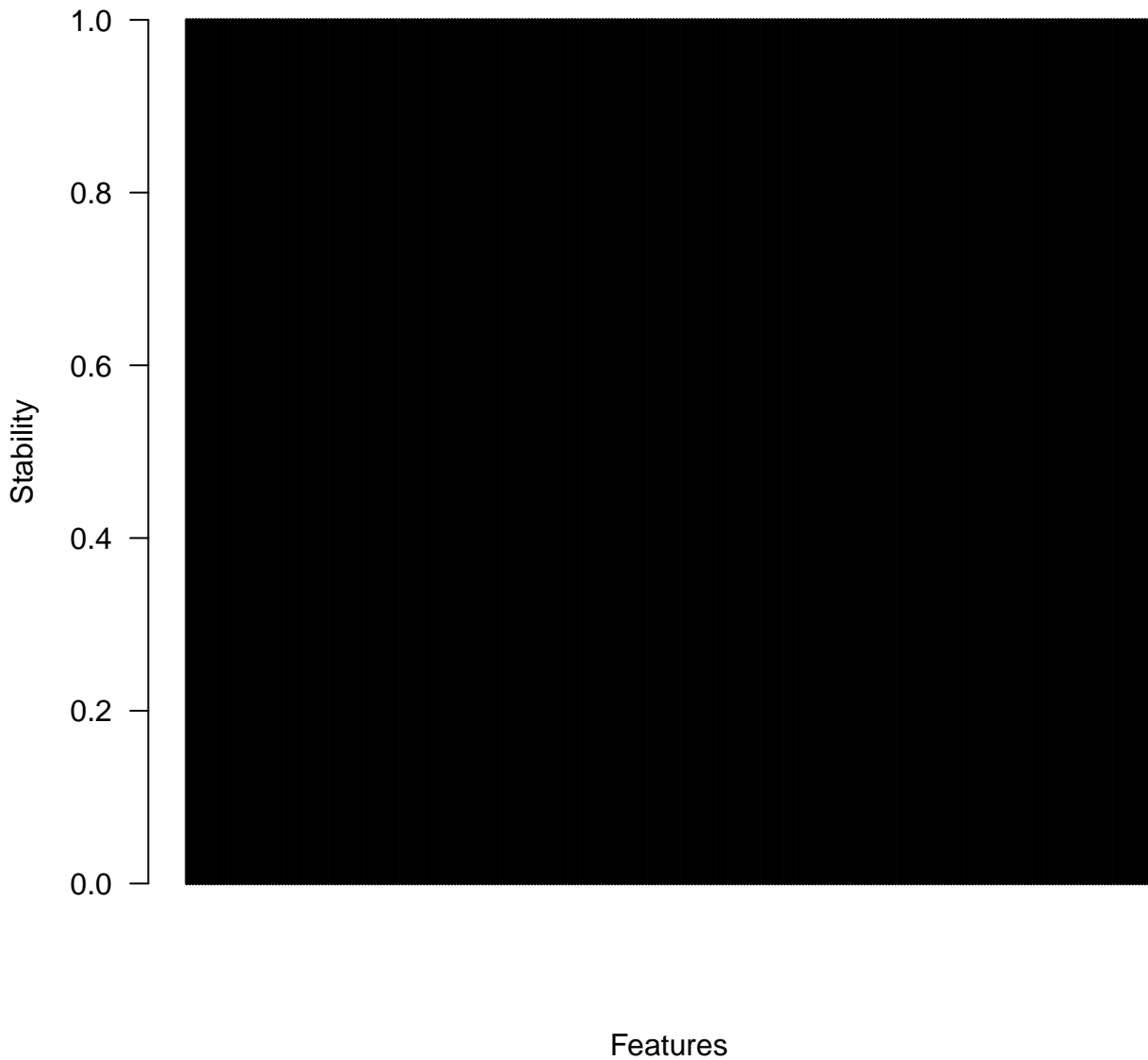
metabolome Comp 2



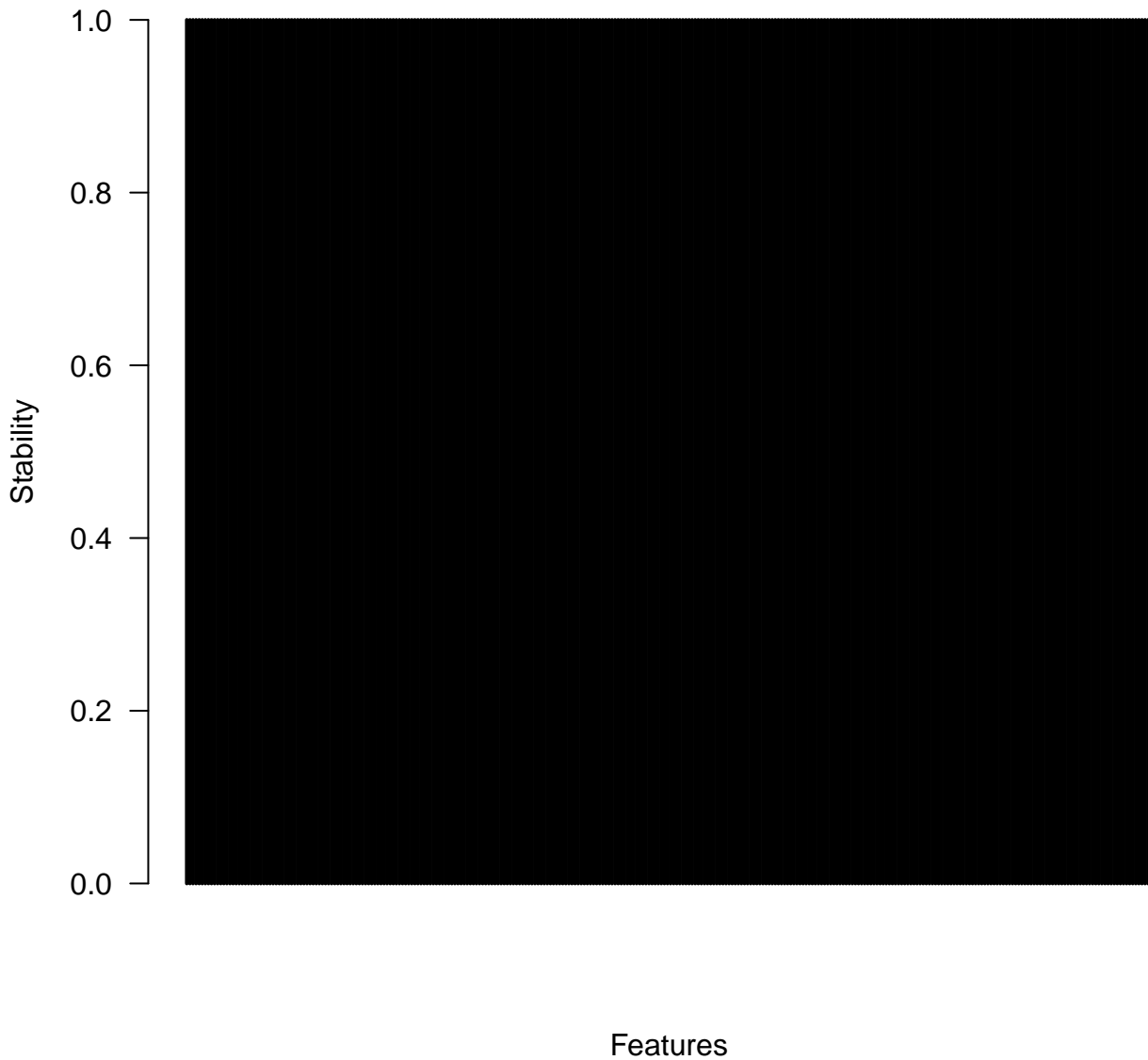
metabolome Comp 3



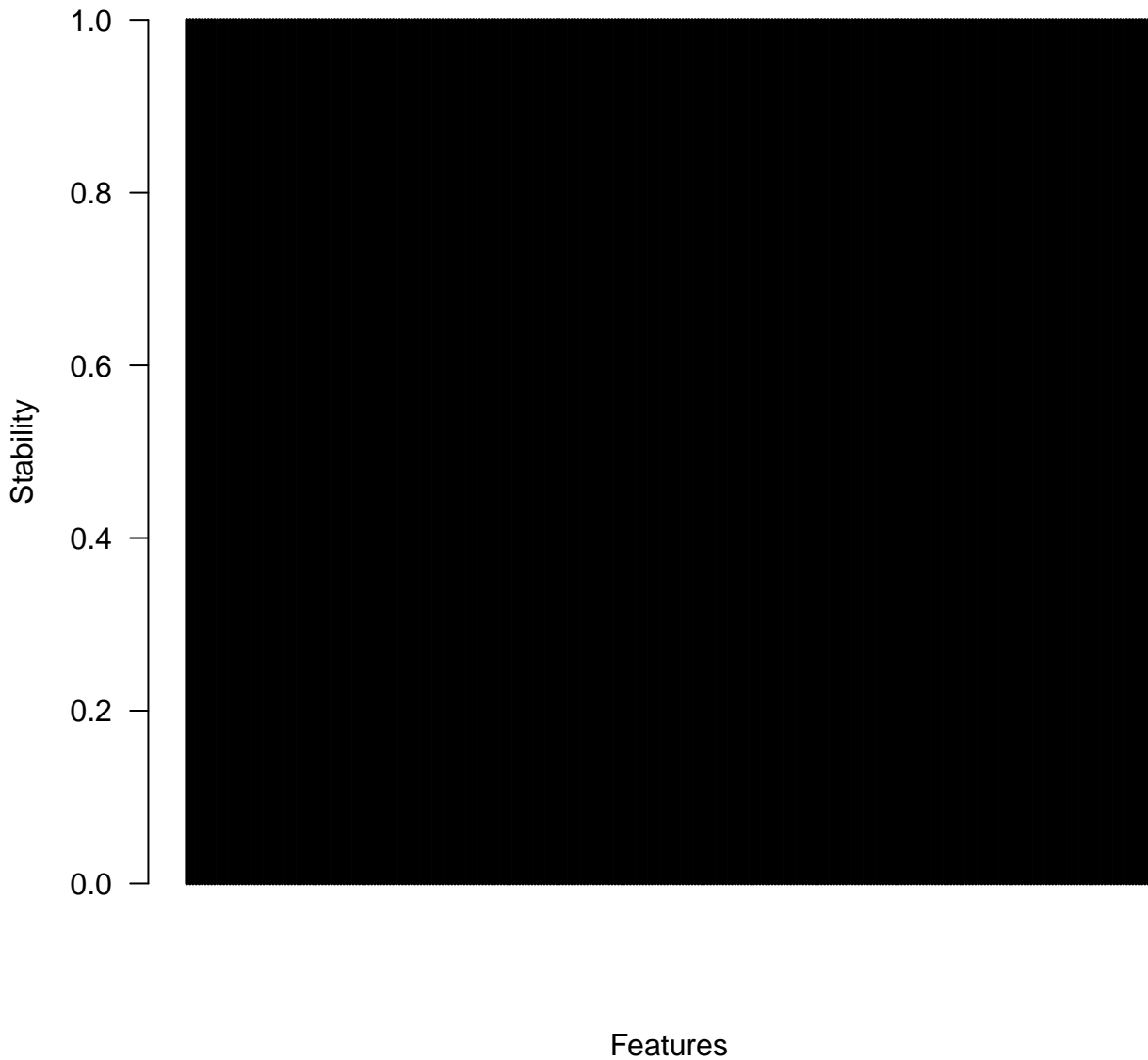
proteome Comp 1



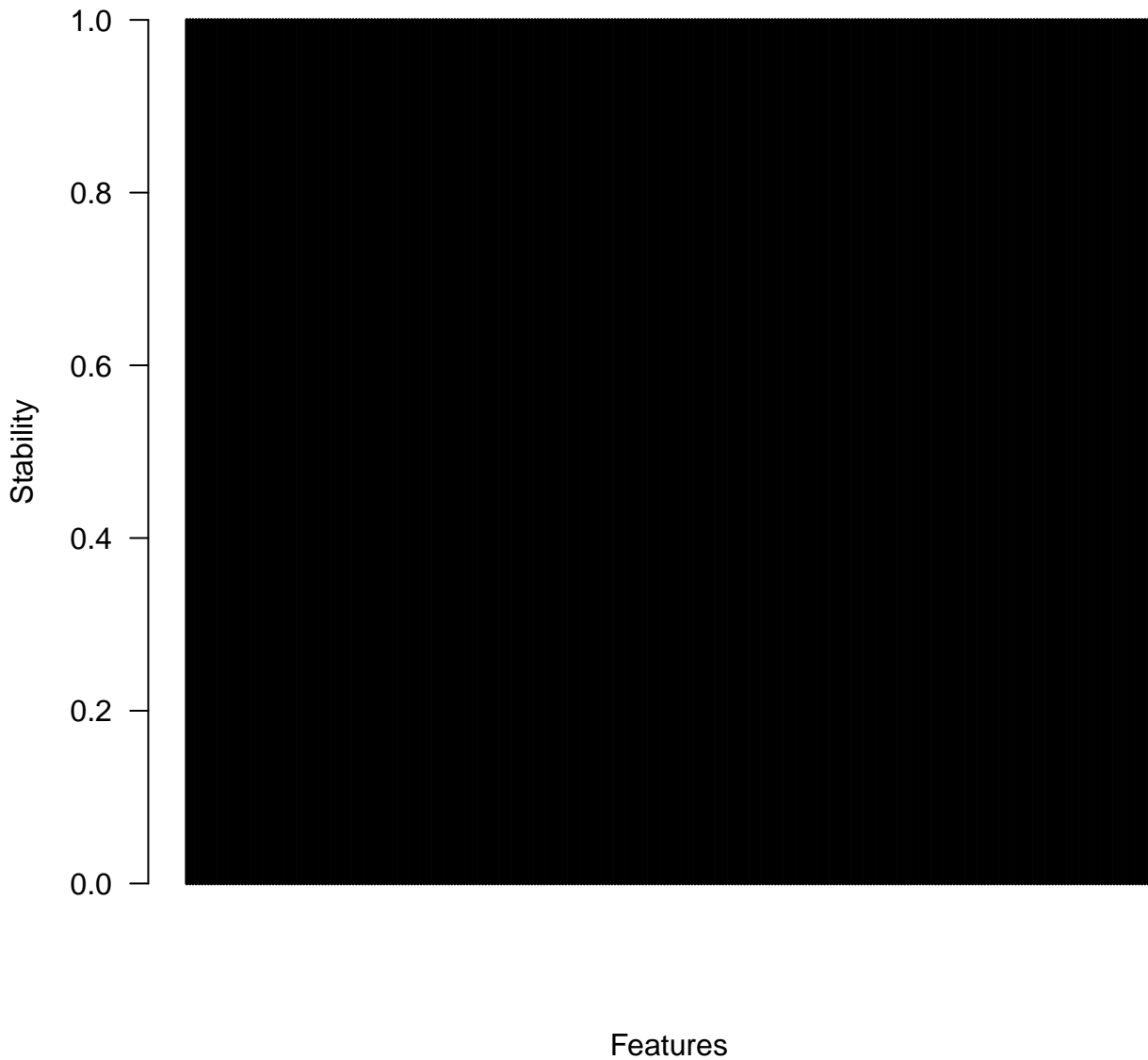
proteome Comp 2



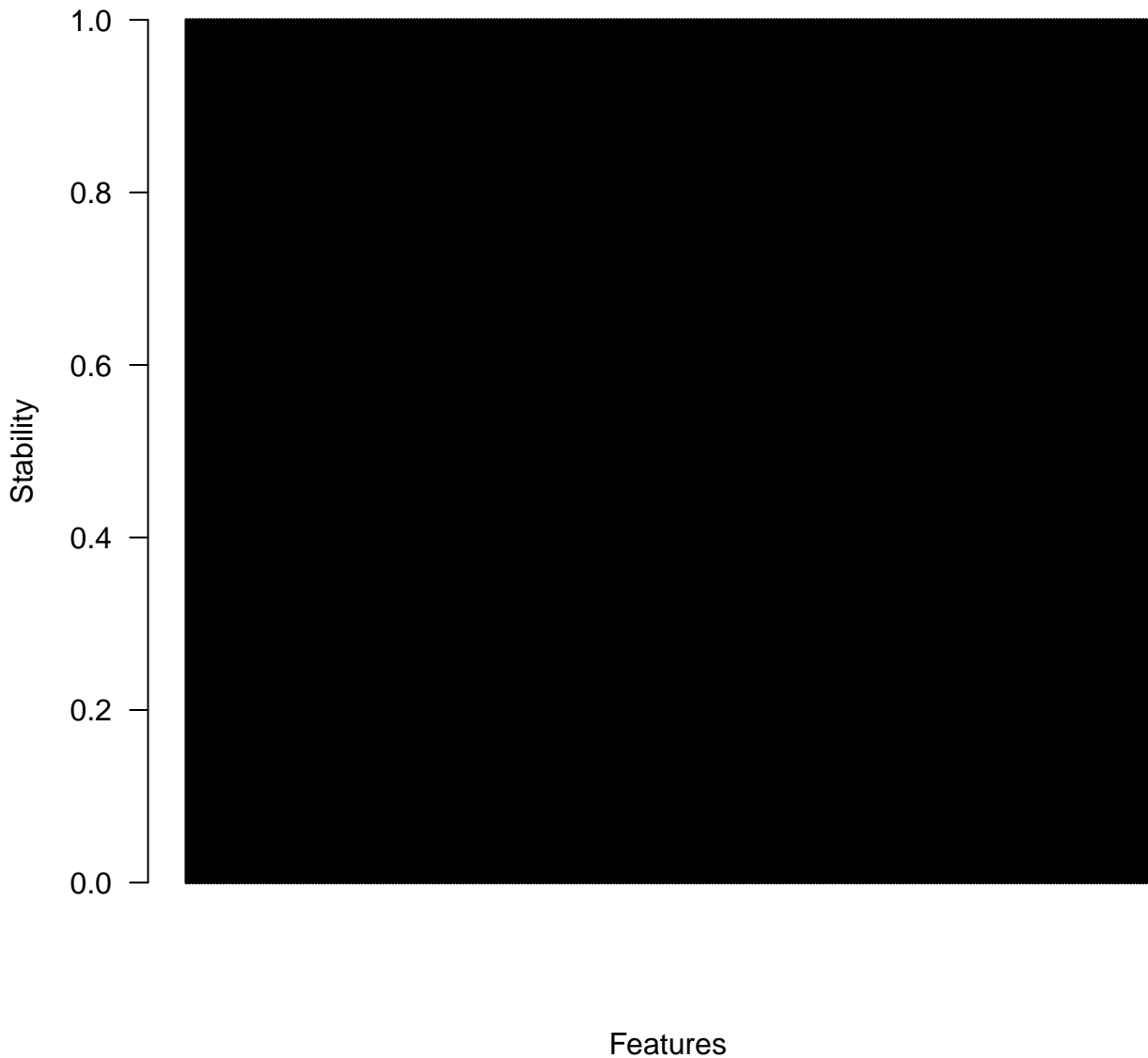
proteome Comp 3



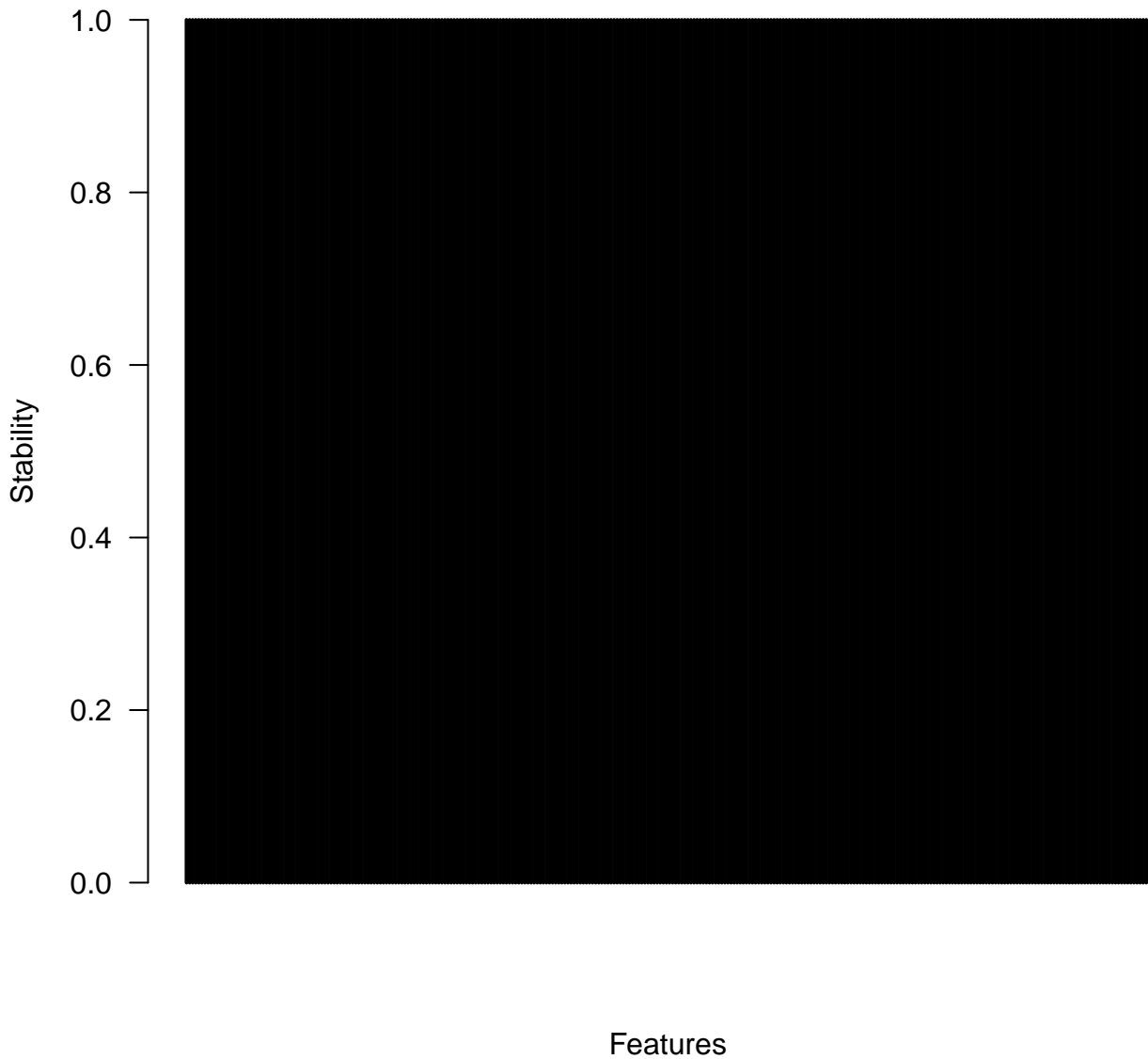
transcriptome Comp 1



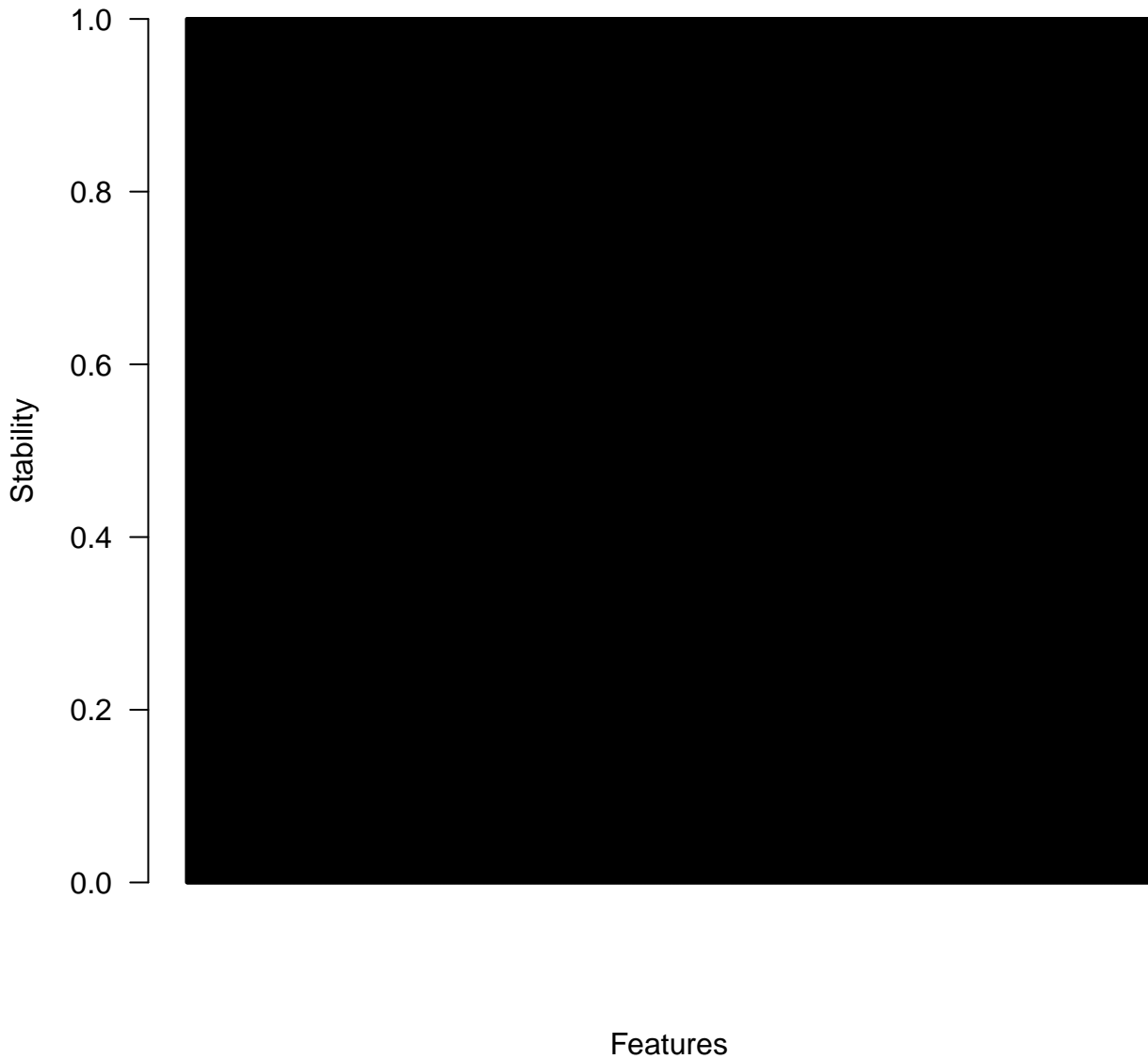
transcriptome Comp 2



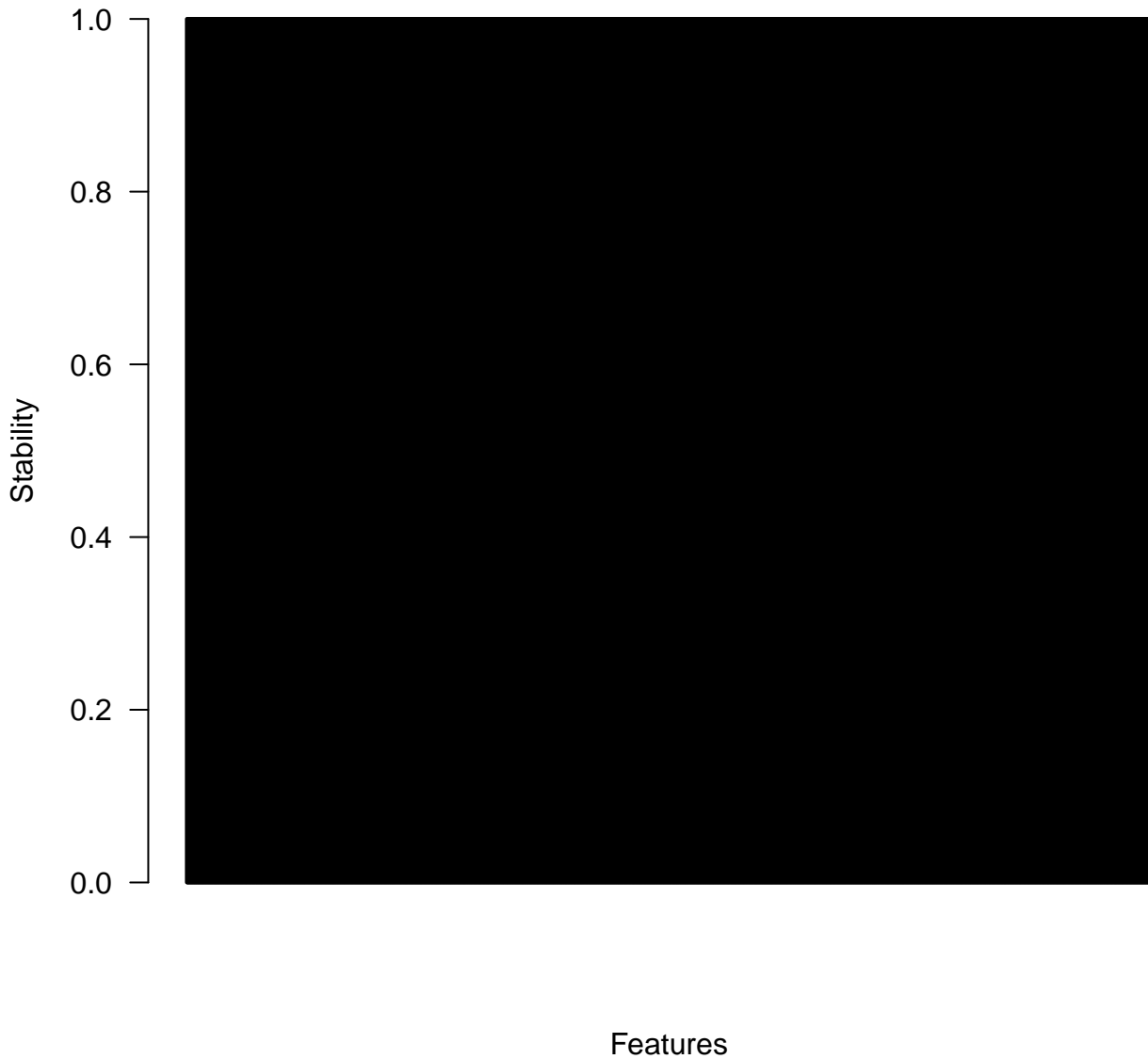
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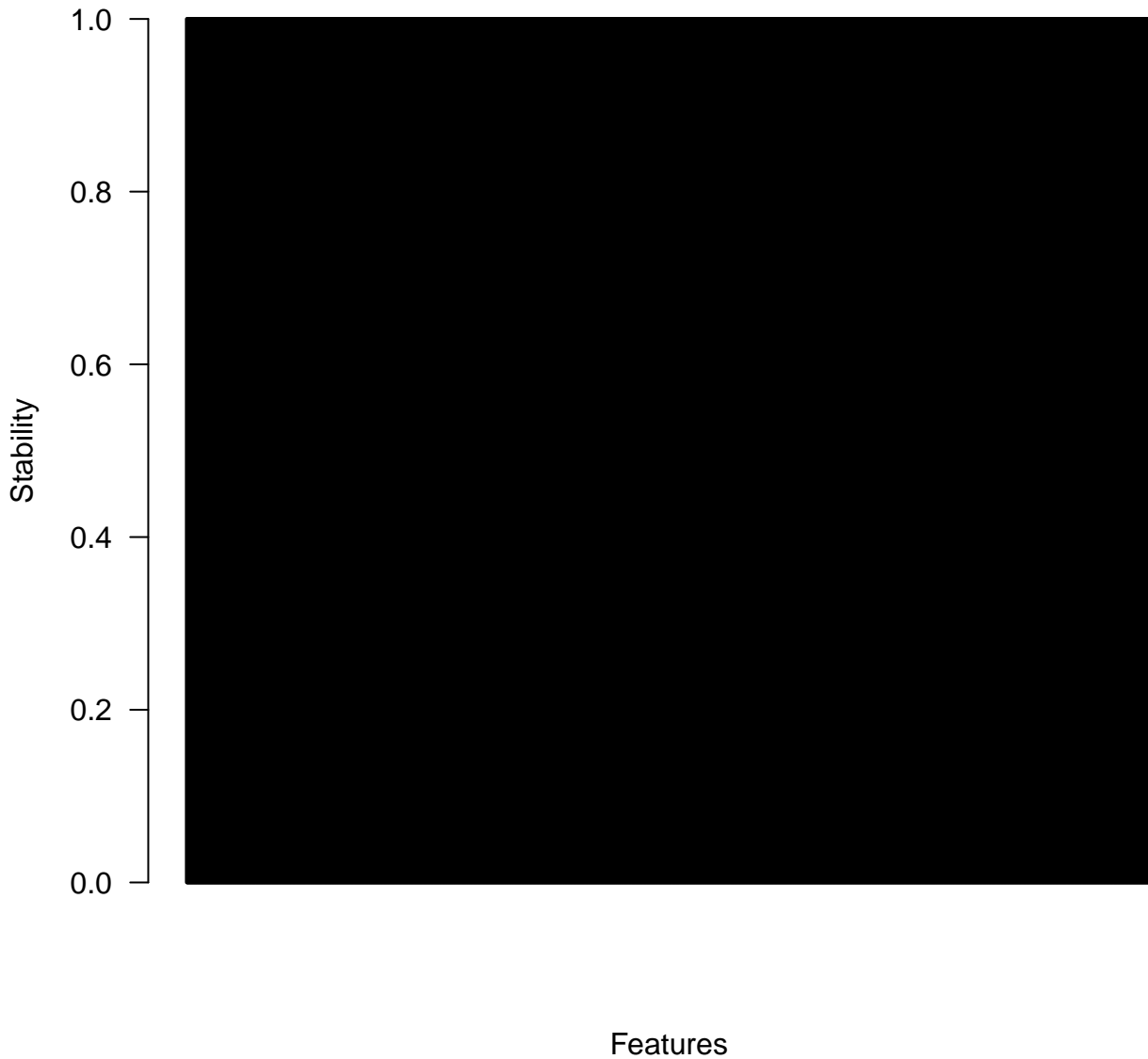
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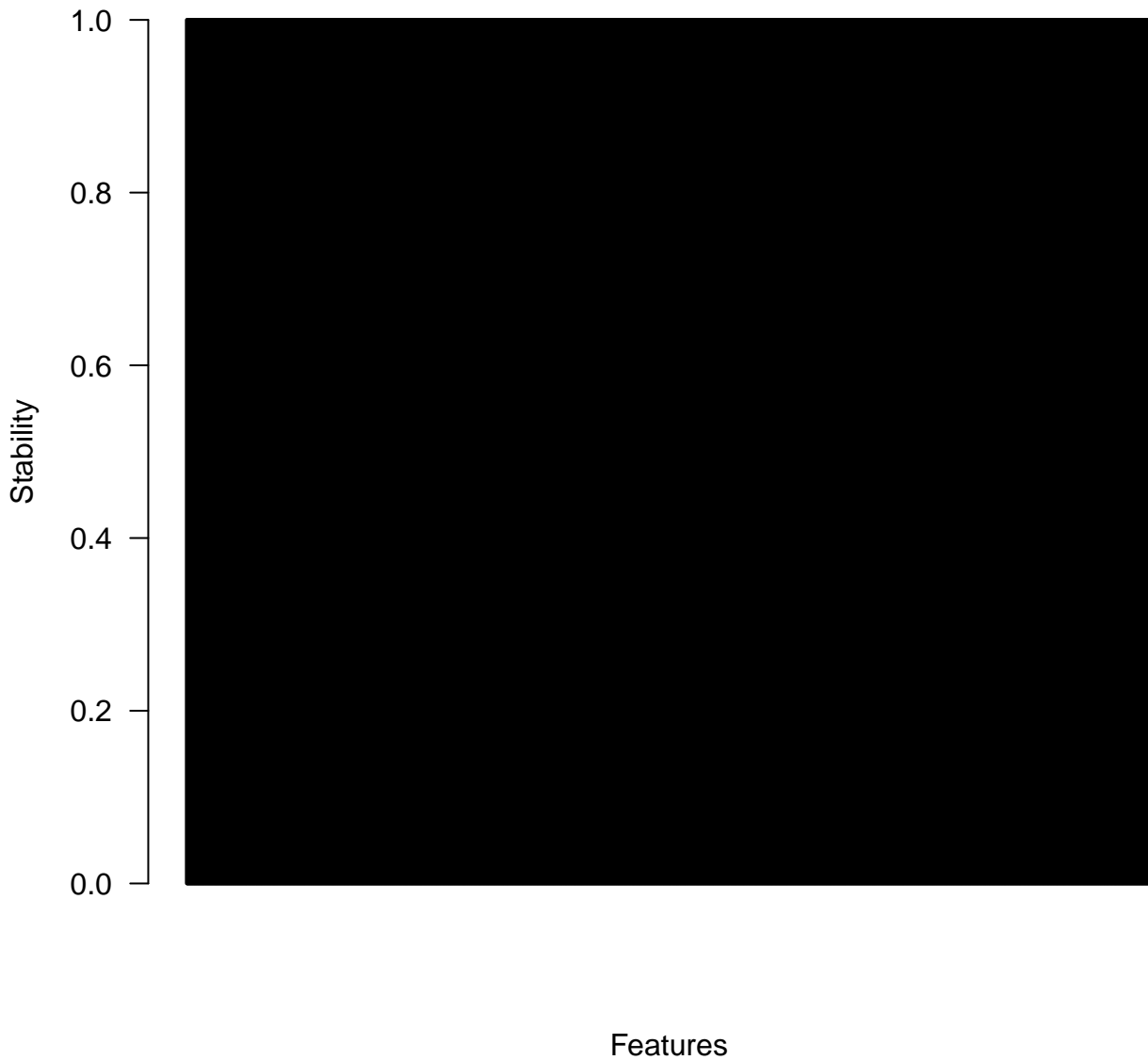
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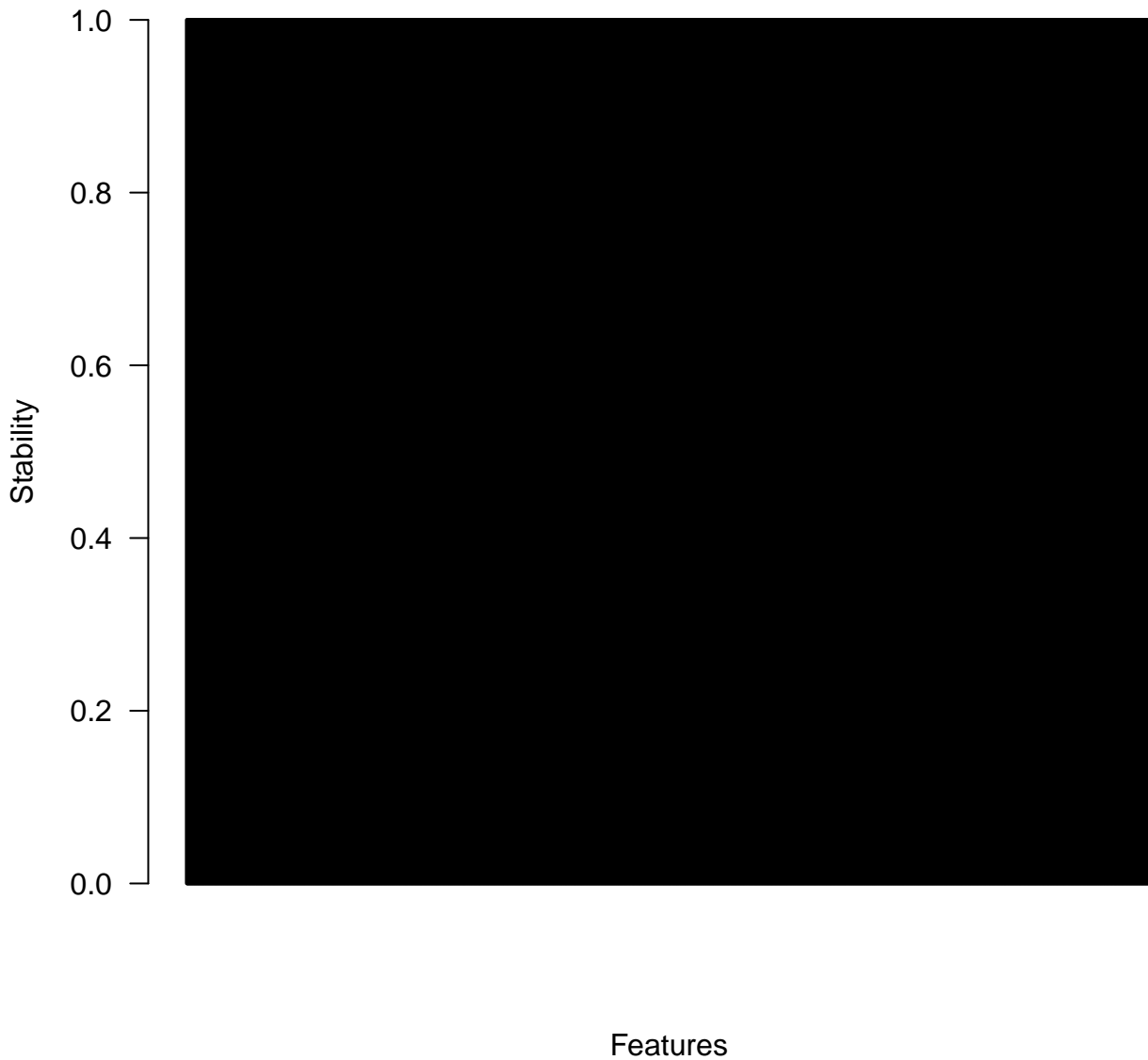
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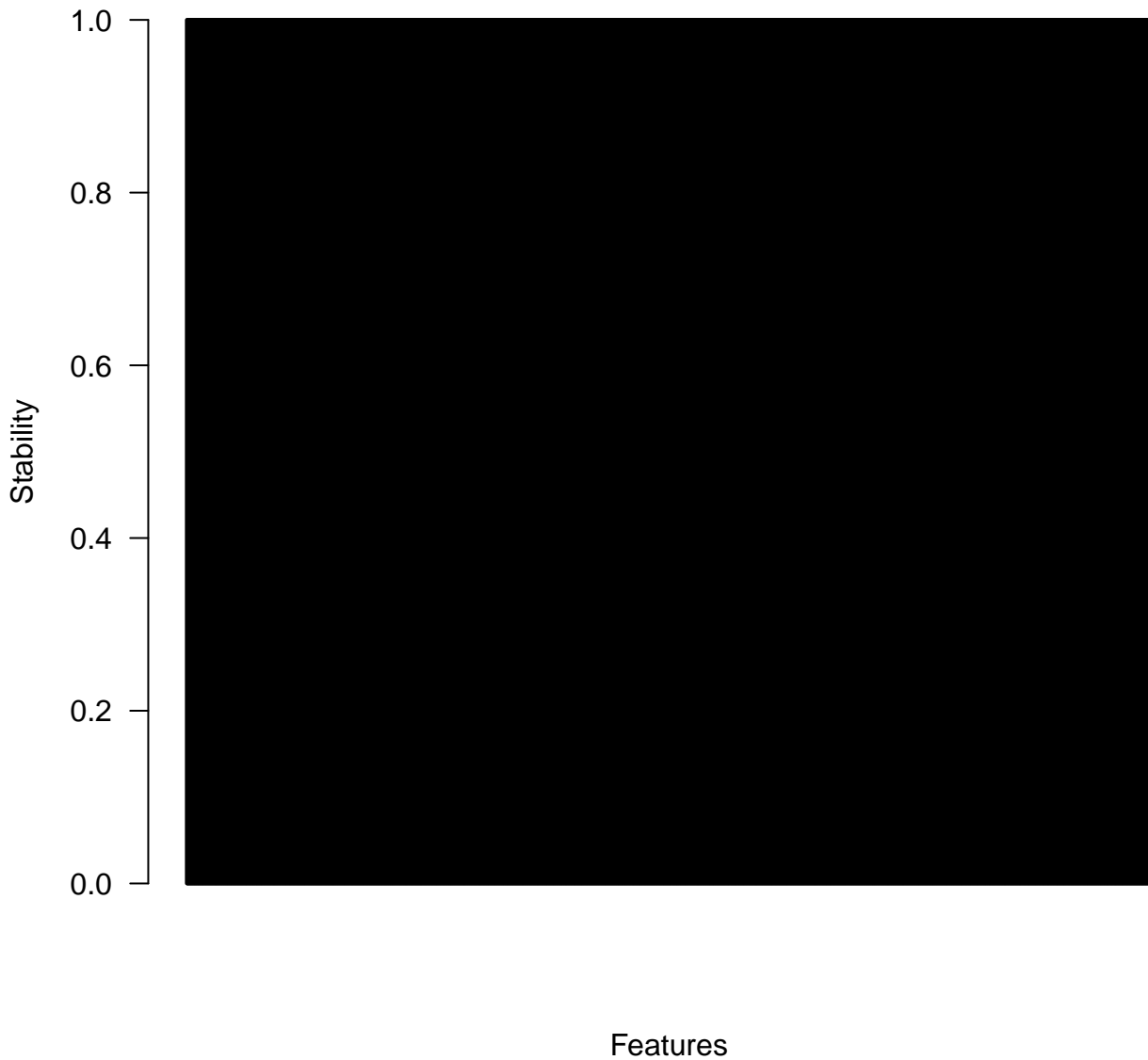
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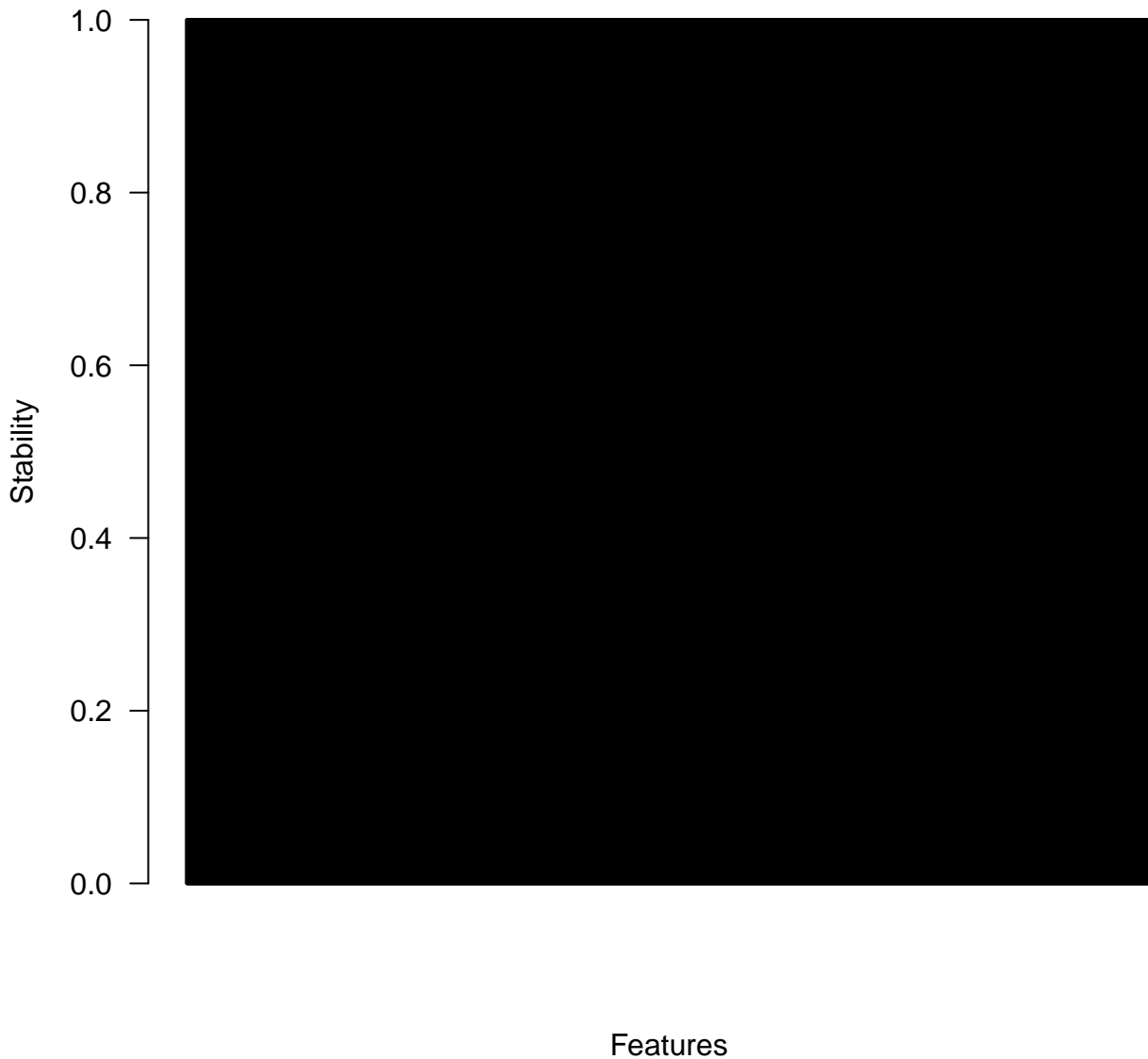
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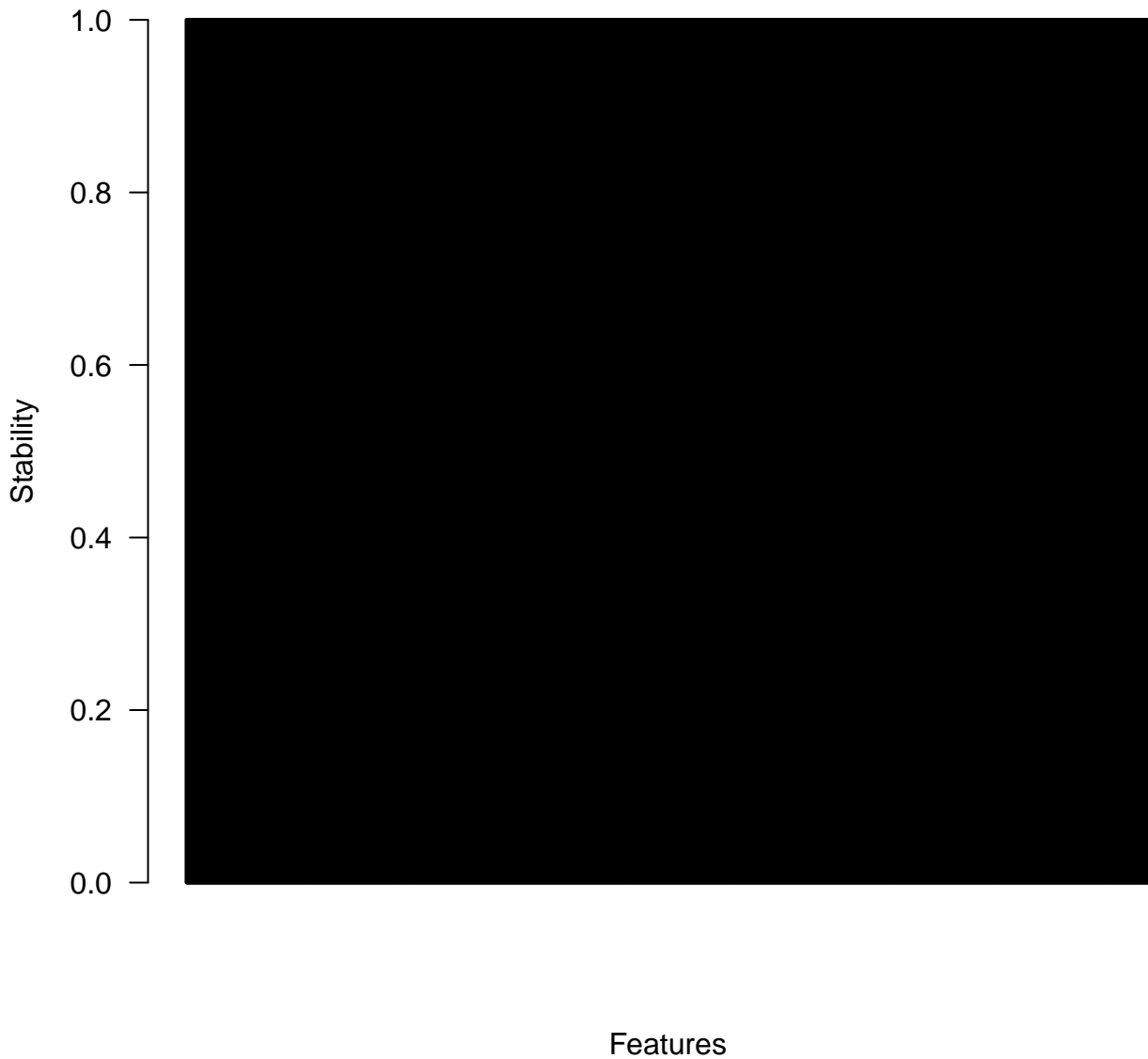
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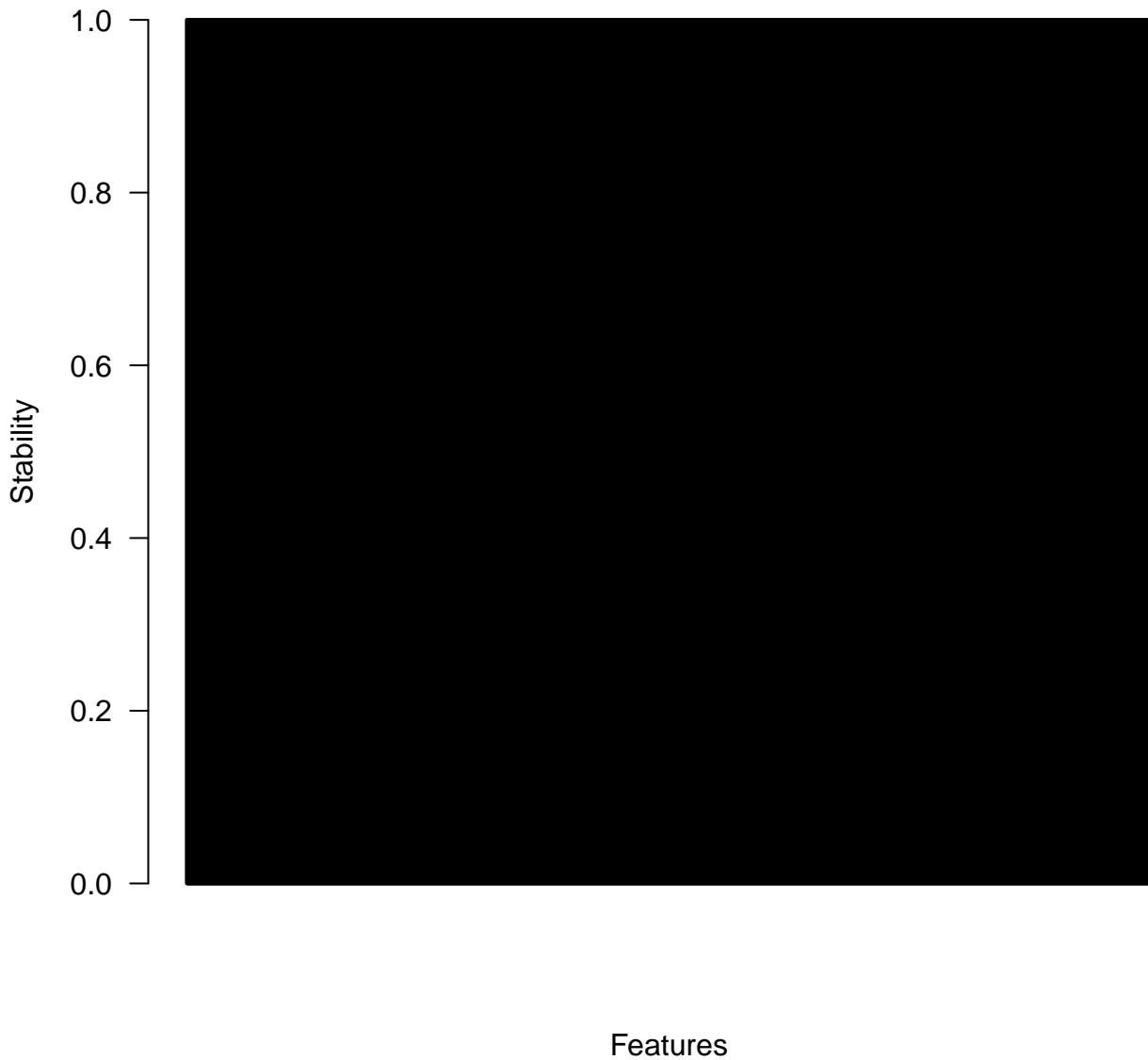
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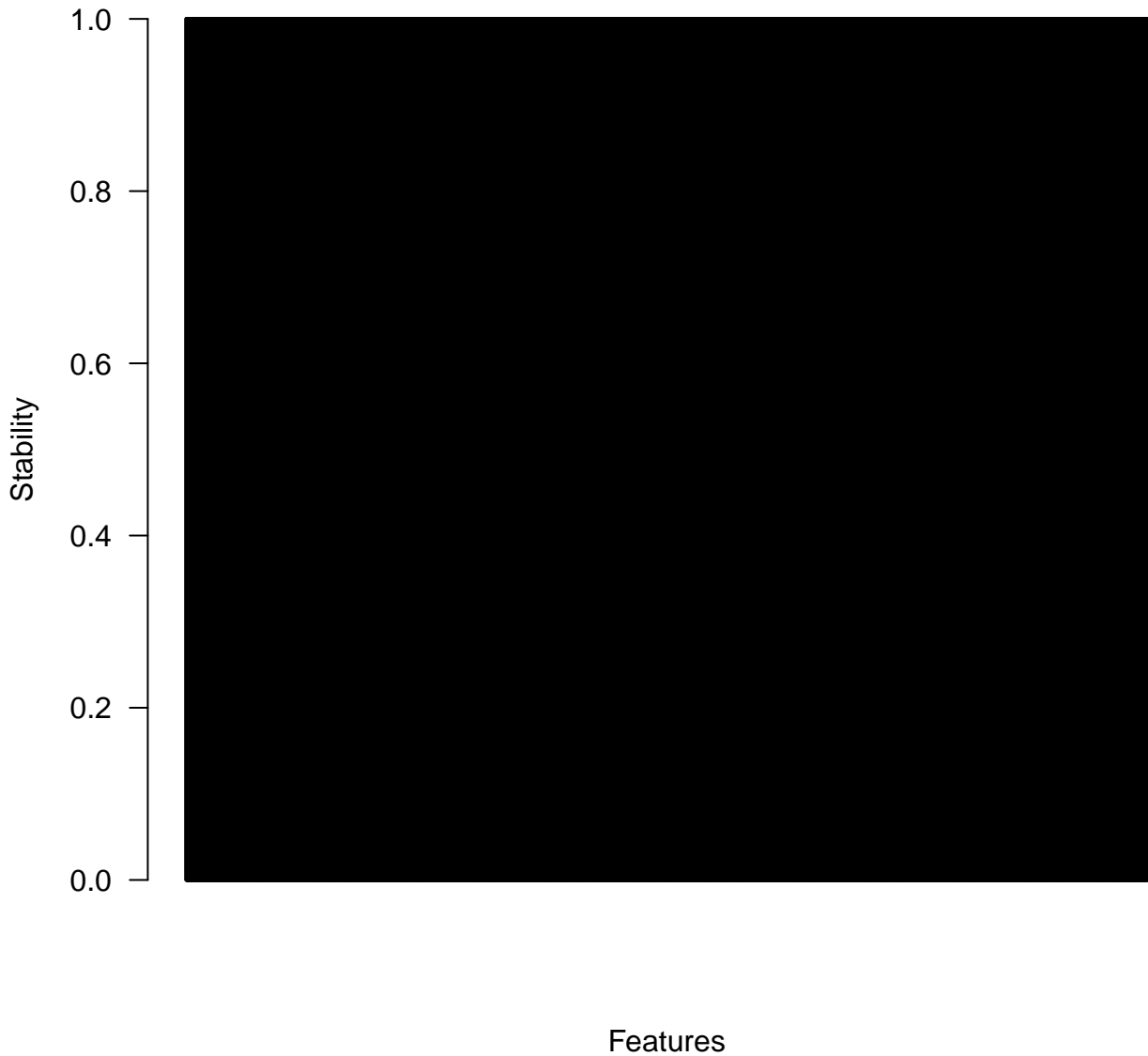
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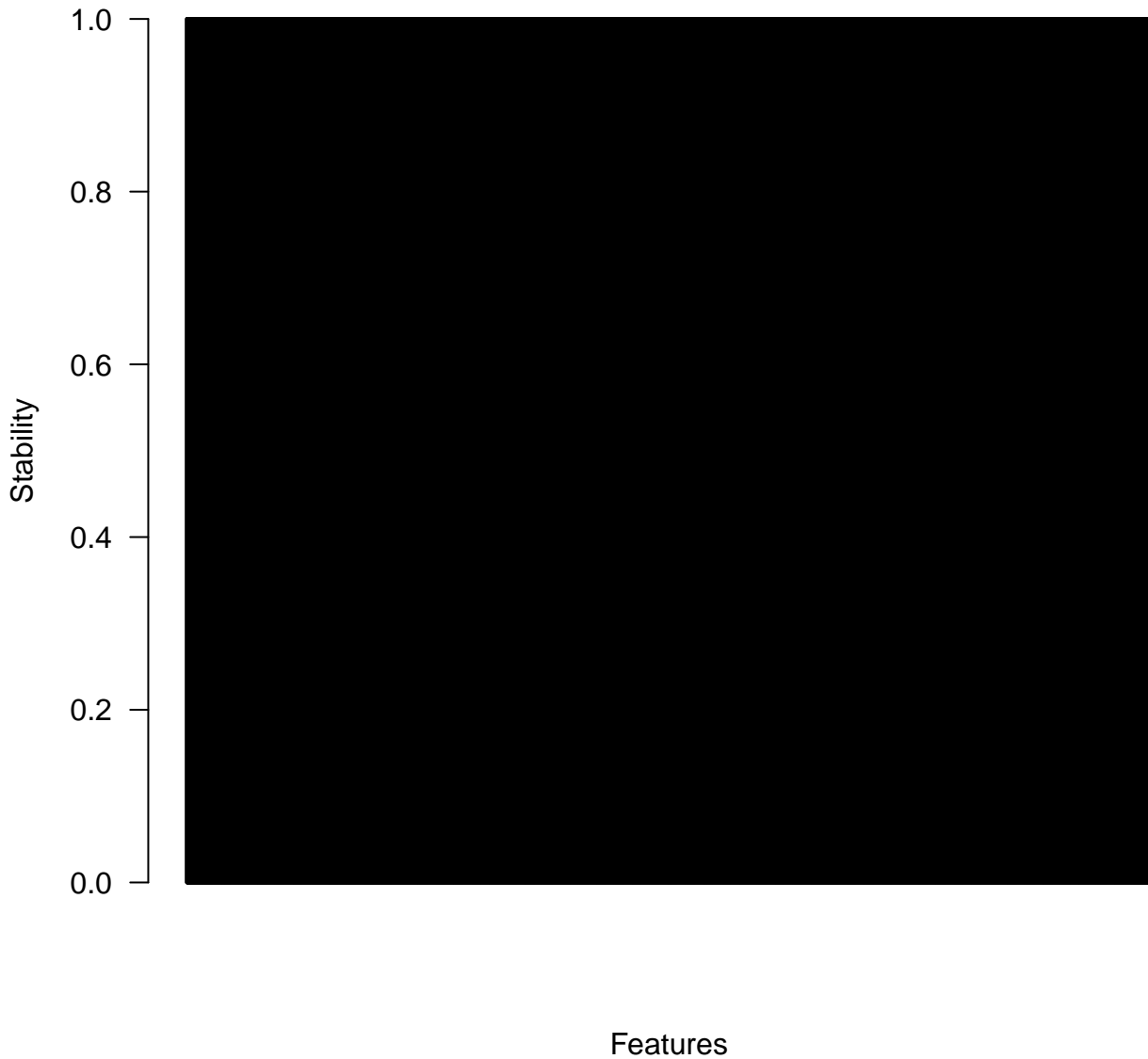
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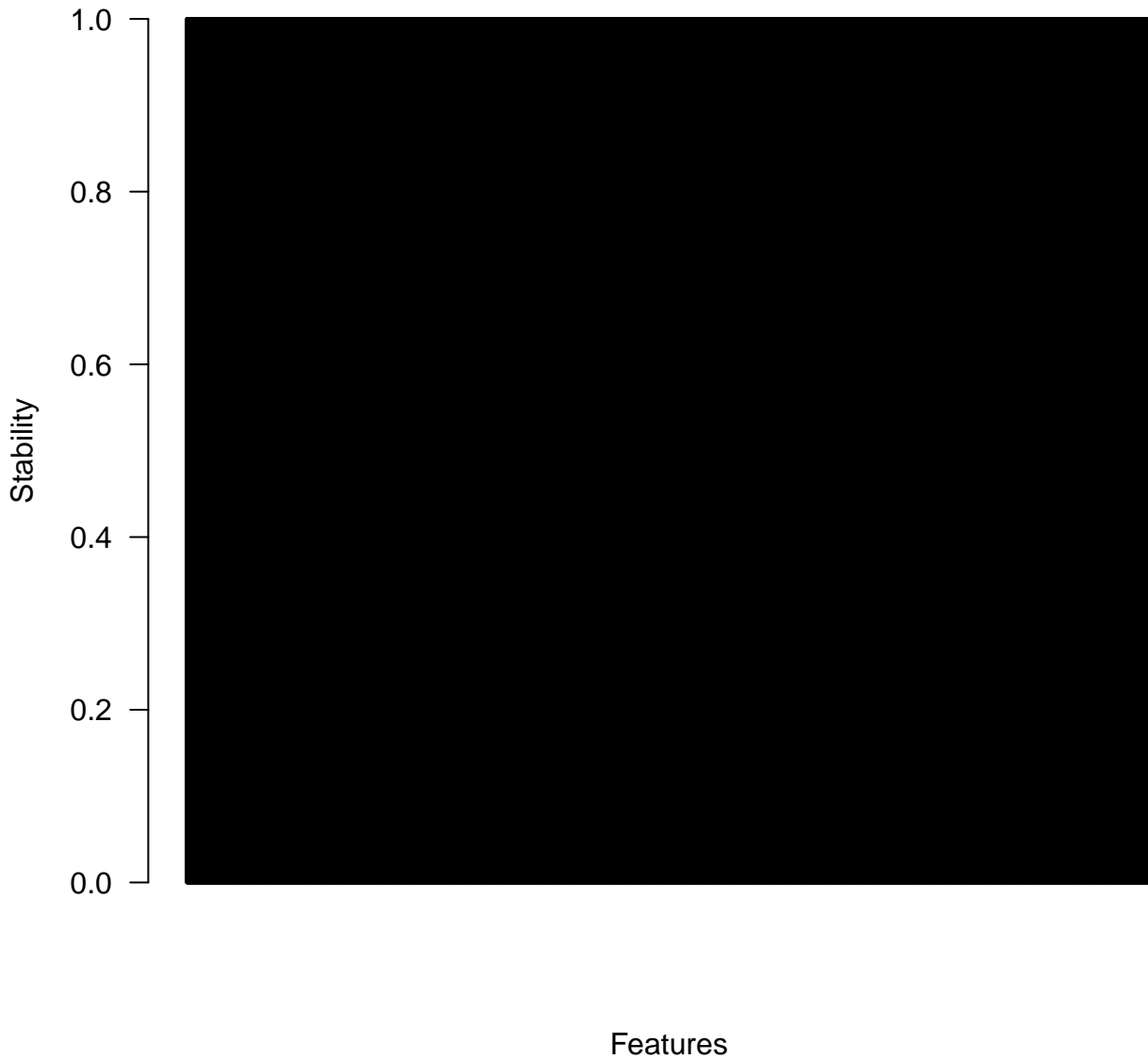
metabolome Comp 1



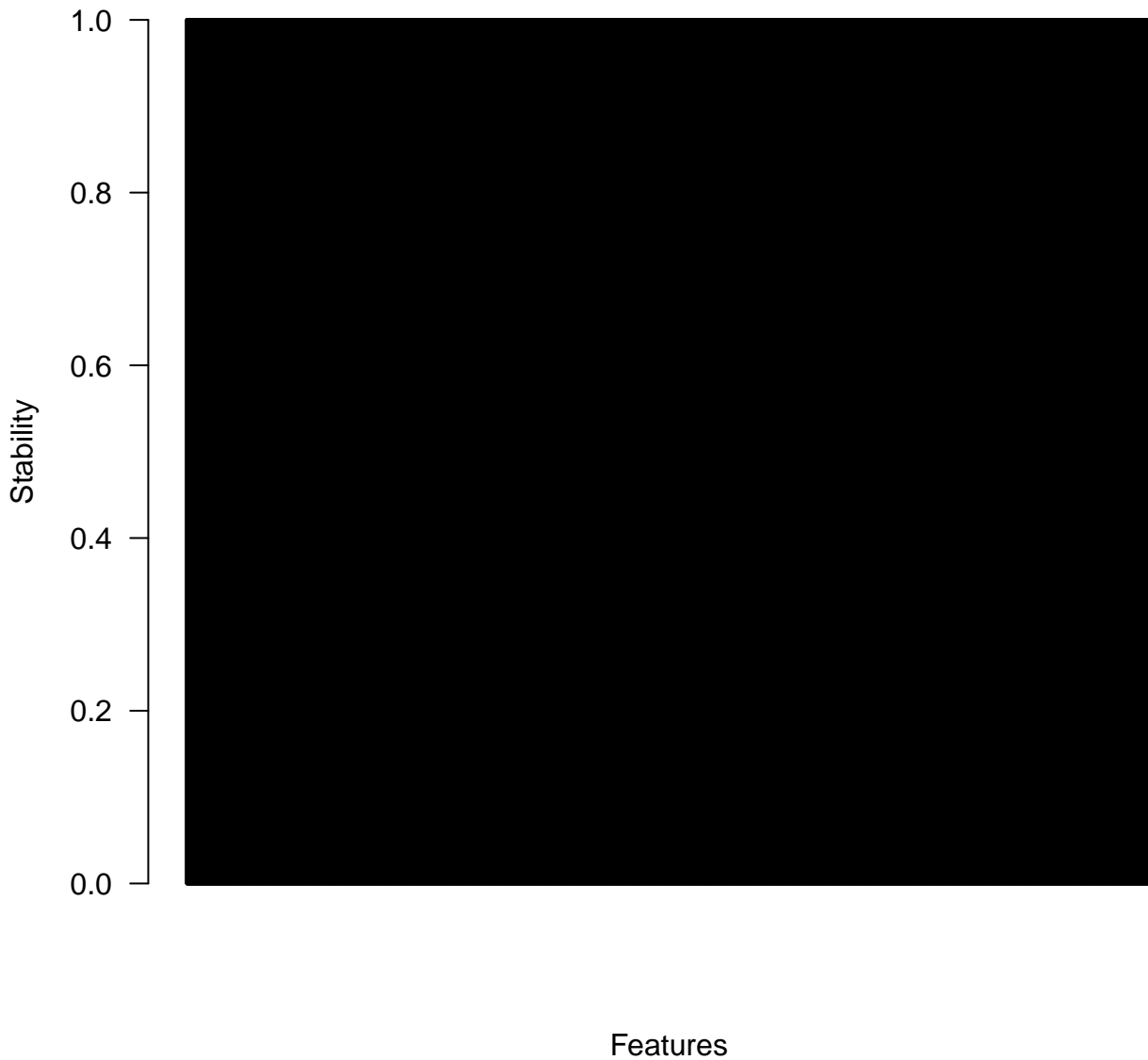
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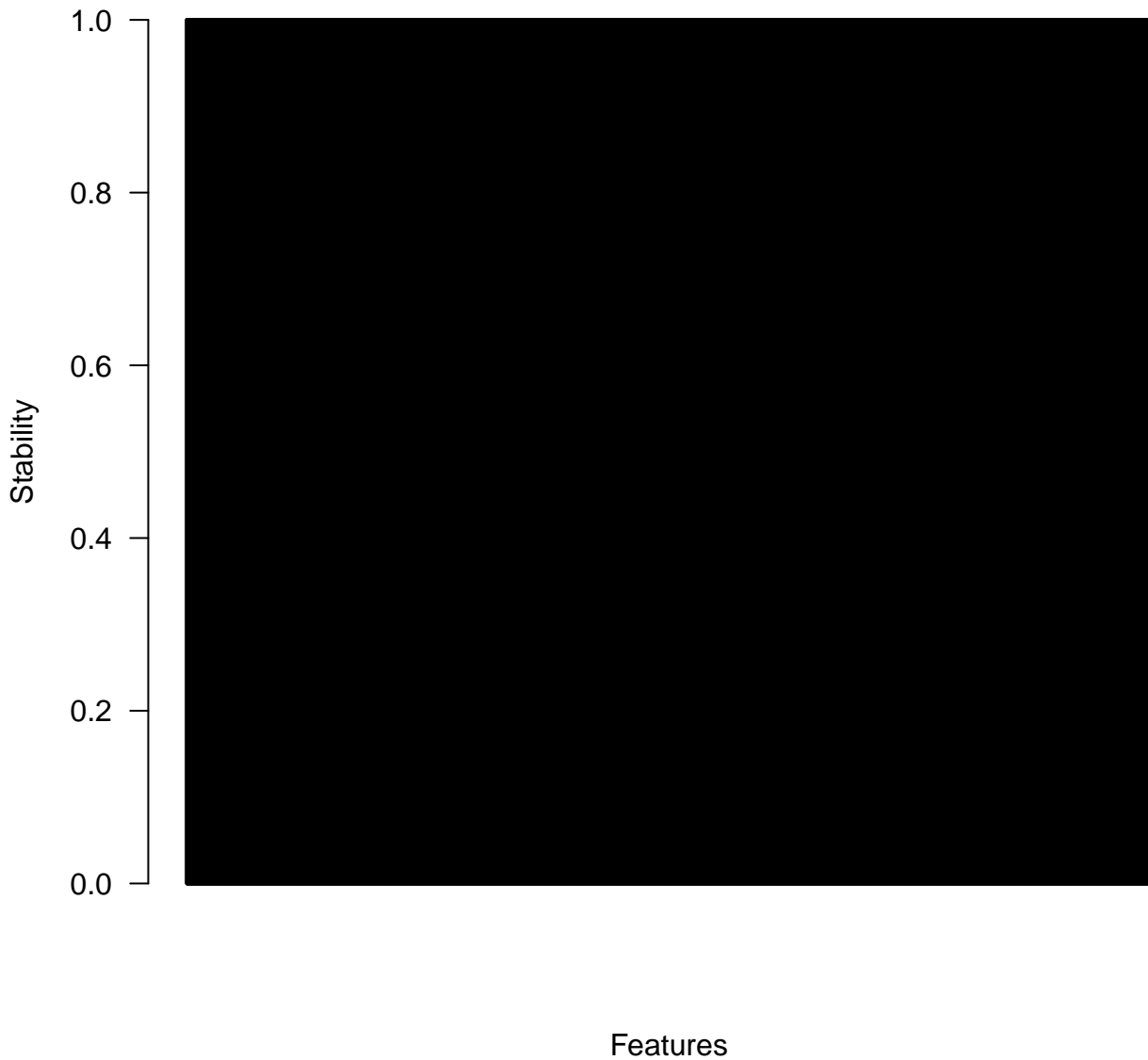
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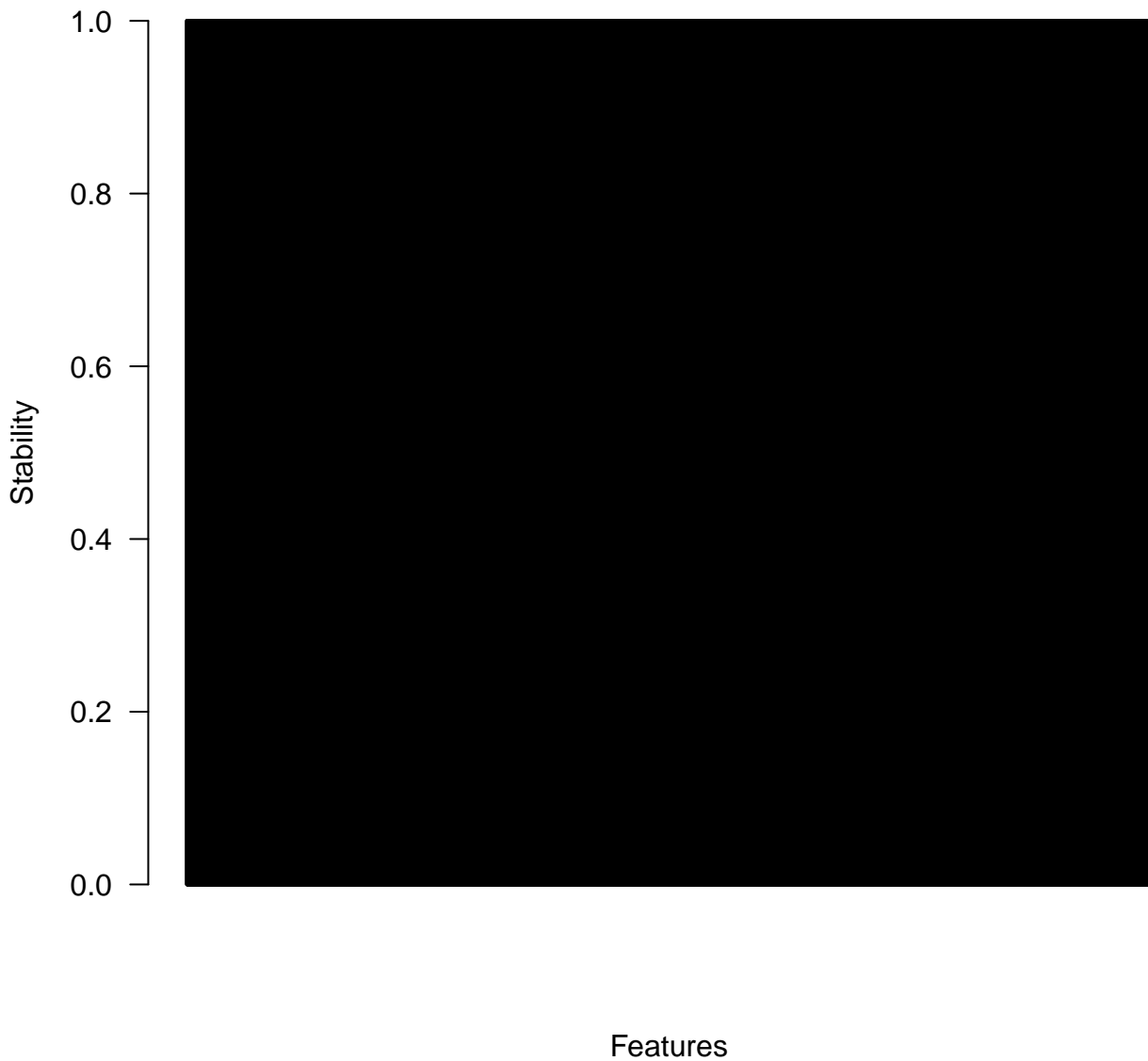
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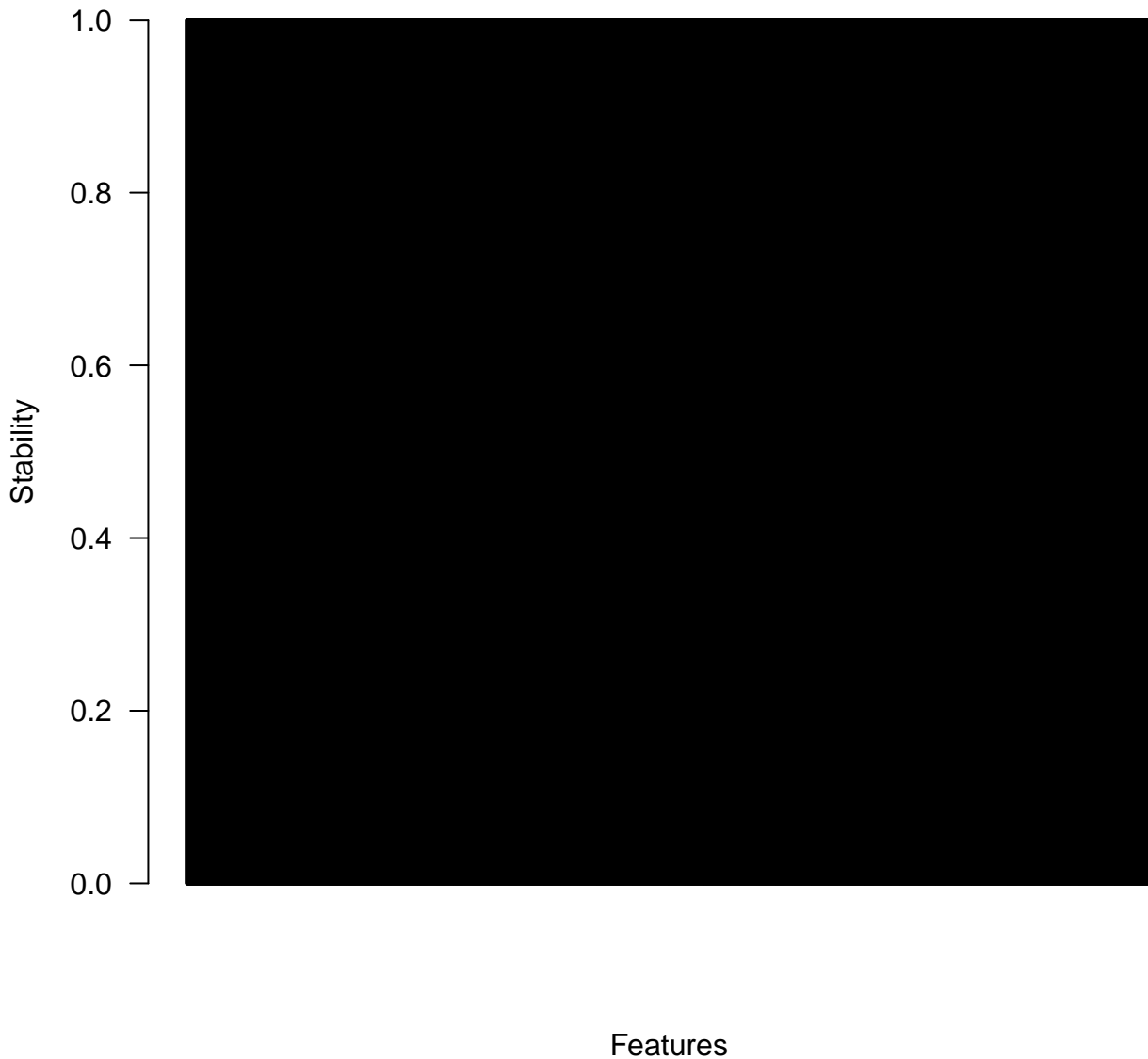
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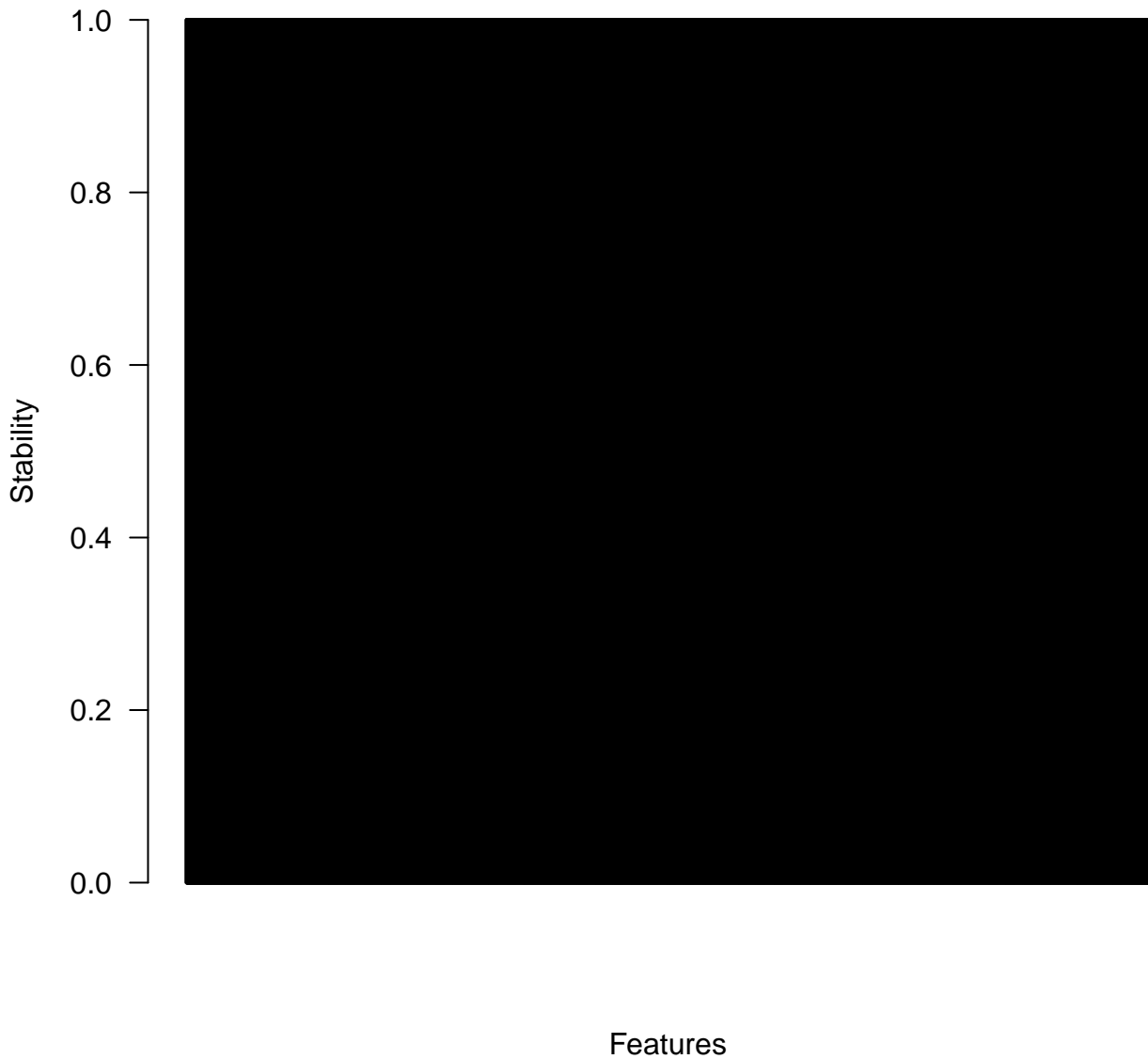
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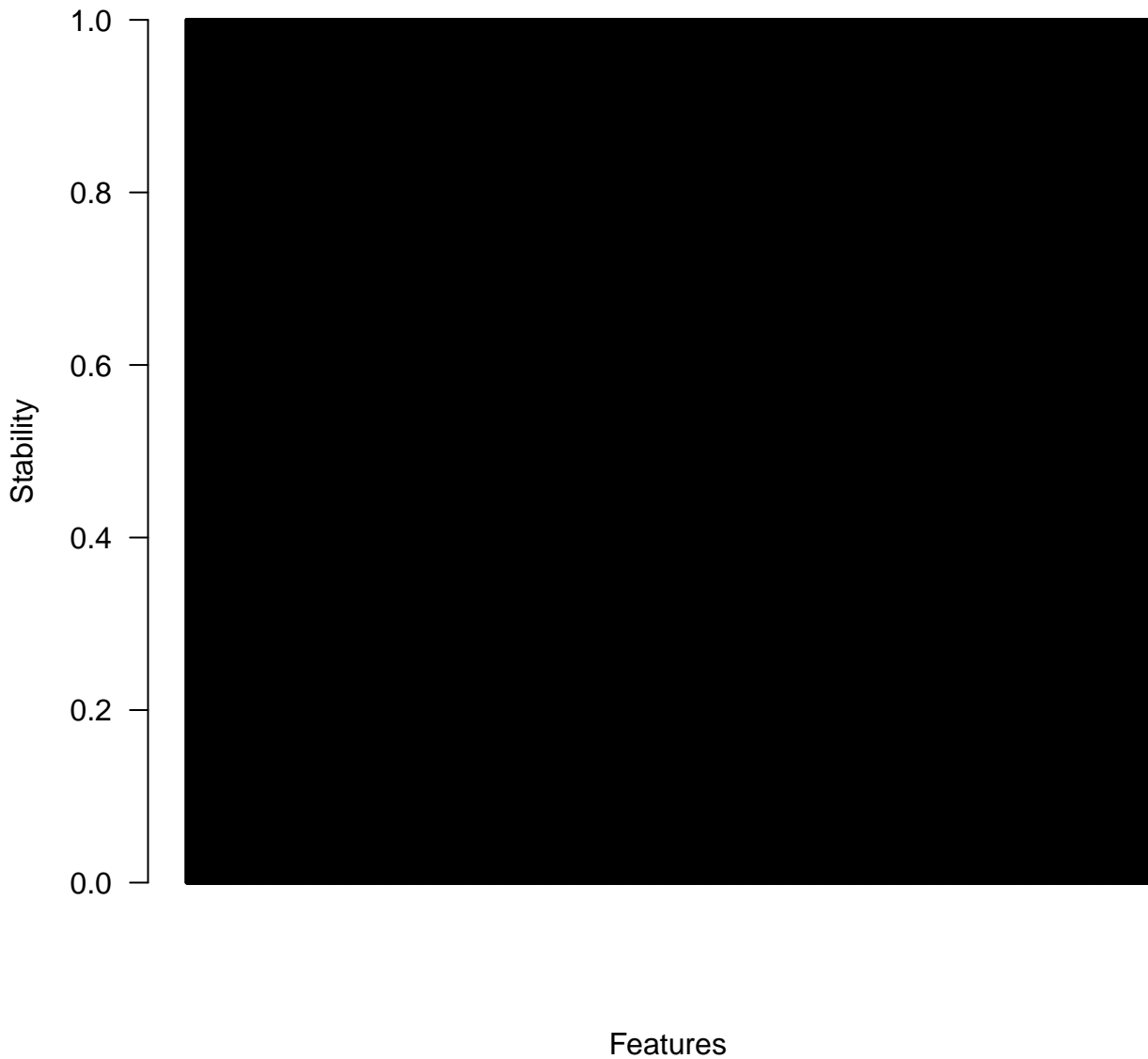
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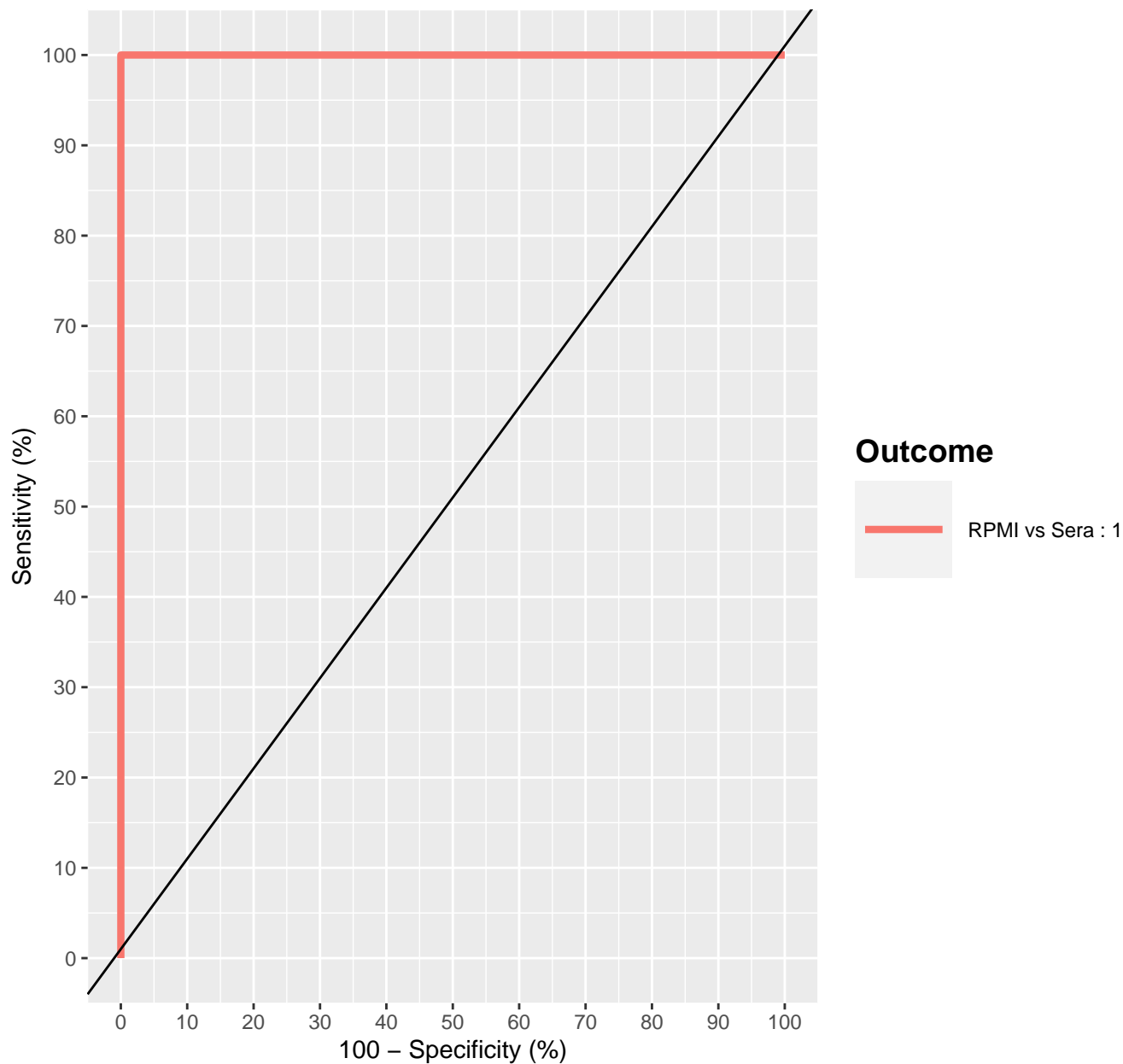
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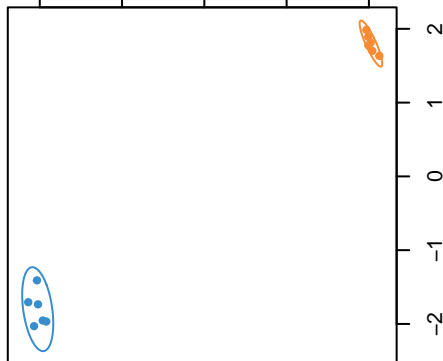
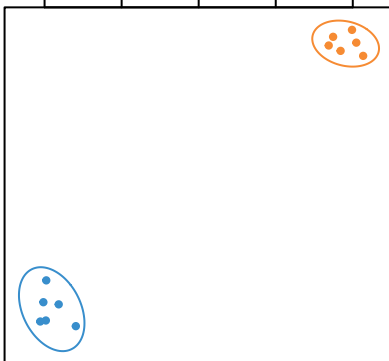
transcriptome Comp 3



ROC Curve
Block: metabolome, Using Comp(s): 1

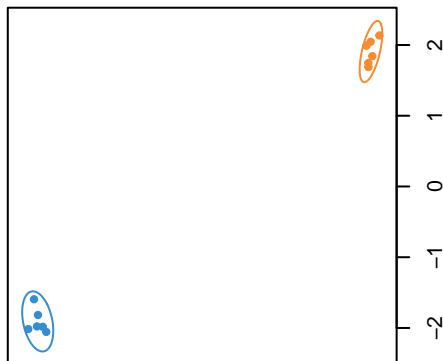


metabolome



0.99

proteome



0.99

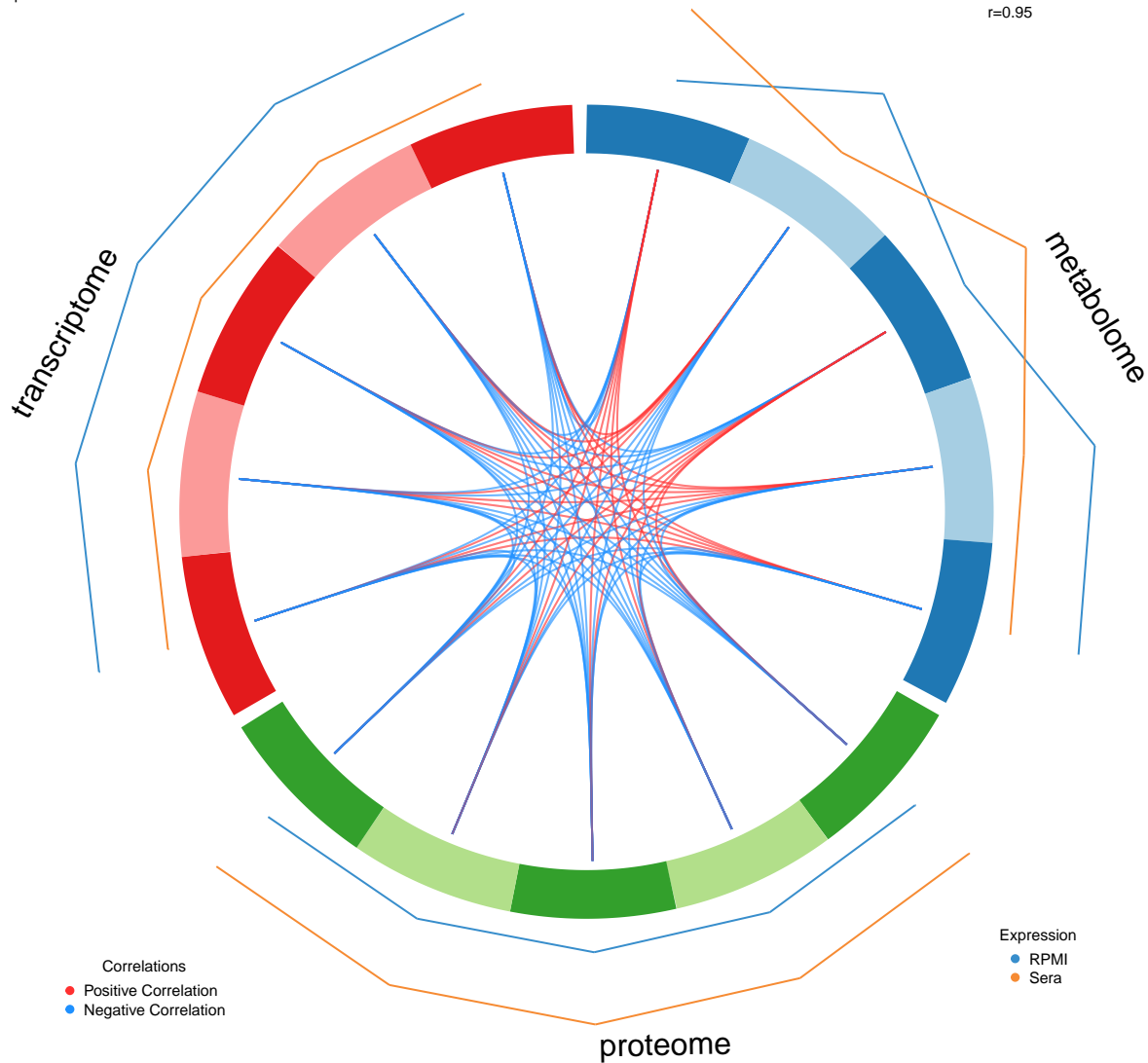
1

transcriptome

● RPMI ● Sera

Comp 1

Correlation cut-off
 $r=0.95$

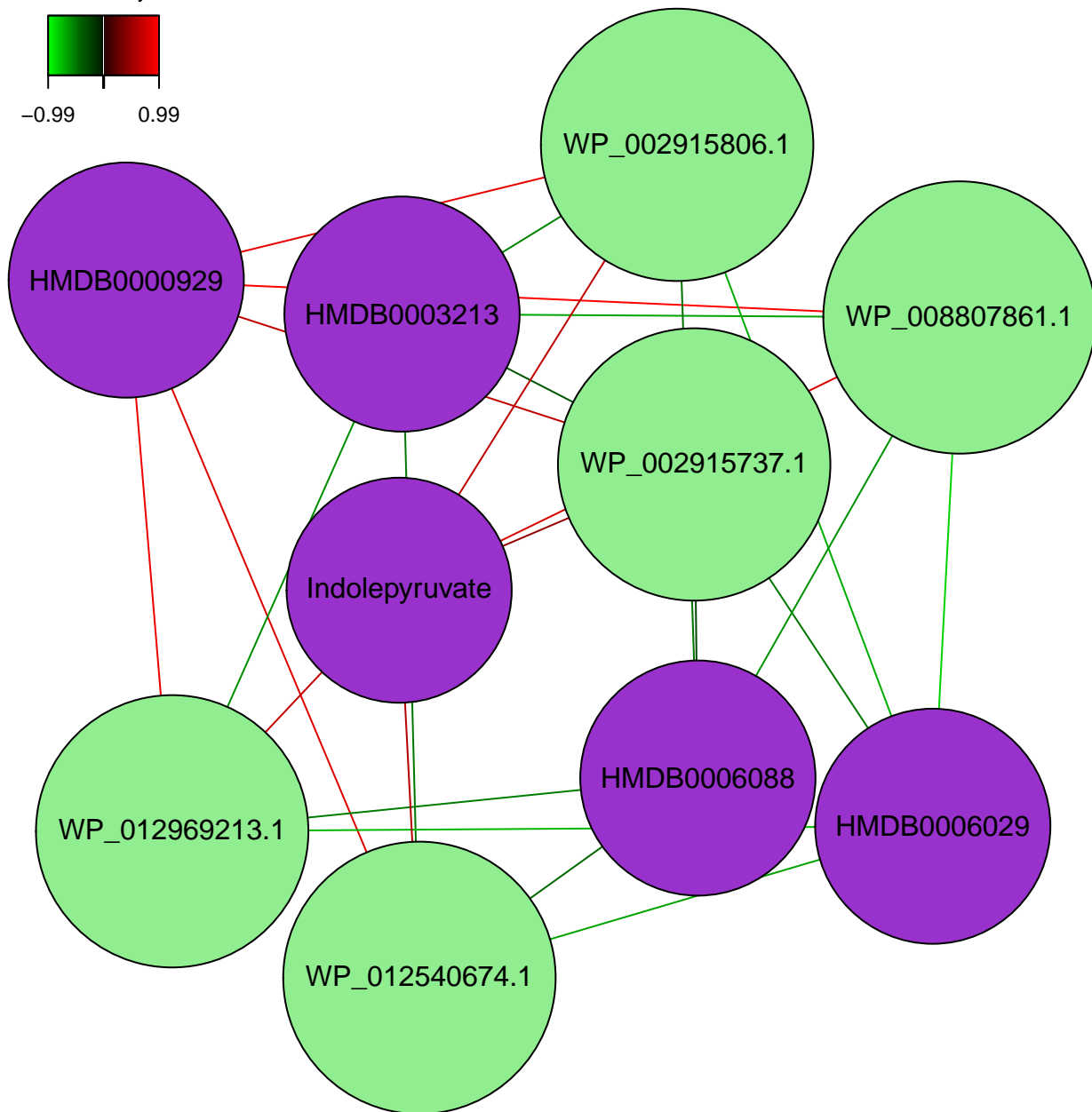


Color key

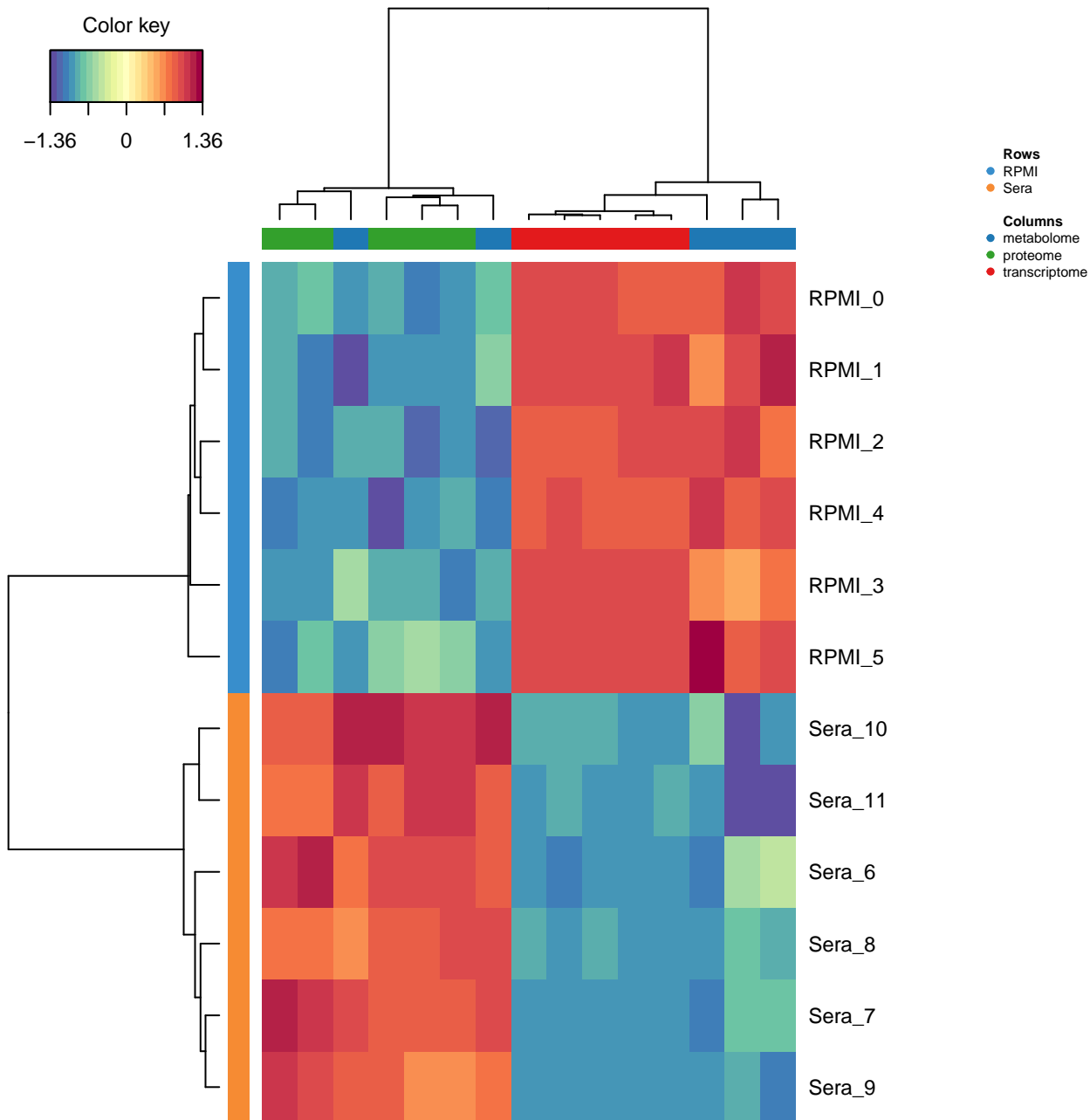
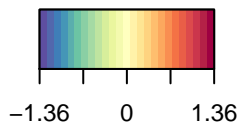


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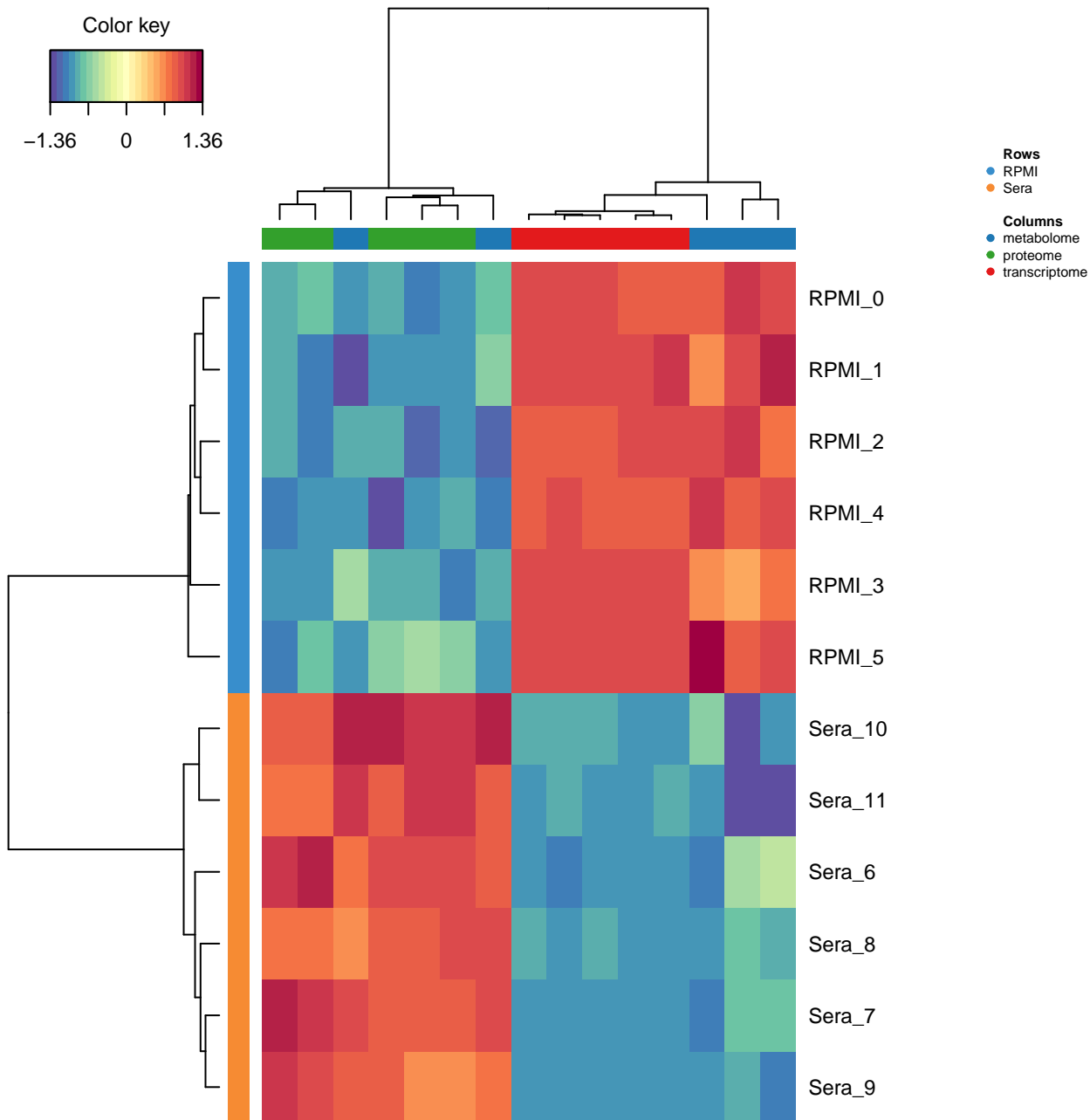
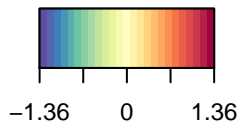
0.99



Color key

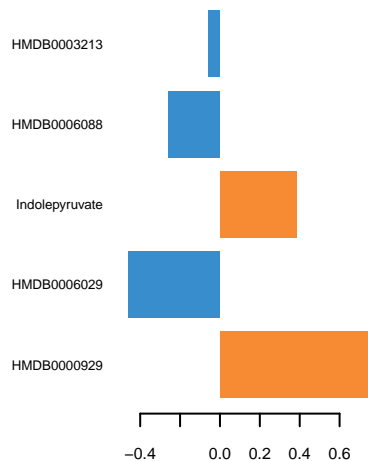


Color key

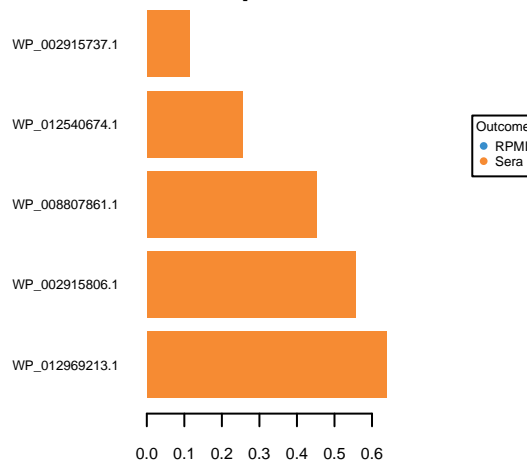


1 DIABLO max loadings

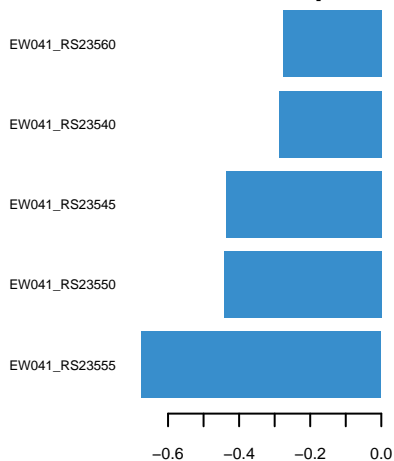
Contribution on comp 1
Block 'metabolome'



Contribution on comp 1
Block 'proteome'

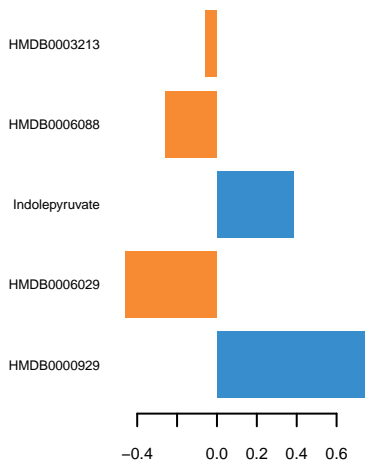


Contribution on comp 1
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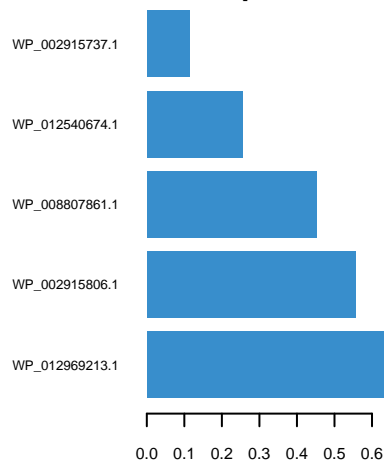


1 DIABLO min loadings

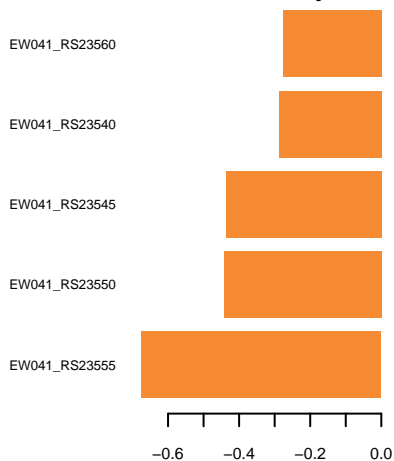
Contribution on comp 1
Block 'metabolome'



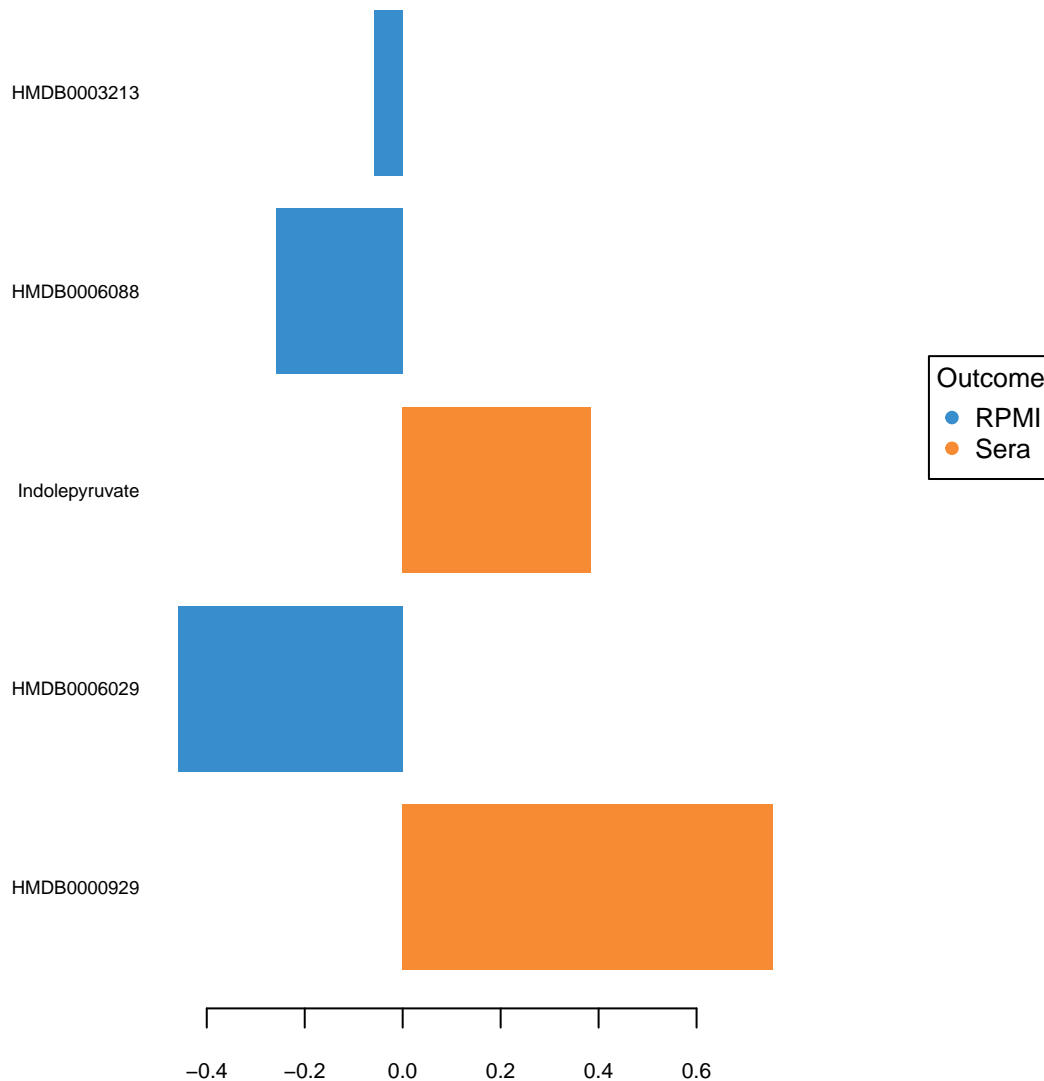
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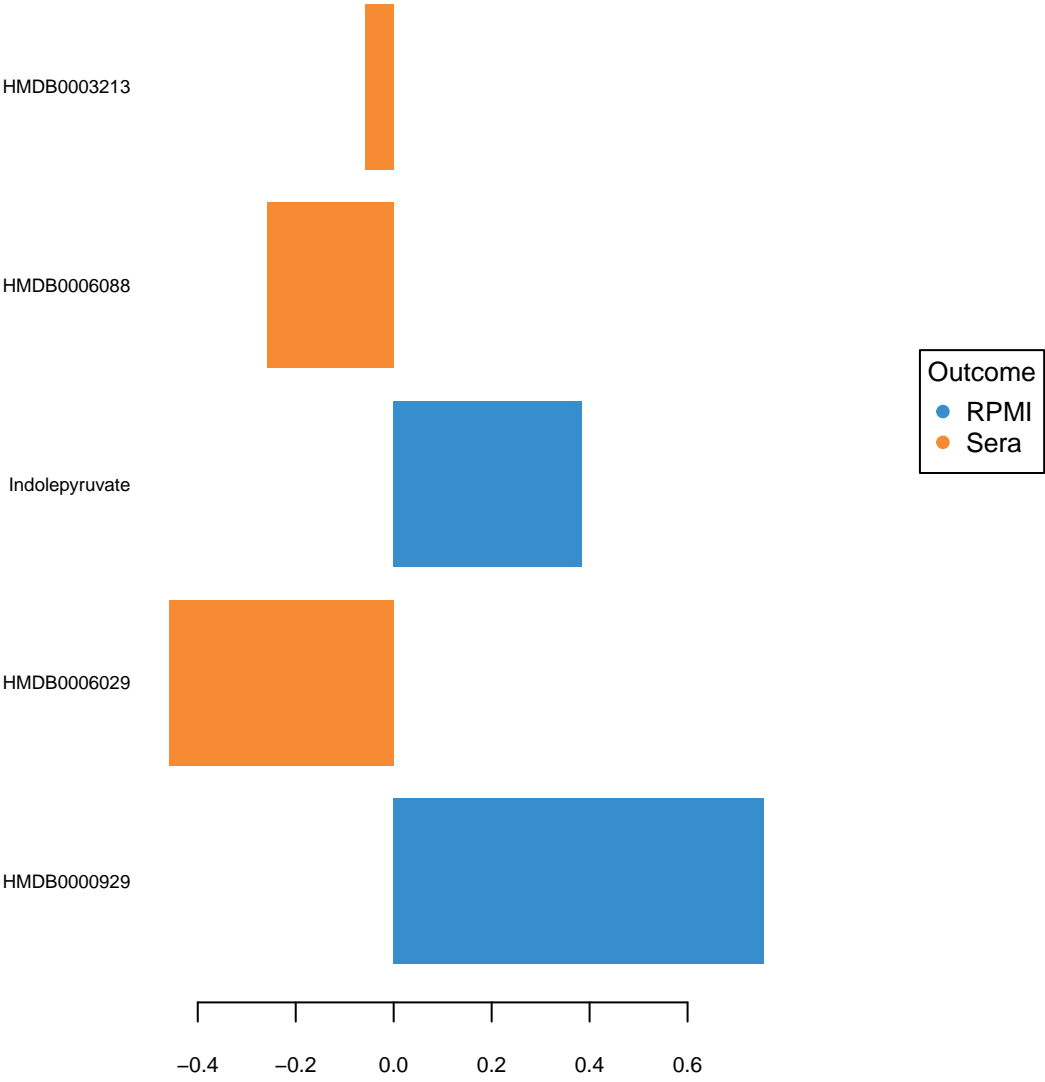
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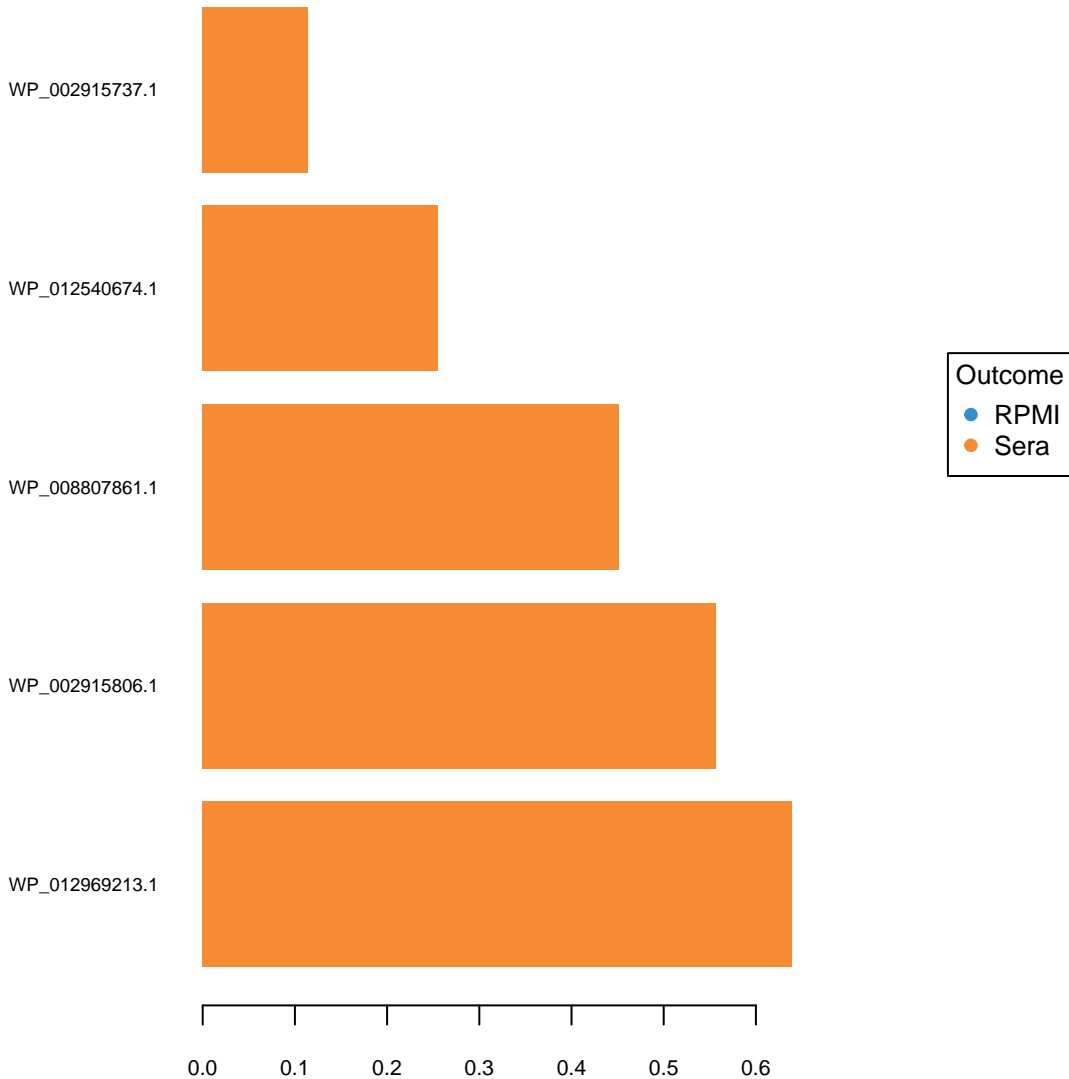
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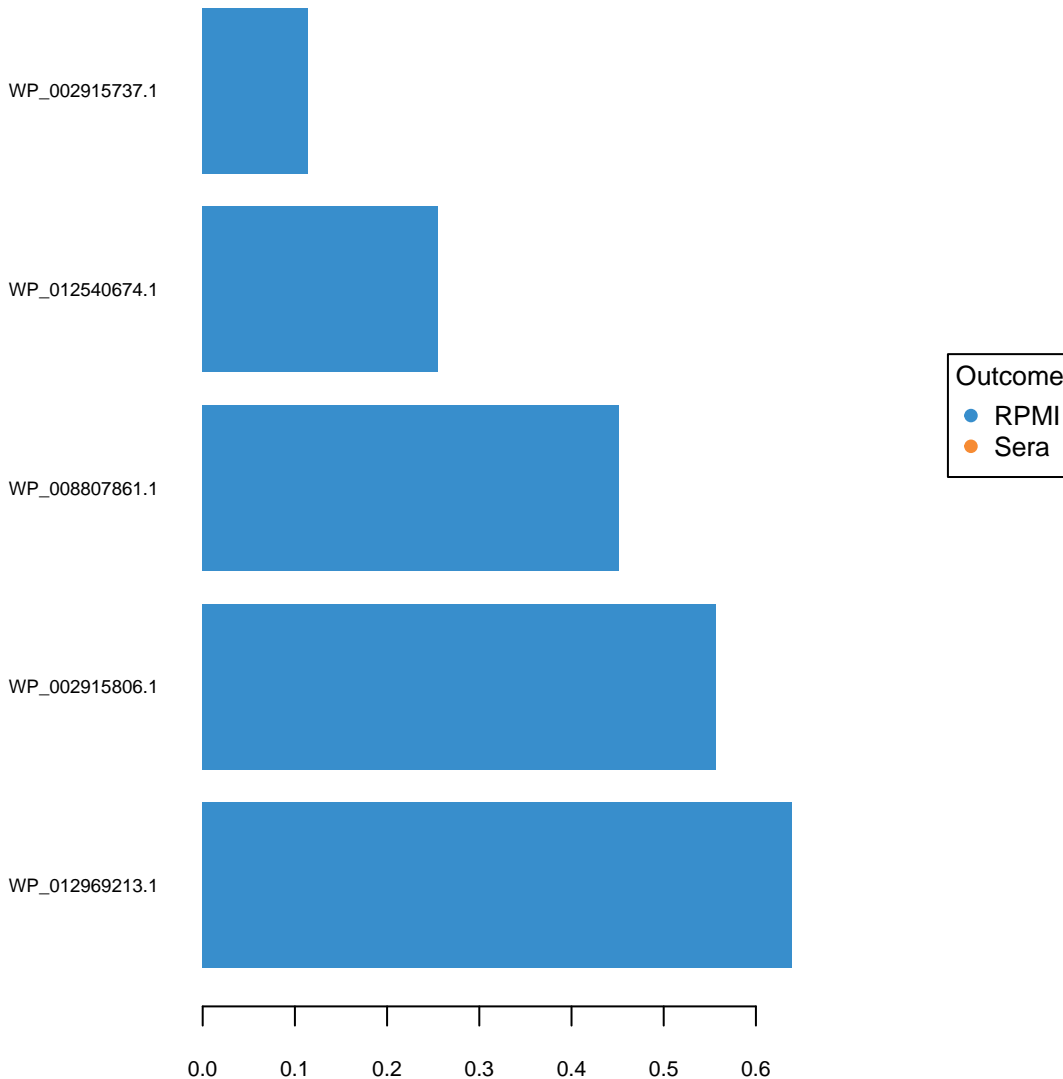
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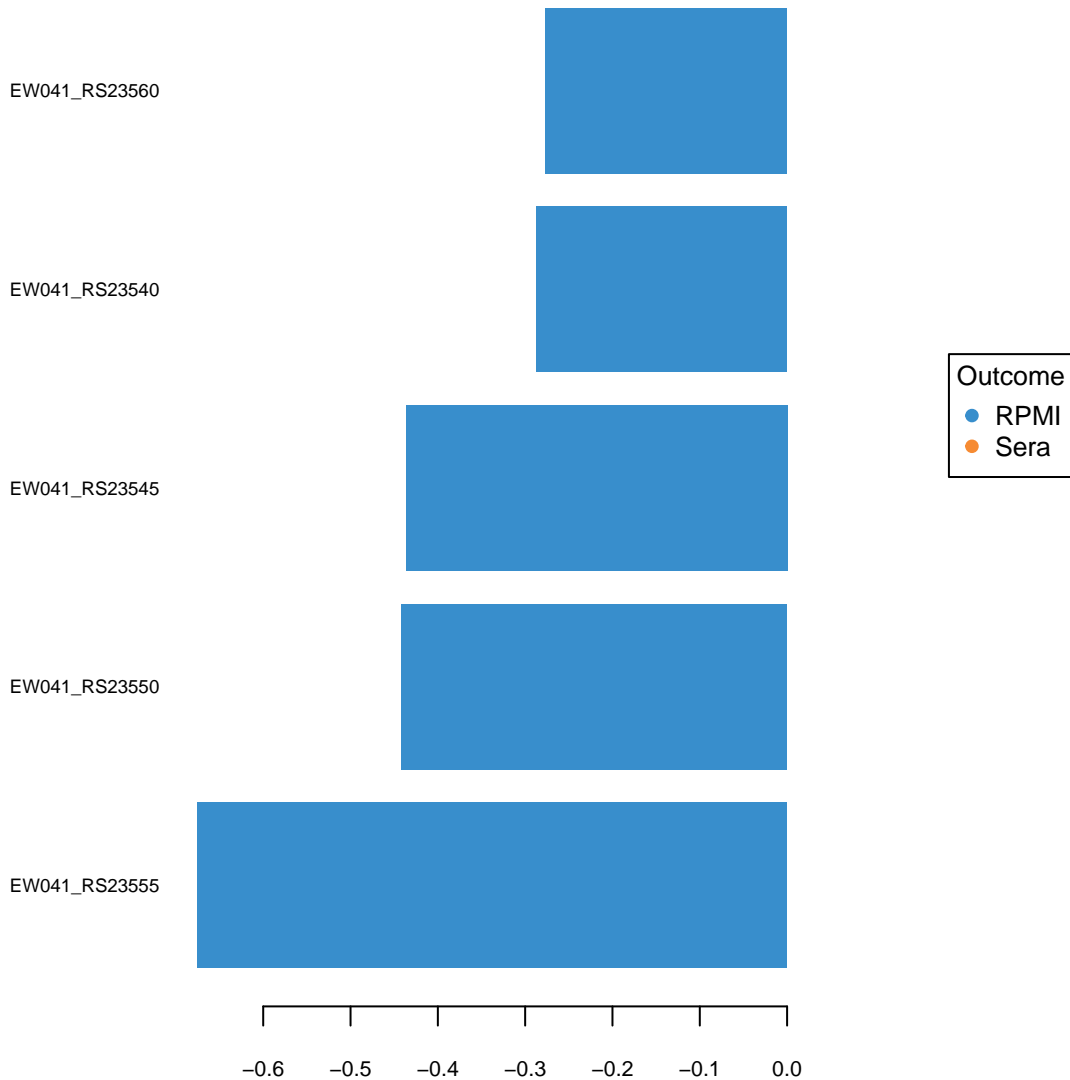
1 proteome DIABLO max load



1 proteome DIABLO min load



1 transcriptome DIABLO max loa



1 transcriptome DIABLO min loa

