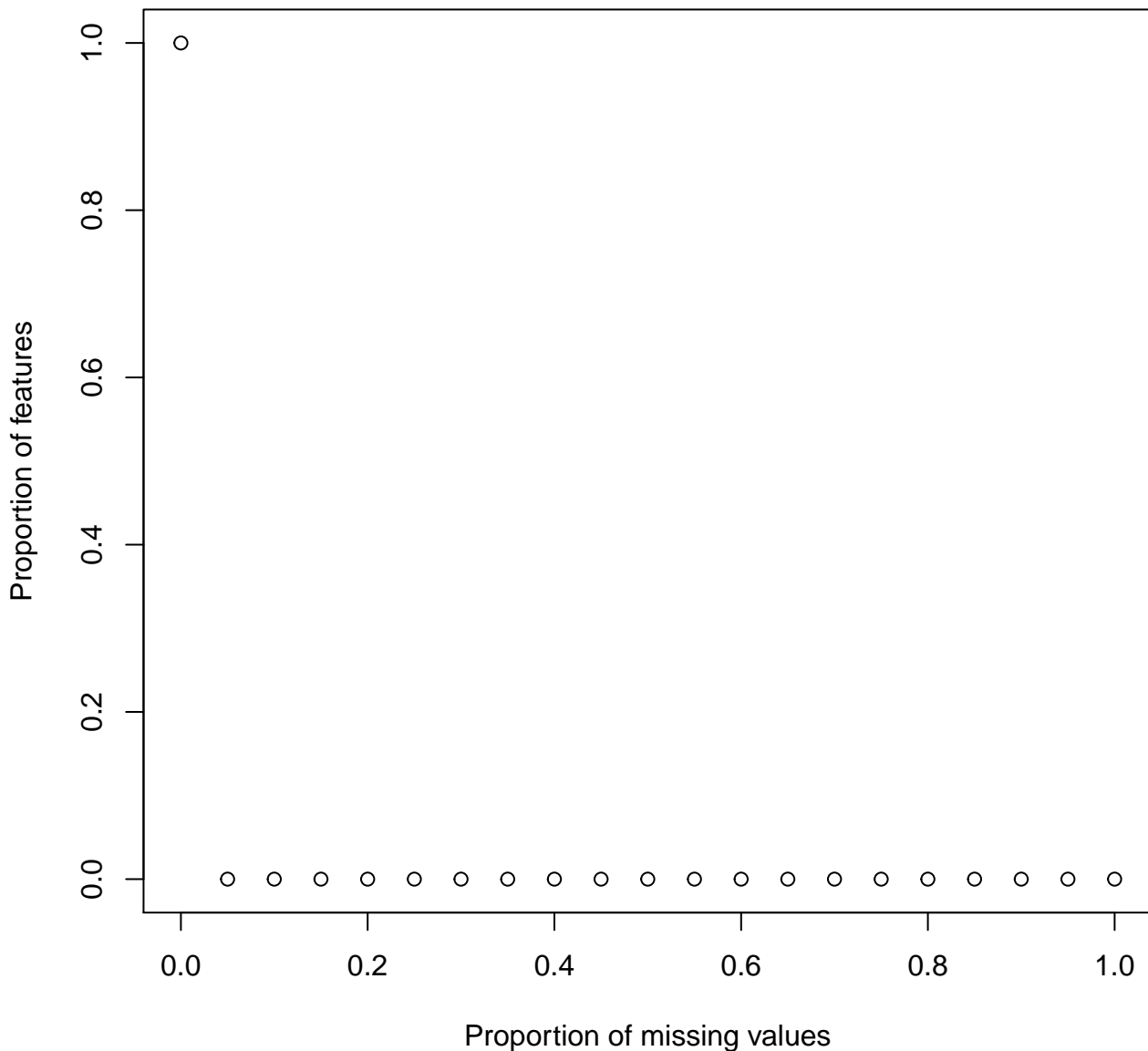
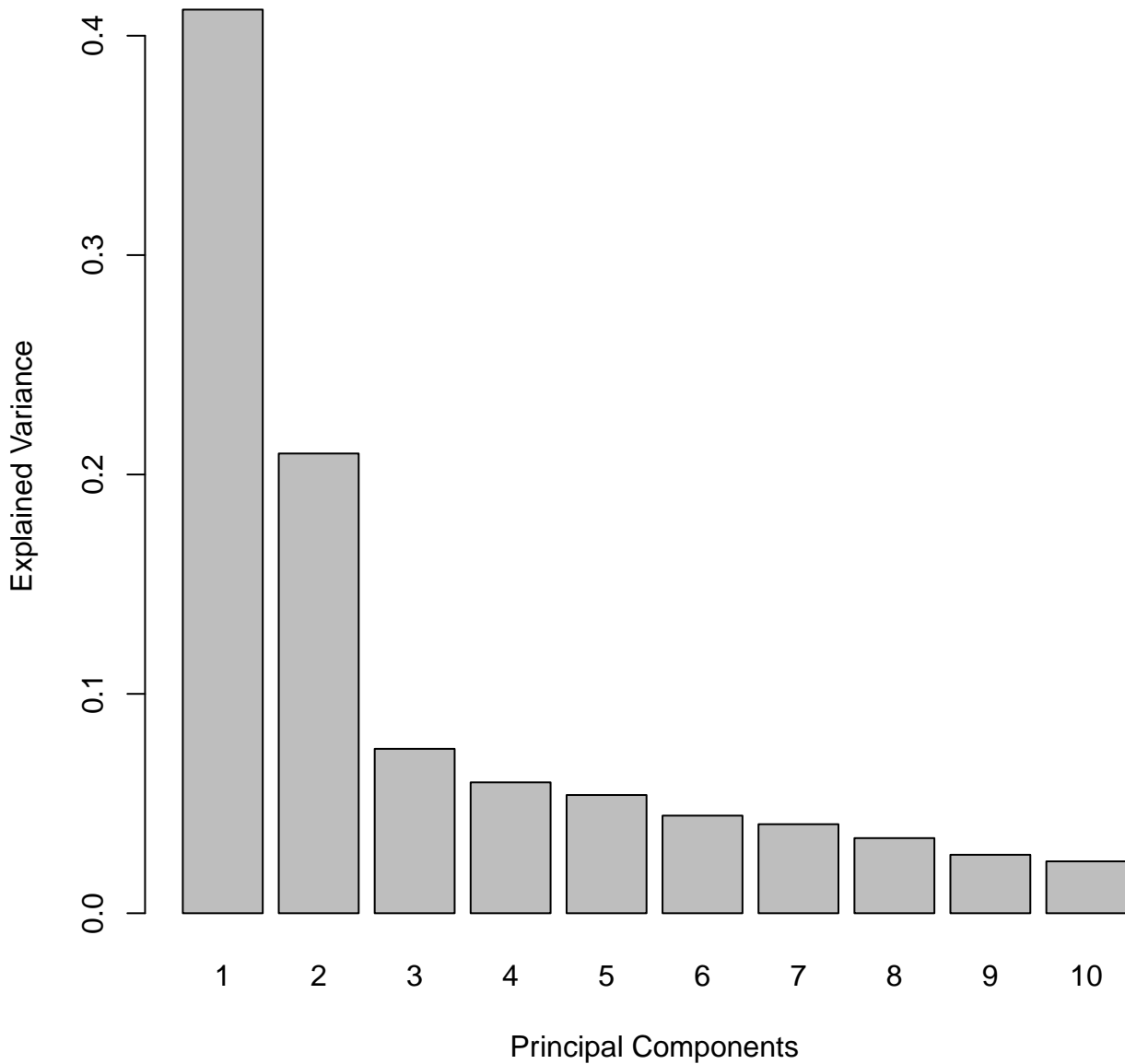


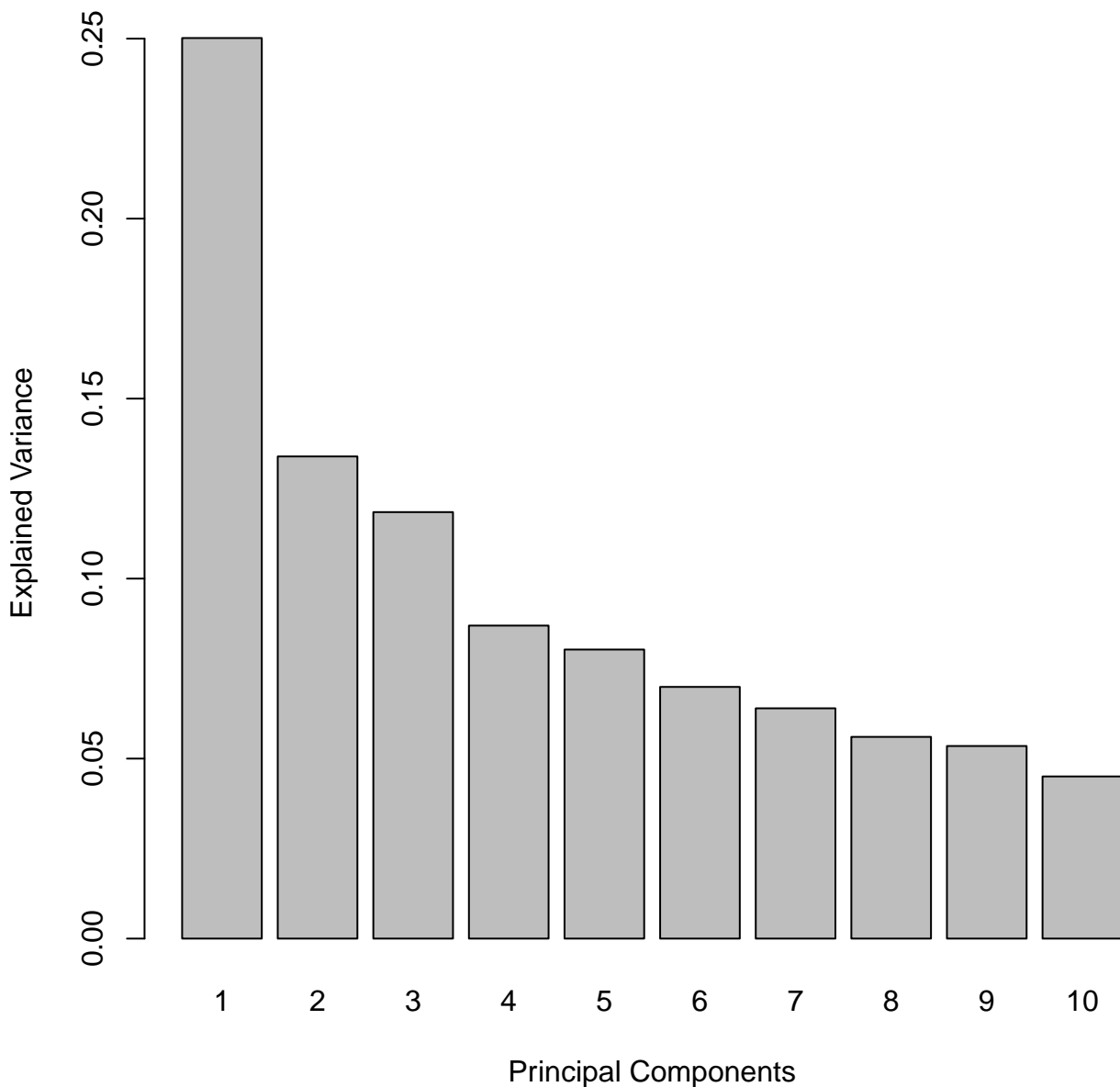
transcriptome missing value proportions for unfiltered data



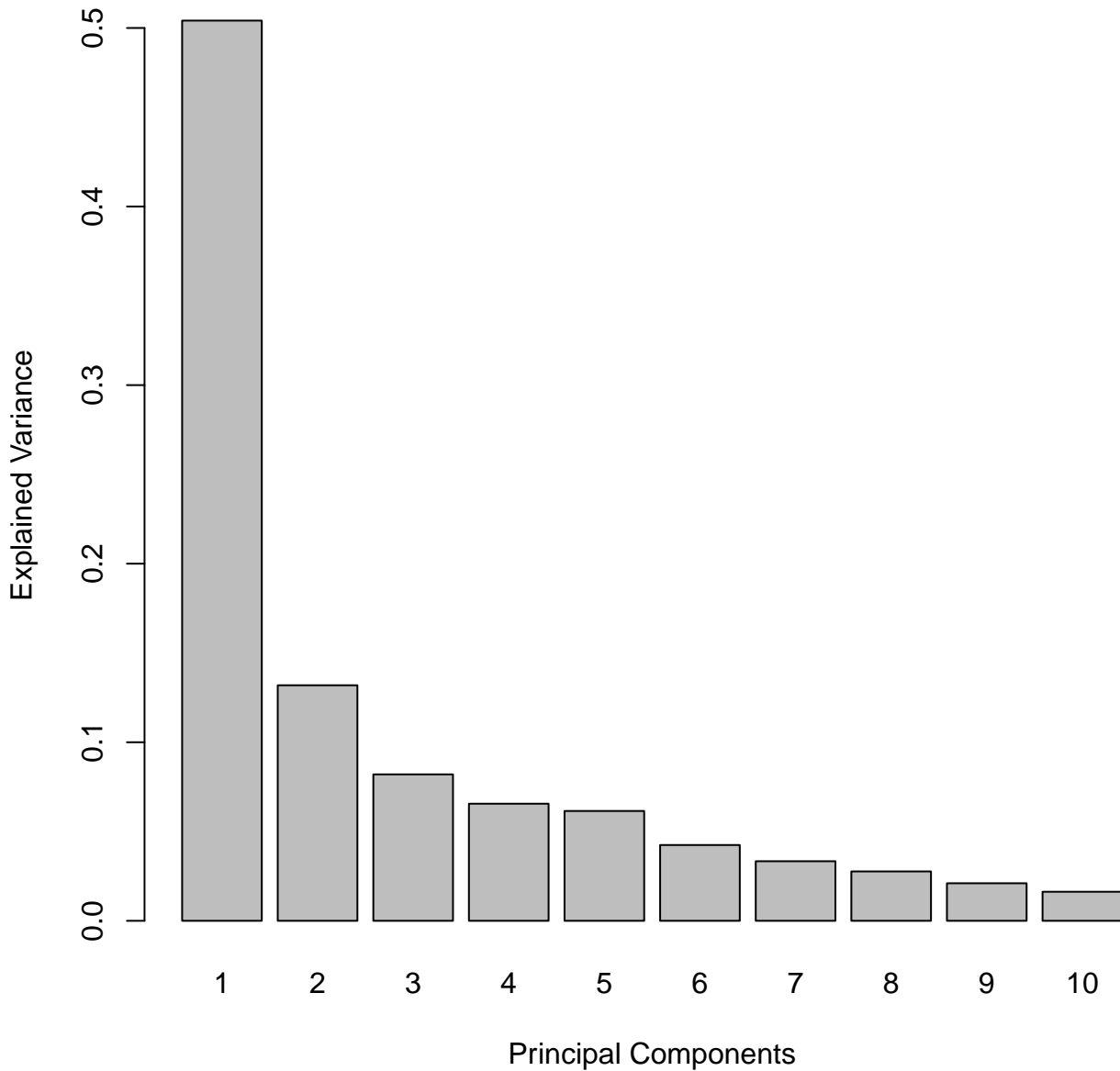
metabolome screeplot



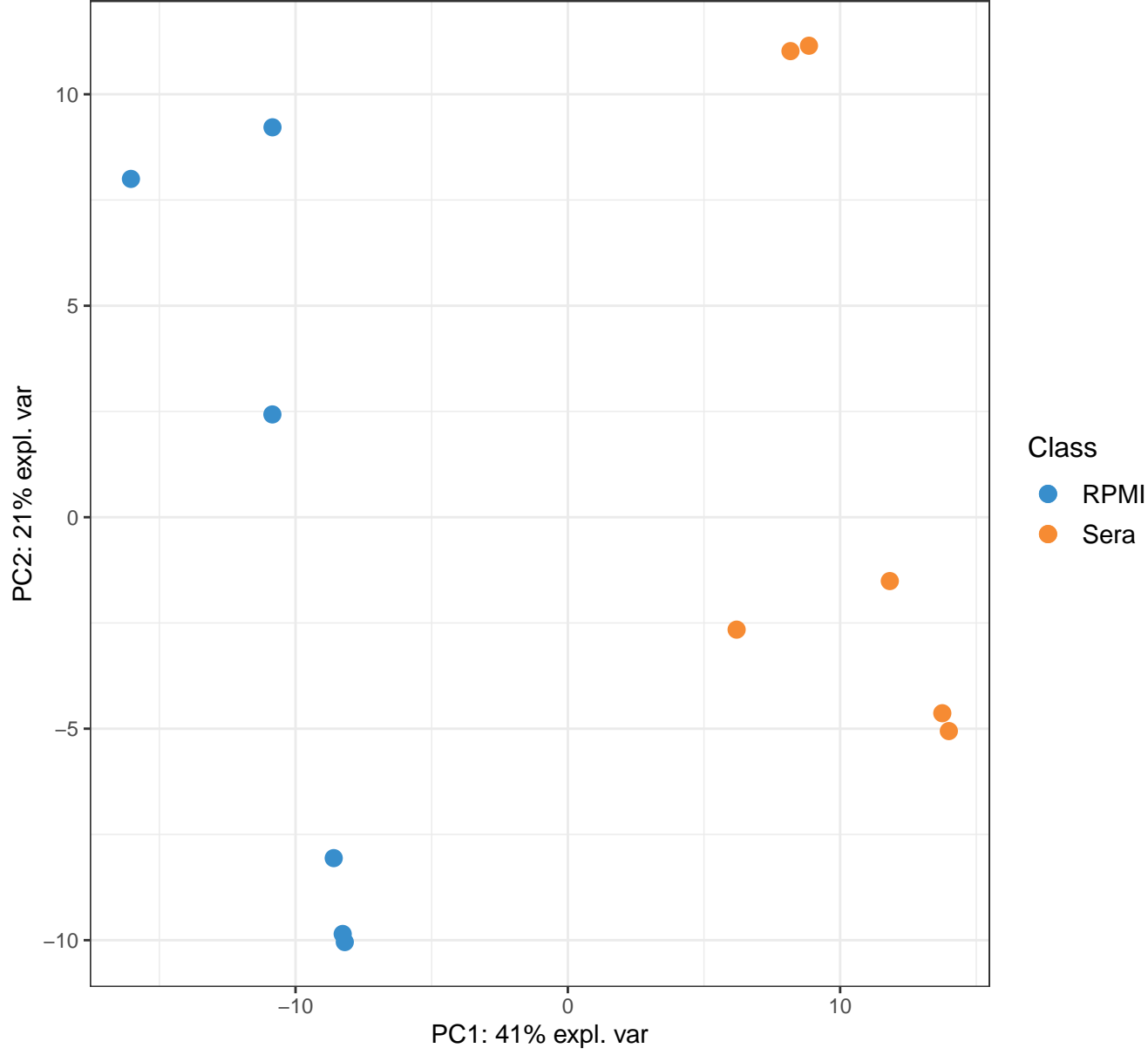
proteome screeplot



transcriptome screeplot

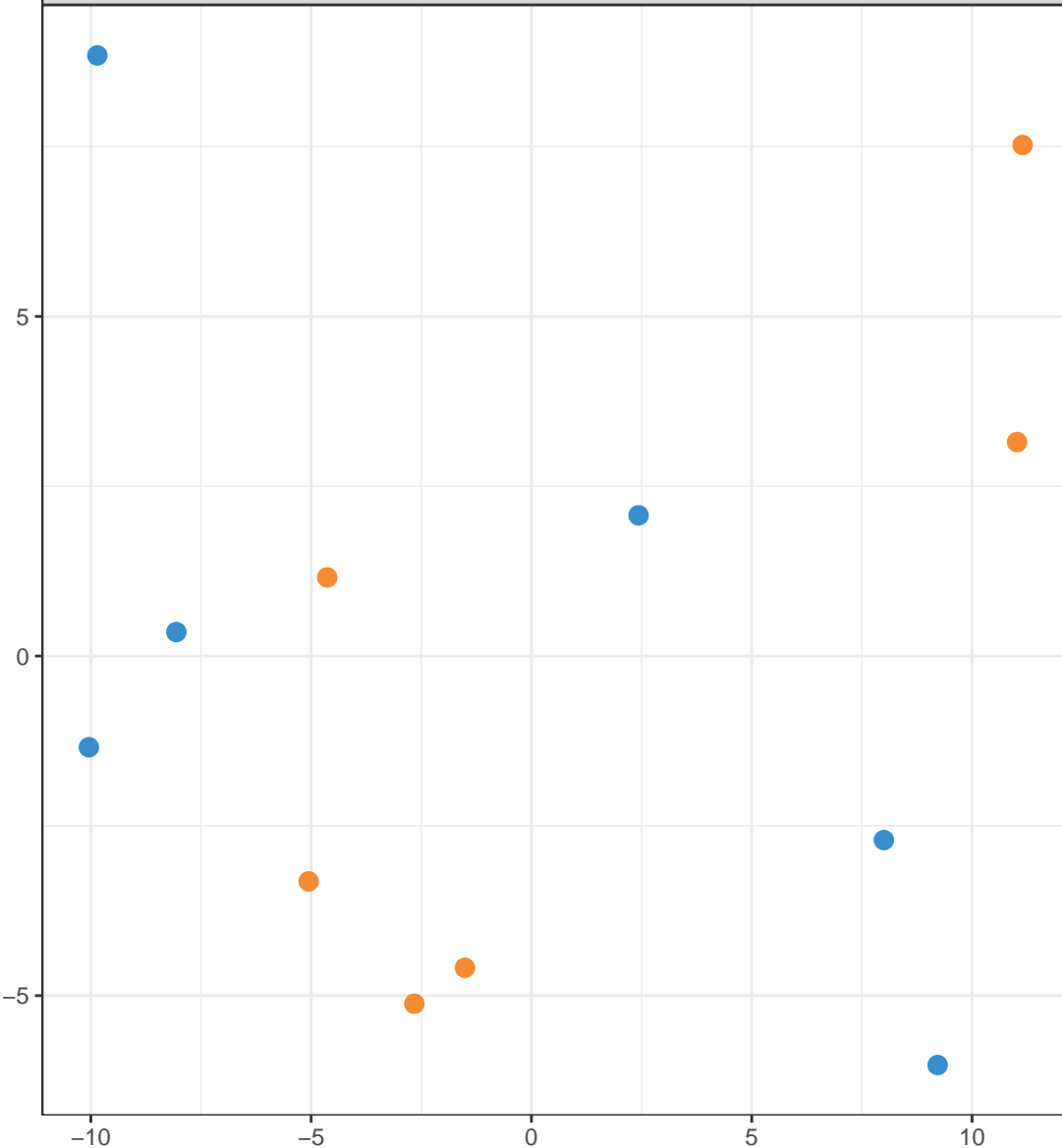


No Impute n_PCs = 10
metabolome PCs (1,2)



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

PC3: 7% expl. var

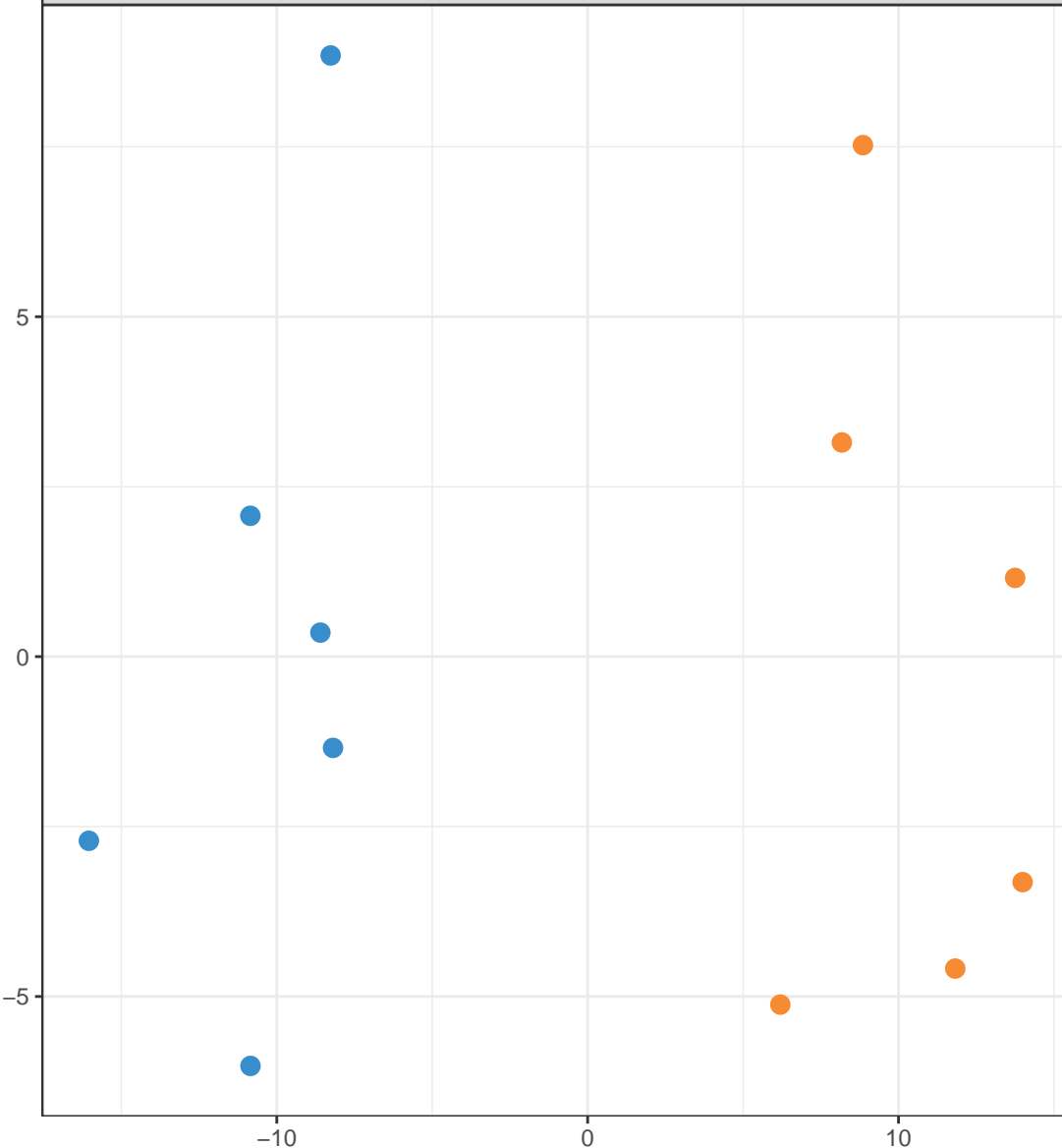


Class

- RPMI
- Sera

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

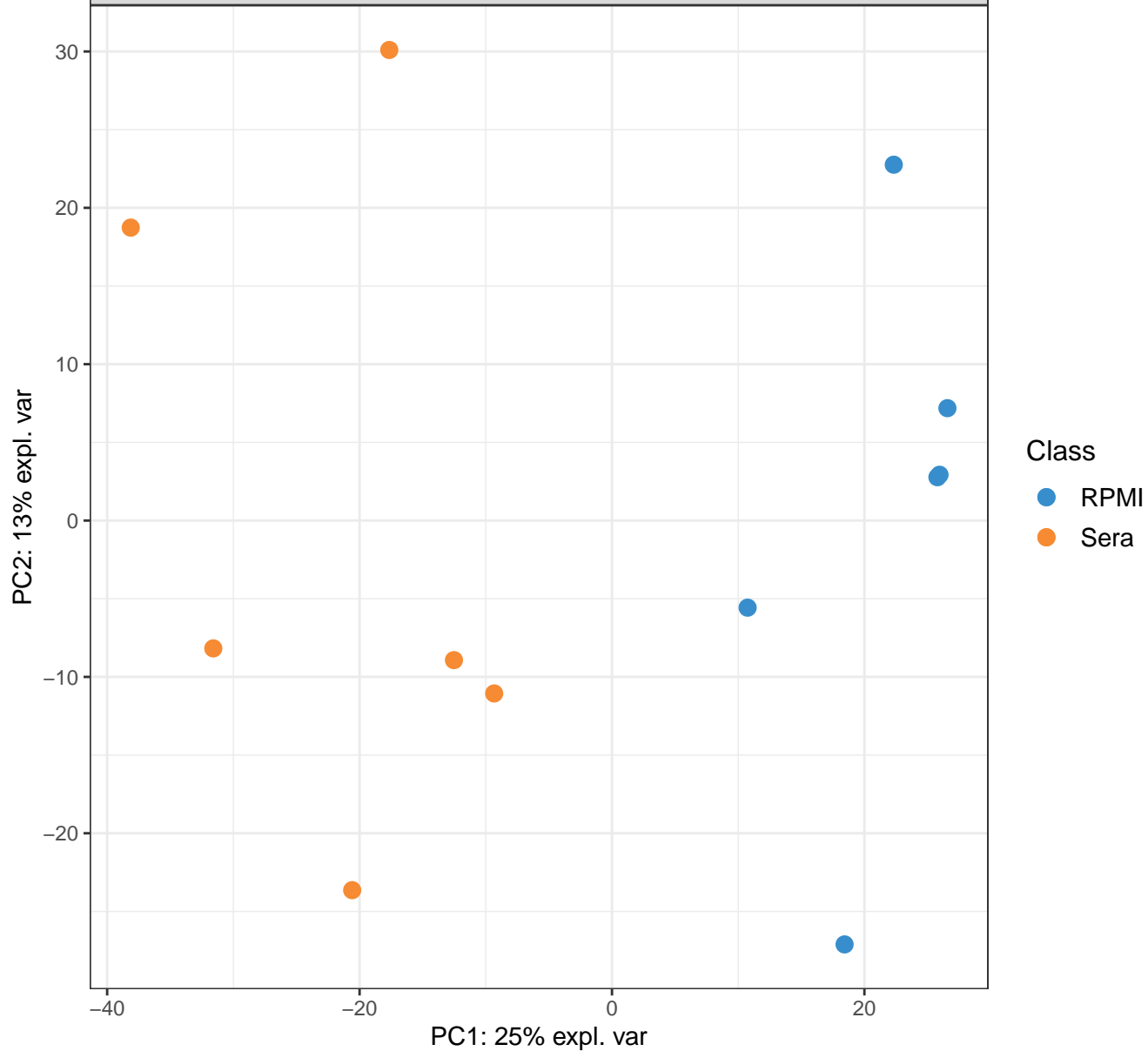
PC3: 7% expl. var



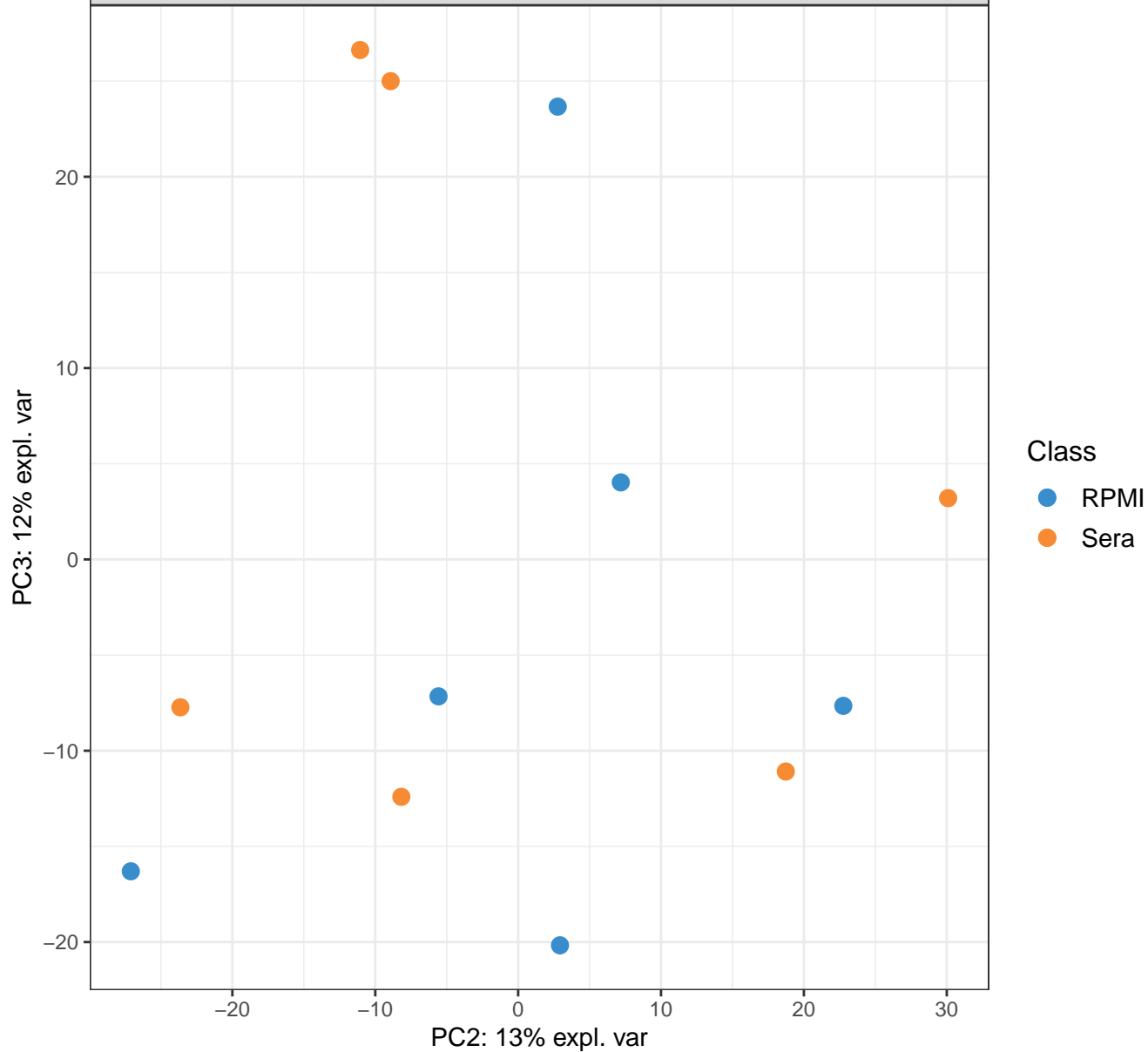
Class

- RPMI
- Sera

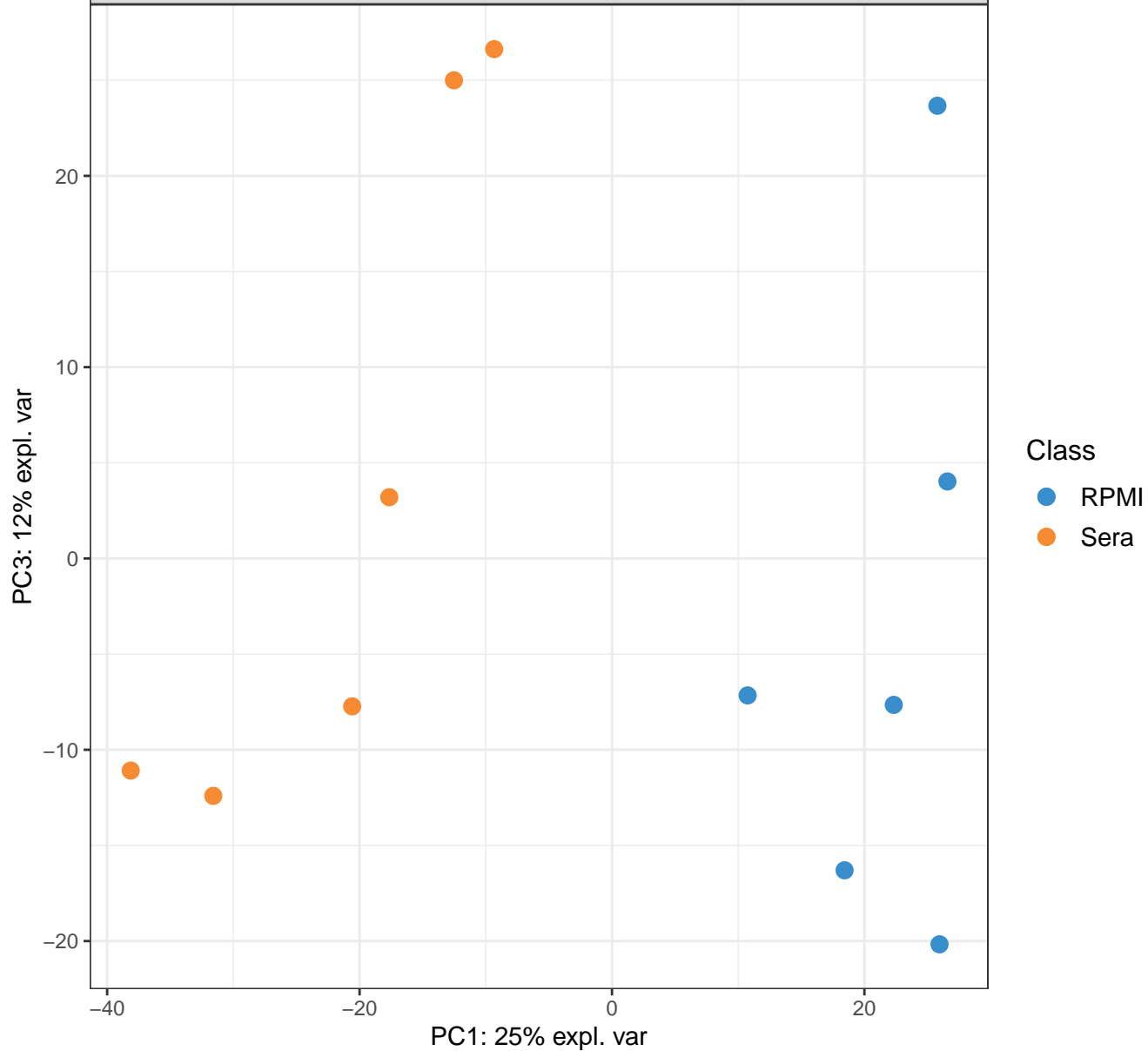
**No Impute n_PCs = 10
proteome PCs (1,2)**



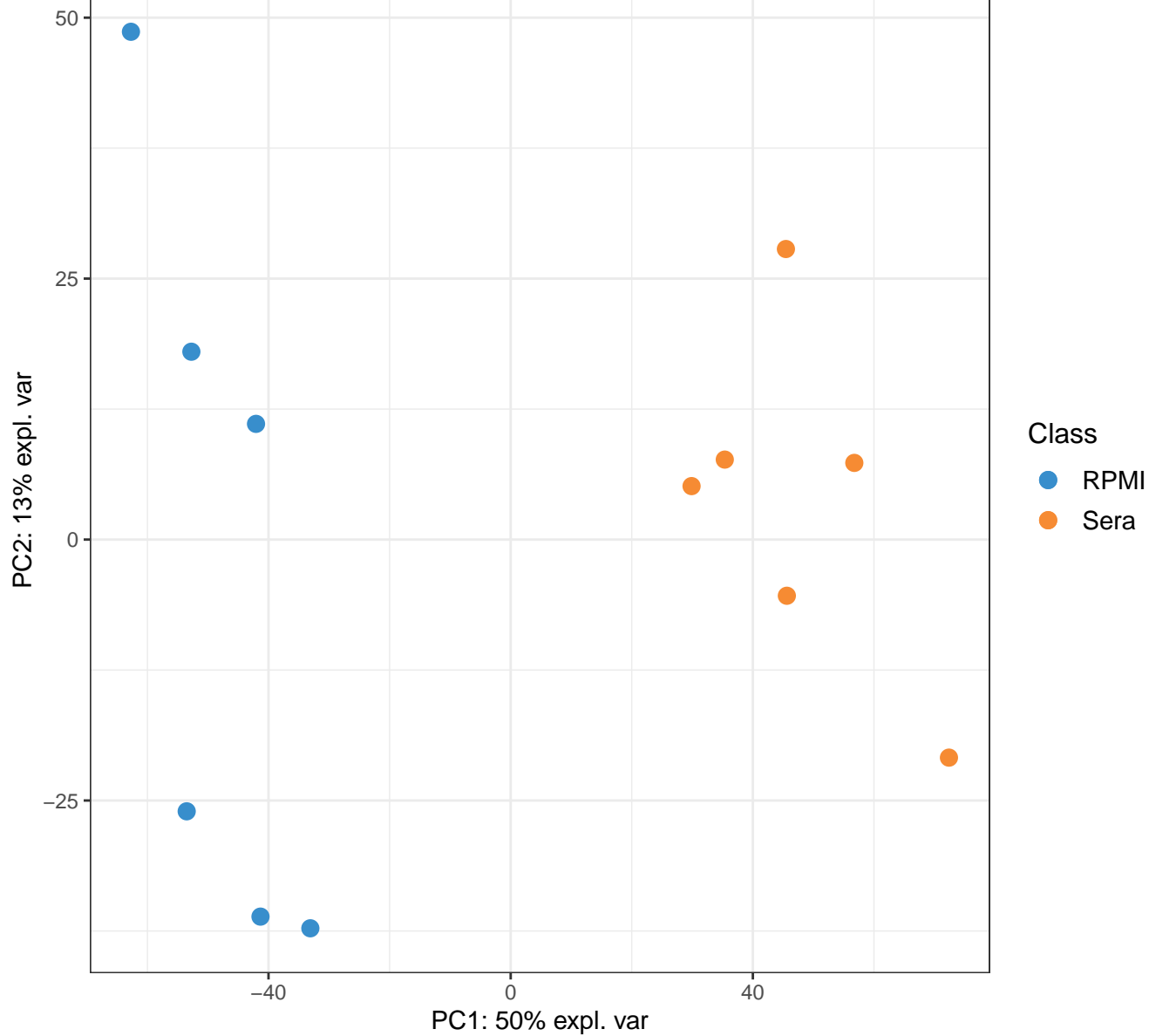
**No Impute n_PCs = 10
proteome PCs (2,3)**



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

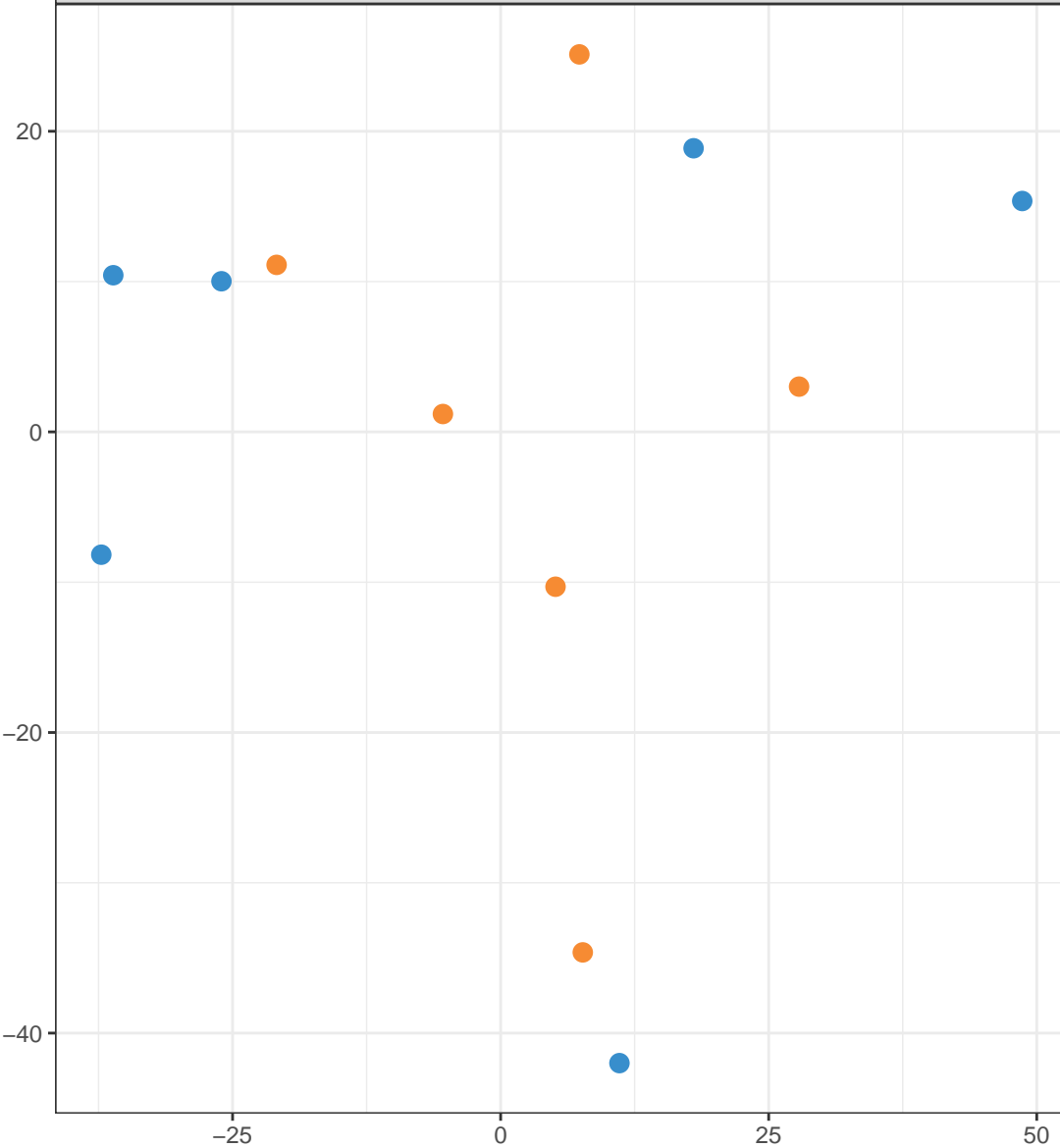


**No Impute n_PCs = 10
transcriptome PCs (1,2)**



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

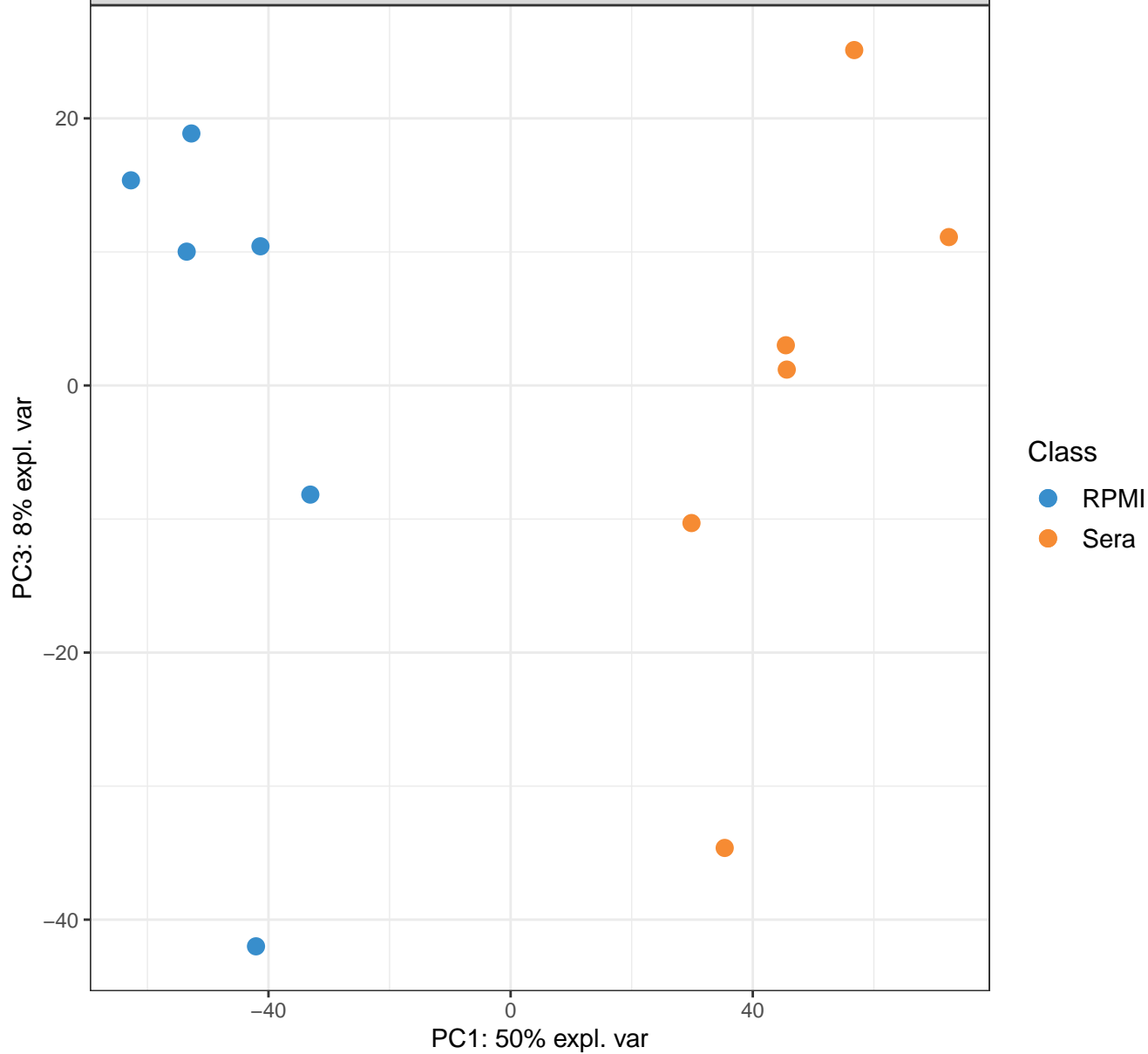
PC3: 8% expl. var



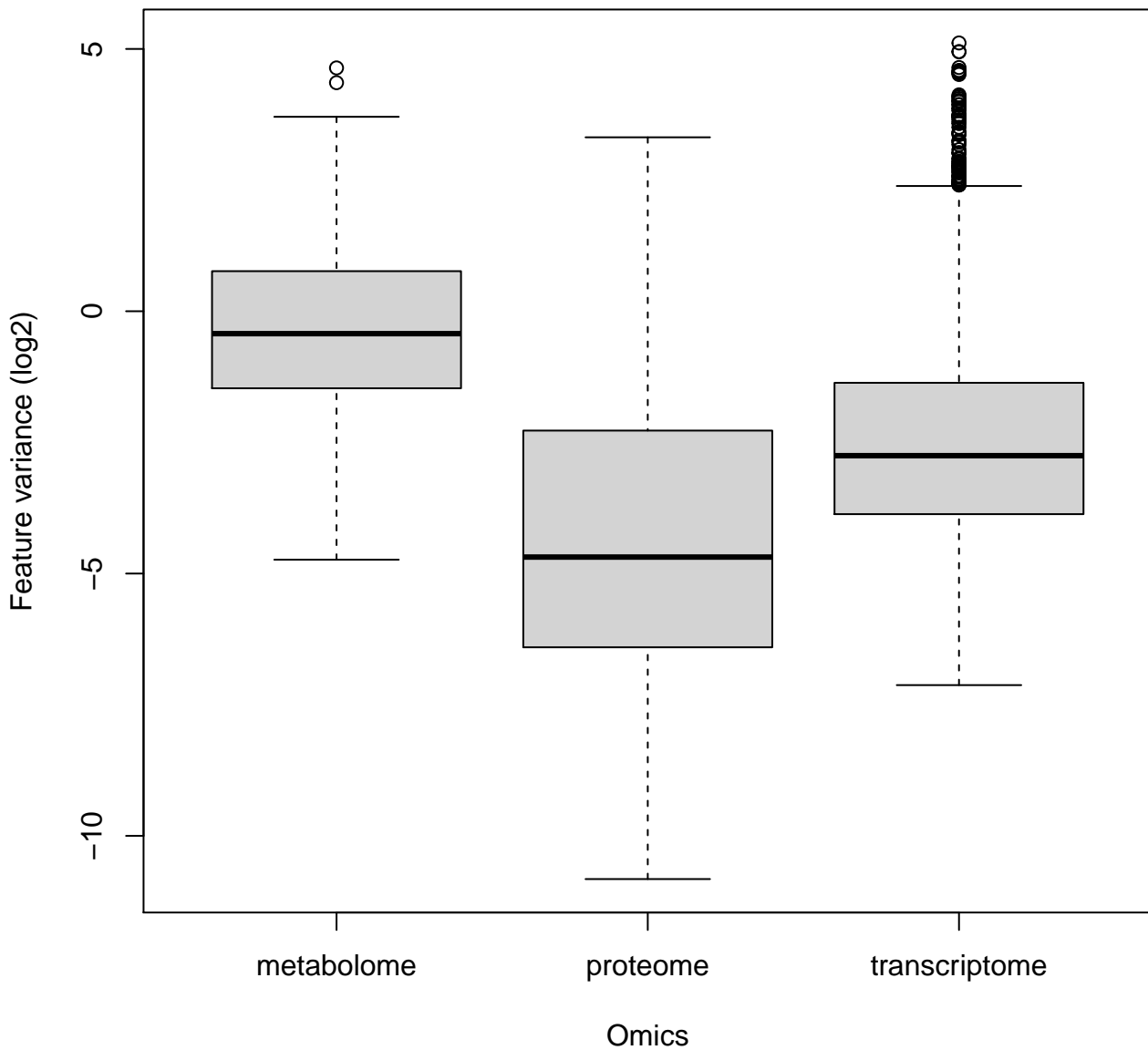
Class

RPMI
Sera

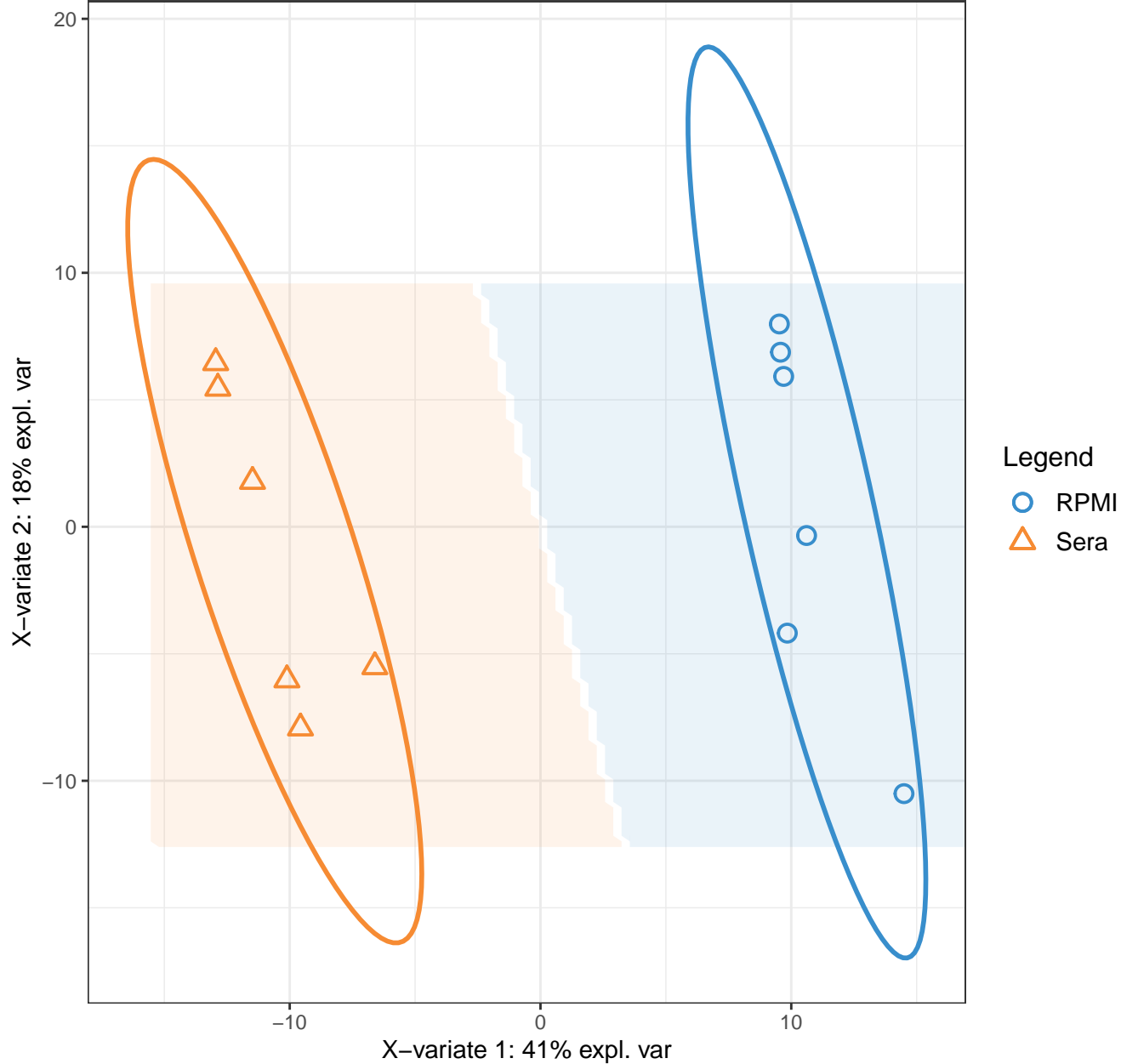
**No Impute n_PCs = 10
transcriptome PCs (1,3)**



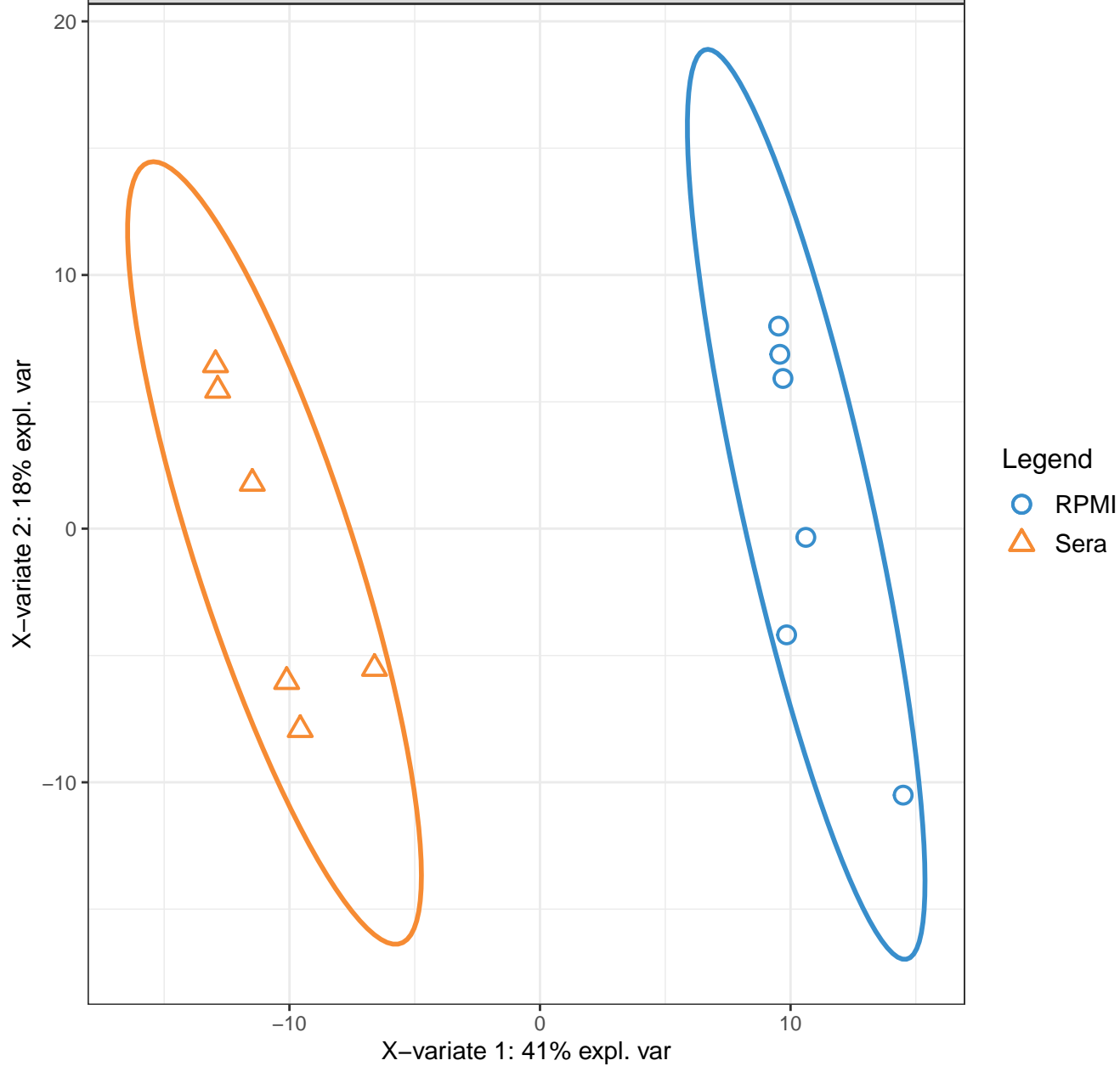
Feature variances (log2) per omics



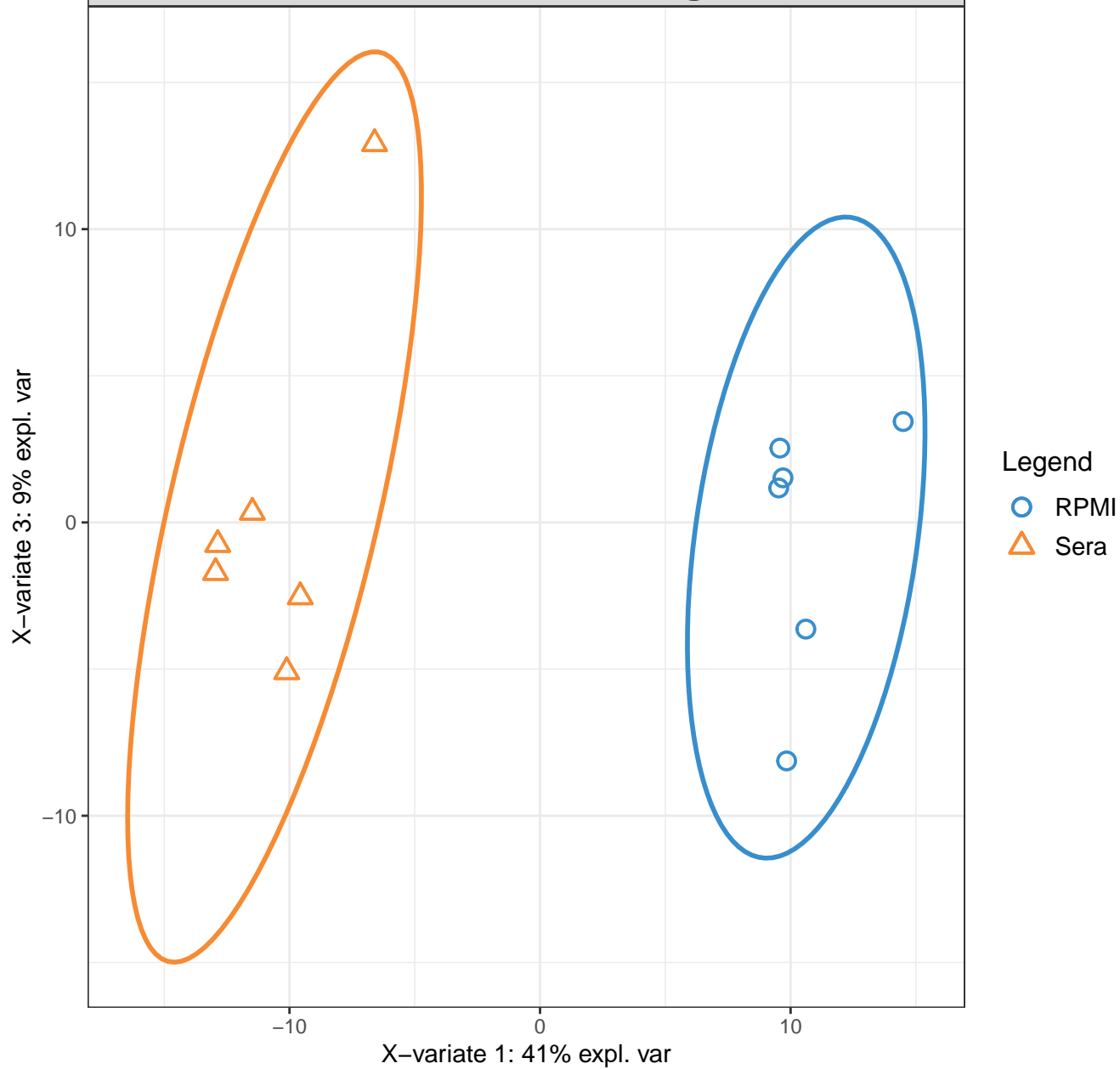
metabolome PLSDA single 1/2



metabolome PLSDA single 1/2



metabolome PLSDA single 1/3



metabolome PLSDA single 2/3

X-variate 3: 9% expl. var

10

0

-10

-10

0

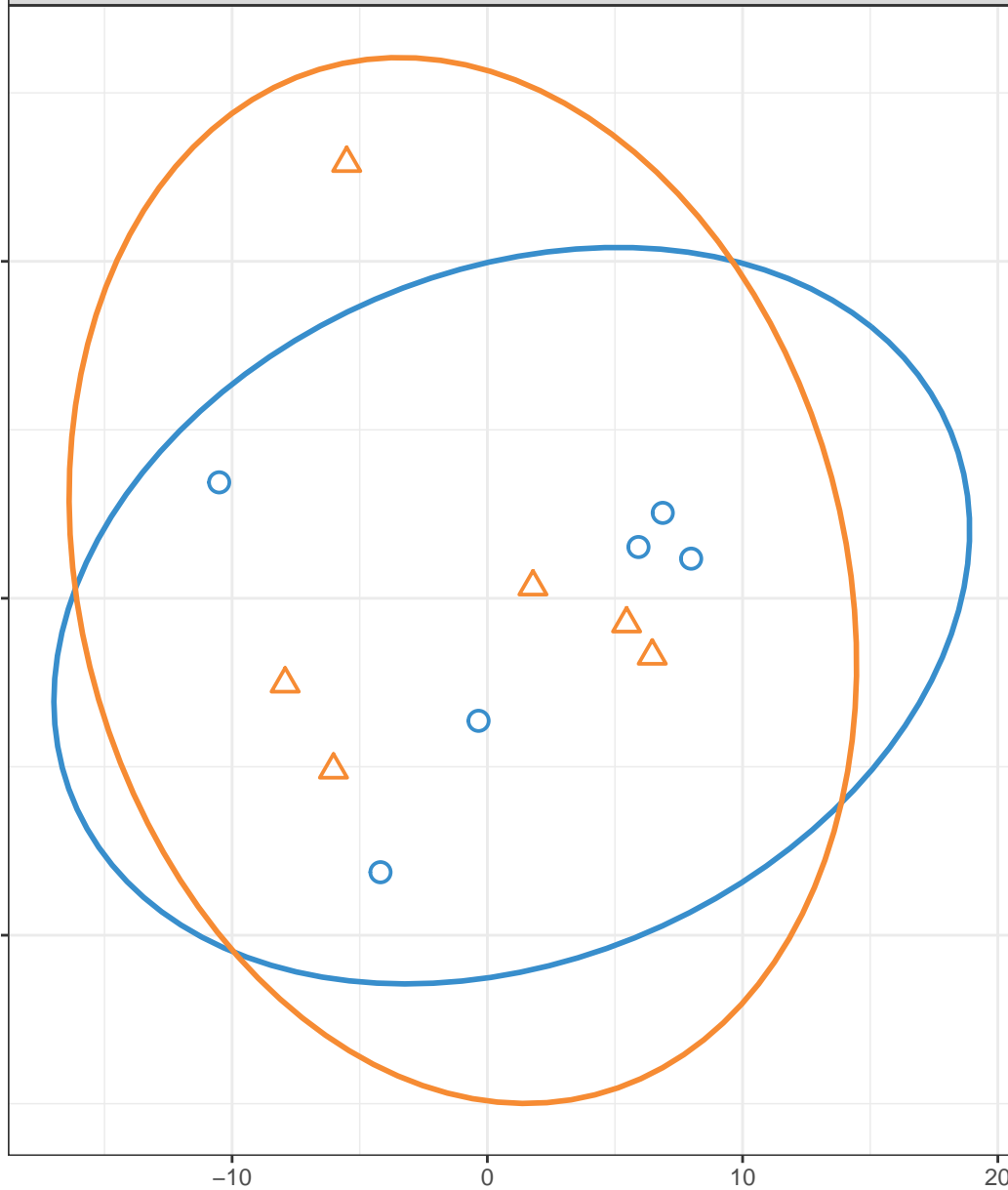
10

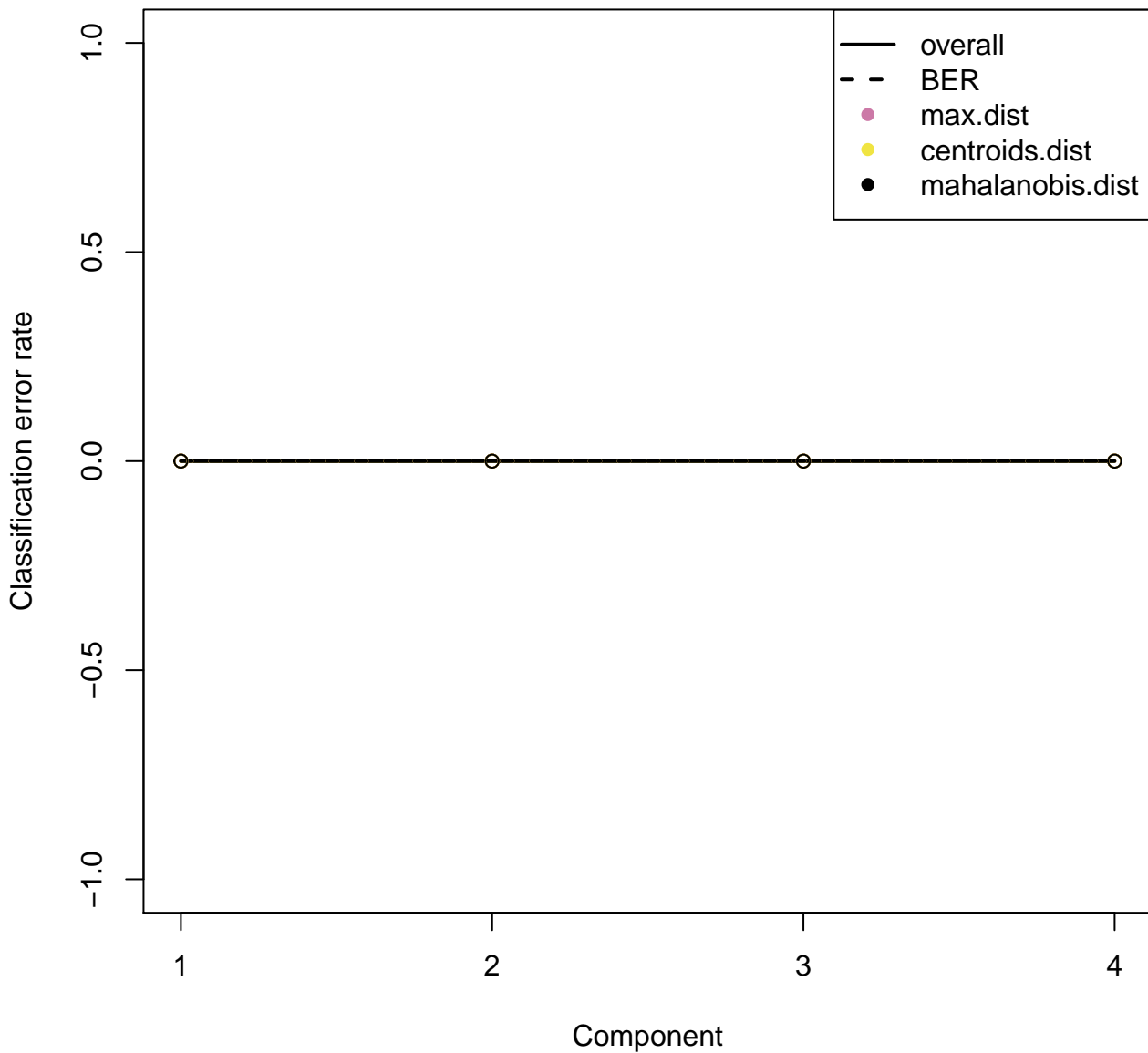
20

X-variate 2: 18% expl. var

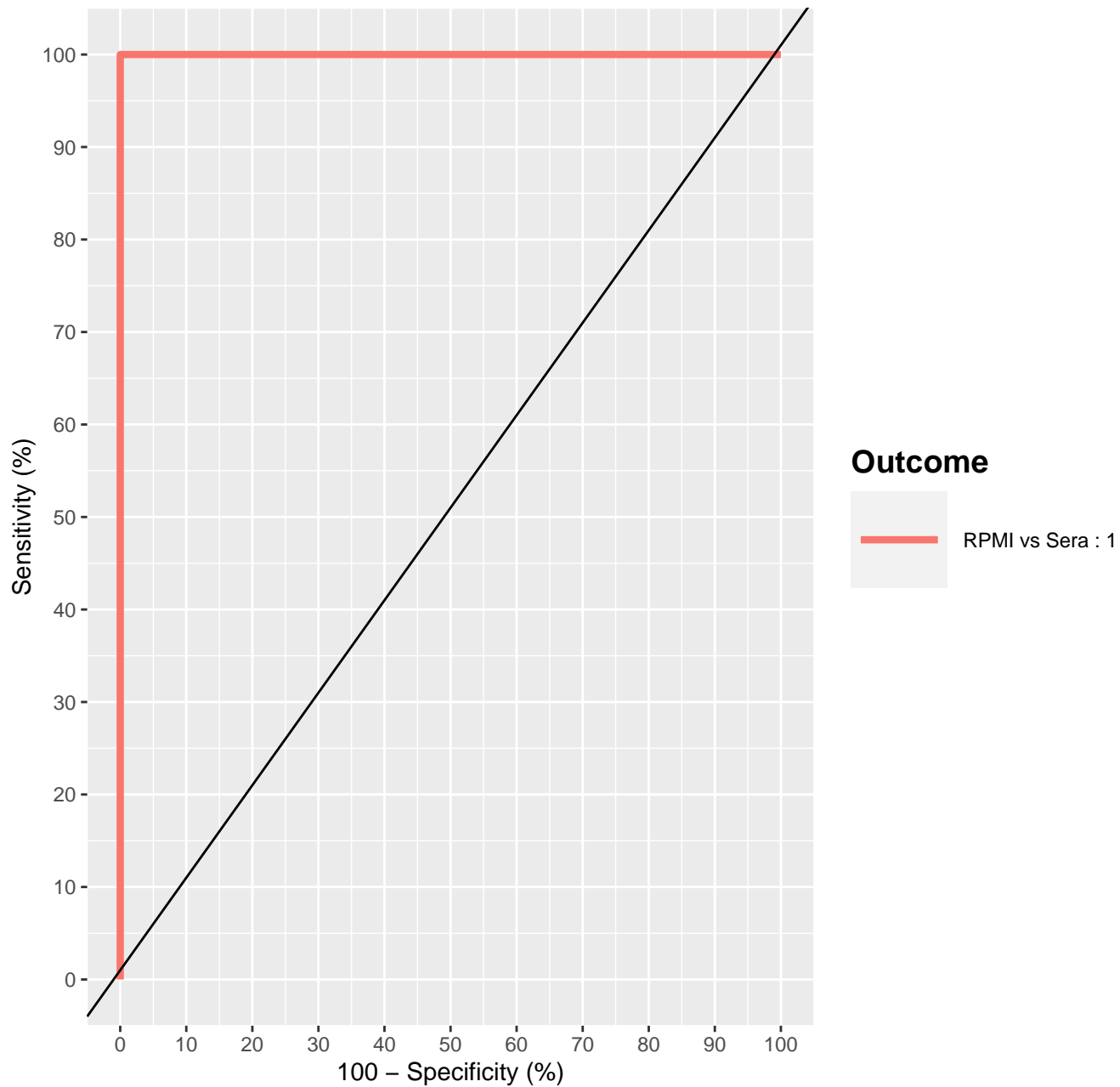
Legend

○ RPMI
△ Sera

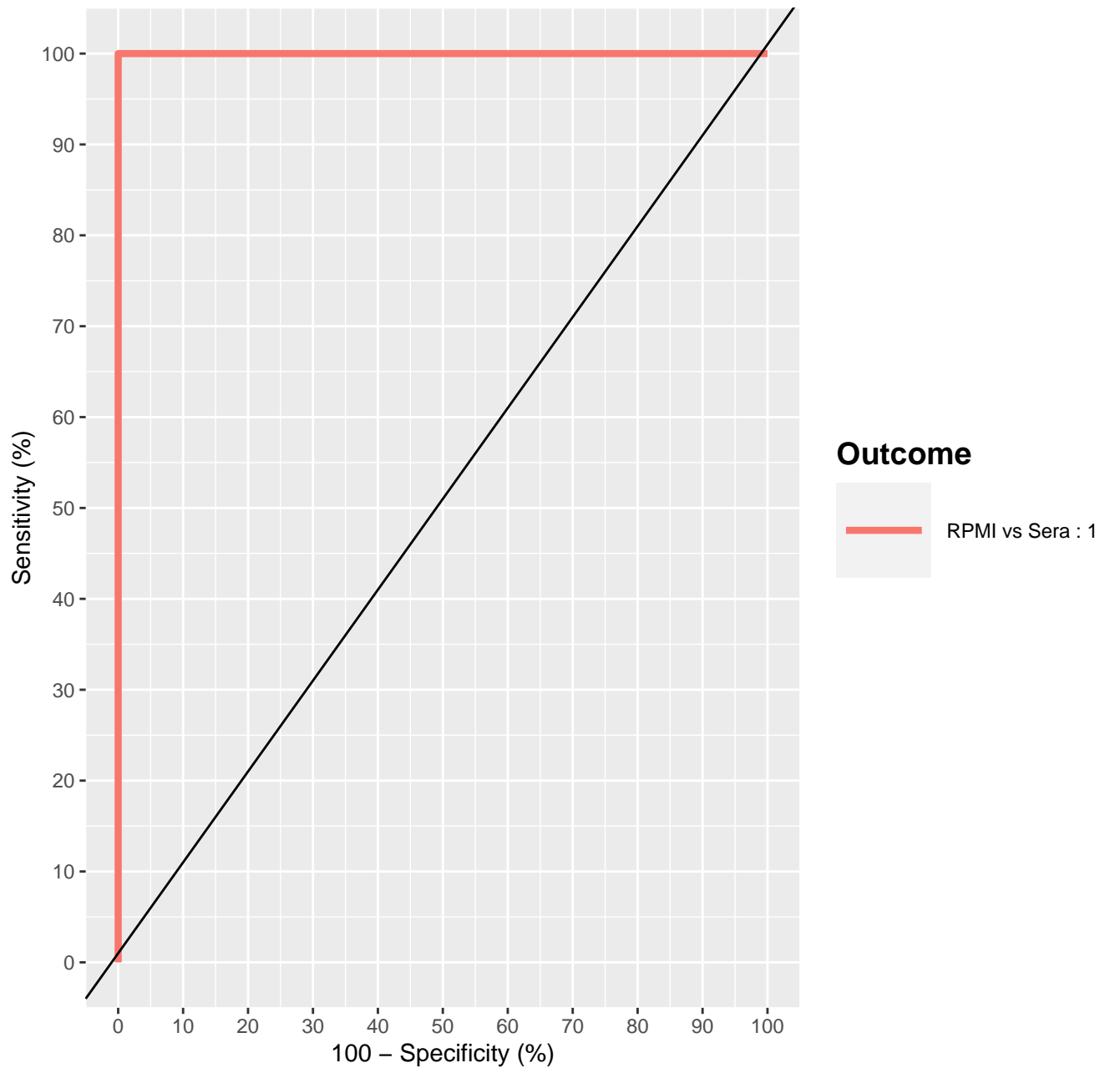




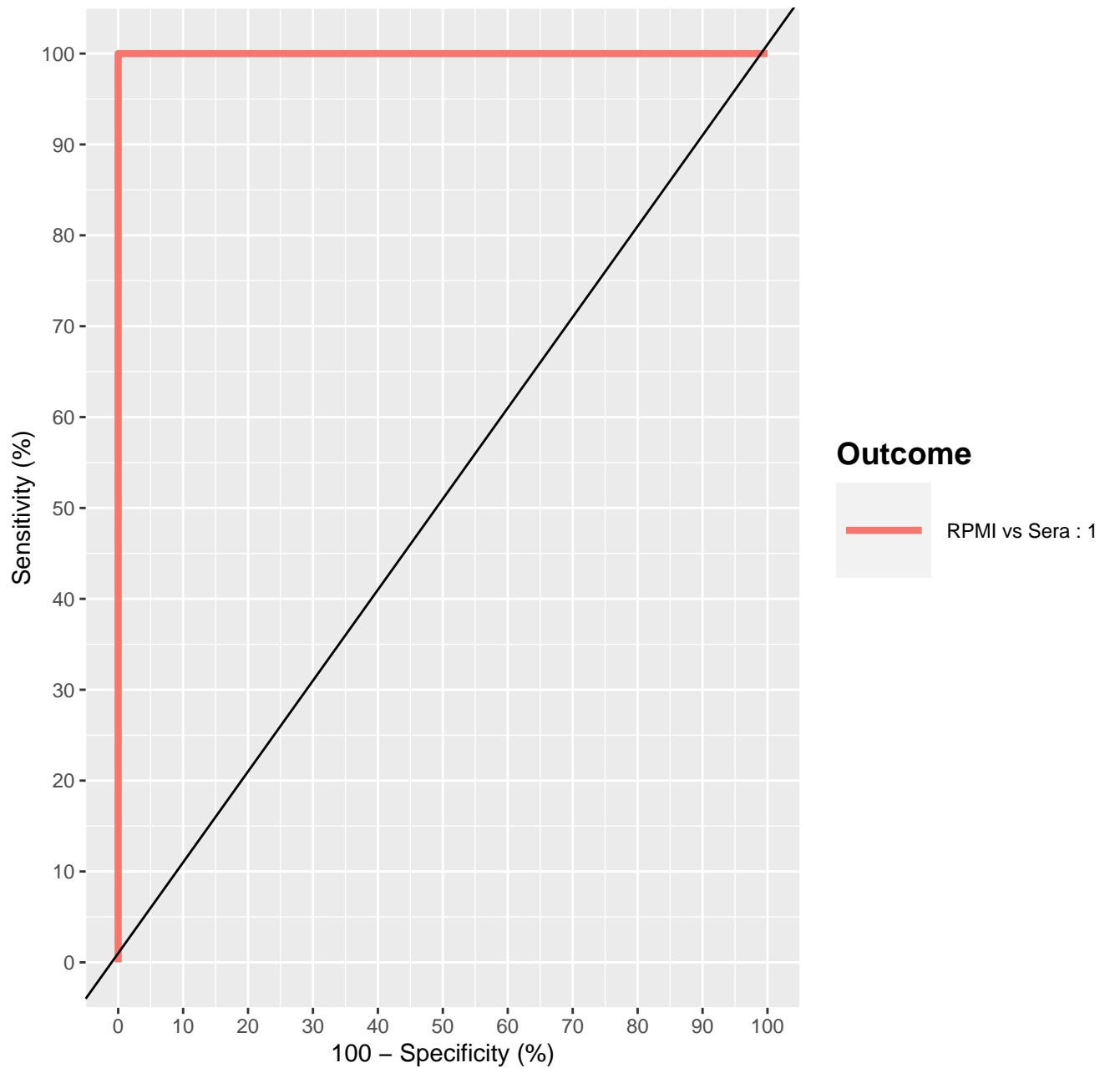
ROC Curve Using Comp(s): 1



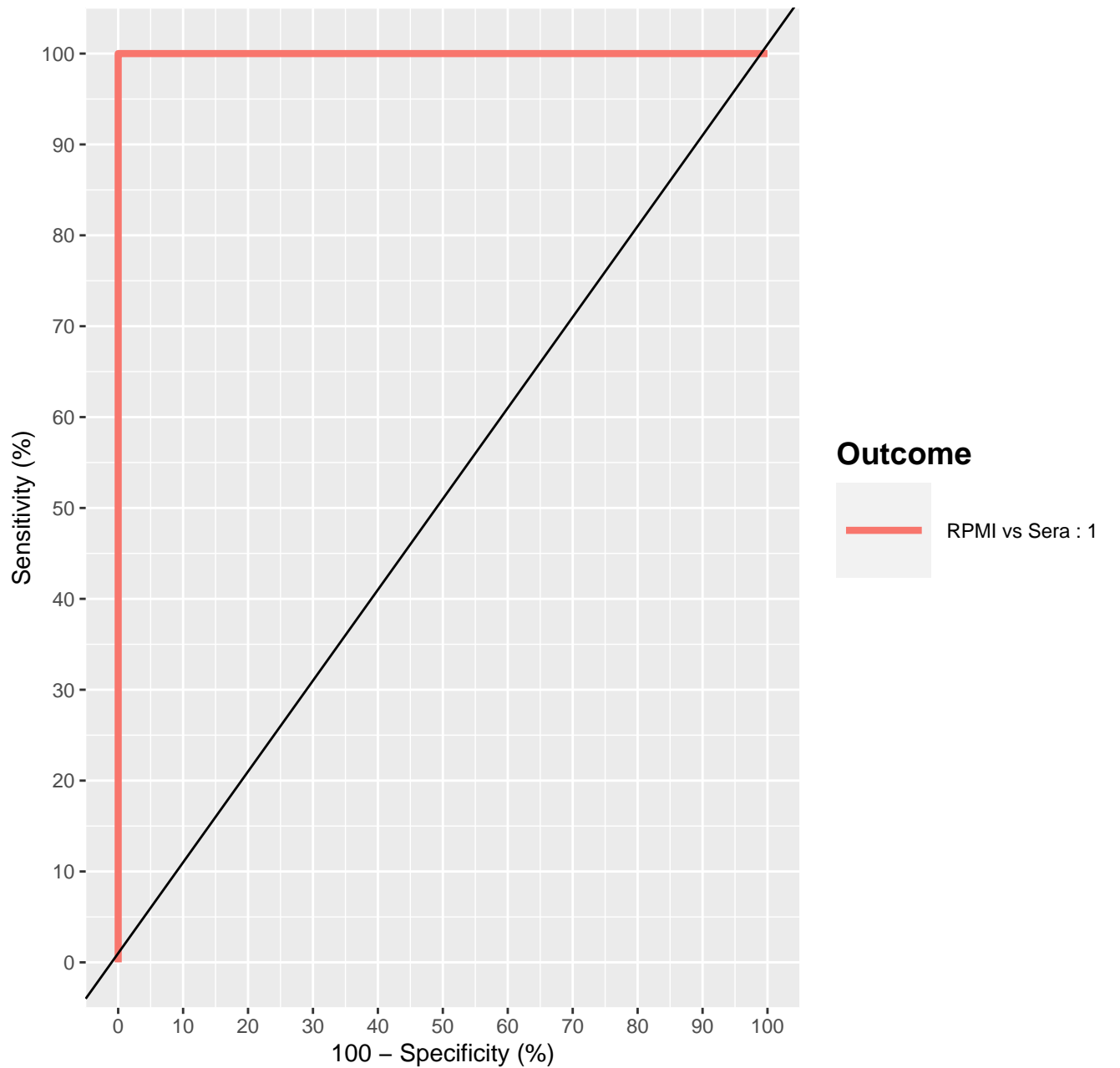
ROC Curve Using Comp(s): 1, 2



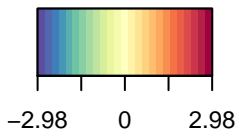
ROC Curve Using Comp(s): 1, 2, 3



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



Color key

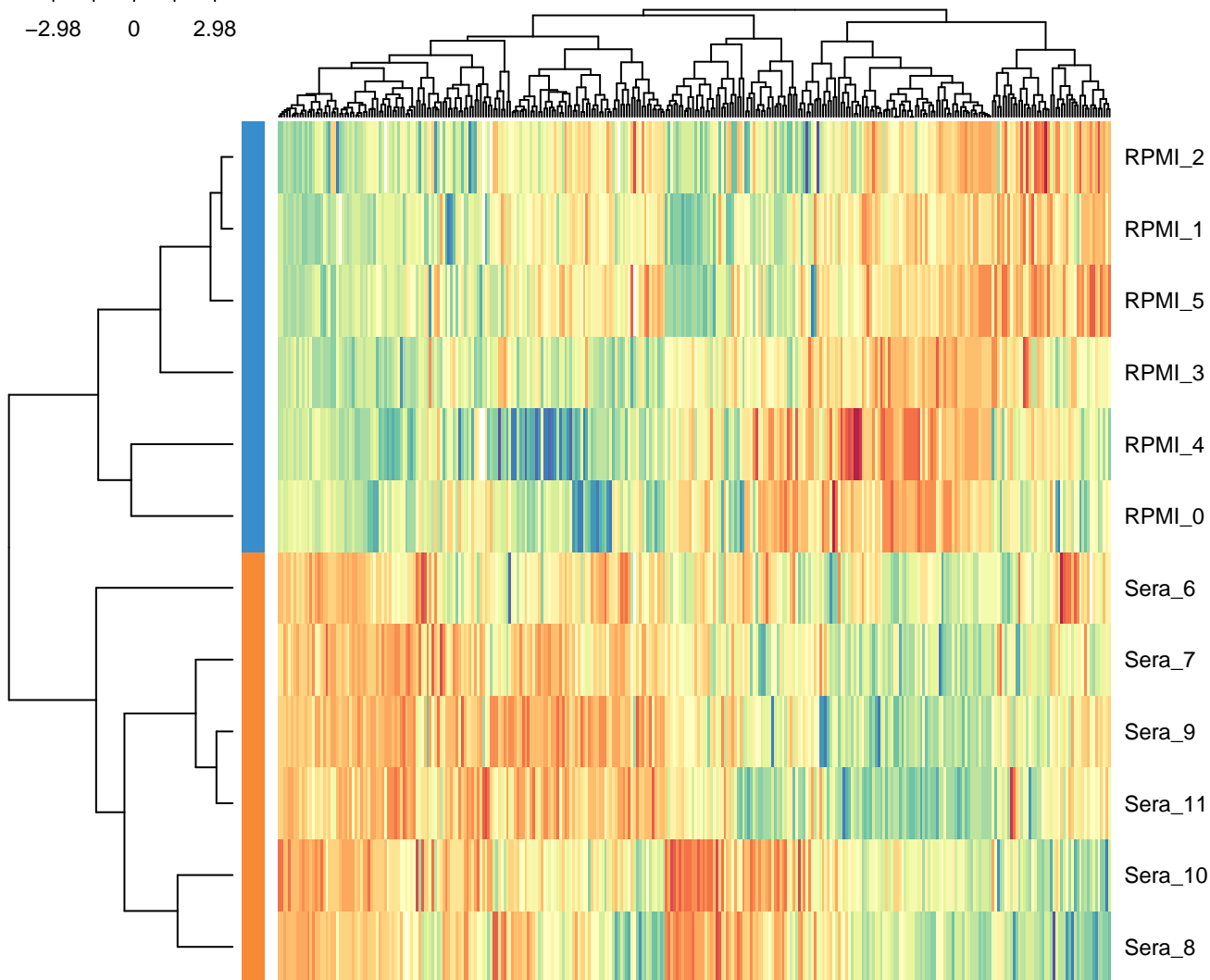


PLSDA

Status

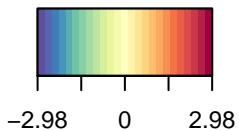
■ RPMI

■ Sera



PLSDA Component 1

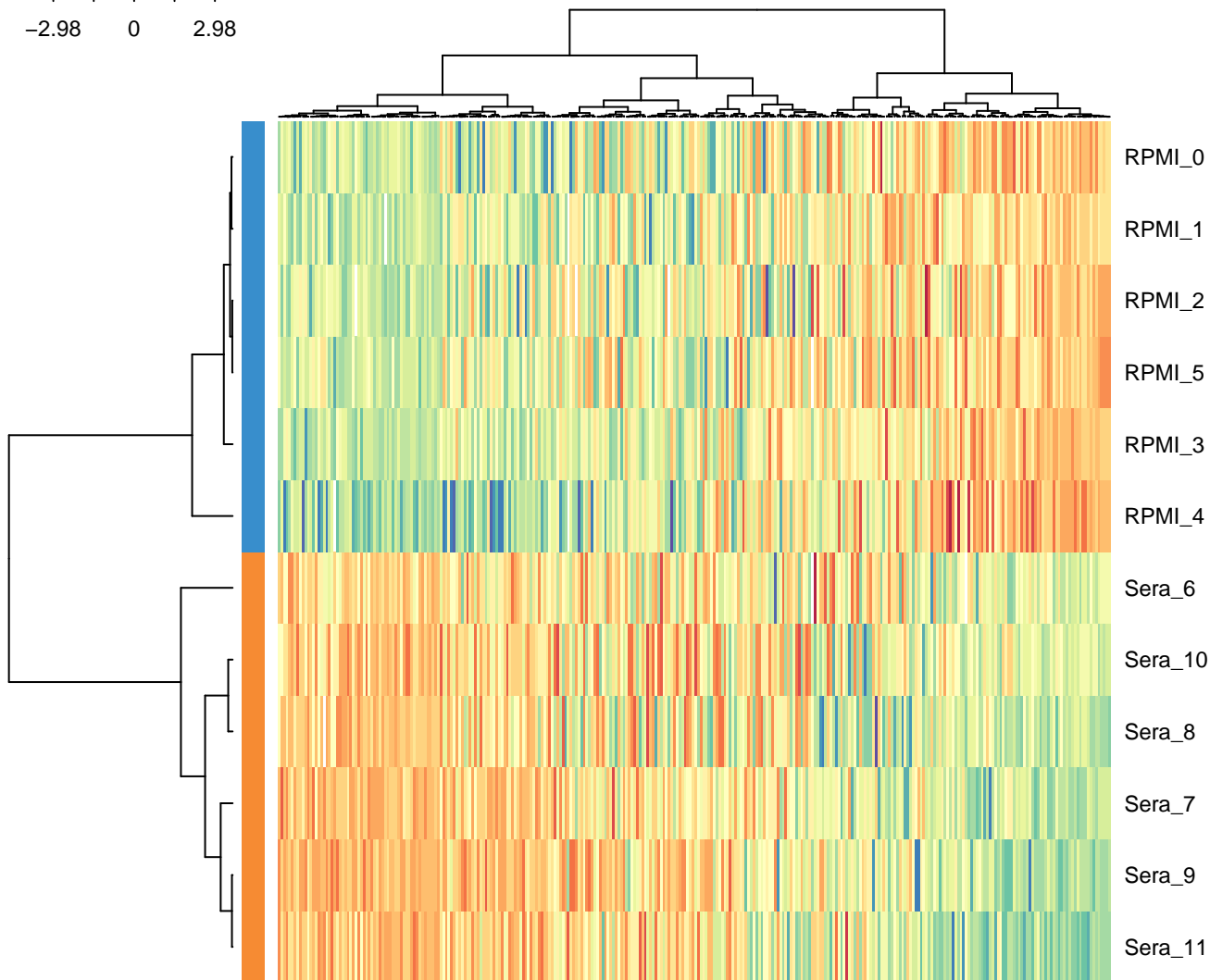
Color key



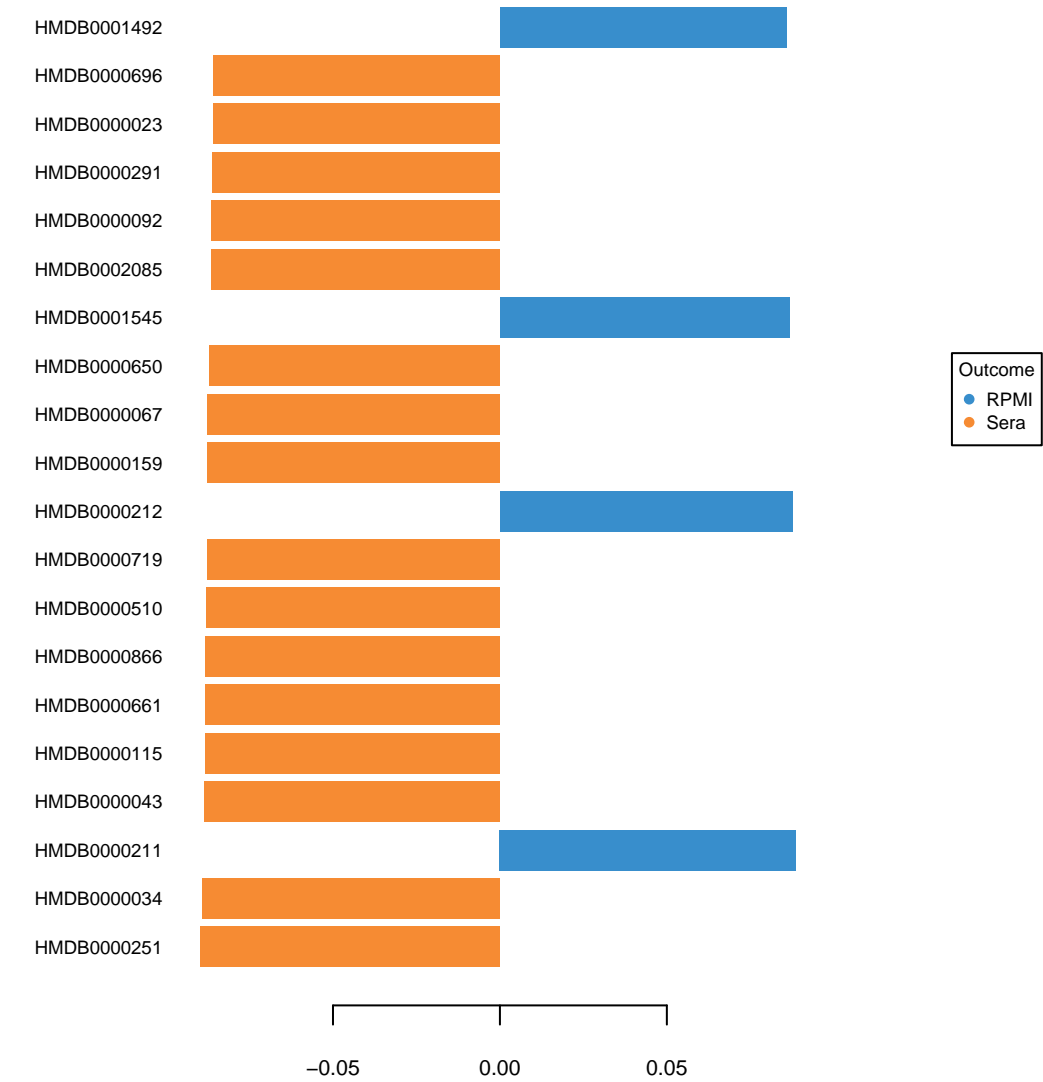
Status

RPMI

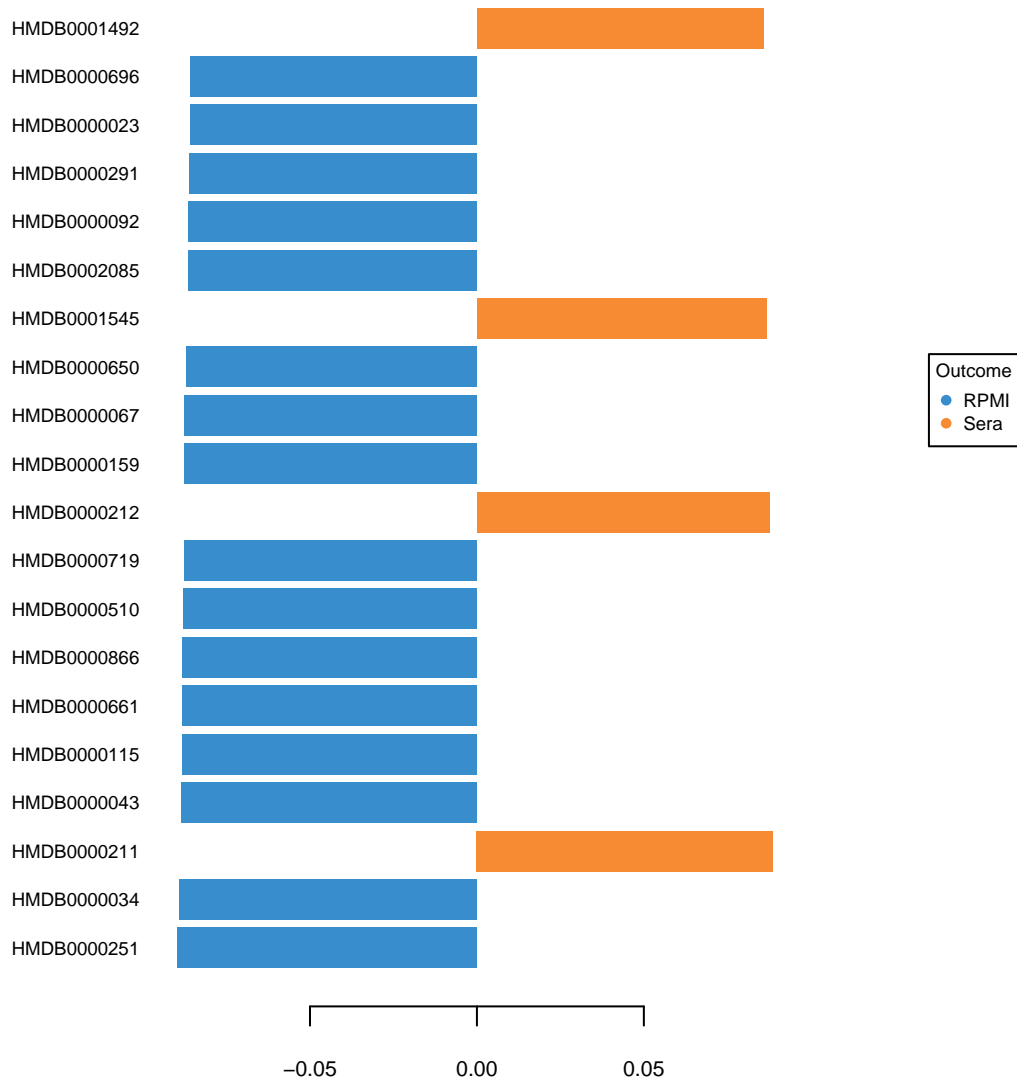
Sera



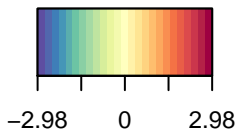
metabolome 1 PLSDA max load



metabolome 1 PLSDA min load



Color key

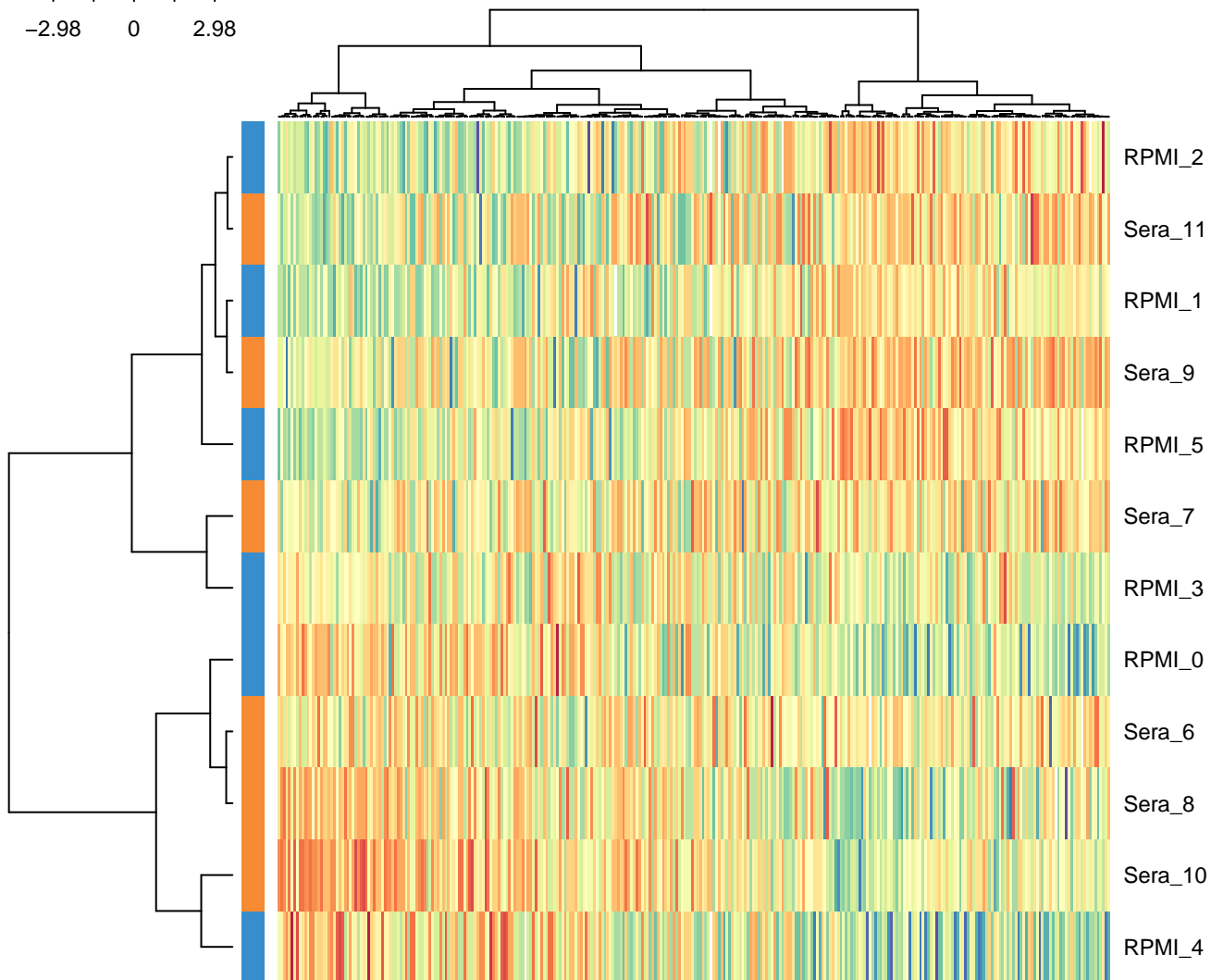


PLSDA Component 2

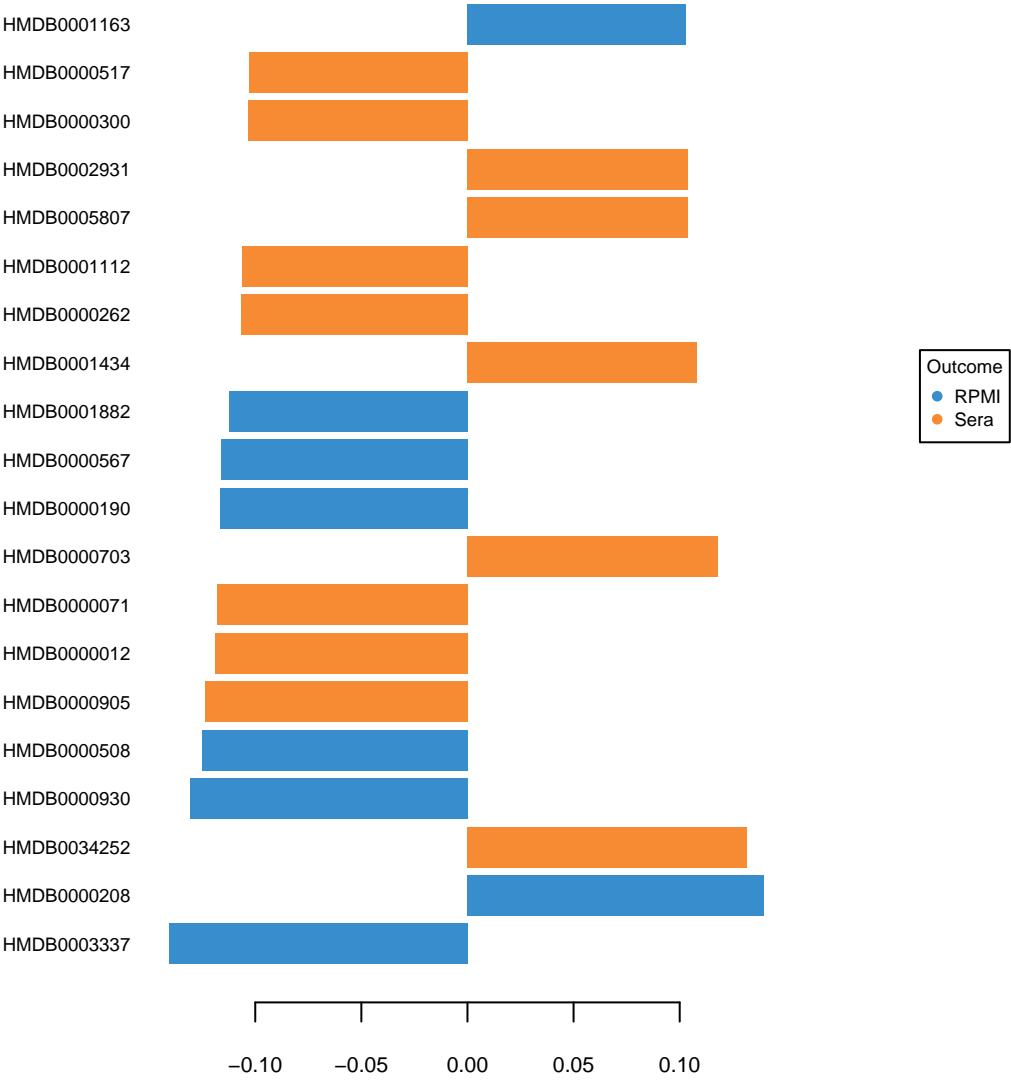
Status

RPMI

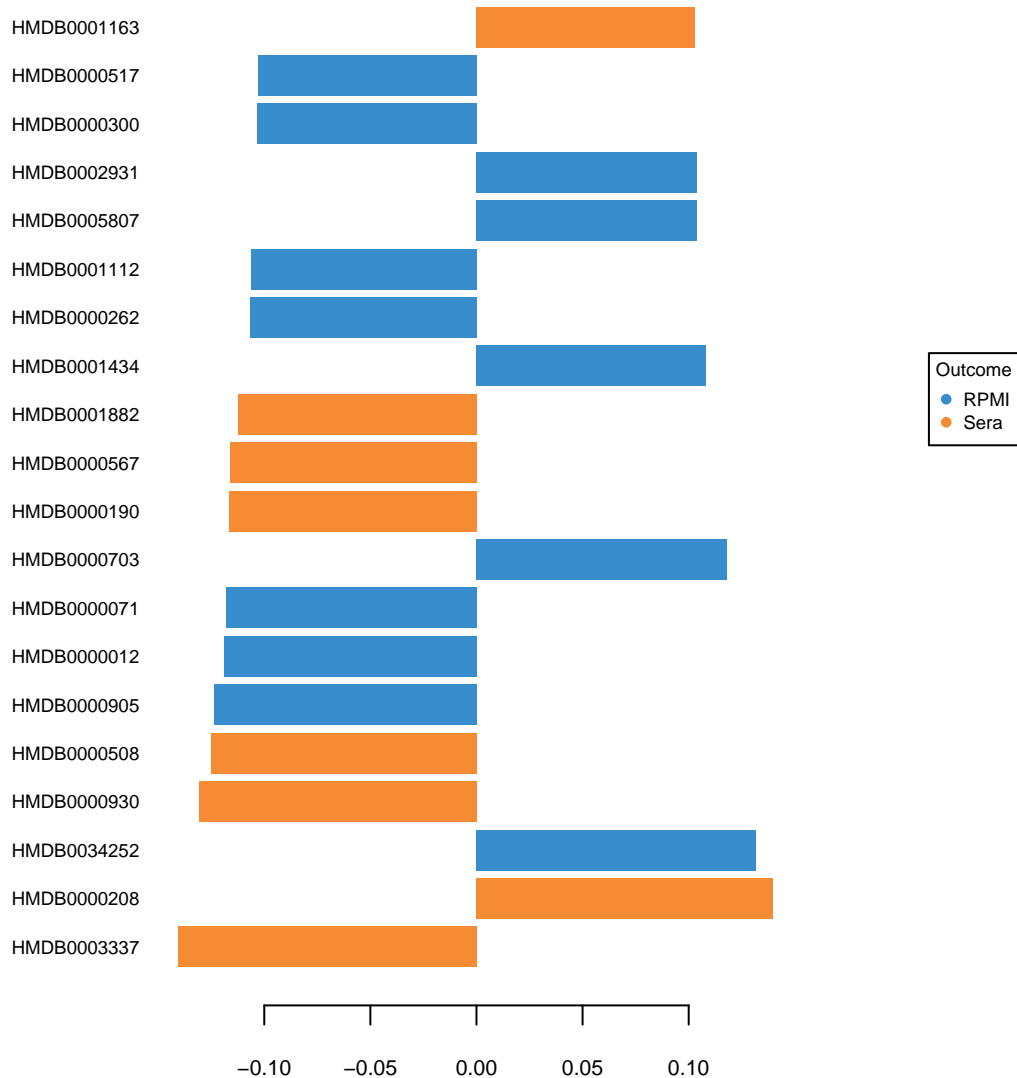
Sera



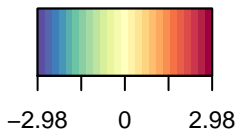
metabolome 2 PLSDA max load



metabolome 2 PLSDA min load



Color key

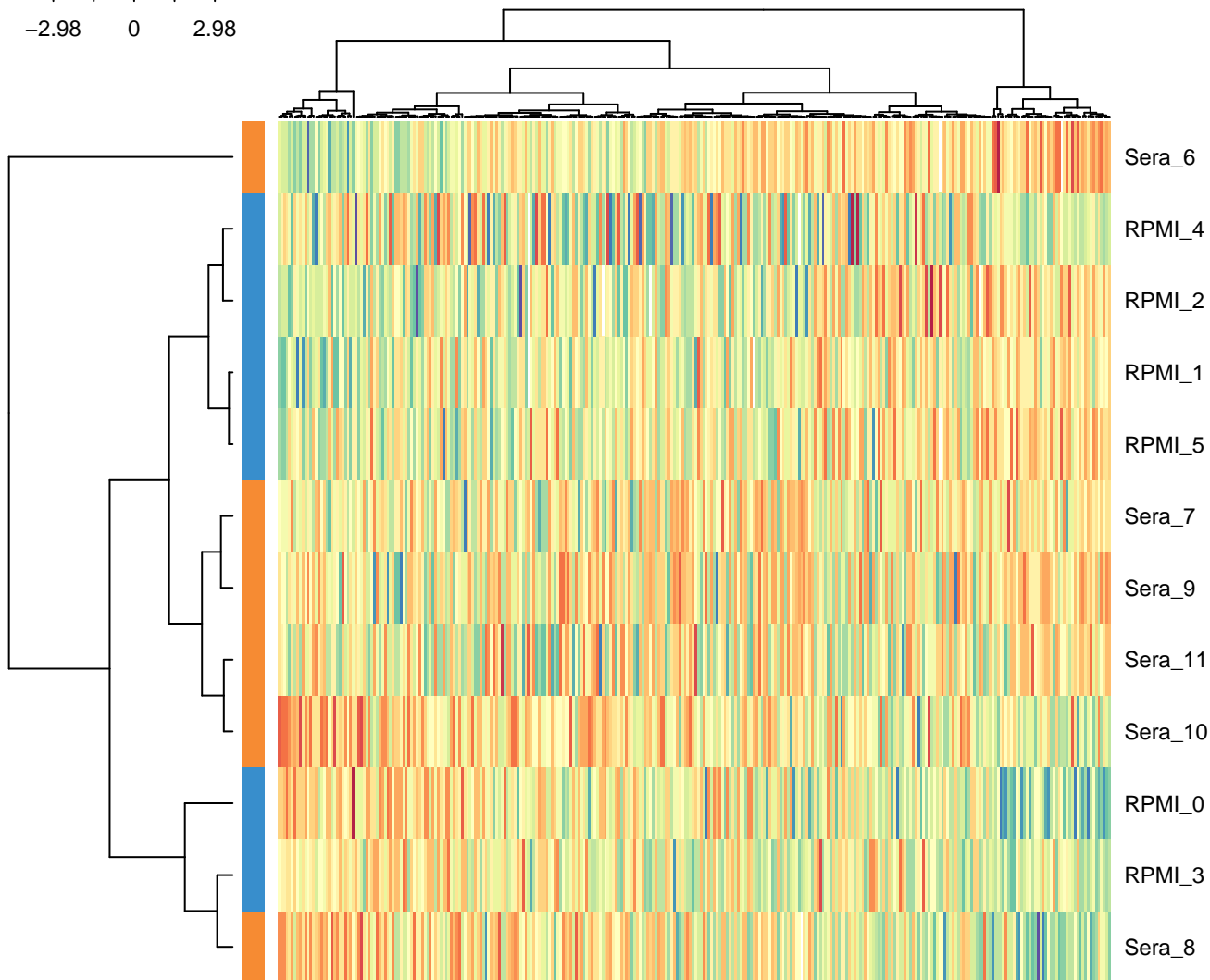


PLSDA Component 3

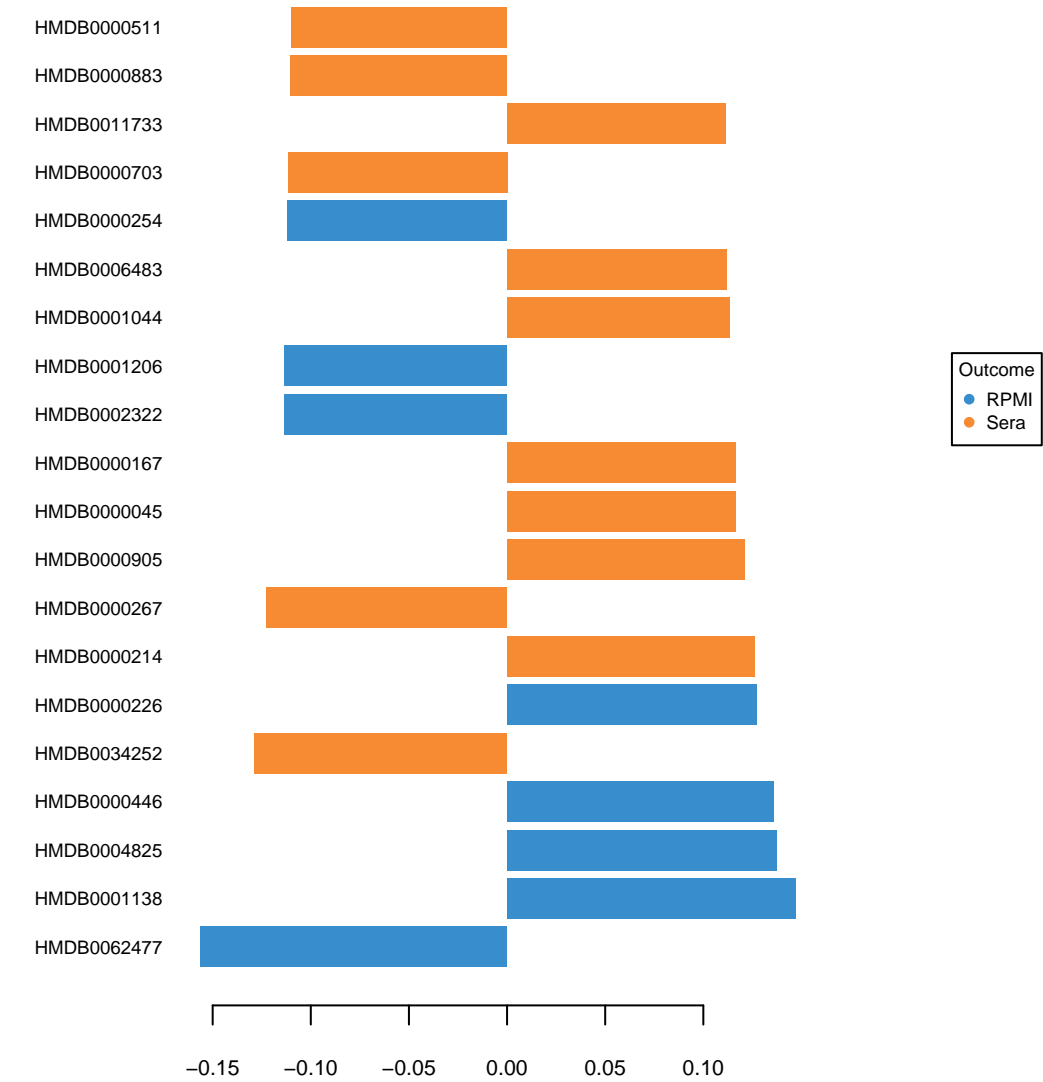
Status

RPMI

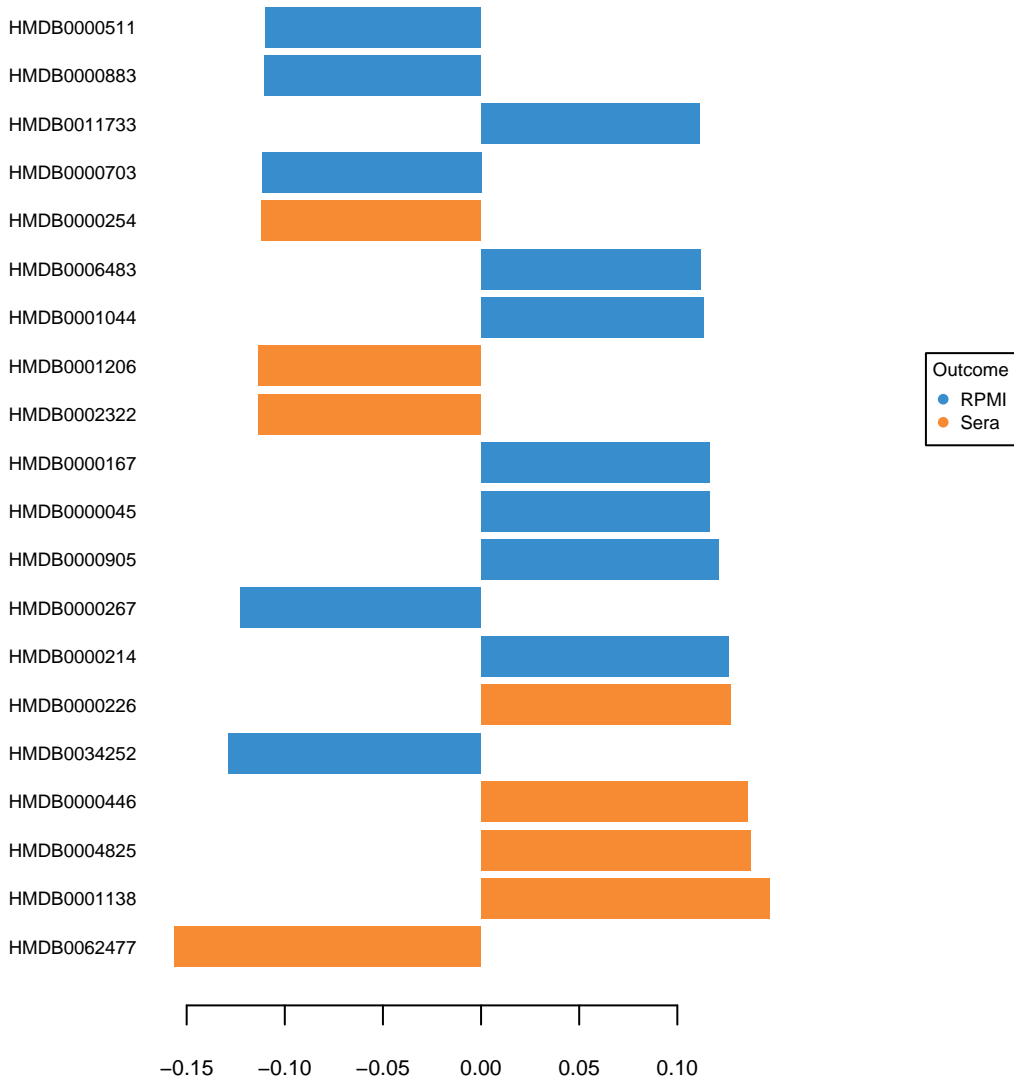
Sera



metabolome 3 PLSDA max load

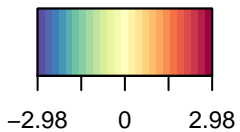


metabolome 3 PLSDA min load



PLSDA Component 4

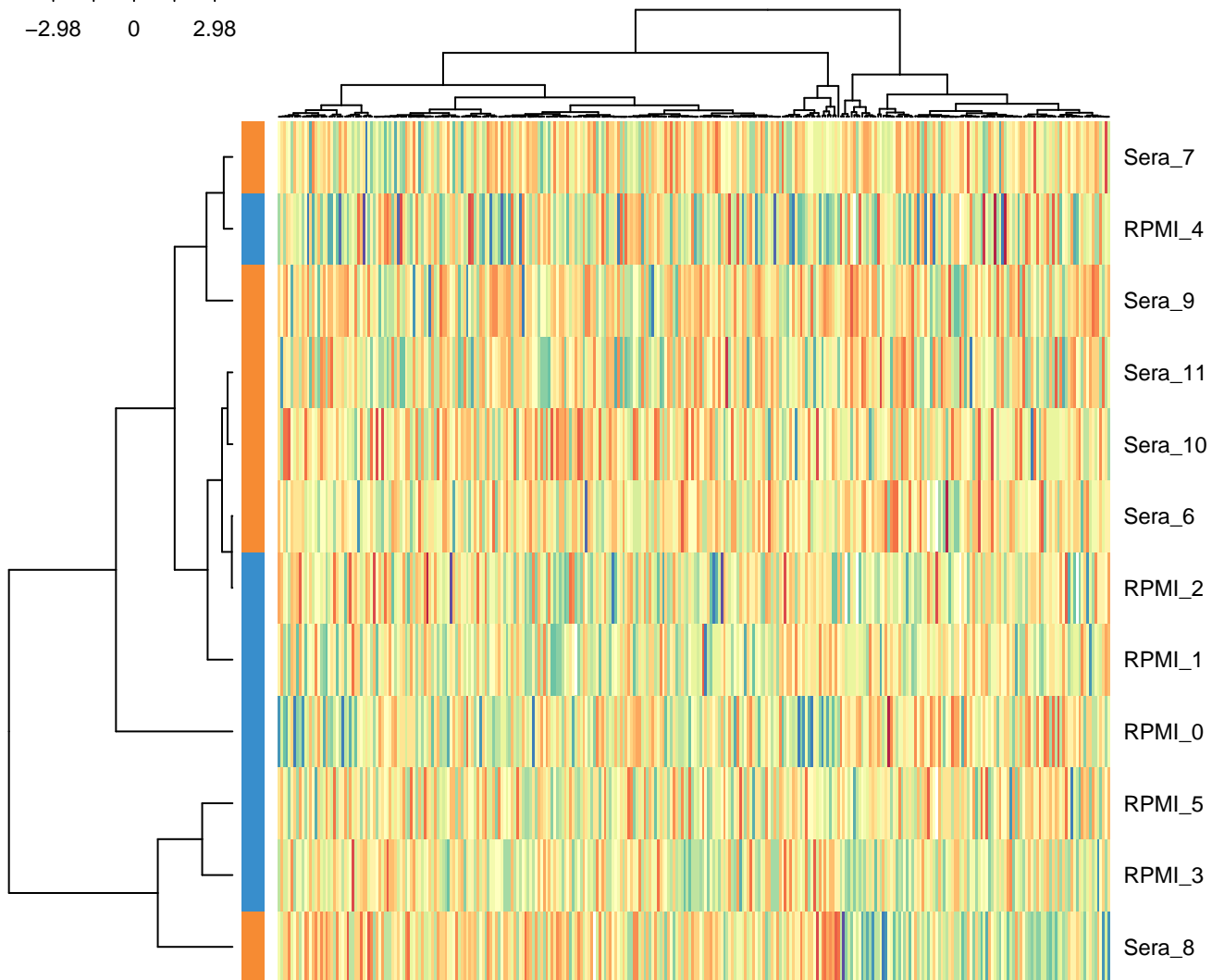
Color key



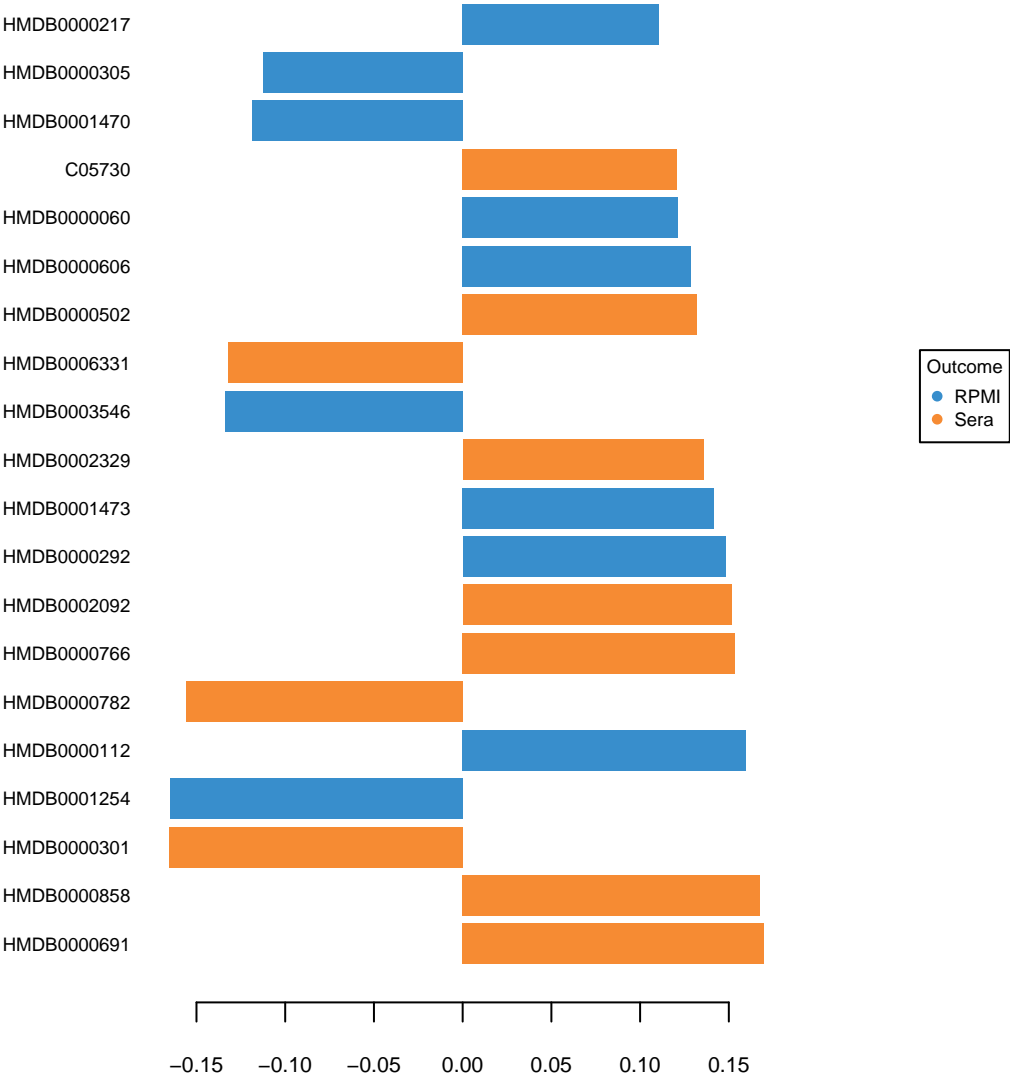
Status

RPMI

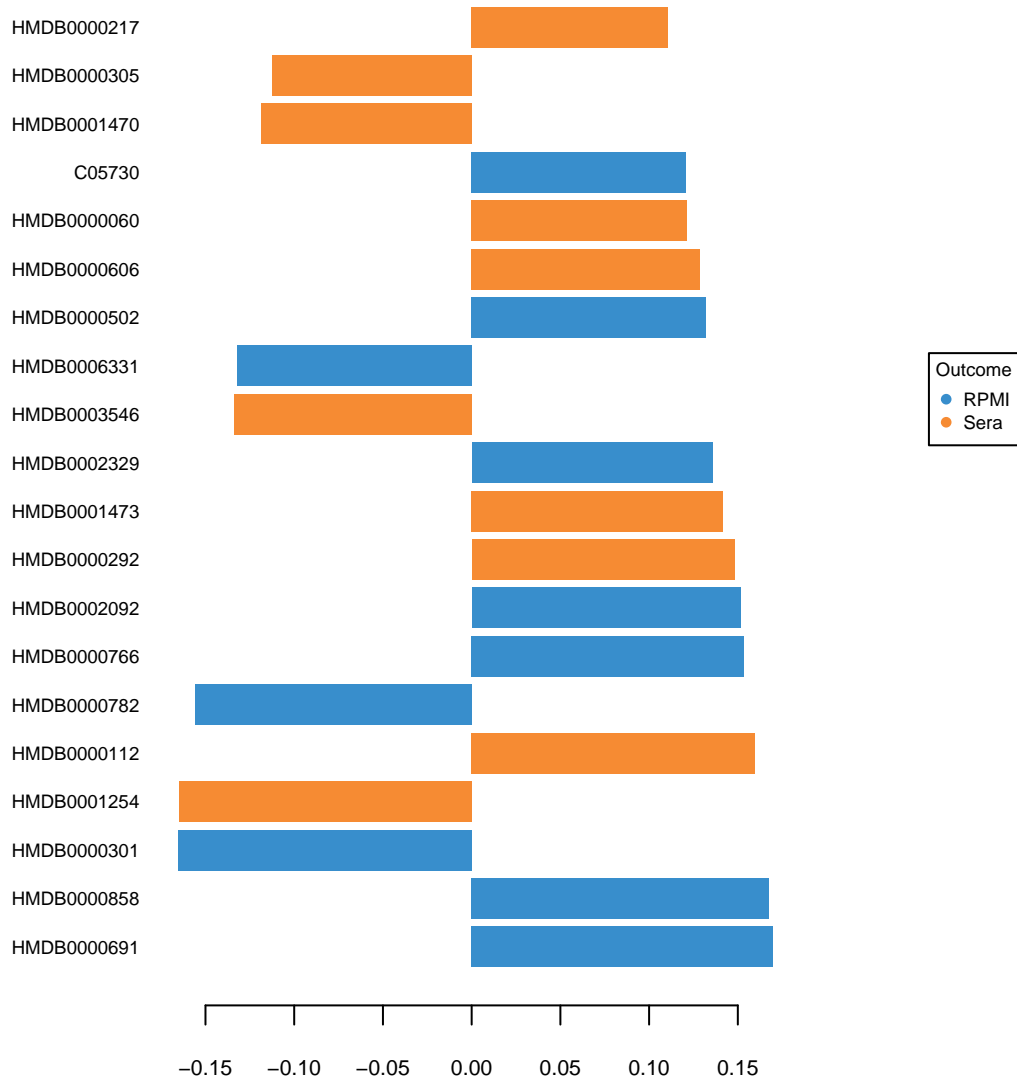
Sera



metabolome 4 PLSDA max load



metabolome 4 PLSDA min load



proteome PLSDA single 1/2

X-variate 2: 10% expl. var

X-variate 1: 25% expl. var

Legend

- RPMI
- △ Sera

25

0

-25

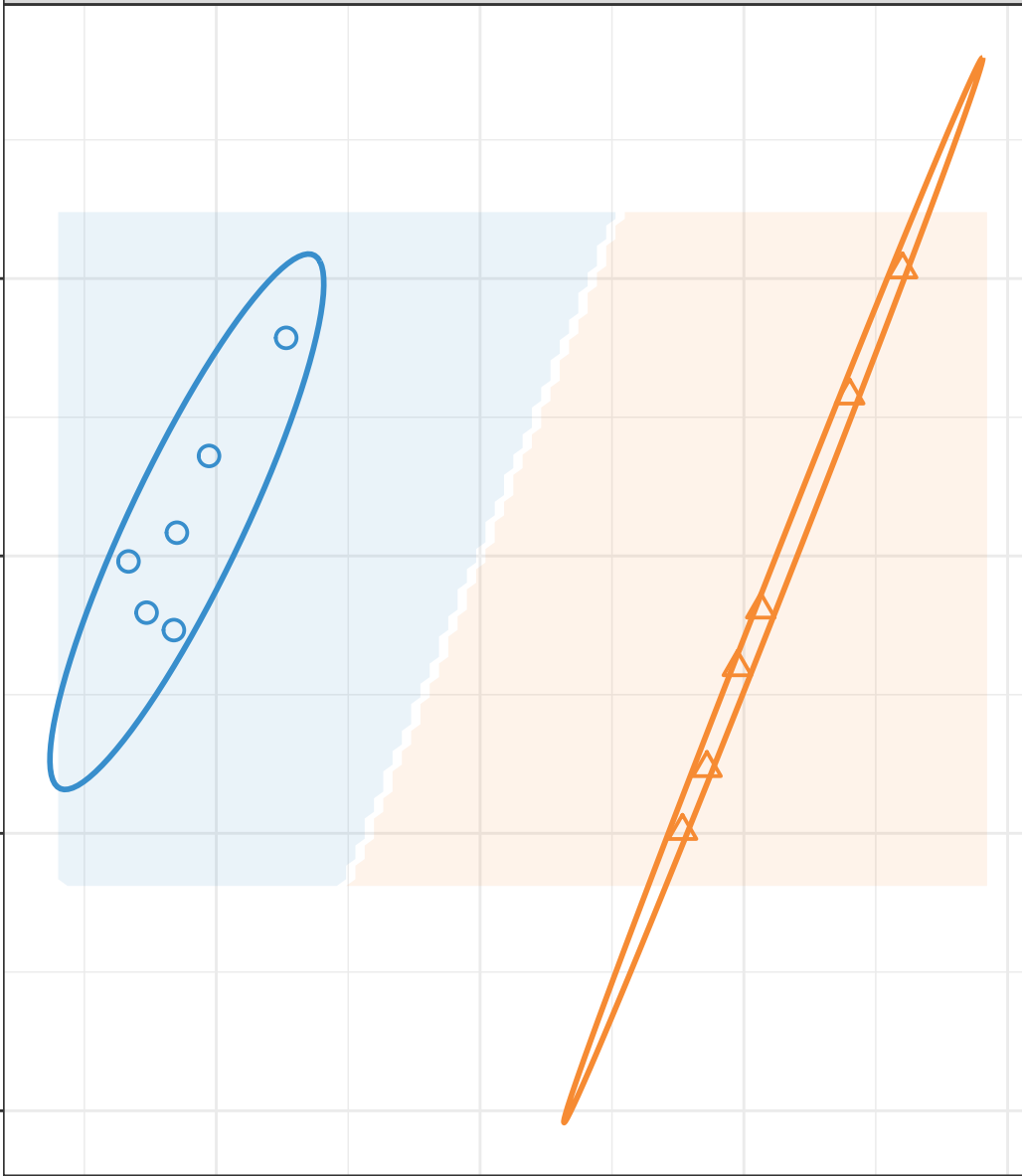
-50

-20

0

20

40



proteome PLSDA single 1/2

X-variate 2: 10% expl. var

X-variate 1: 25% expl. var

Legend

- RPMI
- △ Sera

25

0

-25

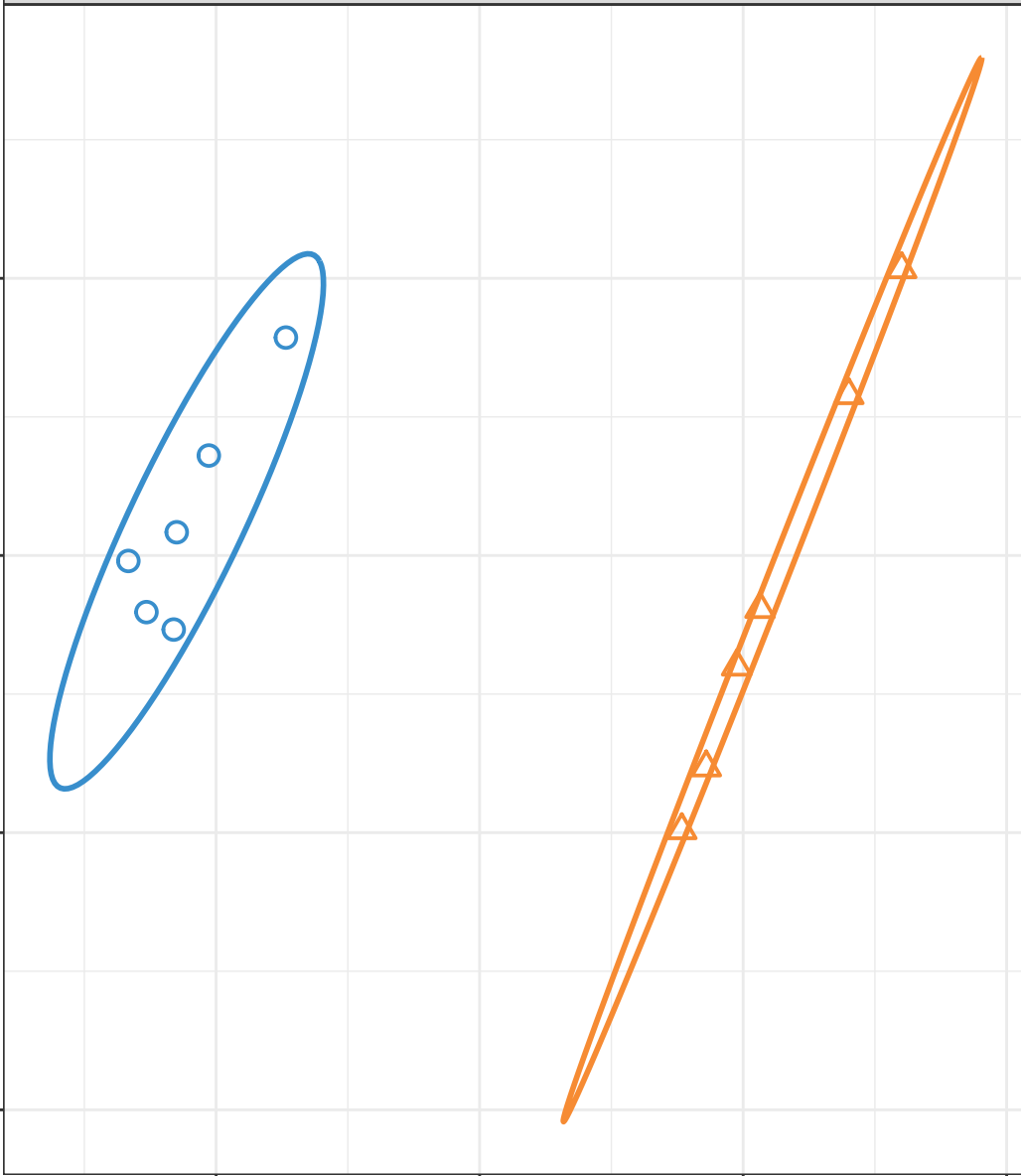
-50

-20

0

20

40



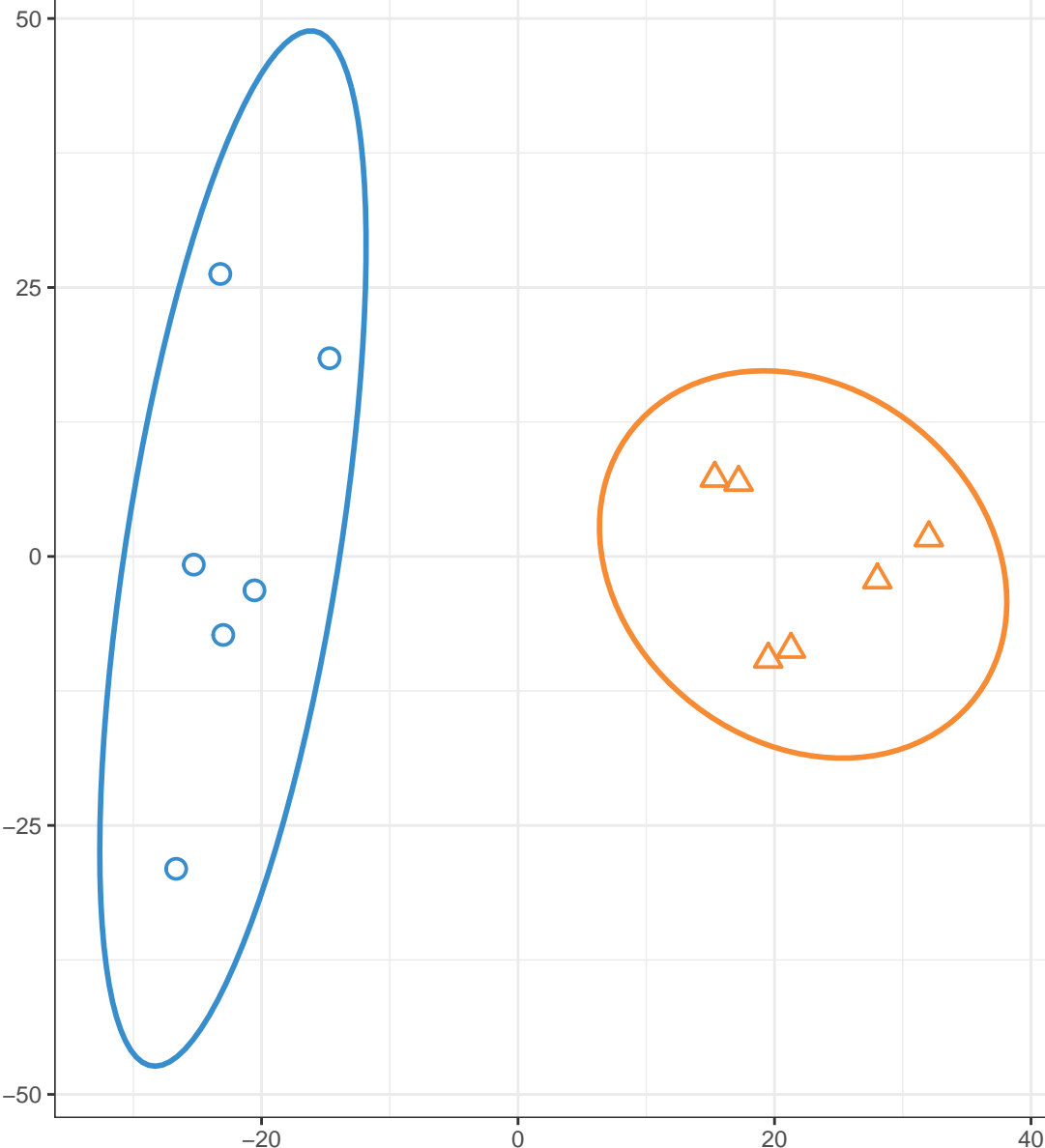
proteome PLSDA single 1/3

X-variate 3: 9% expl. var

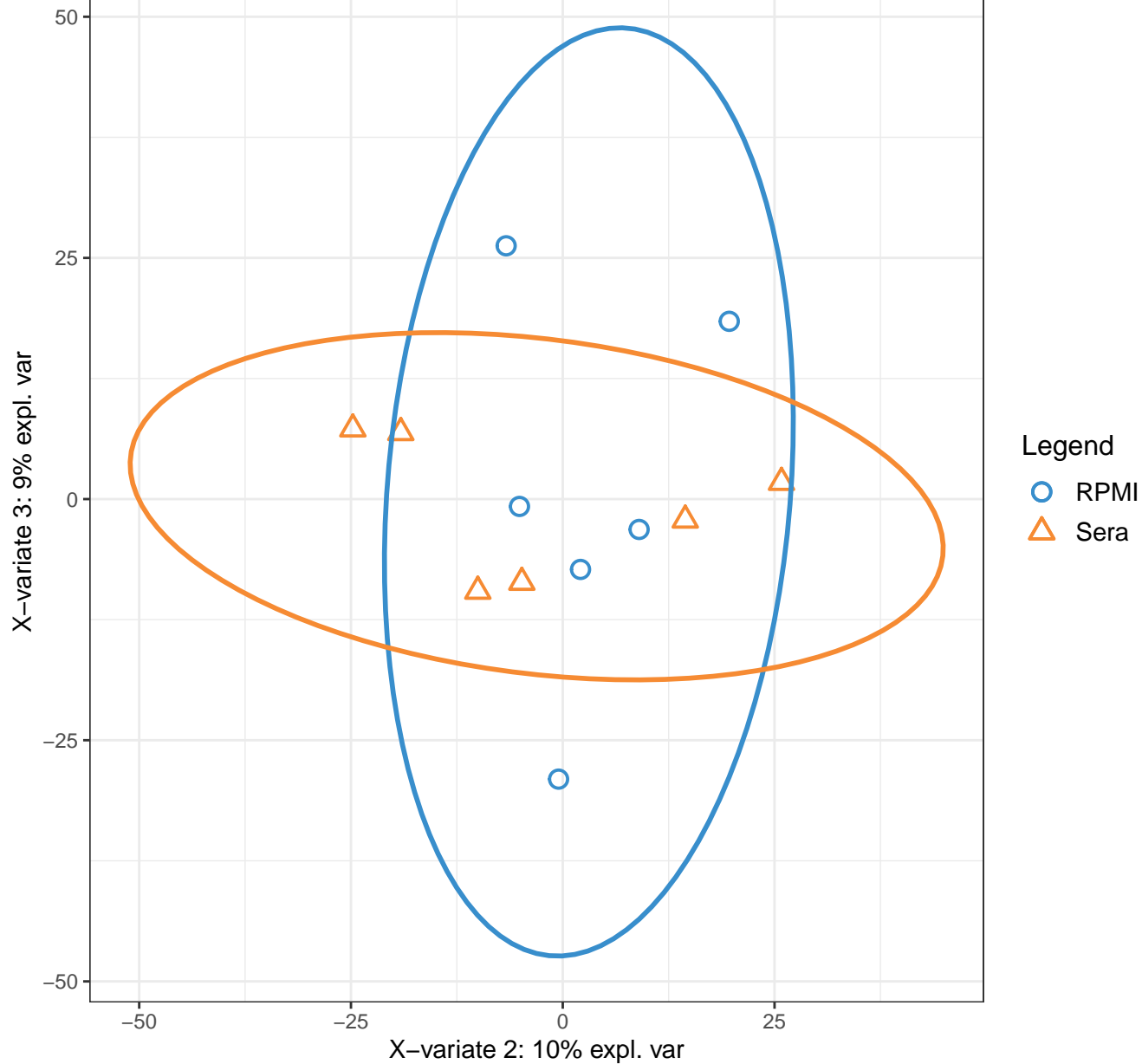
X-variate 1: 25% expl. var

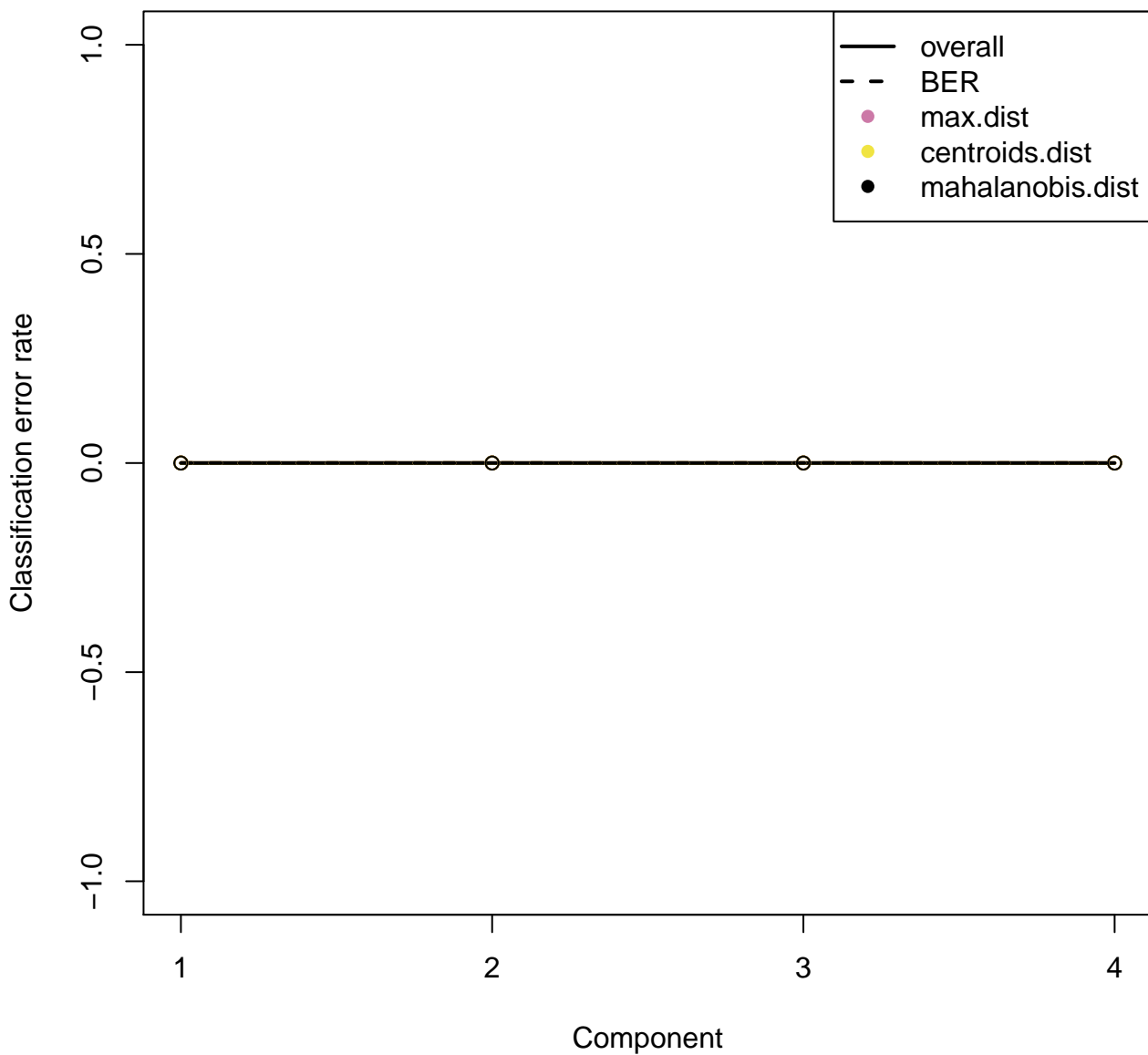
Legend

- RPMI
- △ Sera

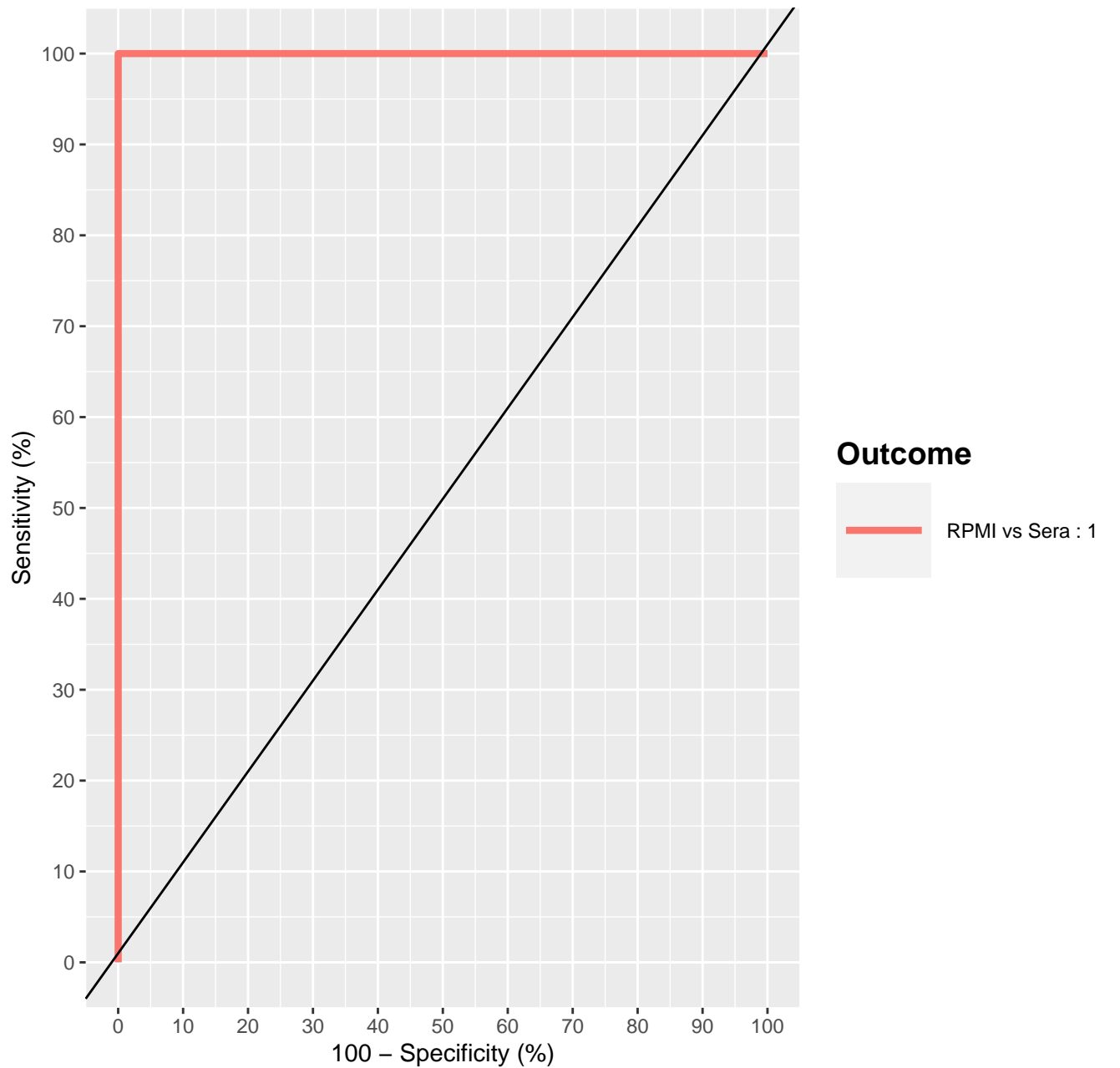


proteome PLSDA single 2/3

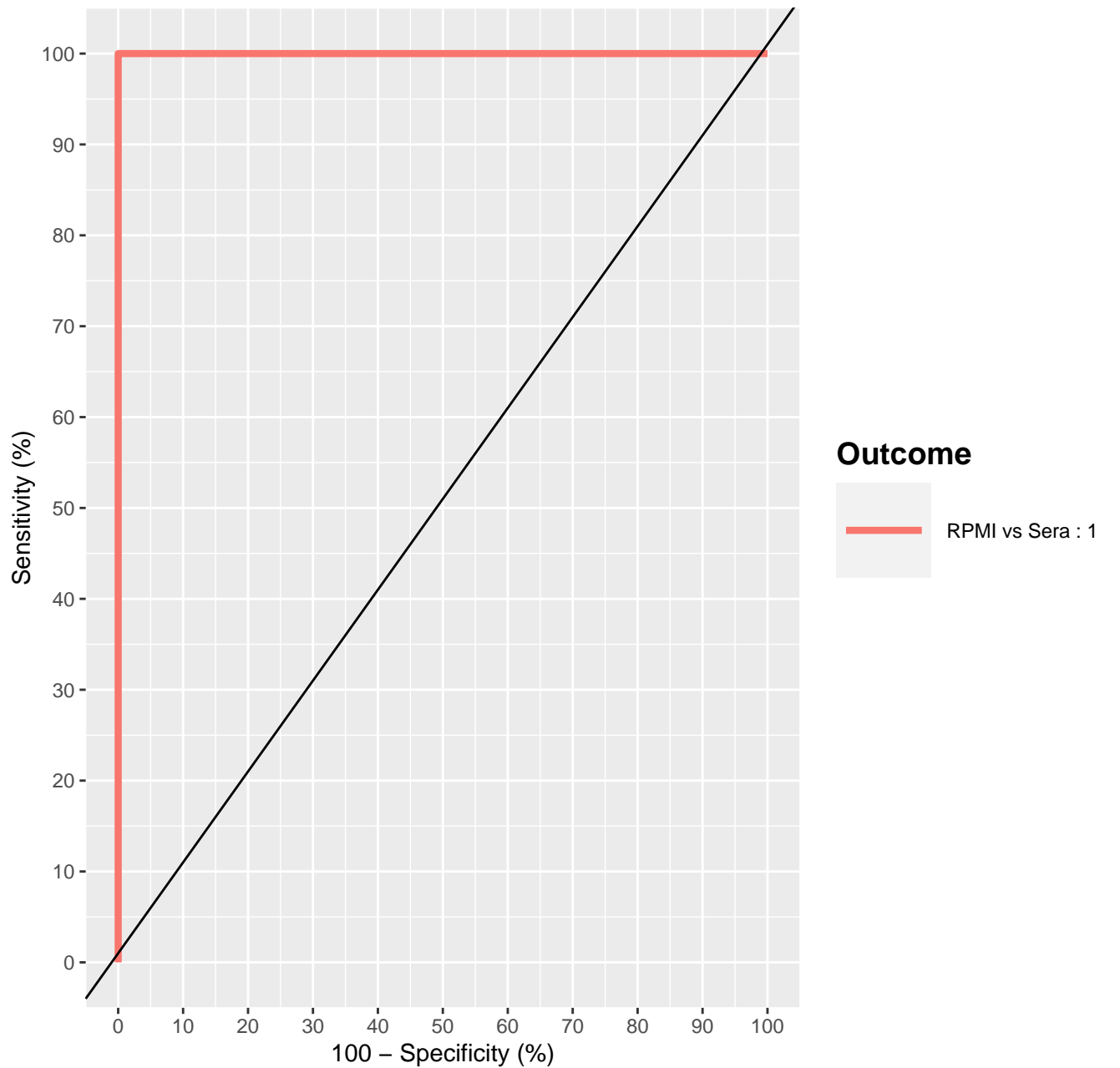




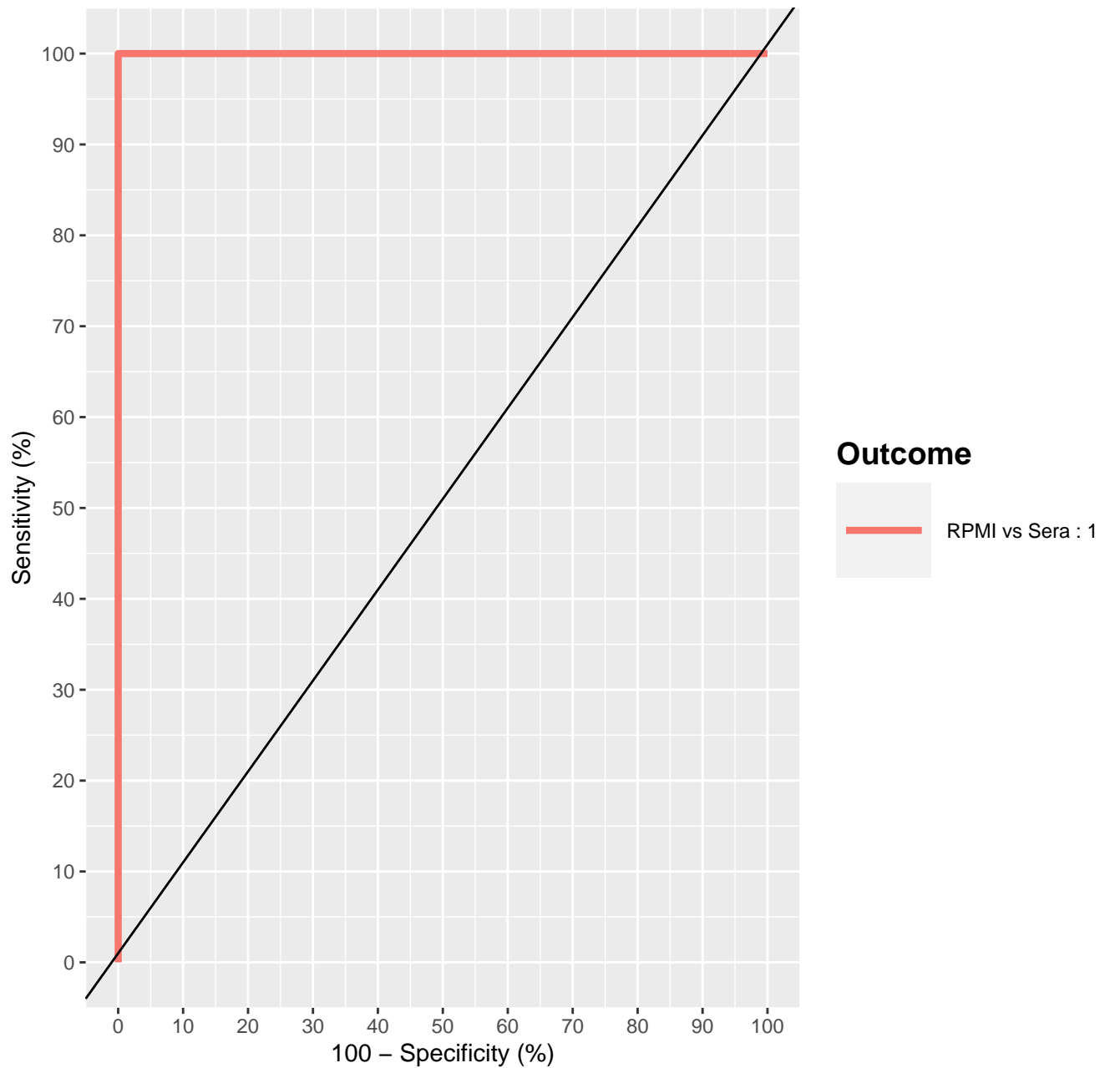
ROC Curve Using Comp(s): 1



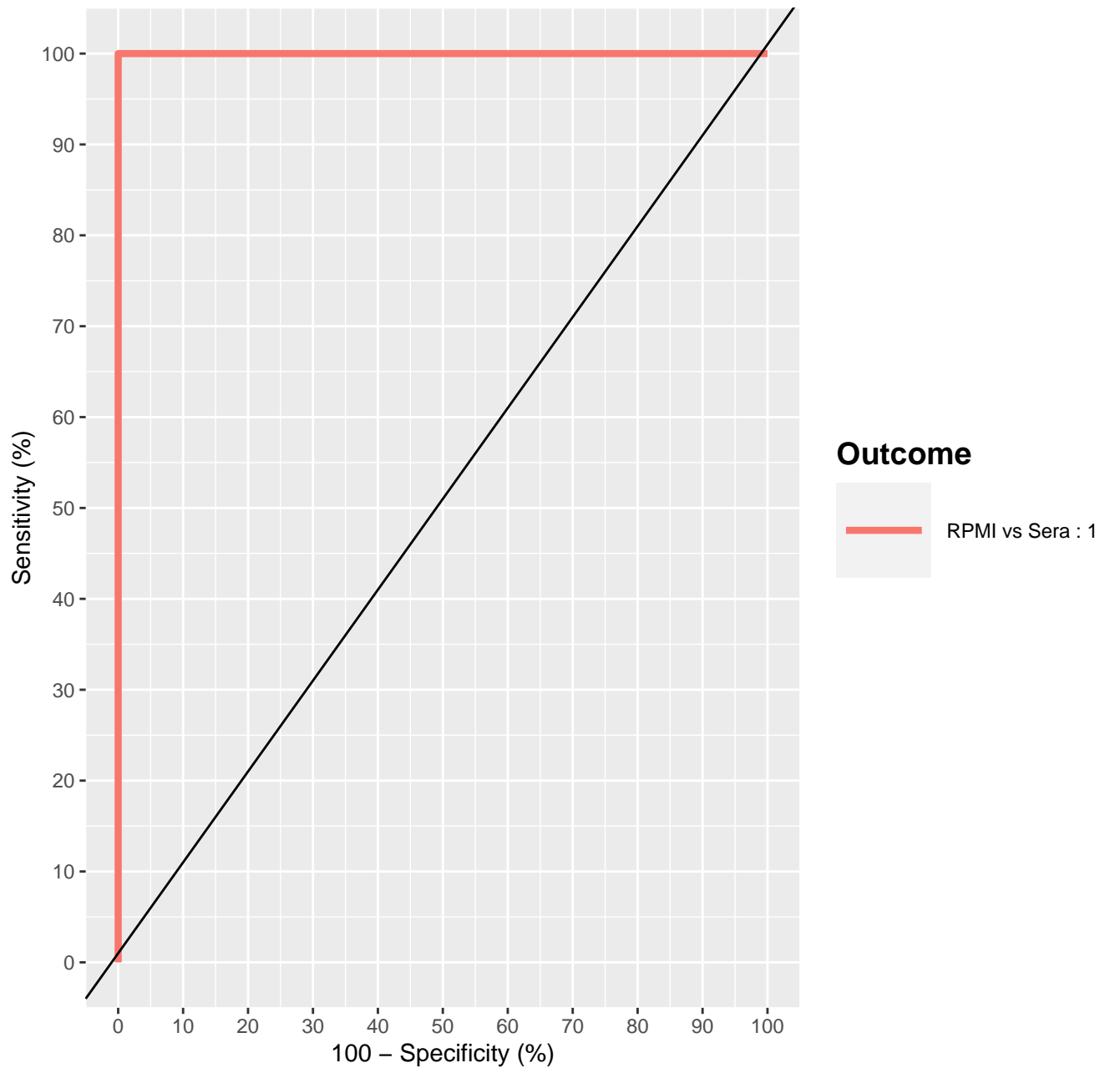
ROC Curve Using Comp(s): 1, 2



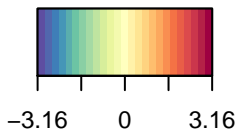
ROC Curve Using Comp(s): 1, 2, 3



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



Color key

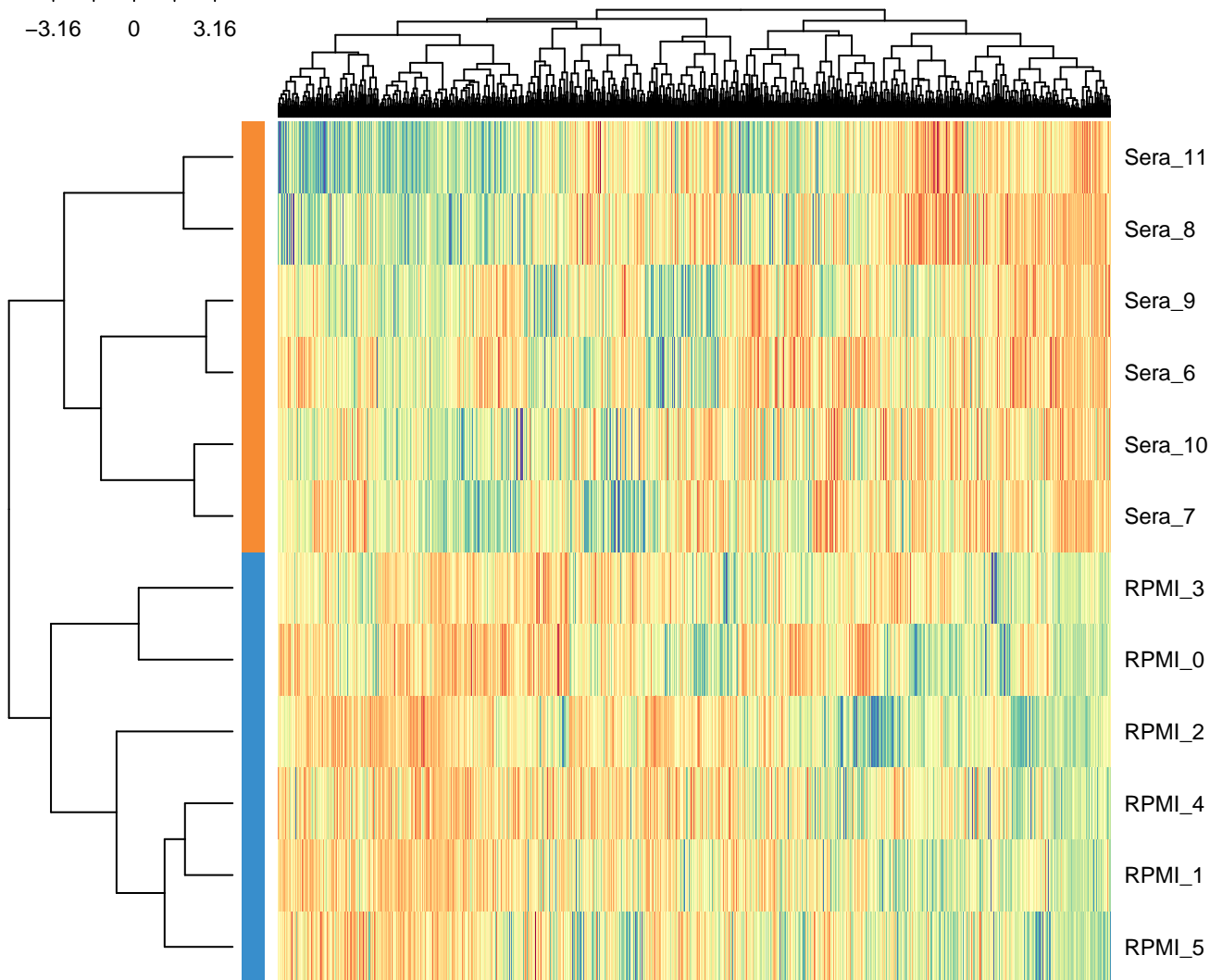


PLSDA

Status

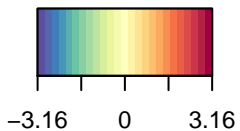
RPMI

Sera



PLSDA Component 1

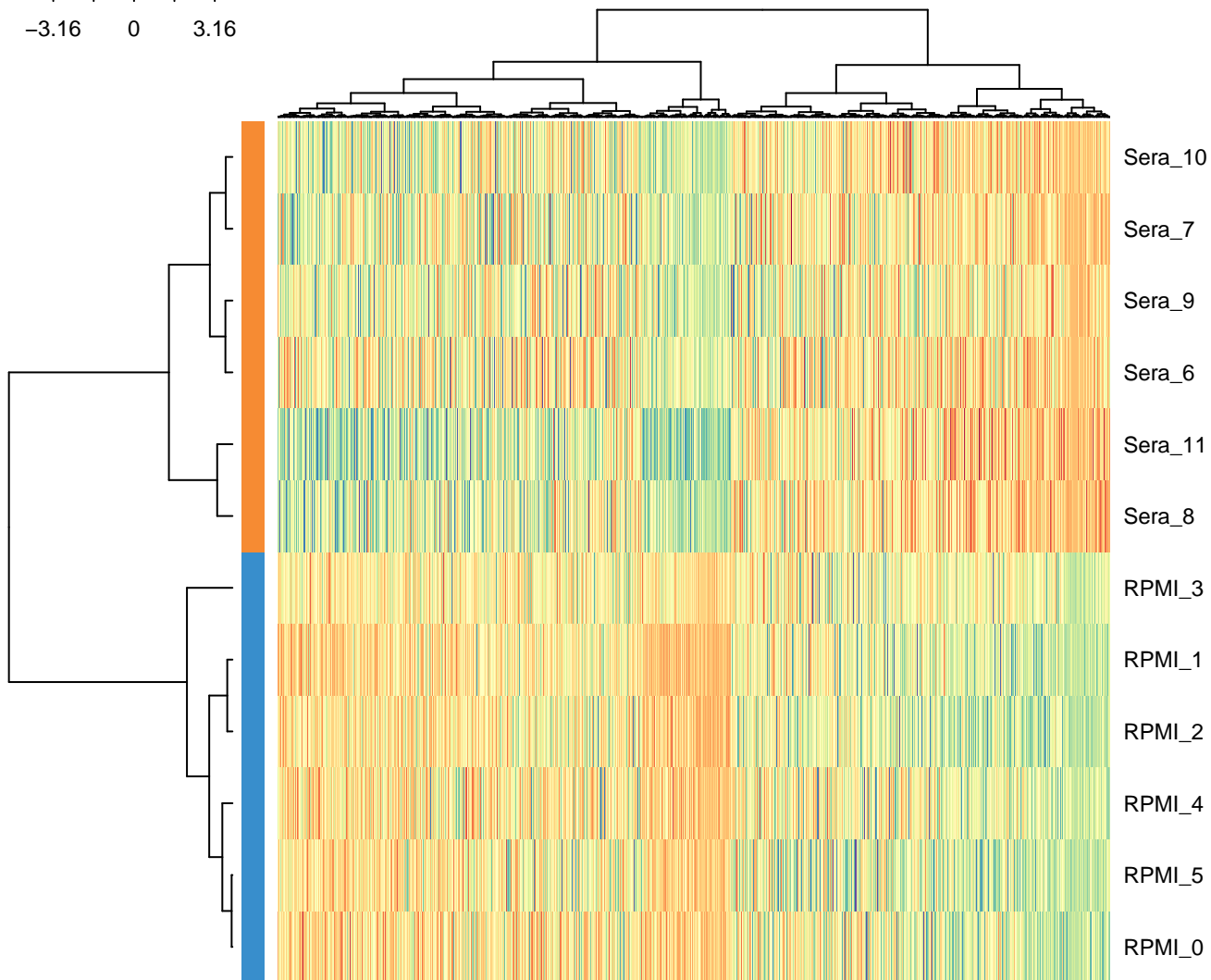
Color key



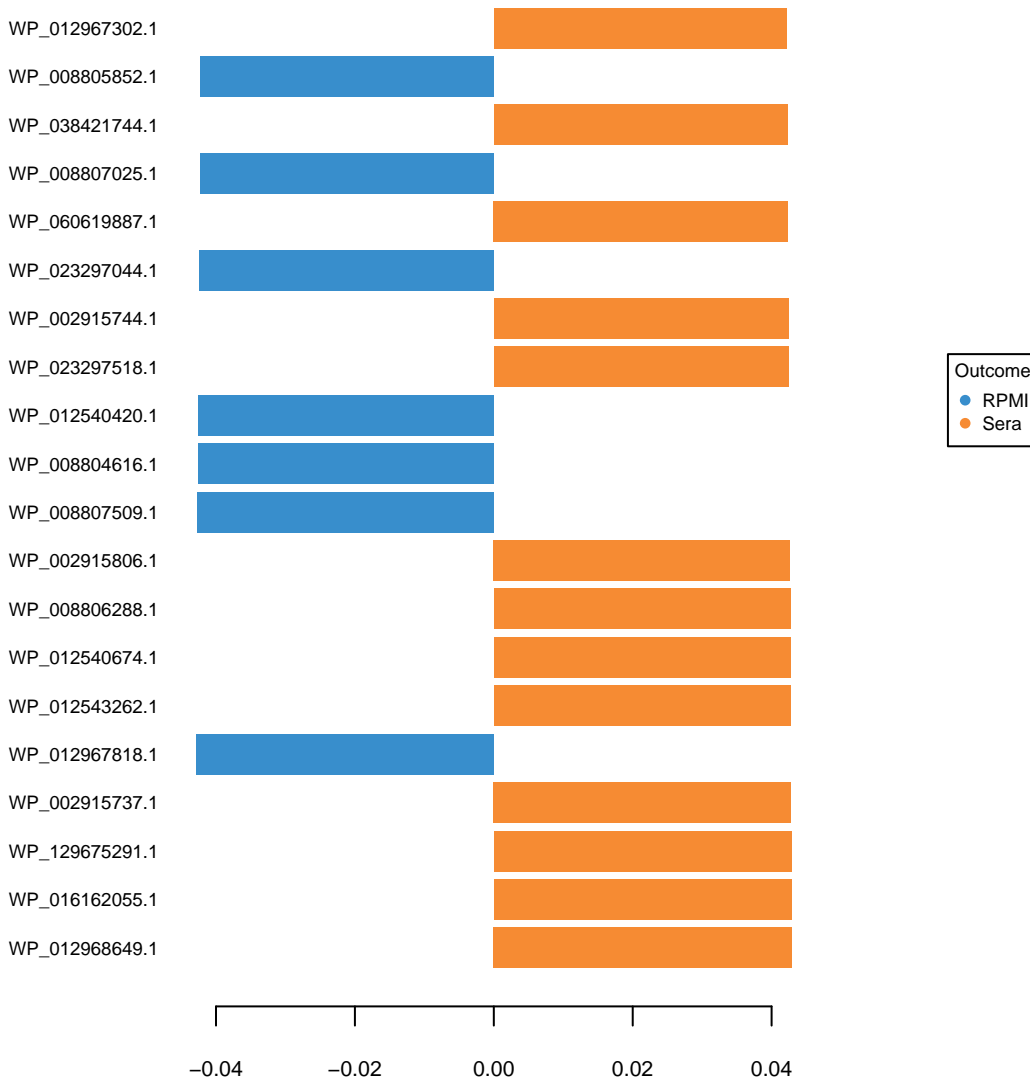
Status

RPMI

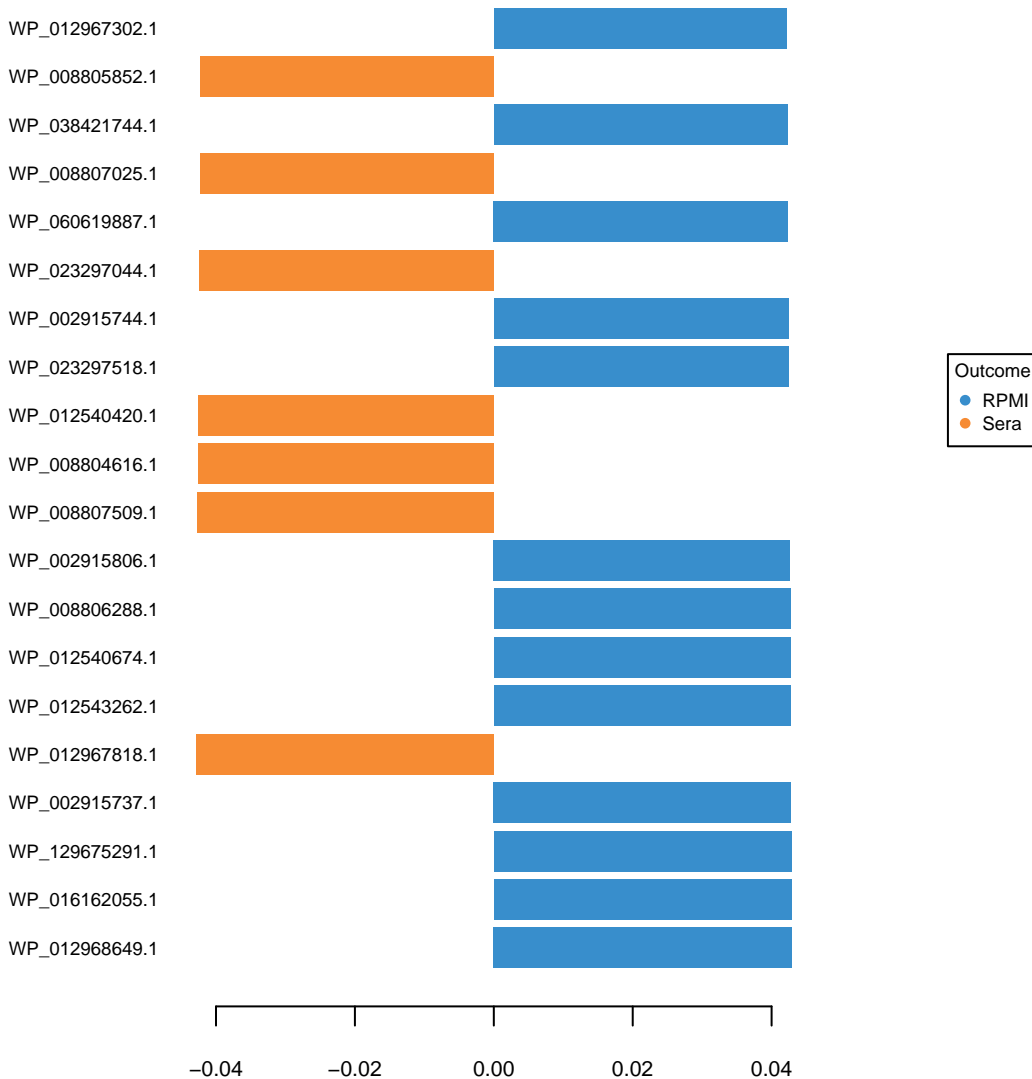
Sera



proteome 1 PLSDA max loadir

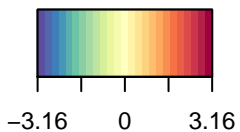


proteome 1 PLSDA min loadin



PLSDA Component 2

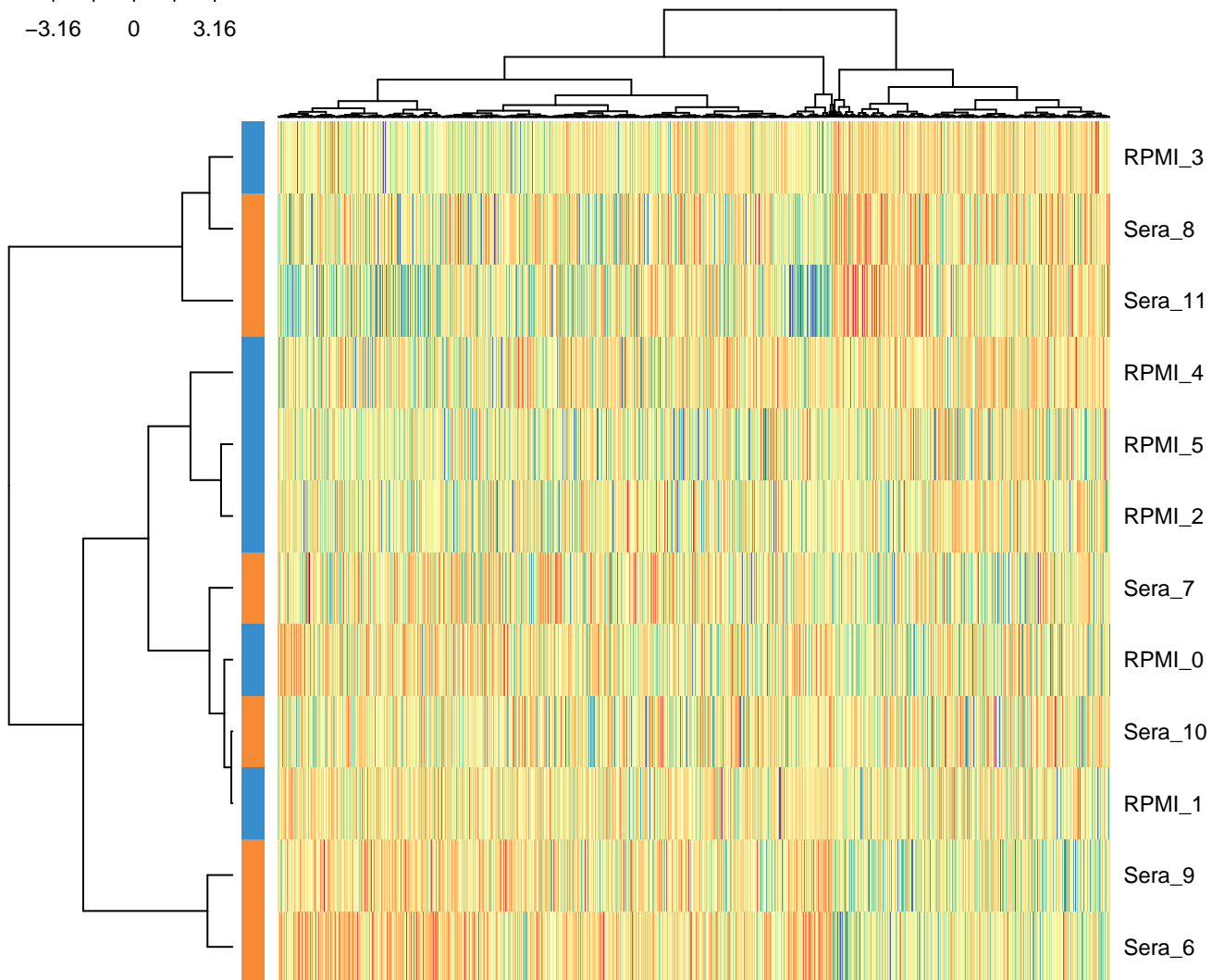
Color key



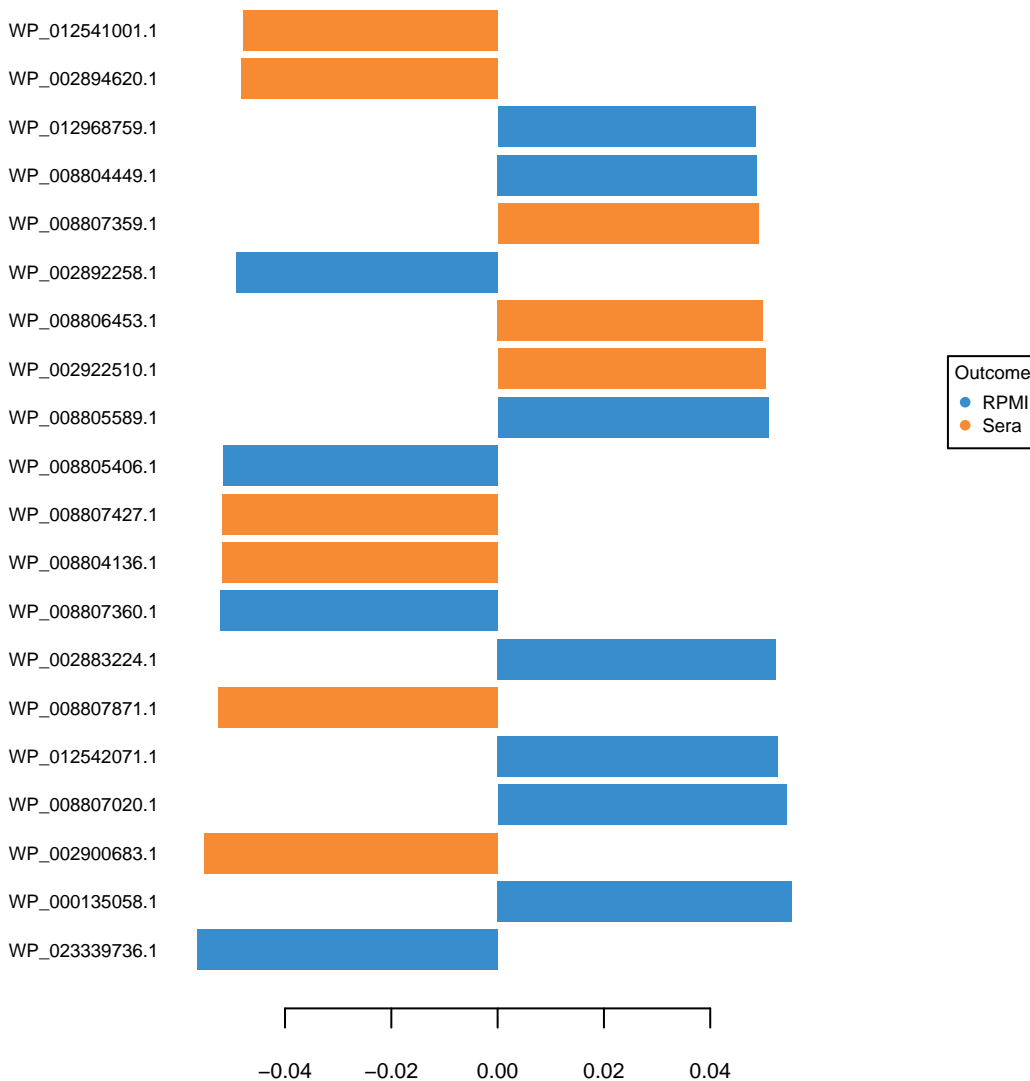
Status

■ RPMI

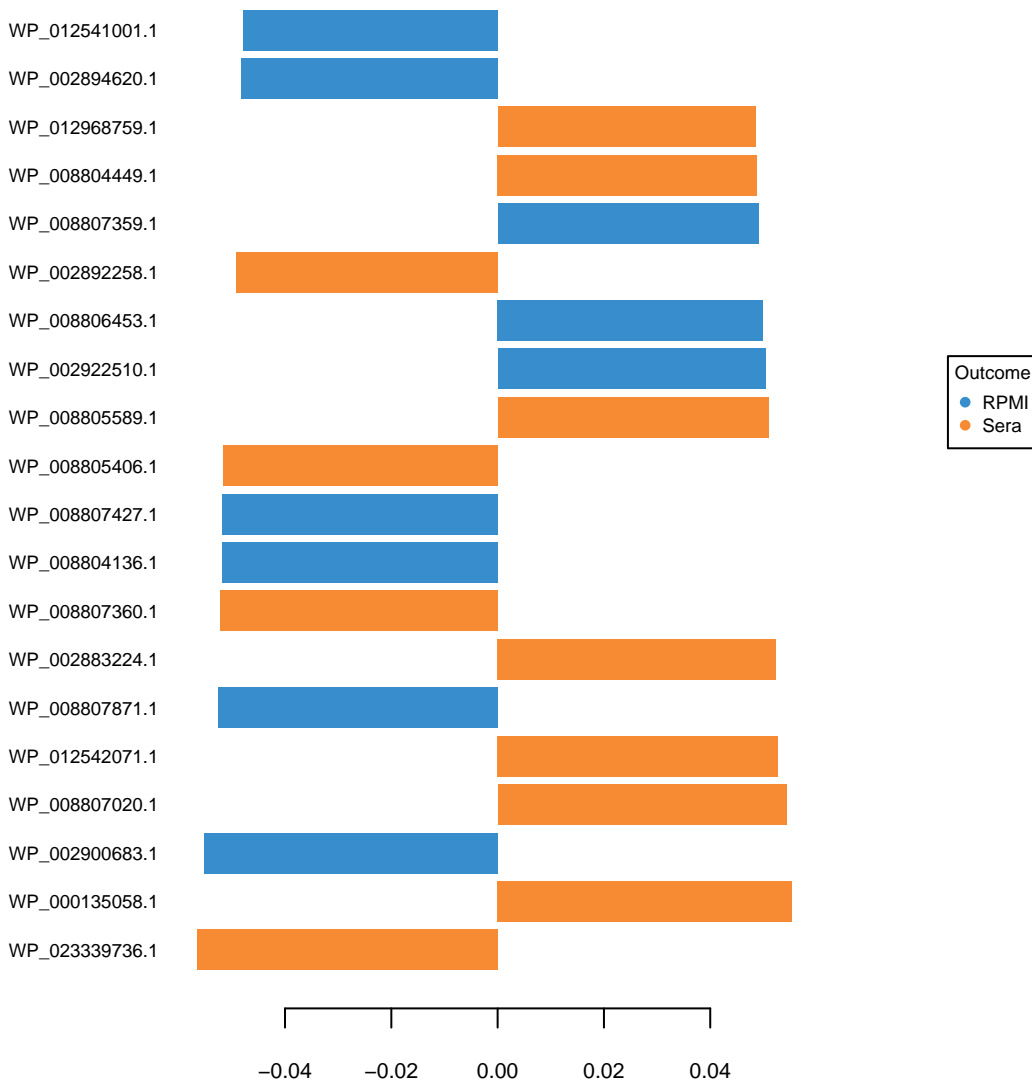
■ Sera



proteome 2 PLSDA max loadir

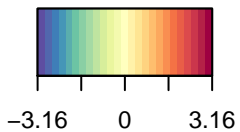


proteome 2 PLSDA min loadin



PLSDA Component 3

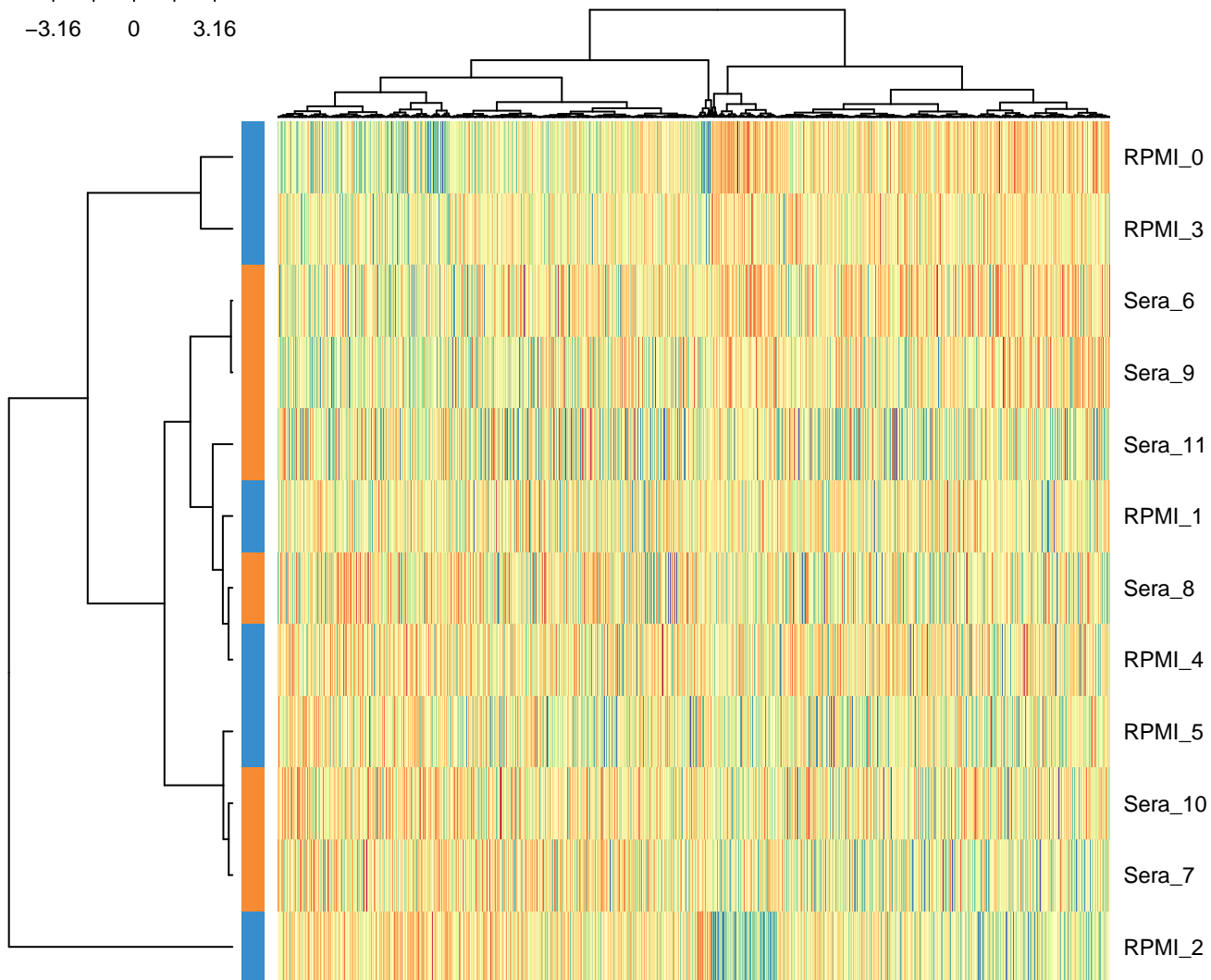
Color key



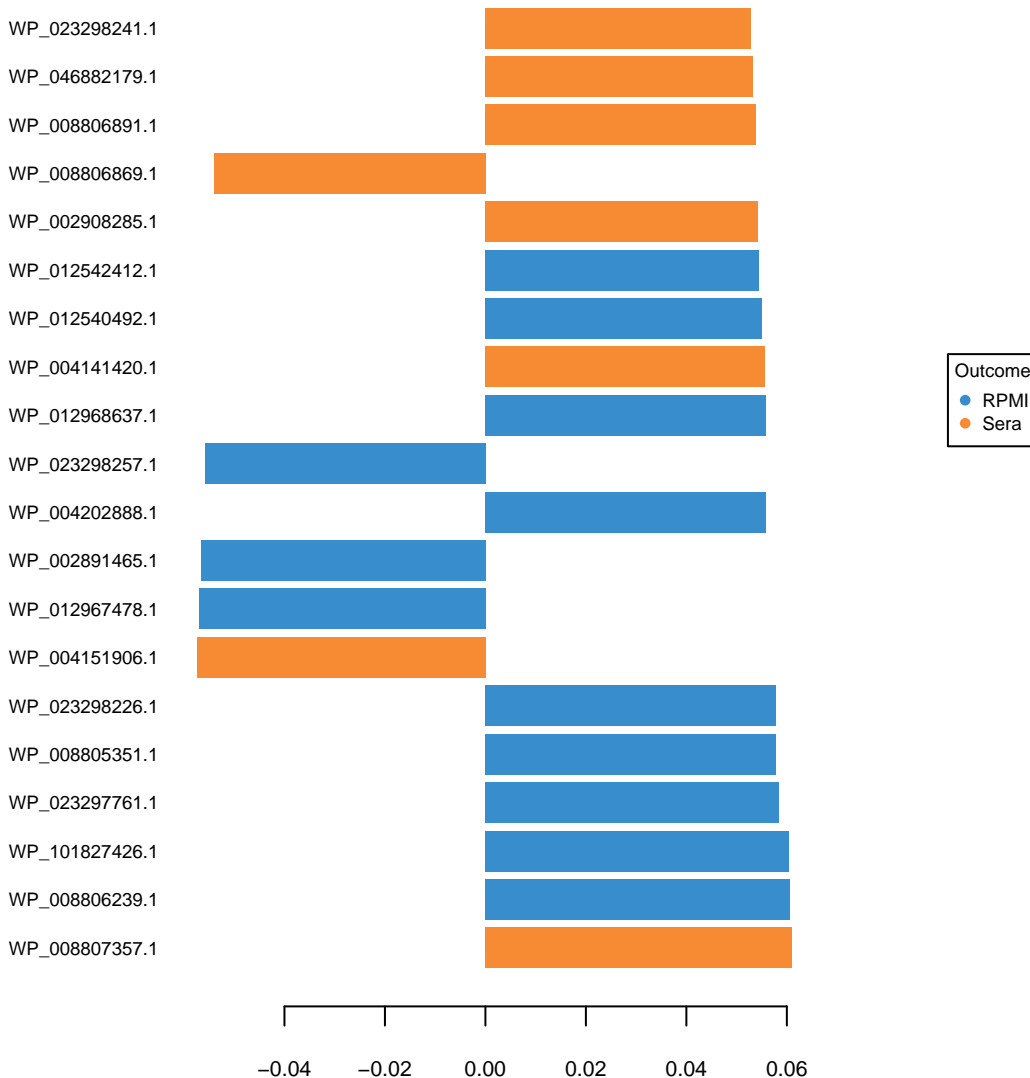
Status

RPMI

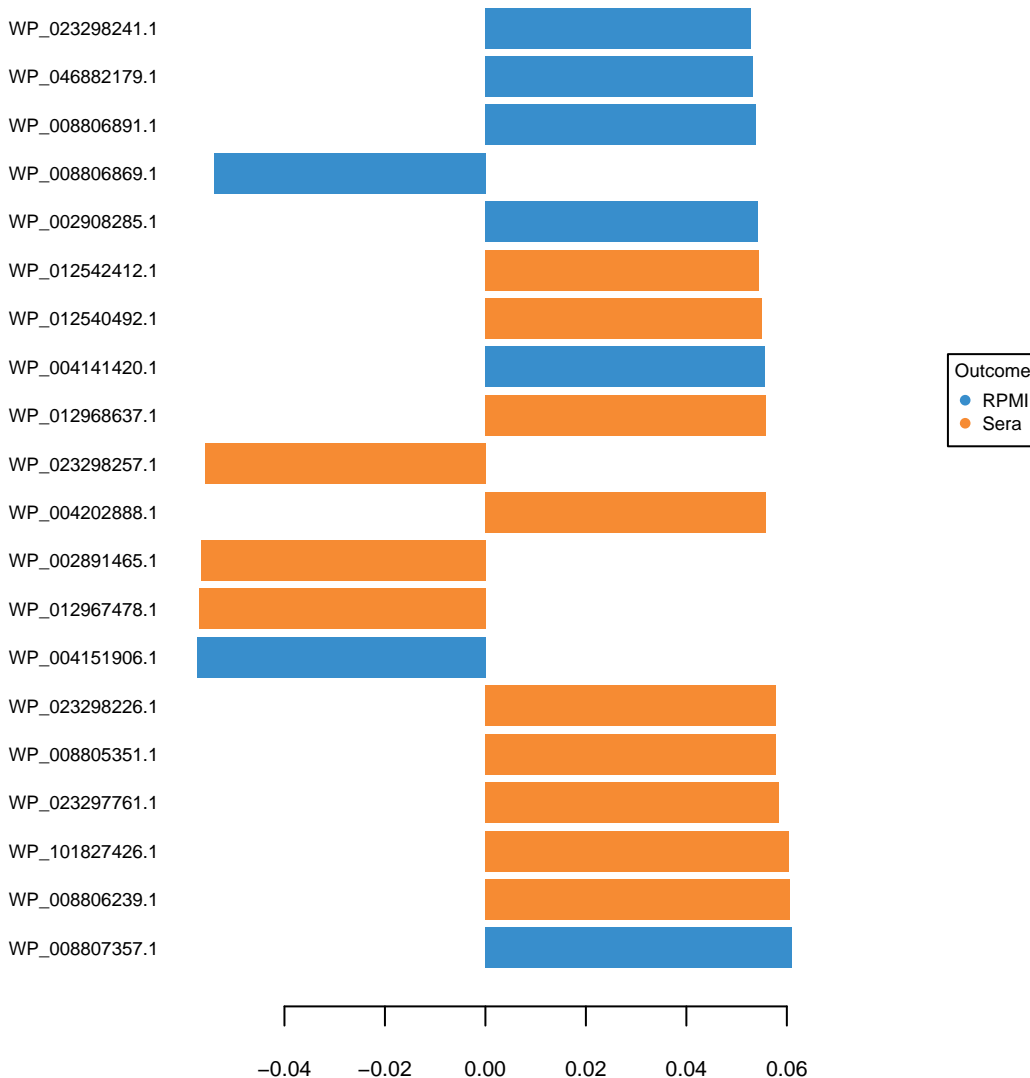
Sera



proteome 3 PLSDA max loadir

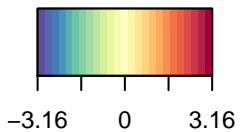


proteome 3 PLSDA min loadin



PLSDA Component 4

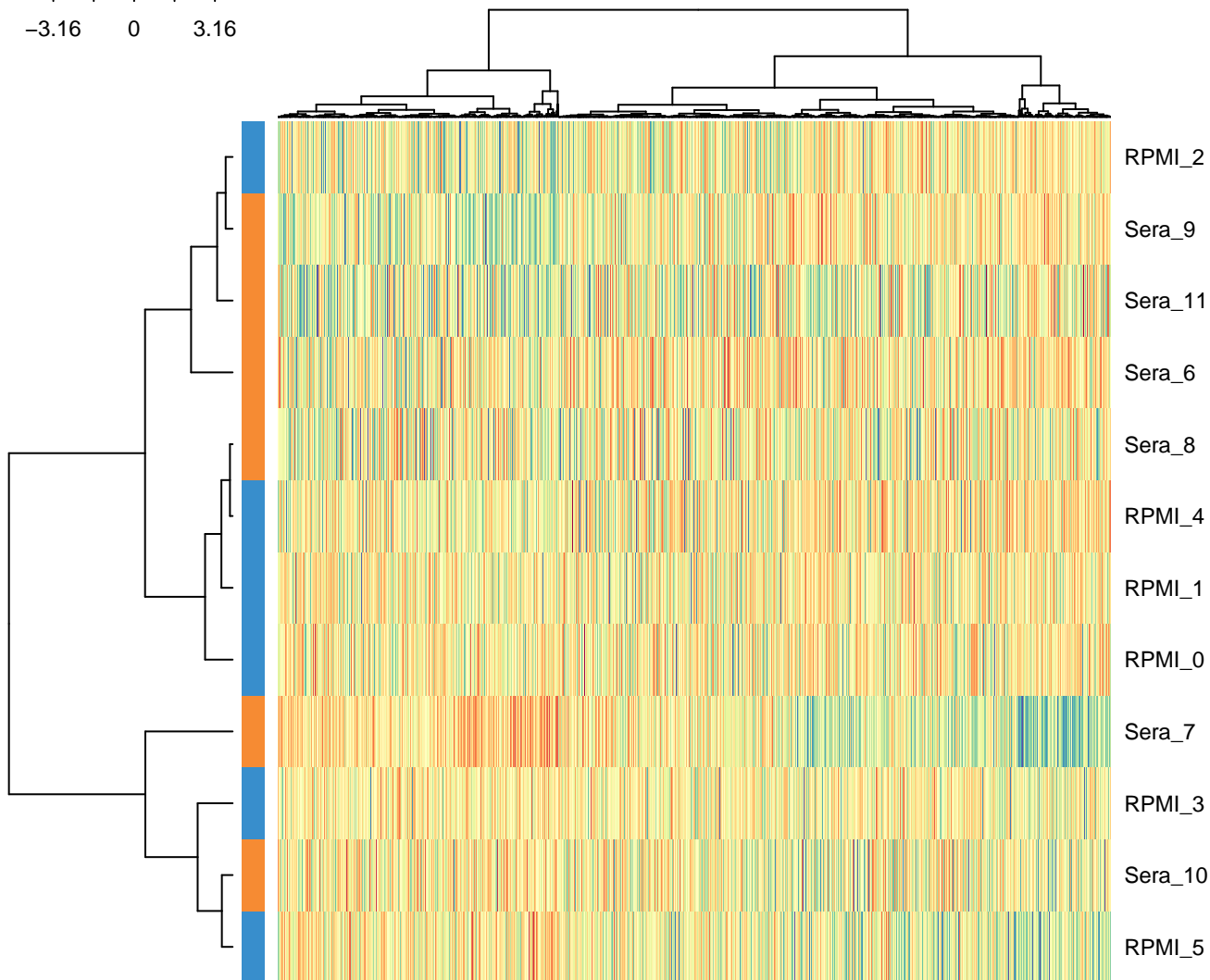
Color key



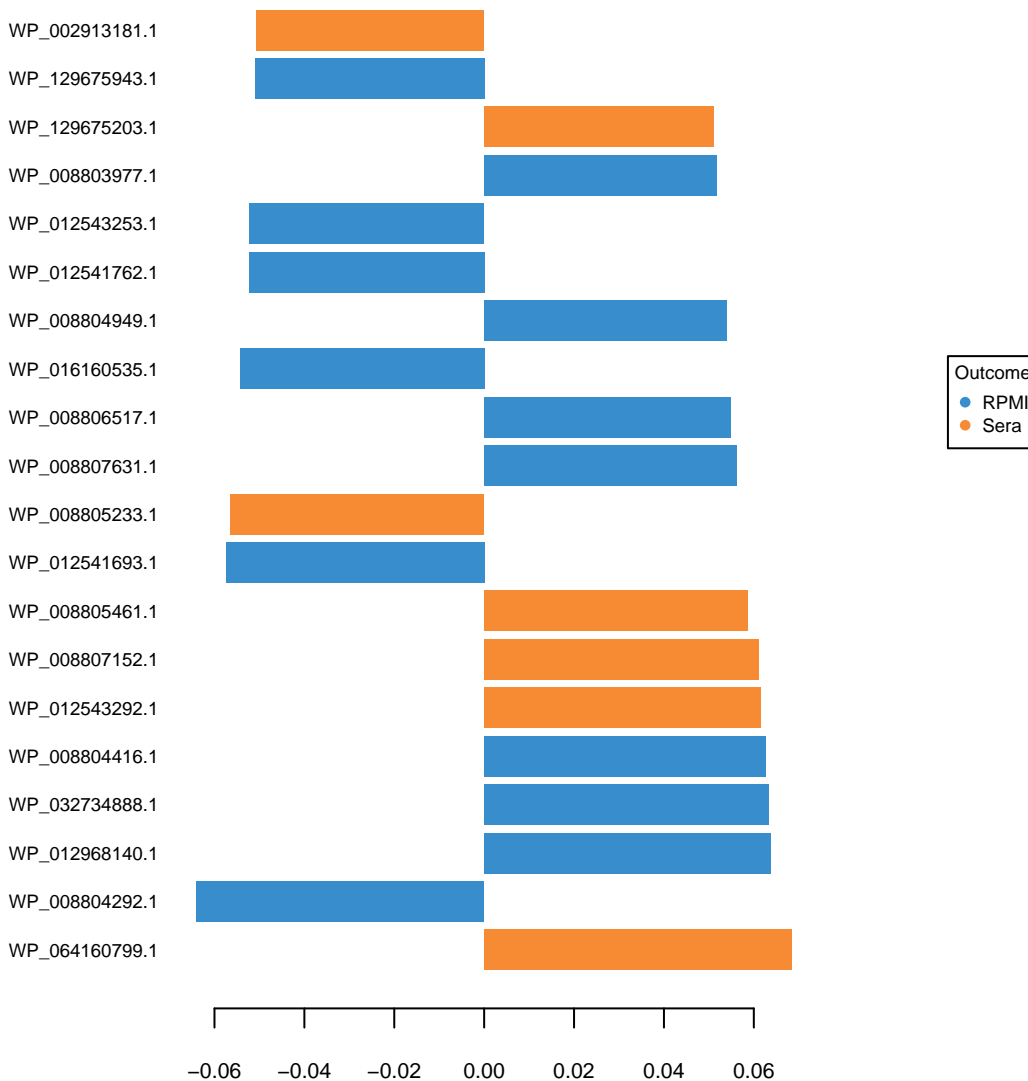
Status

RPMI

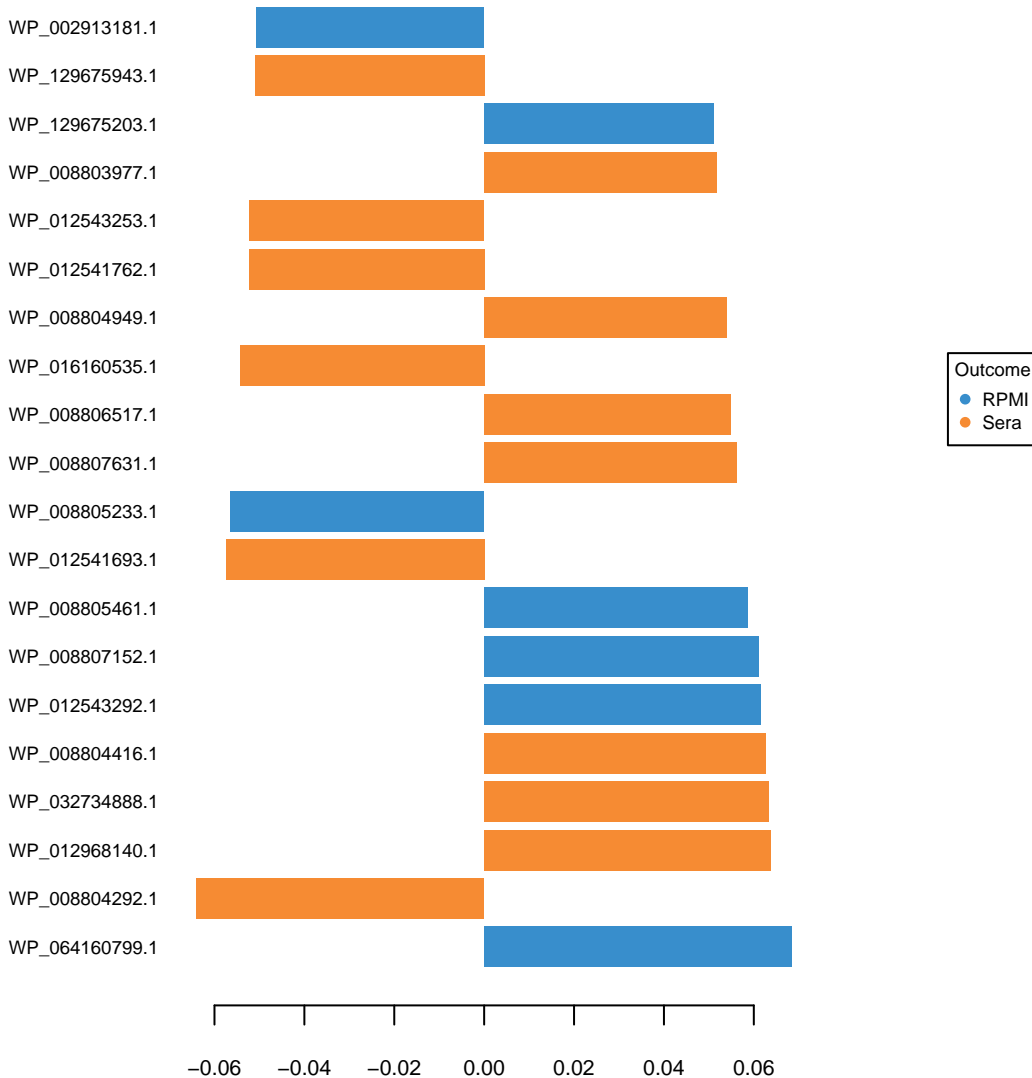
Sera



proteome 4 PLSDA max loadir



proteome 4 PLSDA min loadin



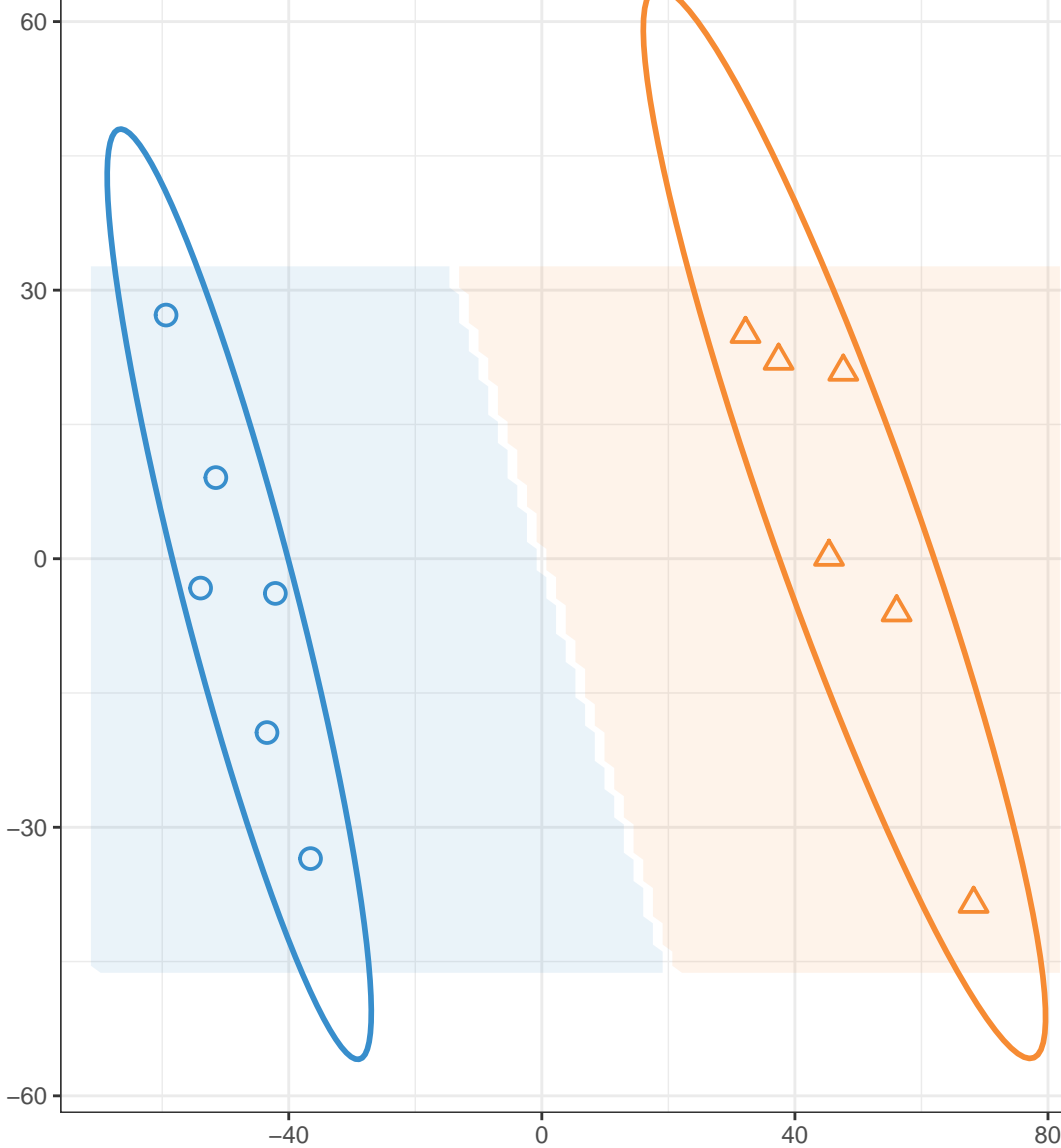
transcriptome PLSDA single 1/2

X-variate 2: 11% expl. var

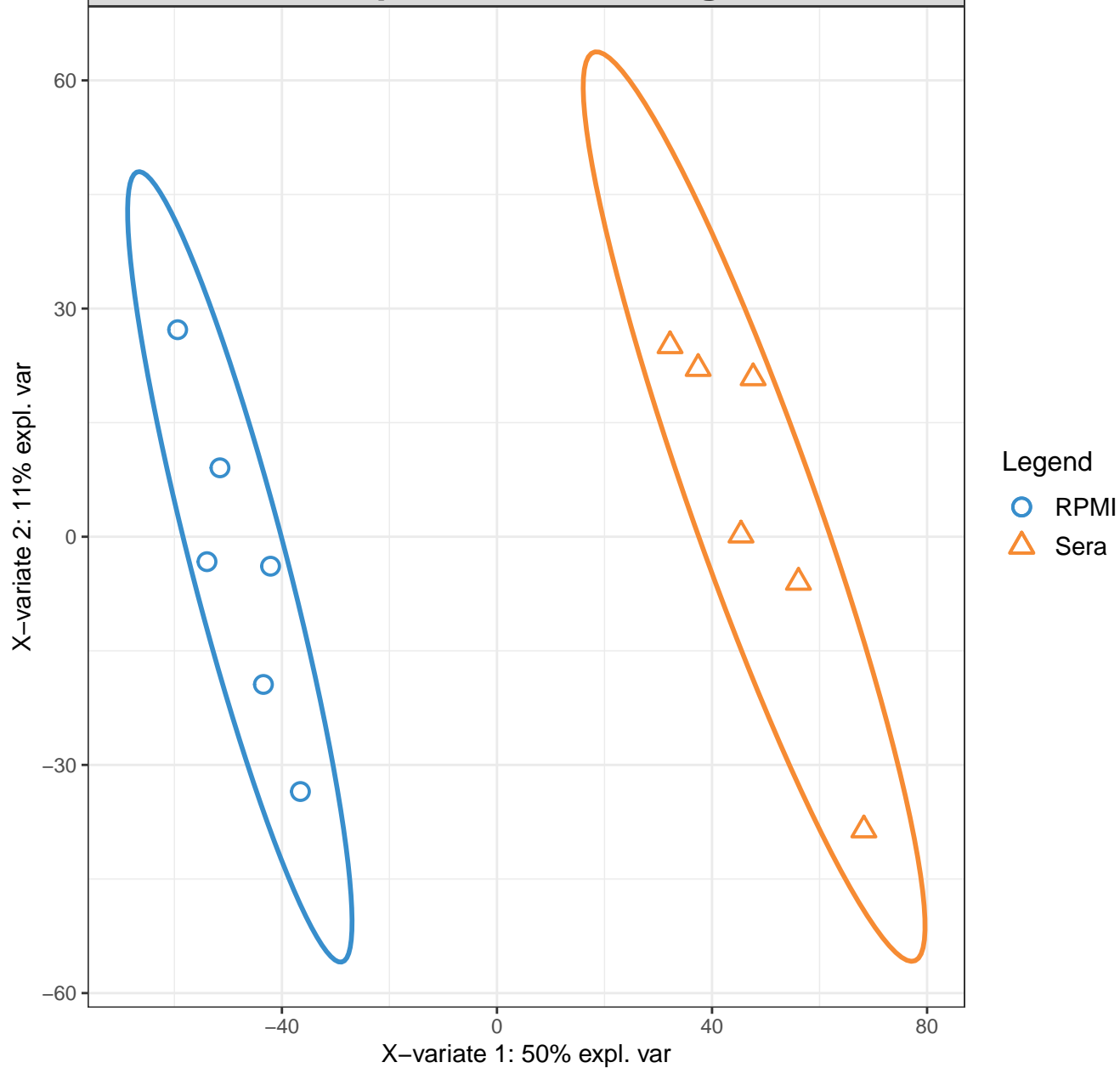
X-variate 1: 50% expl. var

Legend

- RPMI
- △ Sera

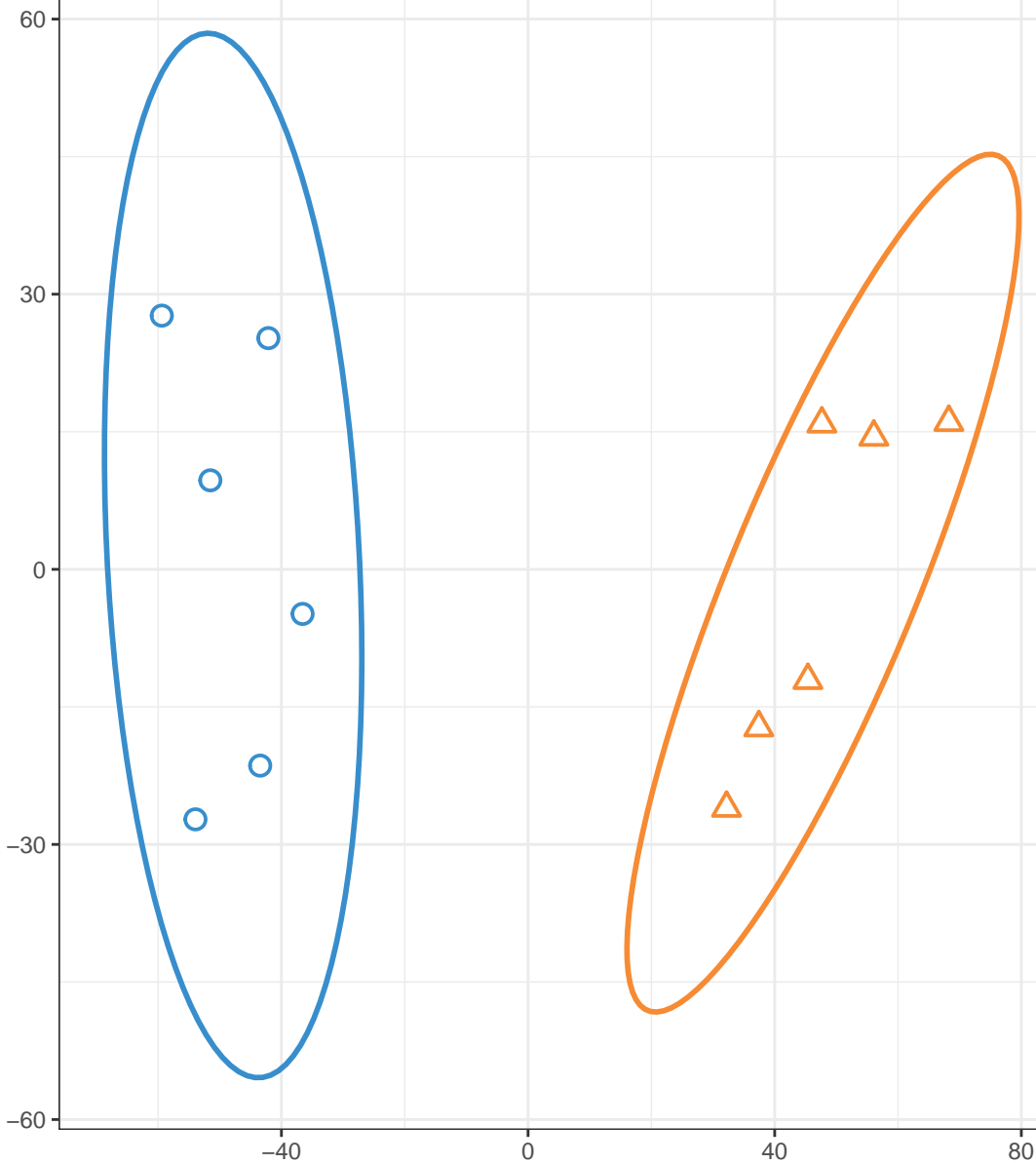


transcriptome PLSDA single 1/2



transcriptome PLSDA single 1/3

X-variate 3: 9% expl. var

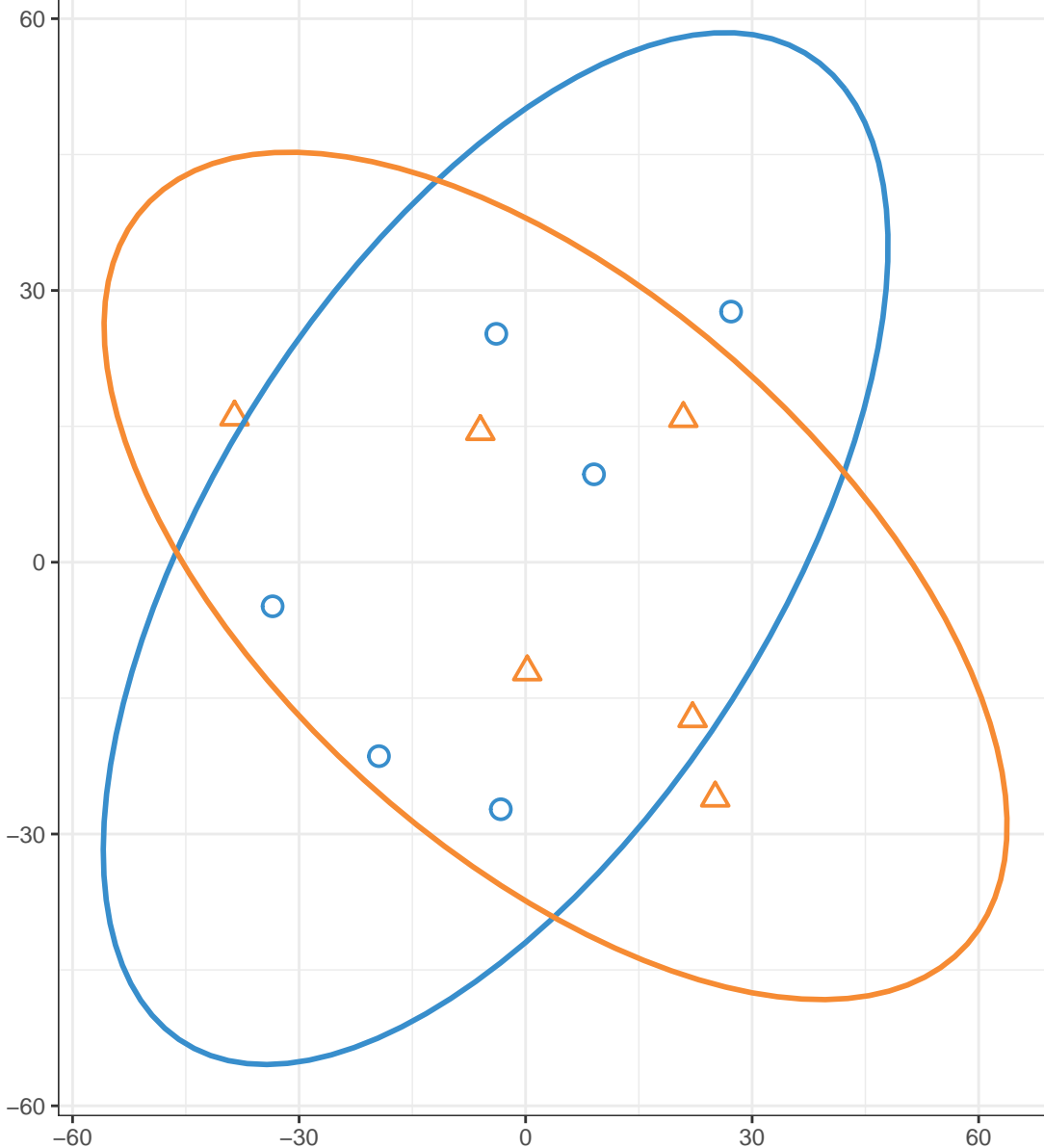


Legend

- RPMI
- △ Sera

transcriptome PLSDA single 2/3

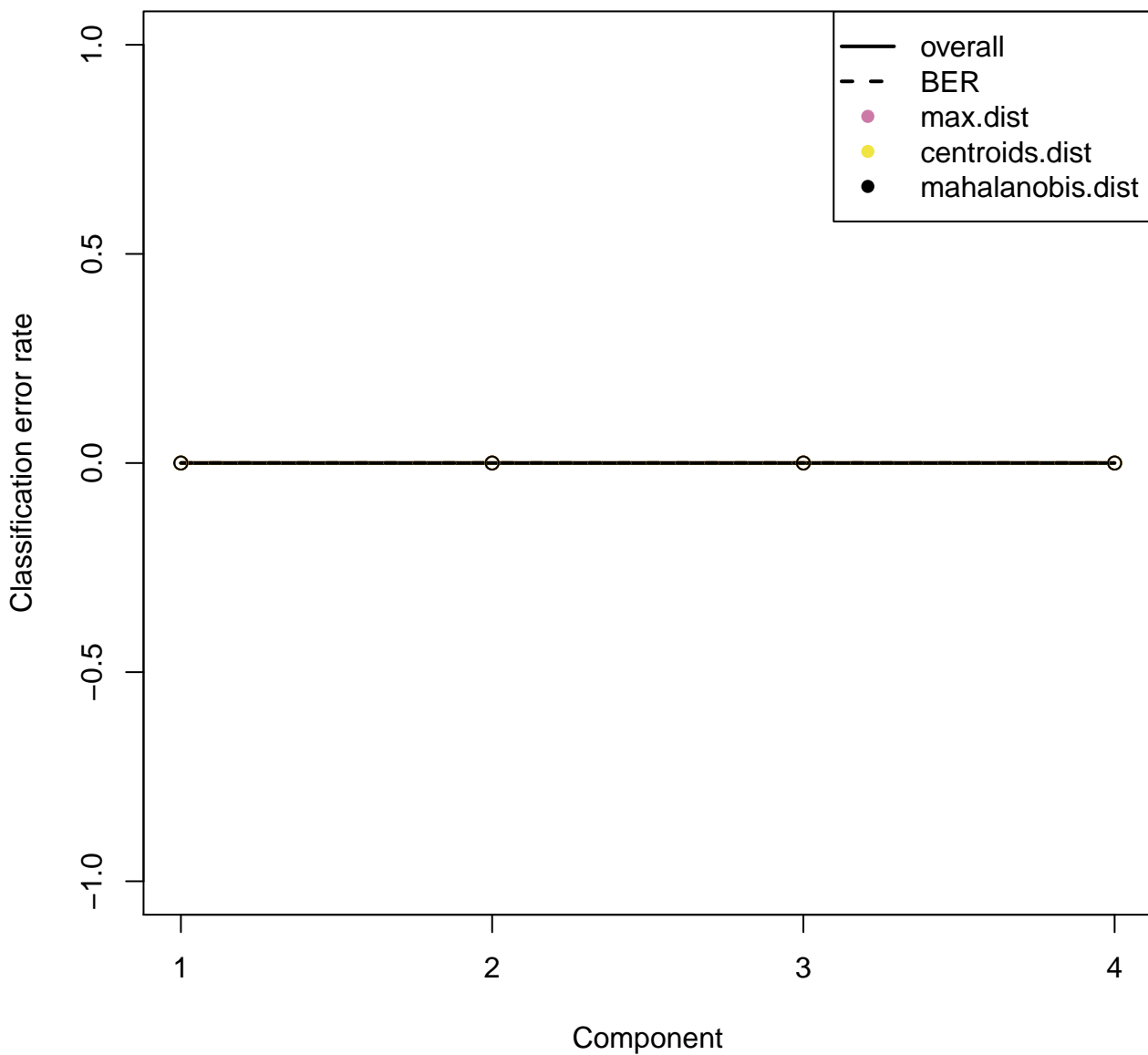
X-variate 3: 9% expl. var



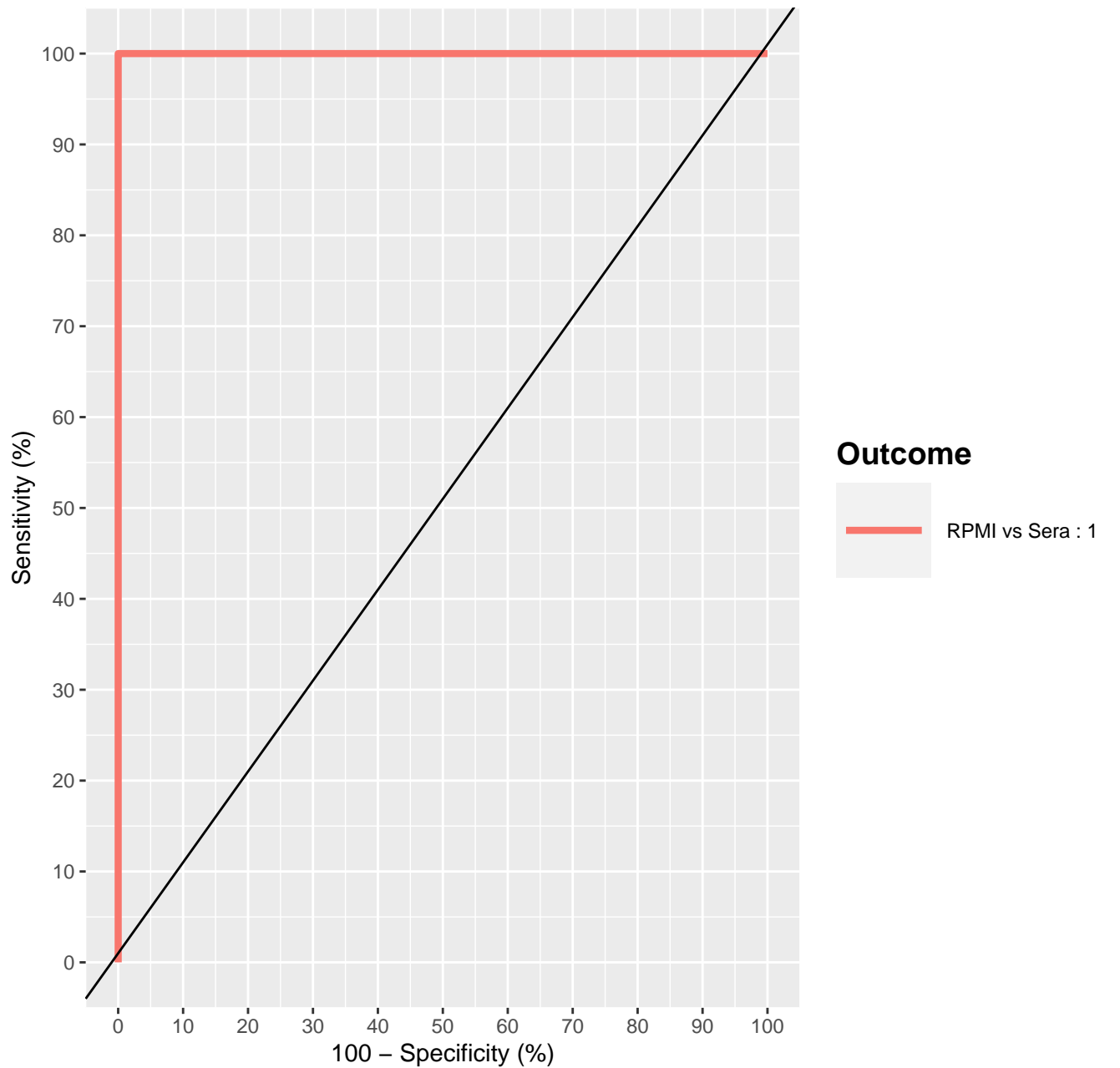
Legend

○ RPMI

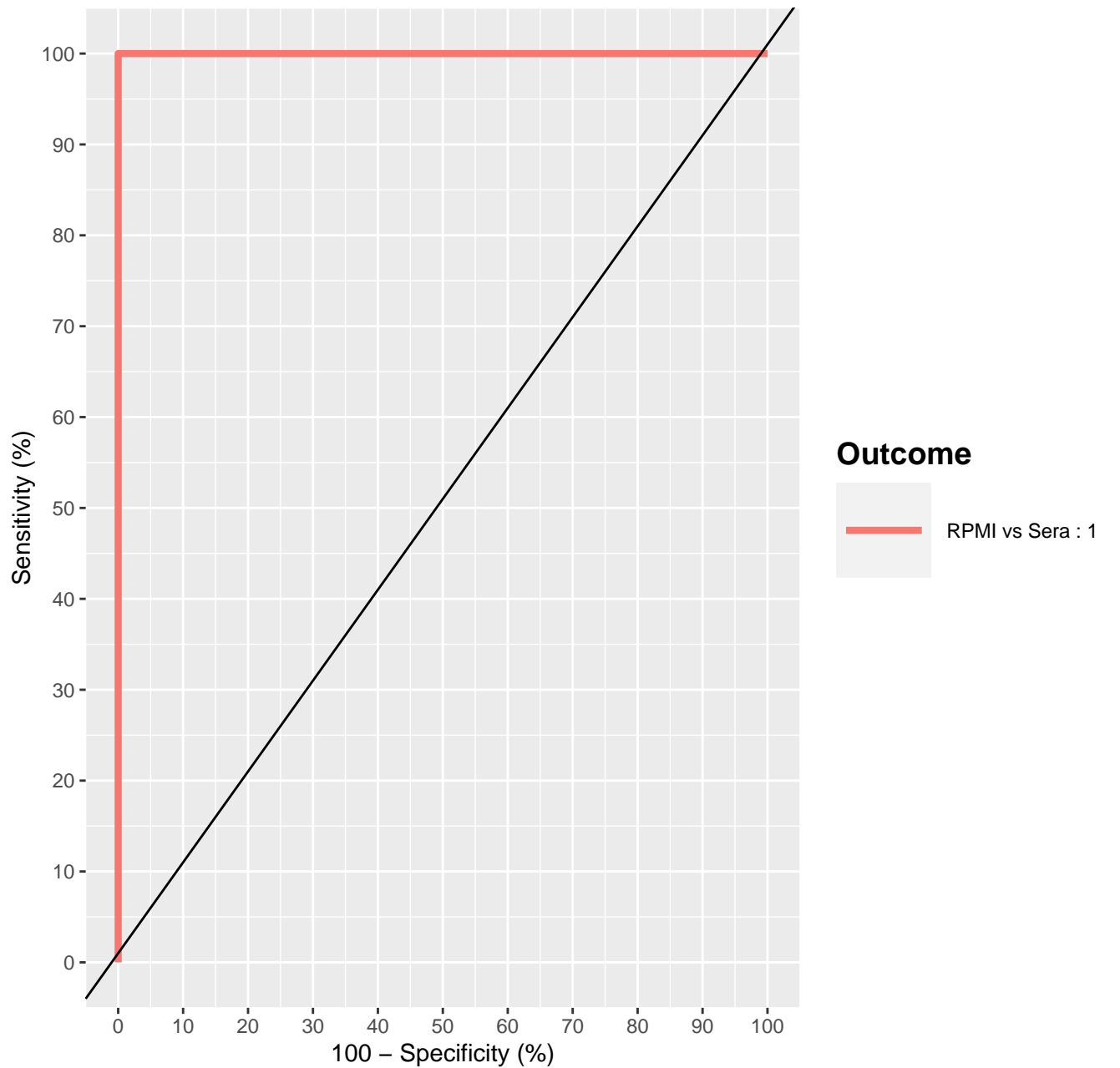
△ Sera



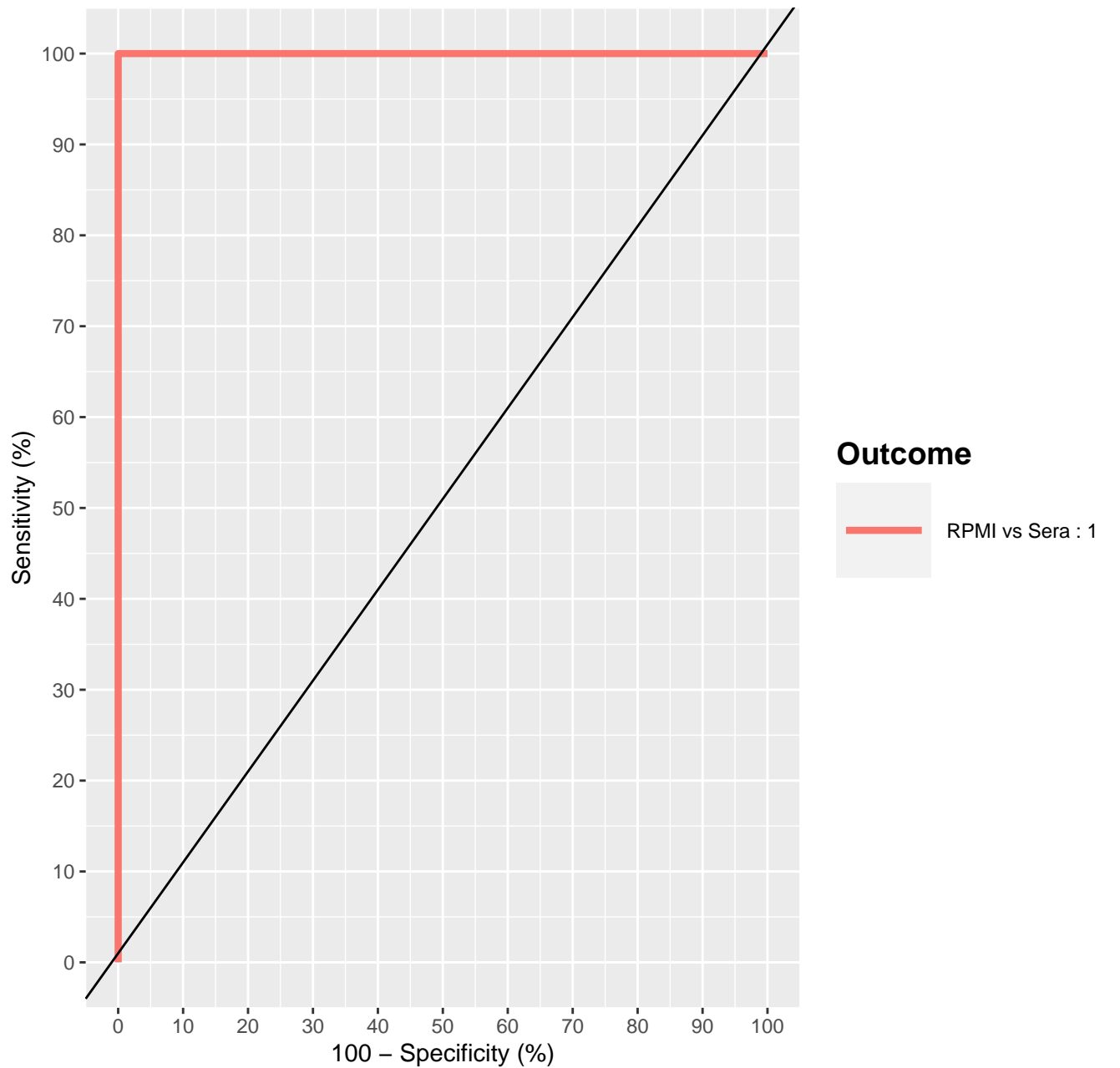
ROC Curve Using Comp(s): 1



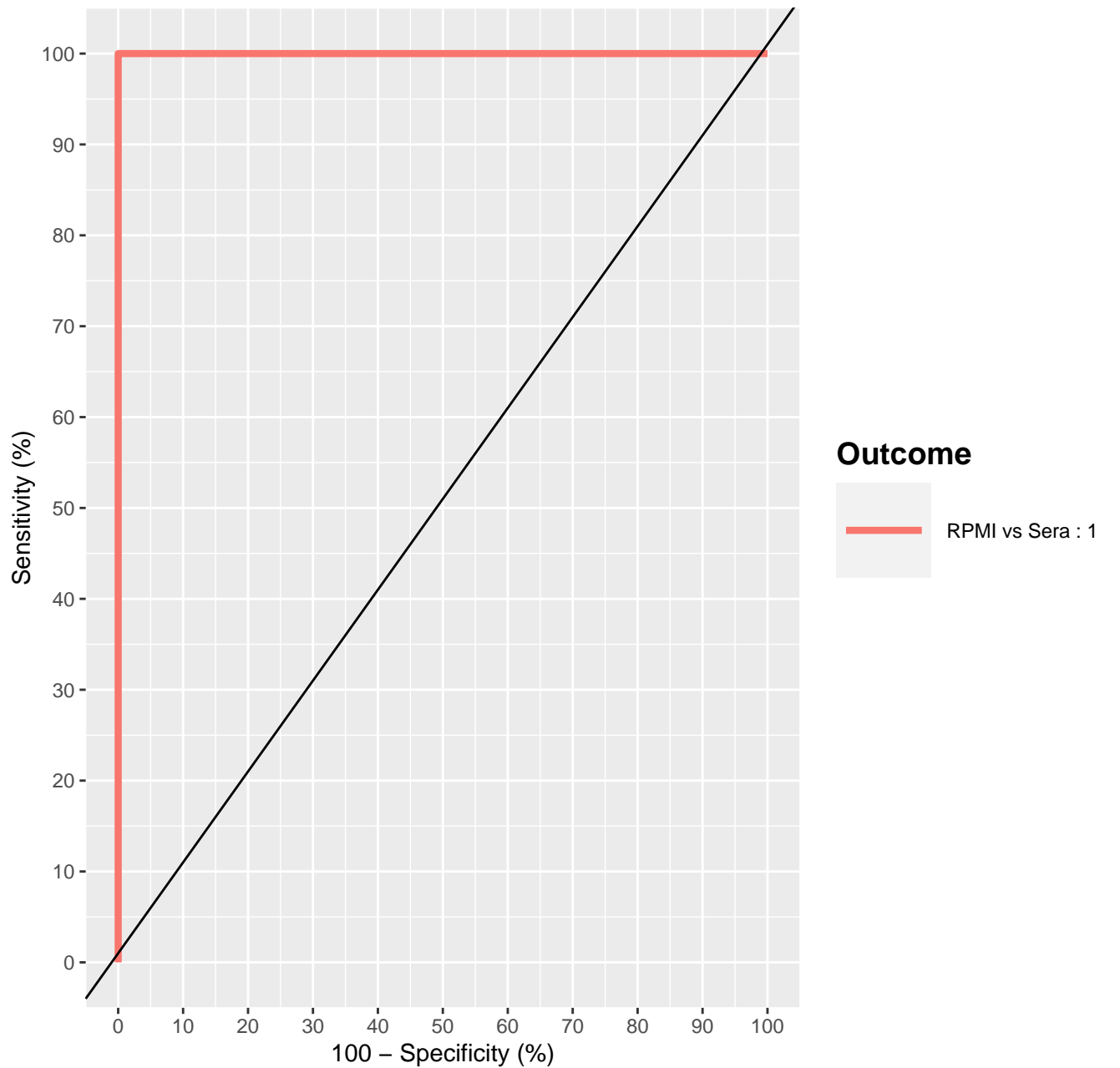
ROC Curve Using Comp(s): 1, 2



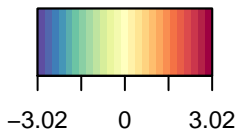
ROC Curve Using Comp(s): 1, 2, 3



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



Color key

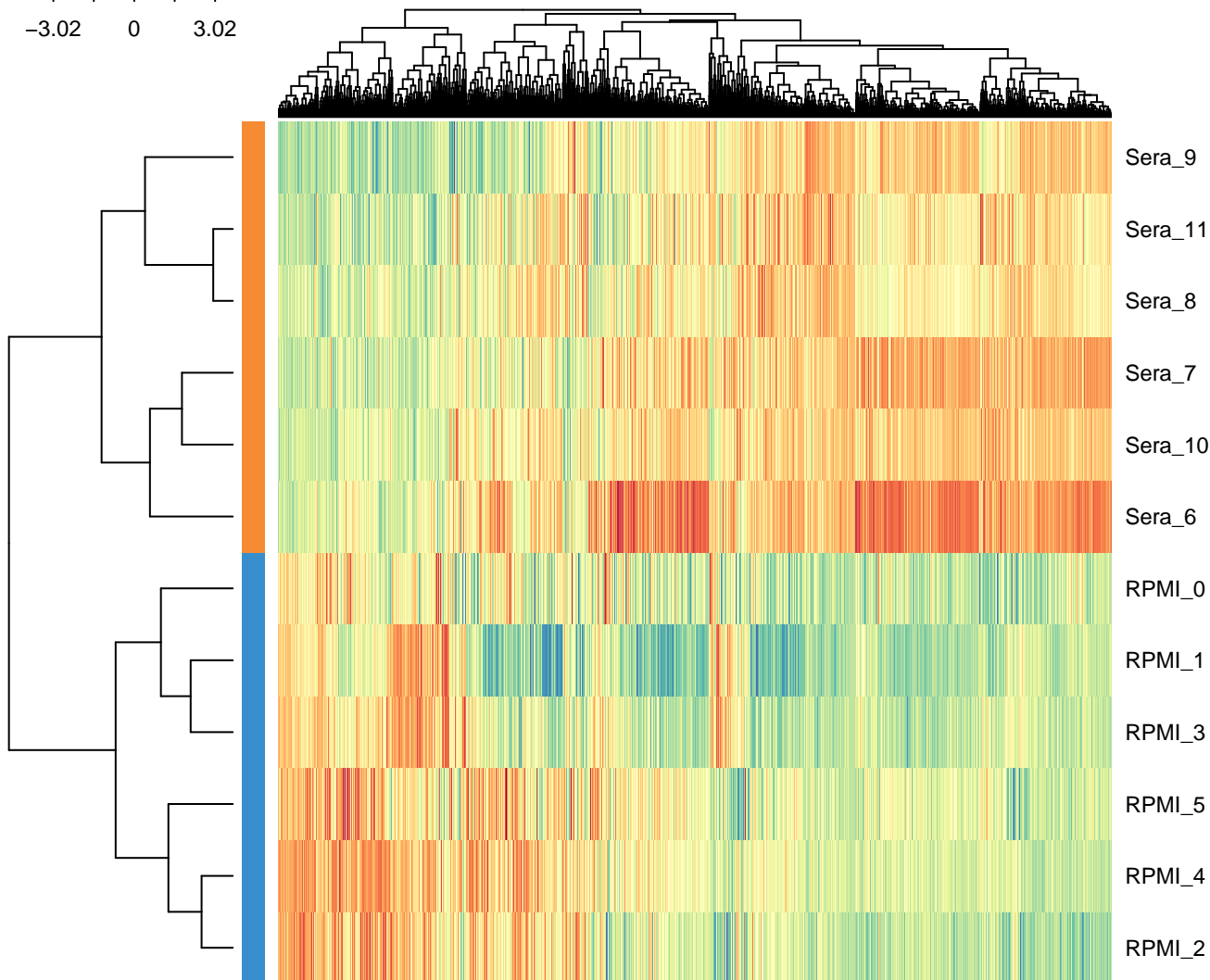


PLSDA

Status

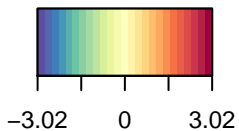
■ RPMI

■ Sera



PLSDA Component 1

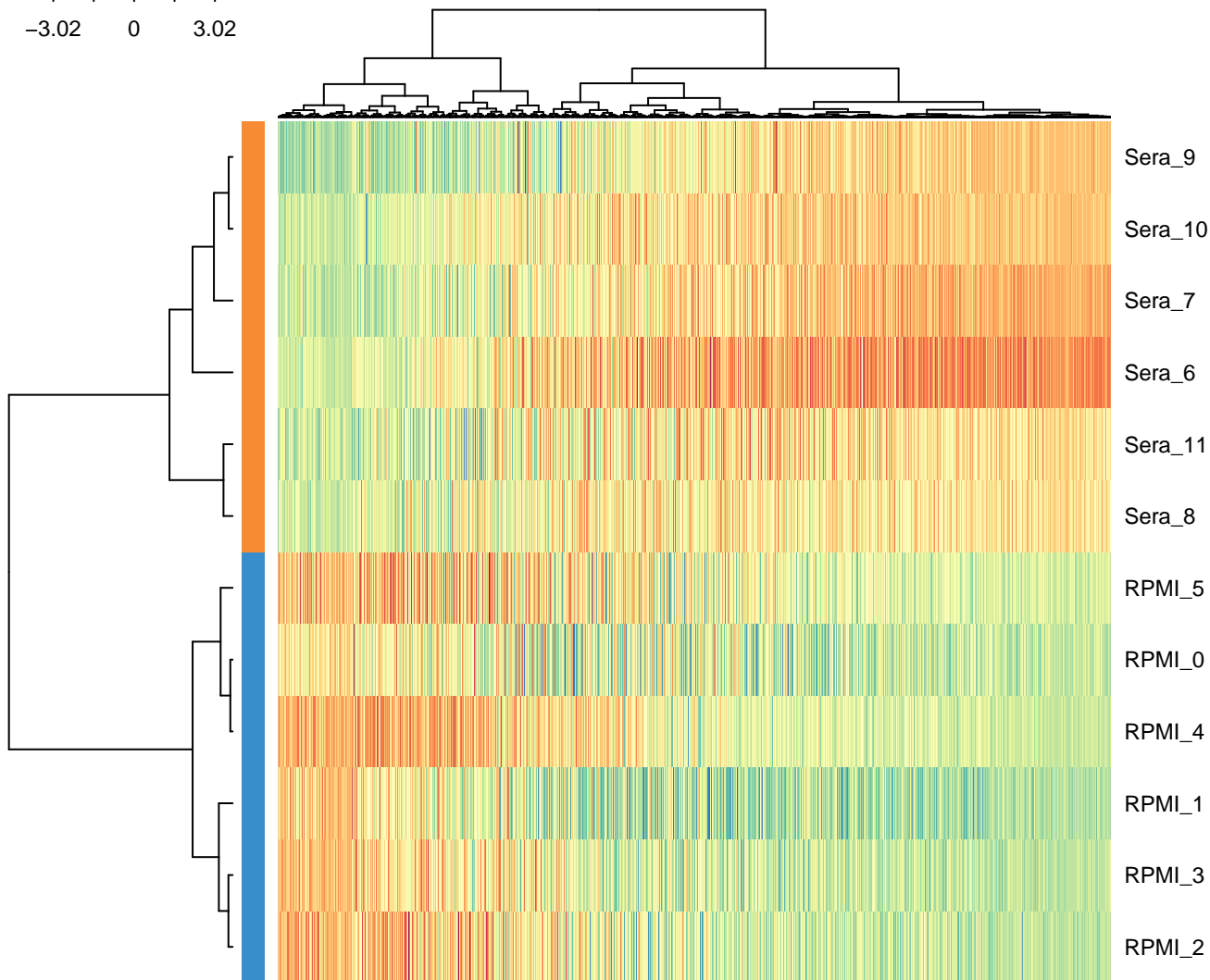
Color key



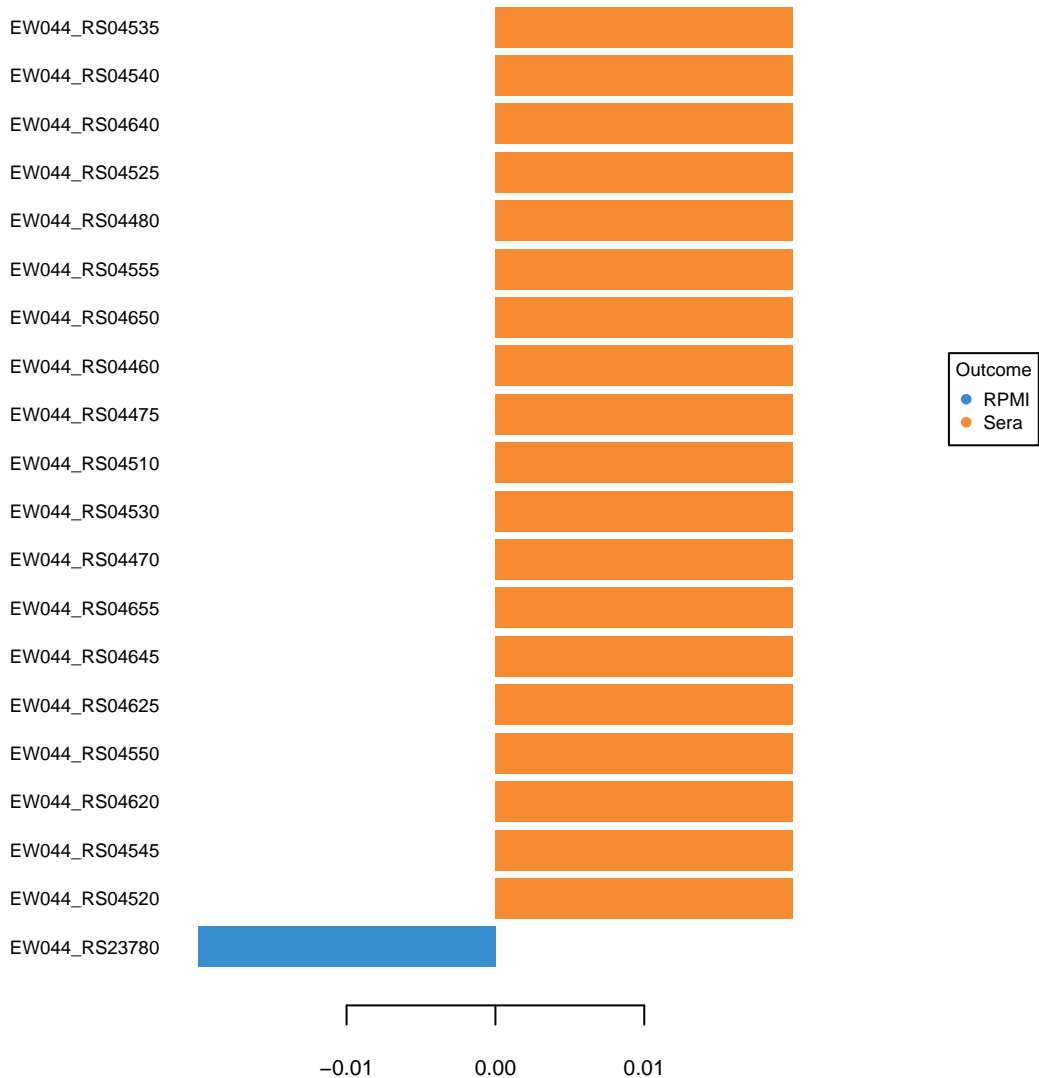
Status

RPMI

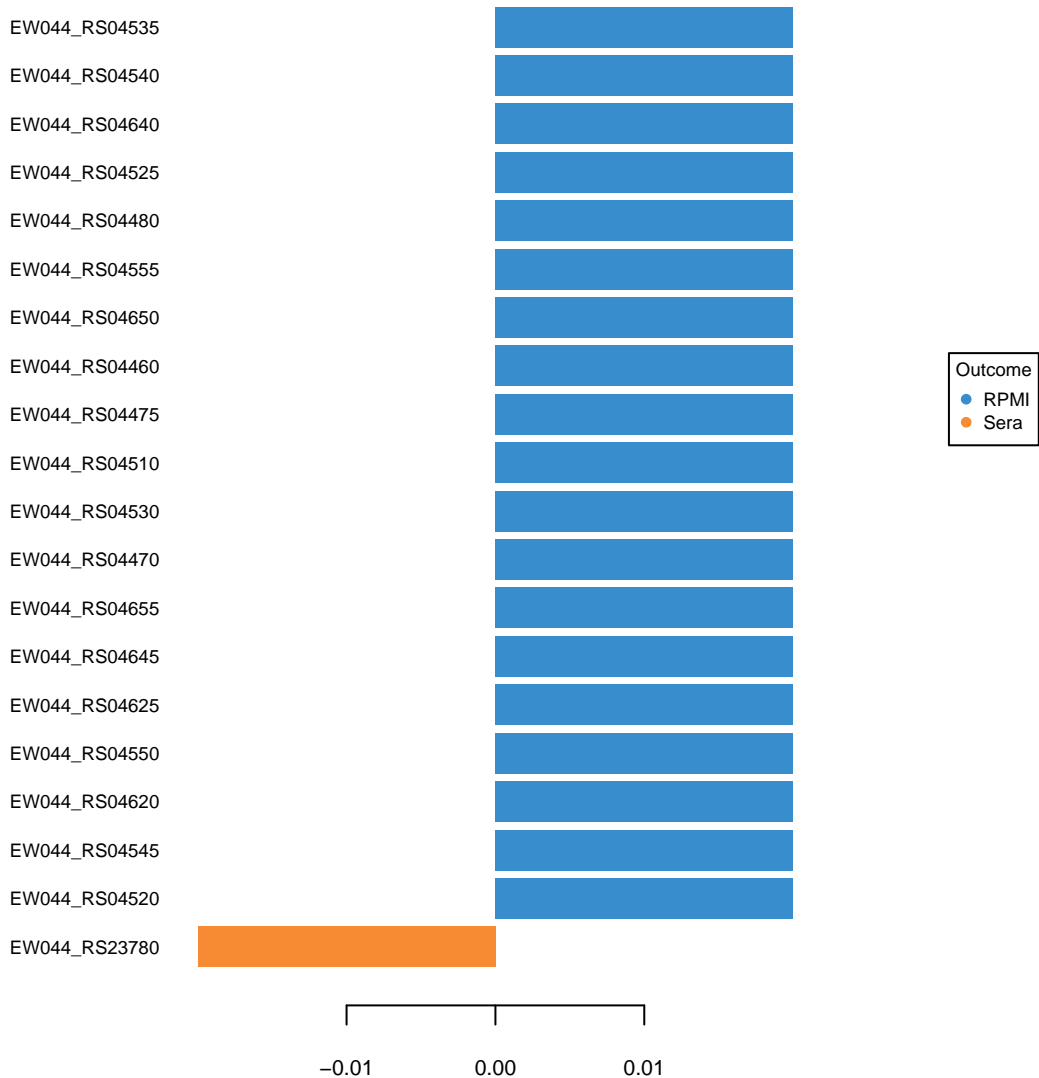
Sera



transcriptome 1 PLSDA max load

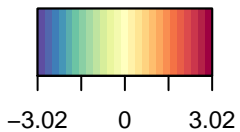


transcriptome 1 PLSDA min load



PLSDA Component 2

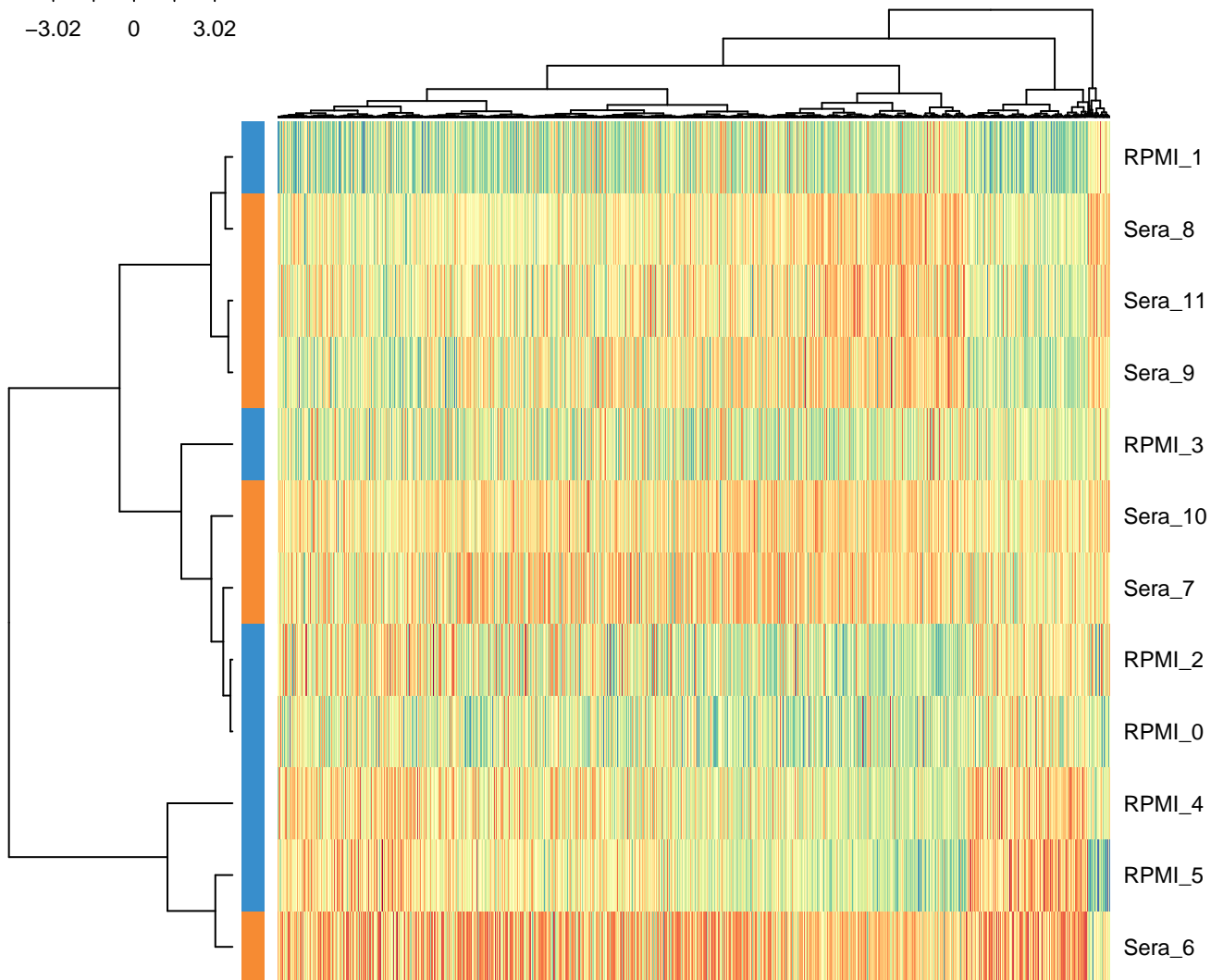
Color key



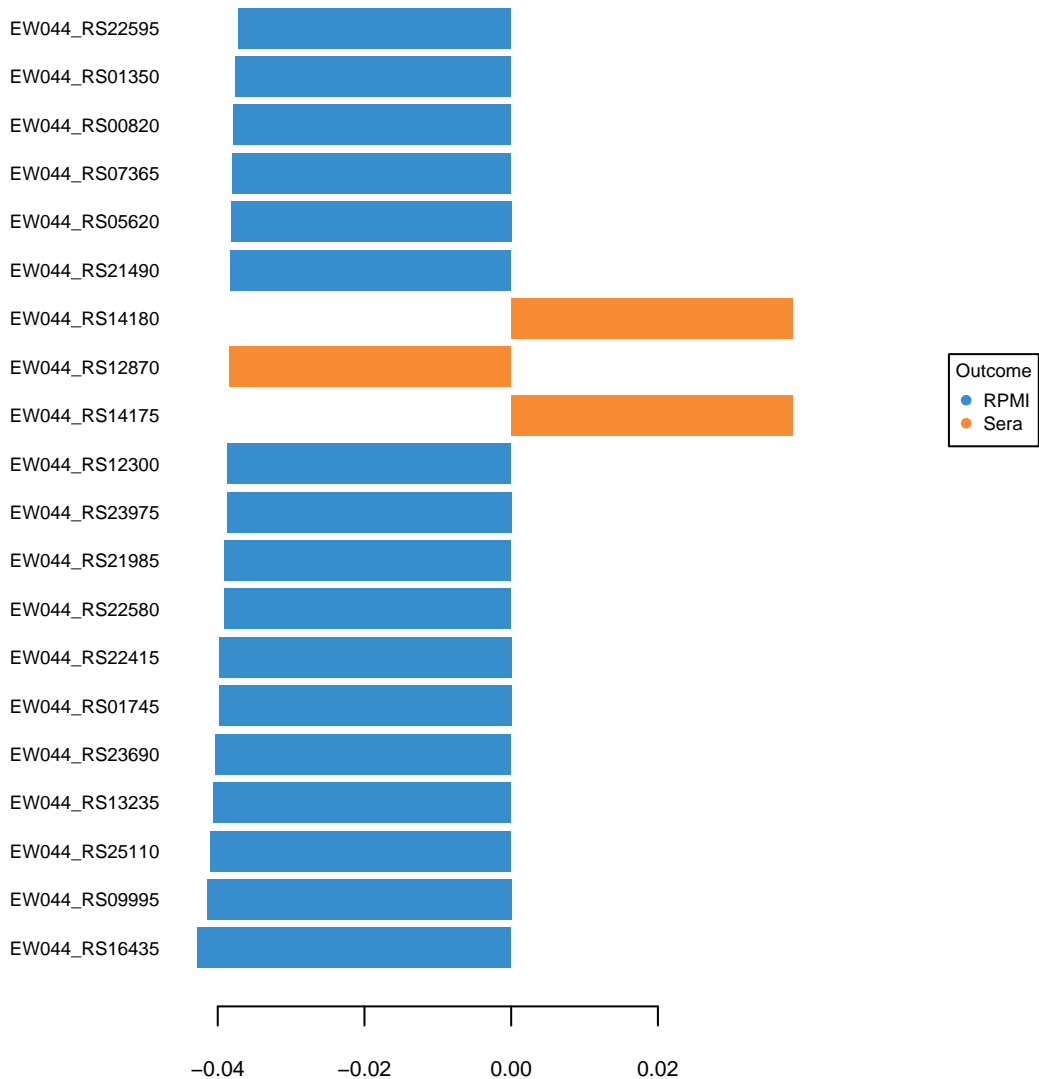
Status

RPMI

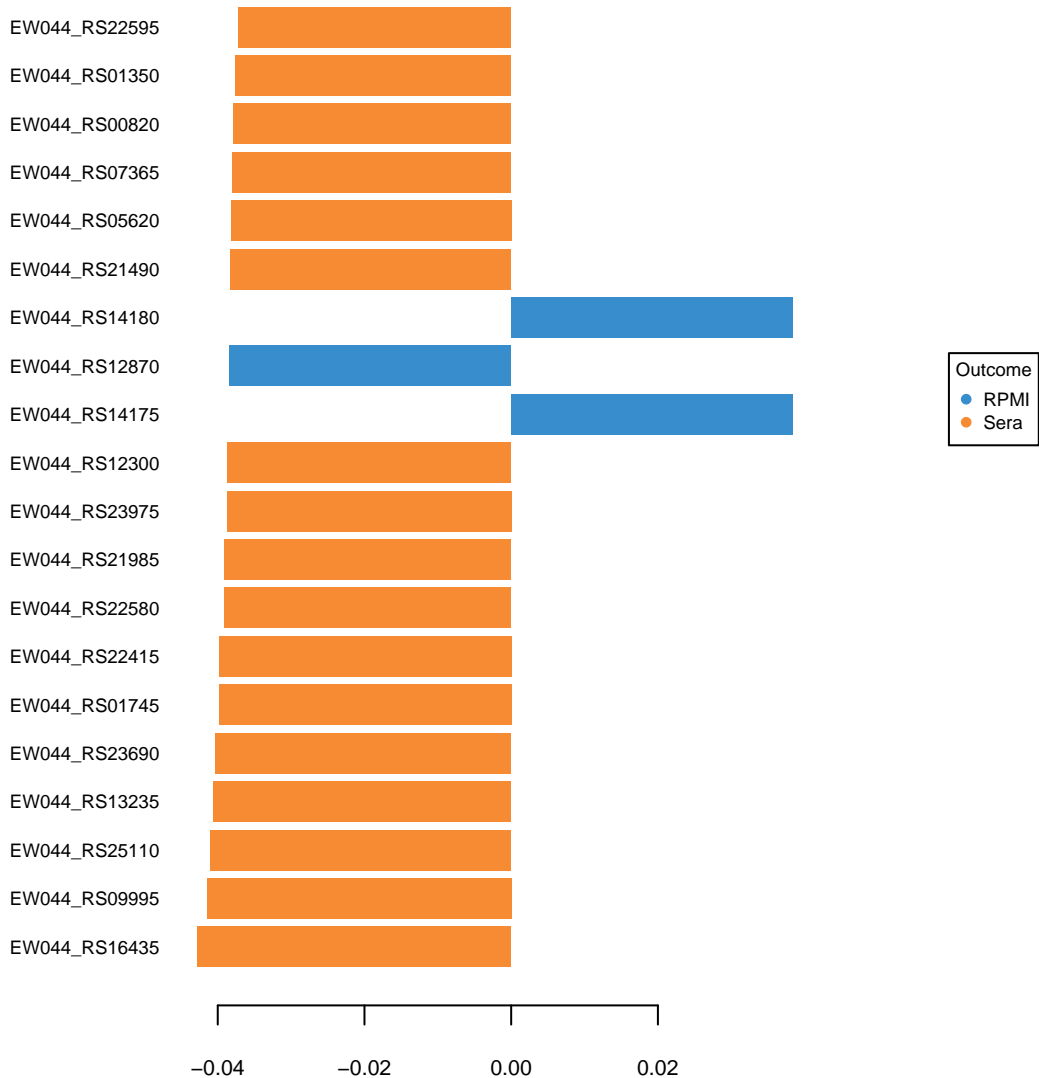
Sera



transcriptome 2 PLSDA max load

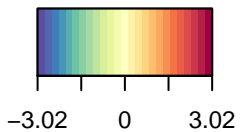


transcriptome 2 PLSDA min load



PLSDA Component 3

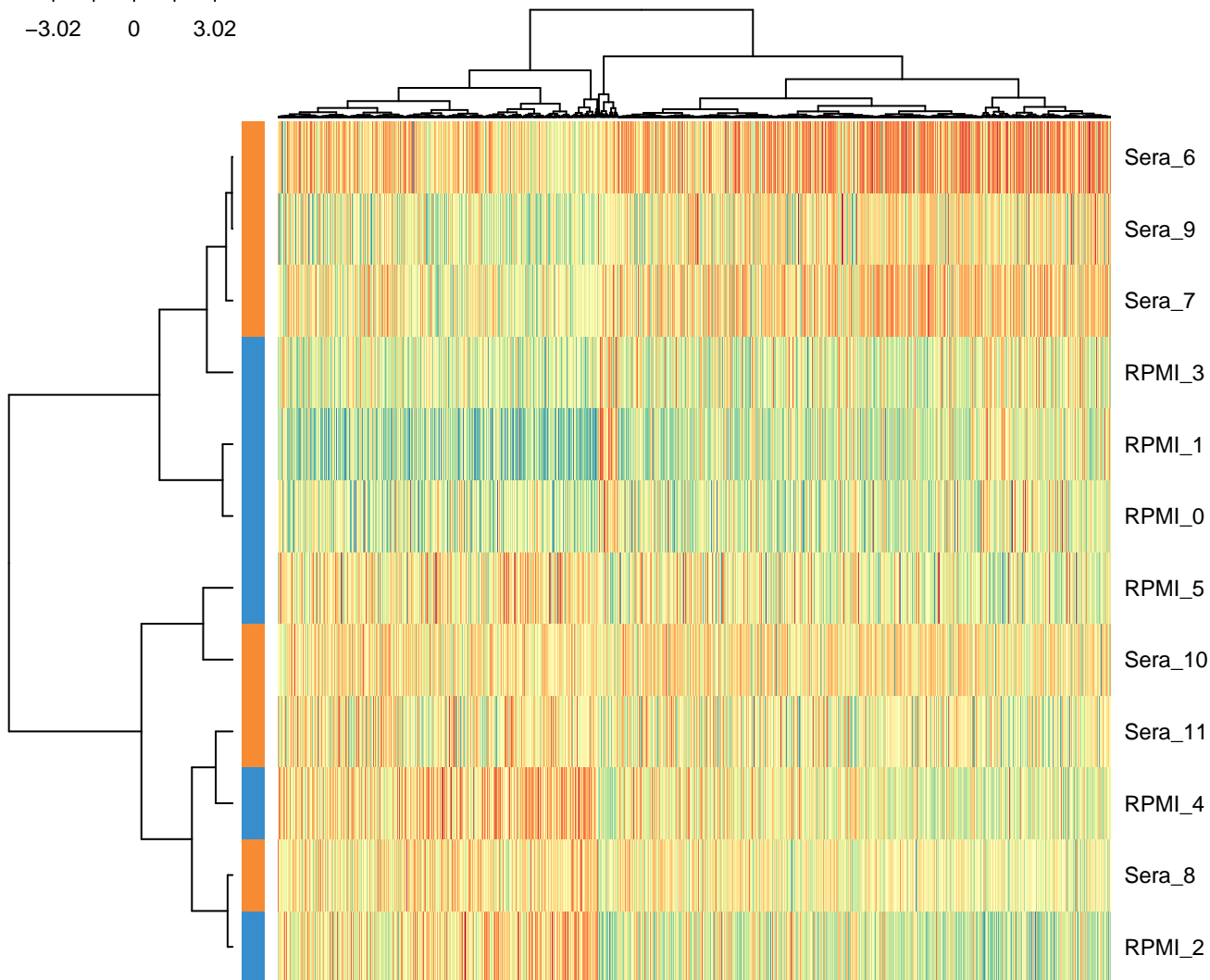
Color key



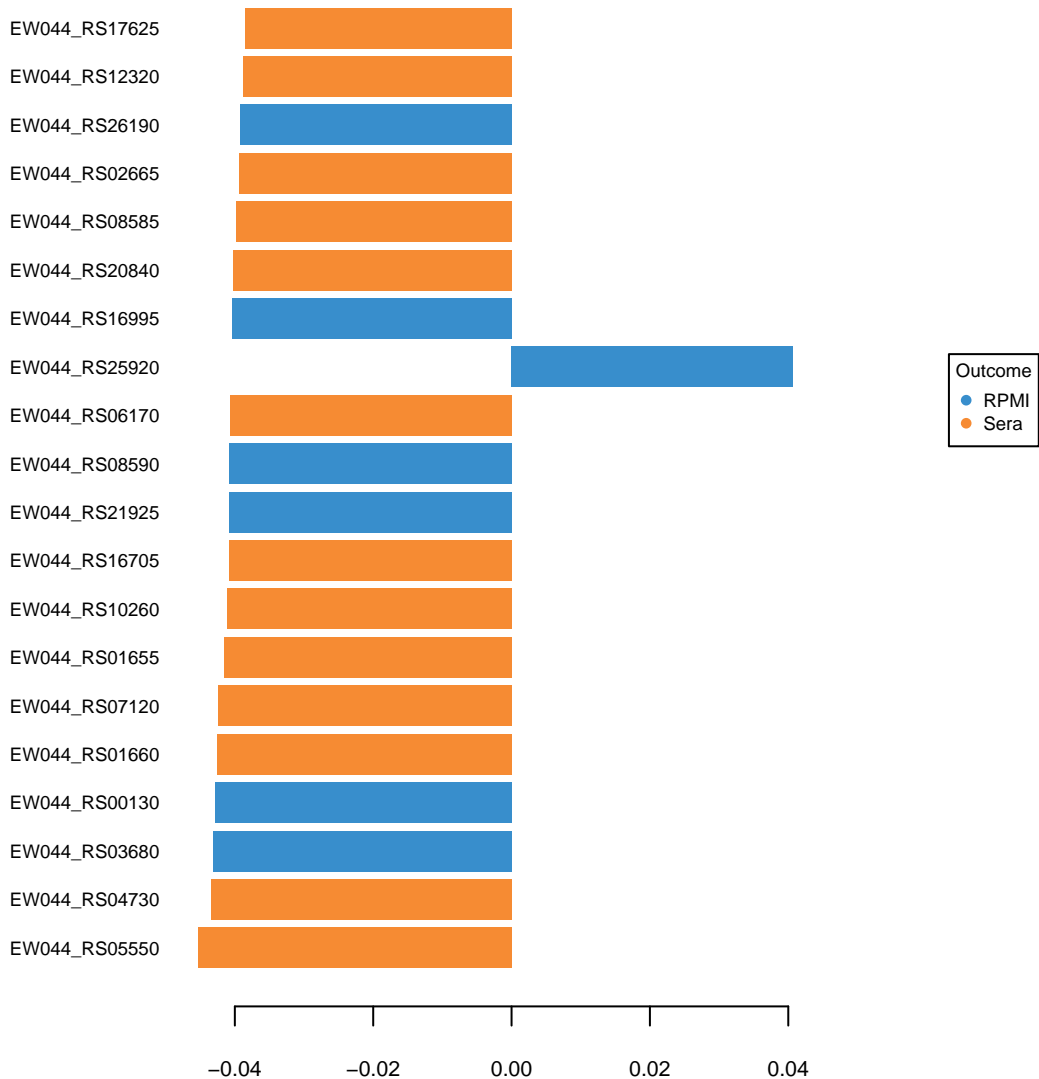
Status

RPMI

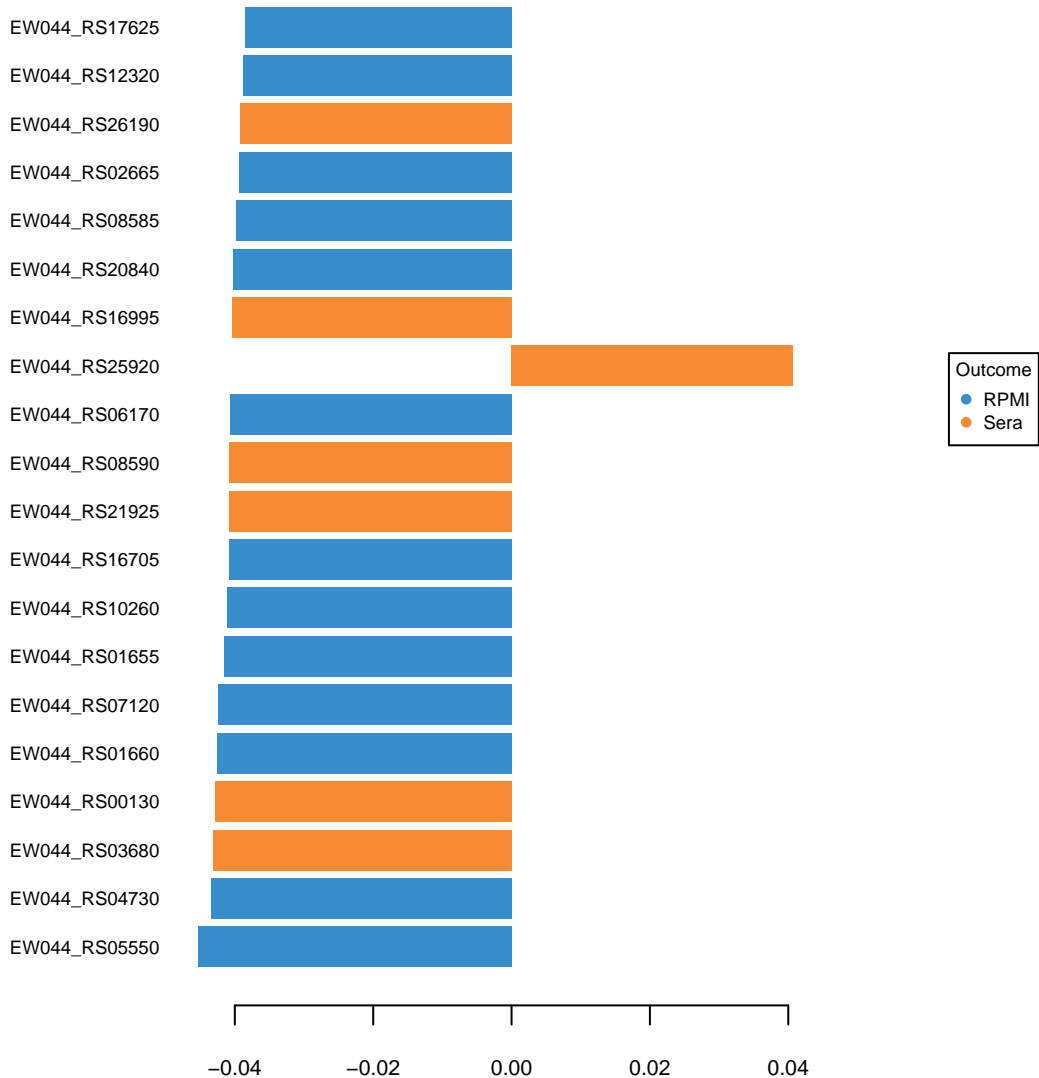
Sera



transcriptome 3 PLSDA max load

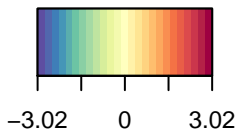


transcriptome 3 PLSDA min load



PLSDA Component 4

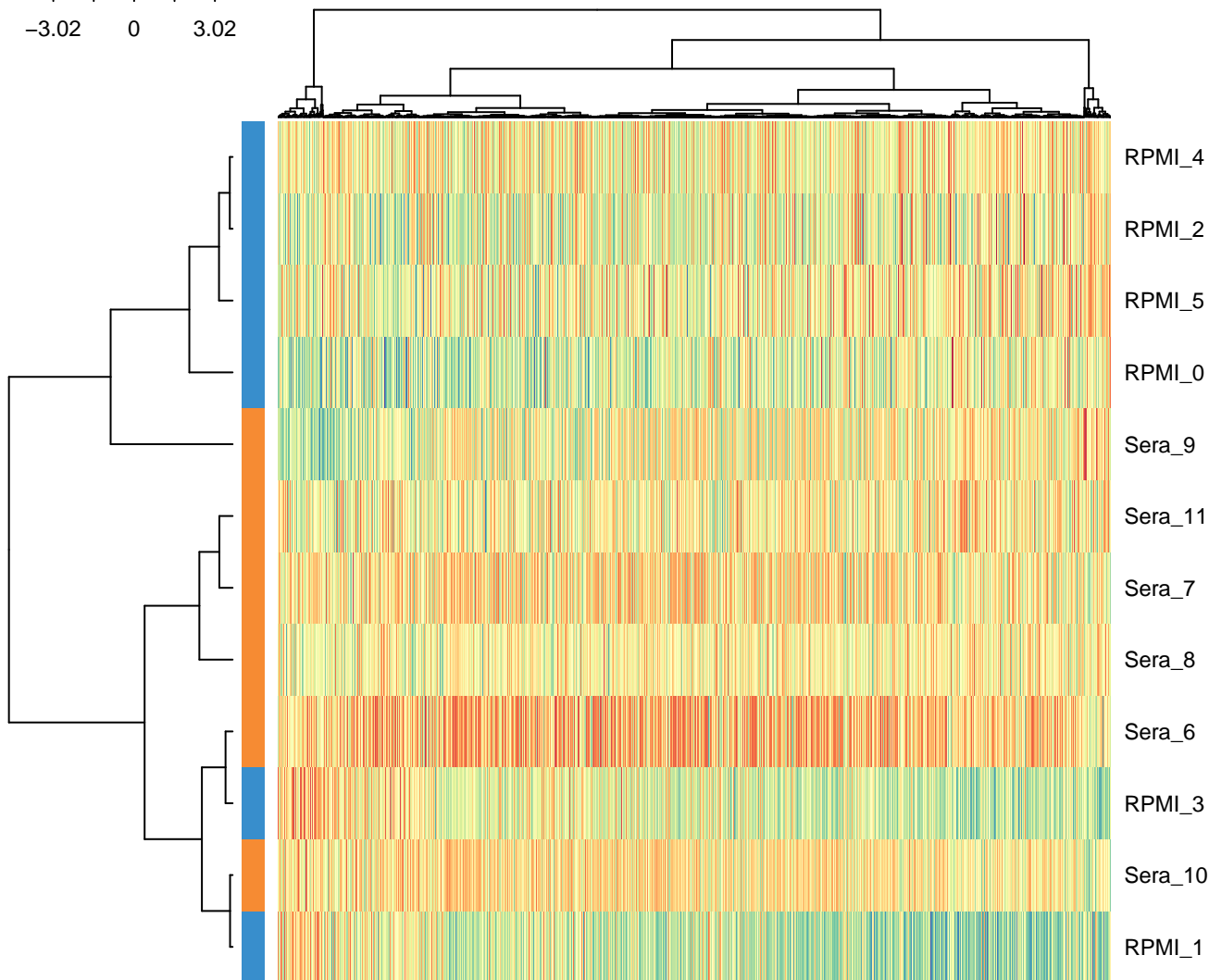
Color key



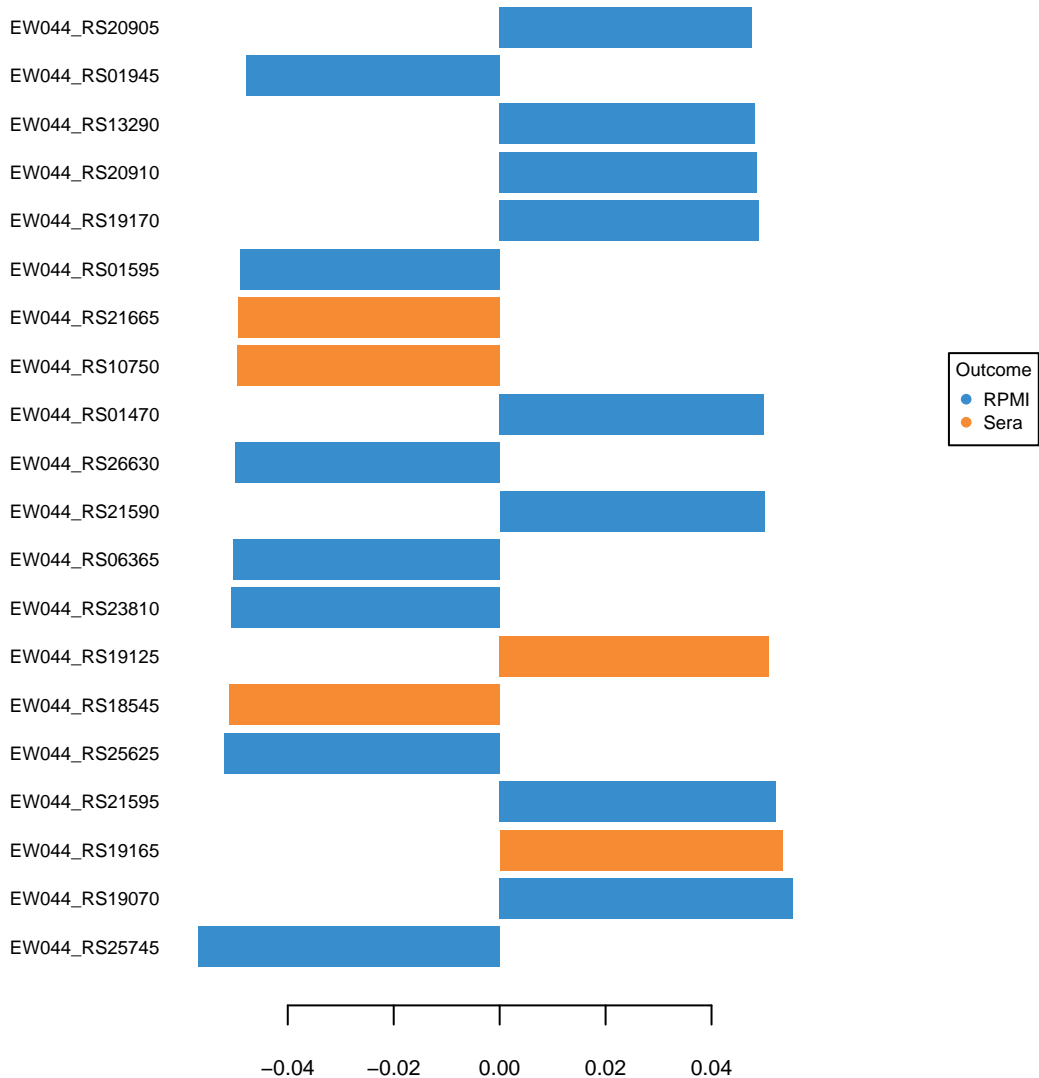
Status

RPMI

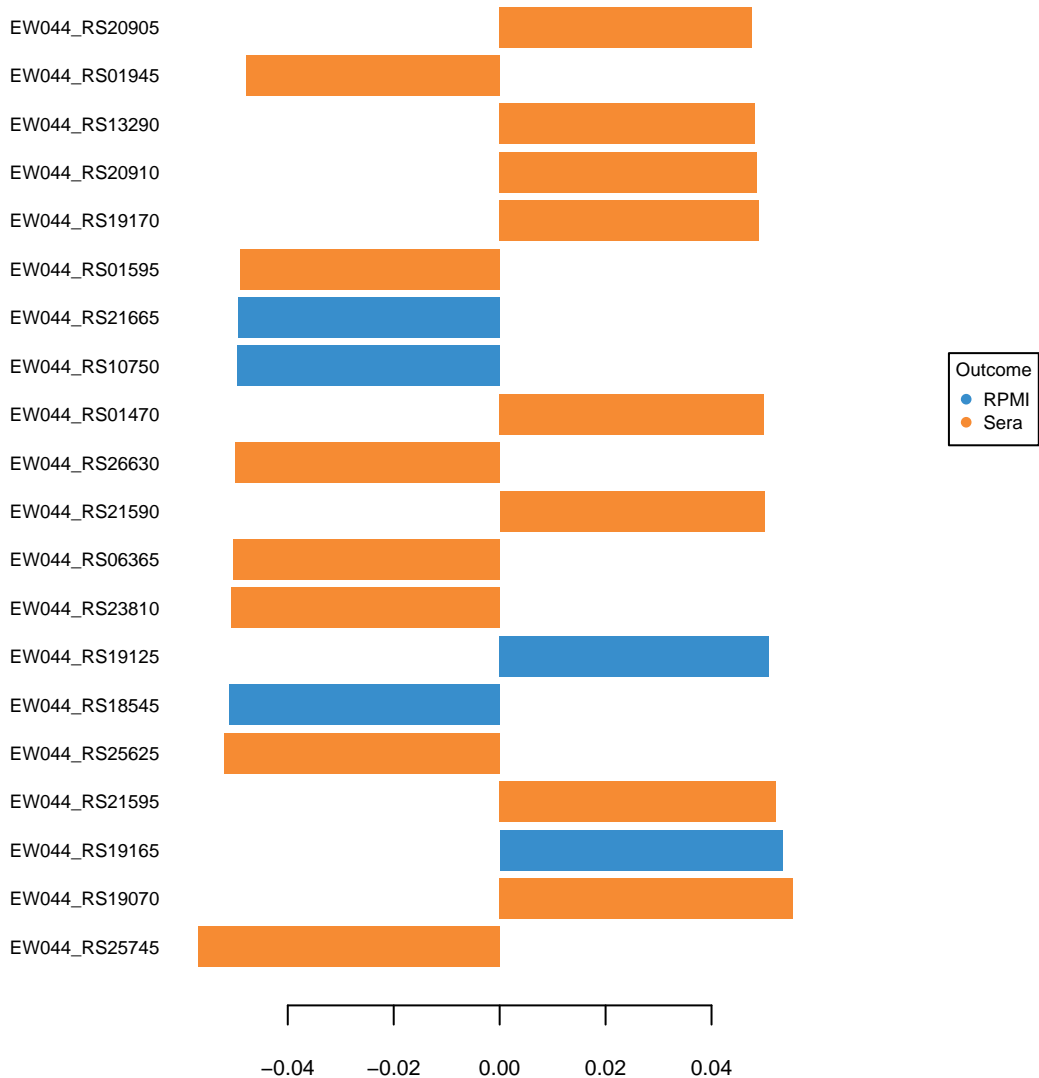
Sera

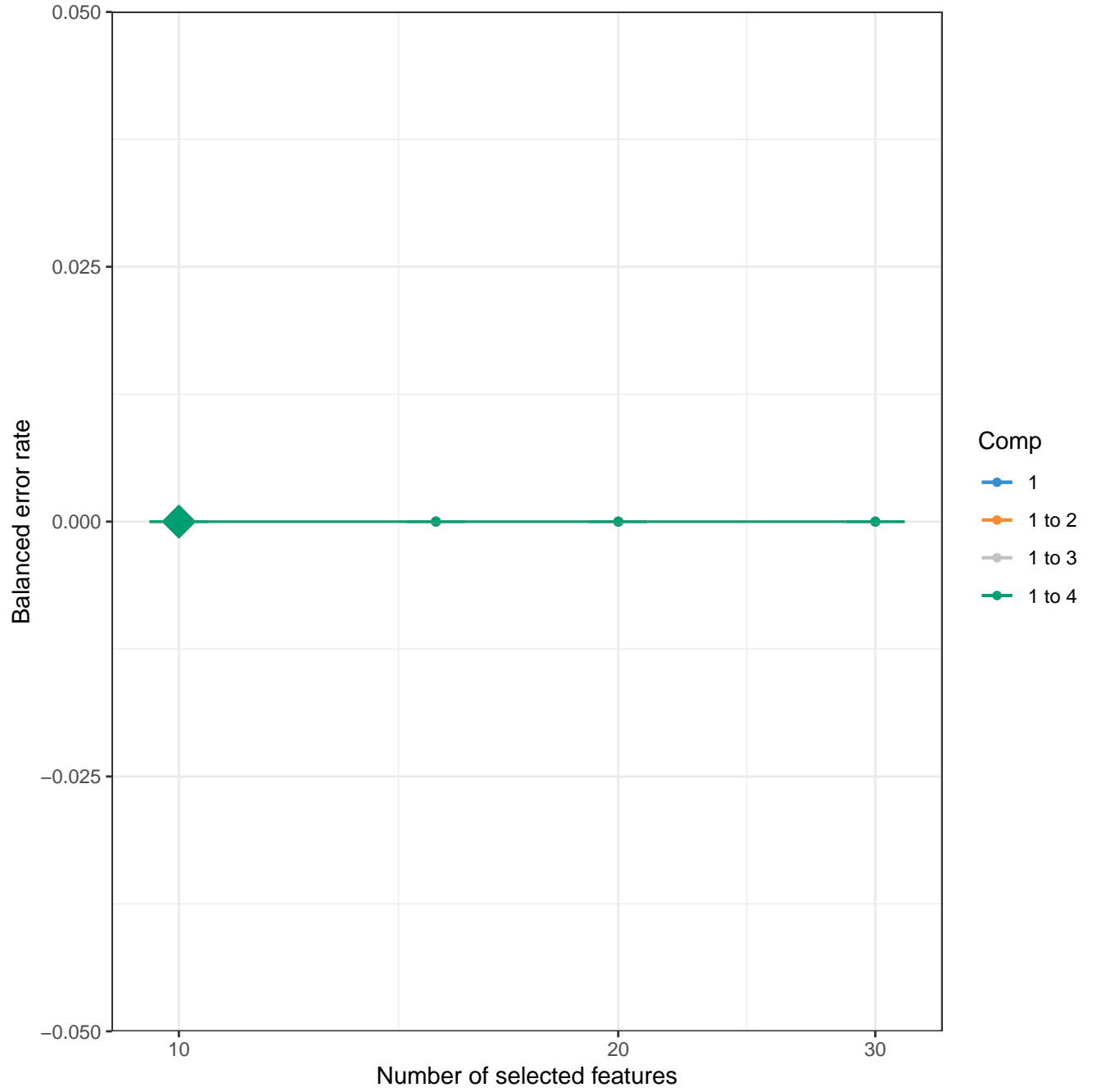


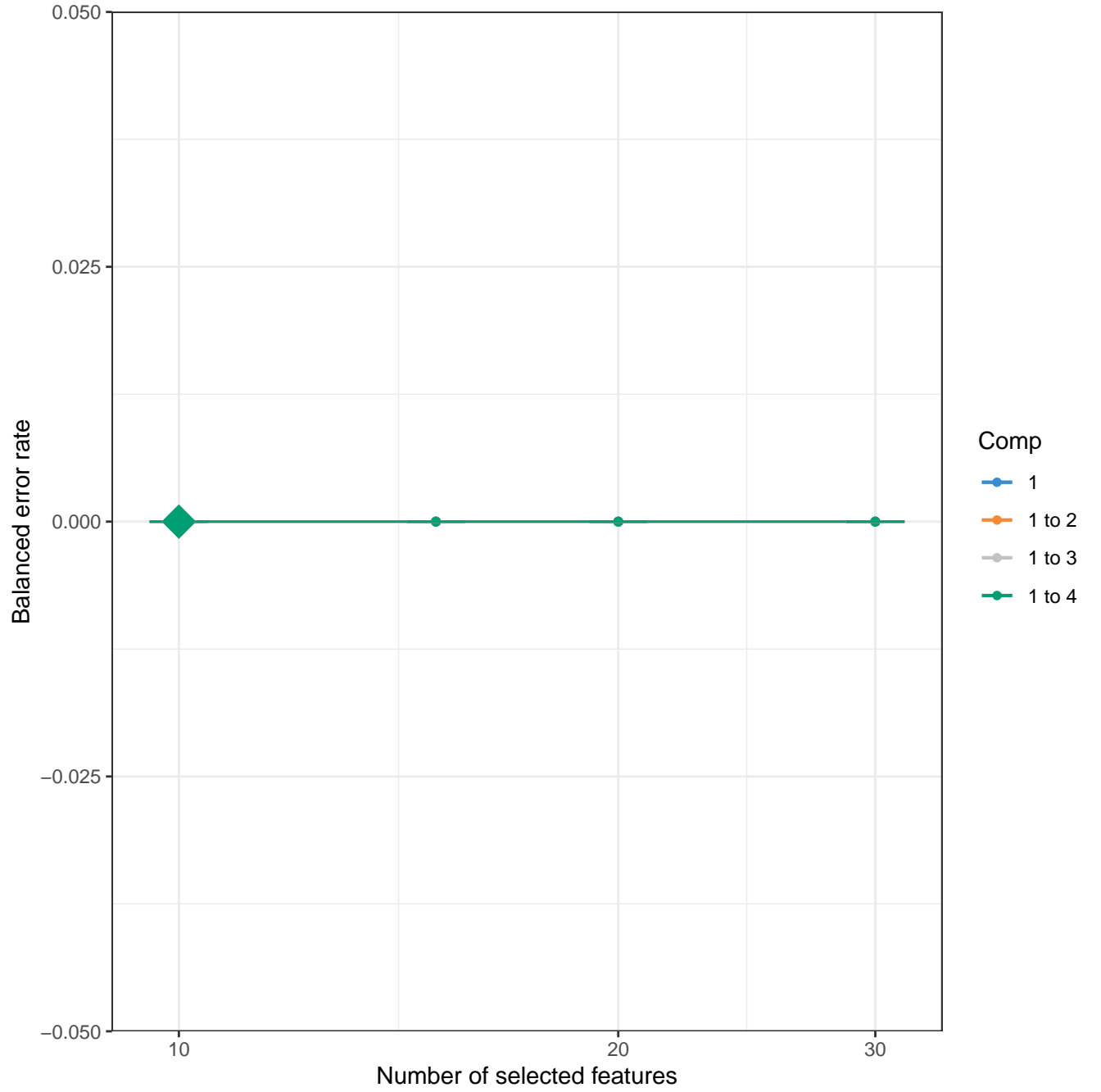
transcriptome 4 PLSDA max load

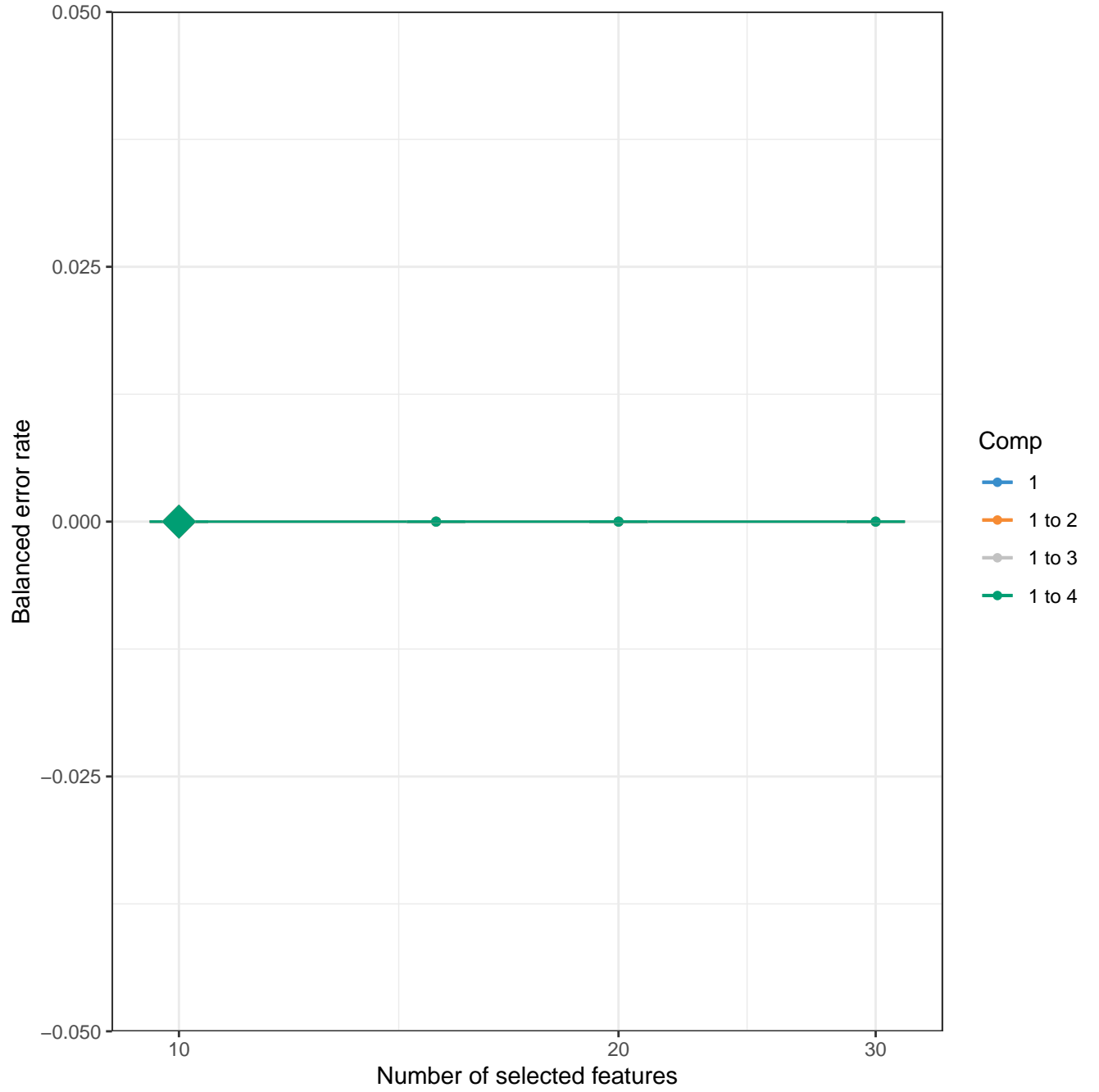


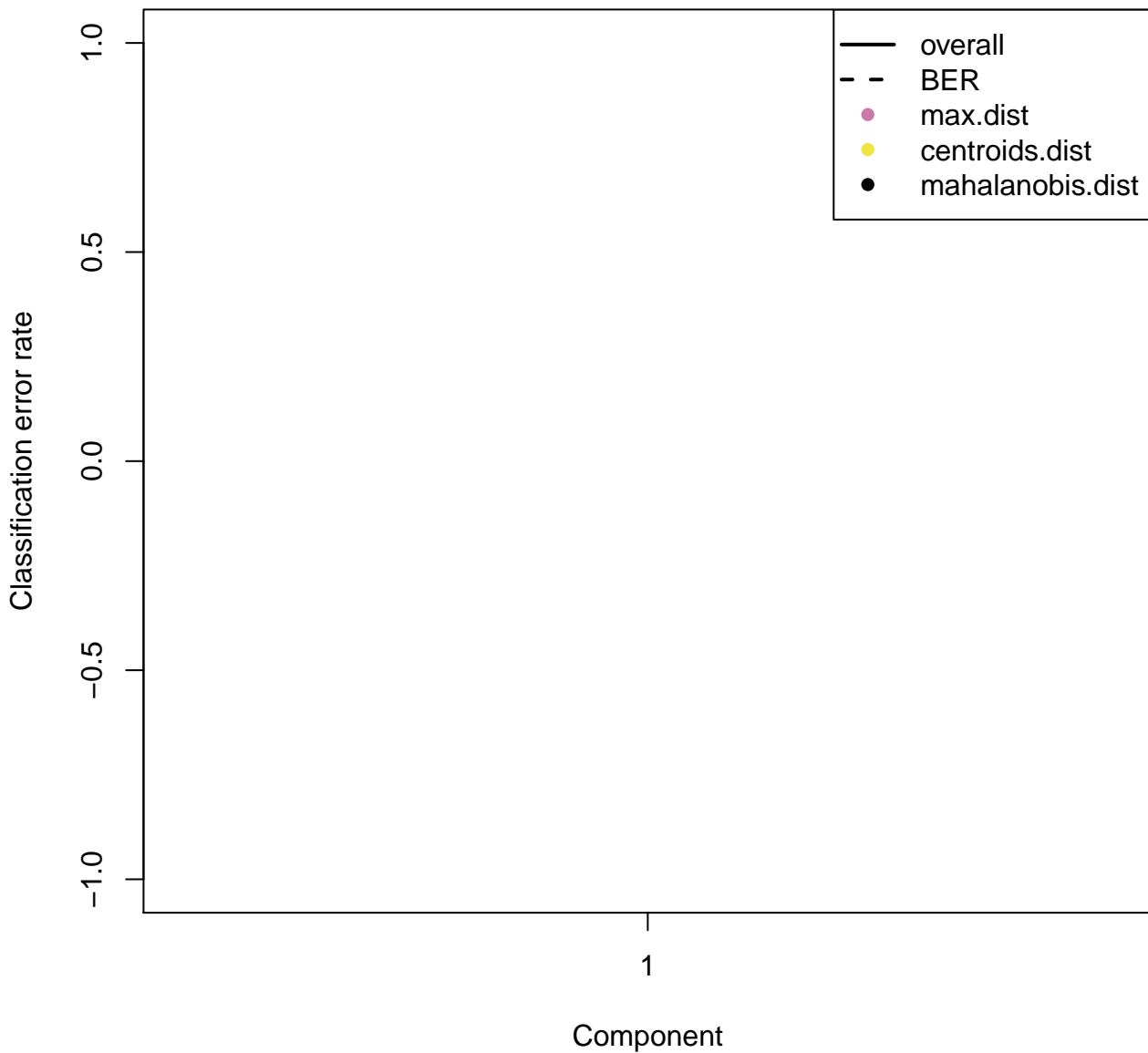
transcriptome 4 PLSDA min load



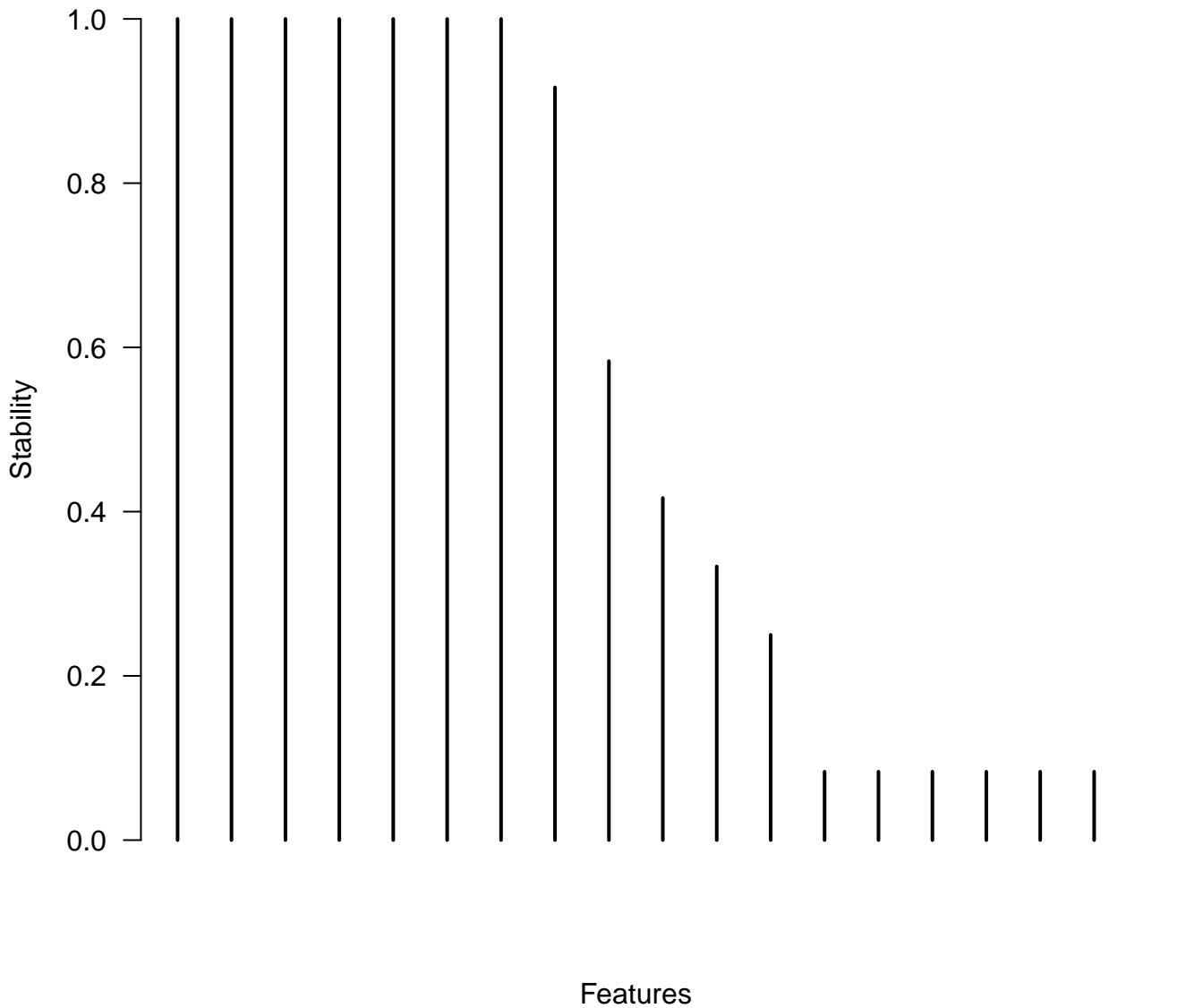




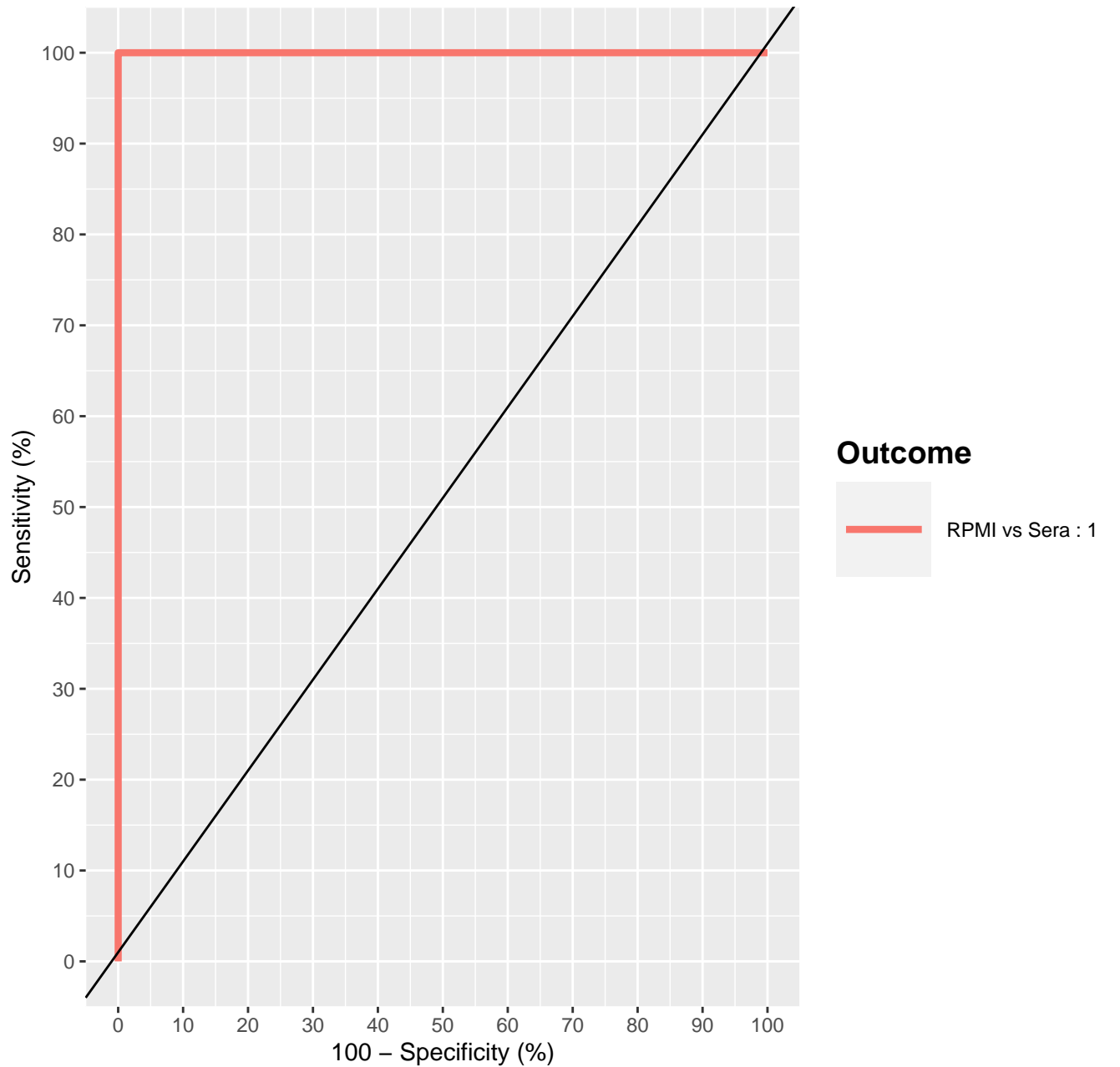




Comp 1

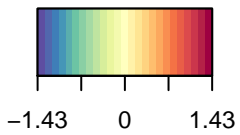


ROC Curve Using Comp(s): 1



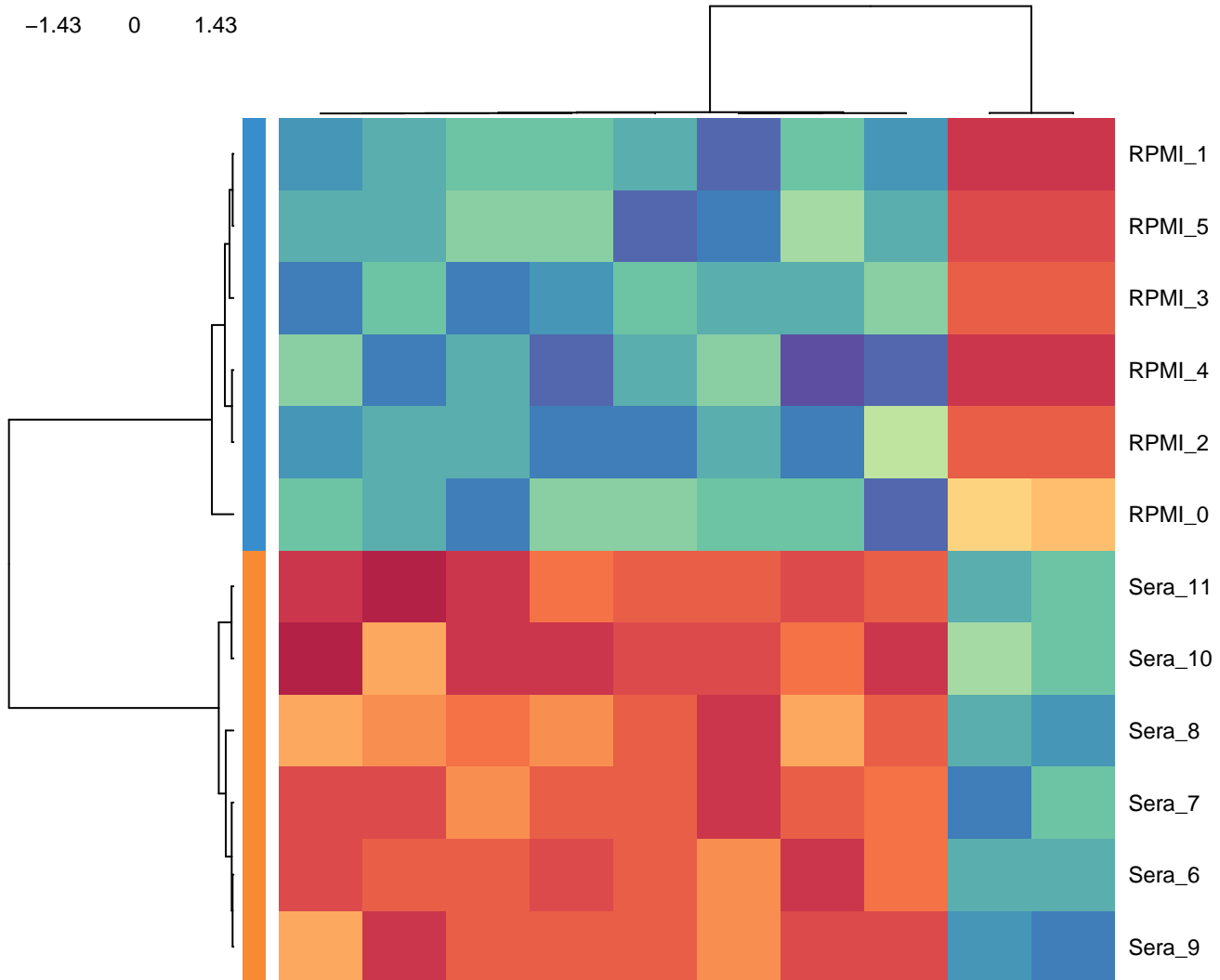
sPLSDA

Color key



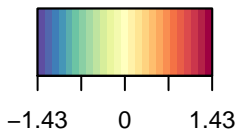
Status

- RPMI
- Sera



sPLSDA Component 1

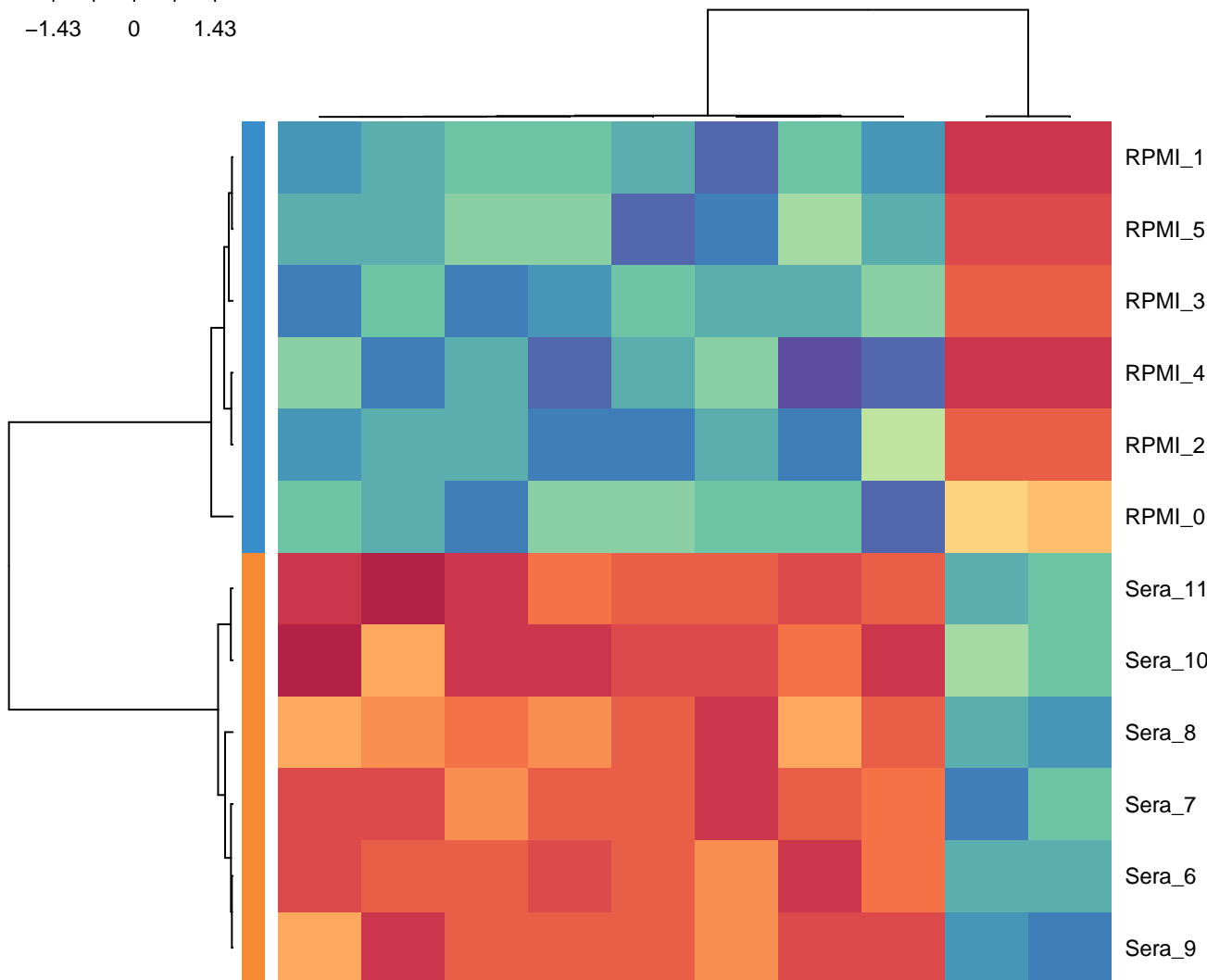
Color key



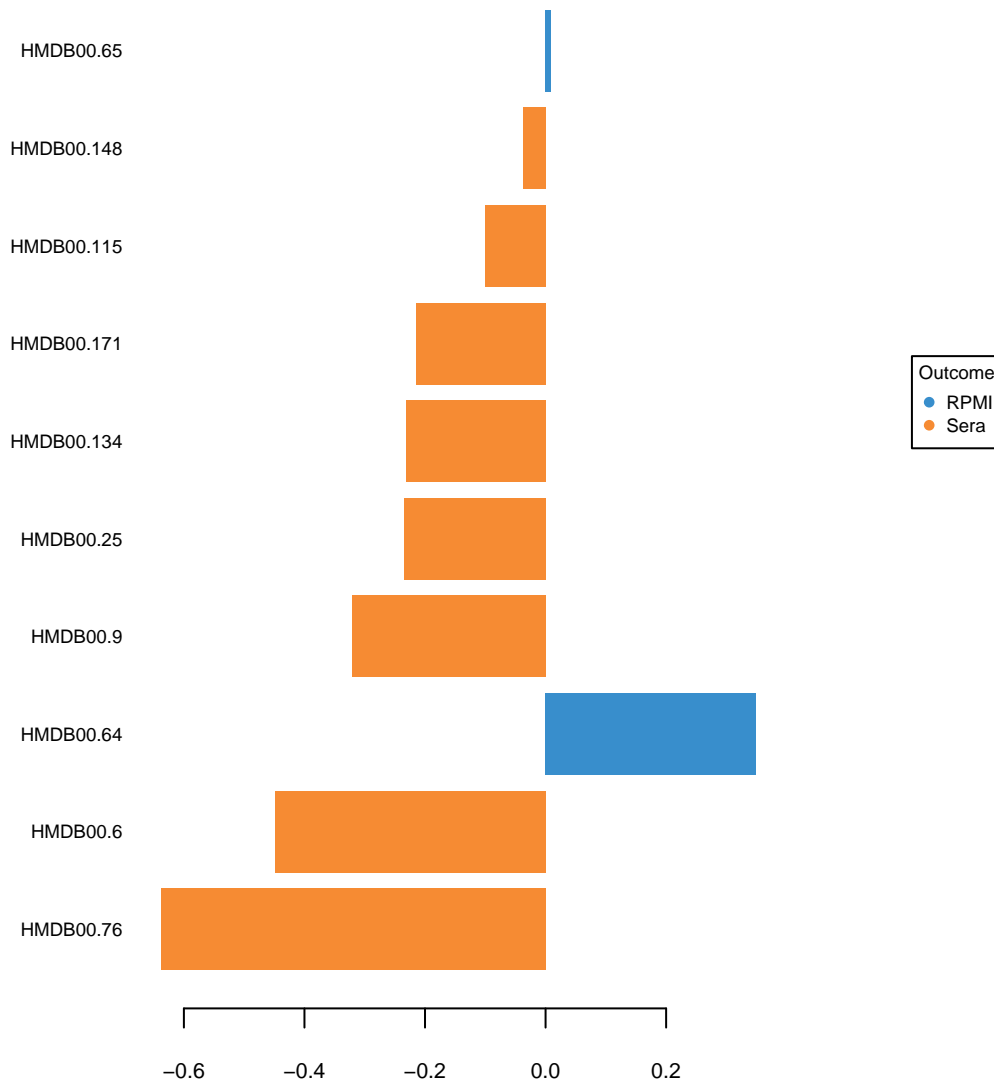
Status

RPMI

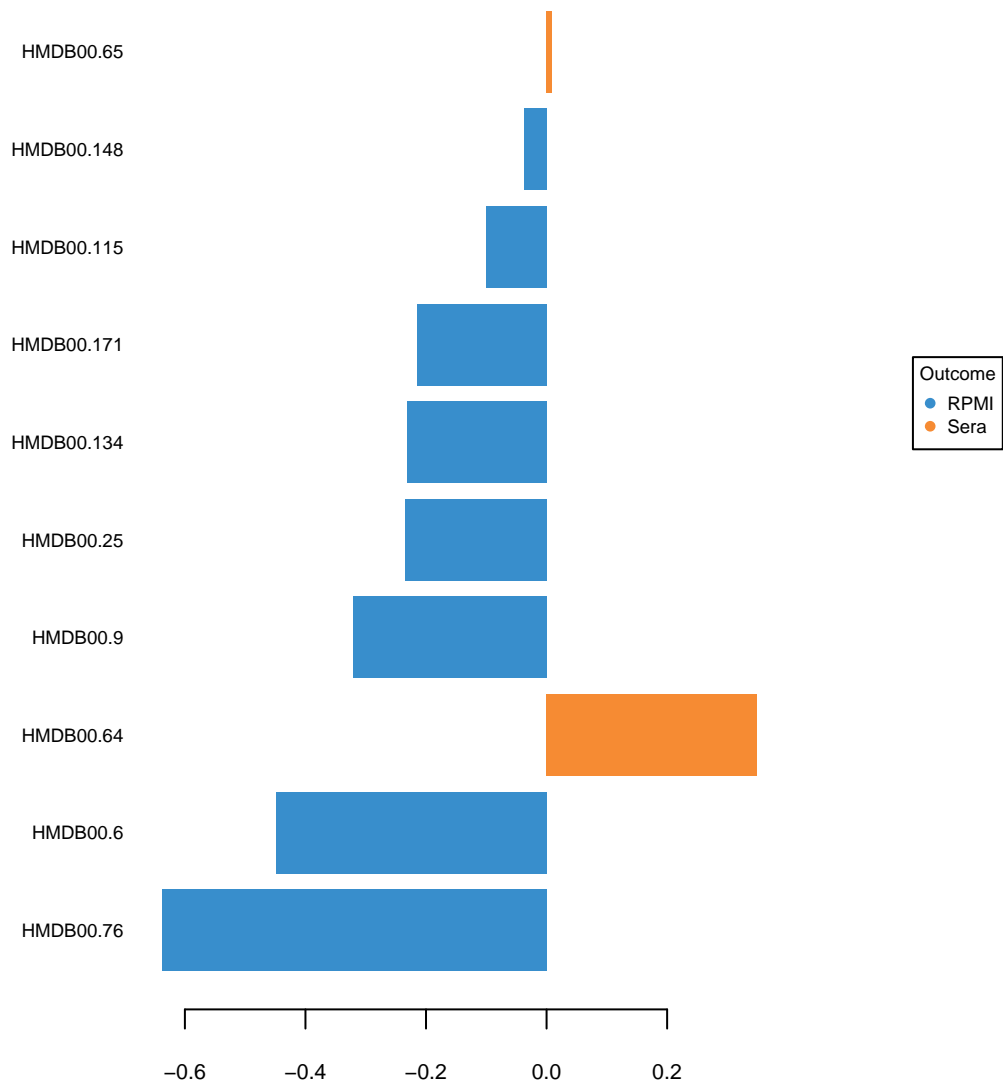
Sera

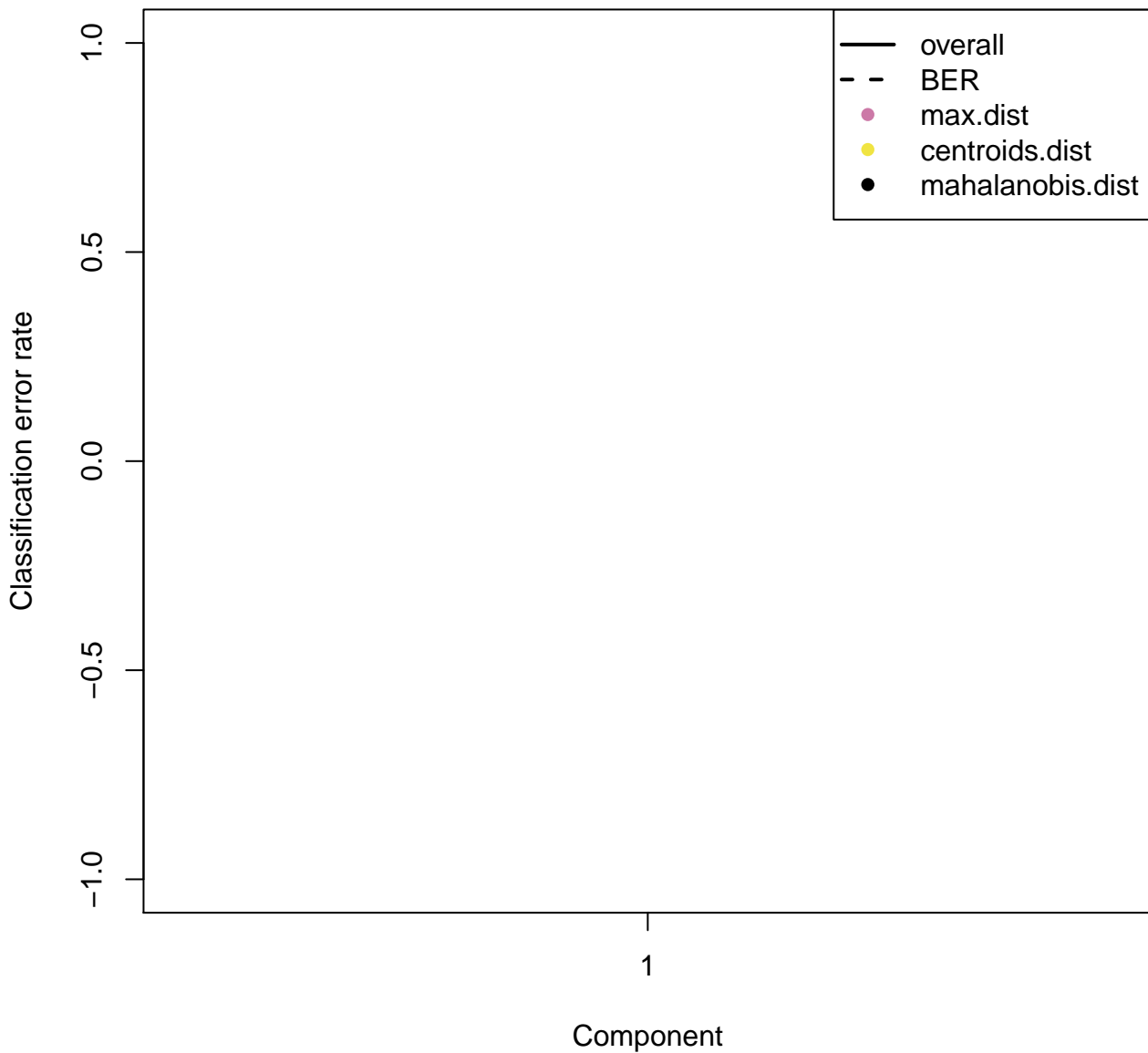


metabolome 1 sPLSDA max load

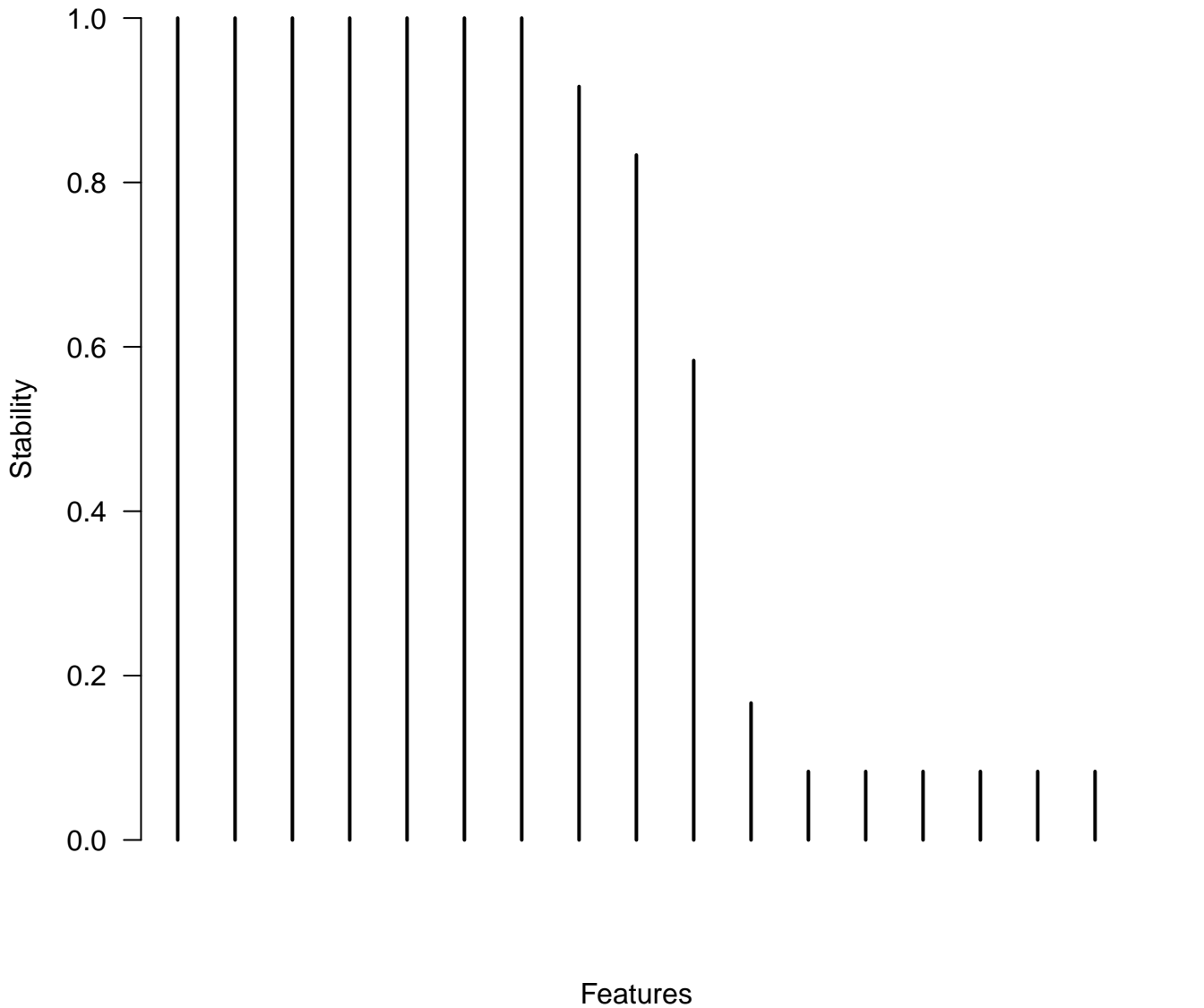


metabolome 1 sPLSDA min loac

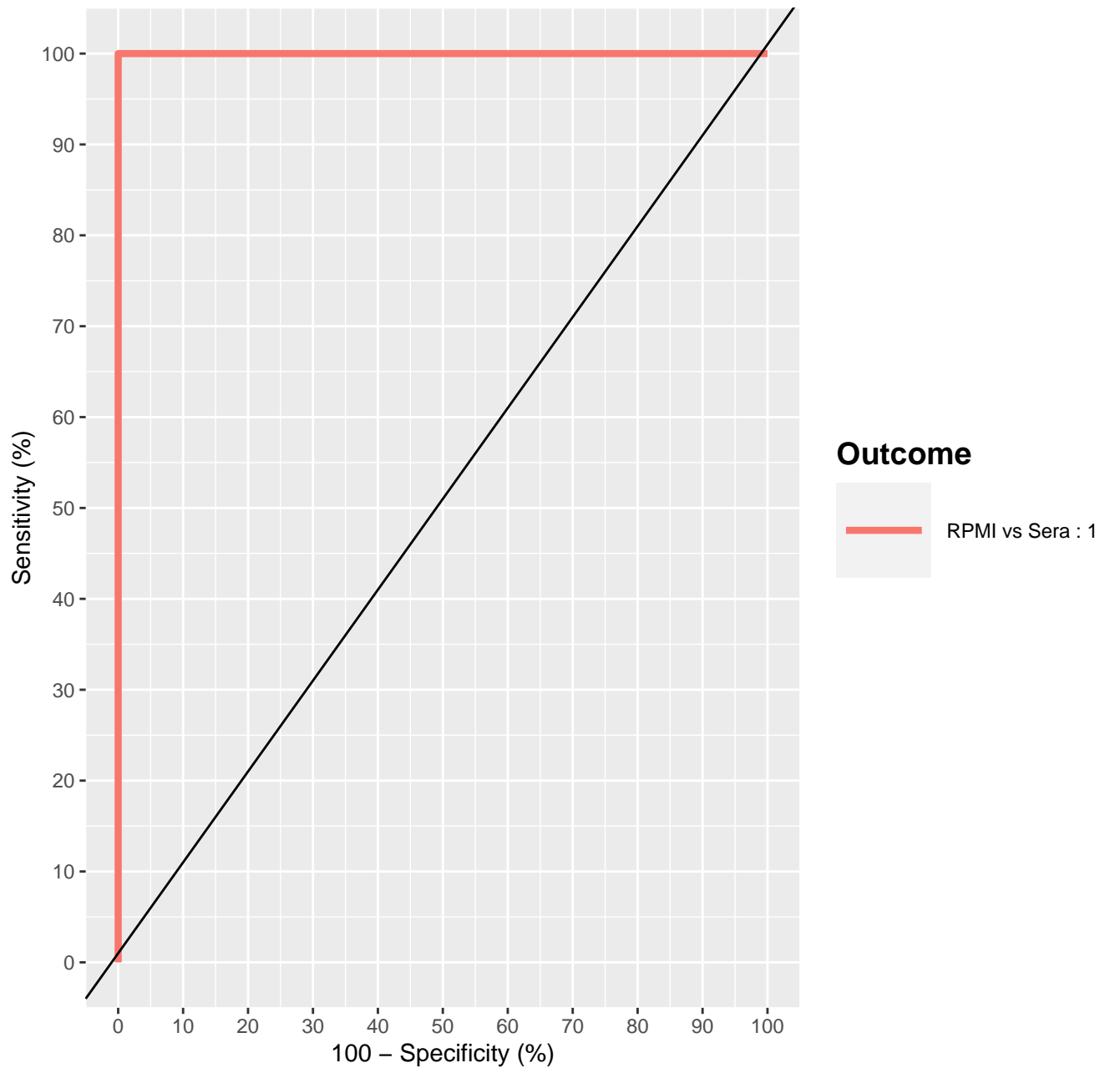




Comp 1



ROC Curve Using Comp(s): 1



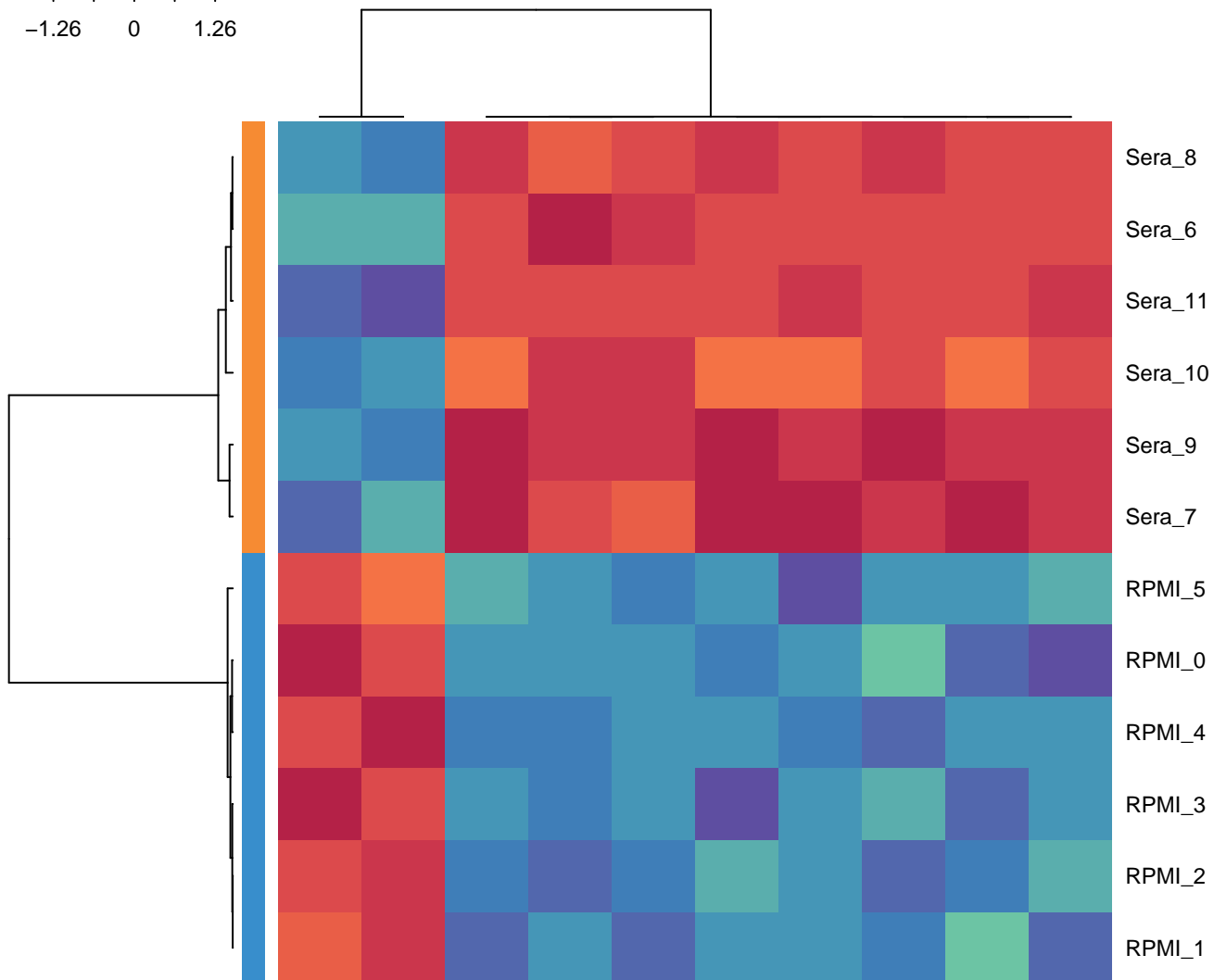
.26	0	1.2
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sPLSDA

■ RPMI

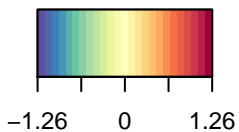
■ RPMI

■ Sera



sPLSDA Component 1

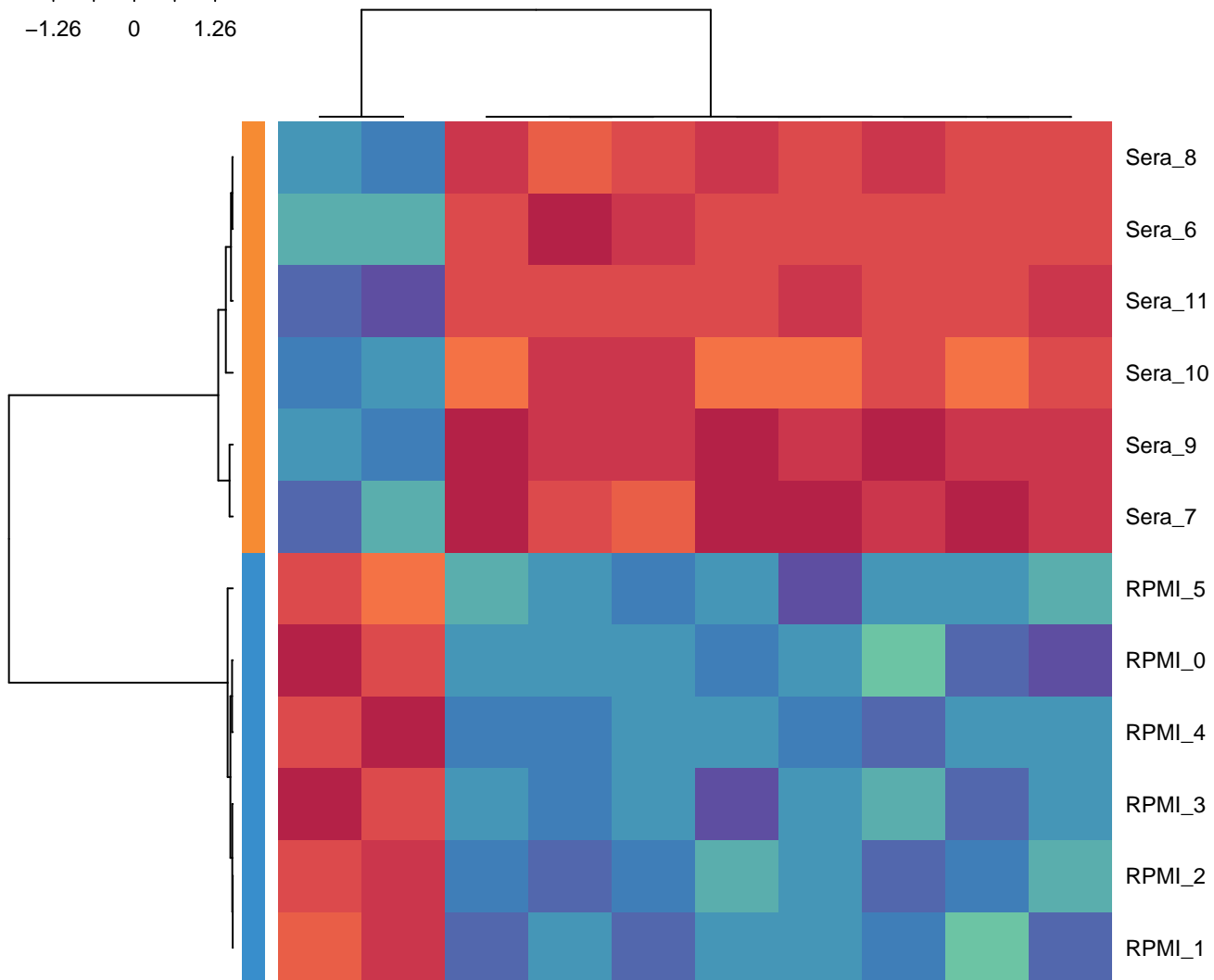
Color key



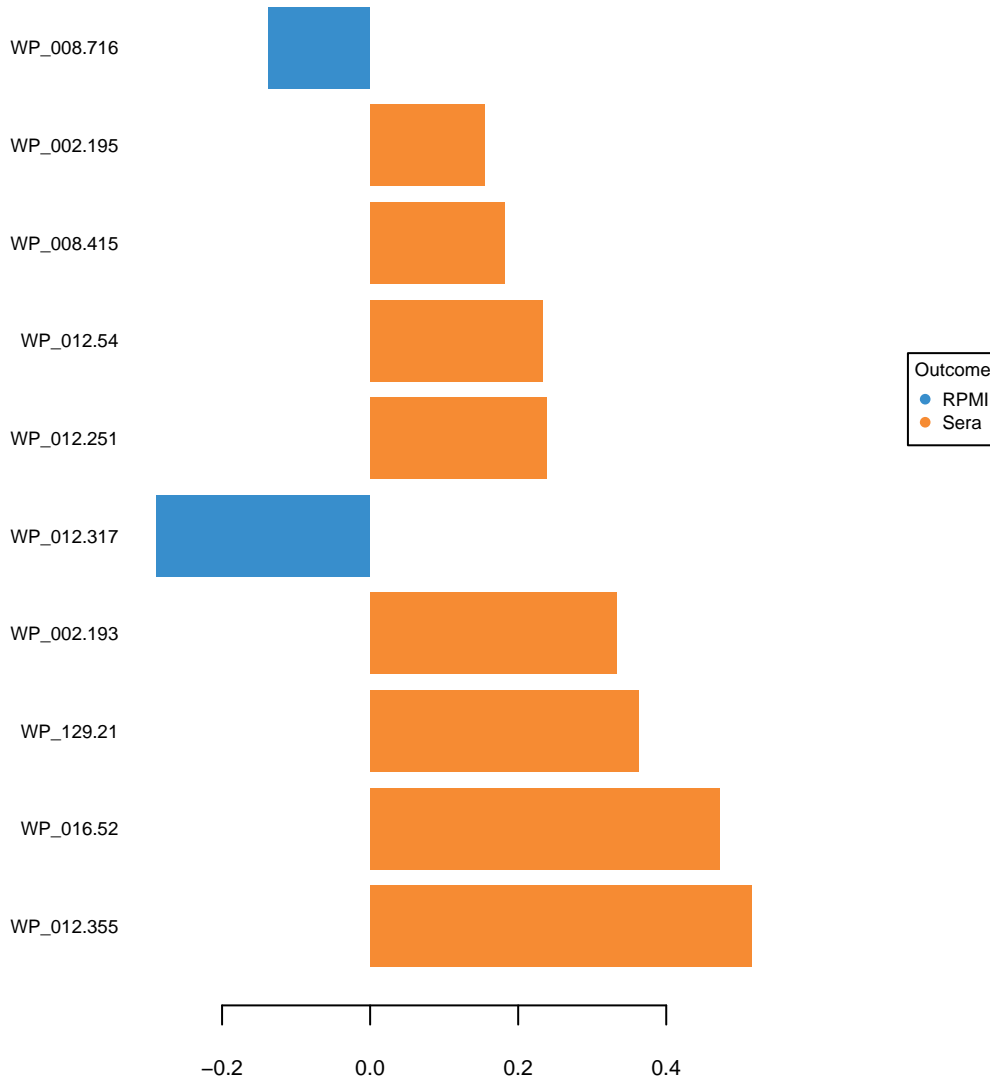
Status

RPMI

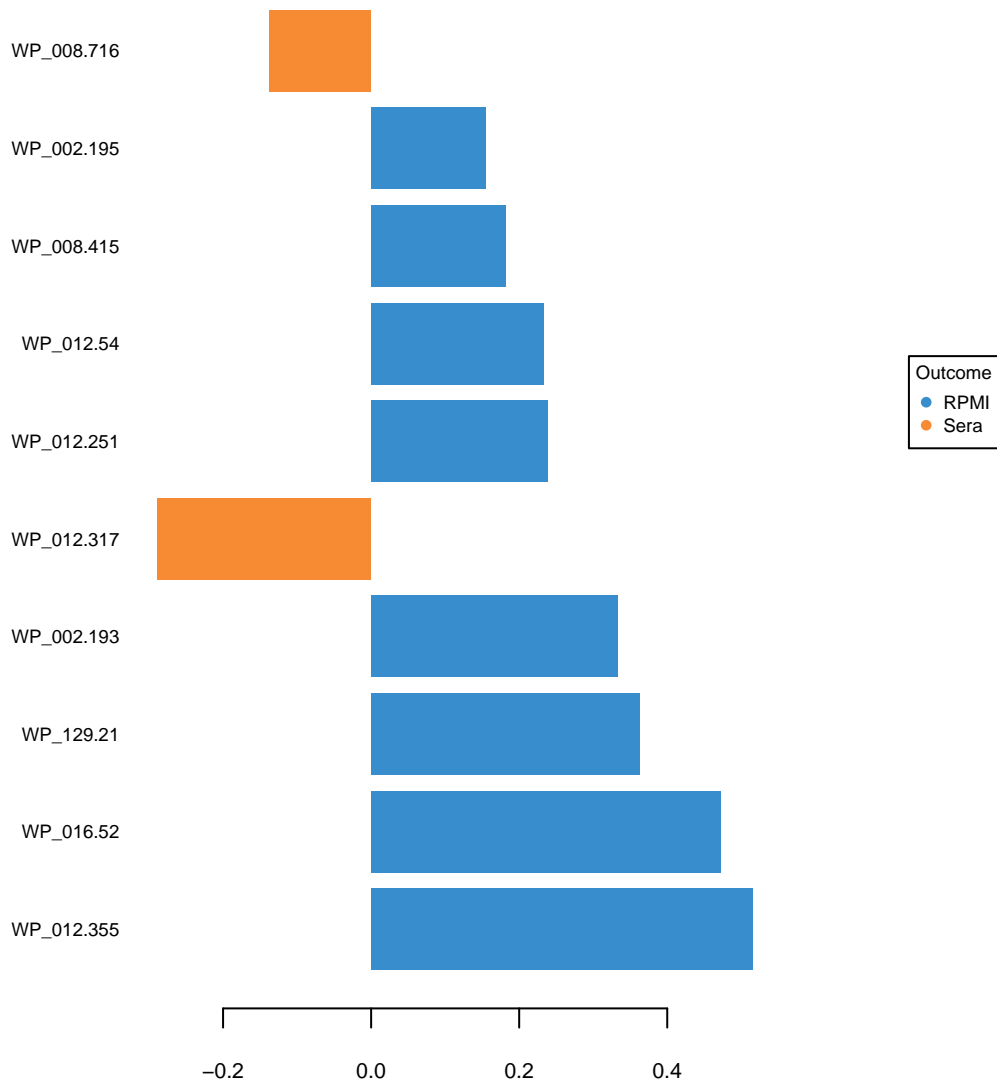
Sera

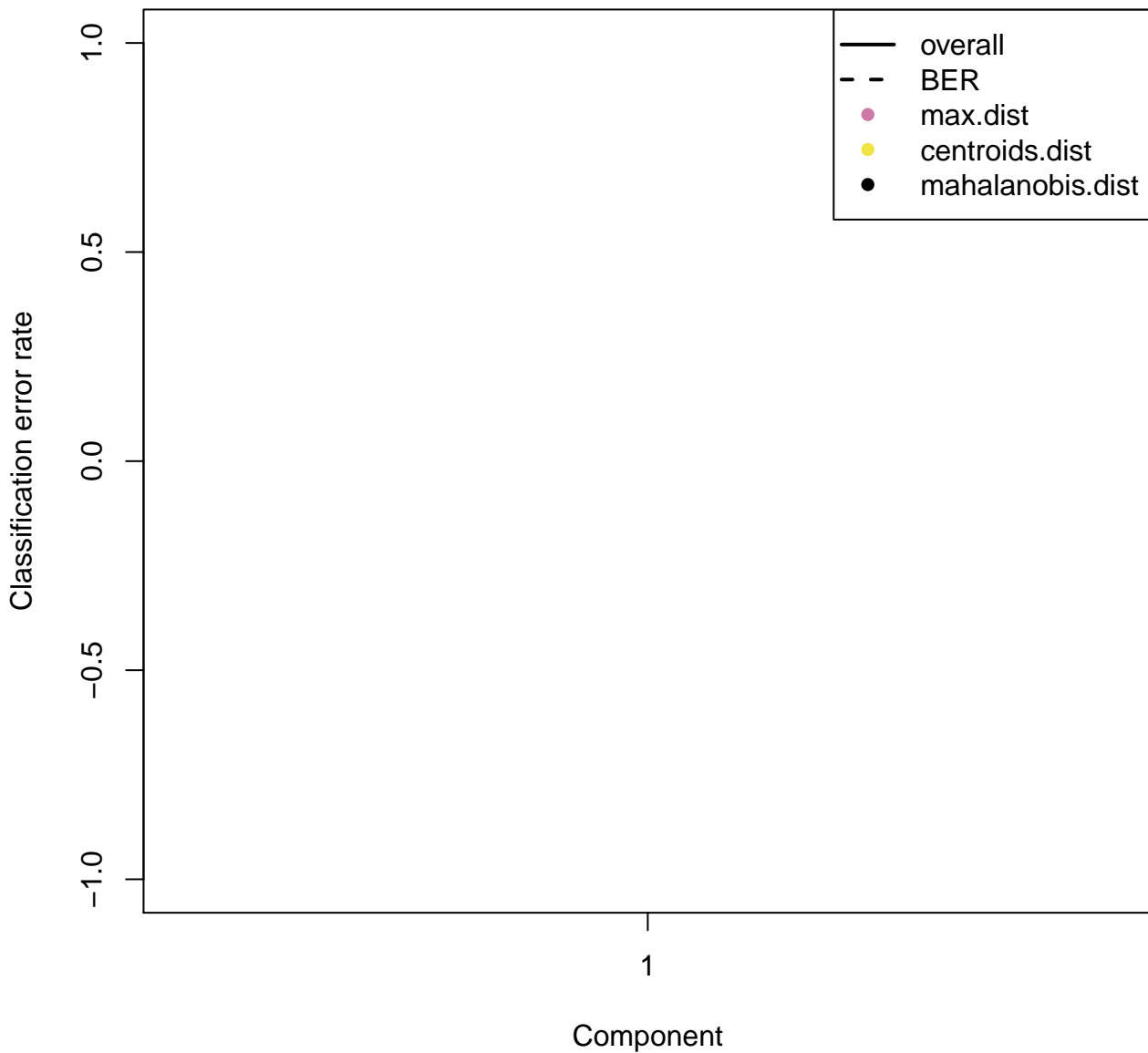


proteome 1 sPLSDA max loadings

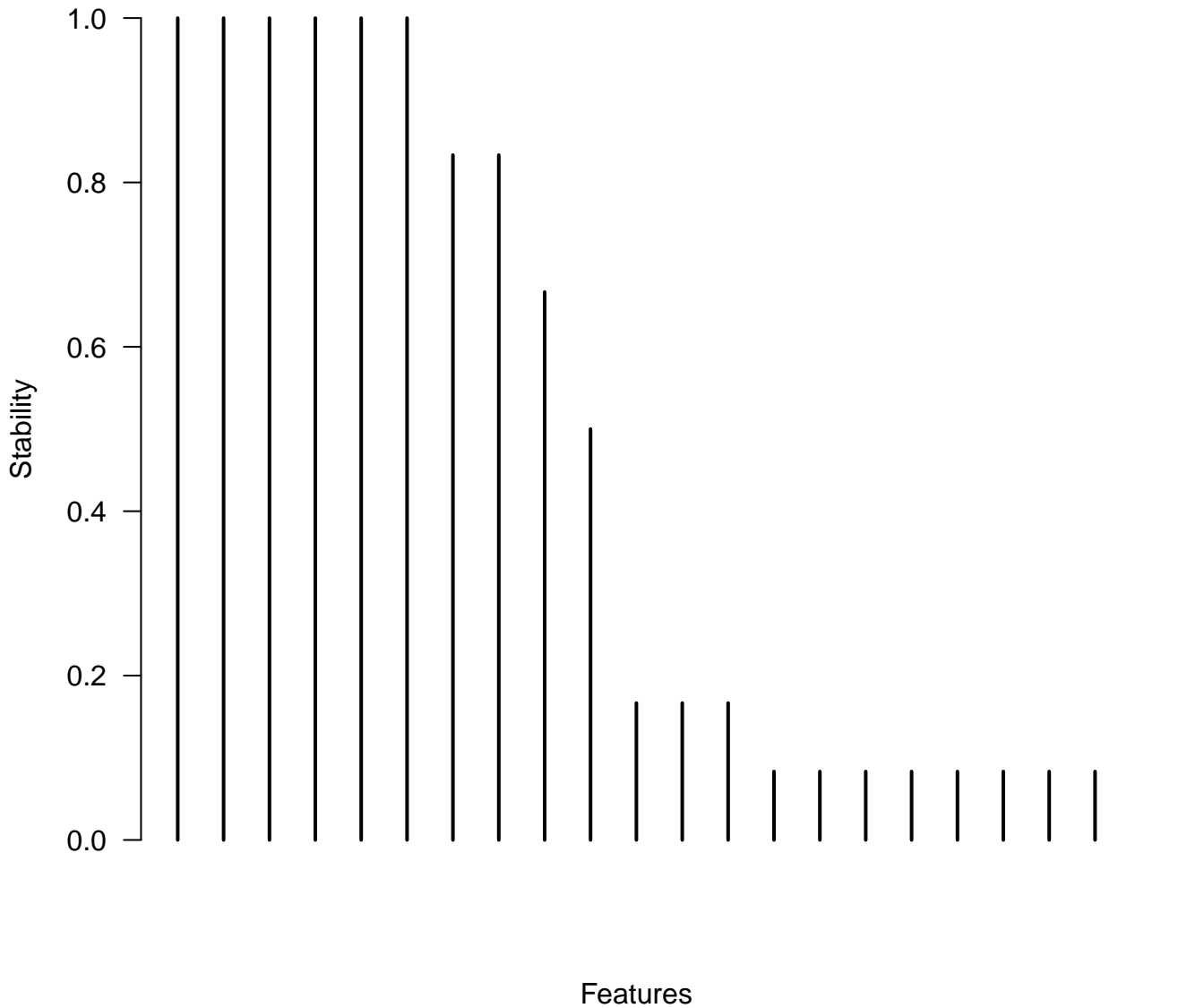


proteome 1 sPLSDA min loadings

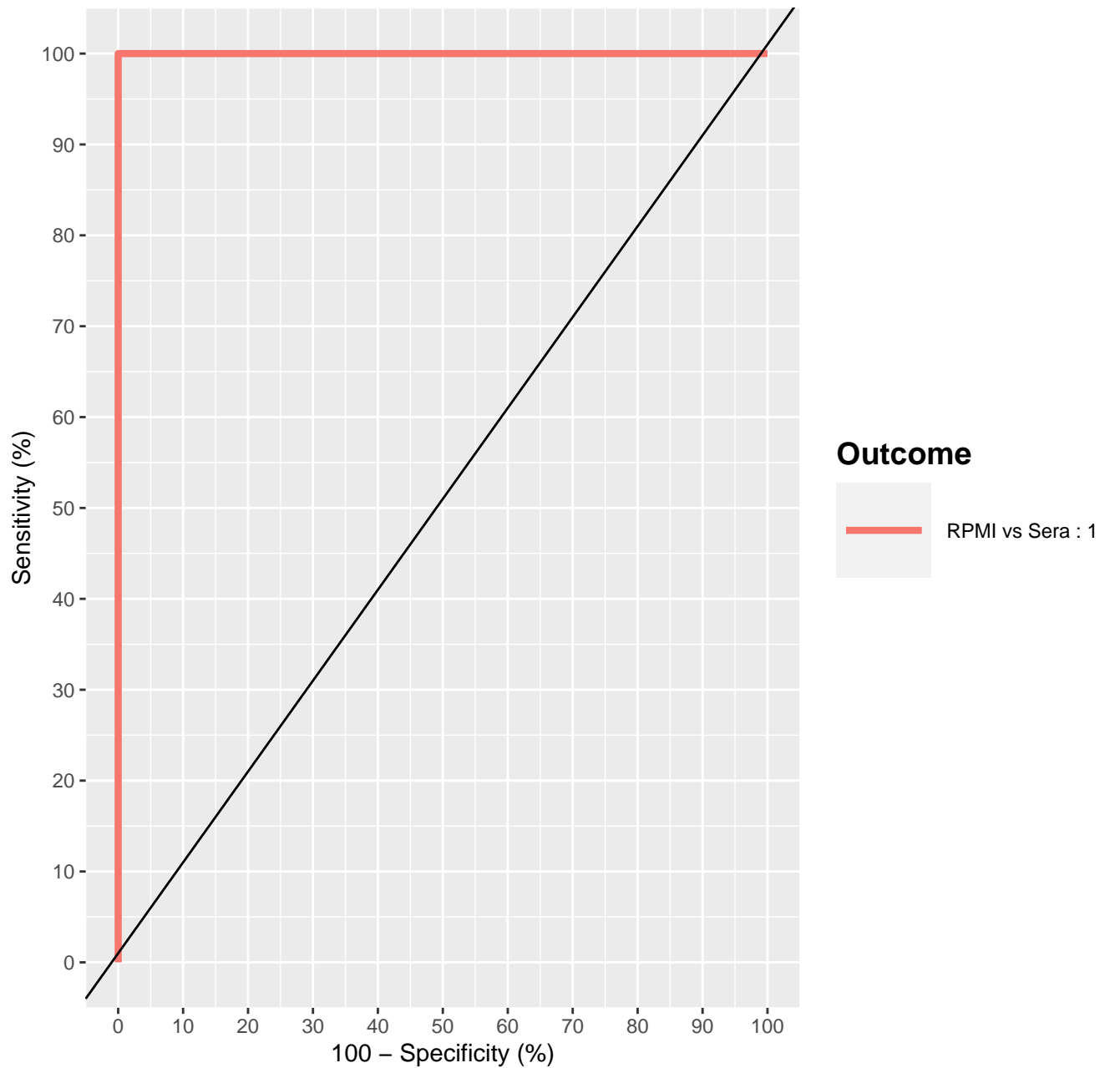




Comp 1



ROC Curve Using Comp(s): 1



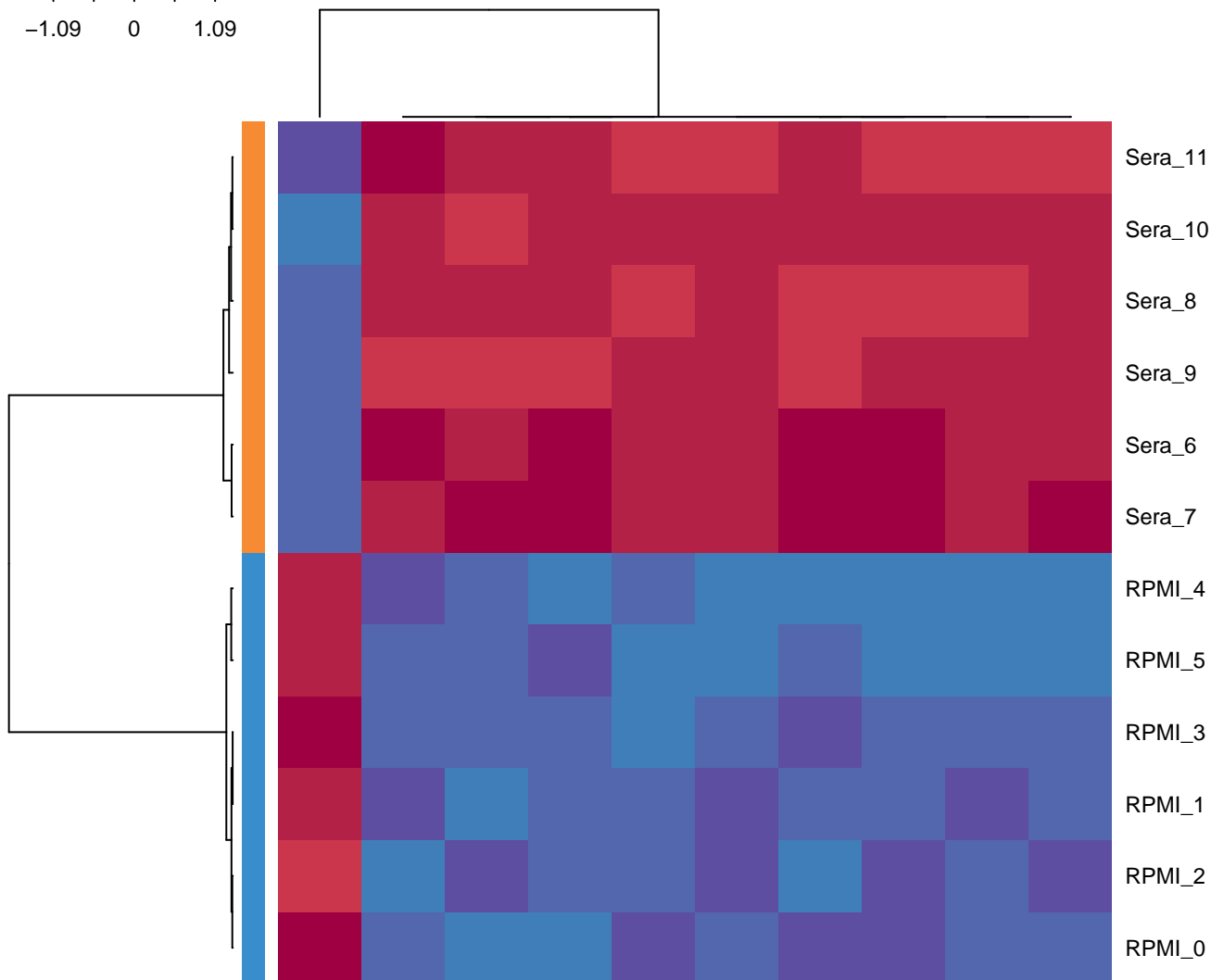
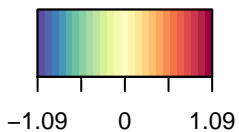
sPLSDA

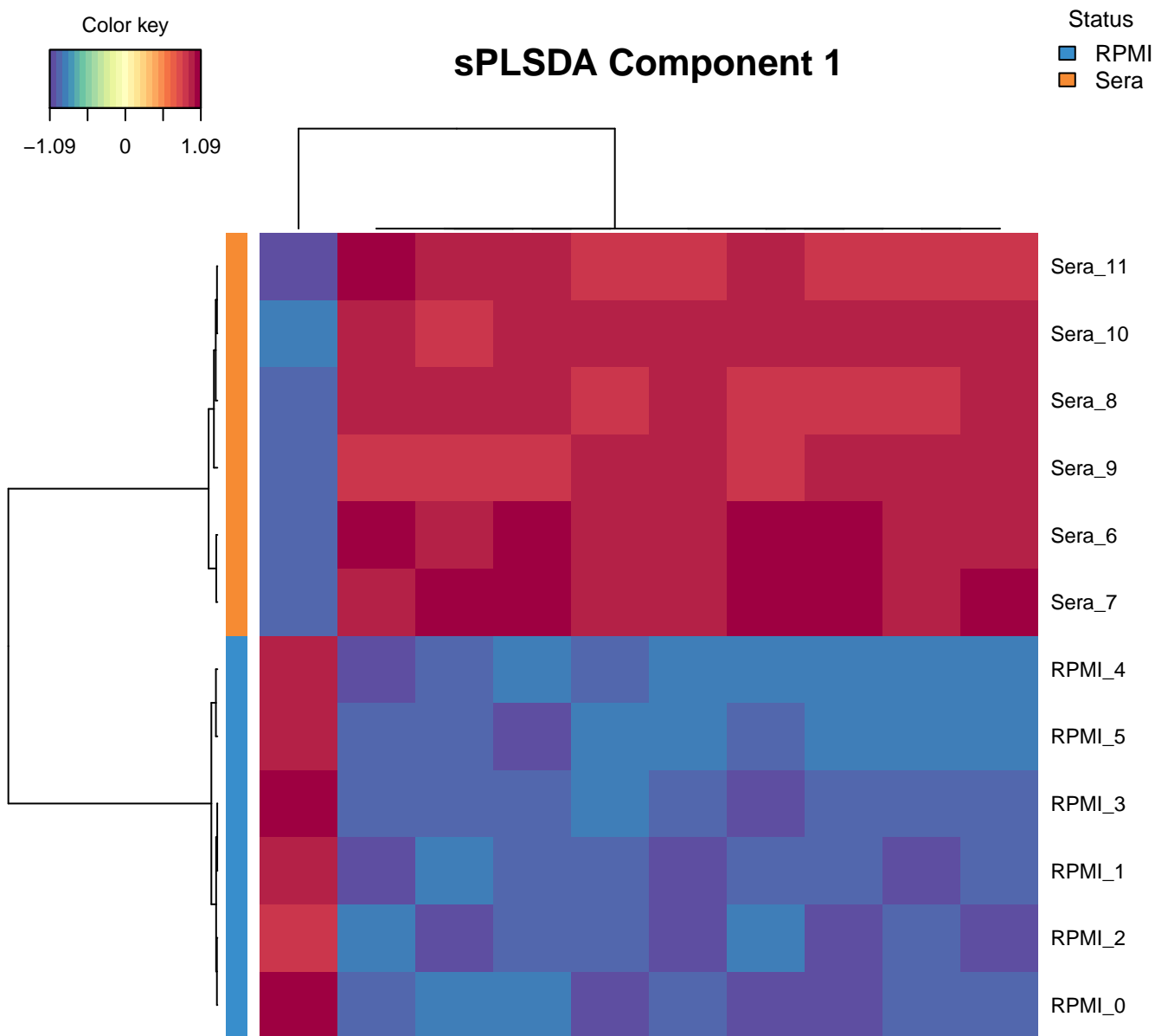
Status

RPMI

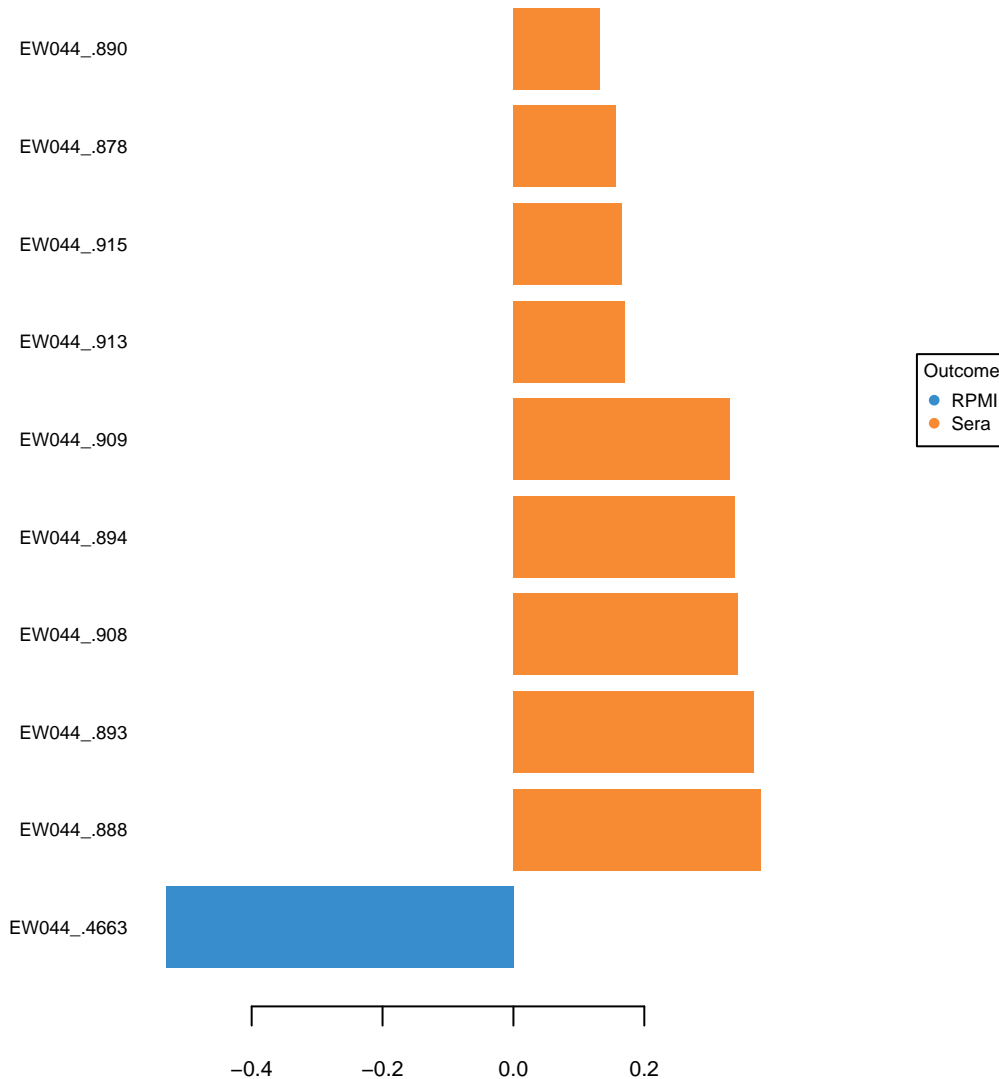
Sera

Color key

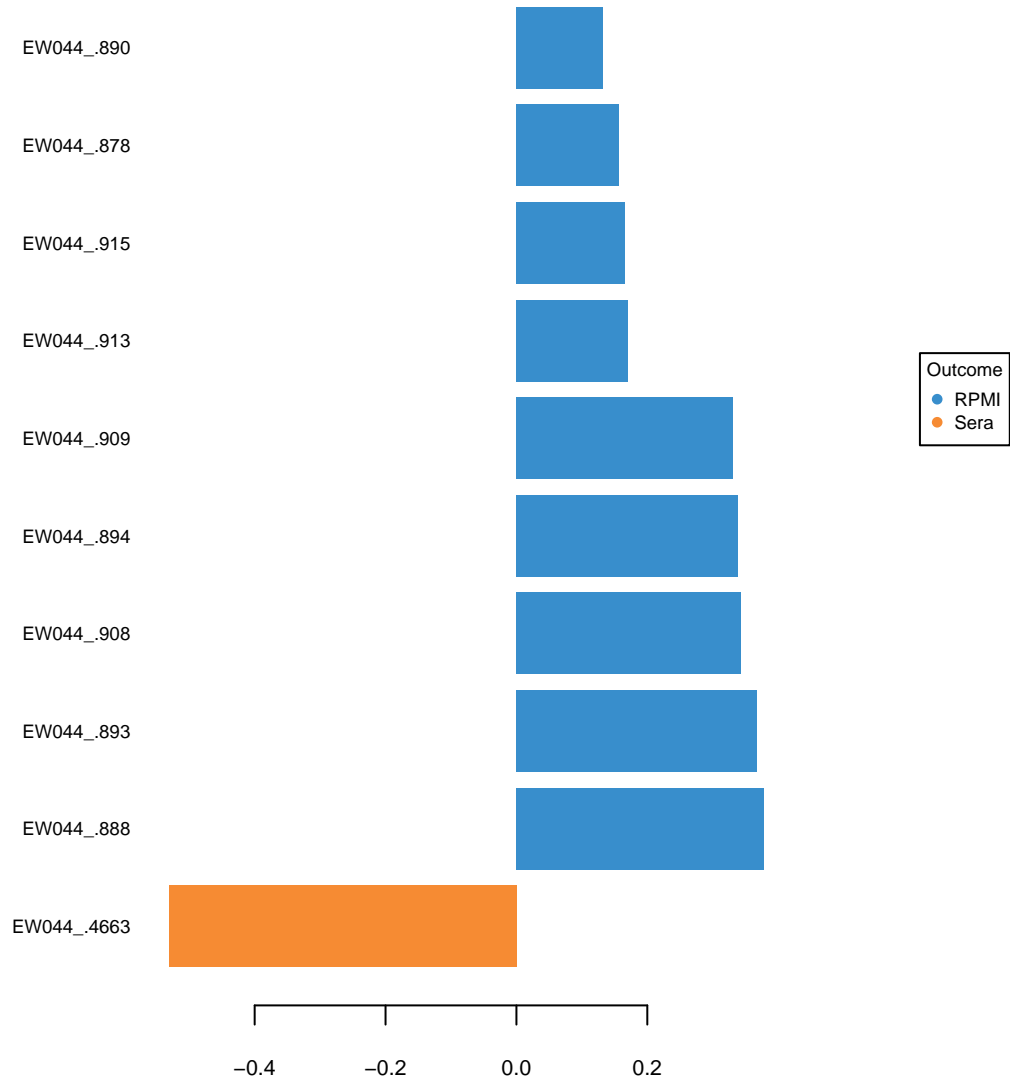


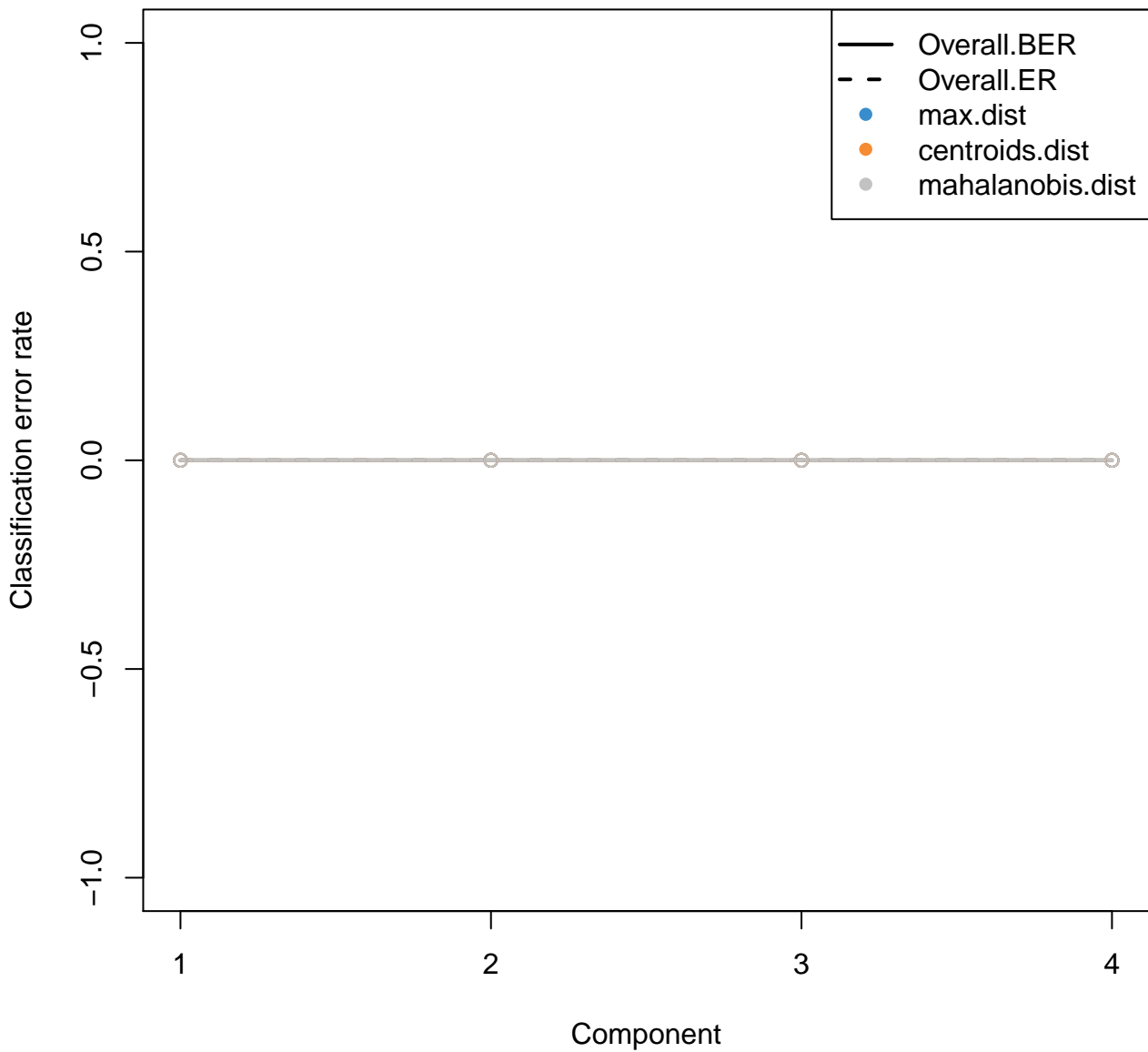


transcriptome 1 sPLSDA max loa

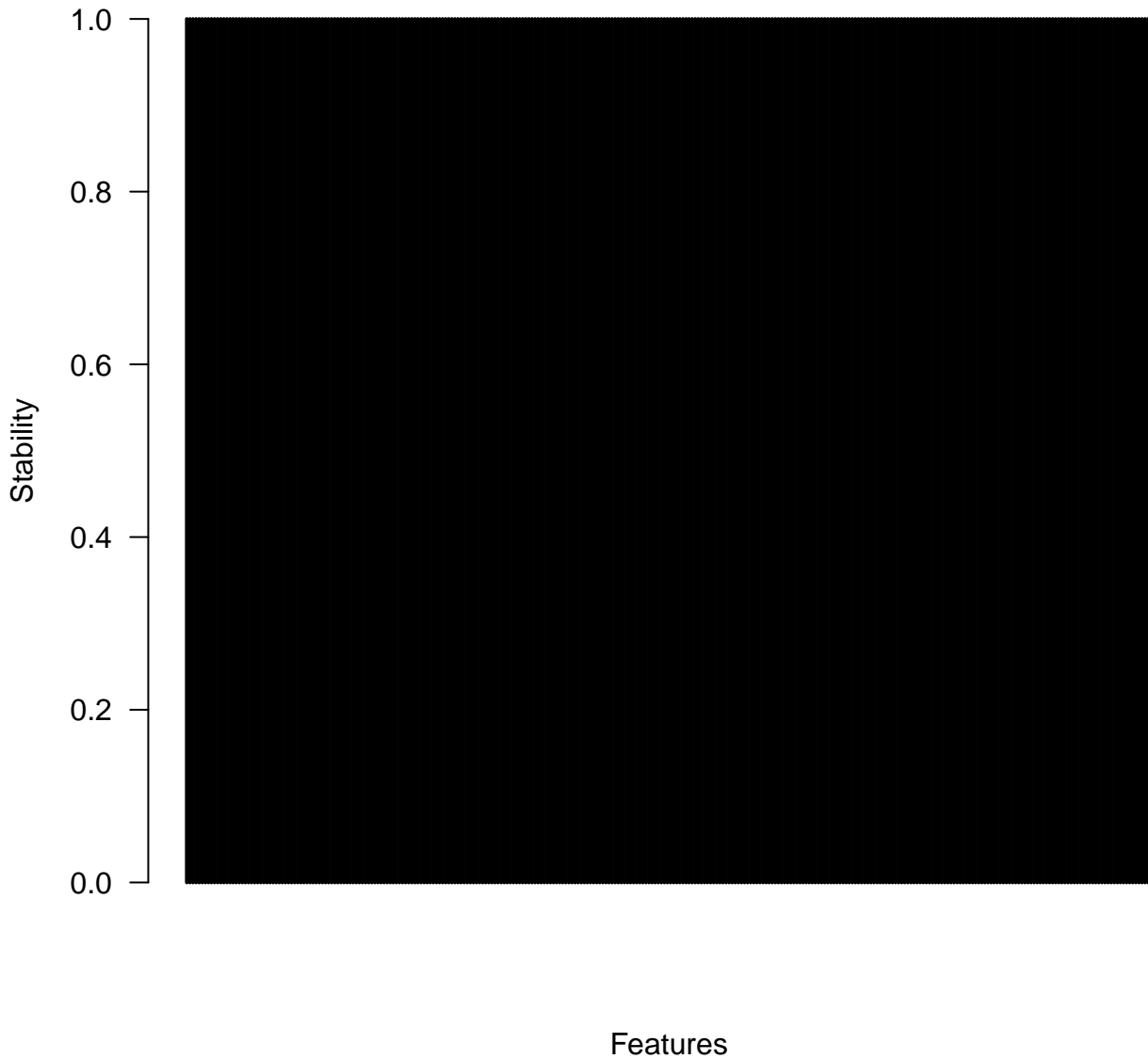


transcriptome 1 sPLSDA min loa

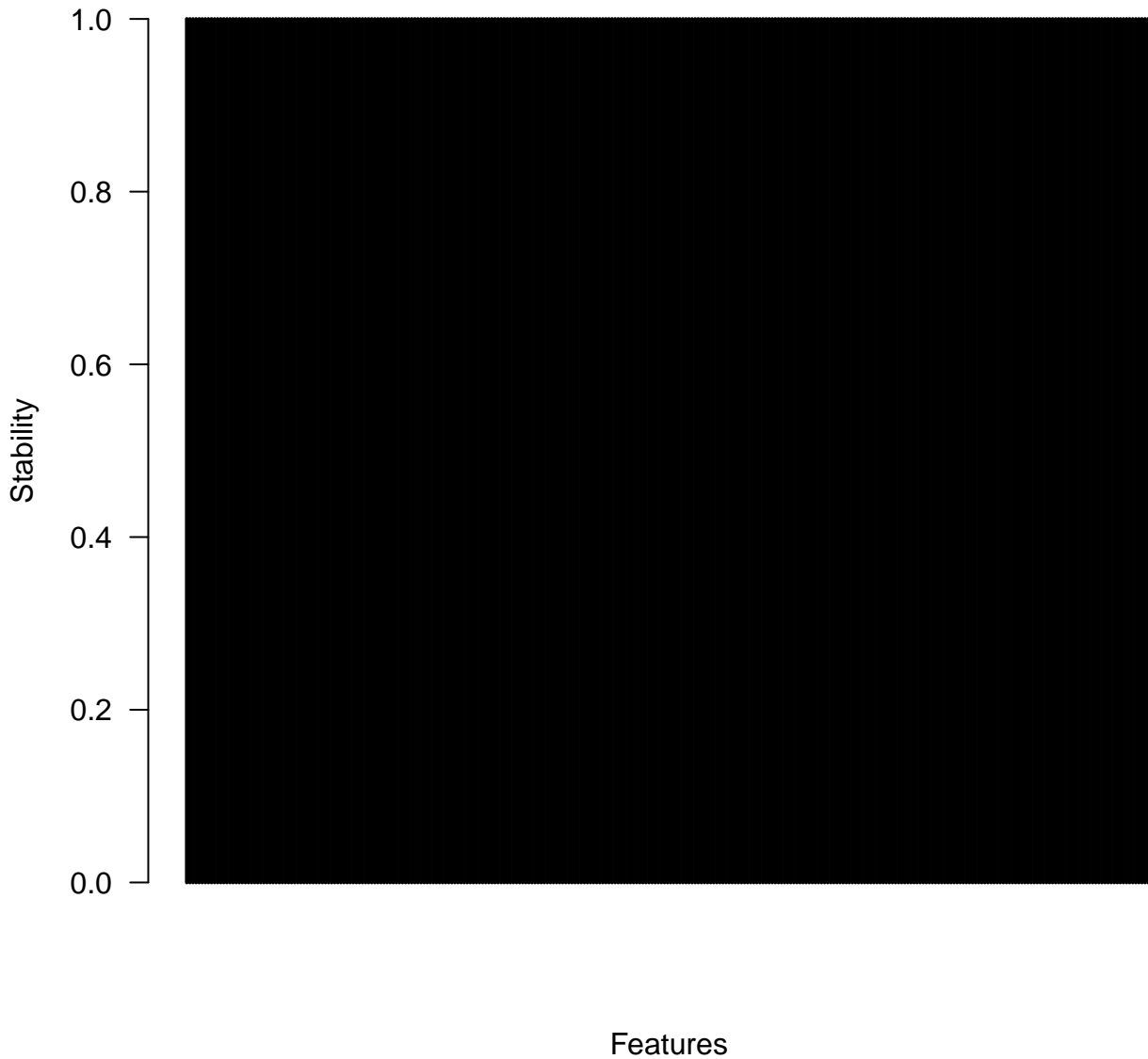




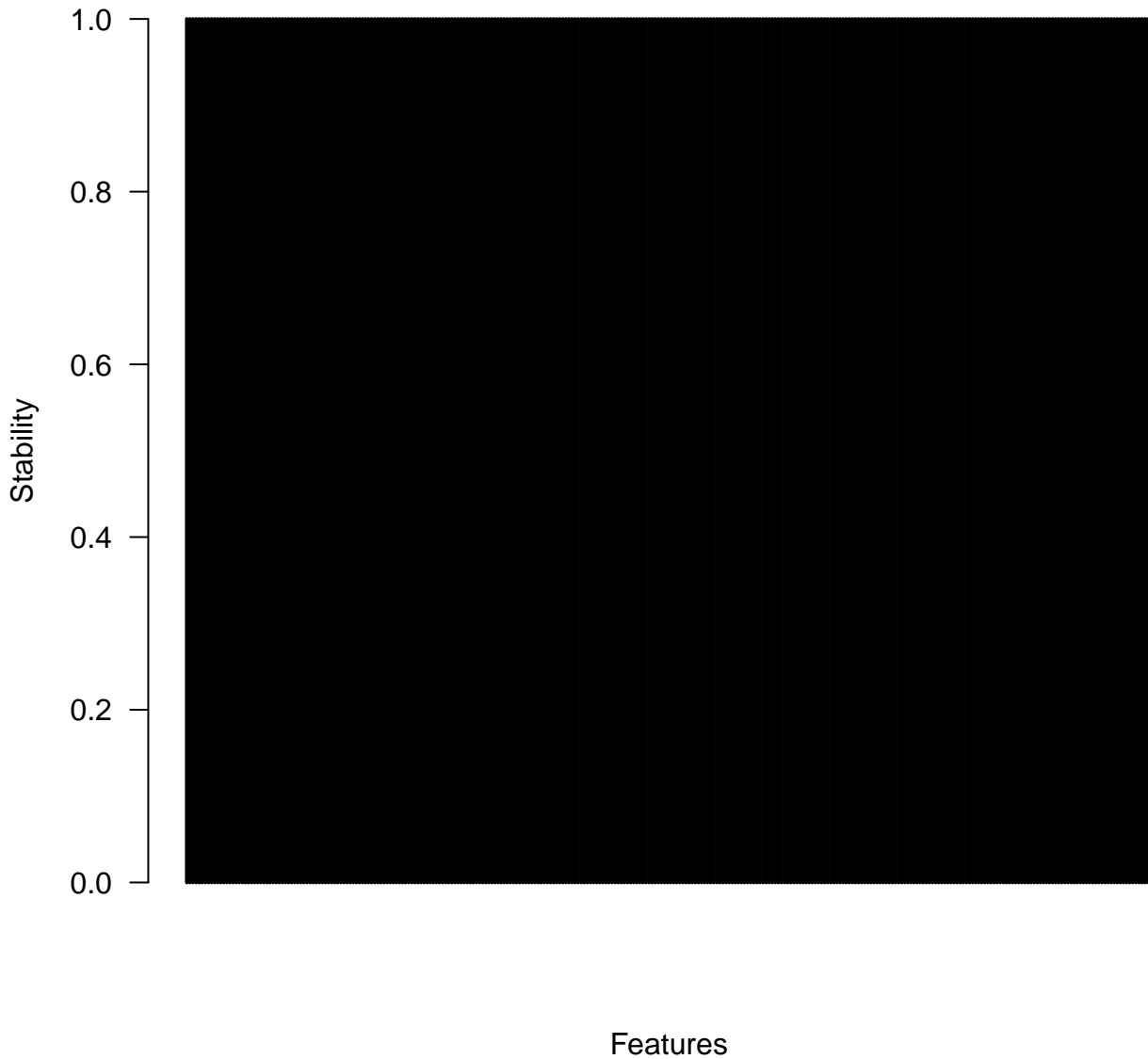
metabolome Comp 1



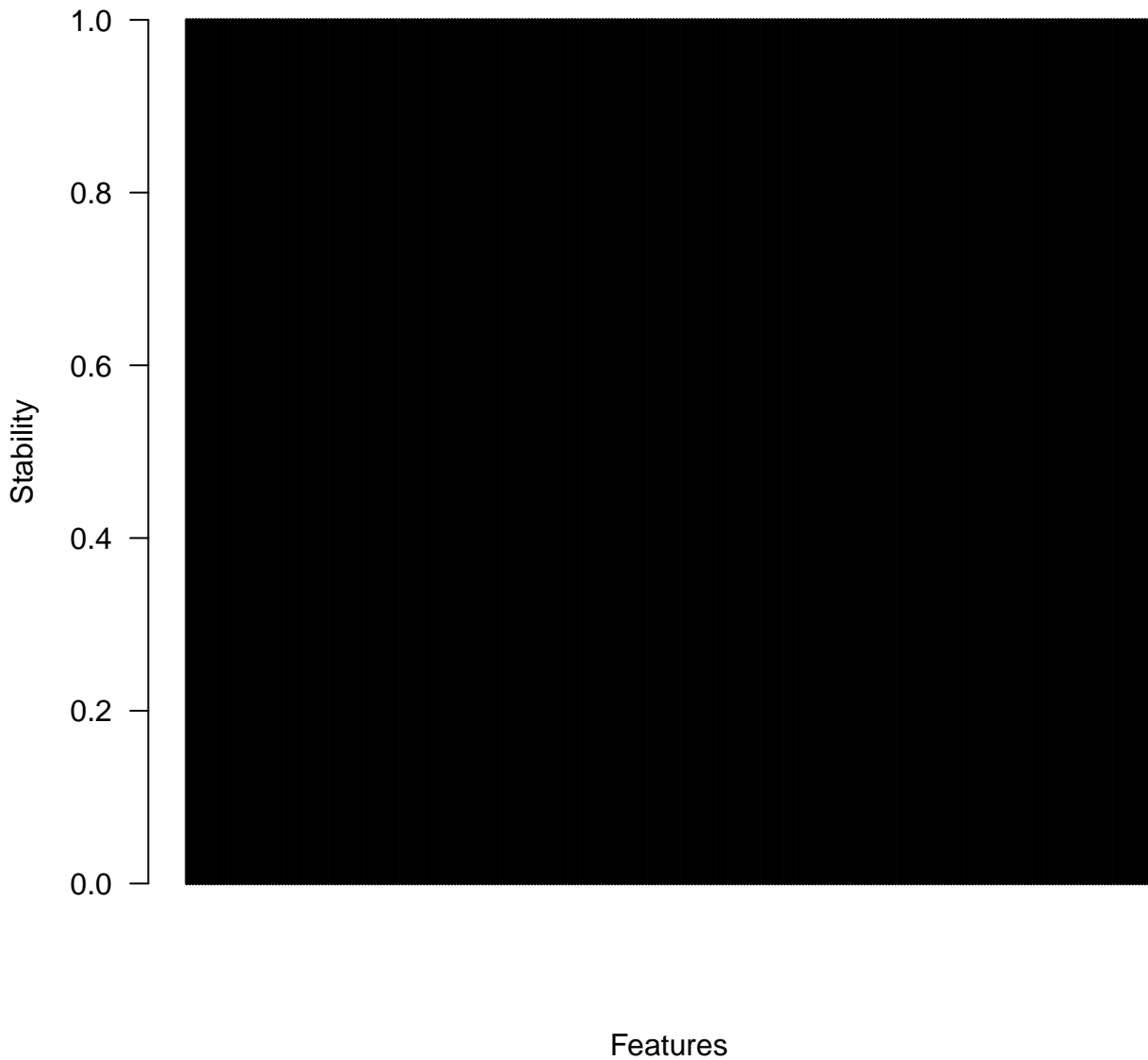
metabolome Comp 2



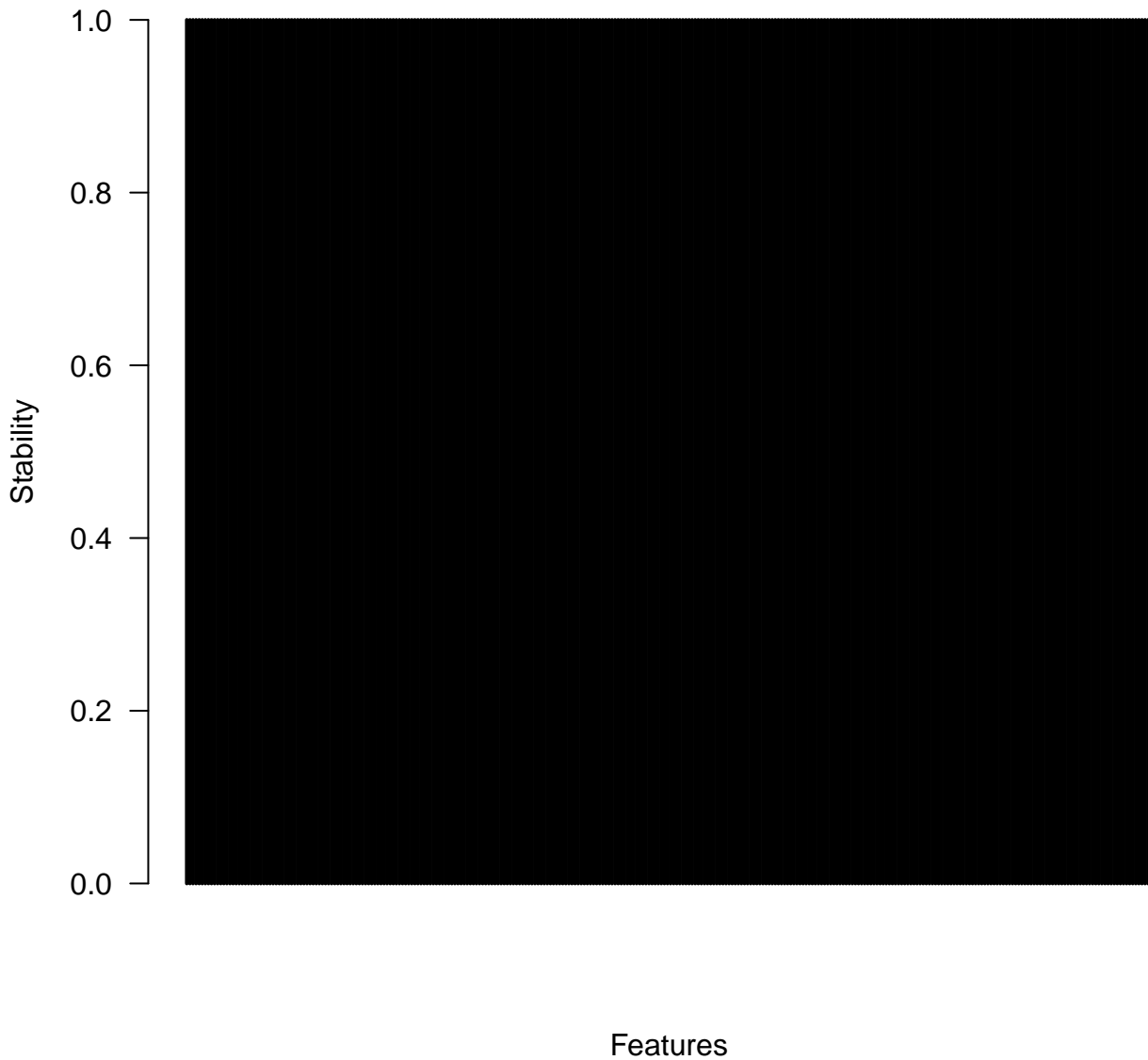
metabolome Comp 3



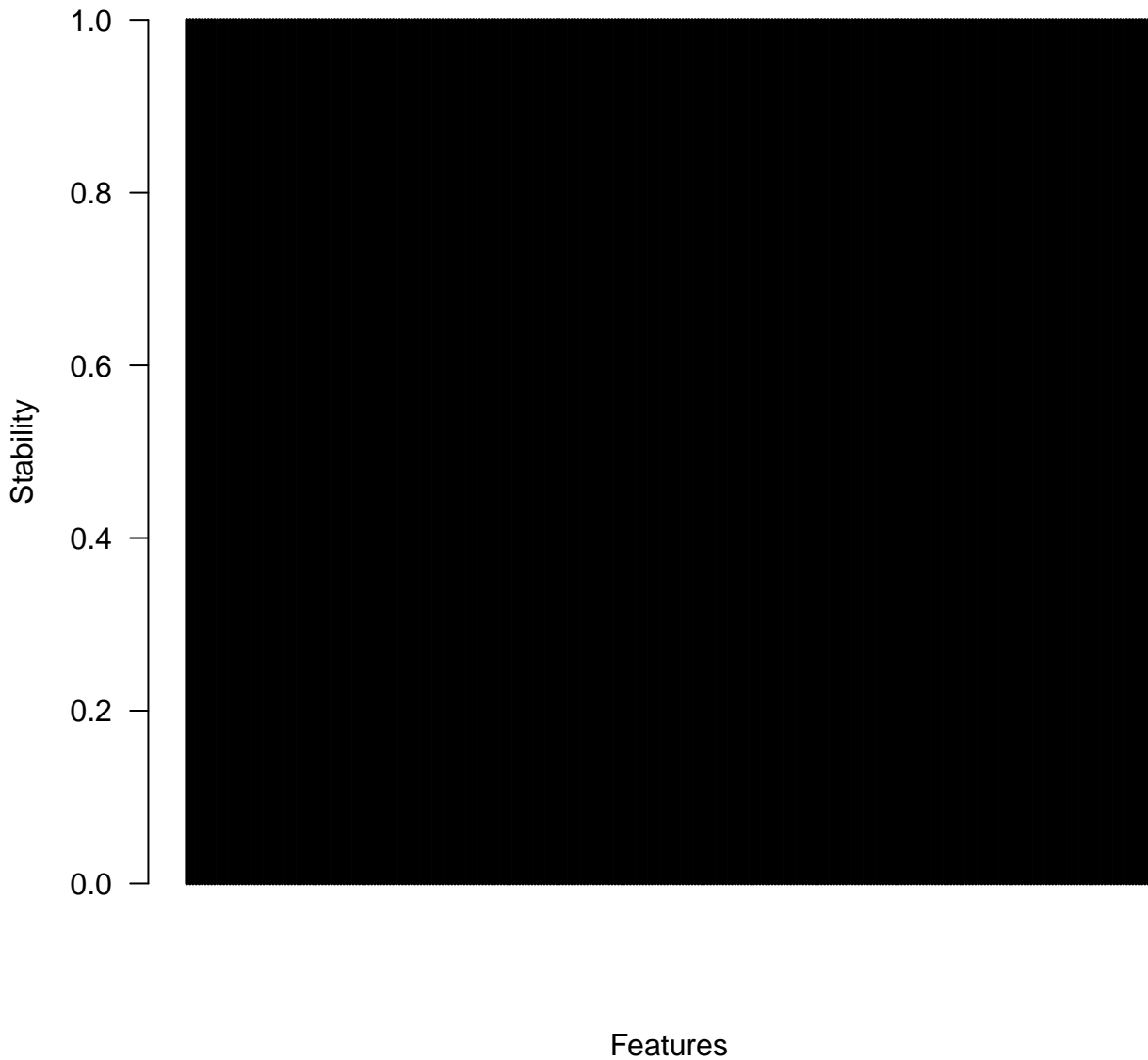
proteome Comp 1



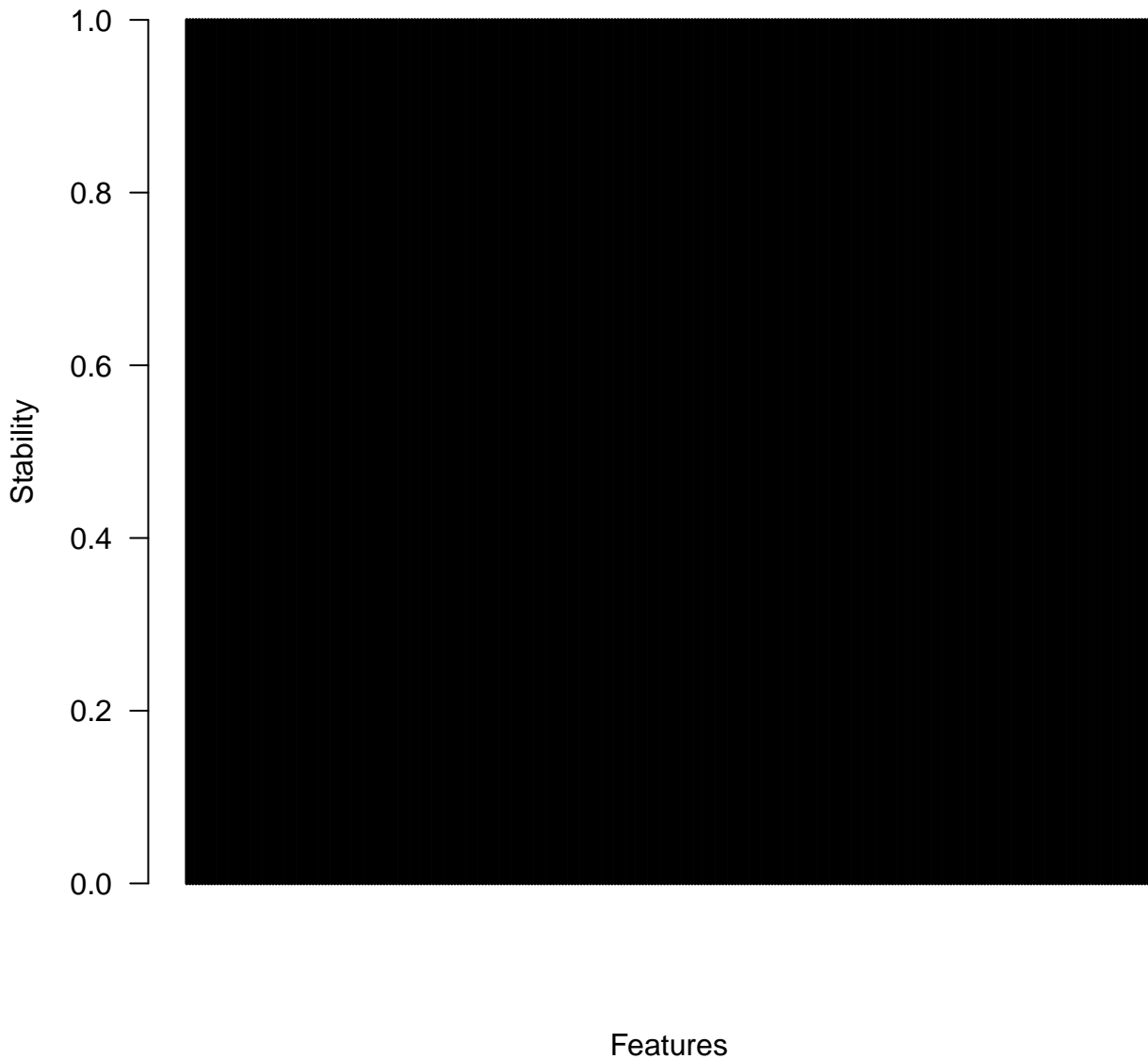
proteome Comp 2



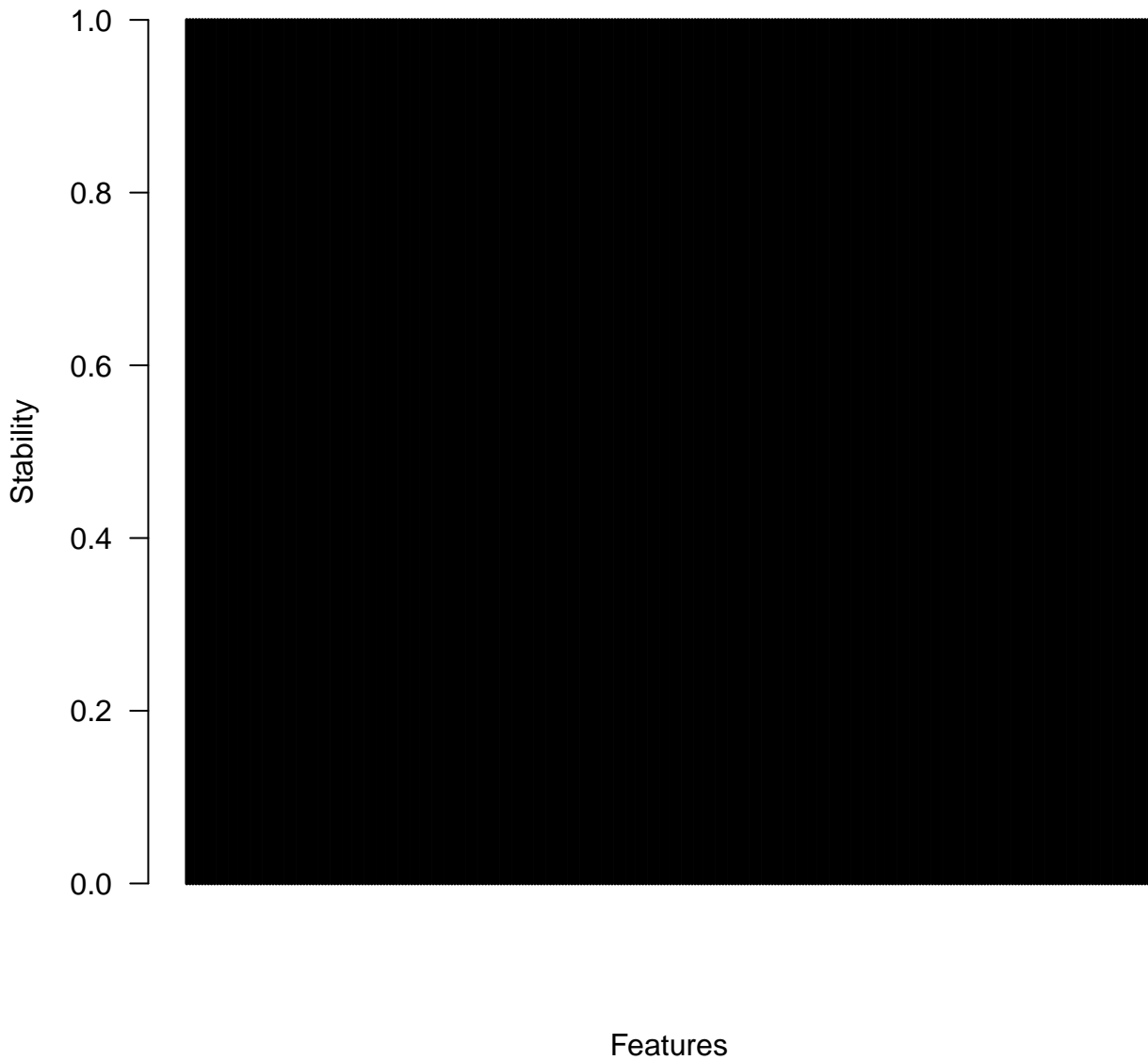
proteome Comp 3



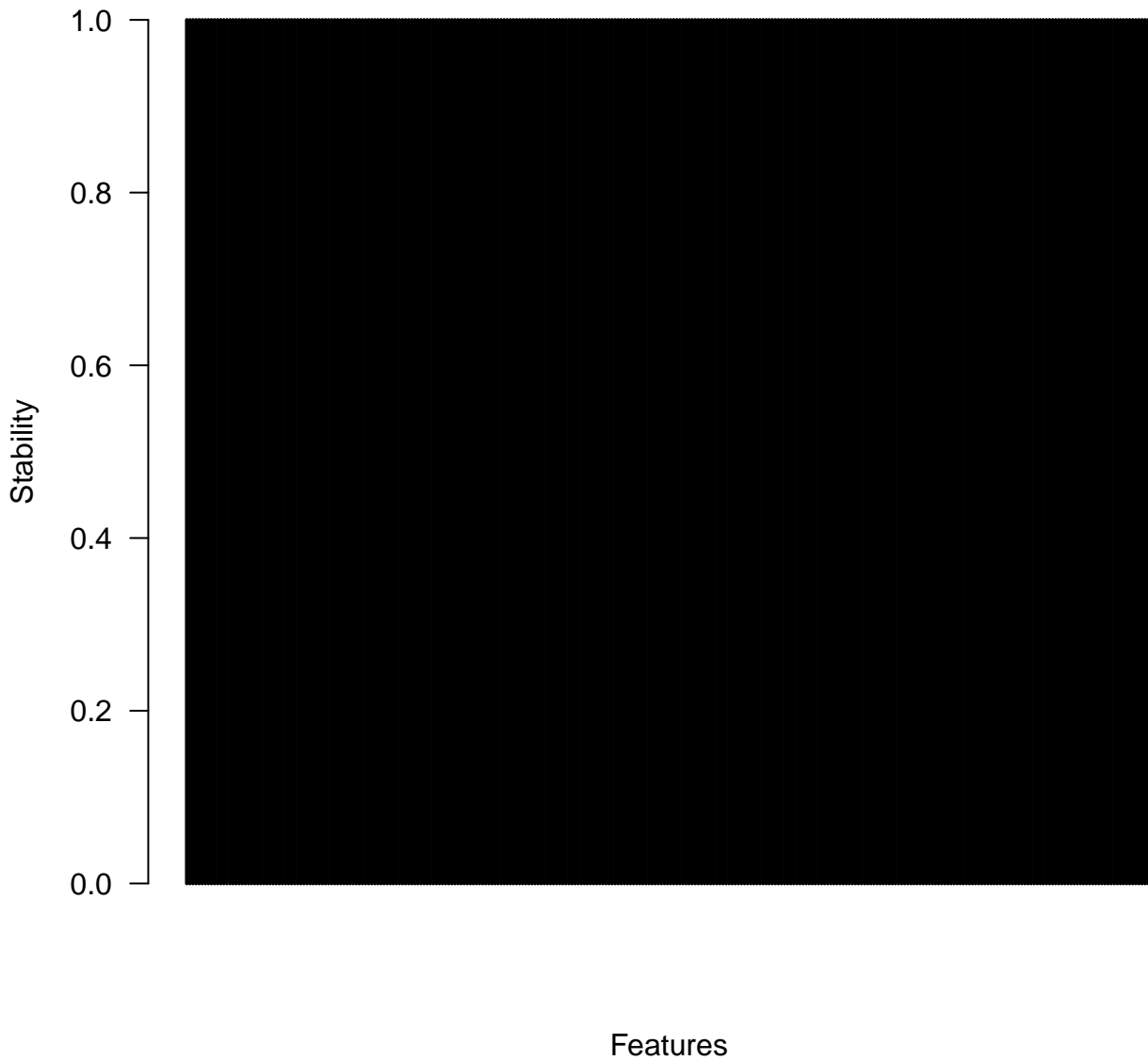
transcriptome Comp 1



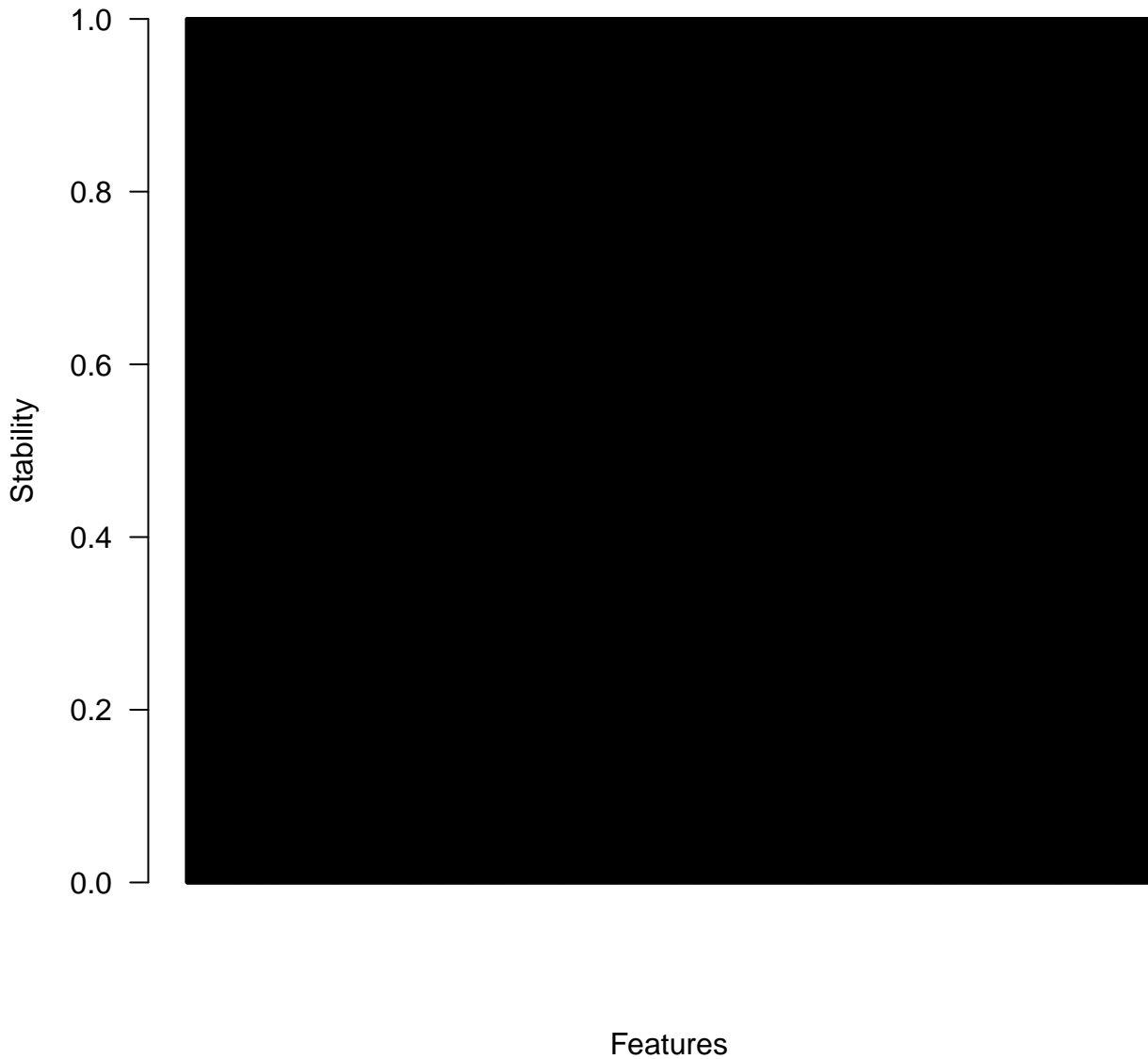
transcriptome Comp 2



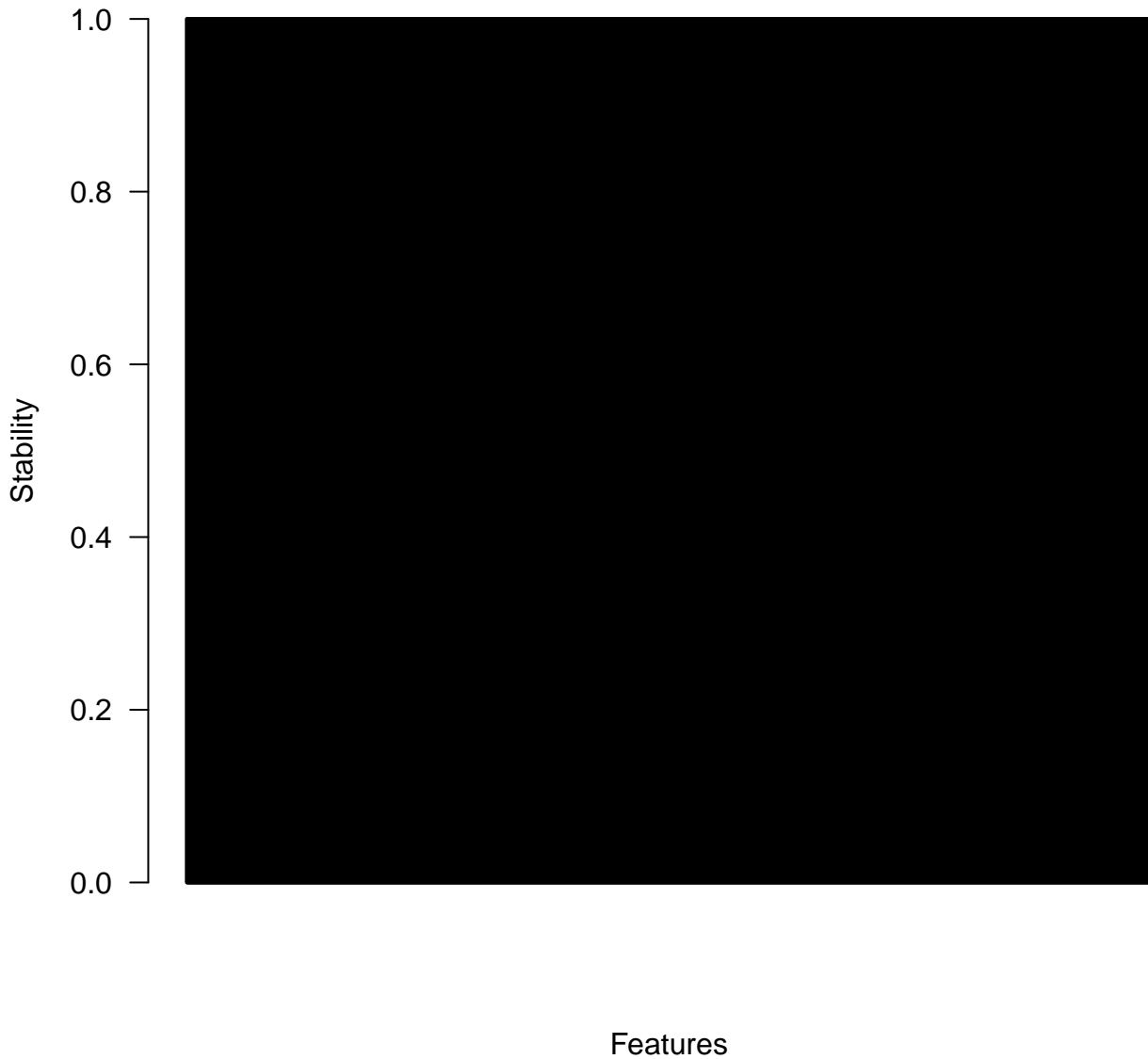
transcriptome Comp 3



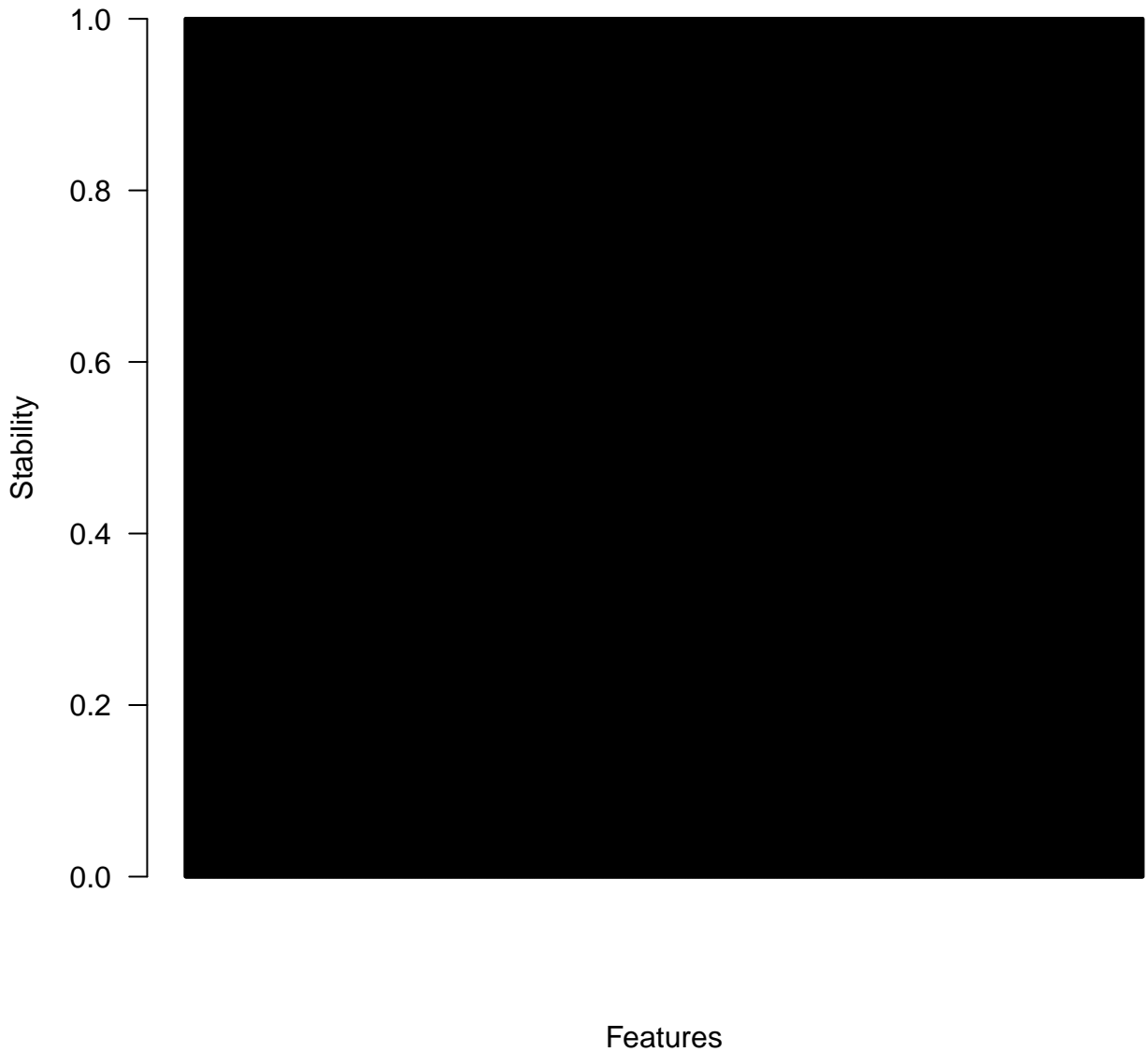
metabolome Comp 1



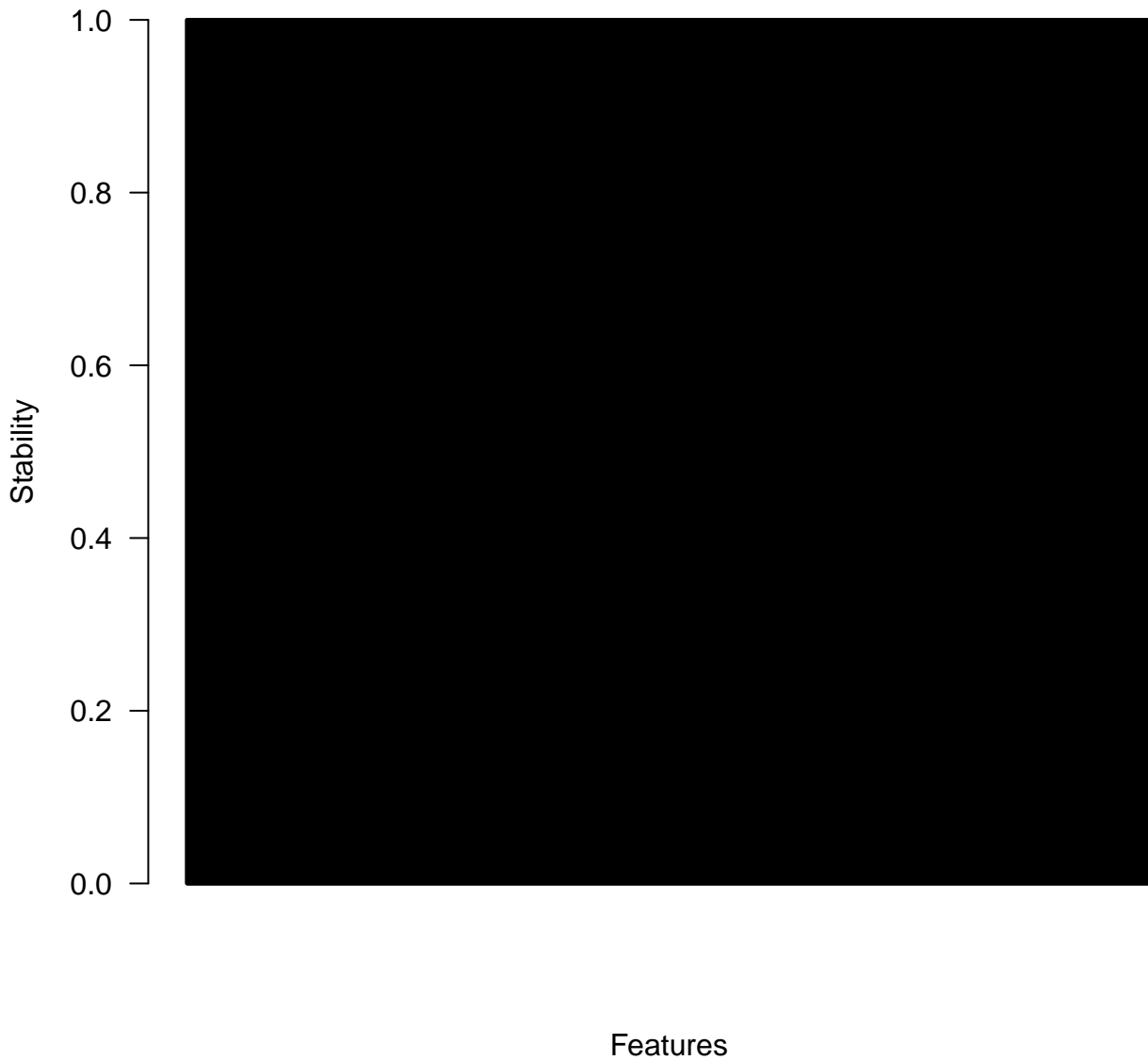
metabolome Comp 2



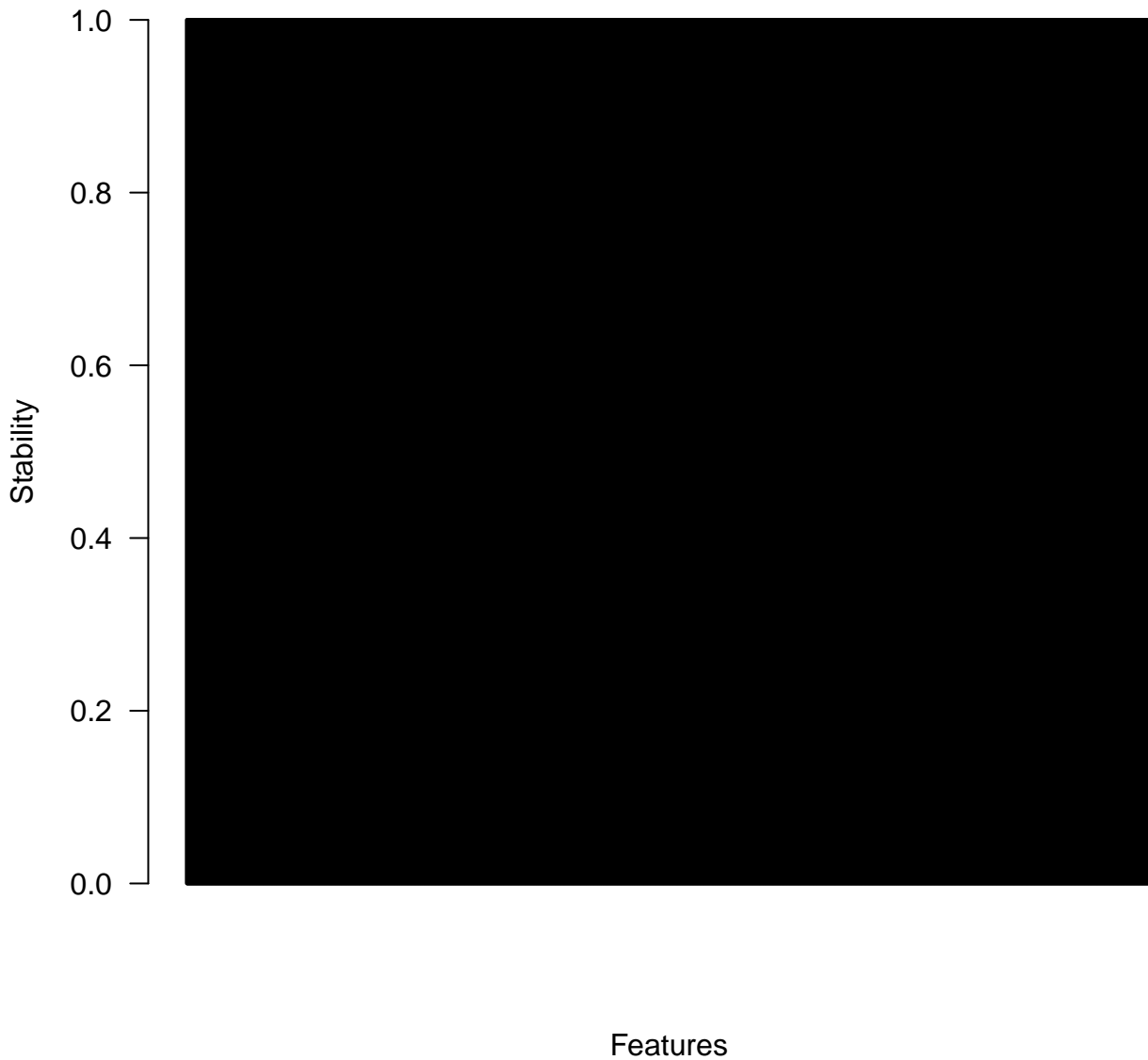
metabolome Comp 3



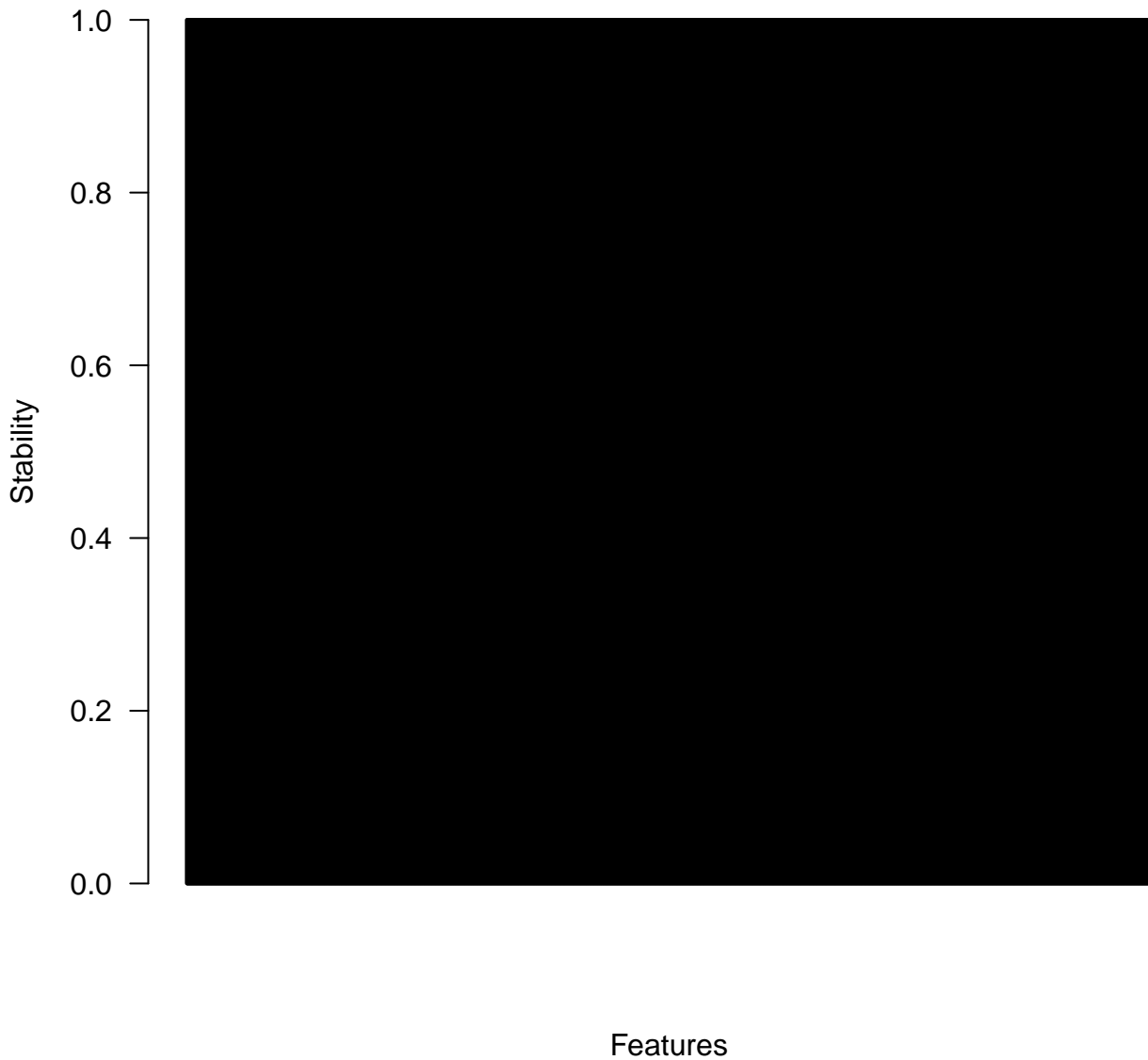
proteome Comp 1



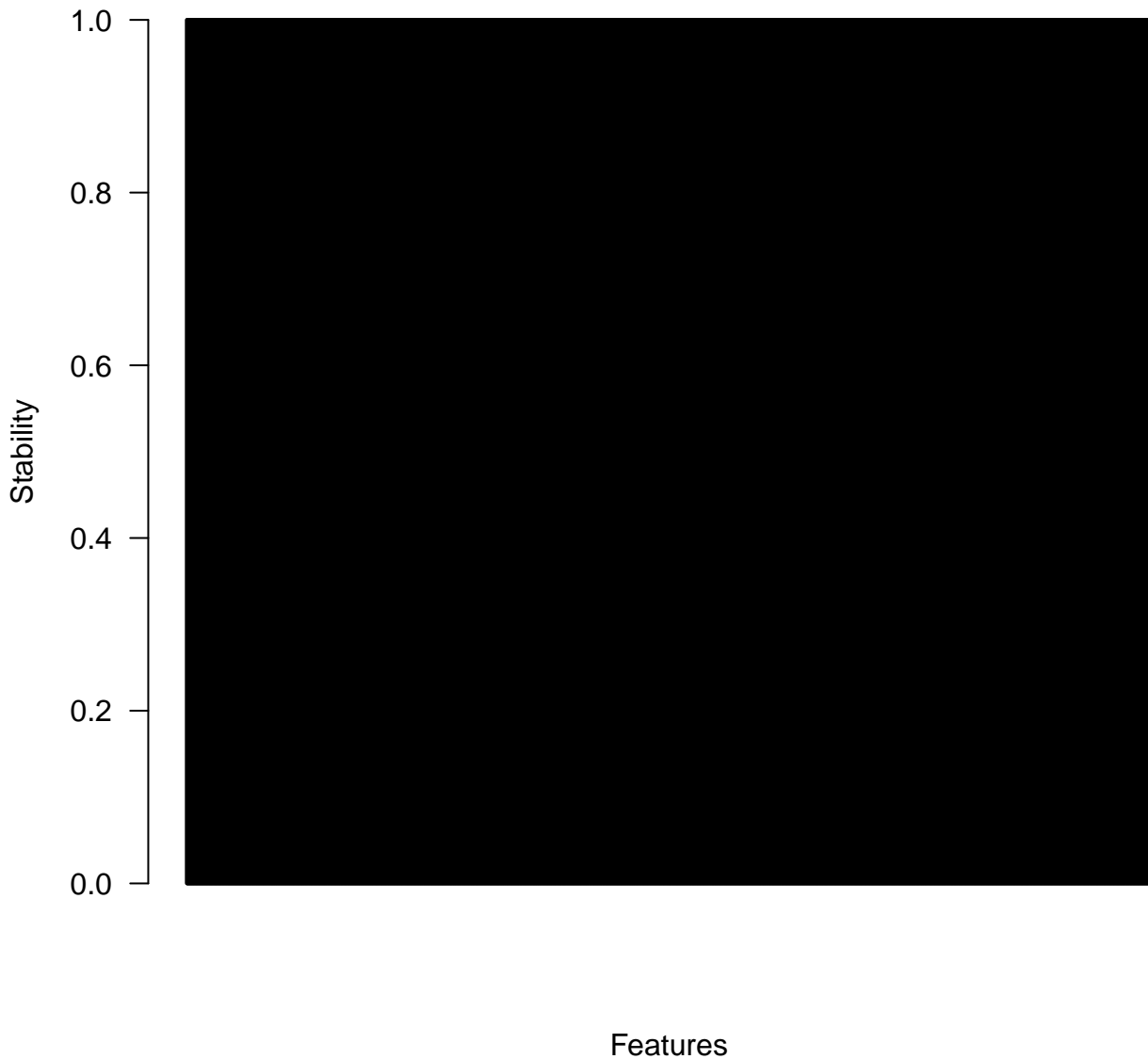
proteome Comp 2



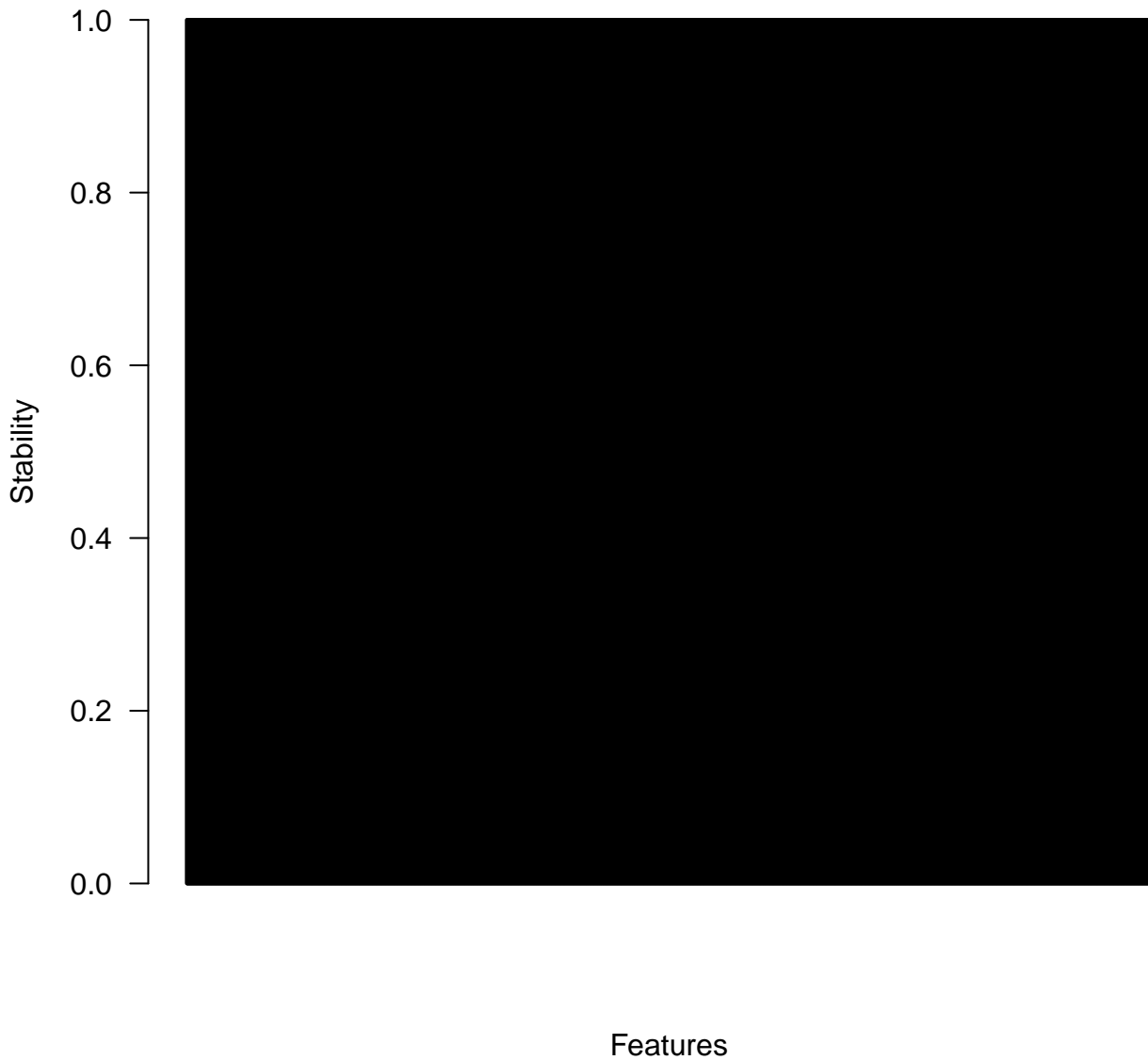
proteome Comp 3



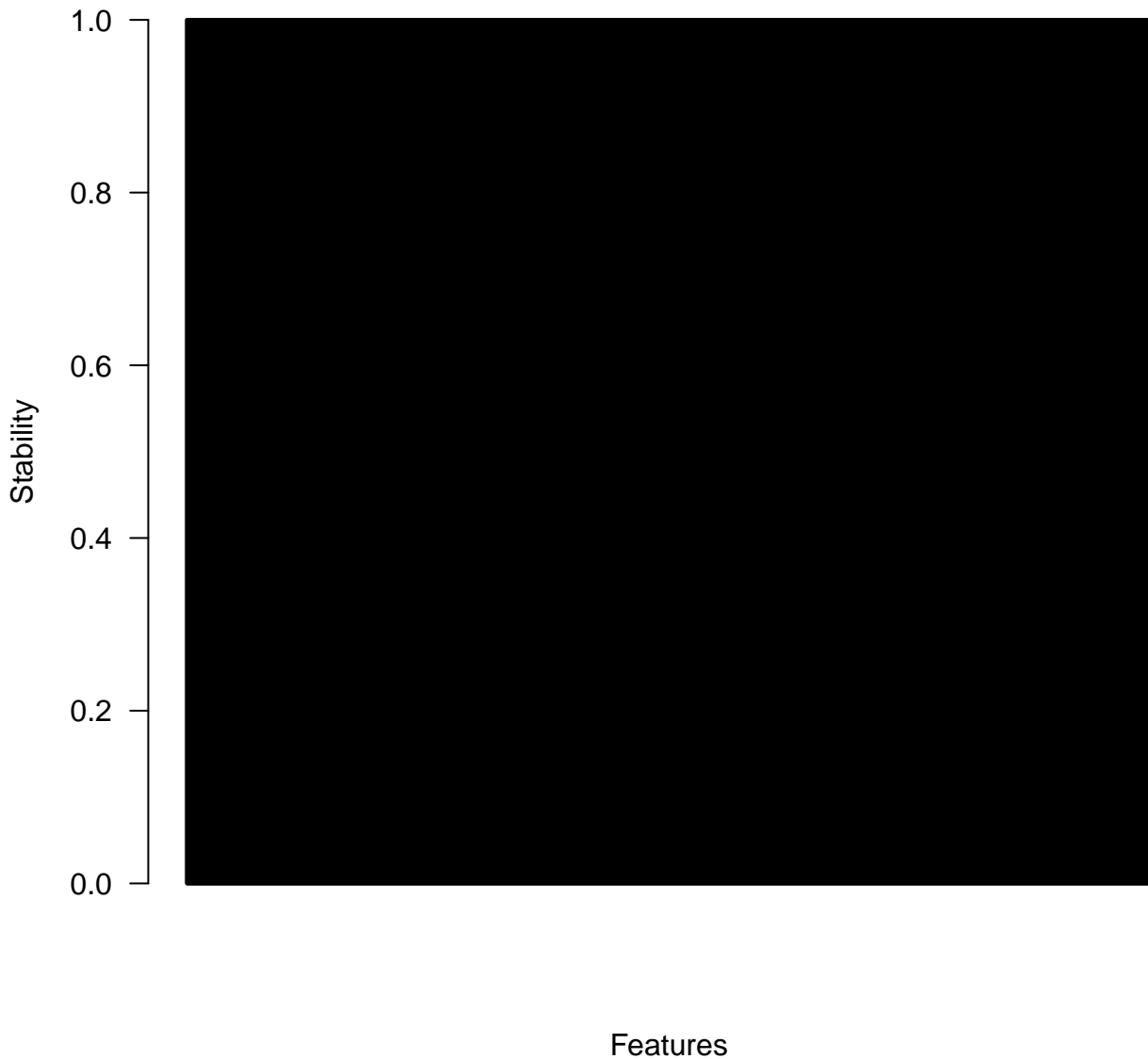
transcriptome Comp 1



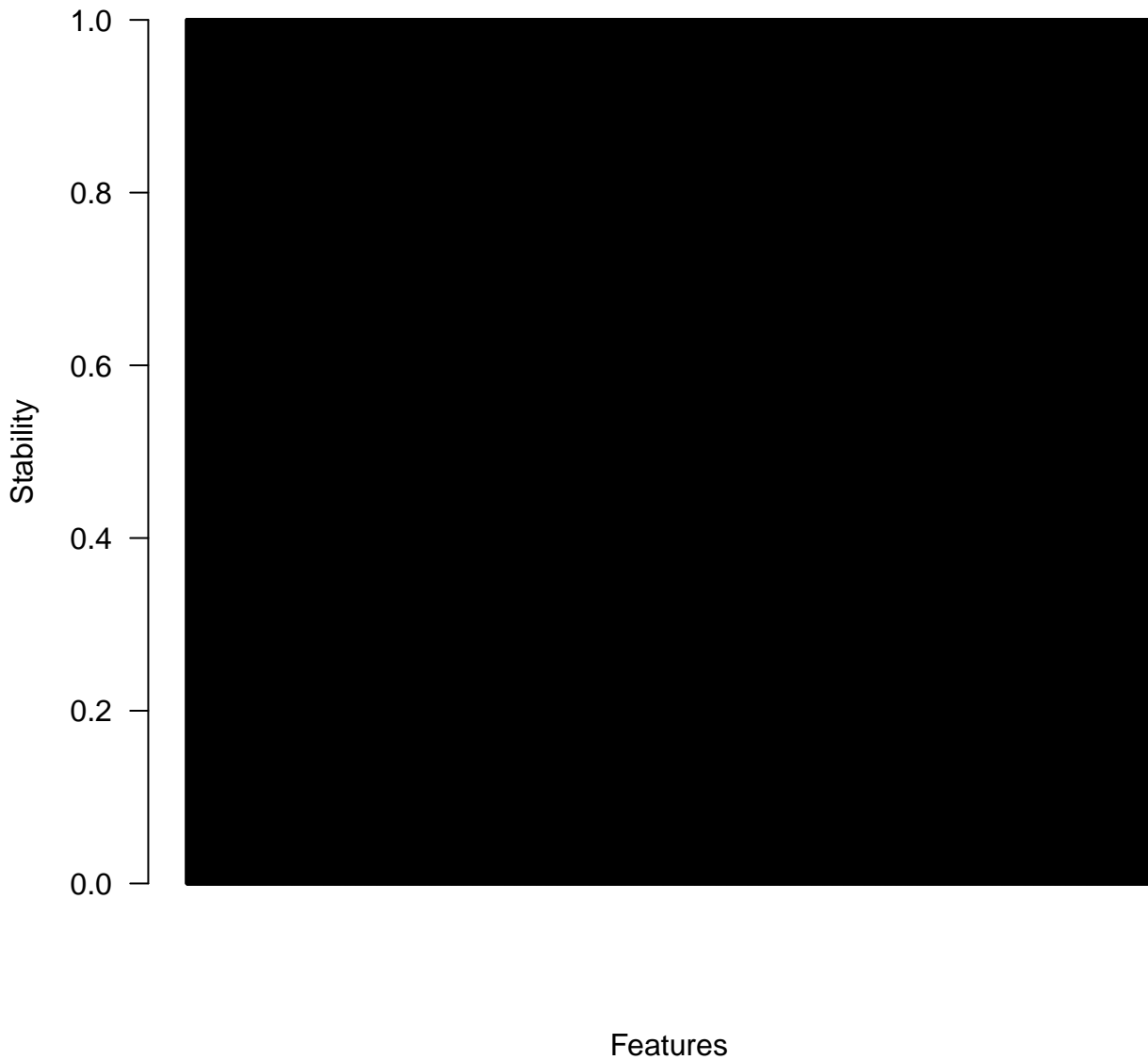
transcriptome Comp 2



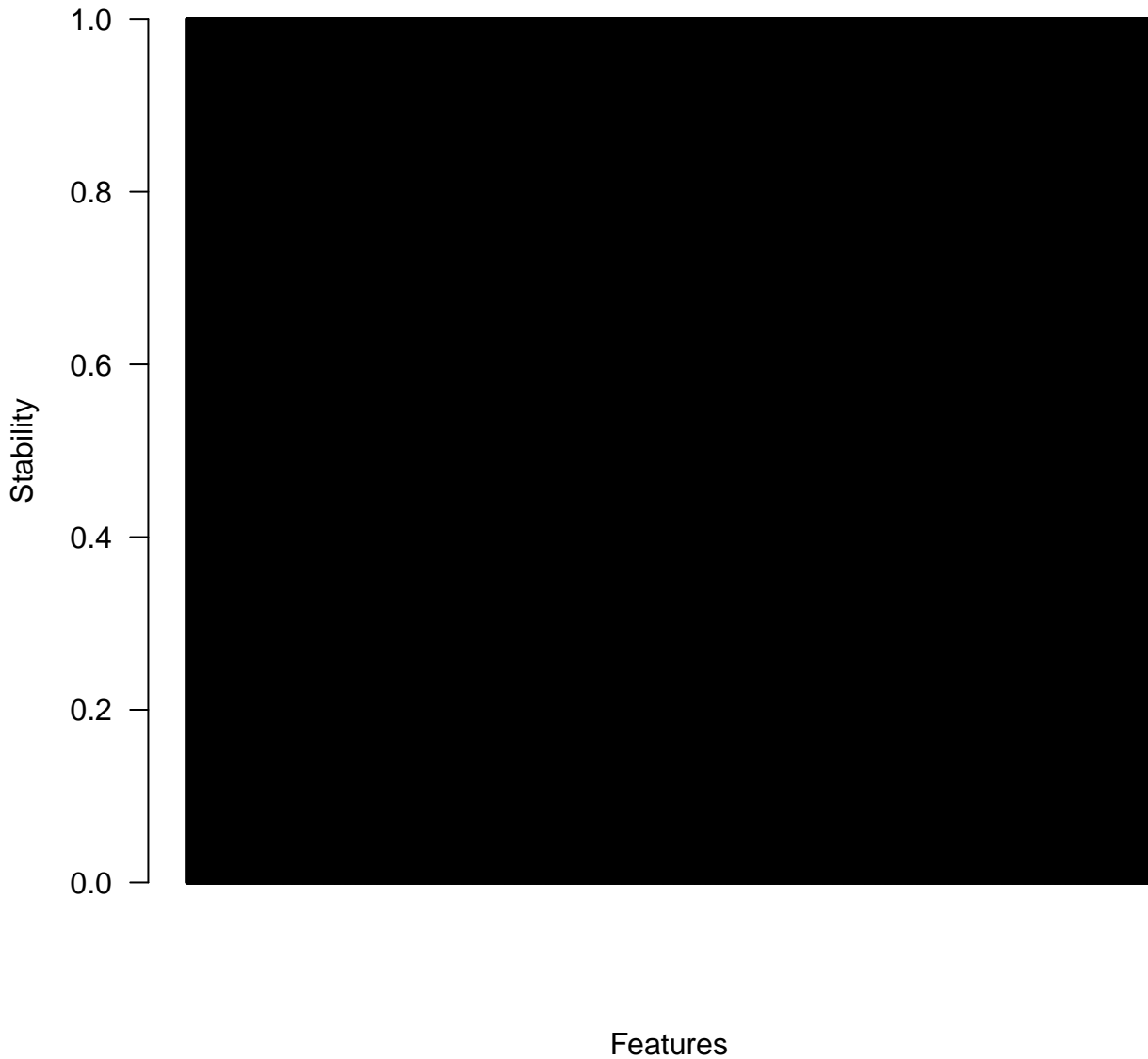
transcriptome Comp 3



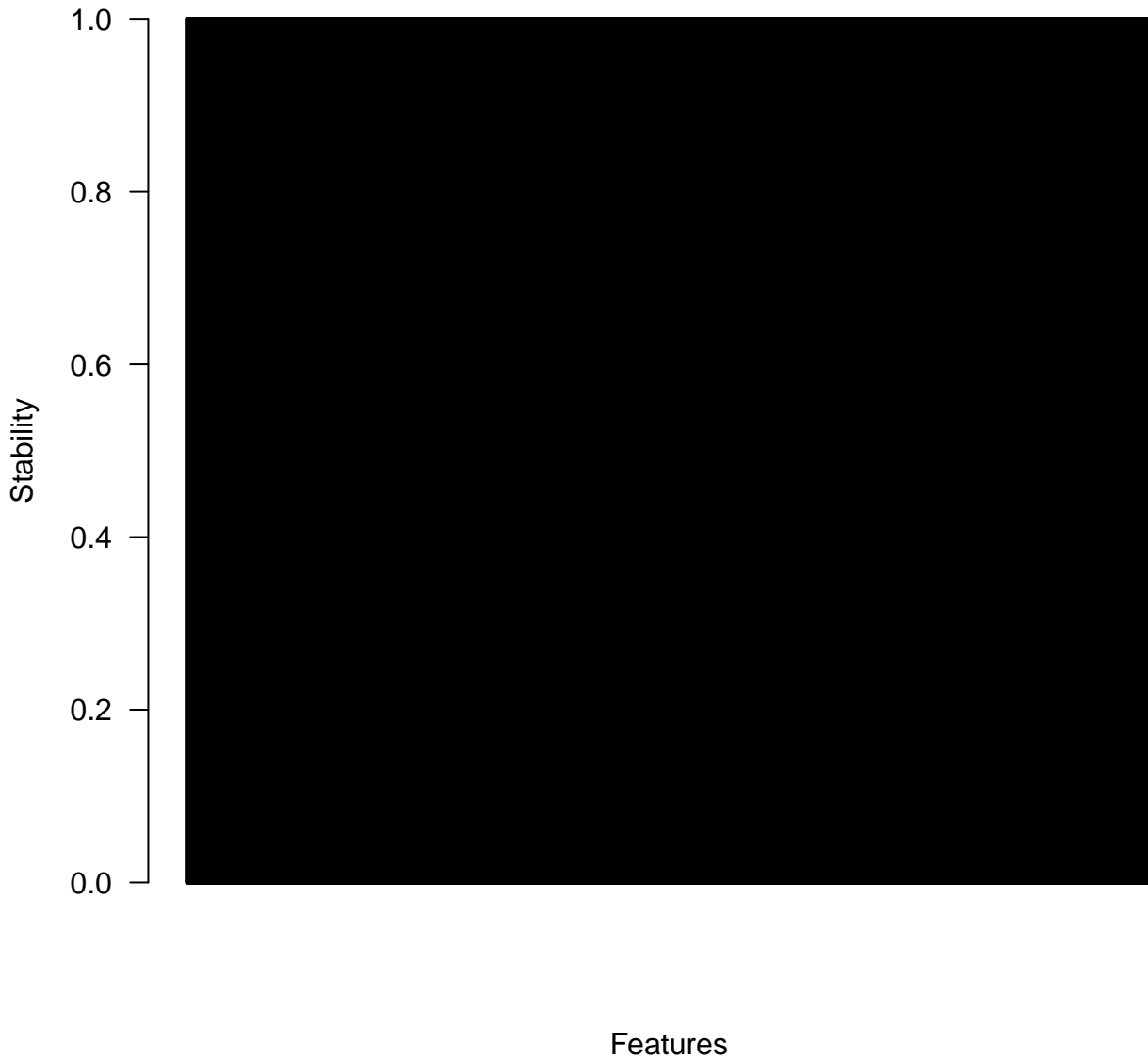
metabolome Comp 1



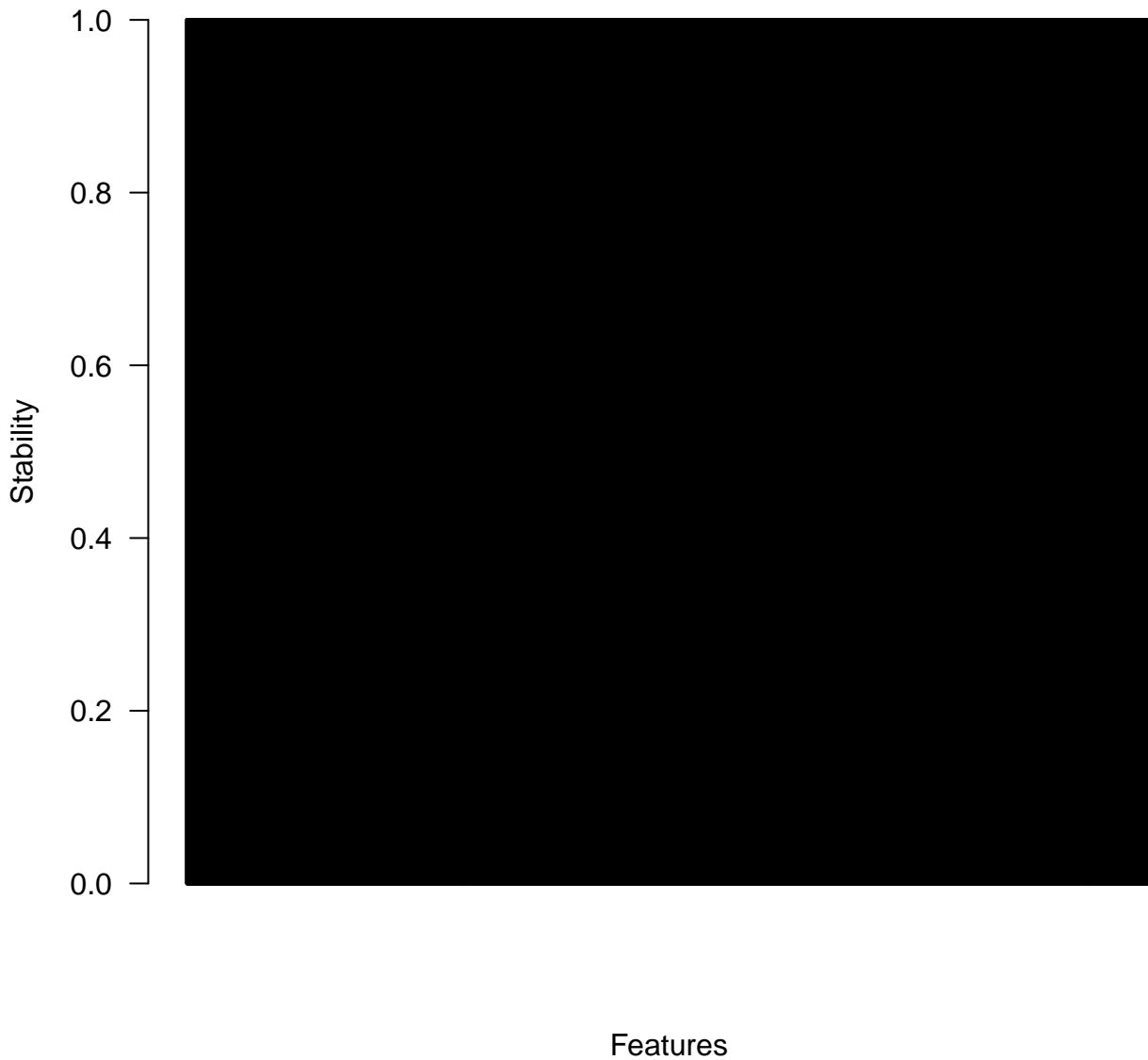
metabolome Comp 2



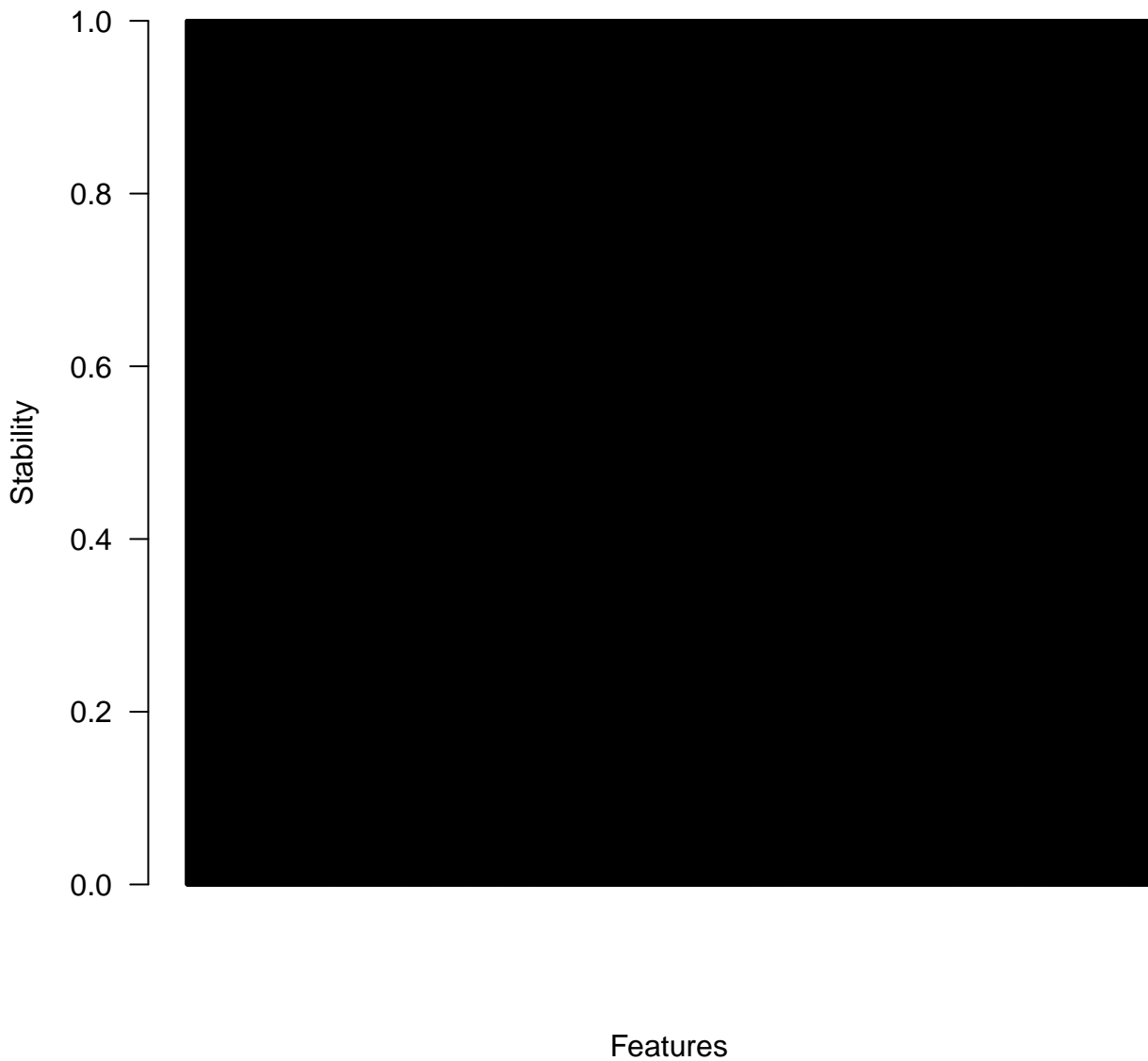
metabolome Comp 3



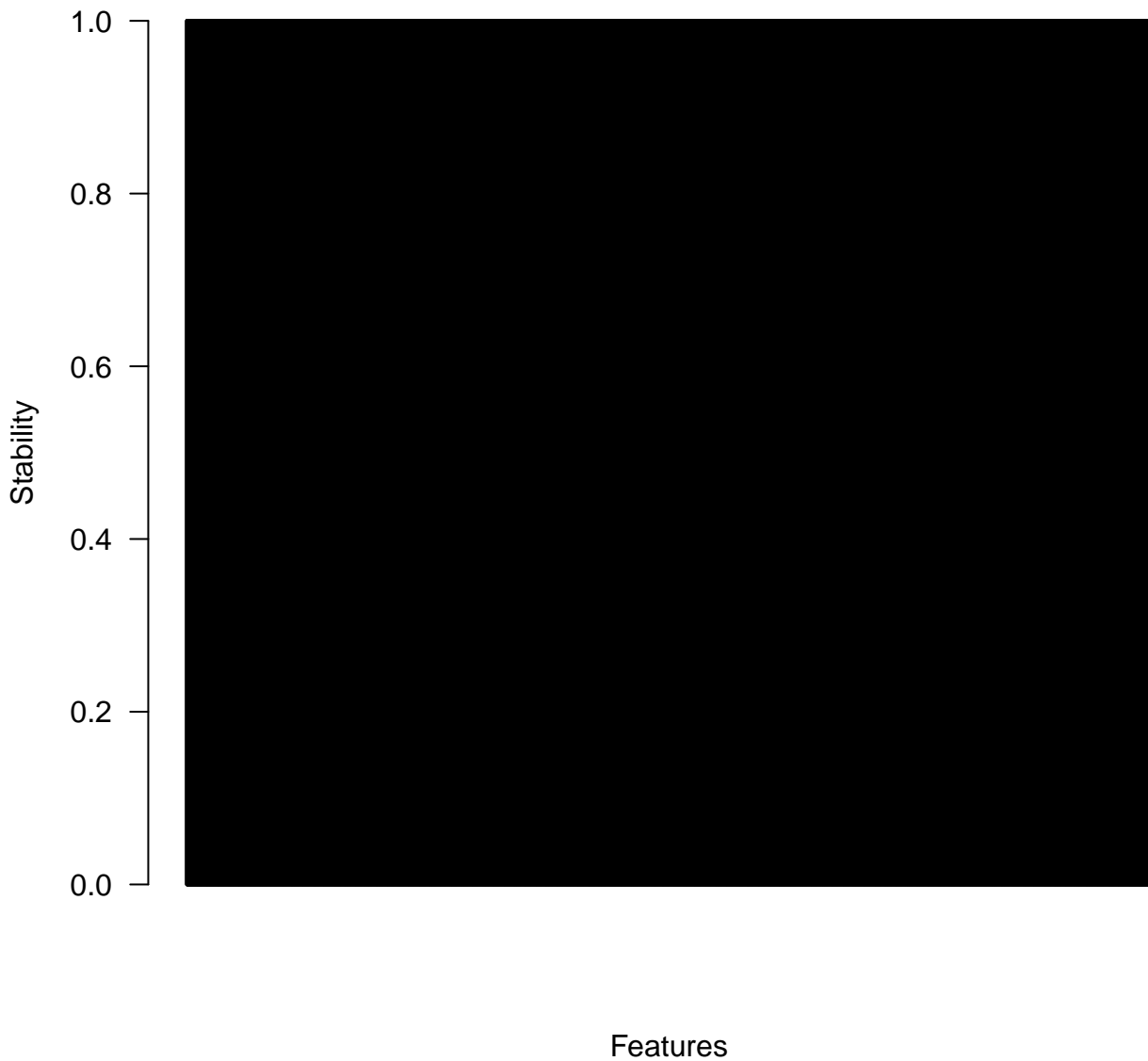
proteome Comp 1



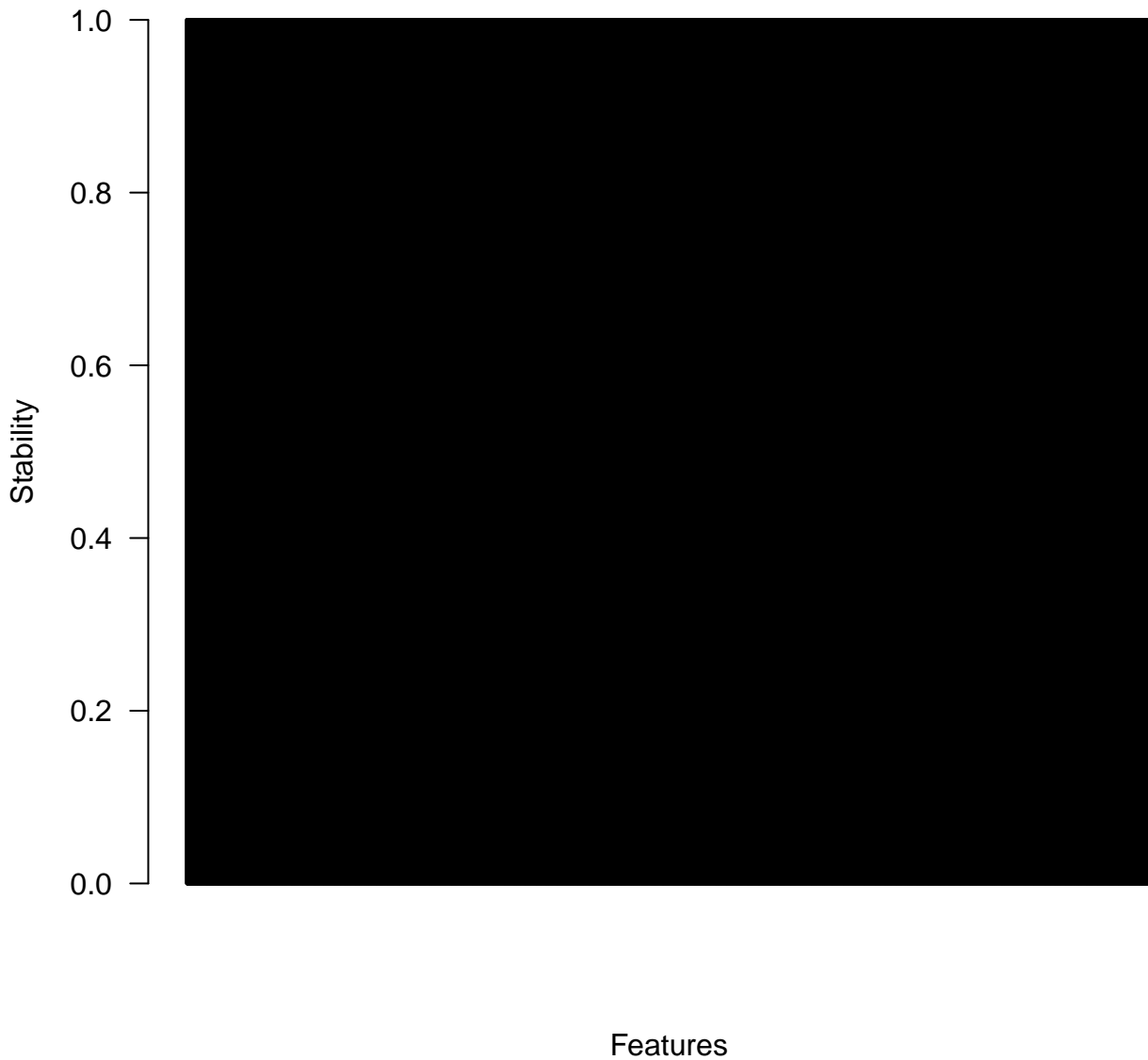
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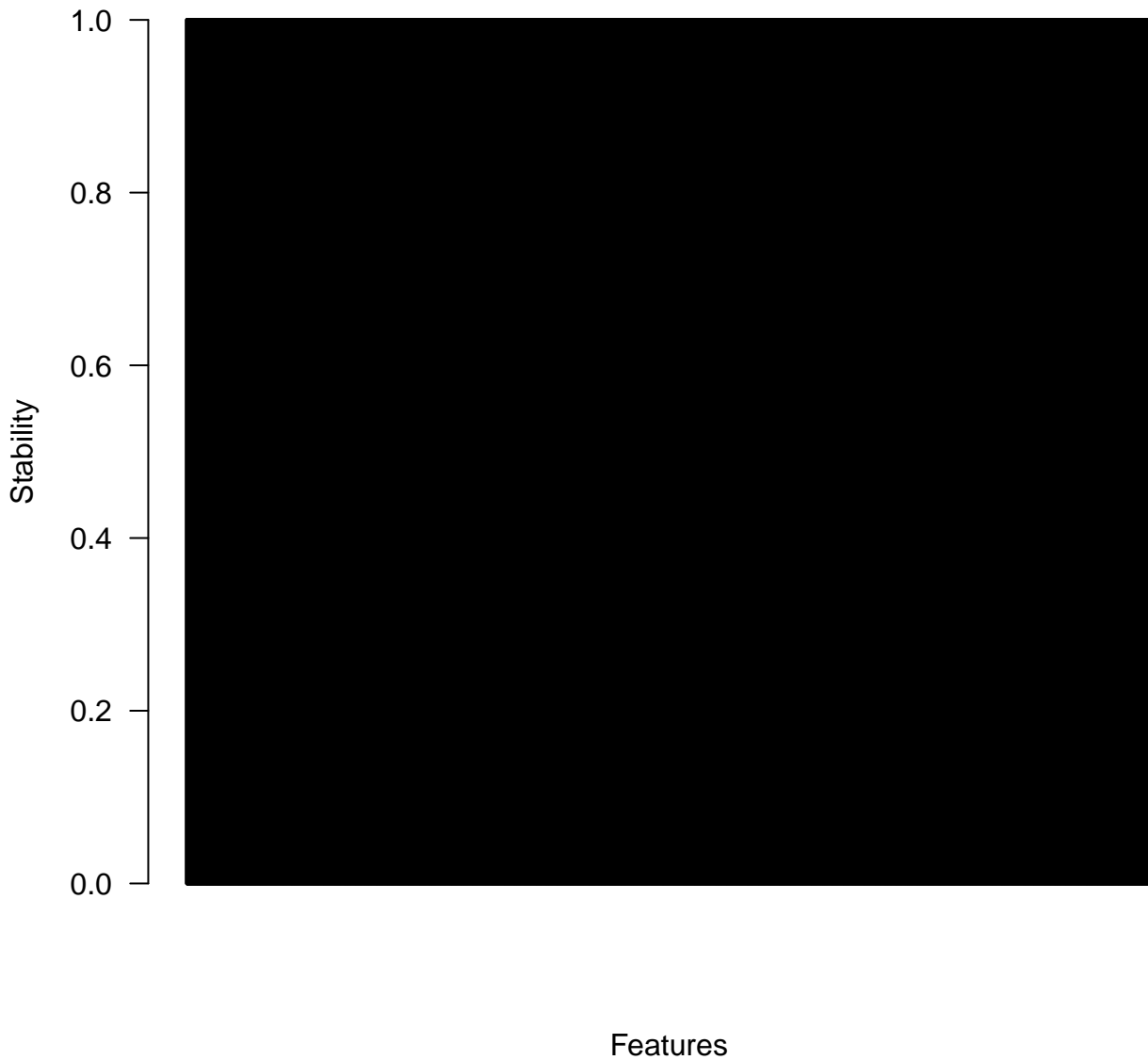
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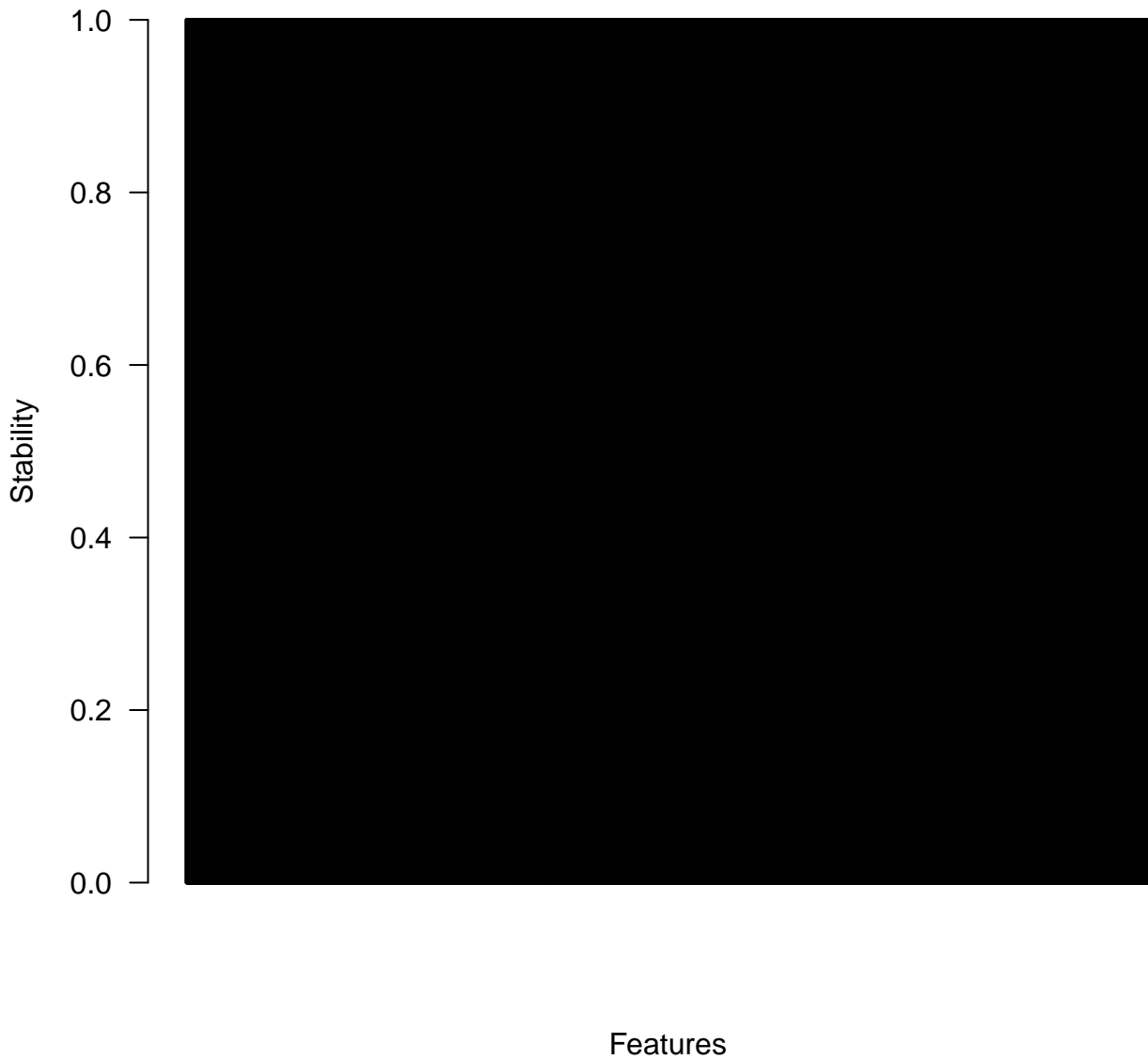
transcriptome Comp 1



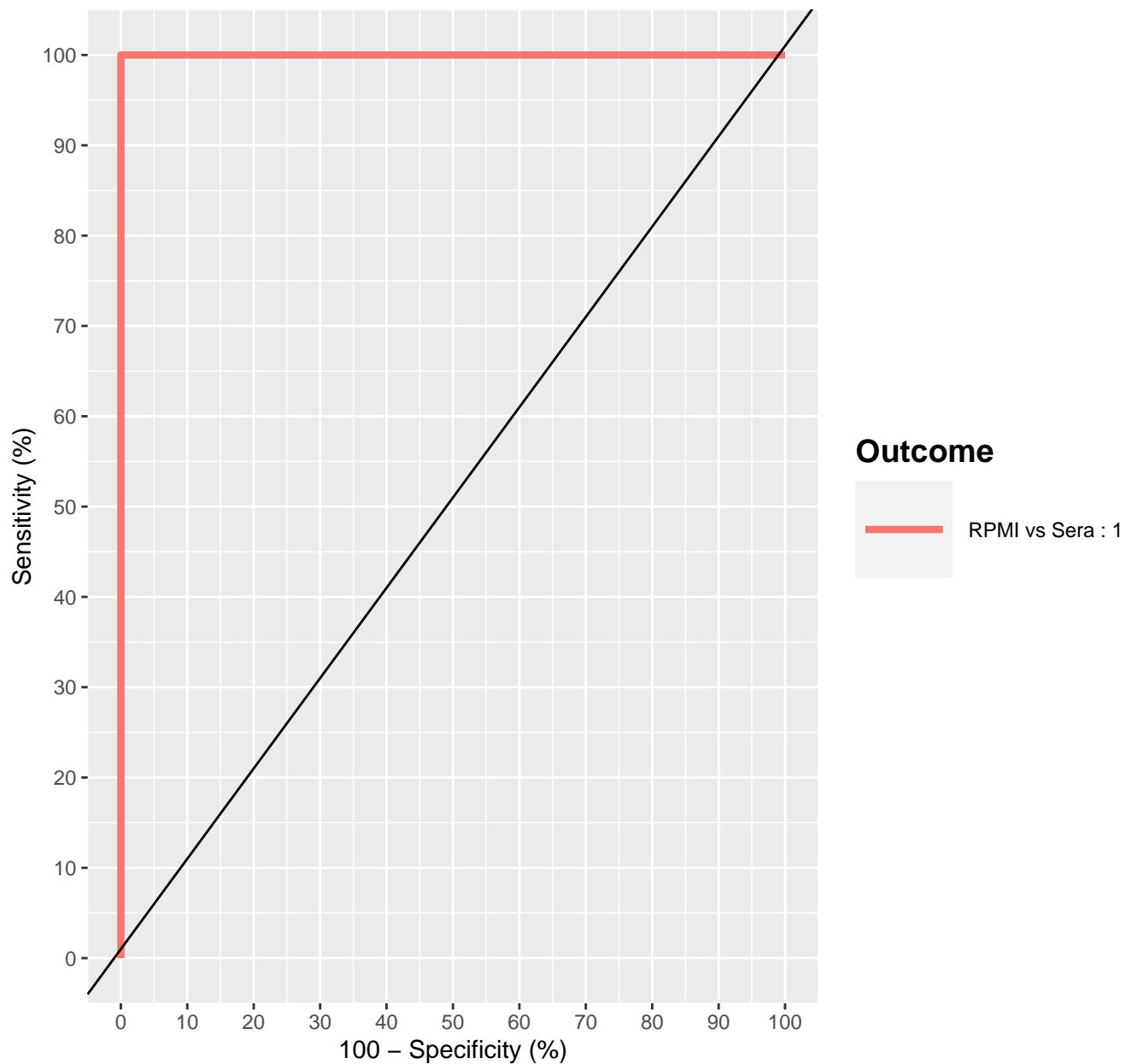
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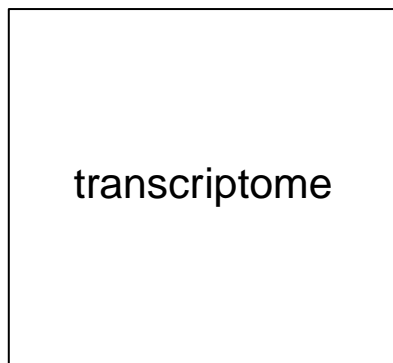
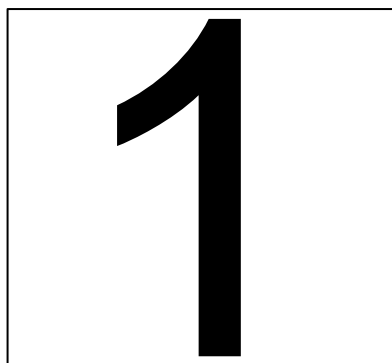
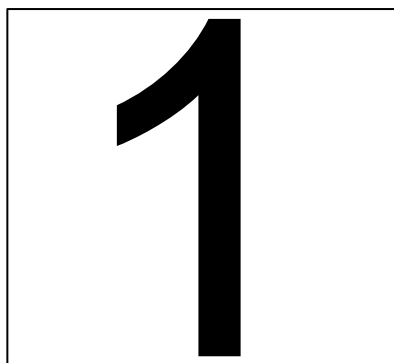
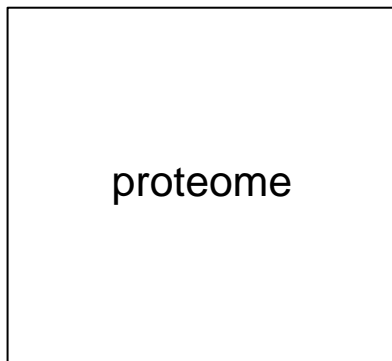
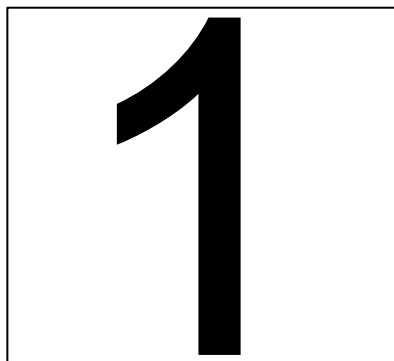
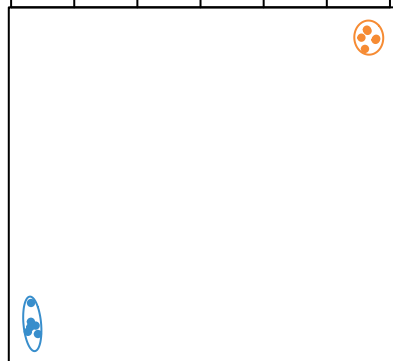
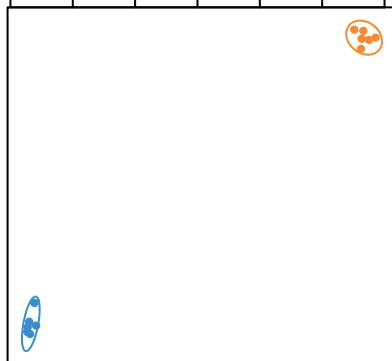
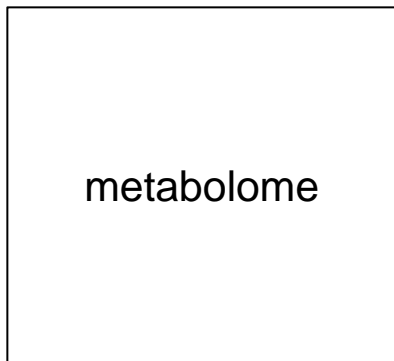


transcriptome Comp 3



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





Comp 1

Correlation cut-off
 $r=0.95$

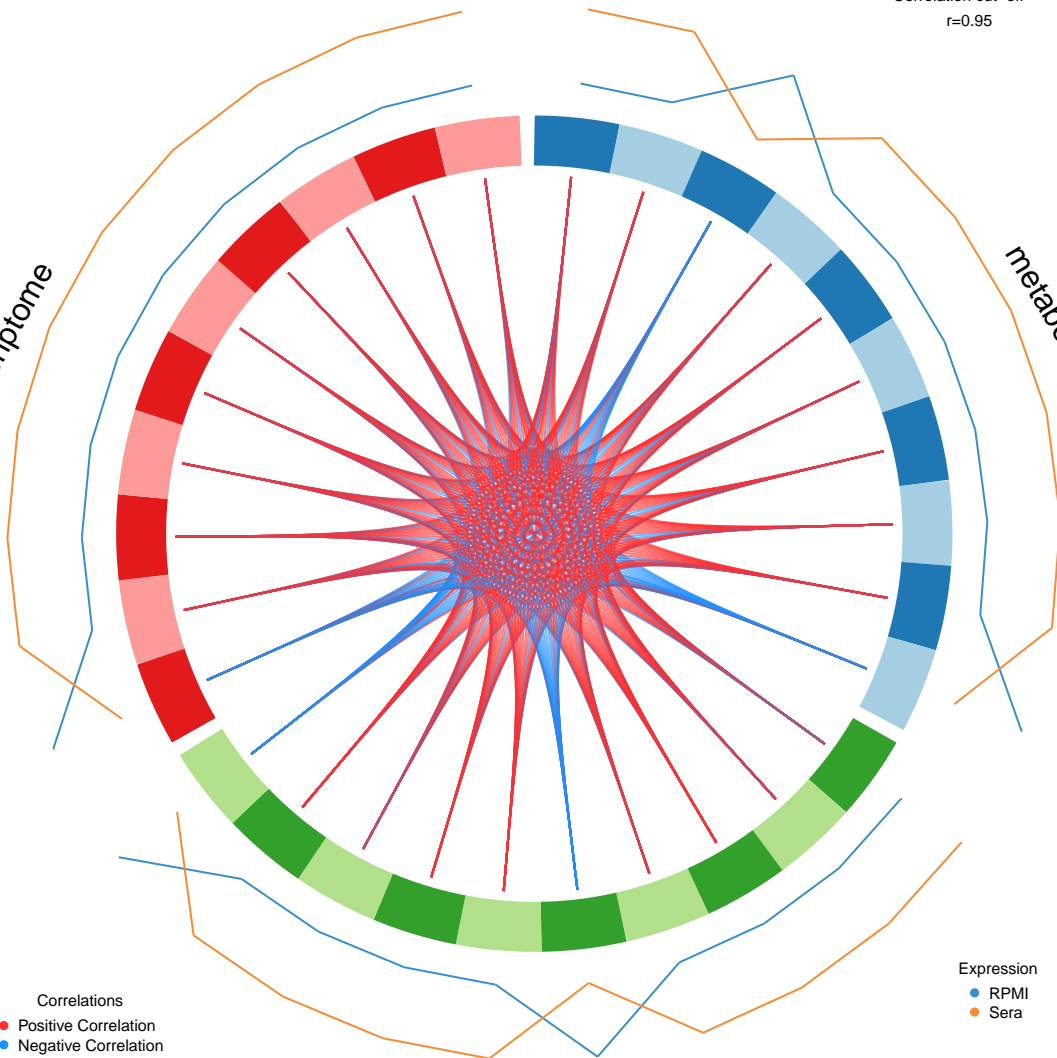
transcriptome

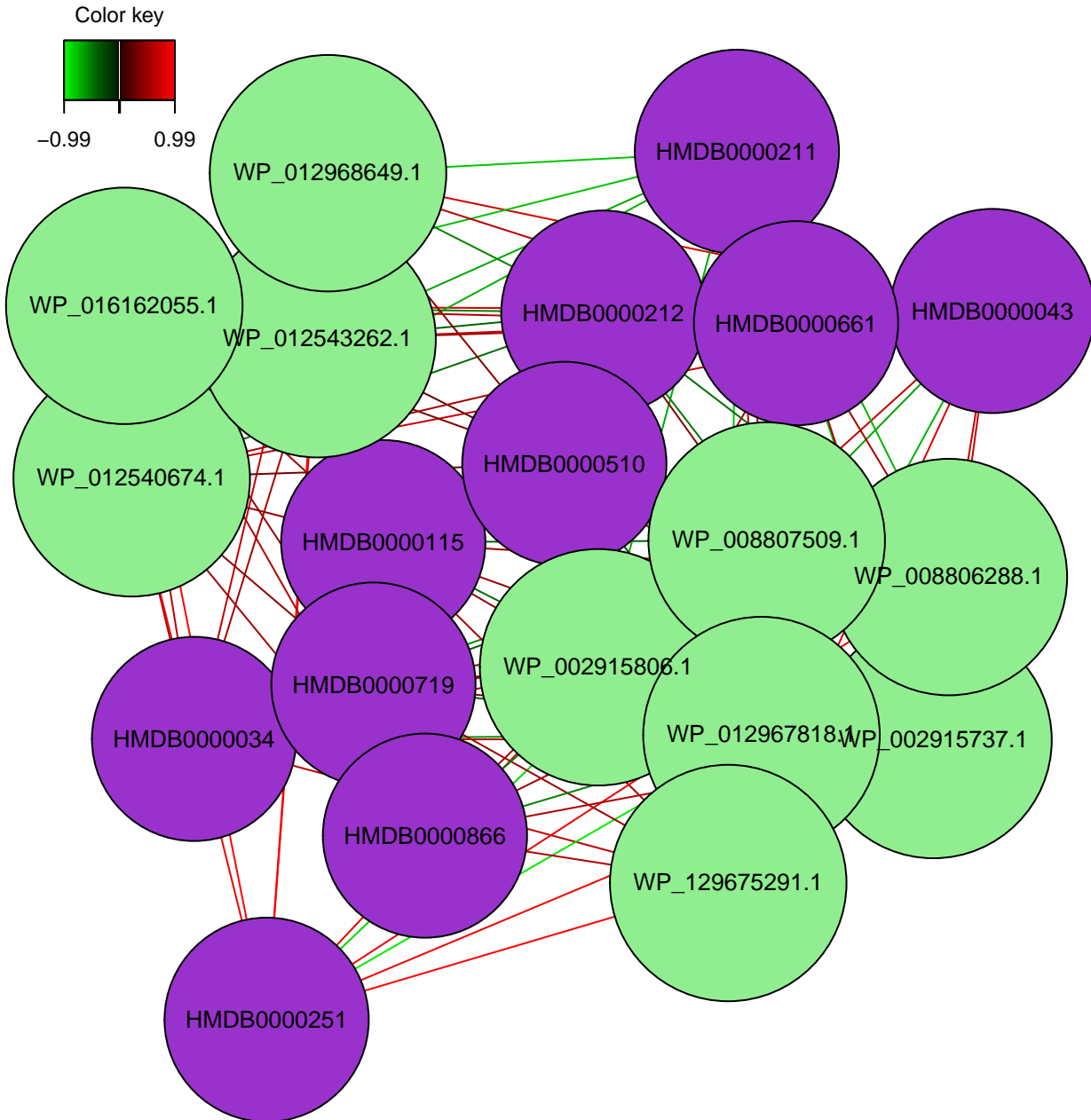
metabolome

Correlations
● Positive Correlation
● Negative Correlation

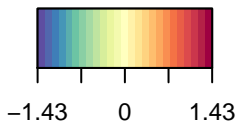
Expression
● RPMI
● Sera

proteome





Color key

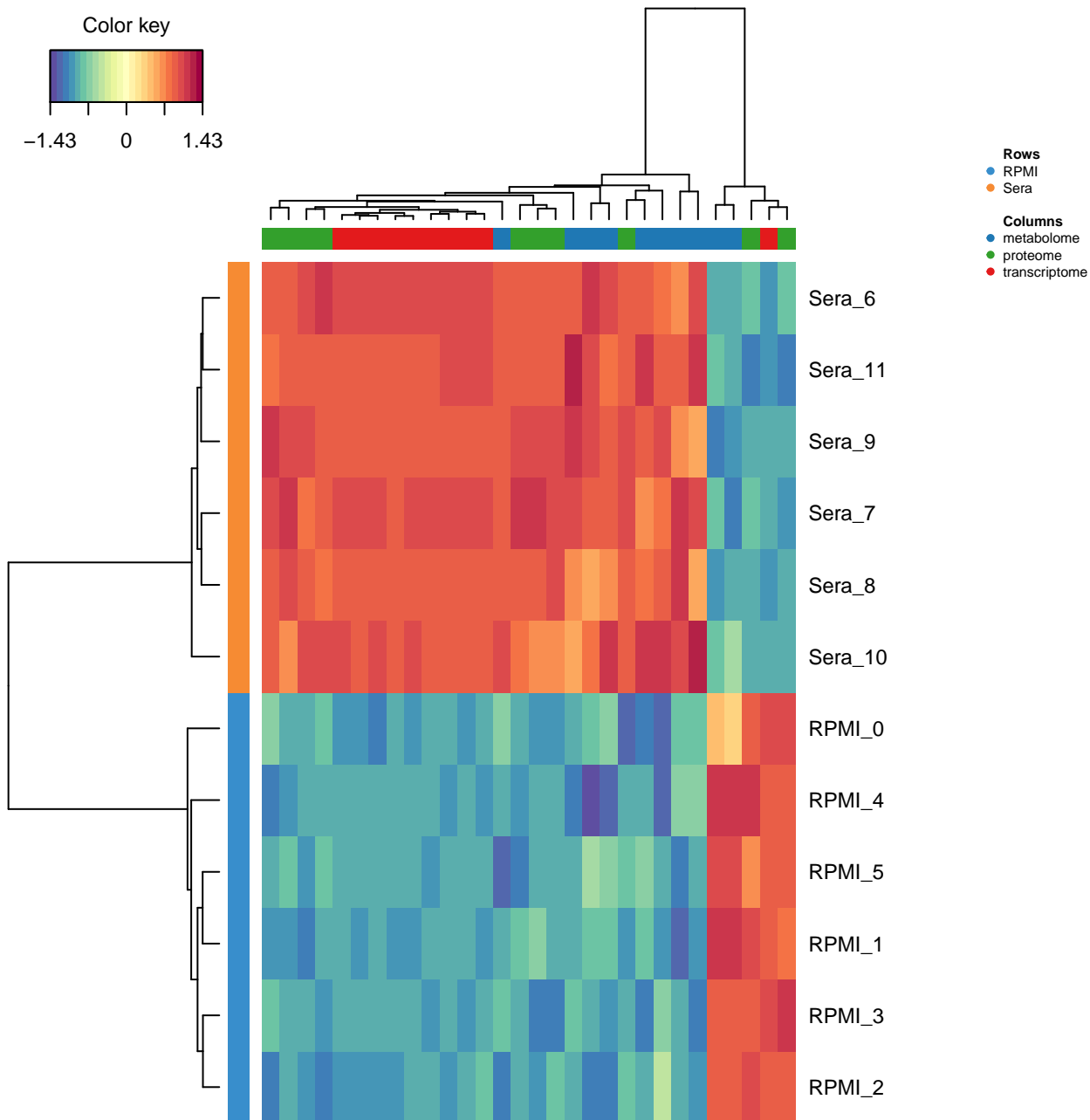


Rows

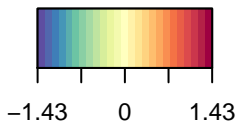
- RPMI
- Sera

Columns

- metabolome
- proteome
- transcriptome



Color key

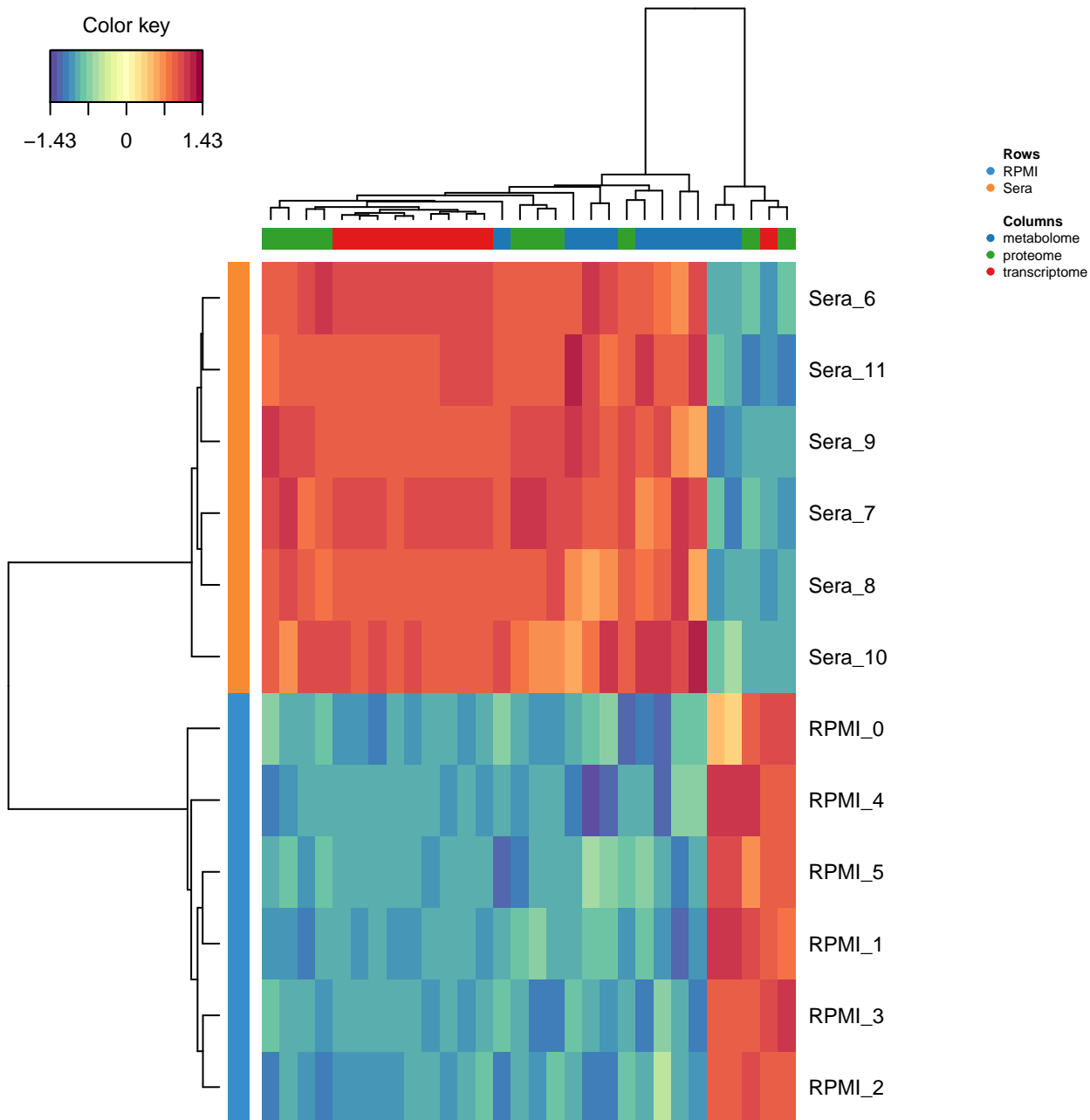


Rows

- RPMI
- Sera

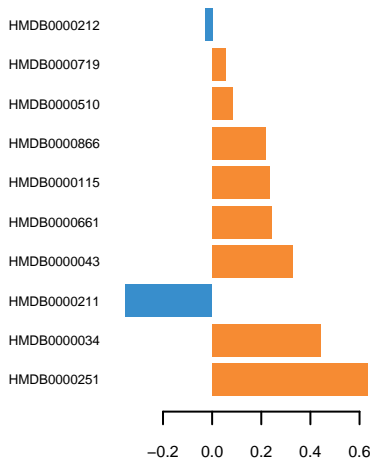
Columns

- metabolome
- proteome
- transcriptome

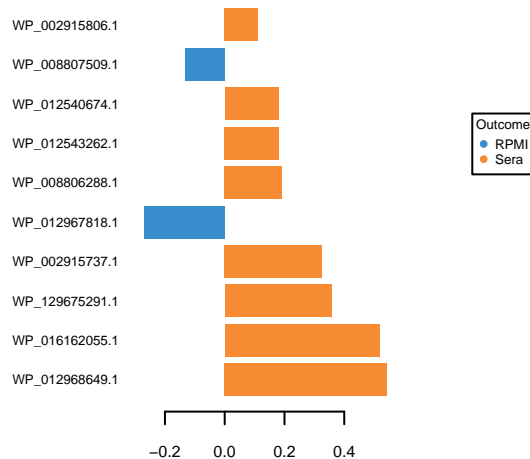


1 DIABLO max loadings

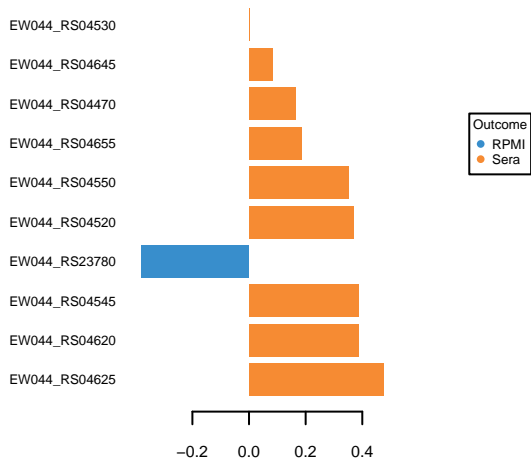
Contribution on comp 1
Block 'metabolome'



Contribution on comp 1
Block 'proteome'

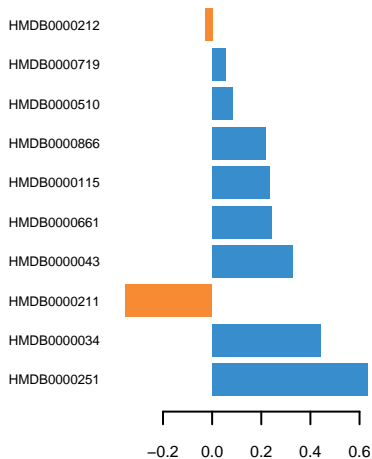


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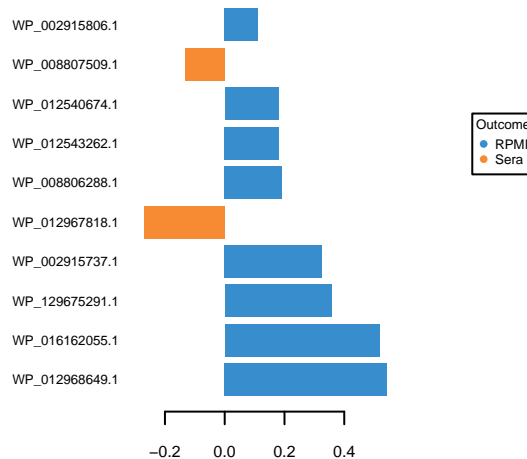


1 DIABLO min loadings

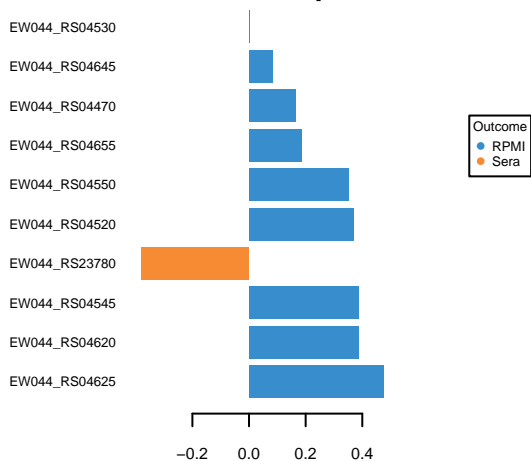
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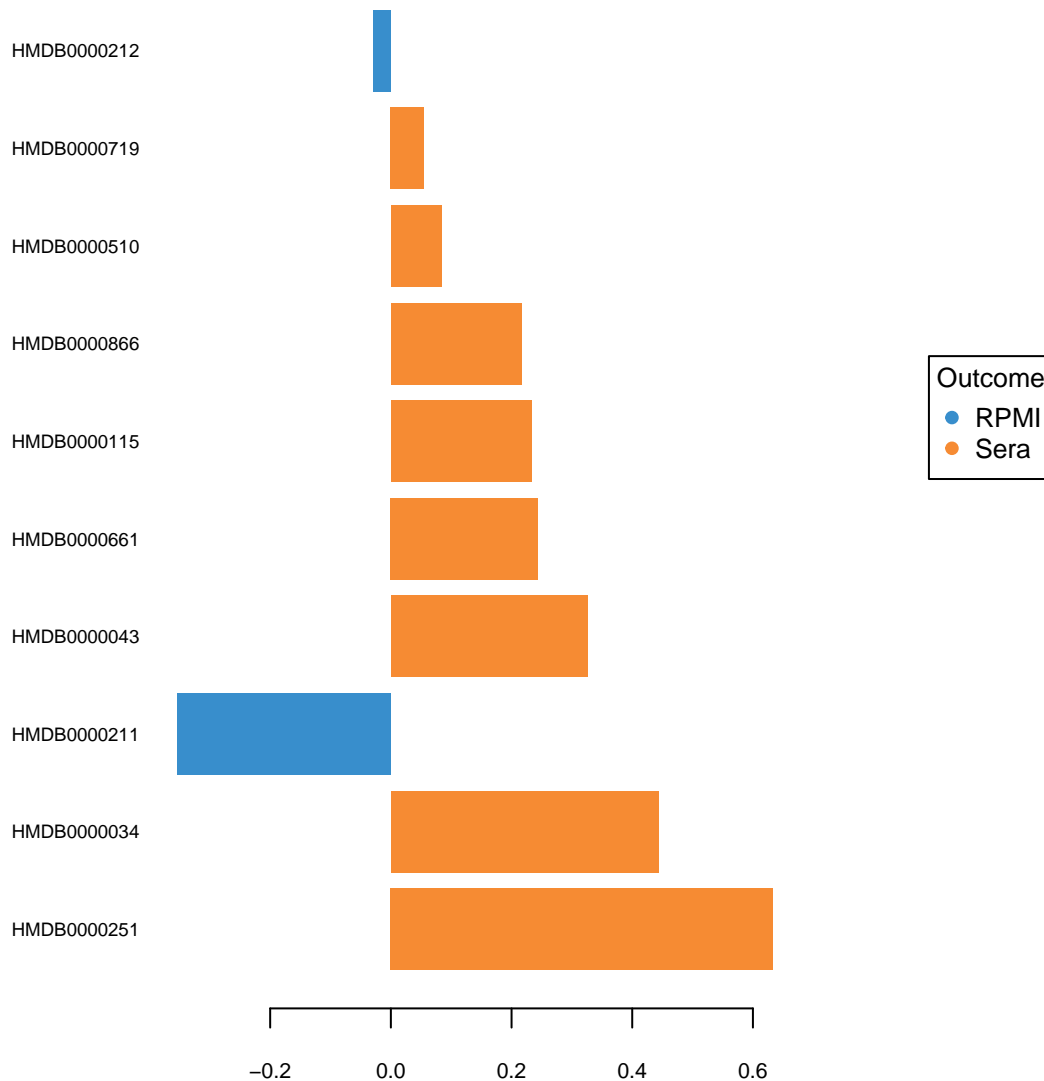
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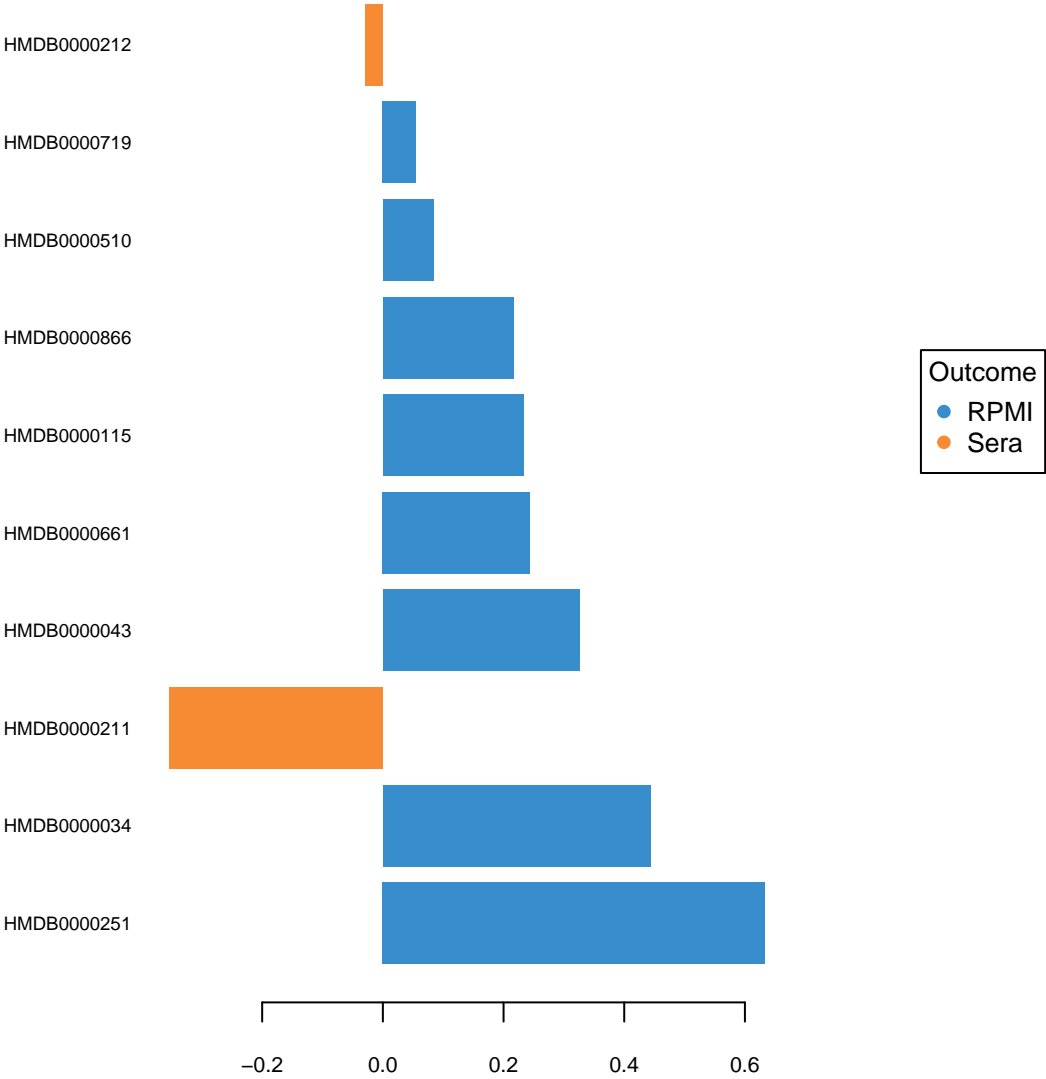
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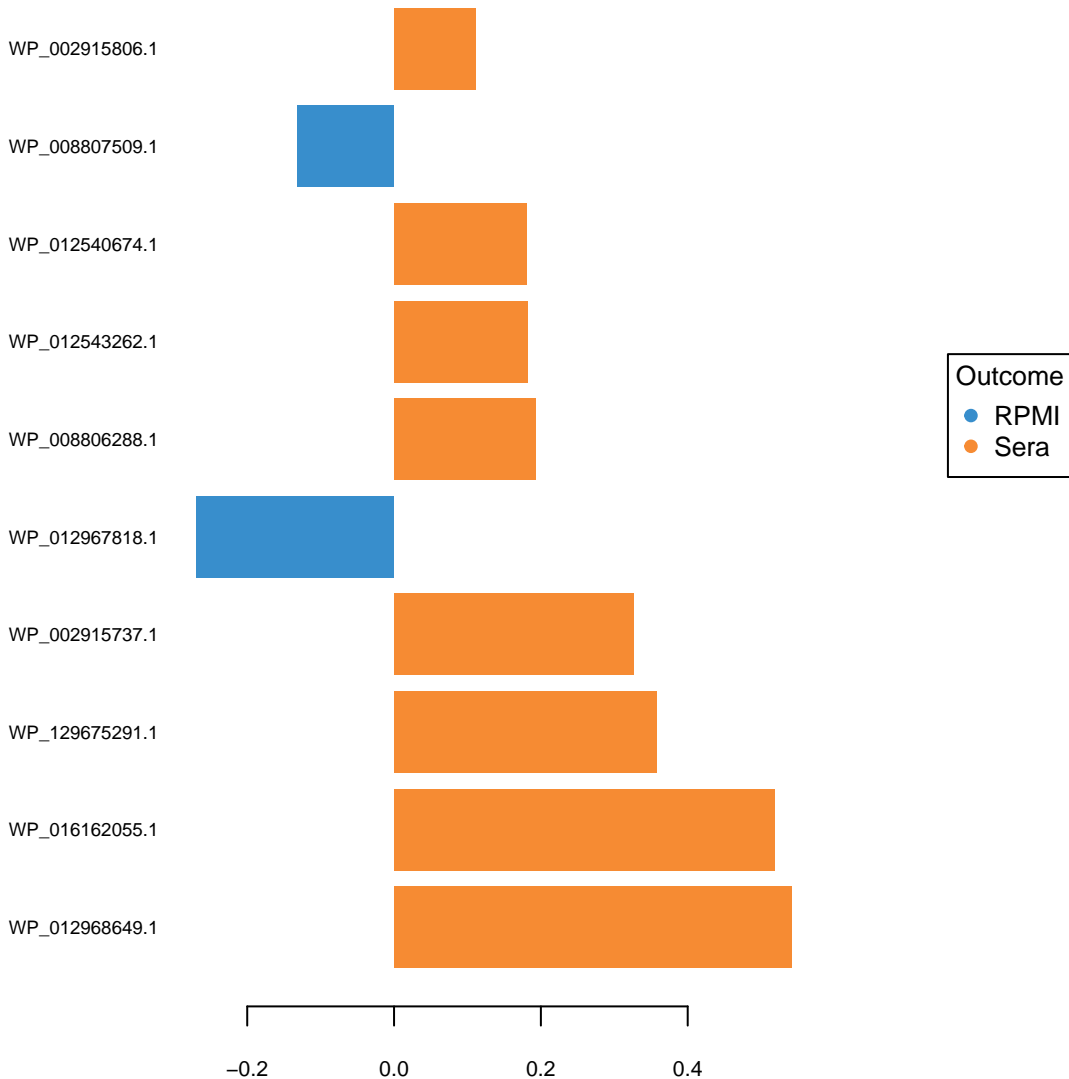
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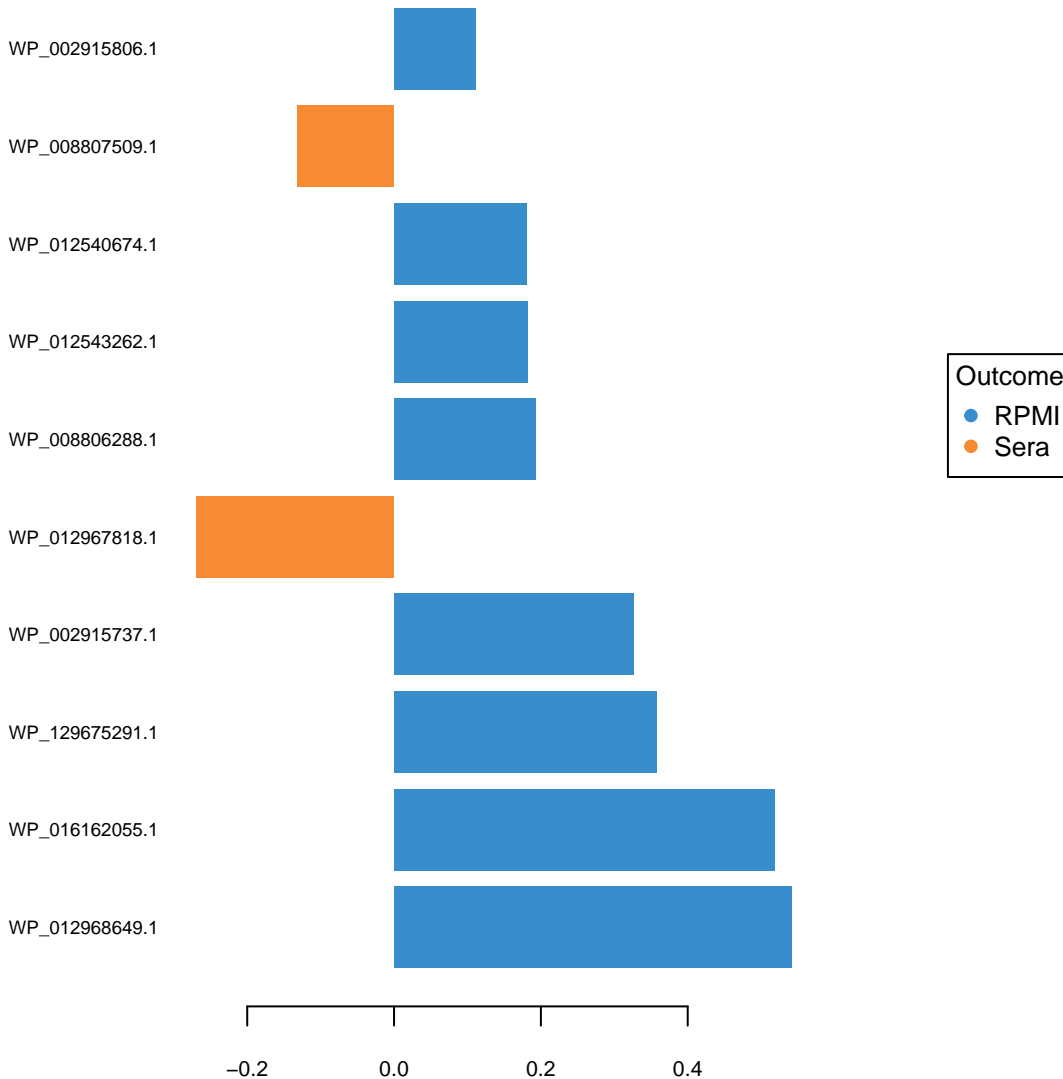
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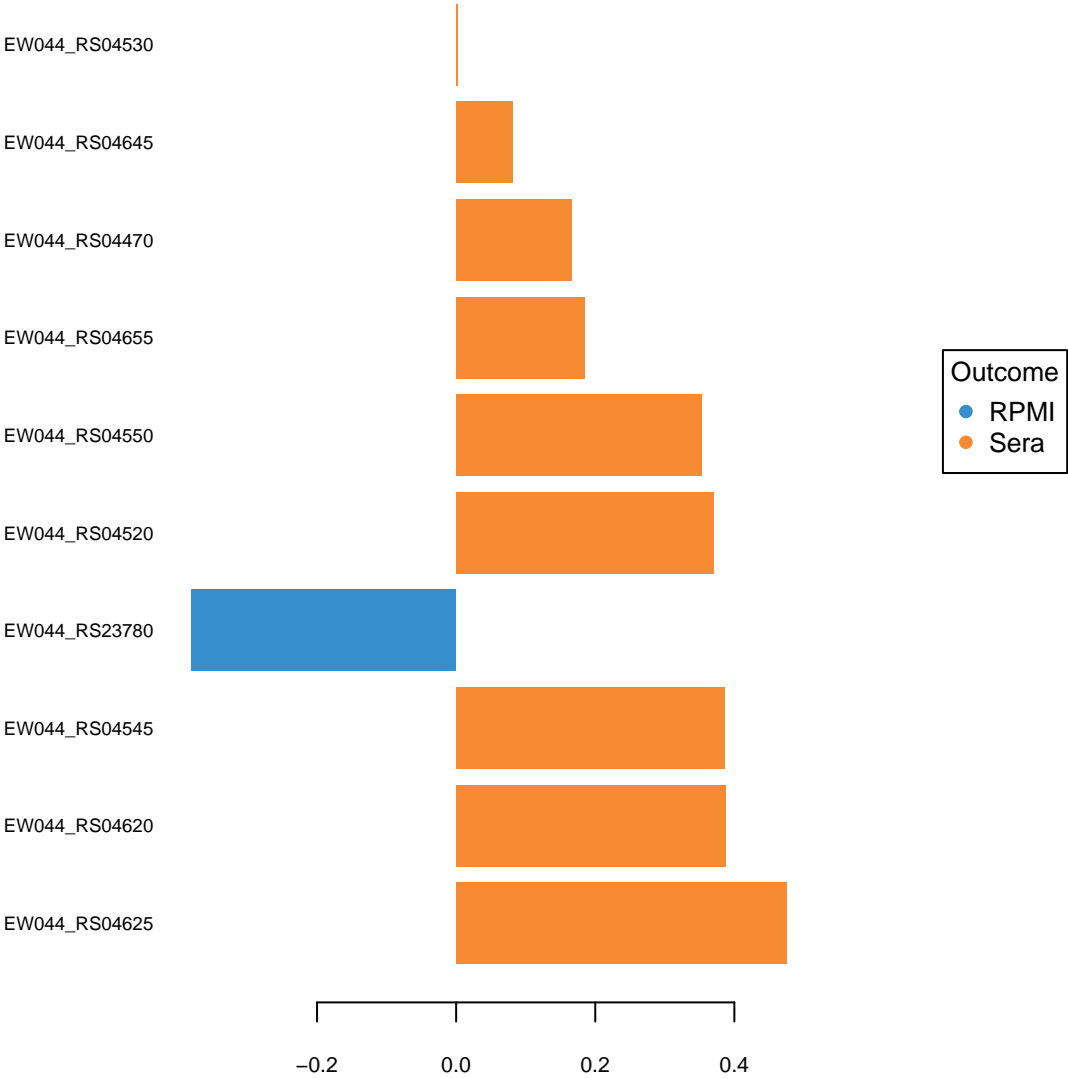
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1 proteome DIABLO min load



1 transcriptome DIABLO max loa



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