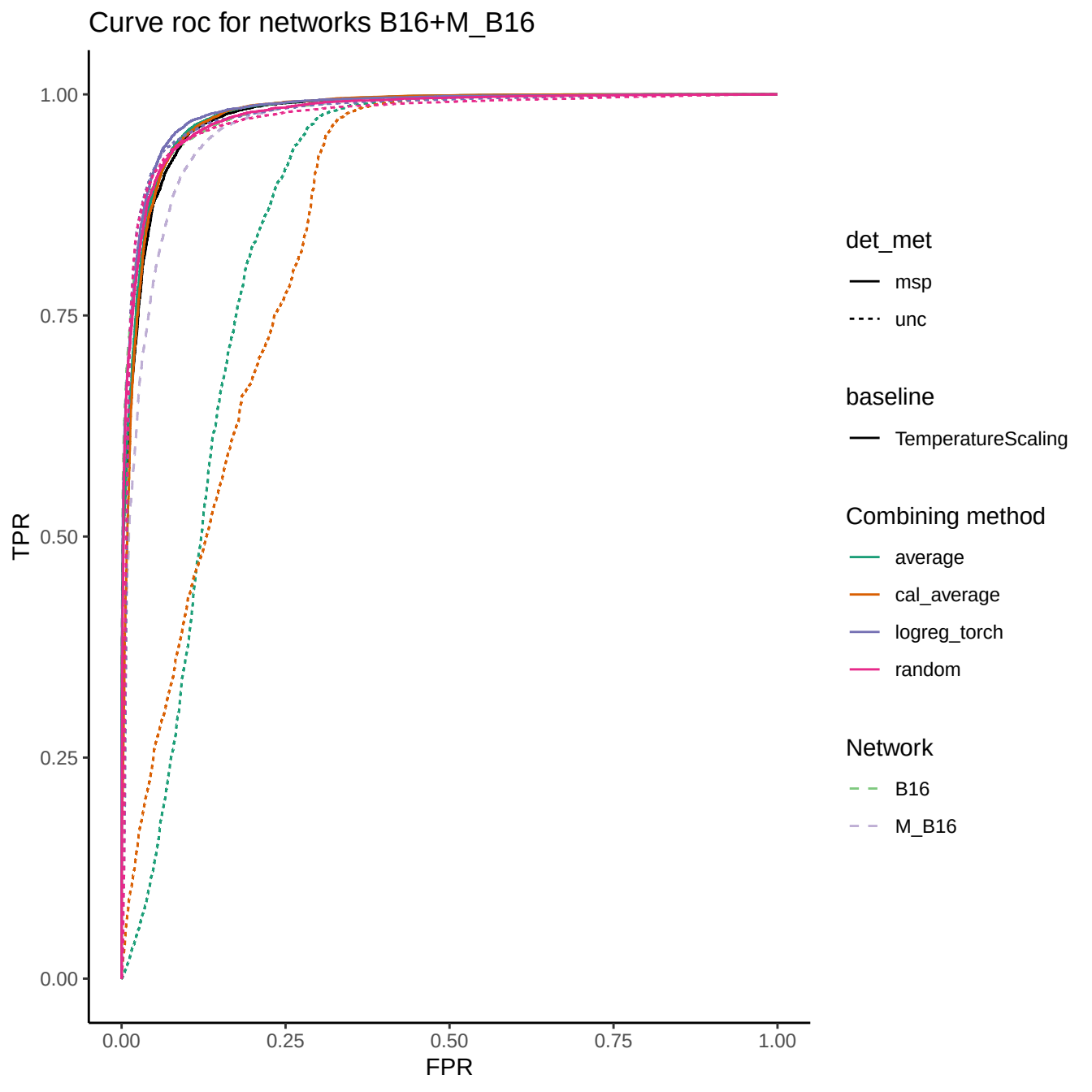
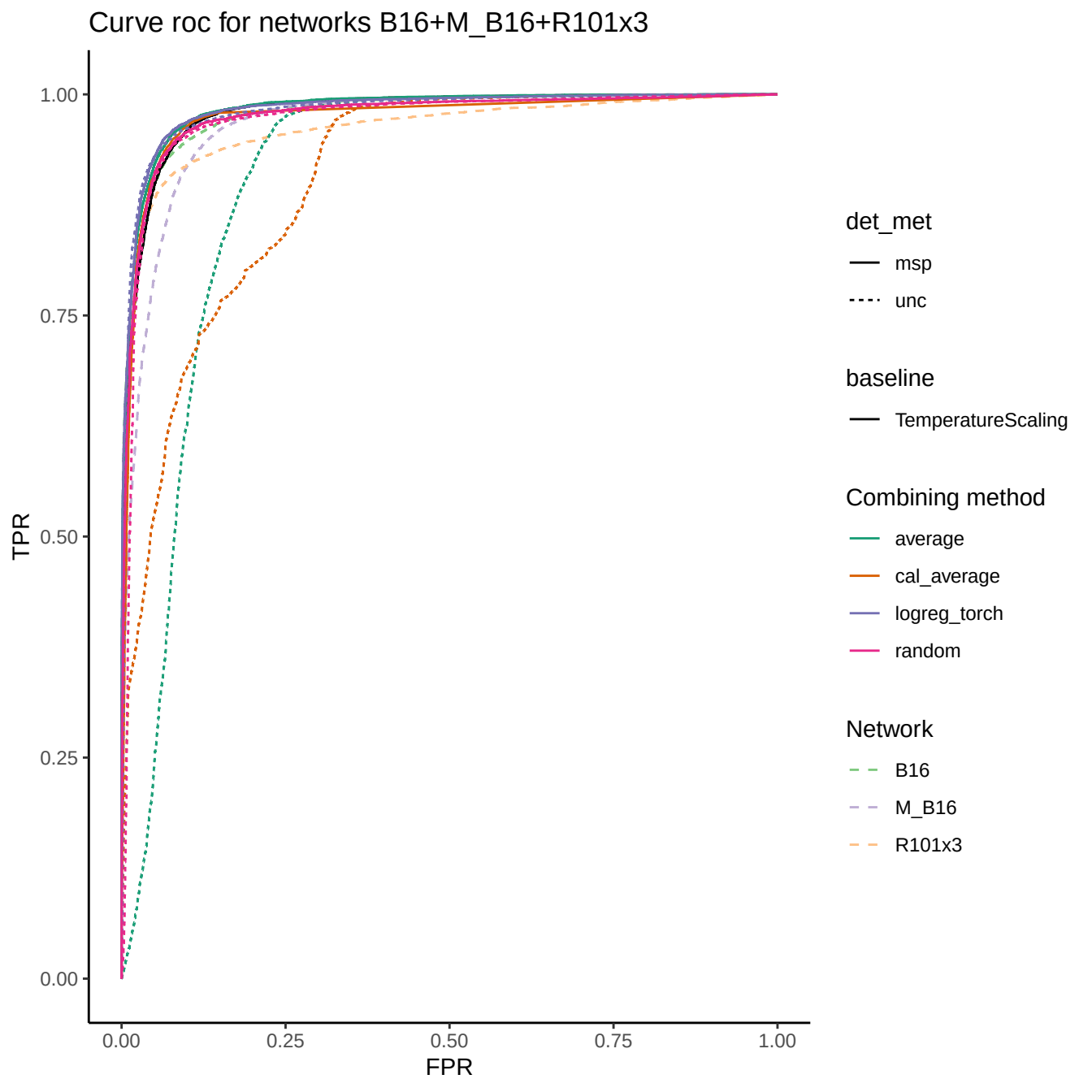
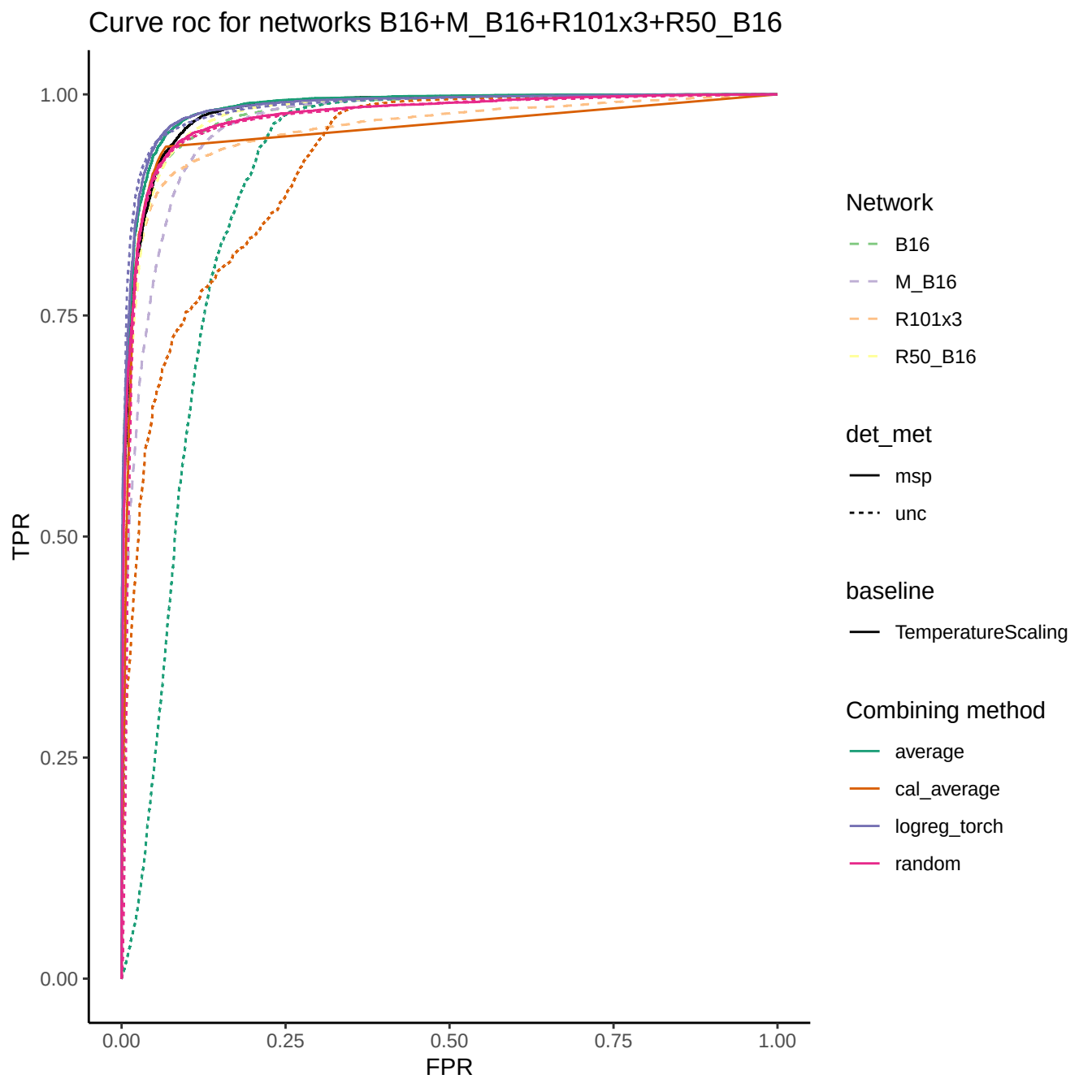
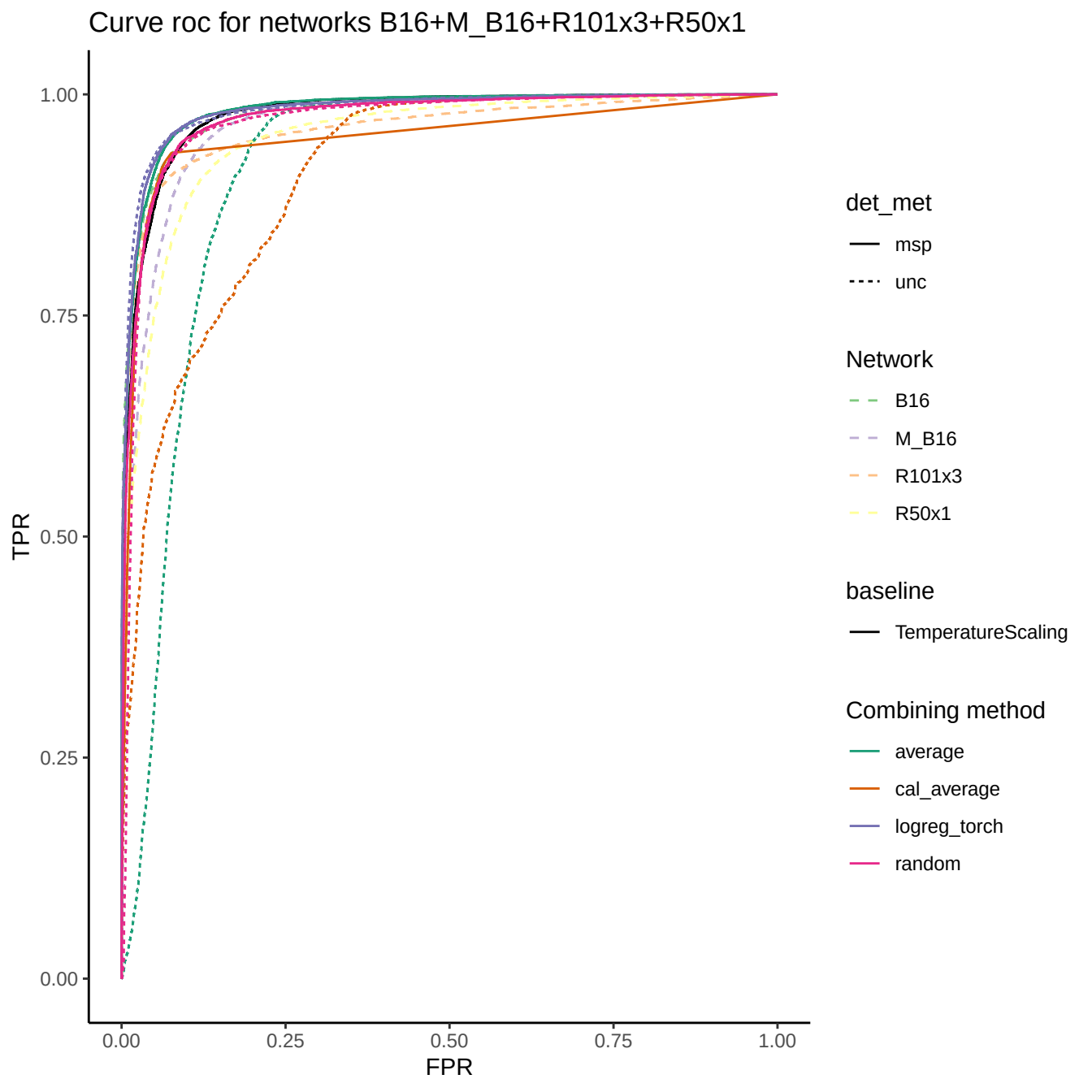
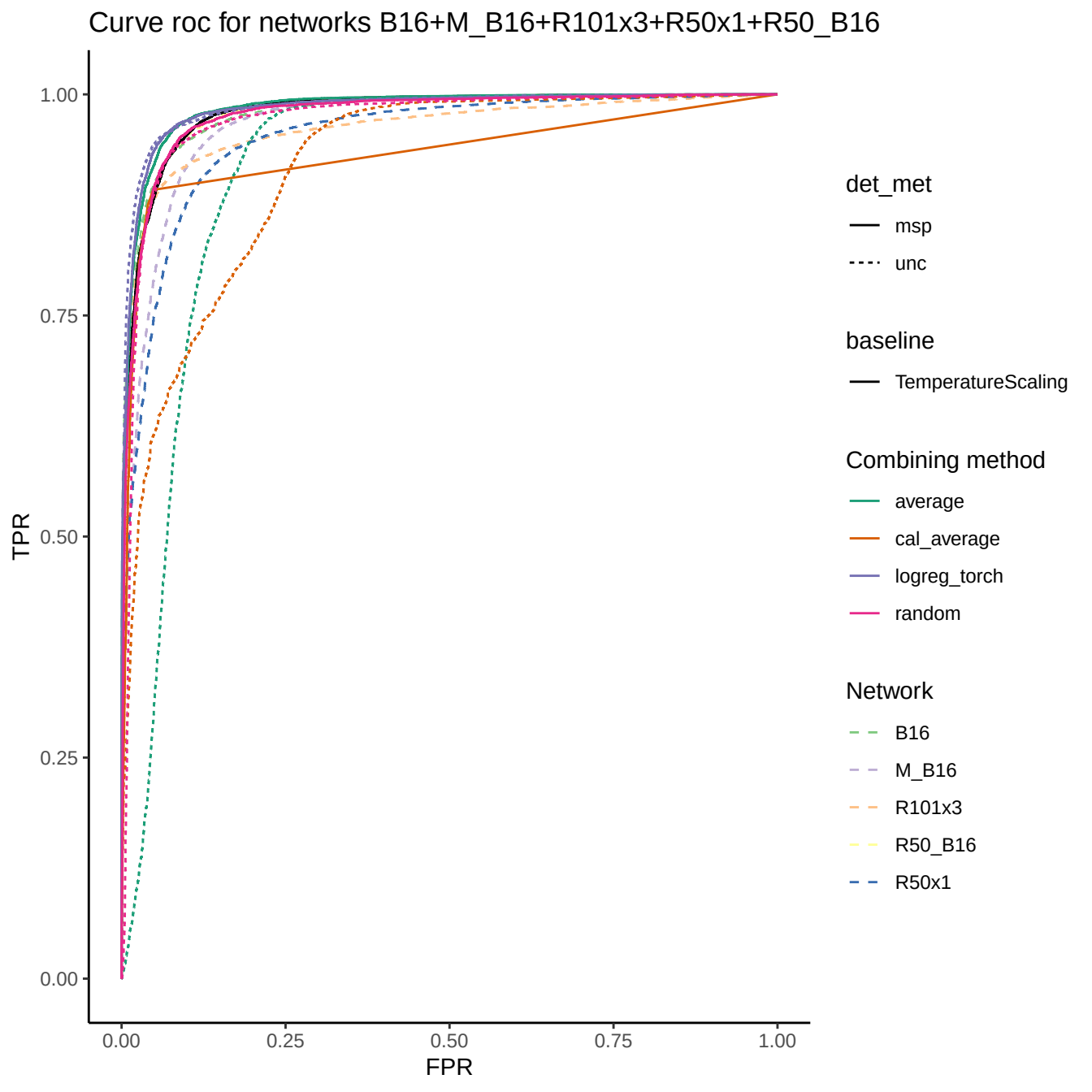
ROC and PRC curves for different OOD detection approaches.

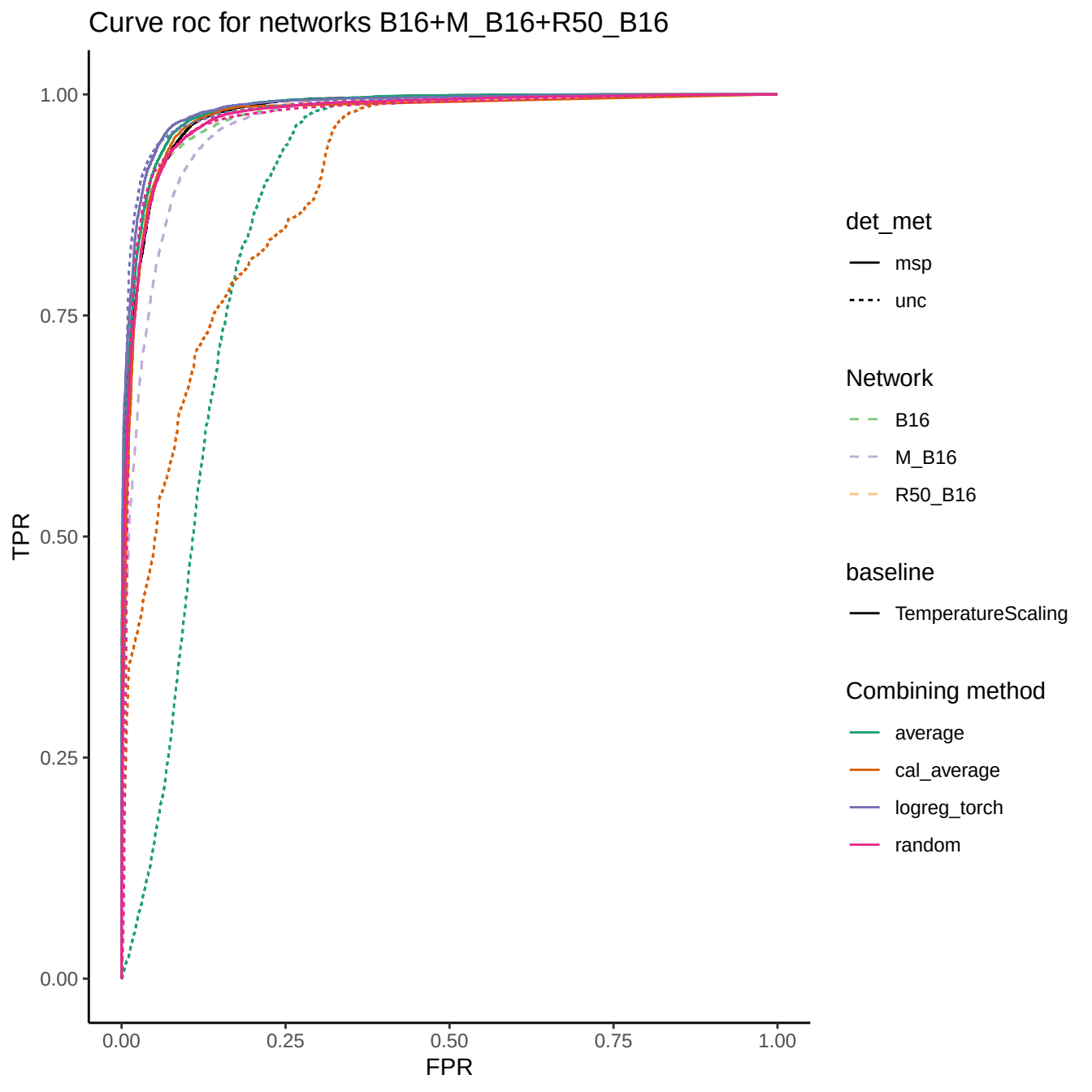

Curve roc for networks B16+M_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16

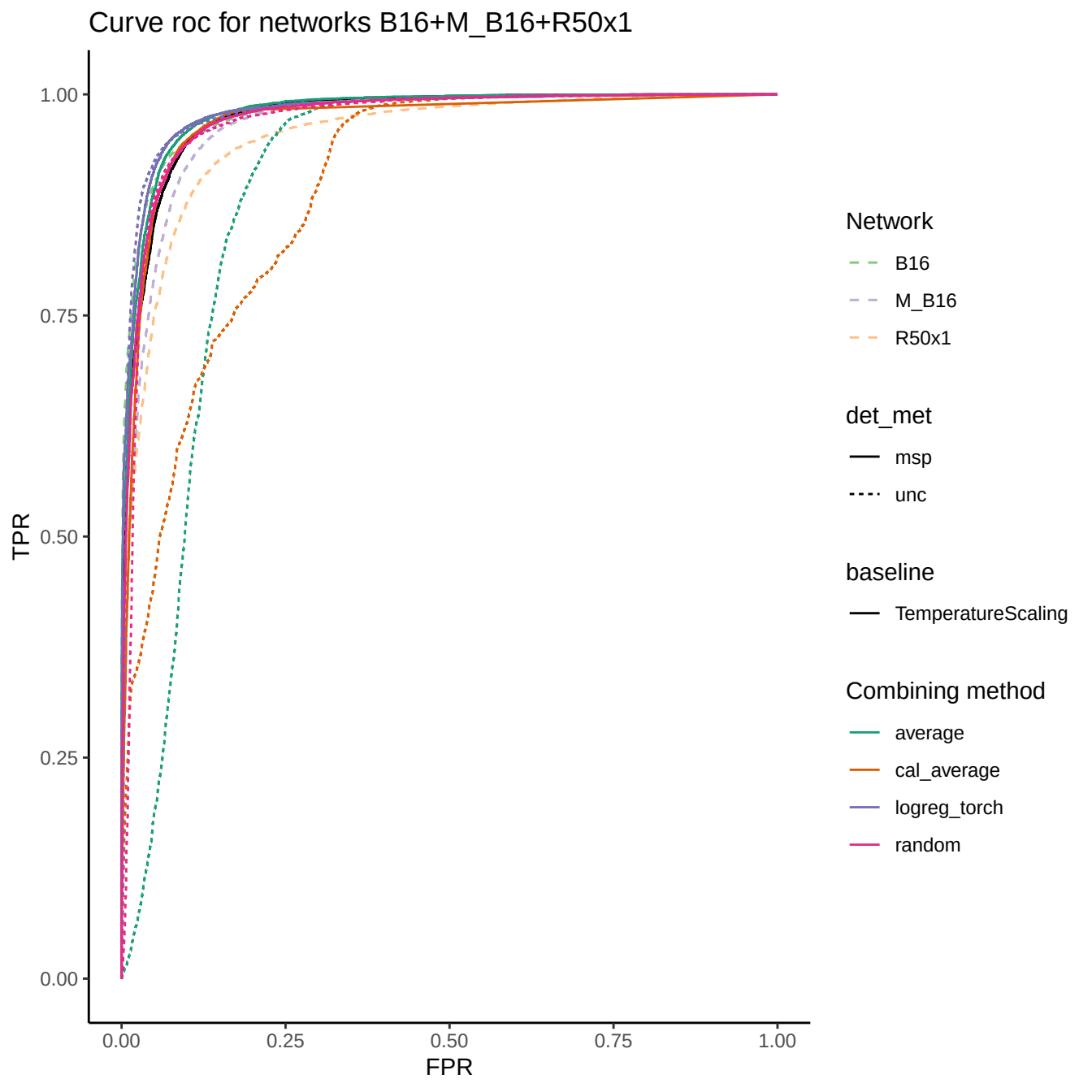

Curve roc for networks B16+M_B16+R101x3
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16
R101x3

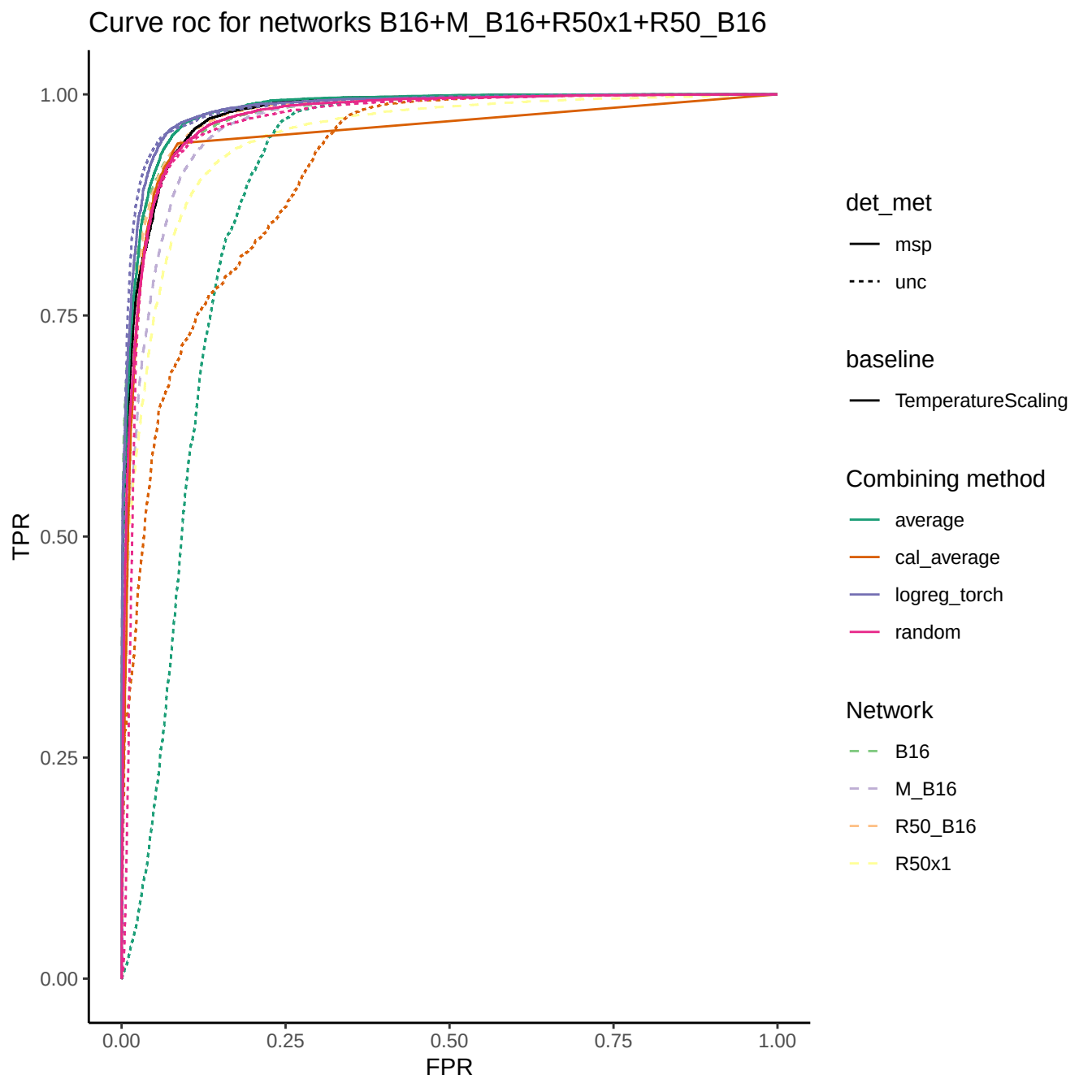

Curve roc for networks B16+M_B16+R101x3+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
B16
M_B16
R101x3
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

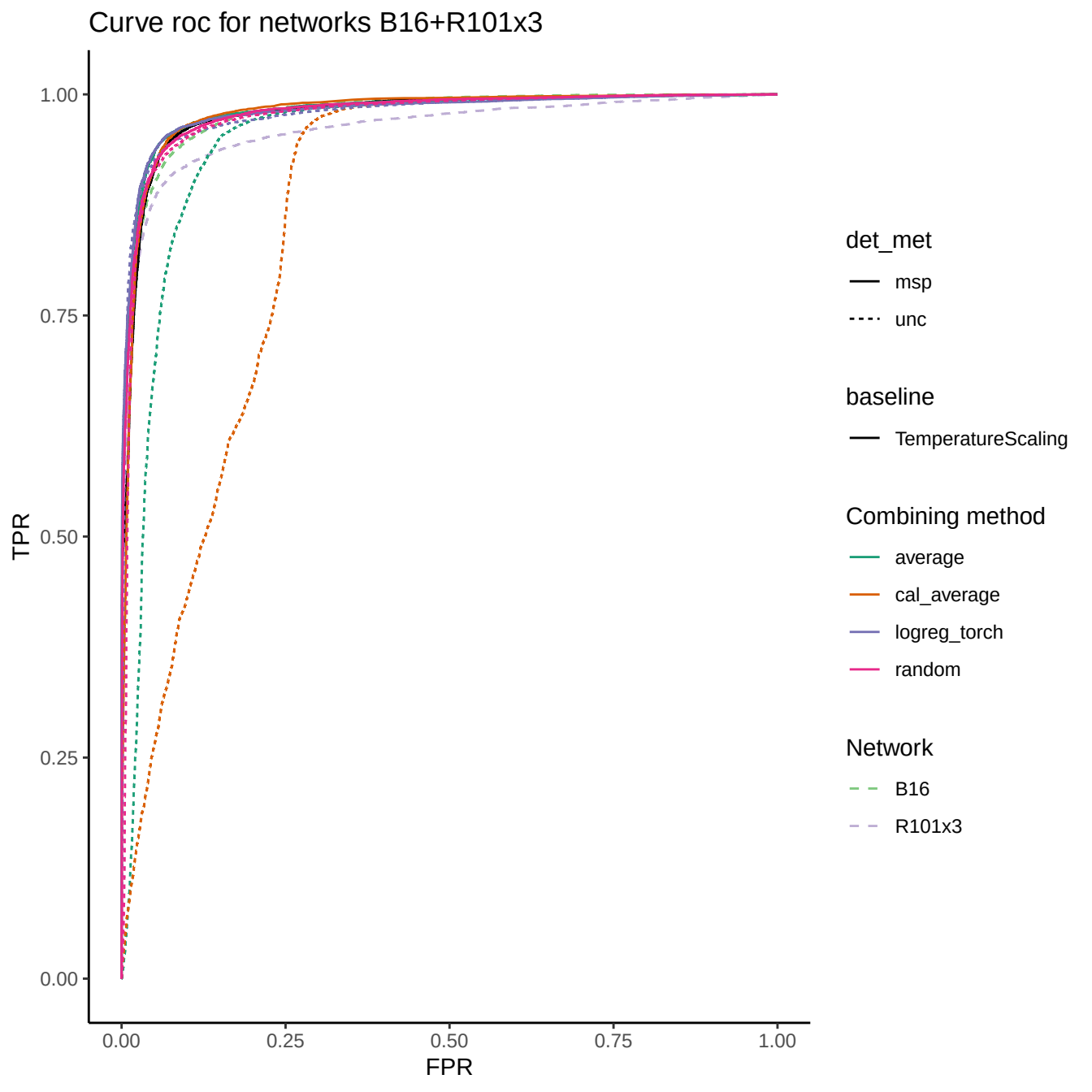

Curve roc for networks B16+M_B16+R101x3+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
B16
M_B16
R101x3
R50x1
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

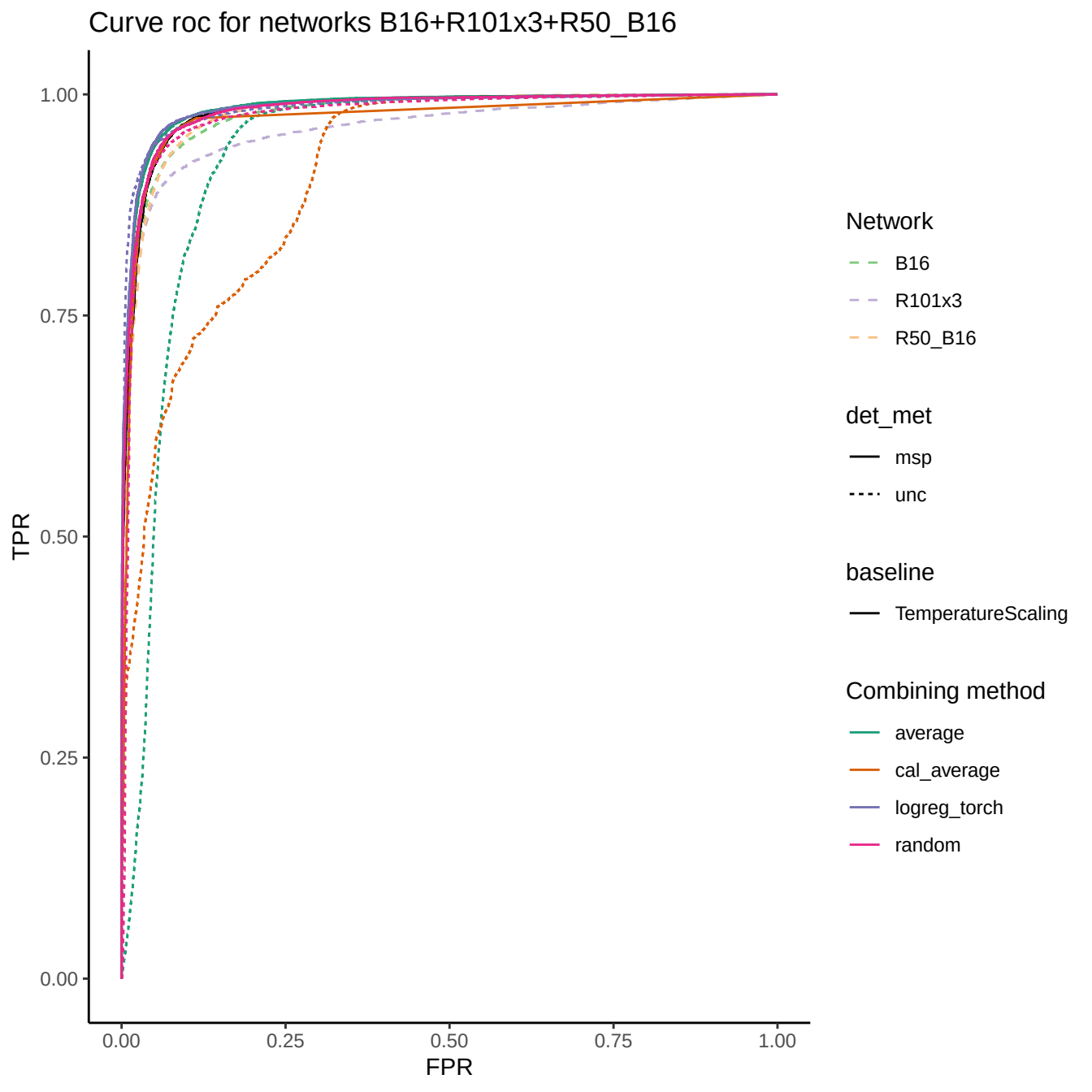

Curve roc for networks B16+M_B16+R101x3+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16
R101x3
R50_B16
R50x1

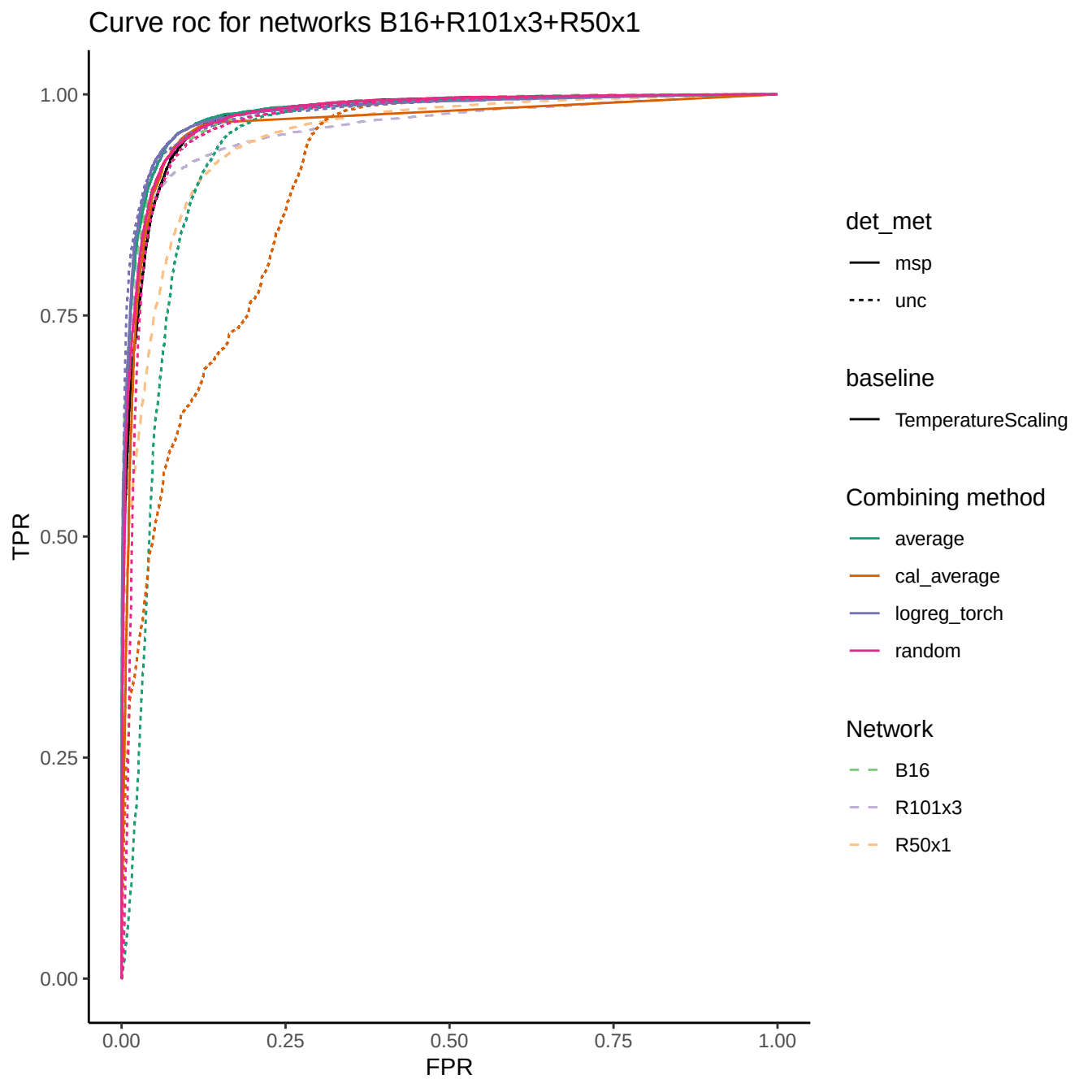

Curve roc for networks B16+M_B16+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
B16
M_B16
R50_B16
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

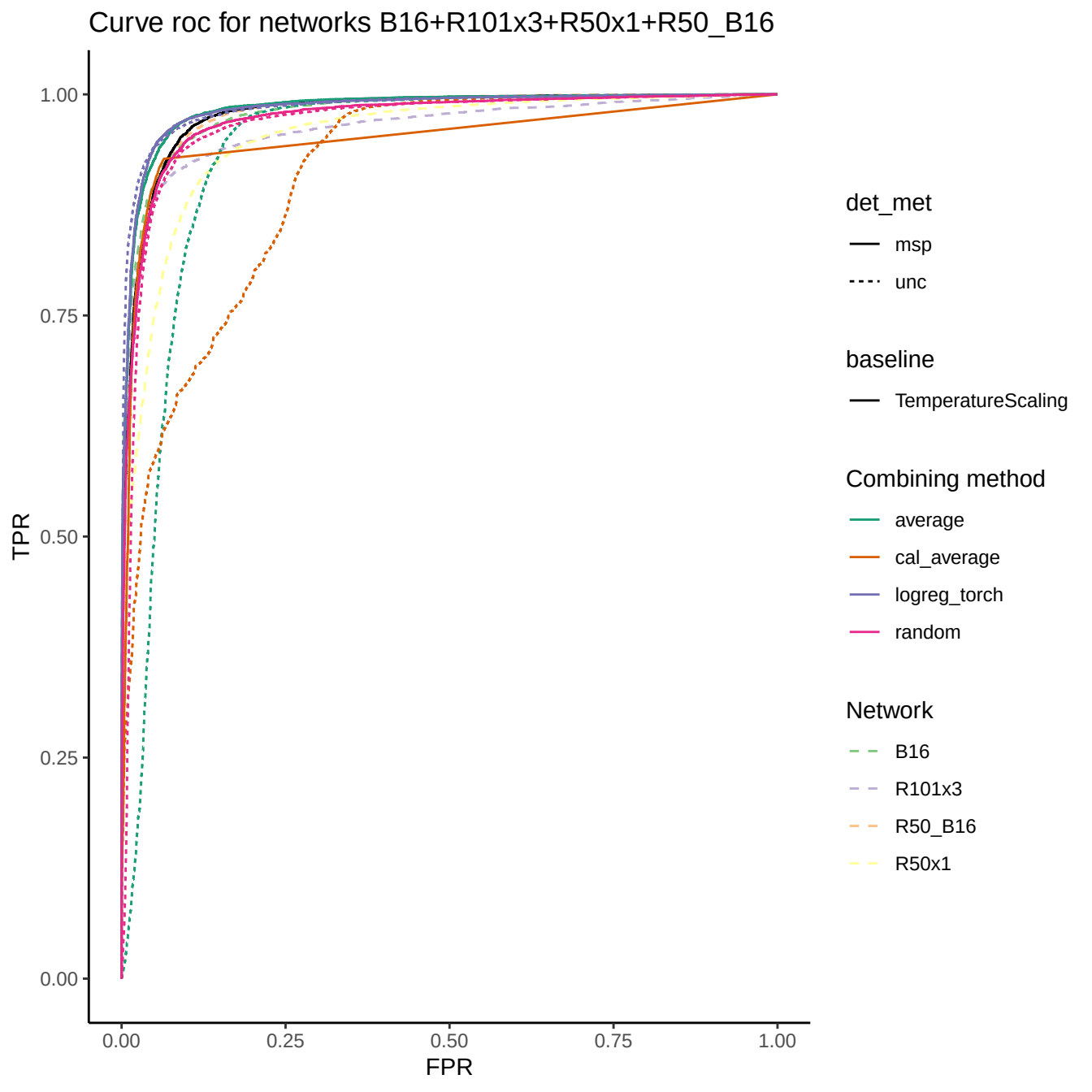

Curve roc for networks B16+M_B16+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
B16
M_B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

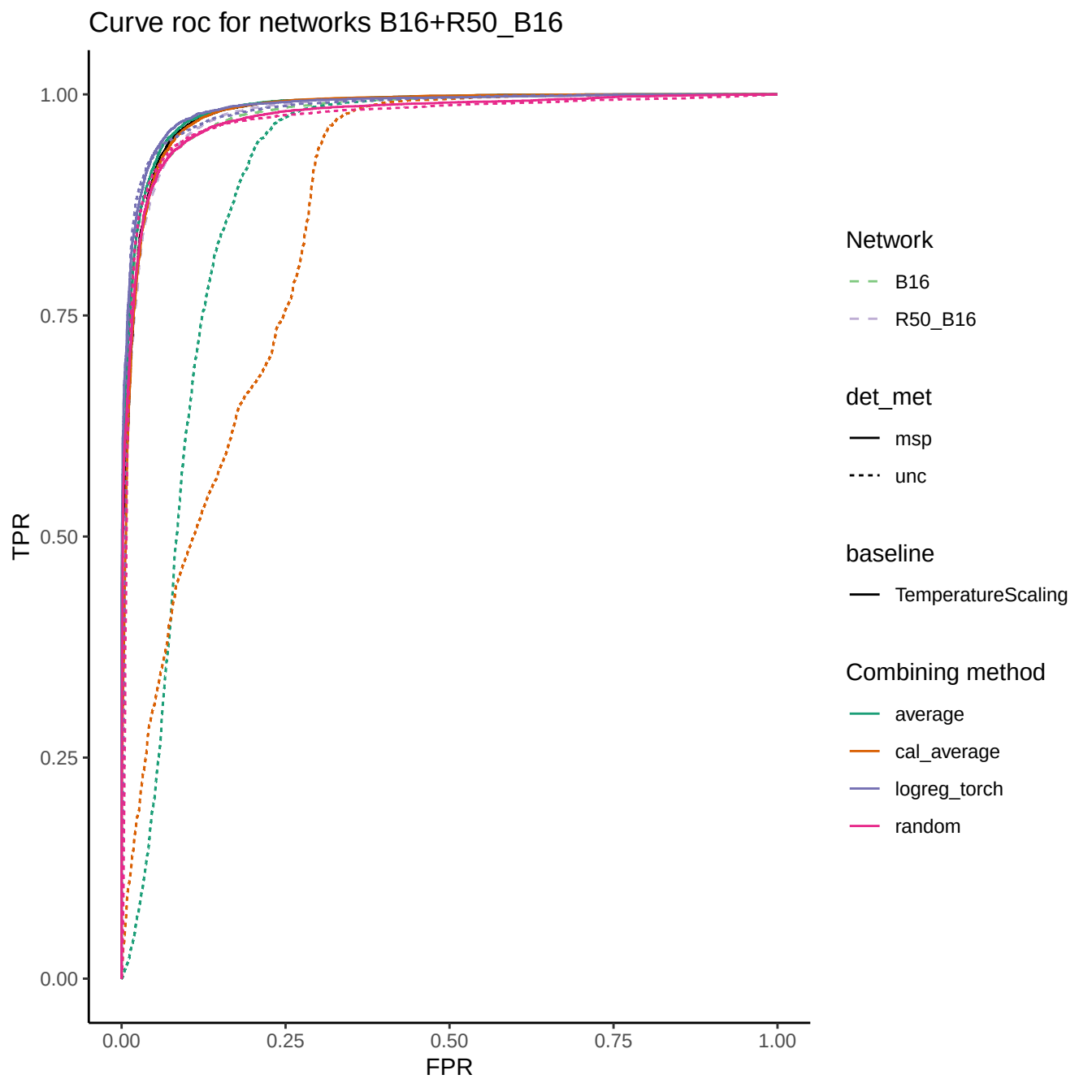

Curve roc for networks B16+M_B16+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16
R50_B16
R50x1

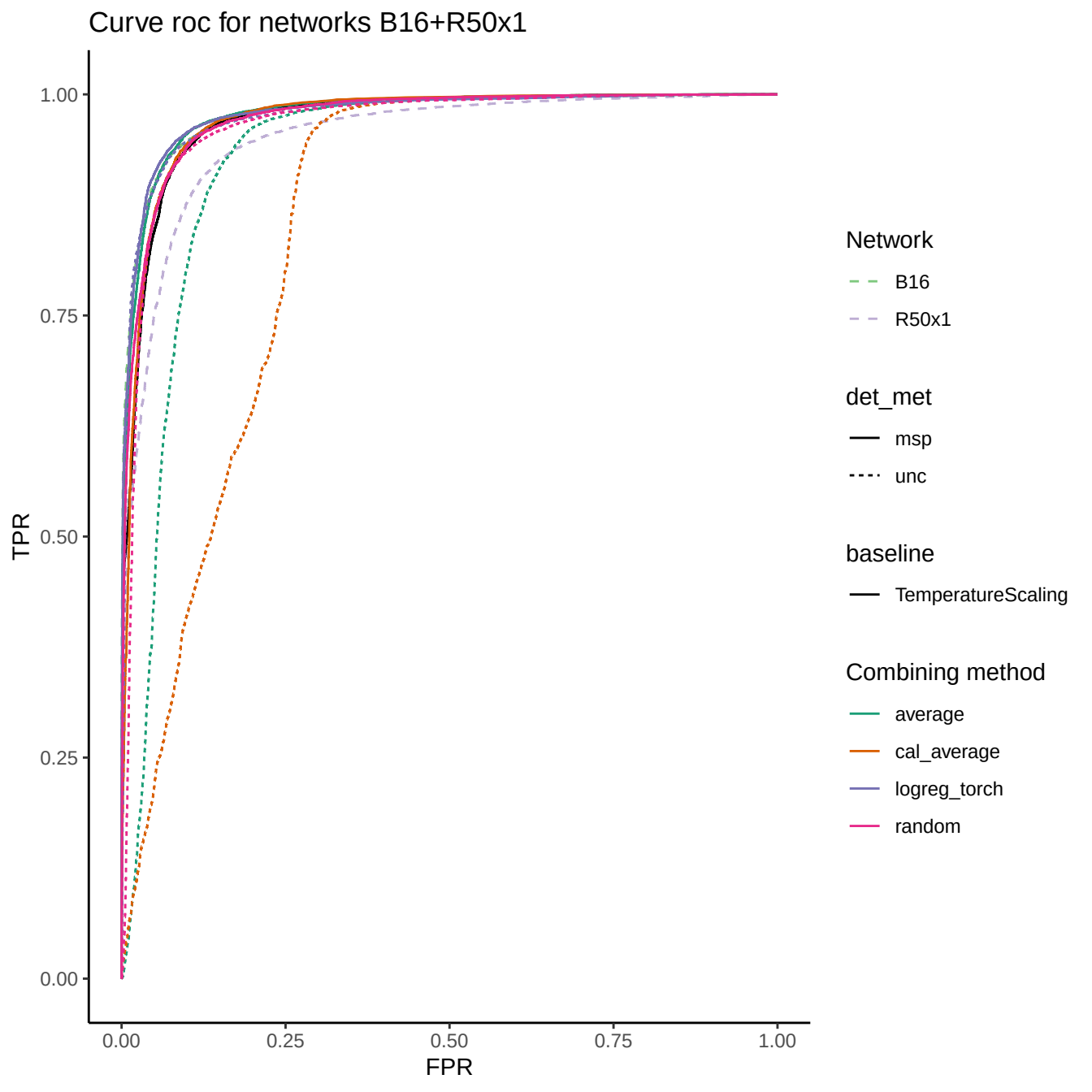

Curve roc for networks B16+R101x3
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
R101x3

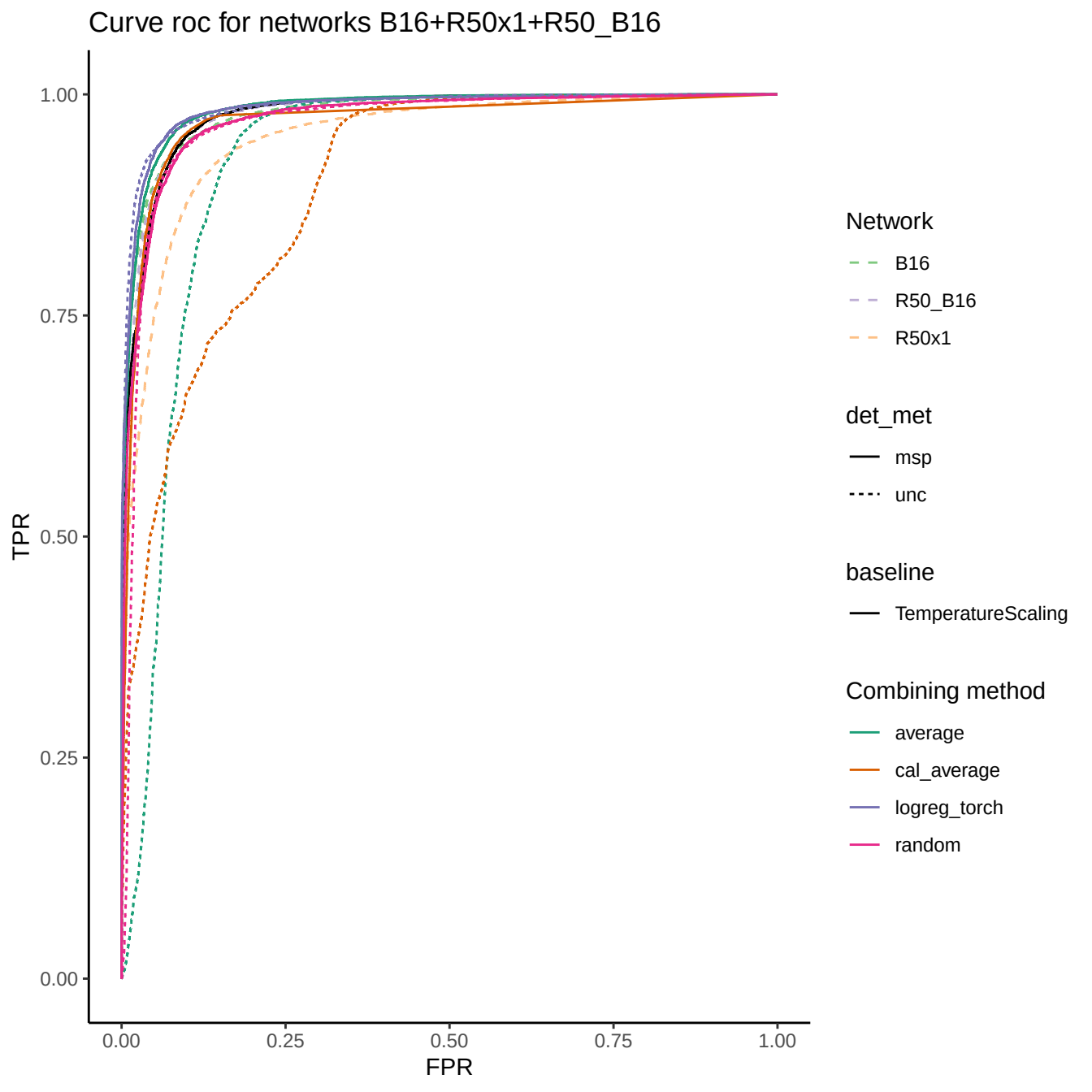

Curve roc for networks B16+R101x3+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
B16
R101x3
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

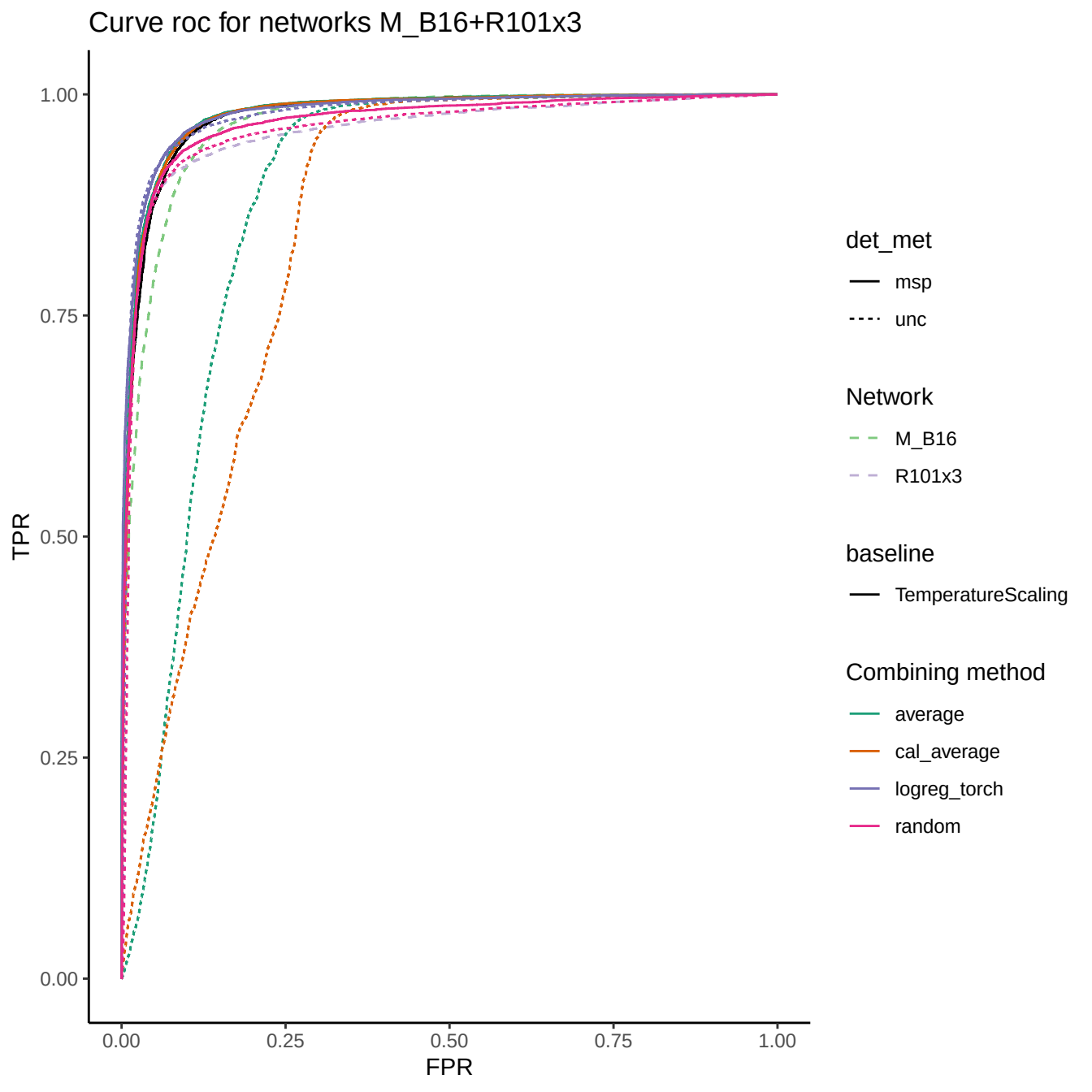

Curve roc for networks B16+R101x3+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
R101x3
R50x1

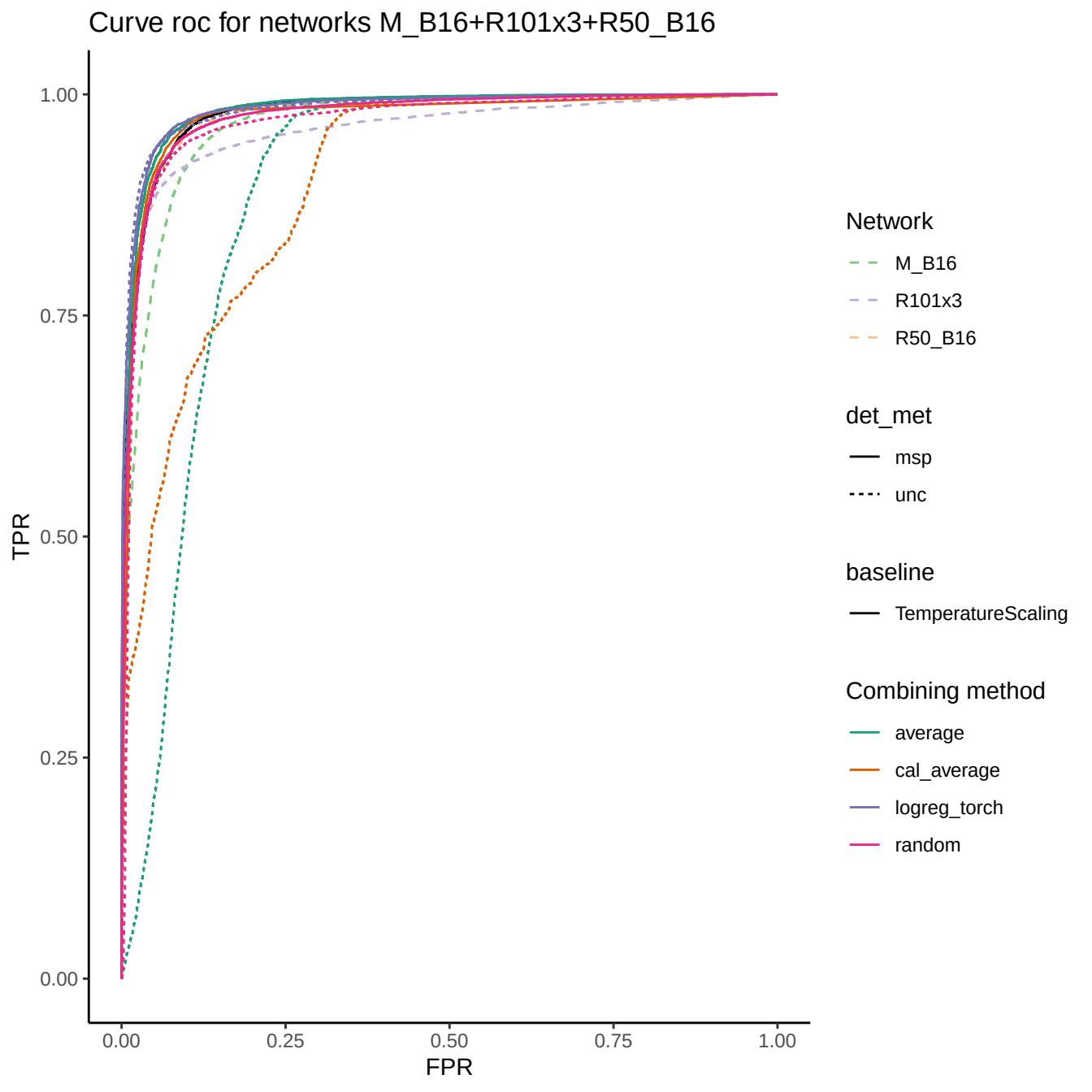

Curve roc for networks B16+R101x3+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
R101x3
R50_B16
R50x1

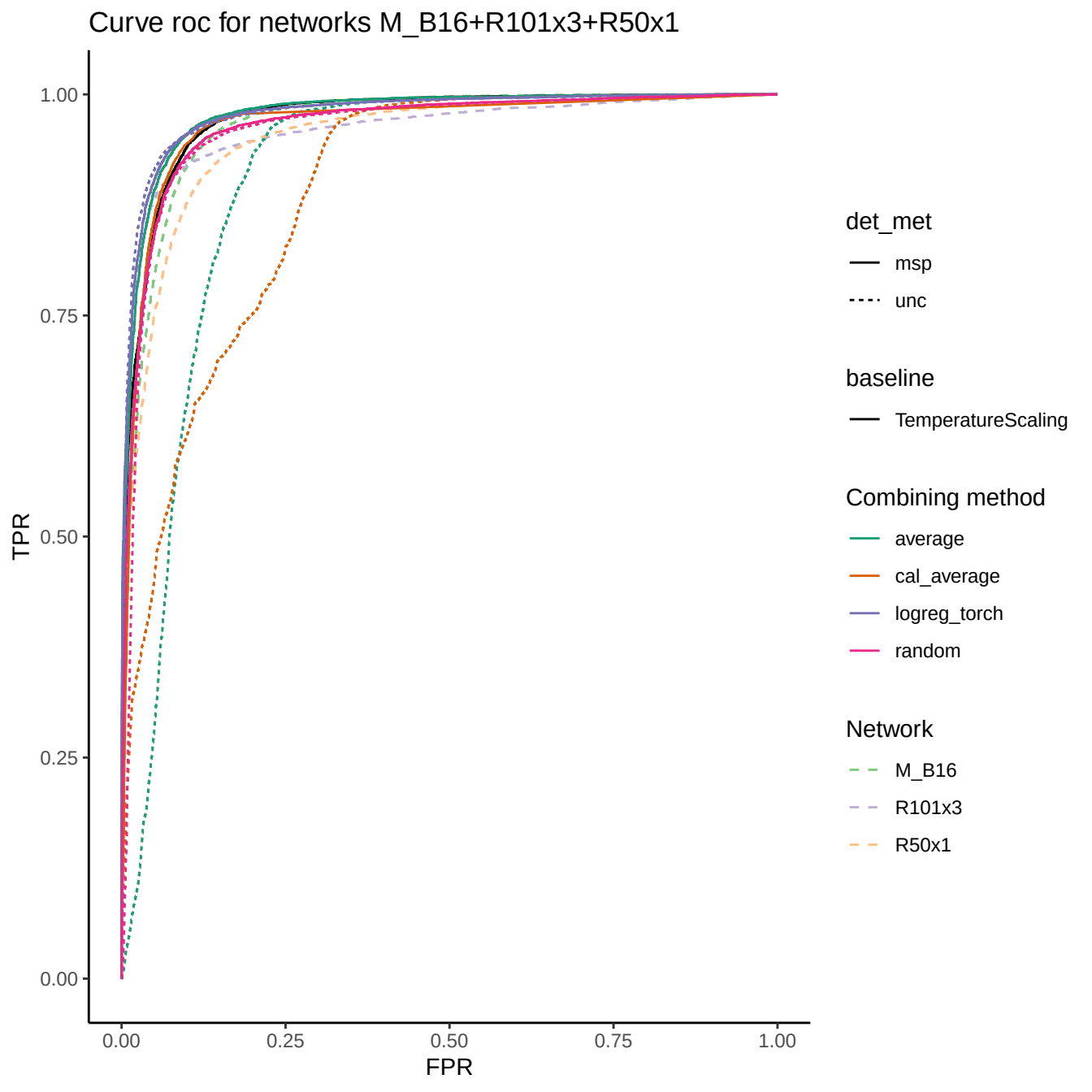

Curve roc for networks B16+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
B16
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

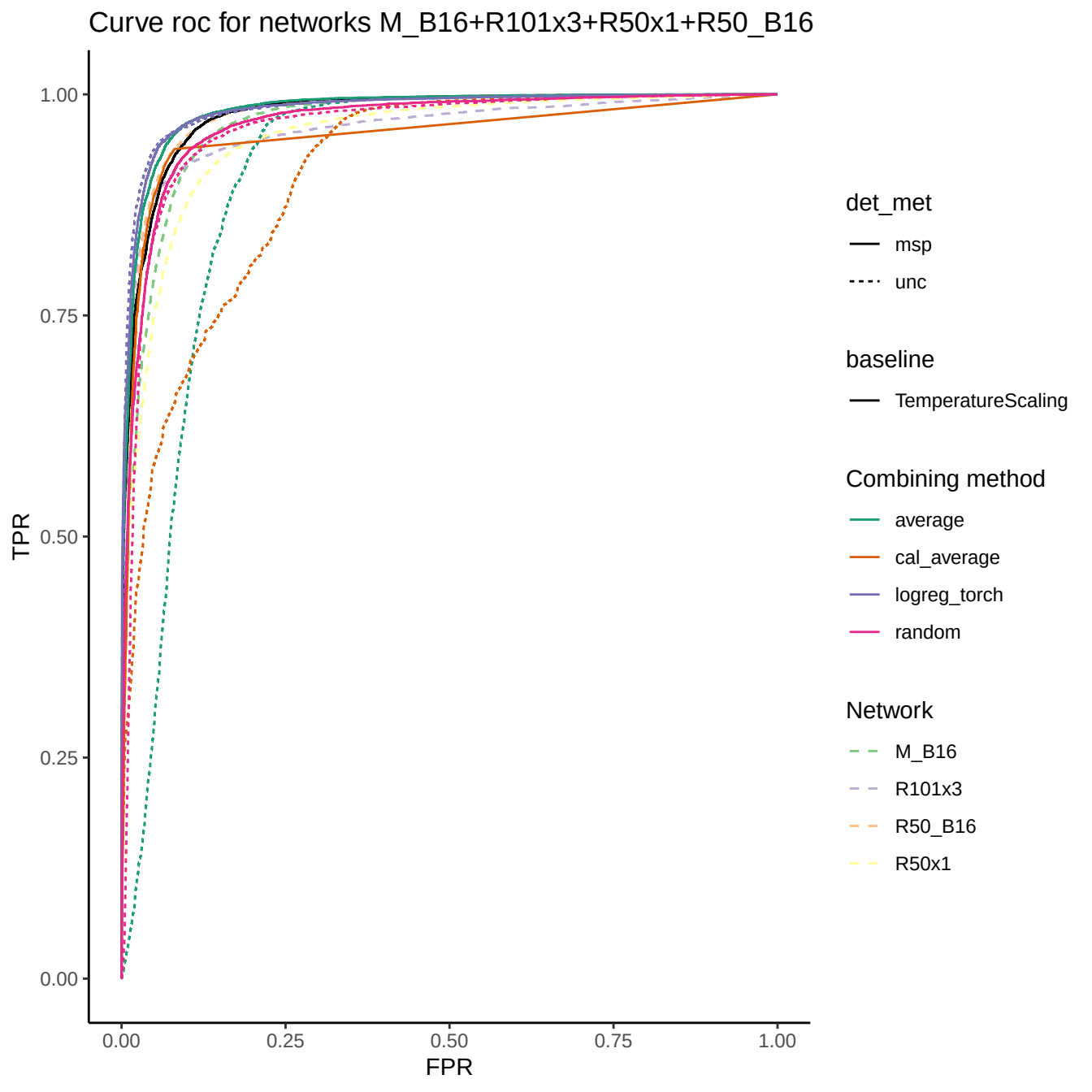

Curve roc for networks B16+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

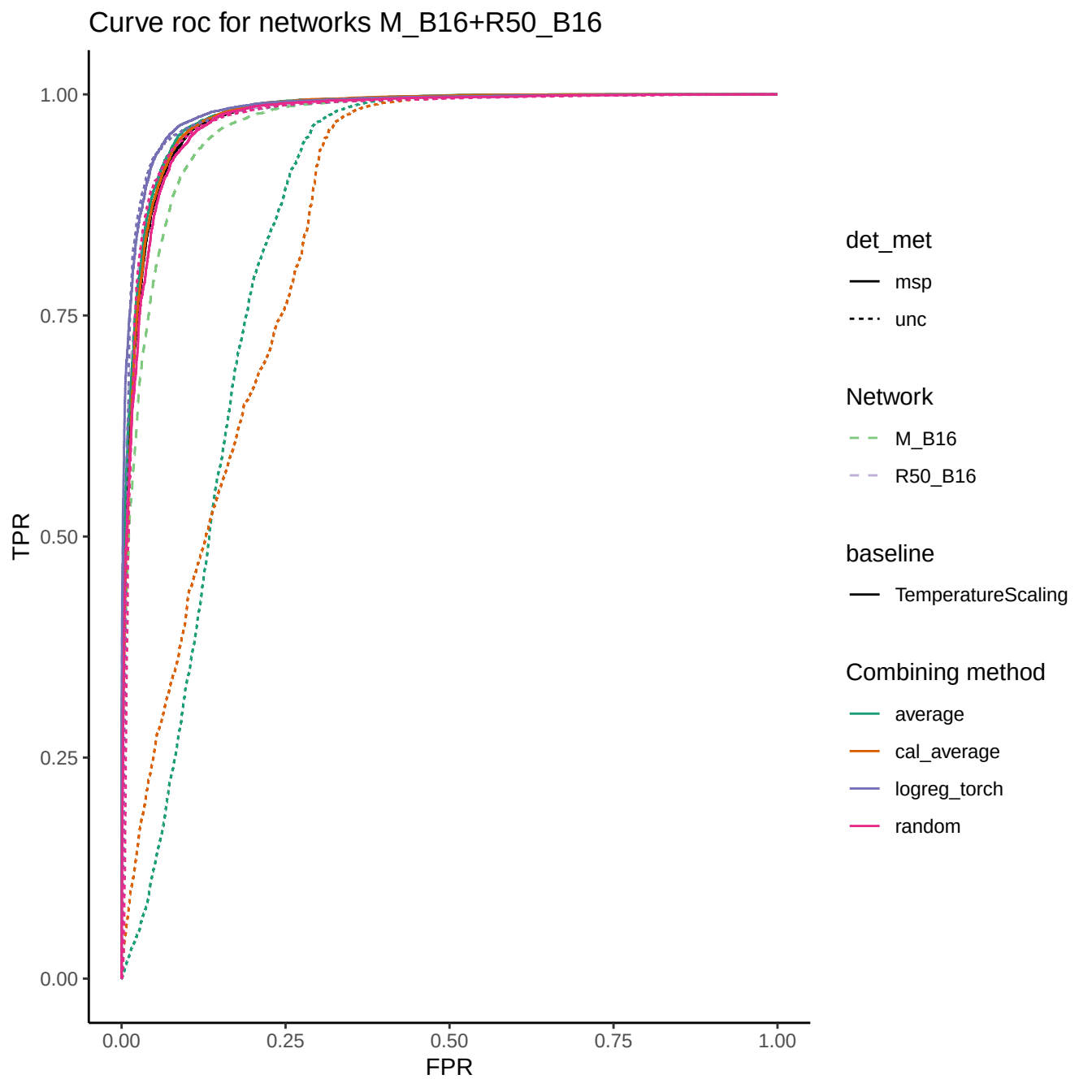

Curve roc for networks B16+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
B16
R50_B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

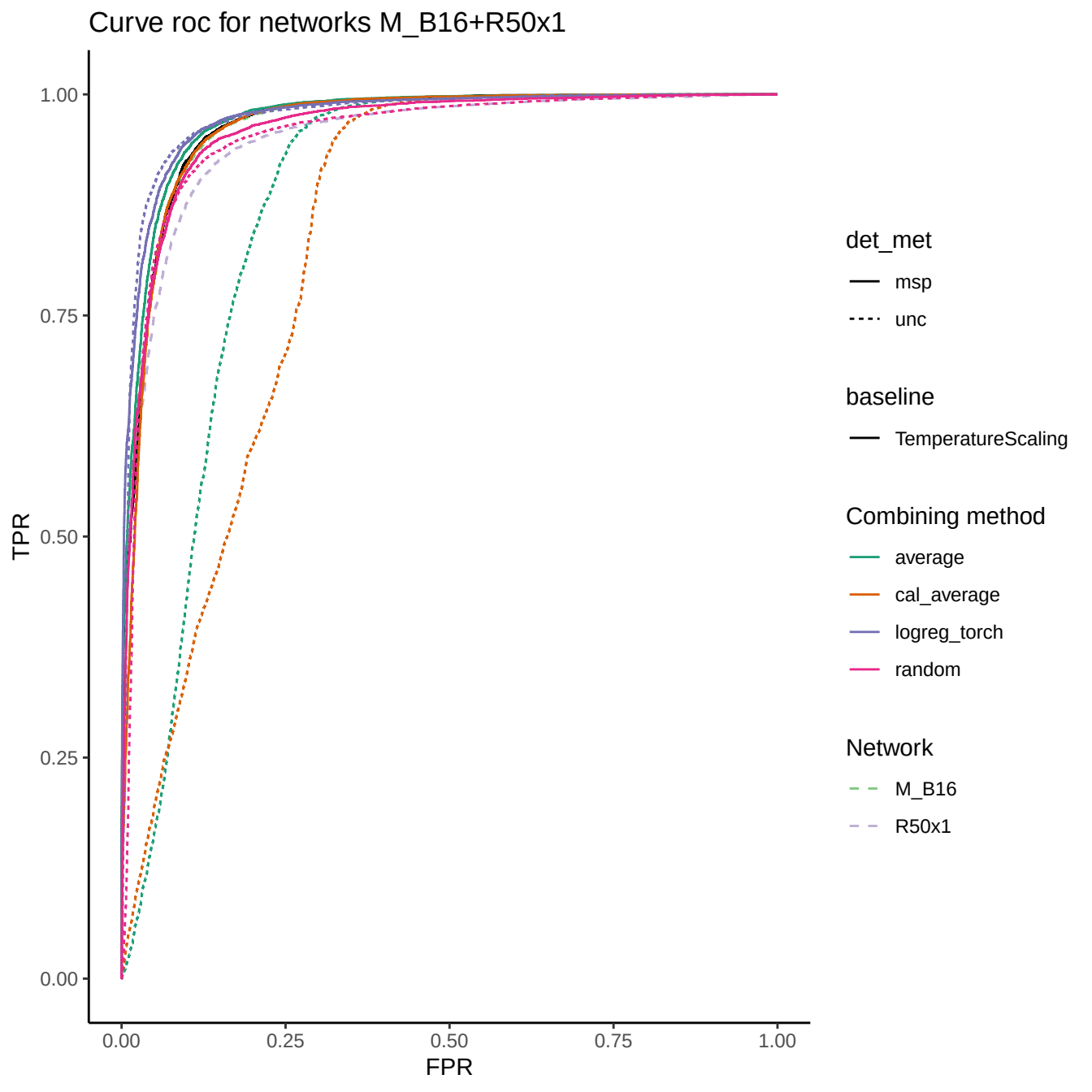

Curve roc for networks M_B16+R101x3
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
M_B16
R101x3
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

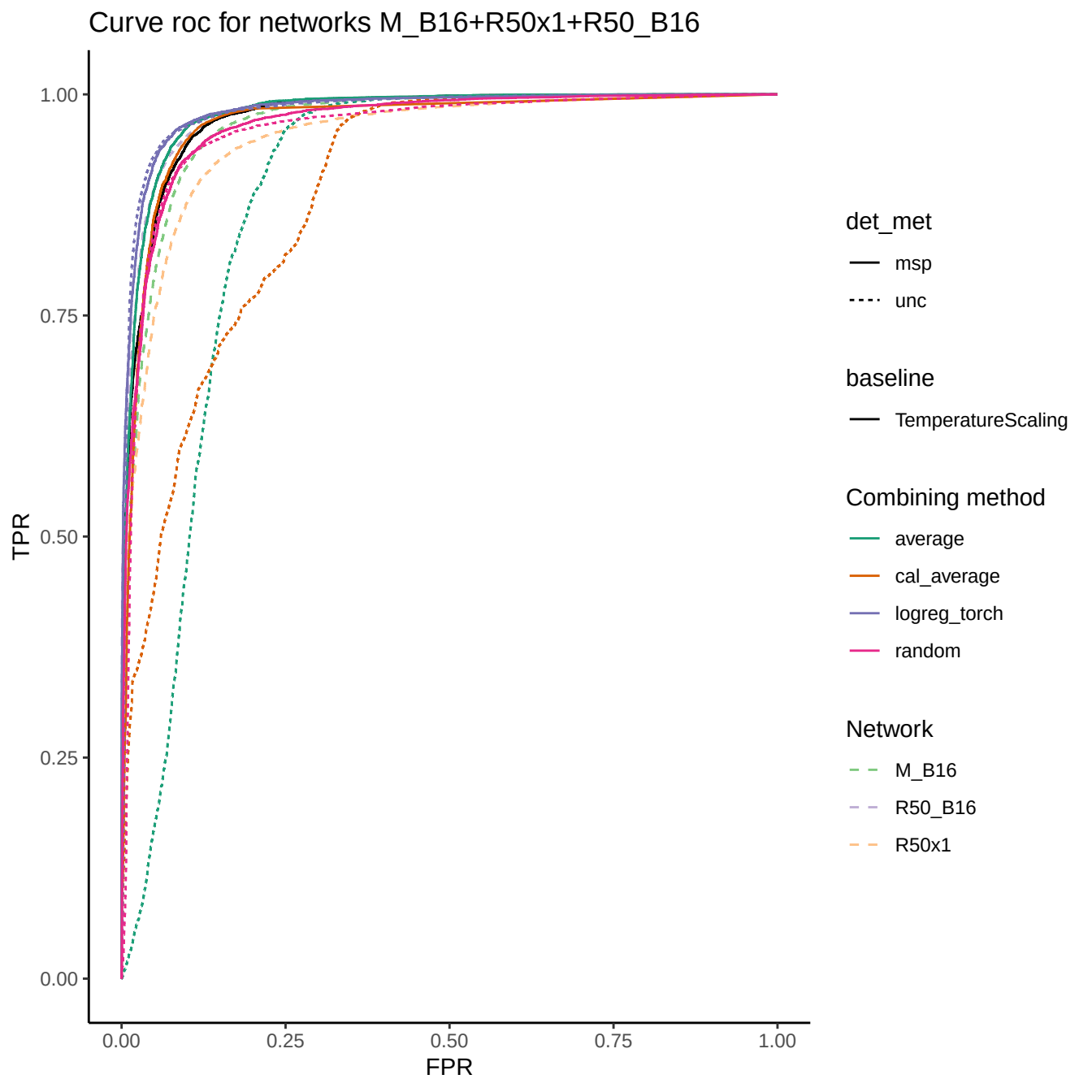

Curve roc for networks M_B16+R101x3+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
M_B16
R101x3
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

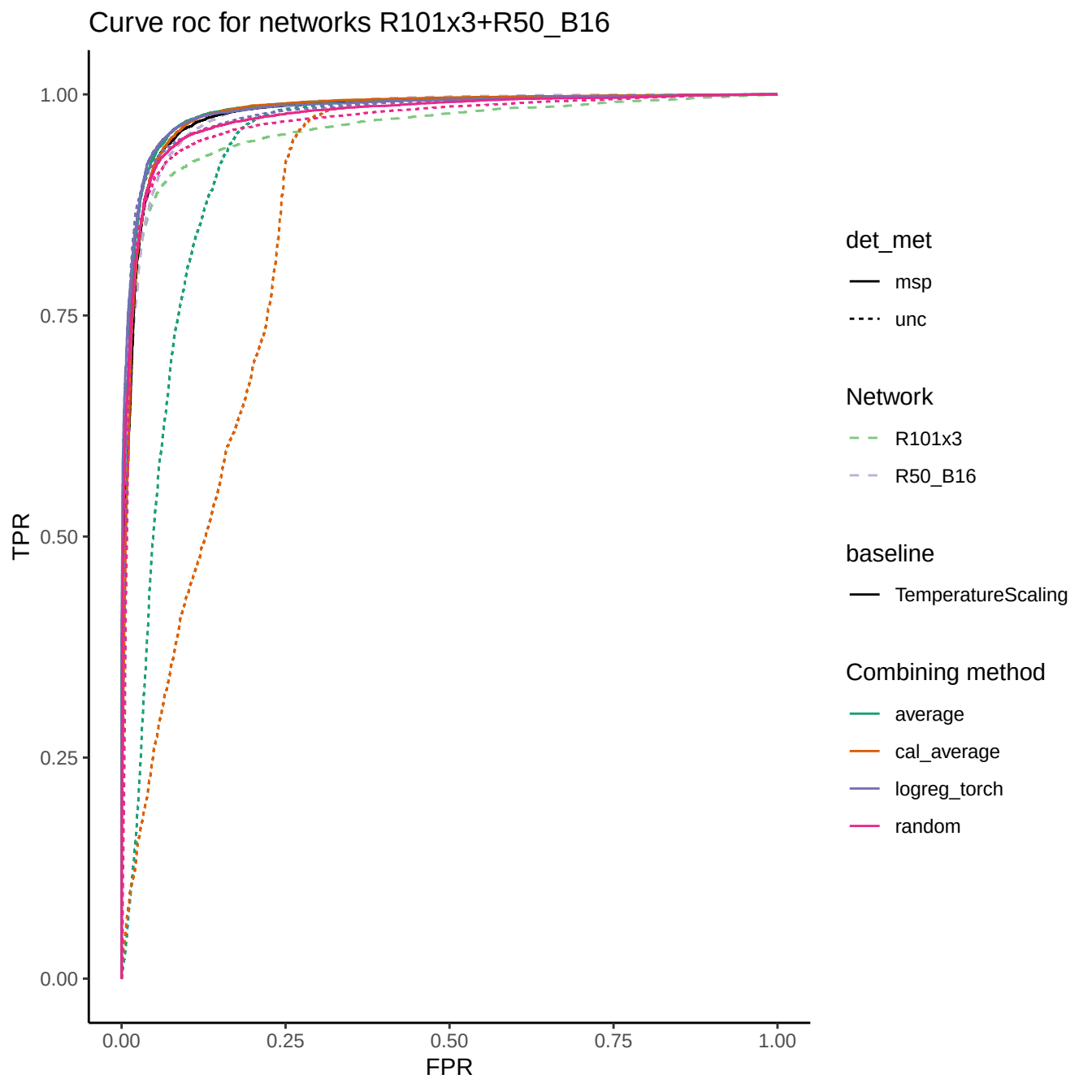

Curve roc for networks M_B16+R101x3+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R101x3
R50x1

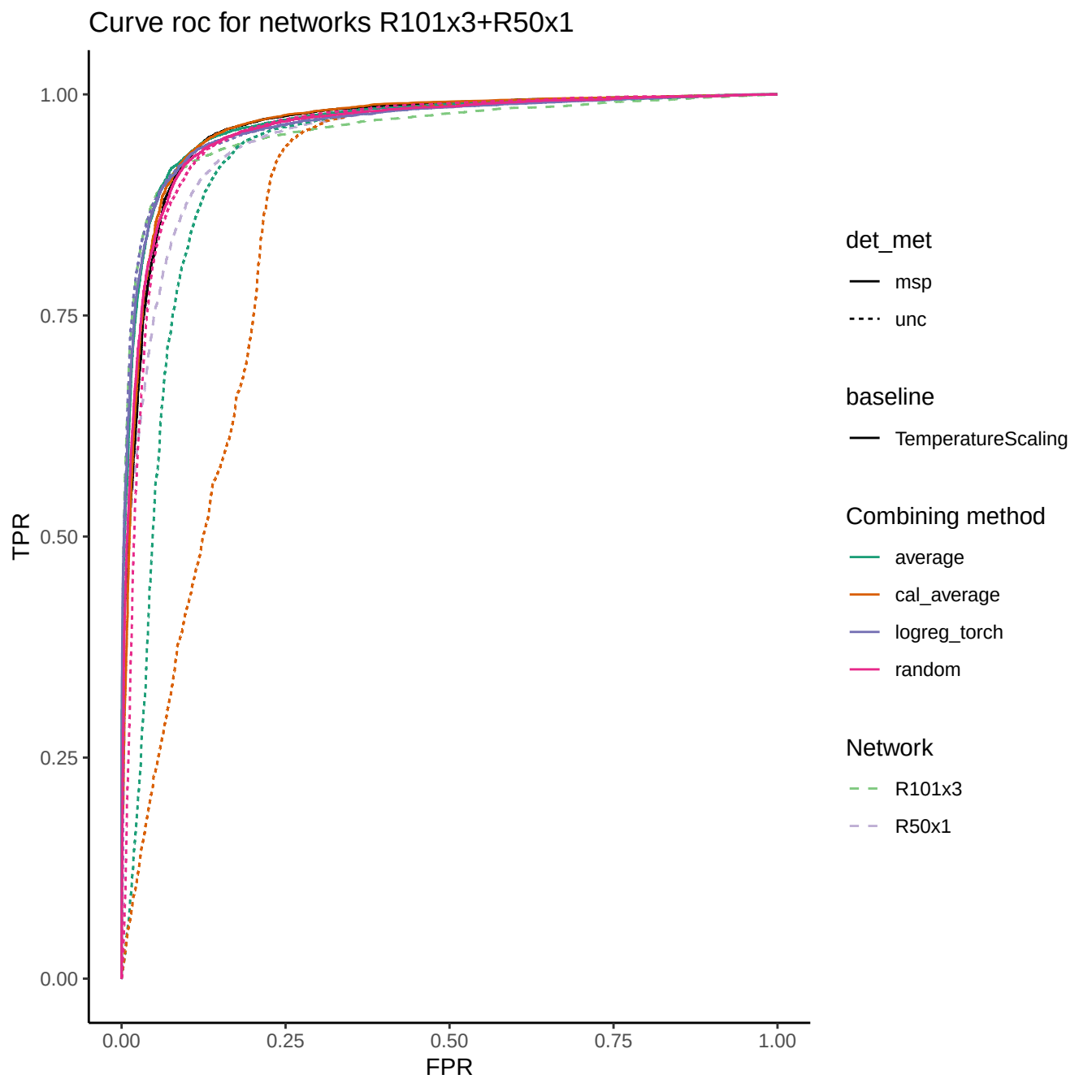

Curve roc for networks M_B16+R101x3+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R101x3
R50_B16
R50x1

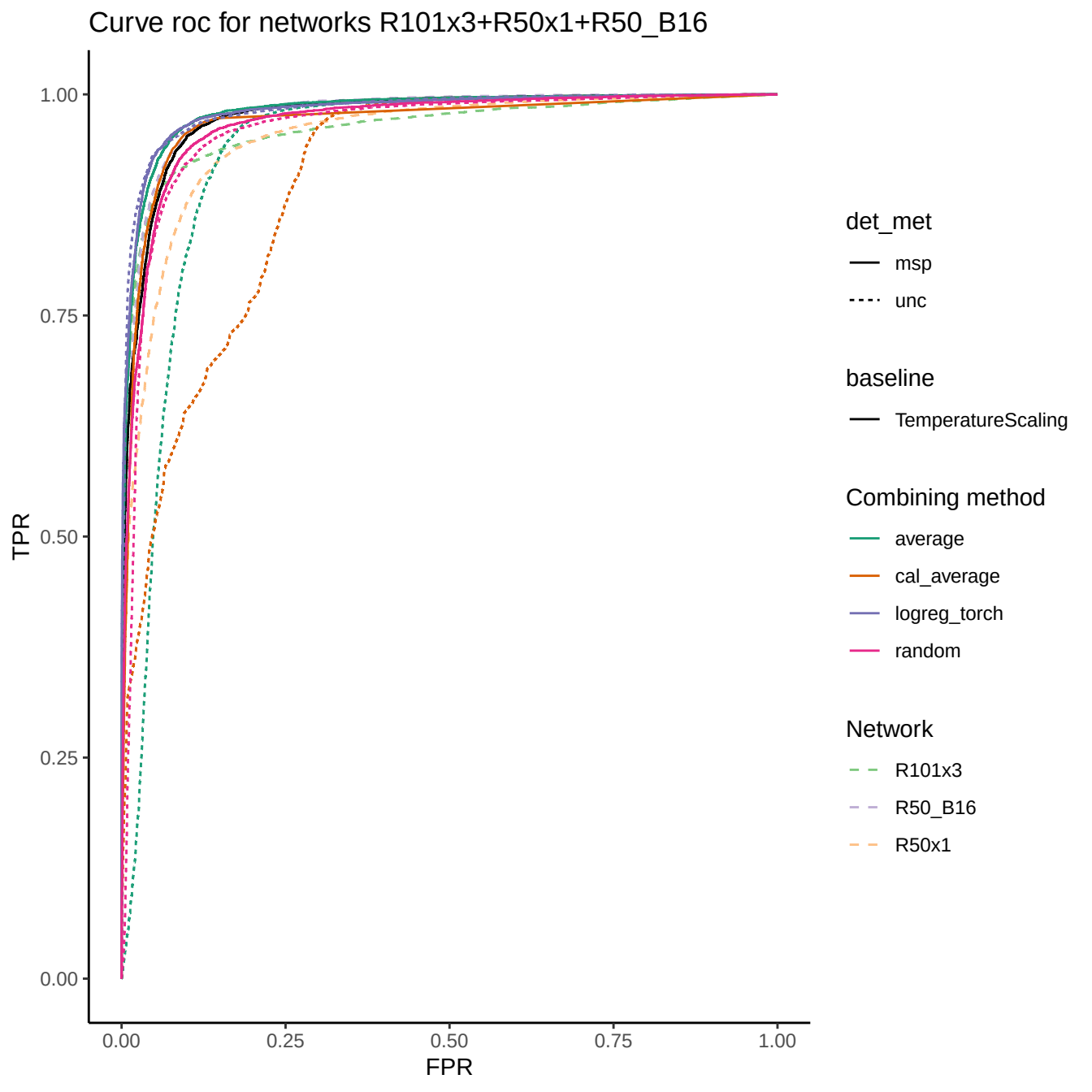

Curve roc for networks M_B16+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
M_B16
R50_B16
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

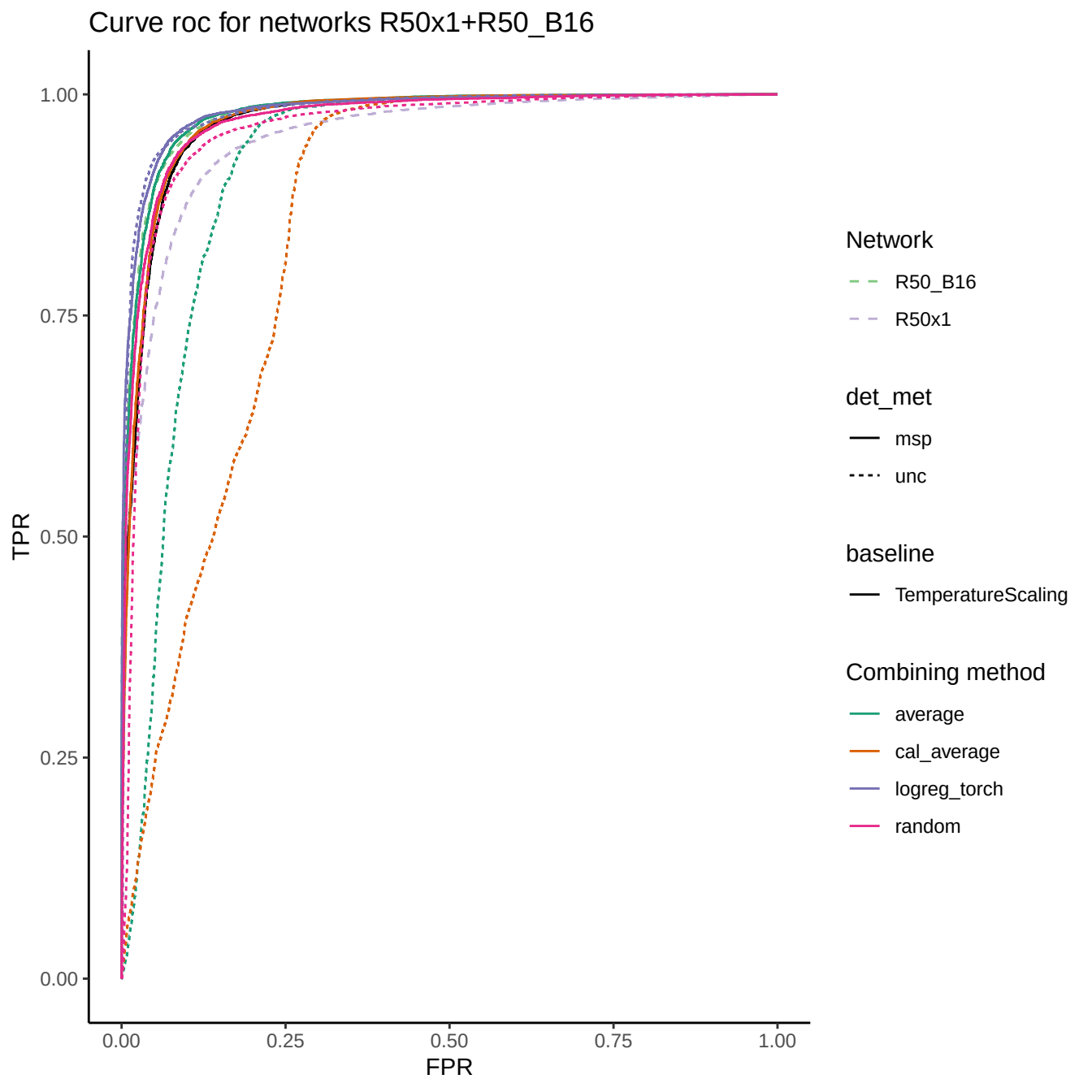

Curve roc for networks M_B16+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R50x1

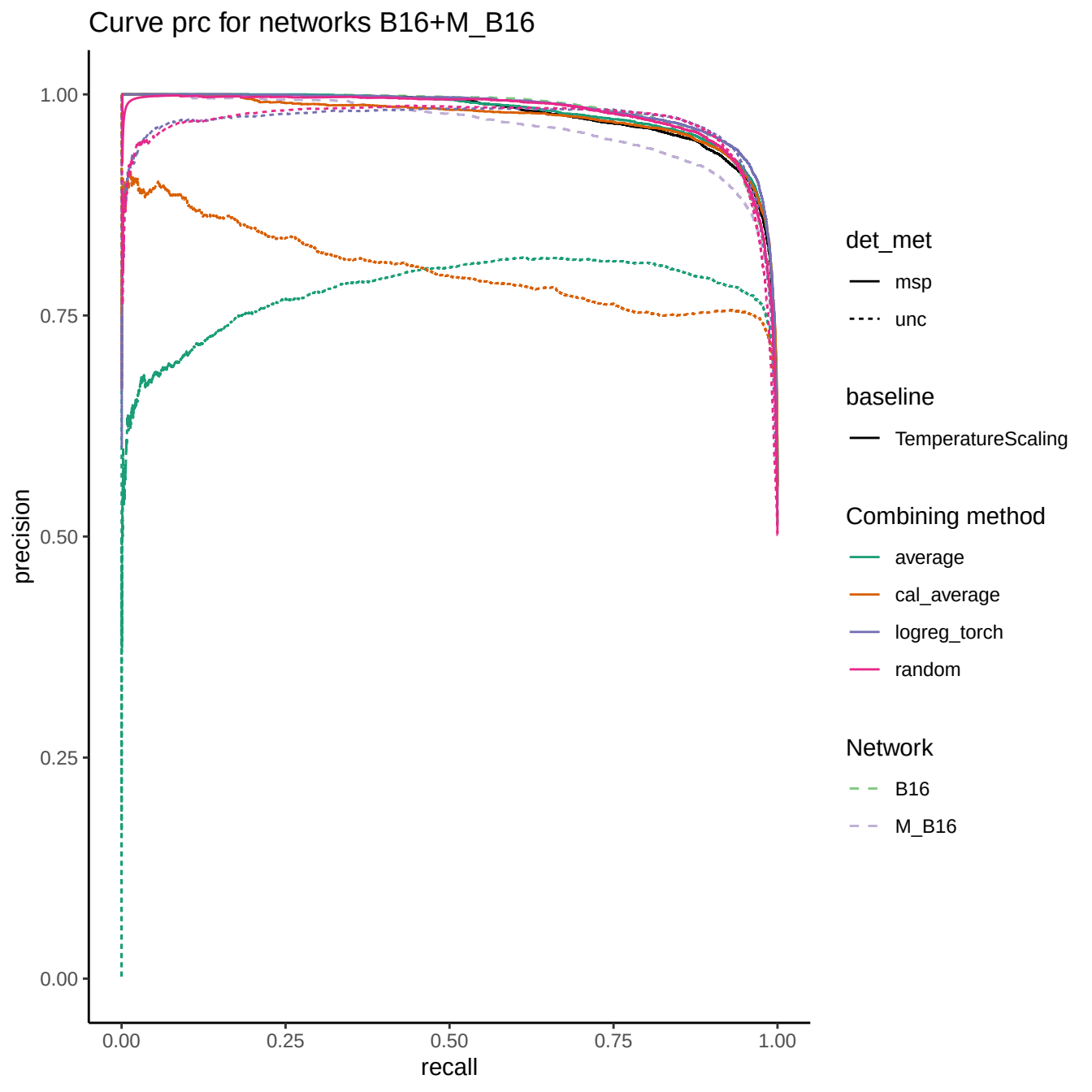

Curve roc for networks M_B16+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R50_B16
R50x1

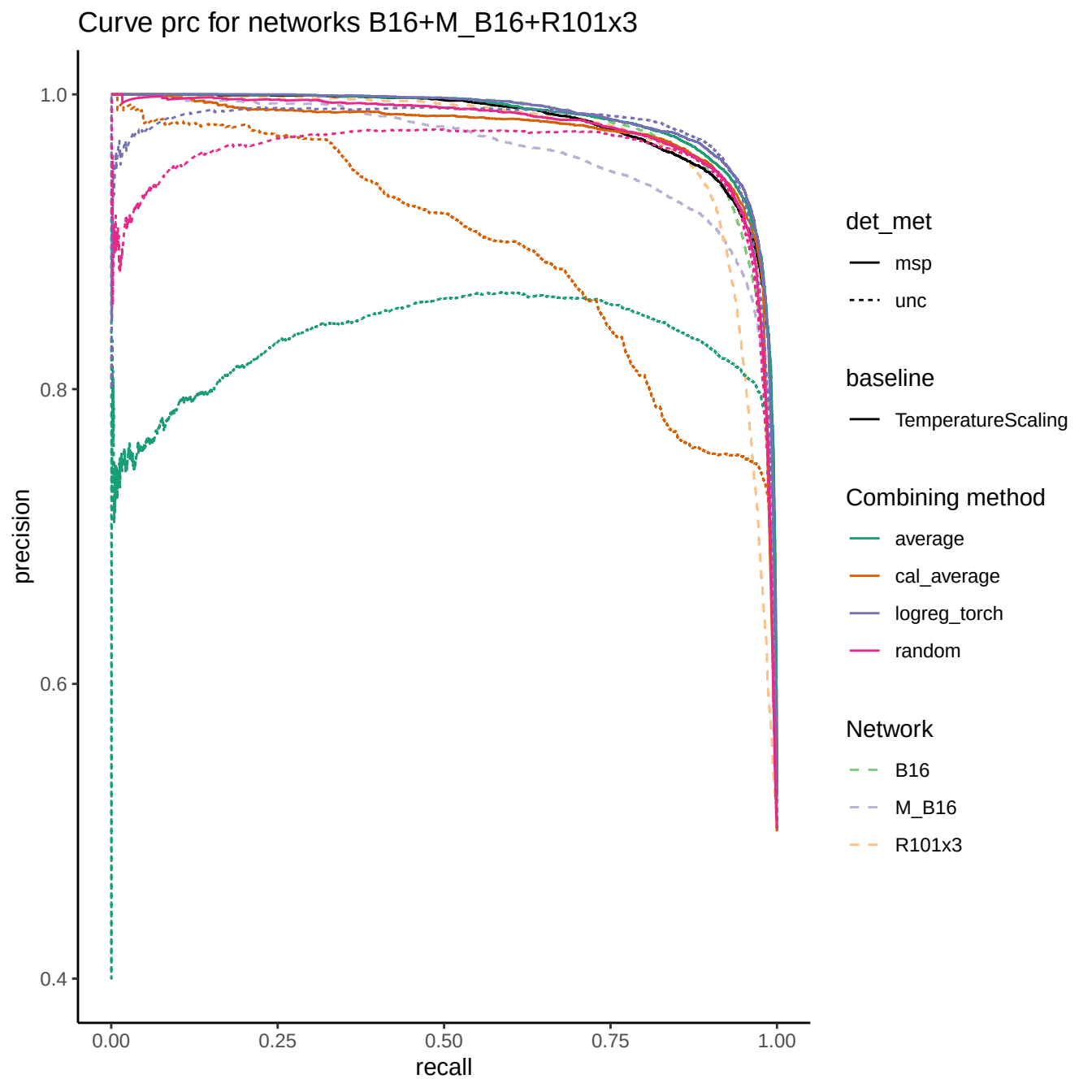

Curve roc for networks R101x3+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
R101x3
R50_B16
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

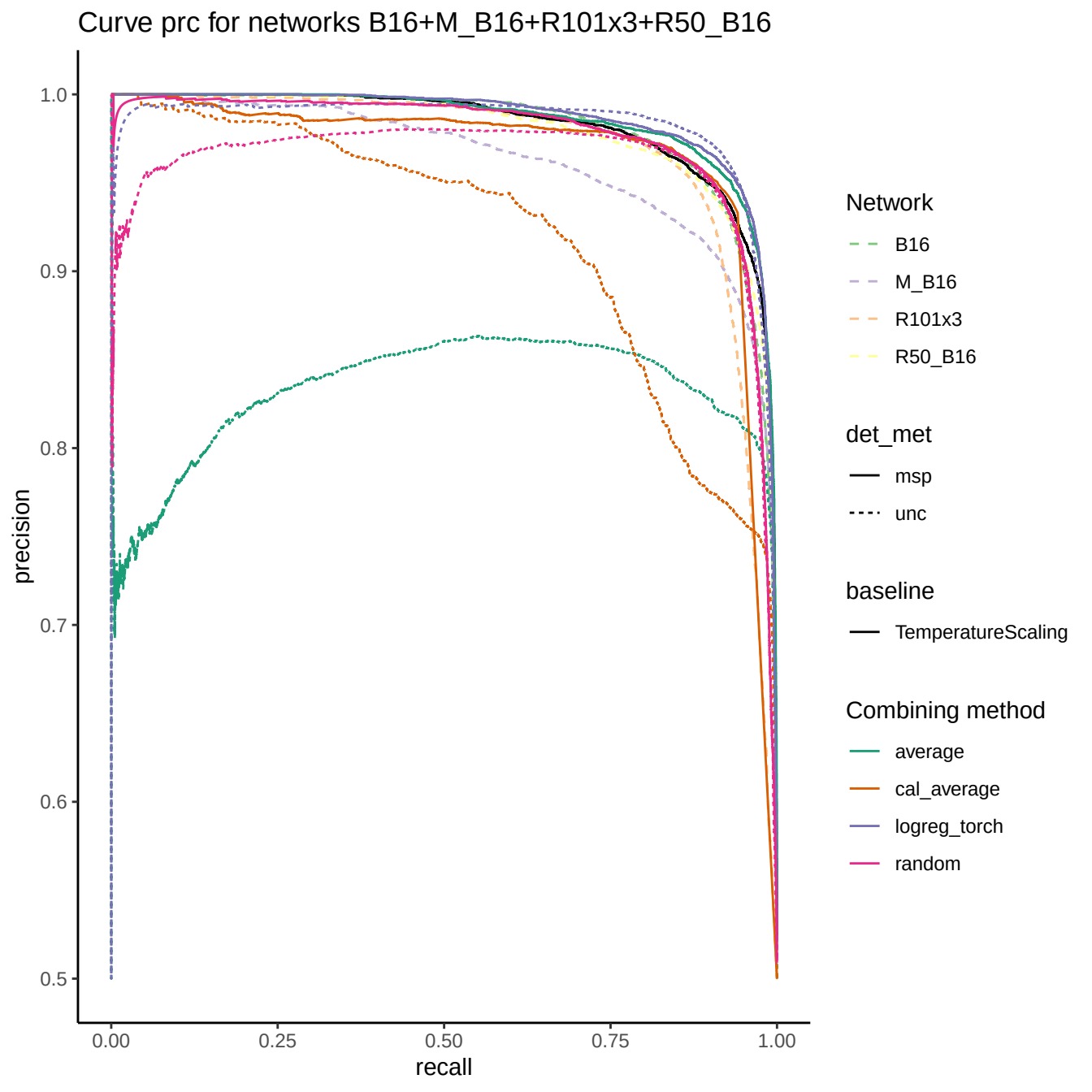

Curve roc for networks R101x3+R50x1
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
R101x3
R50x1

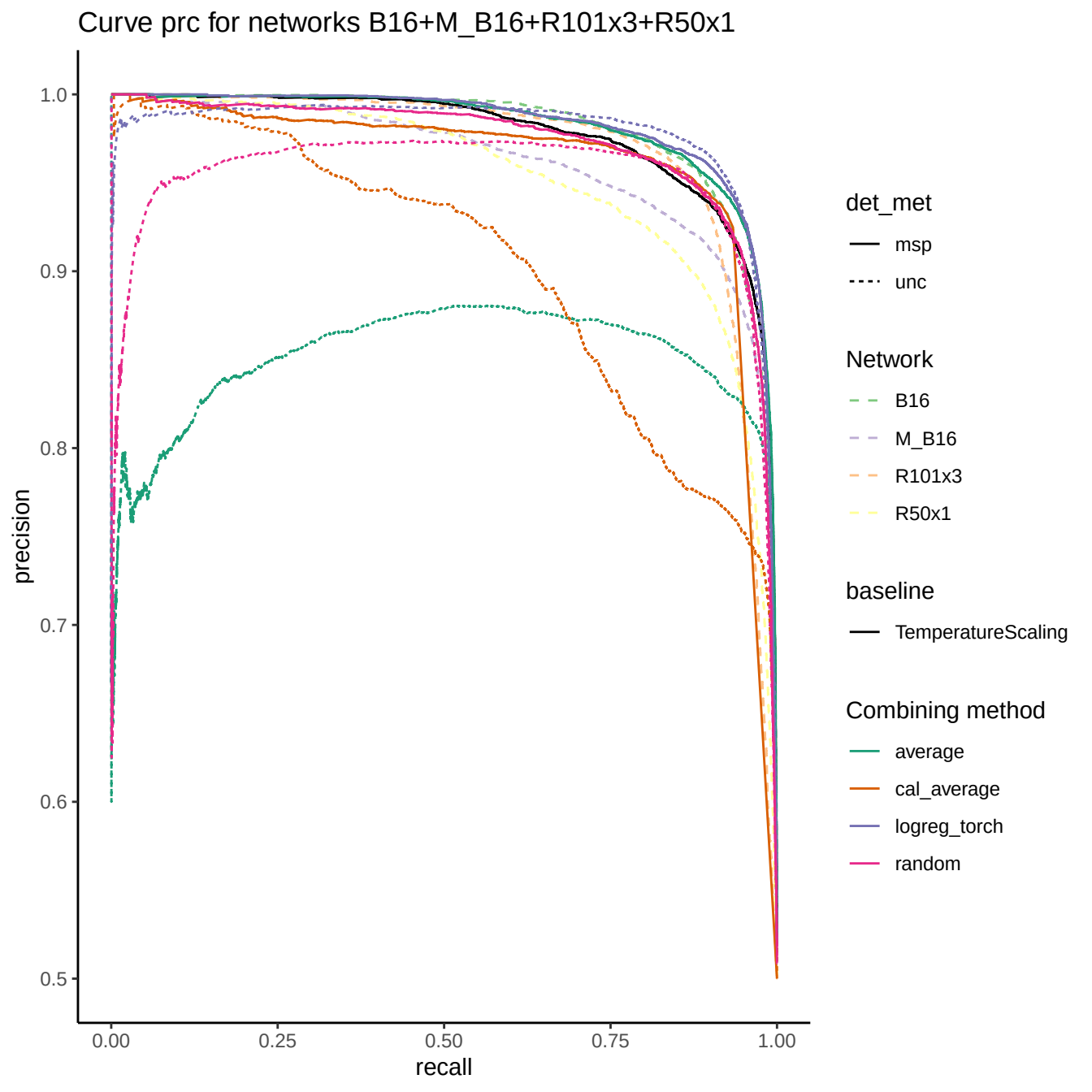

Curve roc for networks R101x3+R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
R101x3
R50_B16
R50x1

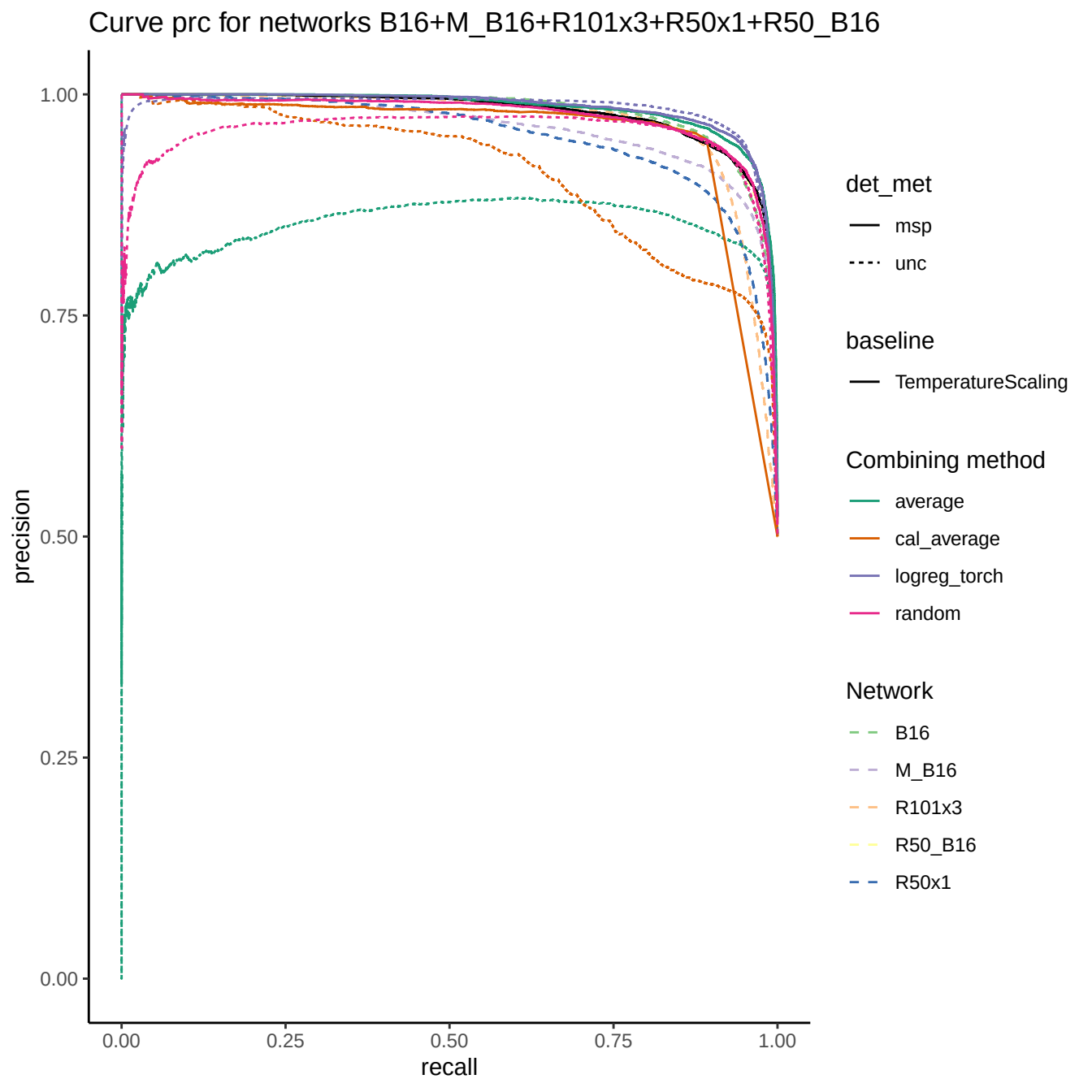

Curve roc for networks R50x1+R50_B16
TPR
FPR
0.00
0.25
0.50
0.75
1.00
Network
R50_B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

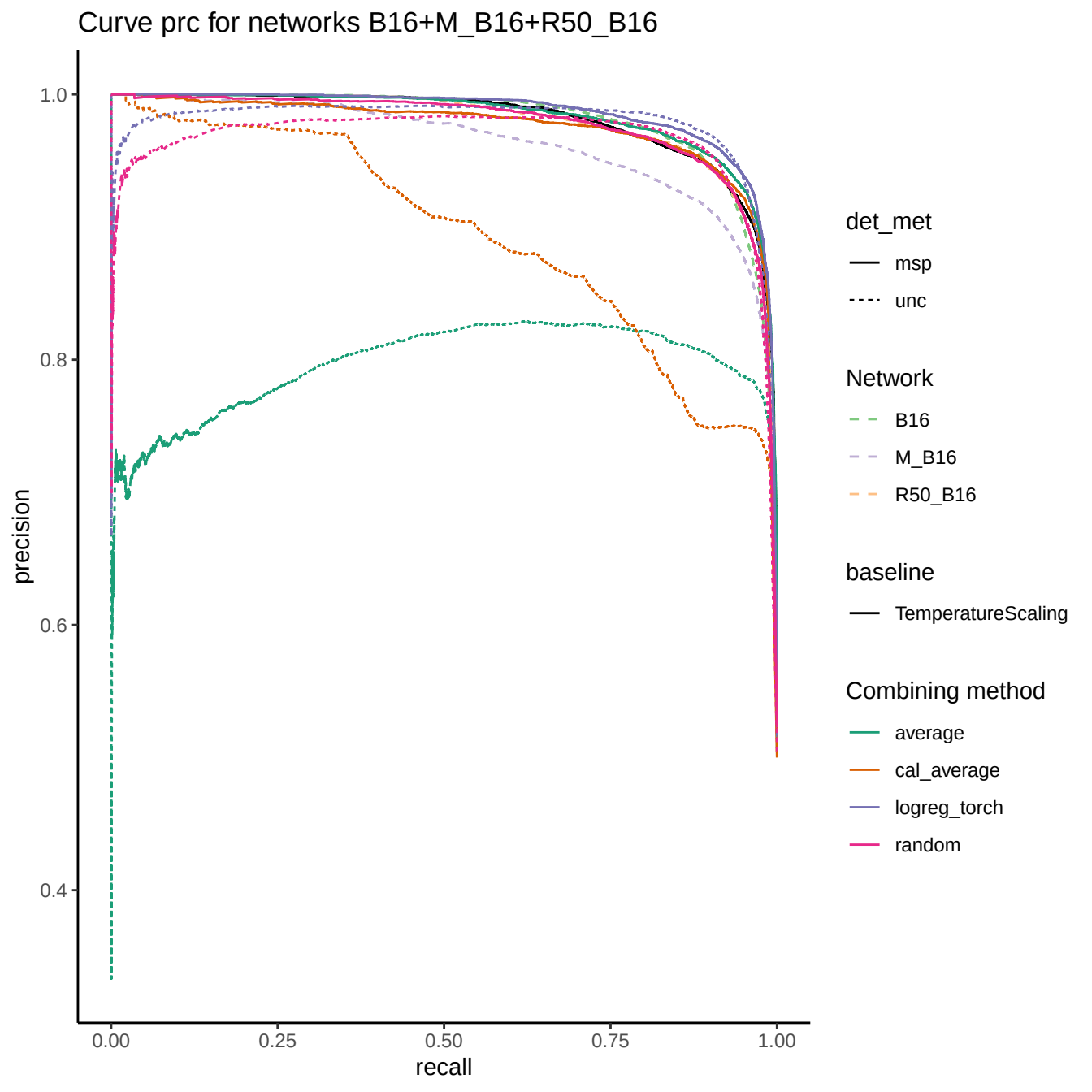

Curve prc for networks B16+M_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16

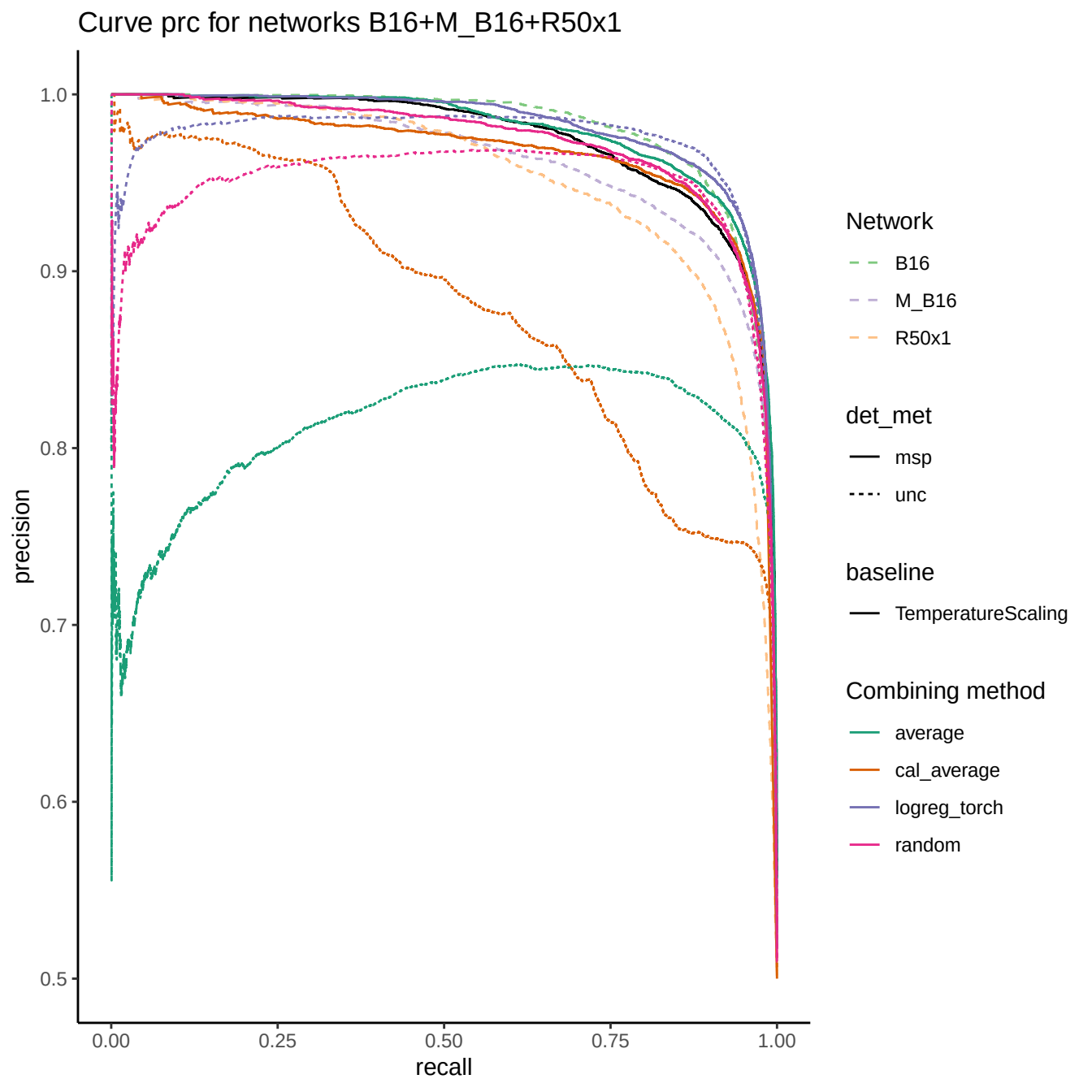

Curve prc for networks B16+M_B16+R101x3
1.0
0.8
0.6
0.4
precision
0.00
0.25
0.50
0.75
1.00
recall
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16
R101x3

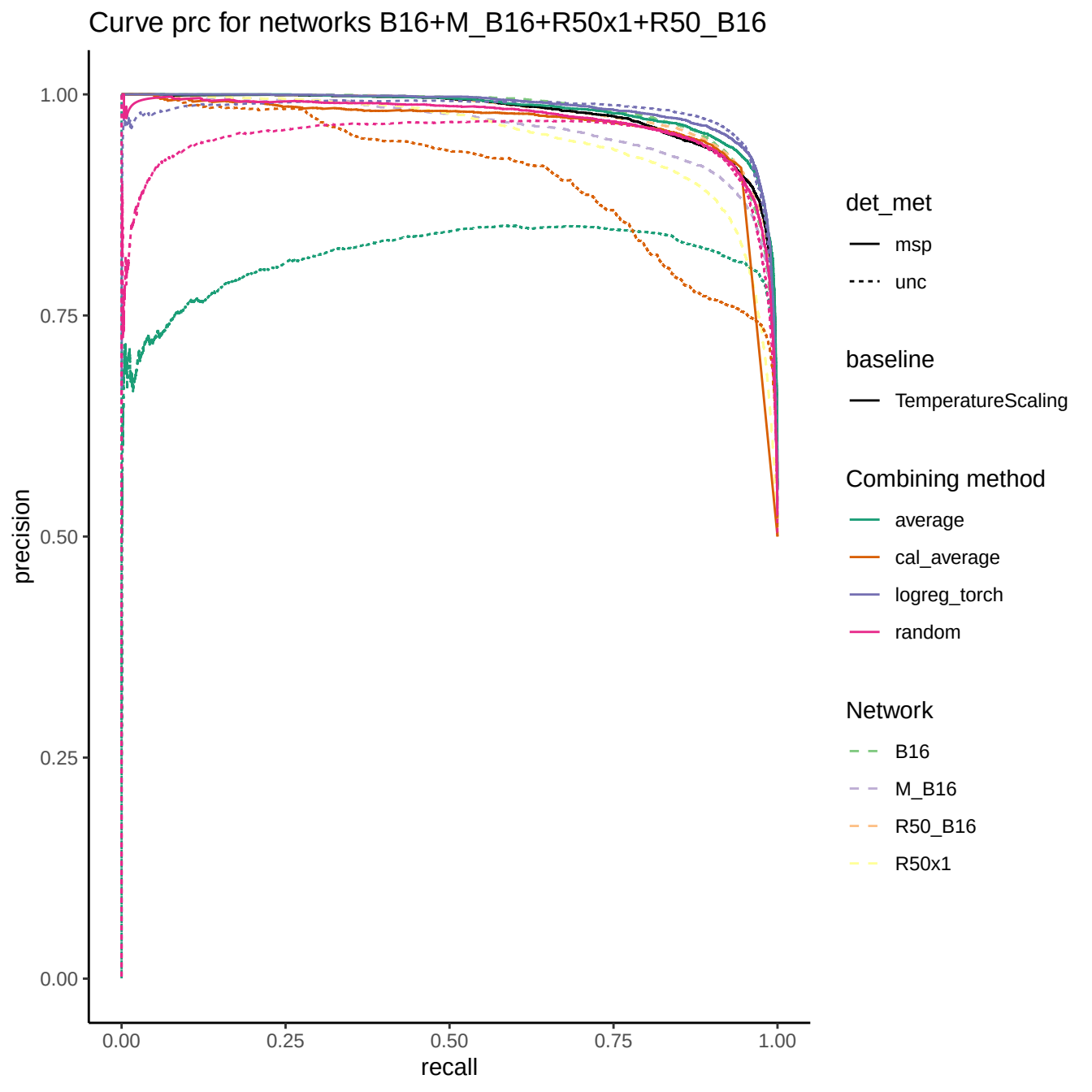

Curve prc for networks B16+M_B16+R101x3+R50_B16
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
Network
B16
M_B16
R101x3
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

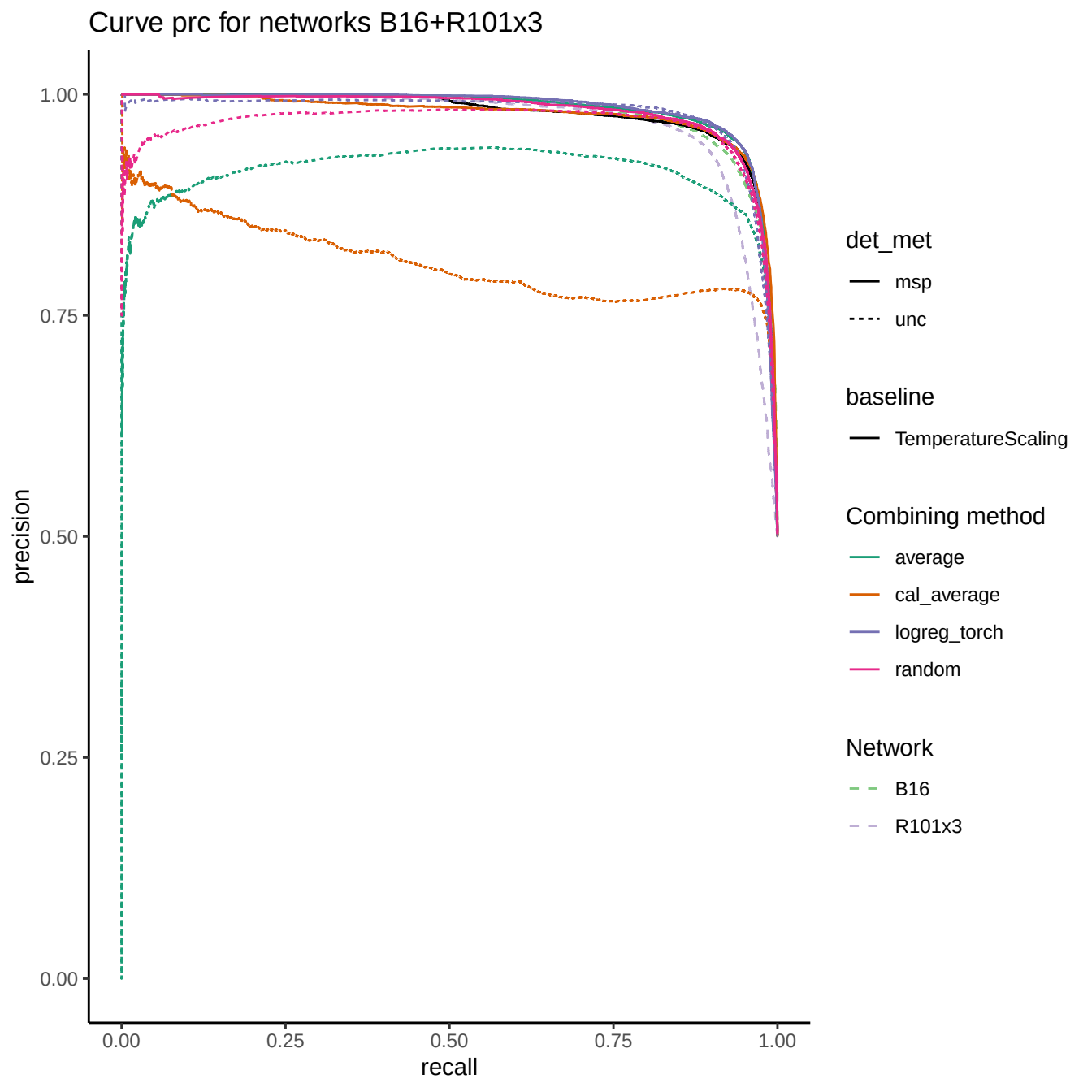

Curve prc for networks B16+M_B16+R101x3+R50x1
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
B16
M_B16
R101x3
R50x1
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

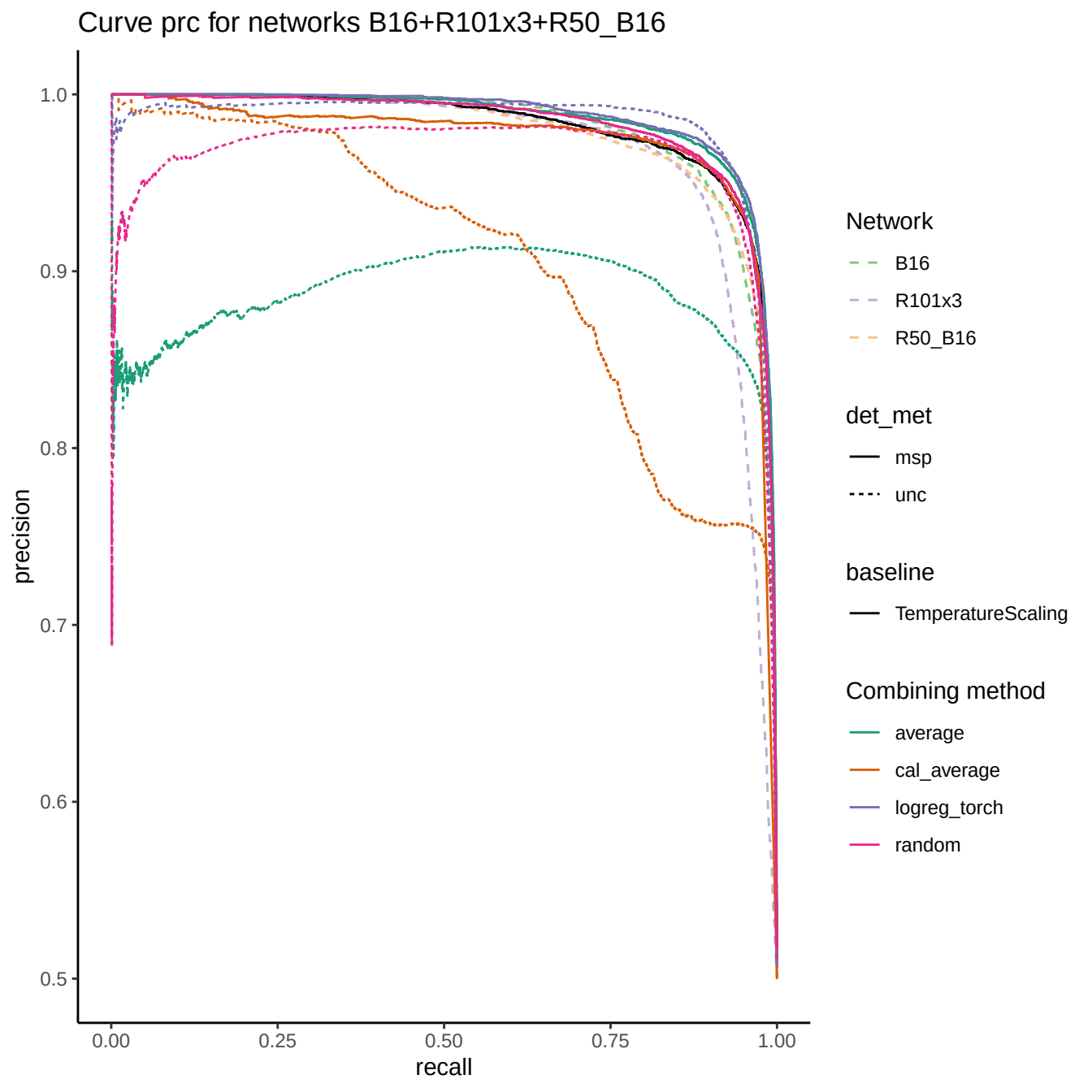

Curve prc for networks B16+M_B16+R101x3+R50x1+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16
R101x3
R50_B16
R50x1

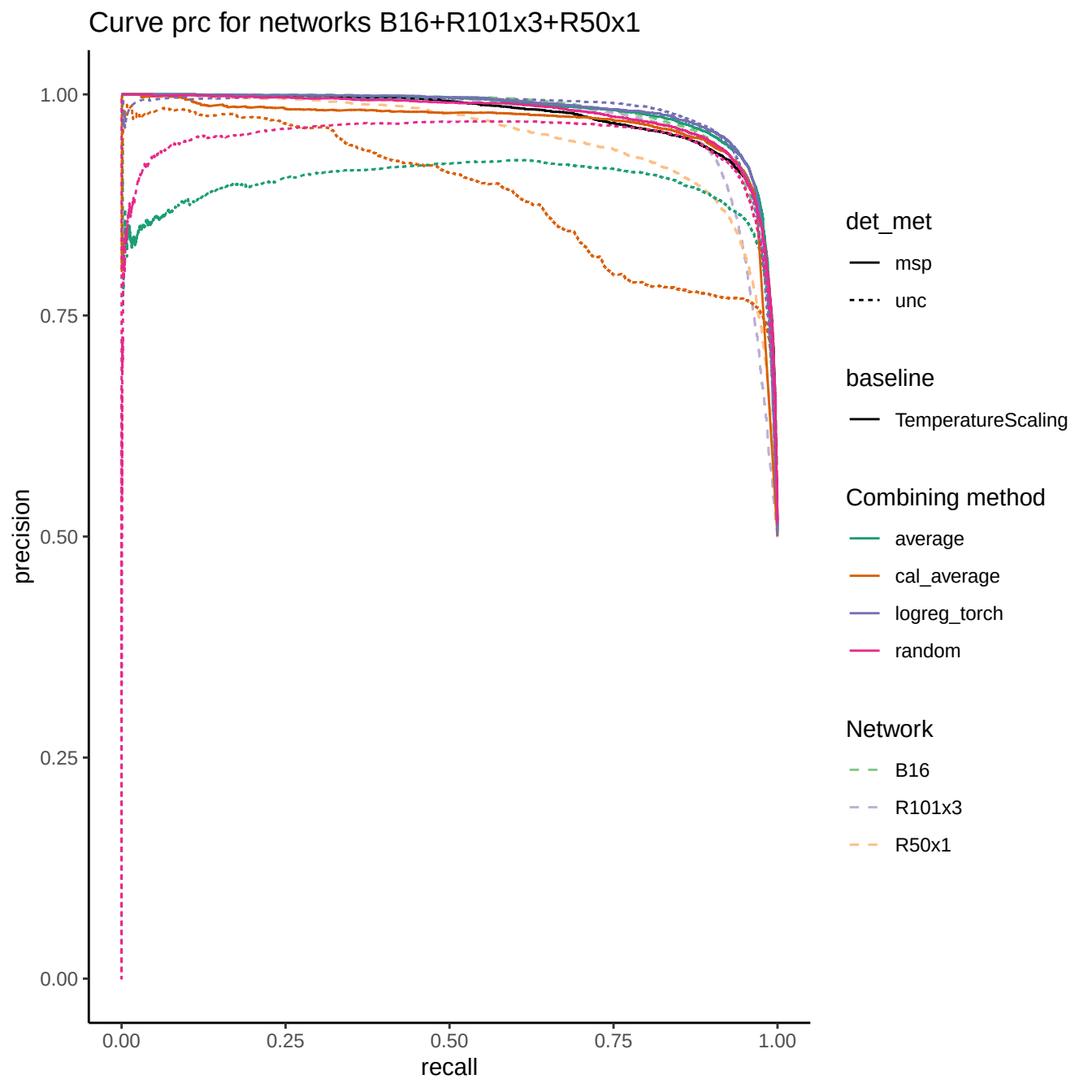

Curve prc for networks B16+M_B16+R50_B16
1.0
0.8
0.6
0.4
precision
0.00
0.25
0.50
0.75
1.00
recall
det_met
msp
unc
Network
B16
M_B16
R50_B16
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

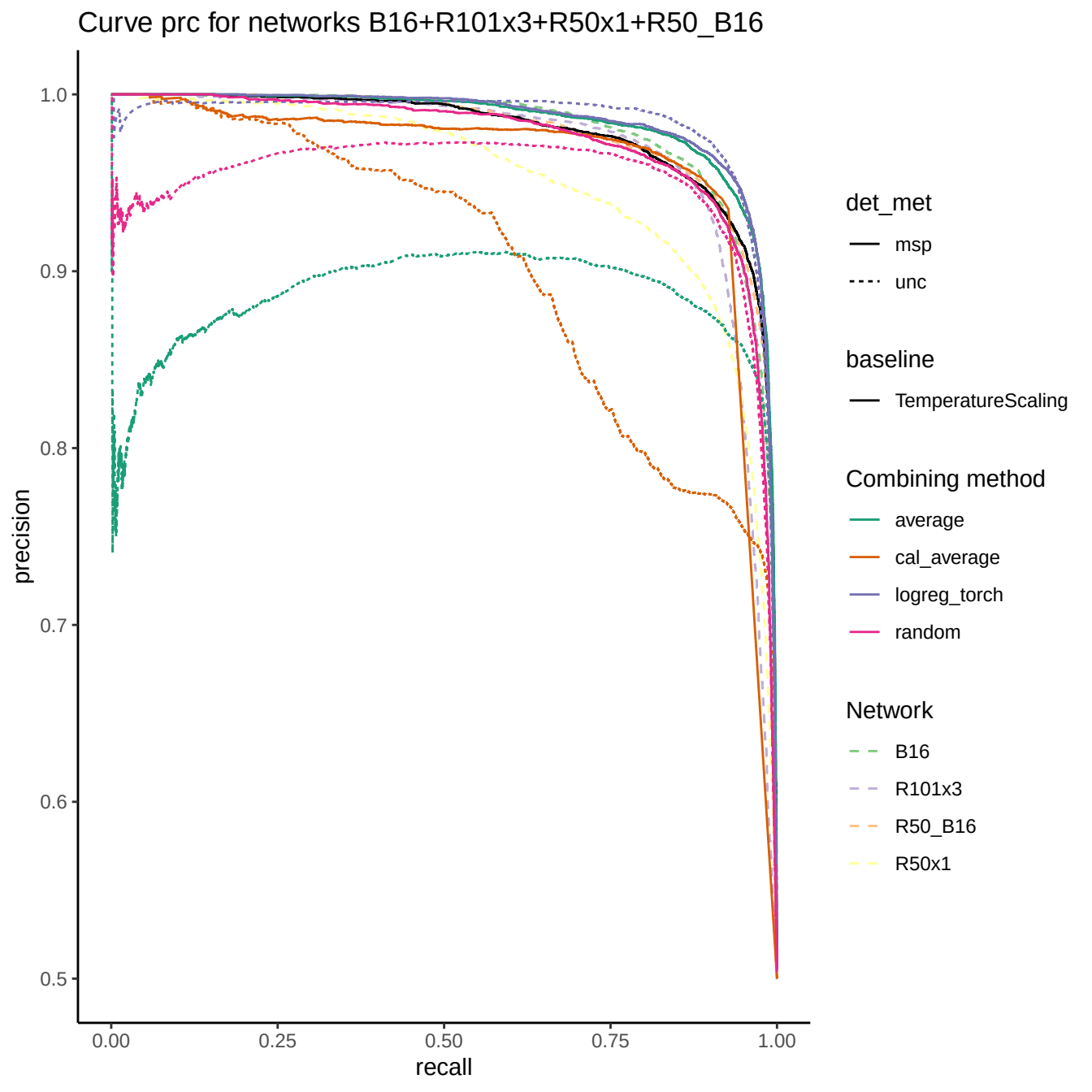

Curve prc for networks B16+M_B16+R50x1
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
Network
B16
M_B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

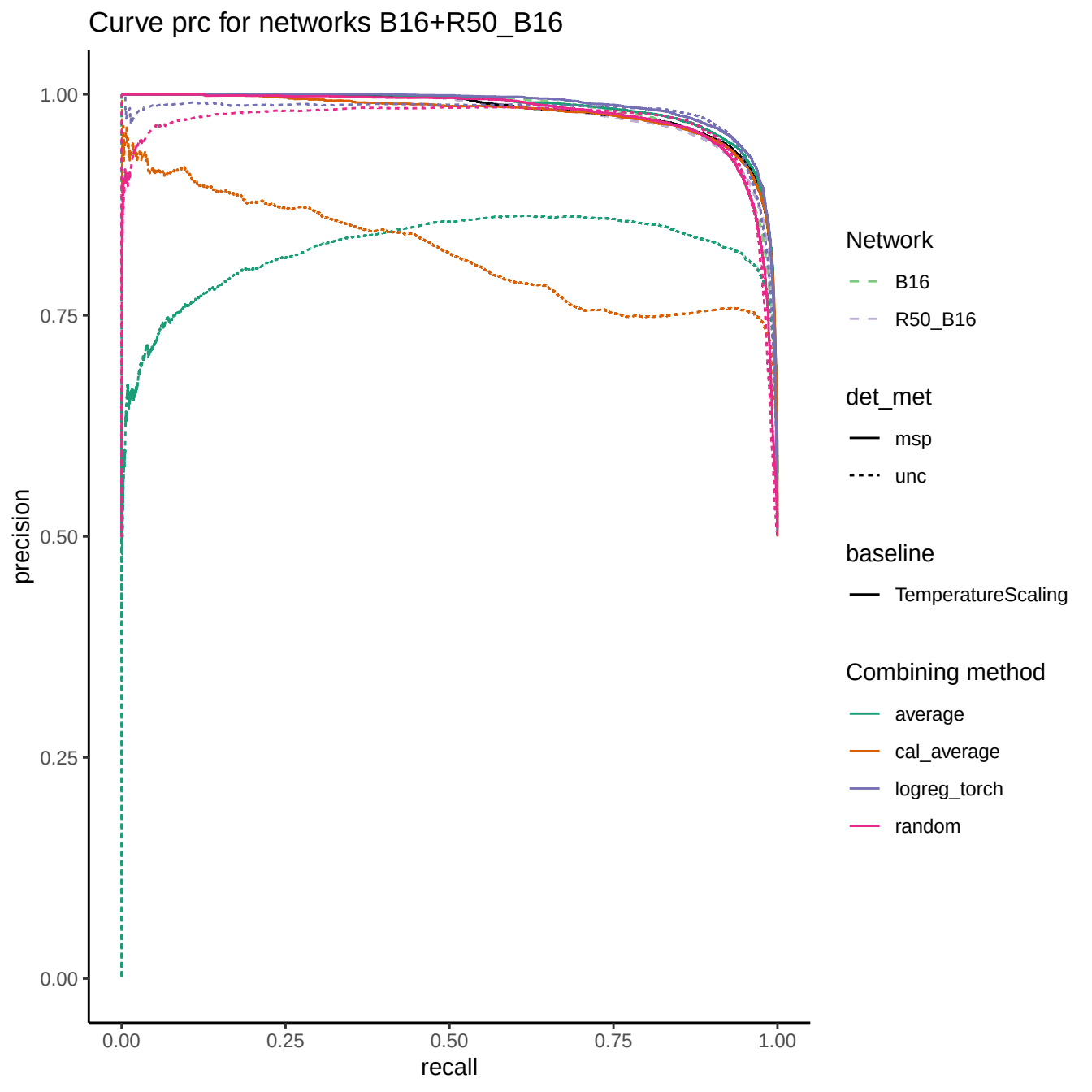

Curve prc for networks B16+M_B16+R50x1+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
M_B16
R50_B16
R50x1

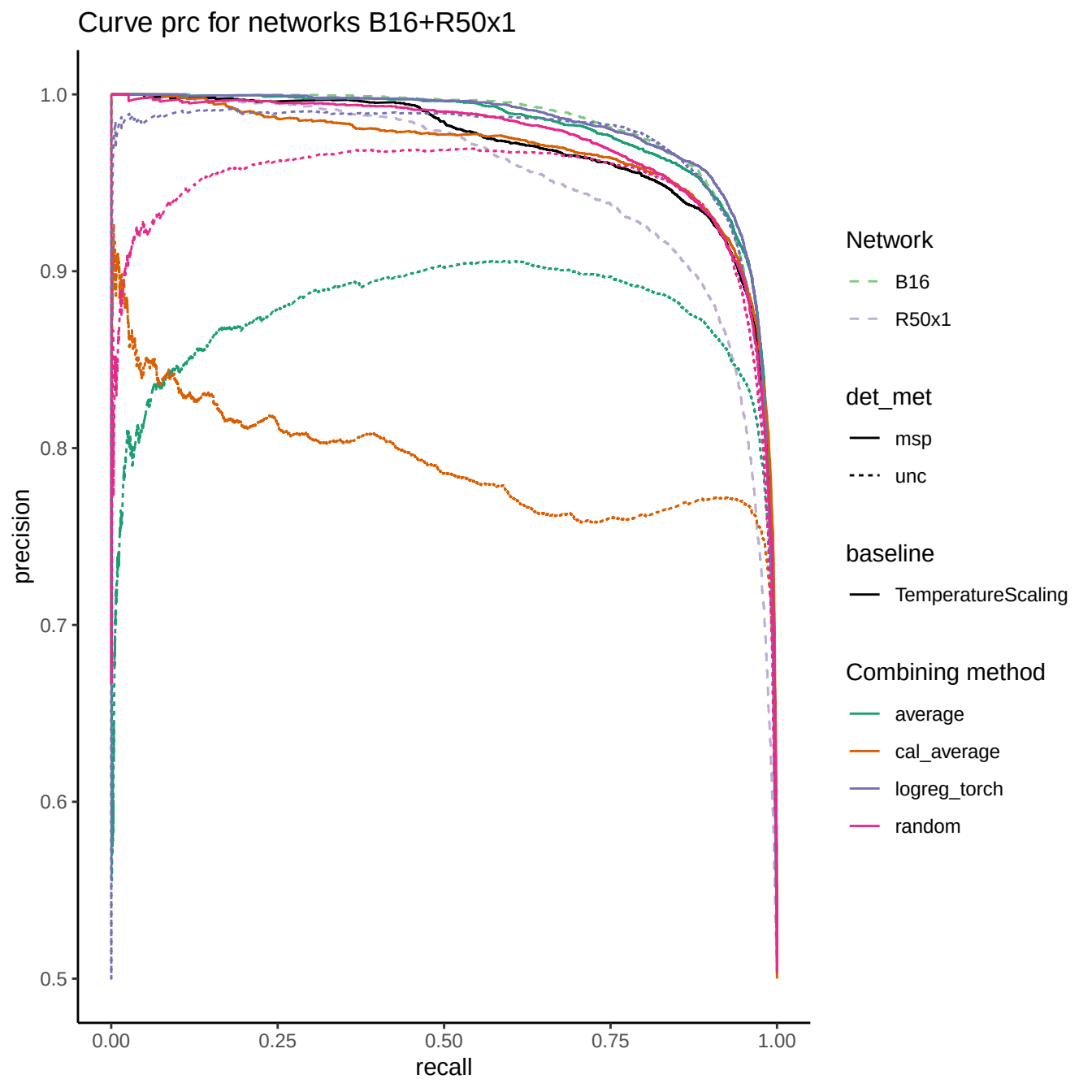

Curve prc for networks B16+R101x3
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
R101x3

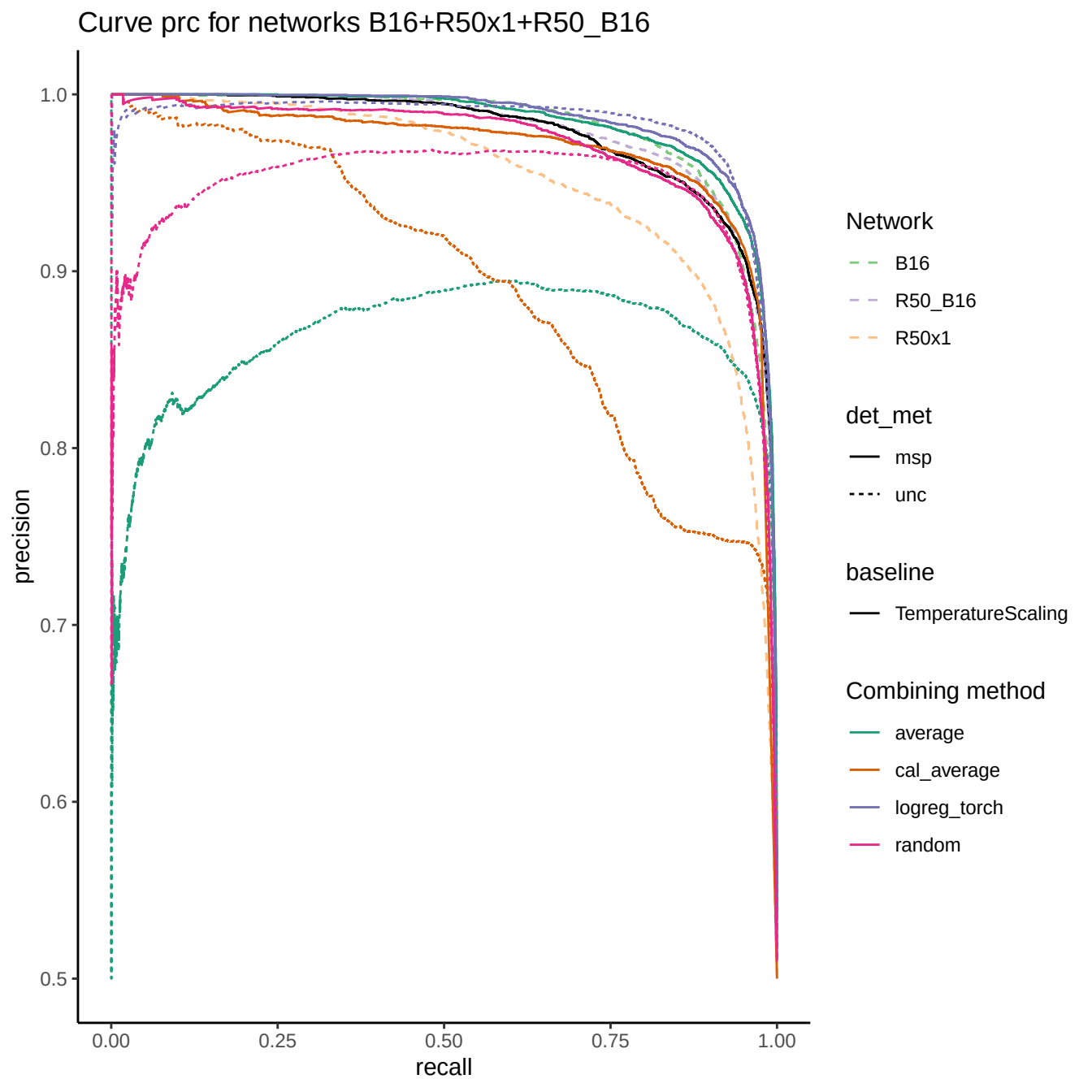

Curve prc for networks B16+R101x3+R50_B16
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
Network
B16
R101x3
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

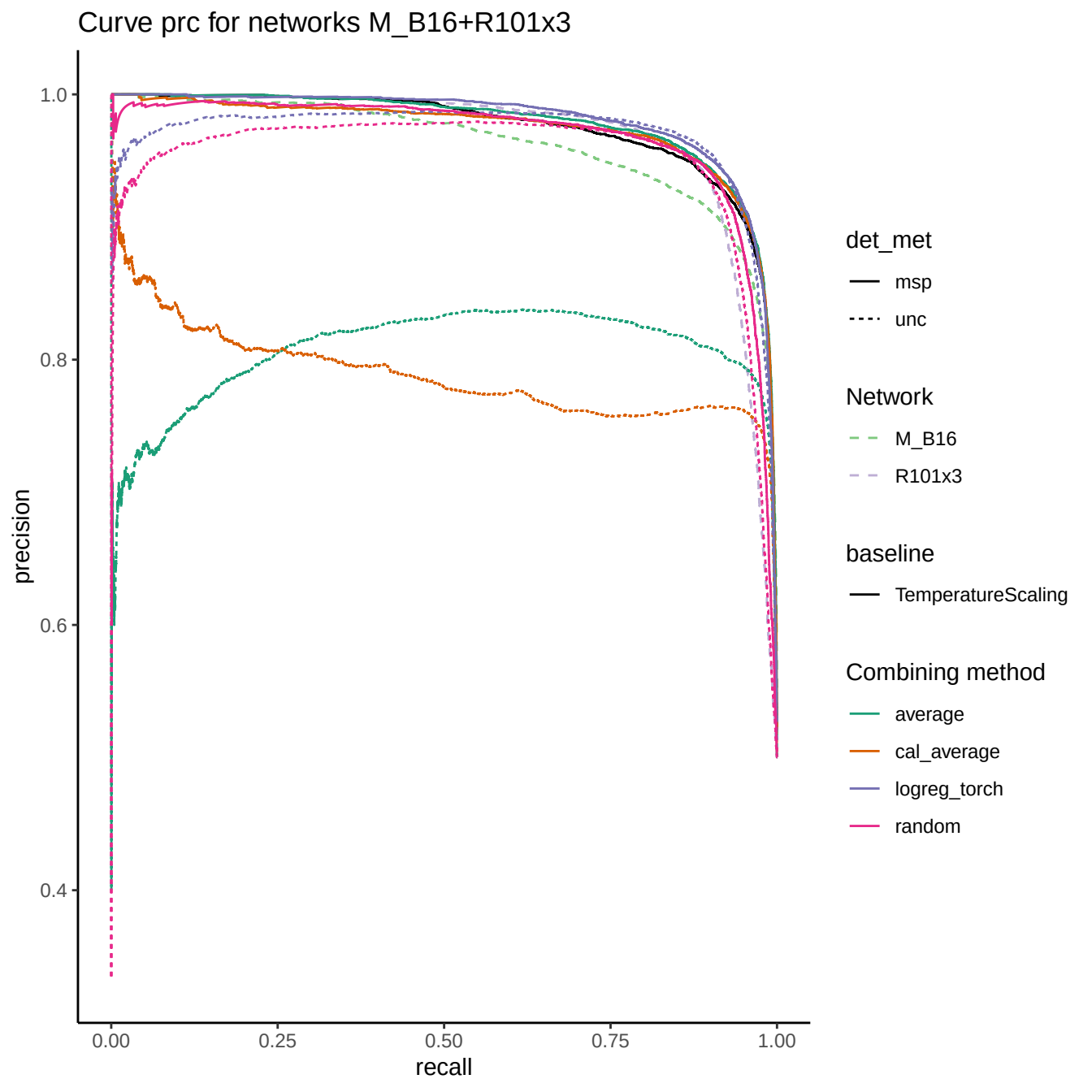

Curve prc for networks B16+R101x3+R50x1
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
R101x3
R50x1

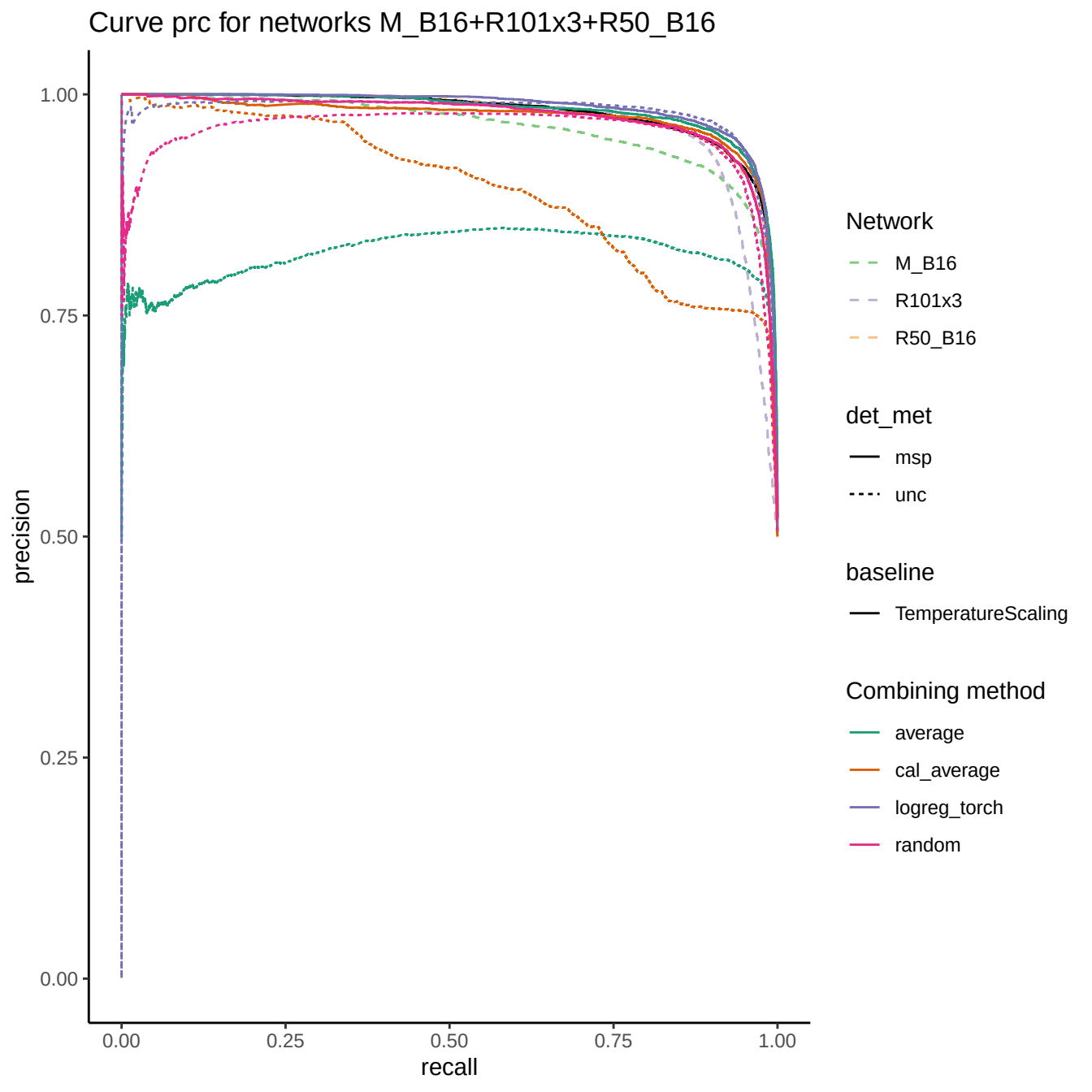

Curve prc for networks B16+R101x3+R50x1+R50_B16
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
B16
R101x3
R50_B16
R50x1

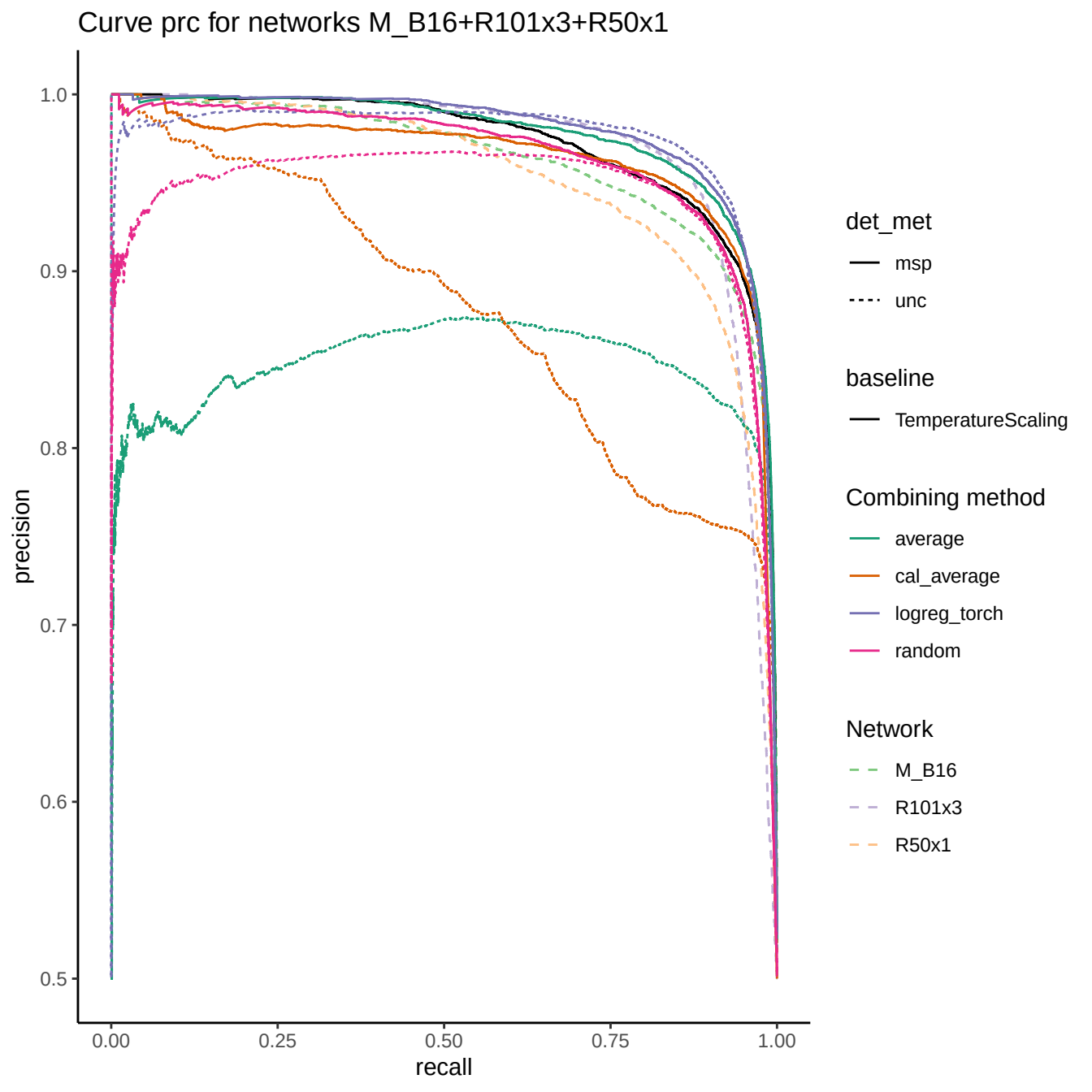

Curve prc for networks B16+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
Network
B16
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

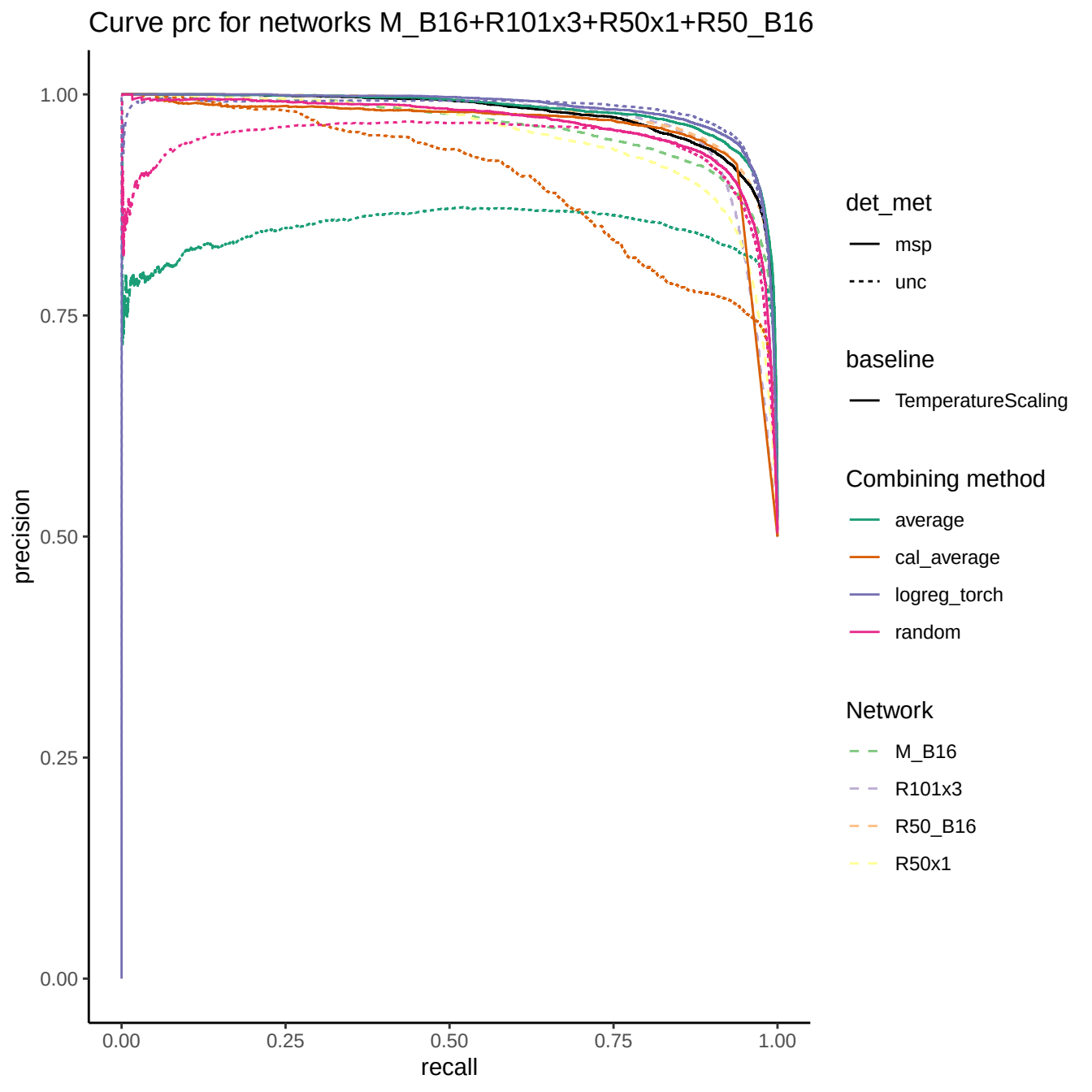

Curve prc for networks B16+R50x1
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
Network
B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

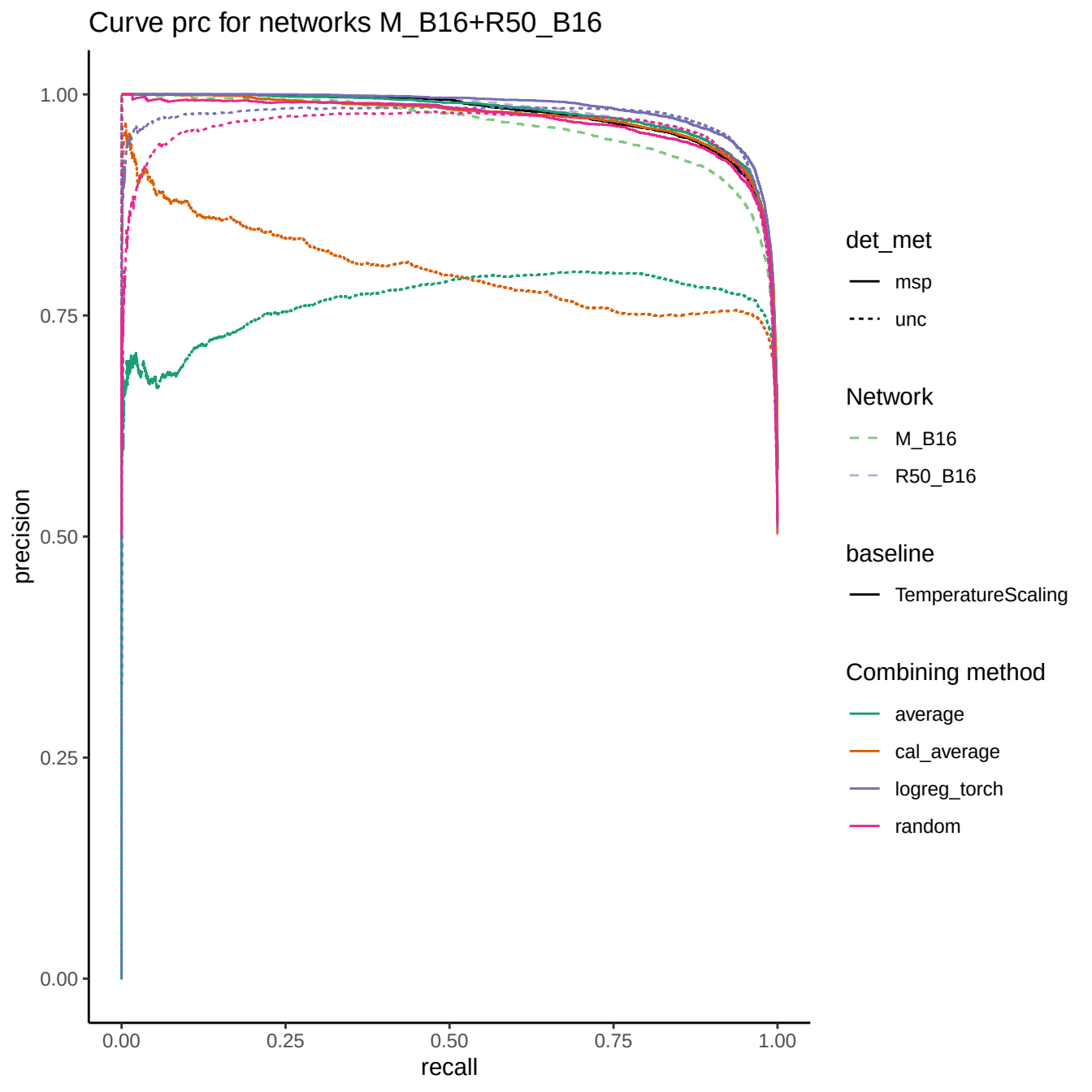

Curve prc for networks B16+R50x1+R50_B16
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
Network
B16
R50_B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

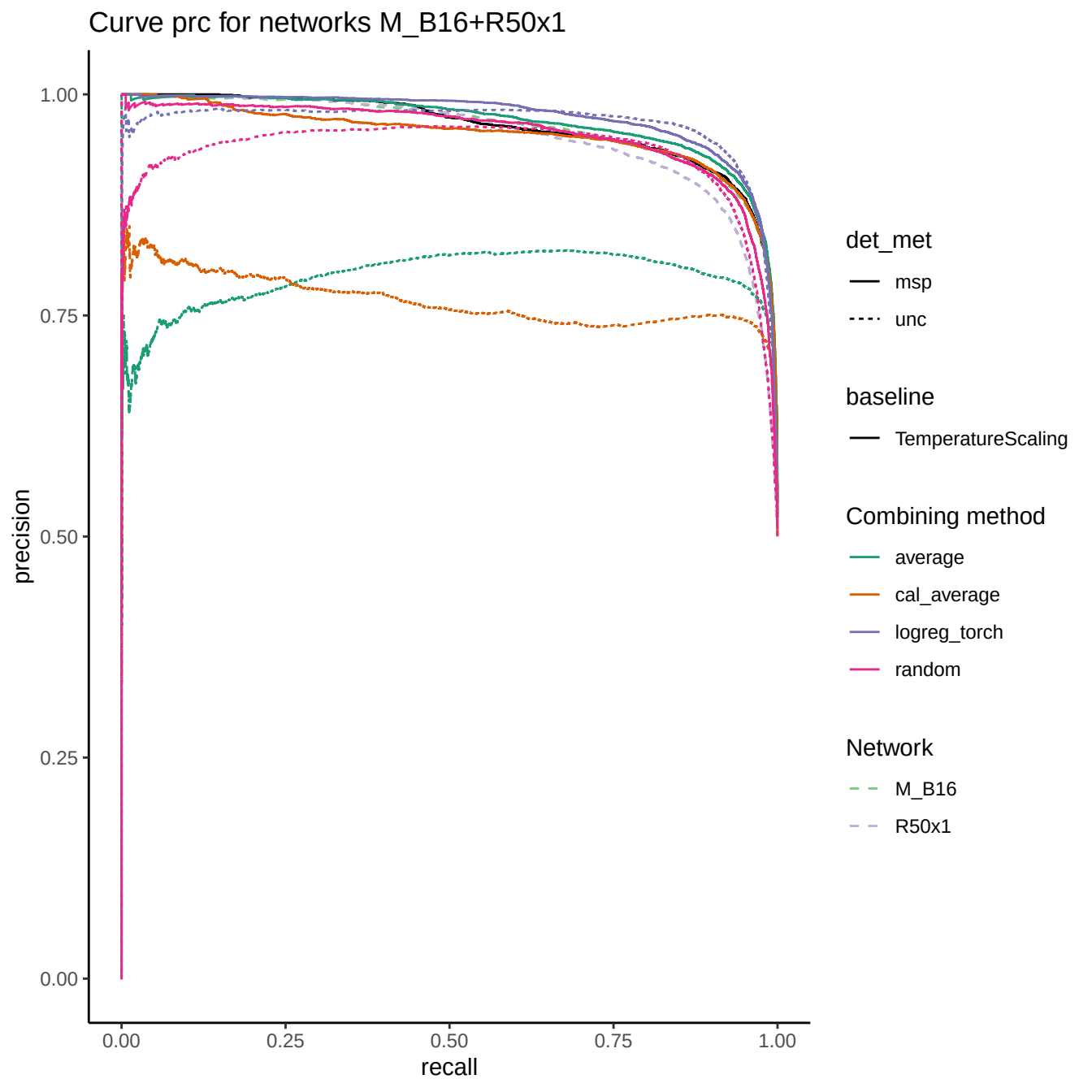

Curve prc for networks M_B16+R101x3
precision
recall
1.0
0.8
0.6
0.4
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
M_B16
R101x3
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

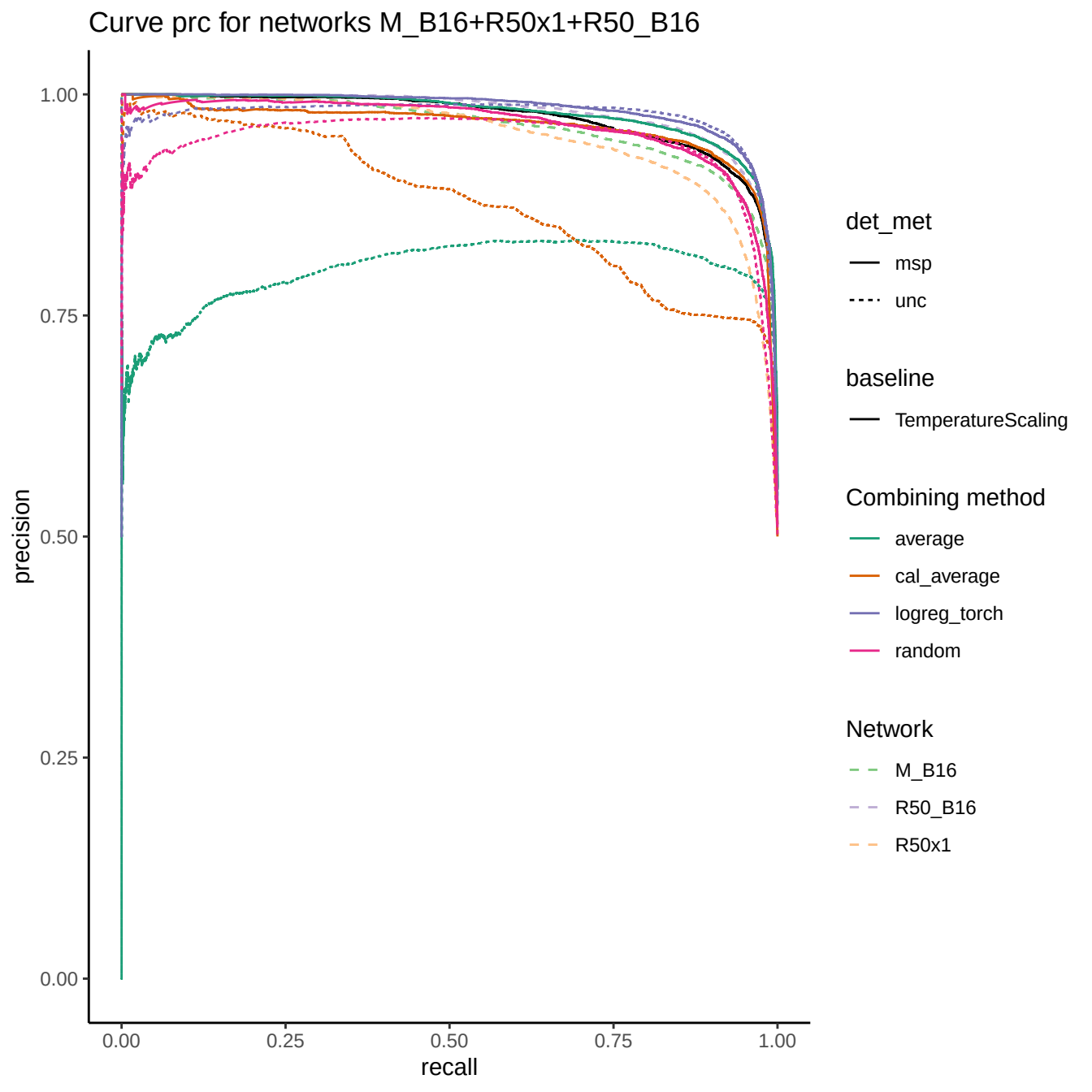

Curve prc for networks M_B16+R101x3+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
Network
M_B16
R101x3
R50_B16
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

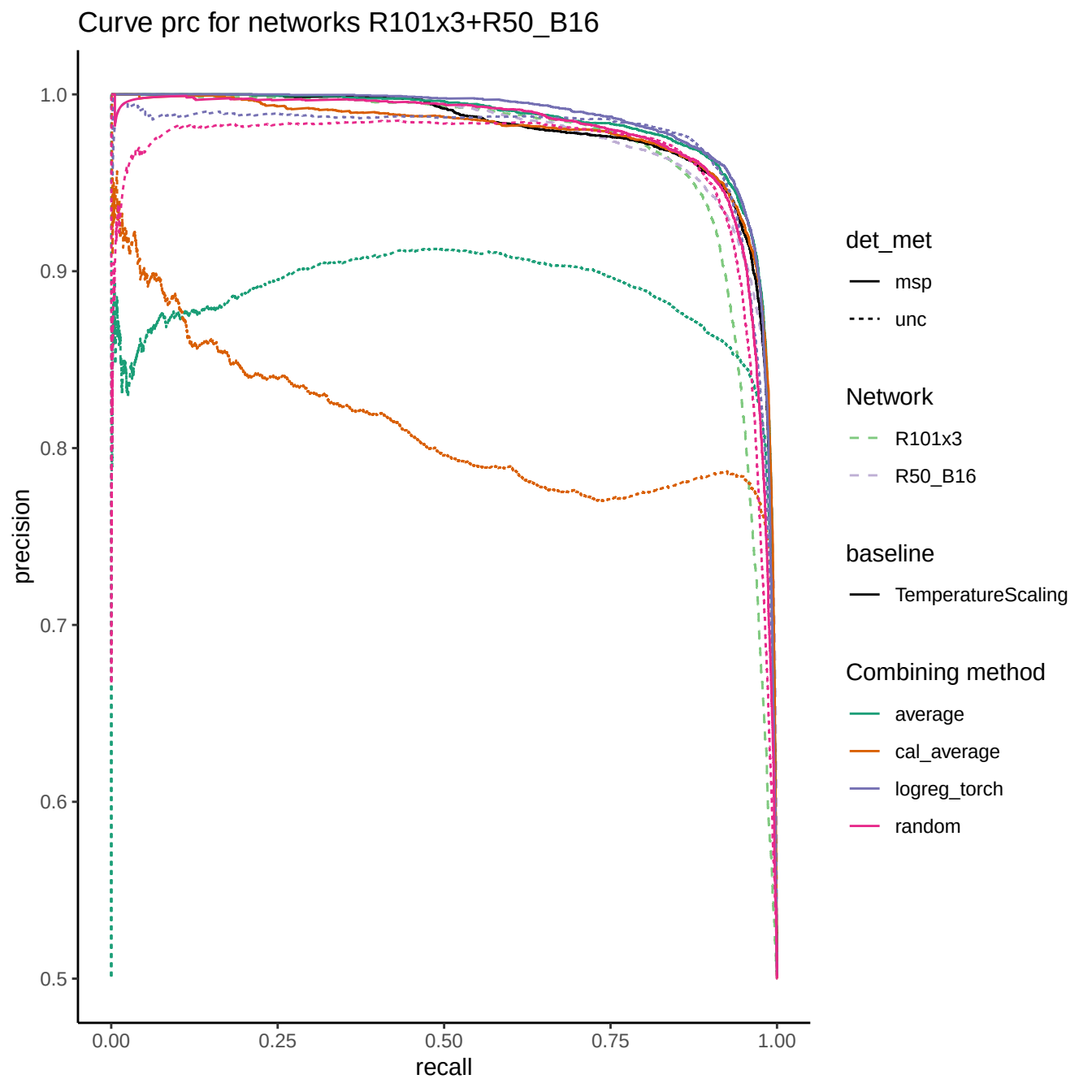

Curve prc for networks M_B16+R101x3+R50x1
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R101x3
R50x1

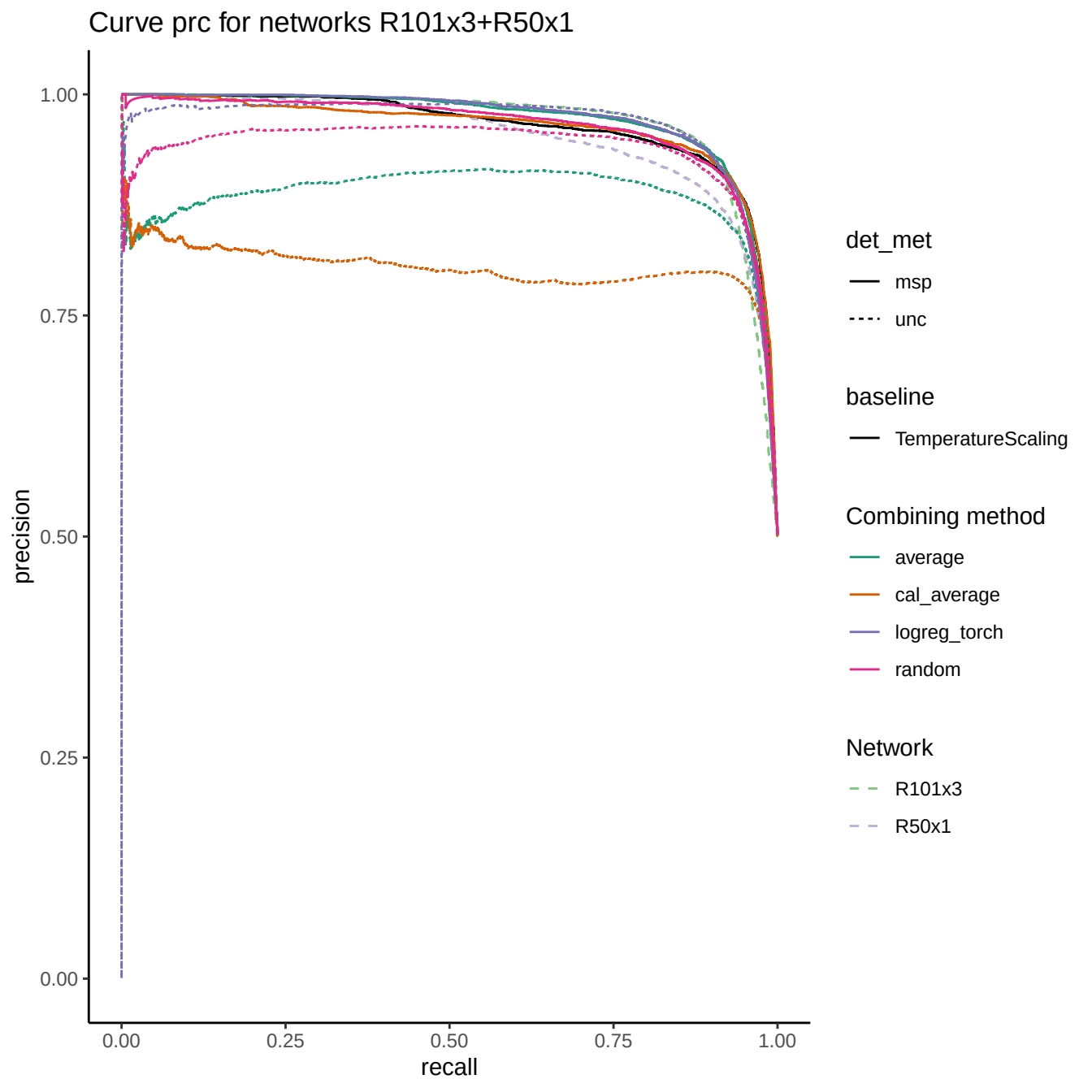

Curve prc for networks M_B16+R101x3+R50x1+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R101x3
R50_B16
R50x1

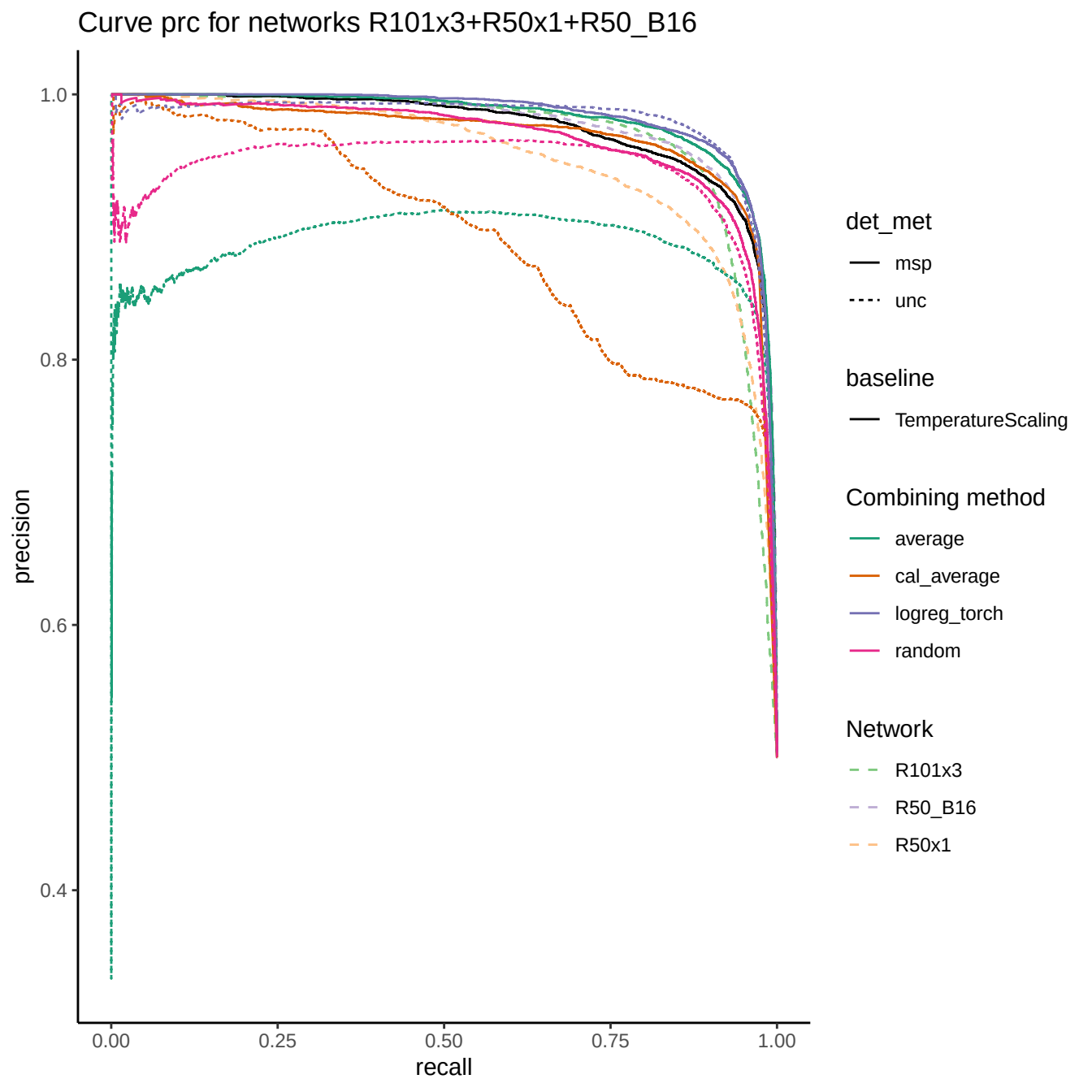

Curve prc for networks M_B16+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
M_B16
R50_B16
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random

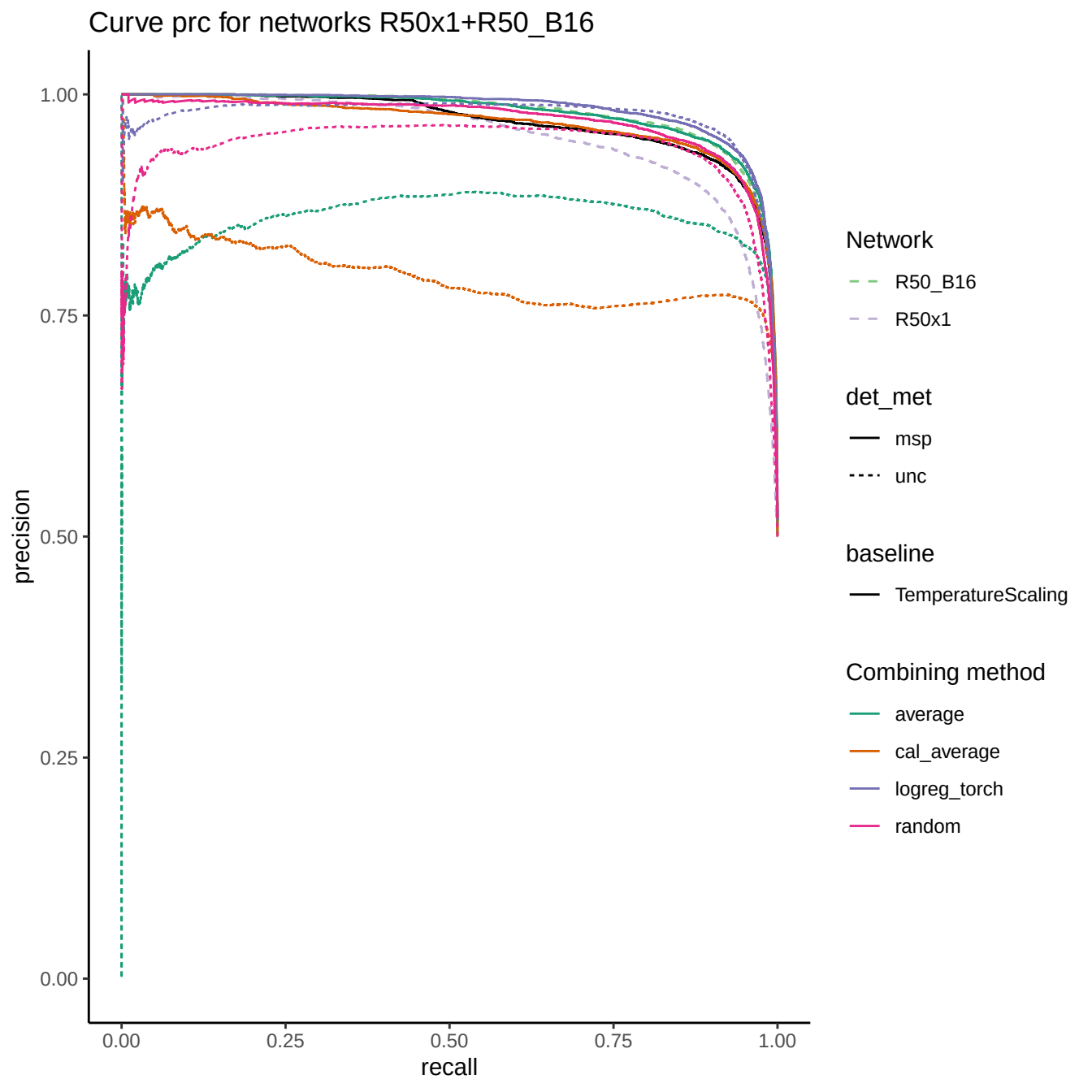

Curve prc for networks M_B16+R50x1
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R50x1


Curve prc for networks M_B16+R50x1+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
M_B16
R50_B16
R50x1


Curve prc for networks R101x3+R50_B16
precision
recall
1.0
0.9
0.8
0.7
0.6
0.5
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
Network
R101x3
R50_B16
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random


Curve prc for networks R101x3+R50x1
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
R101x3
R50x1


Curve prc for networks R101x3+R50x1+R50_B16
precision
recall
1.0
0.8
0.6
0.4
0.00
0.25
0.50
0.75
1.00
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random
Network
R101x3
R50_B16
R50x1


Curve prc for networks R50x1+R50_B16
precision
recall
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
Network
R50_B16
R50x1
det_met
msp
unc
baseline
TemperatureScaling
Combining method
average
cal_average
logreg_torch
random