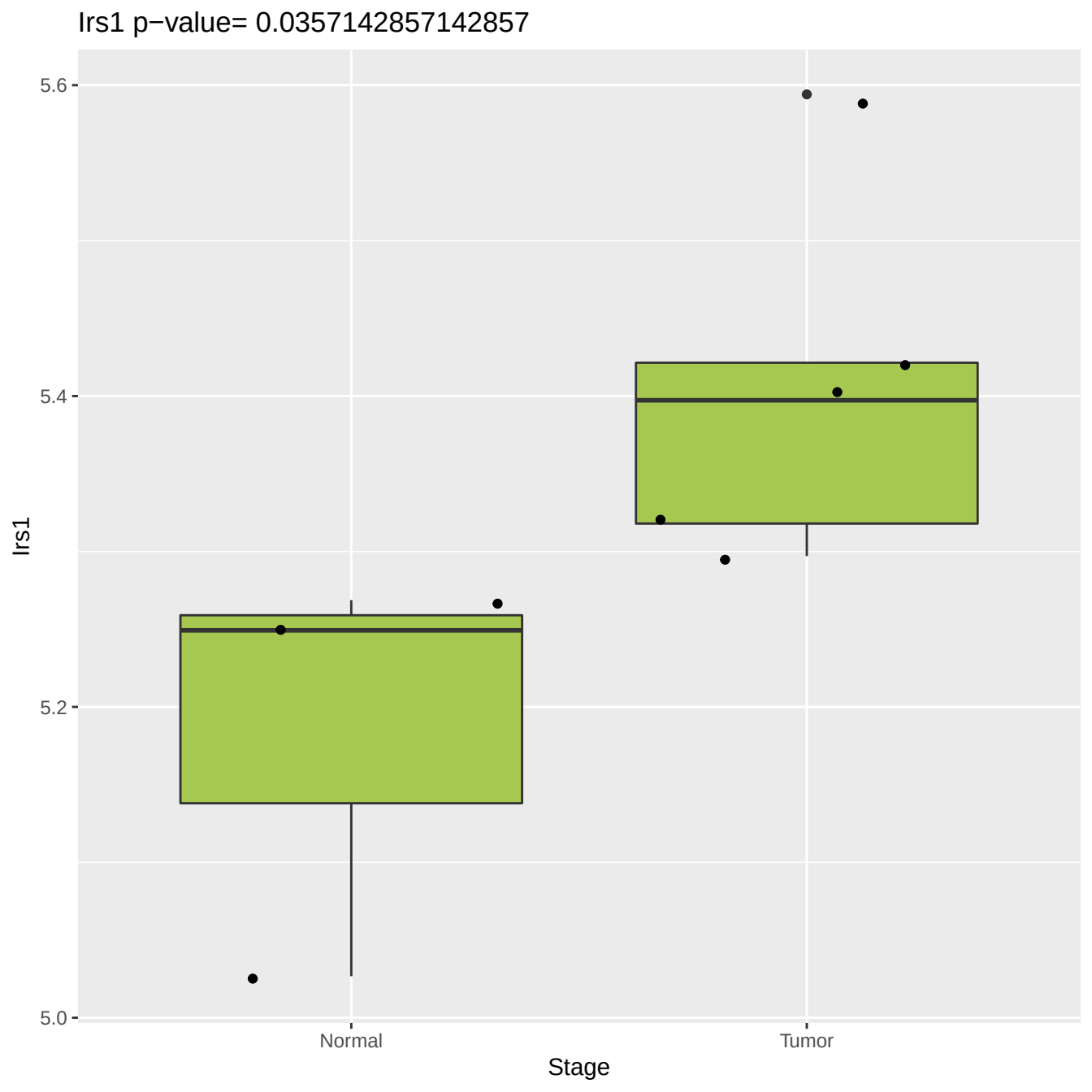
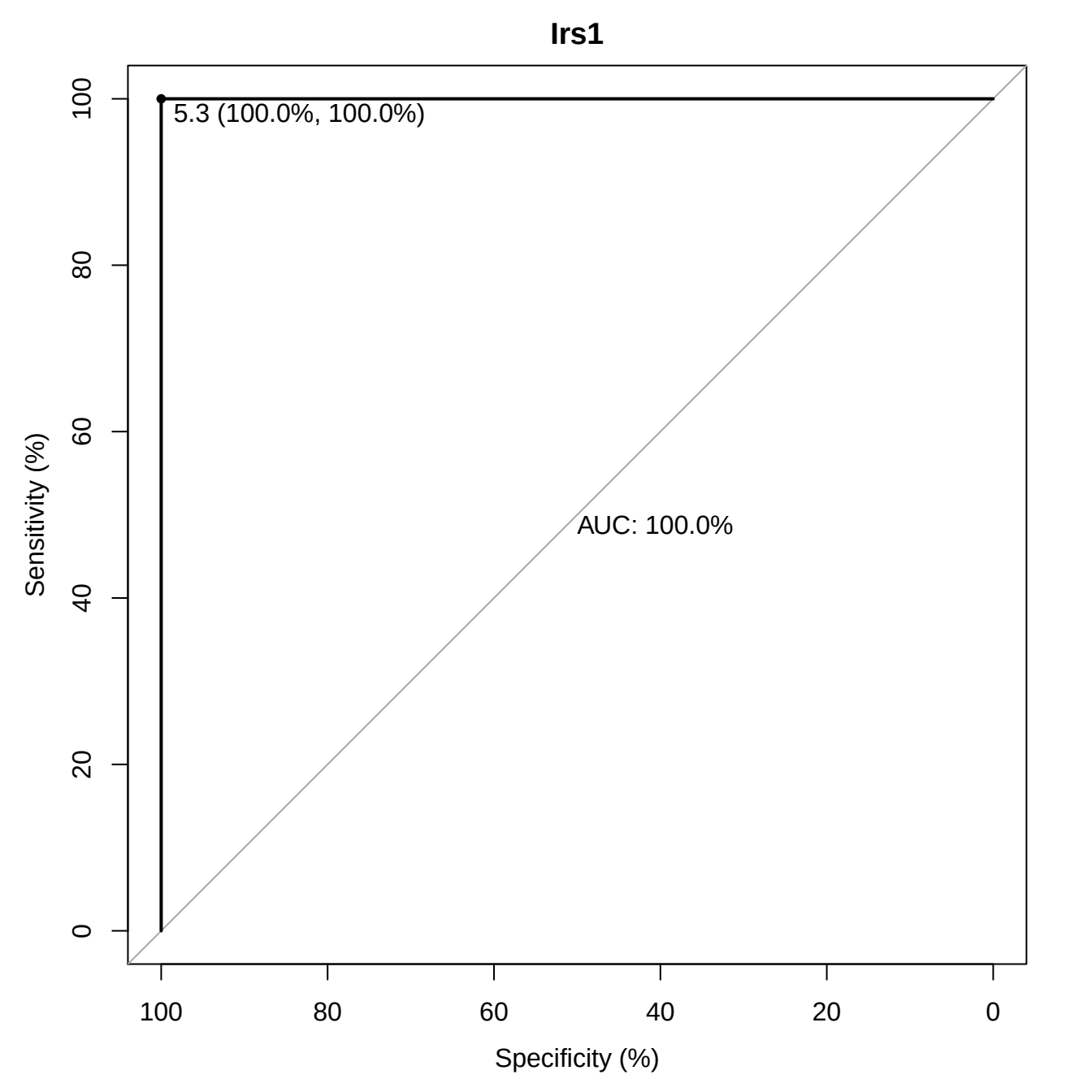
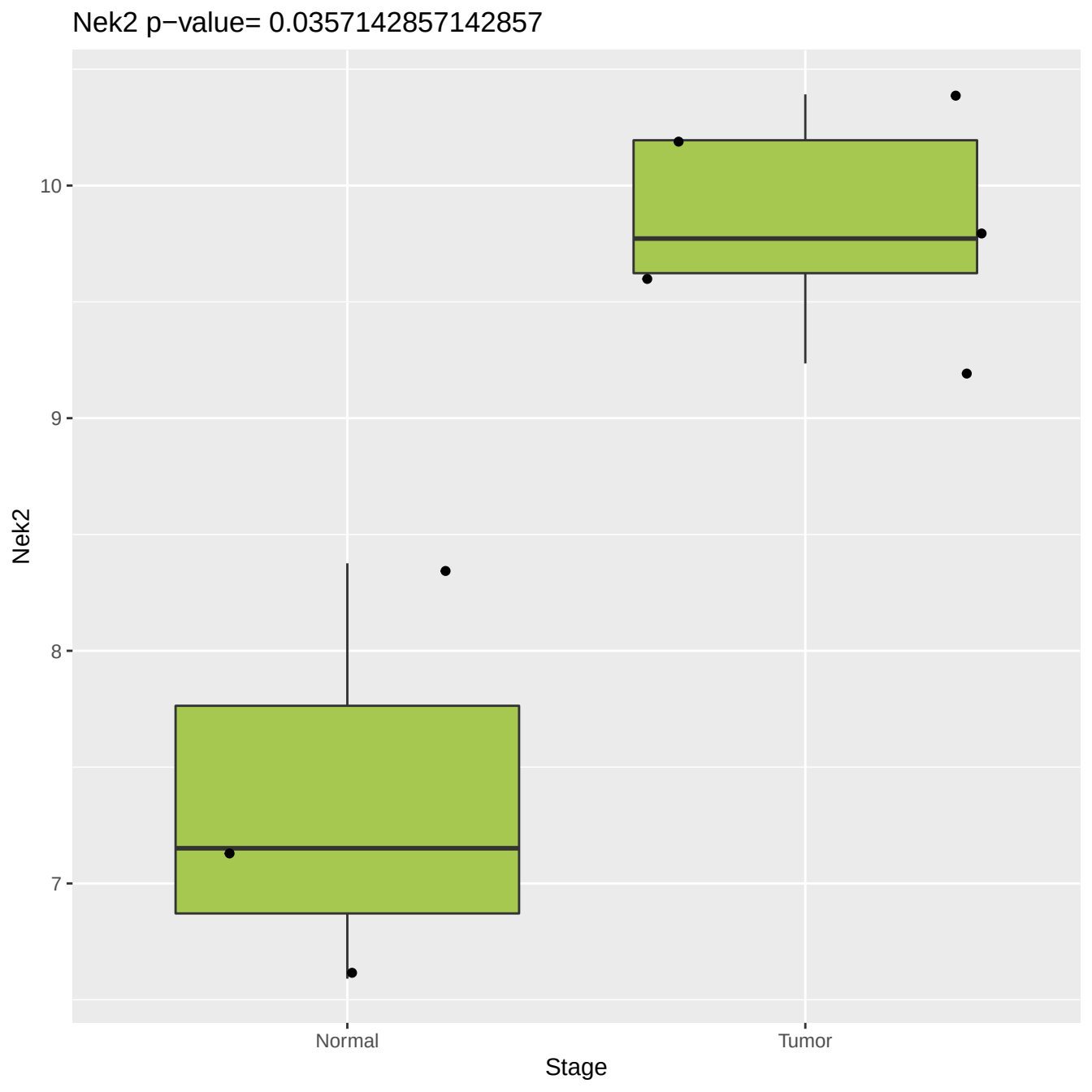
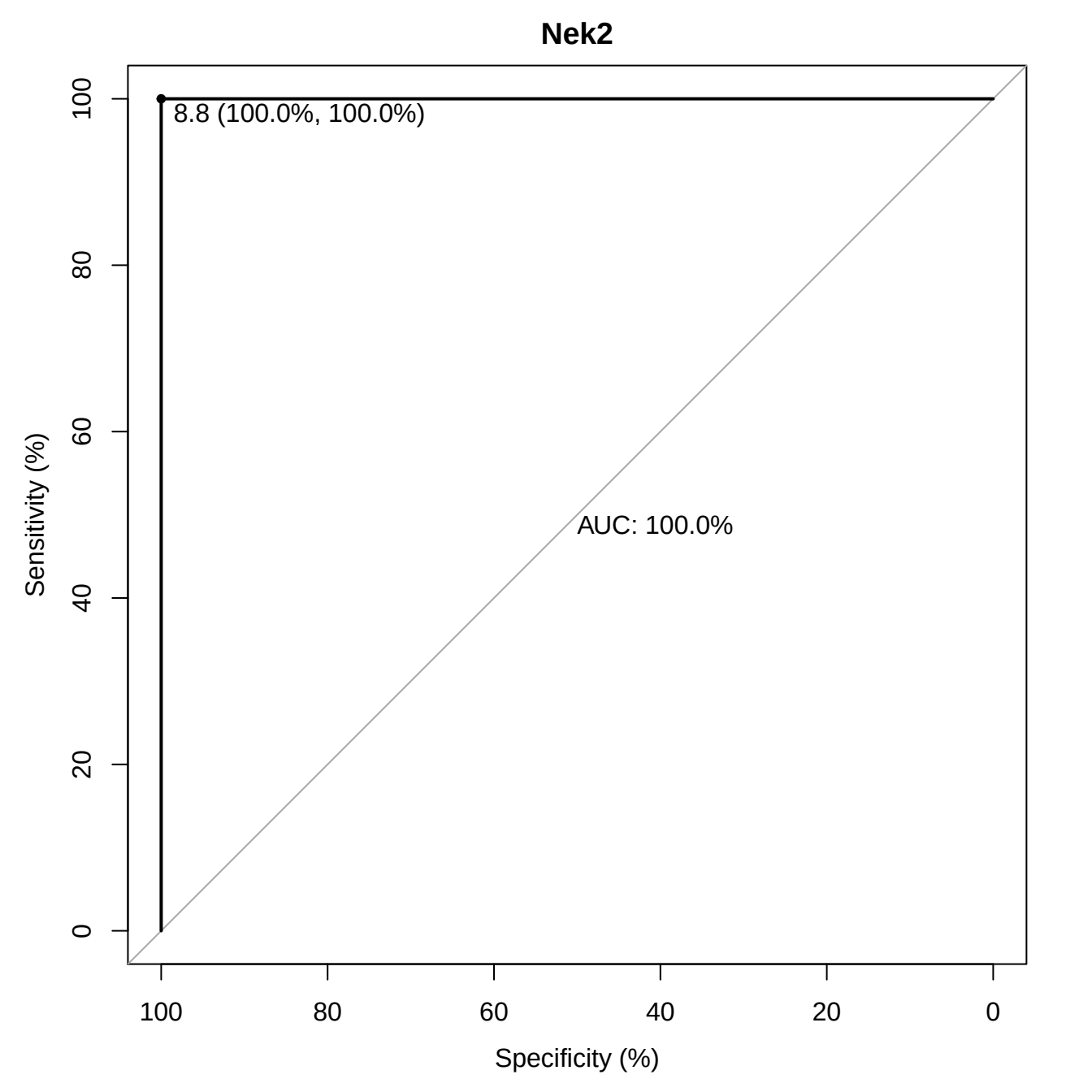
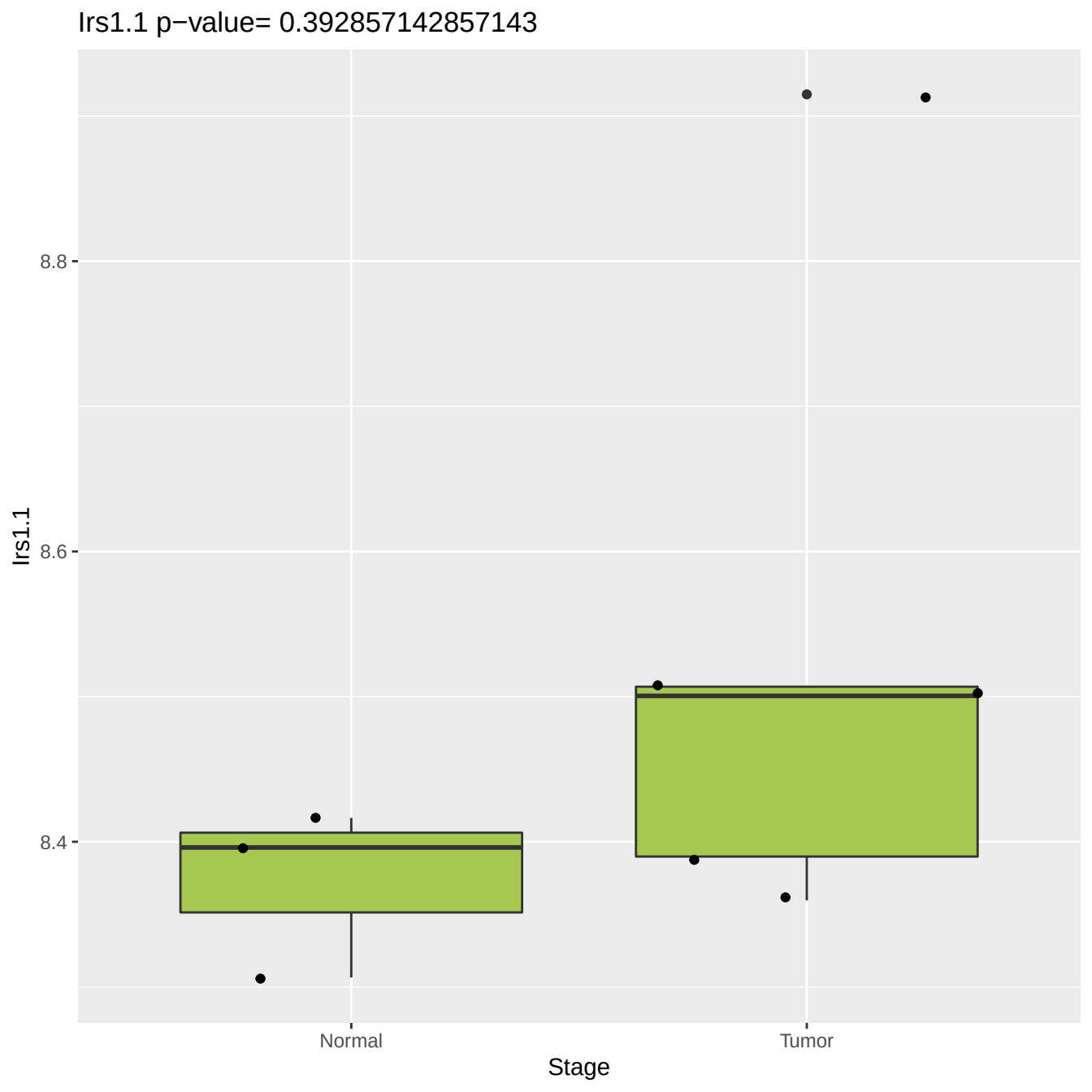
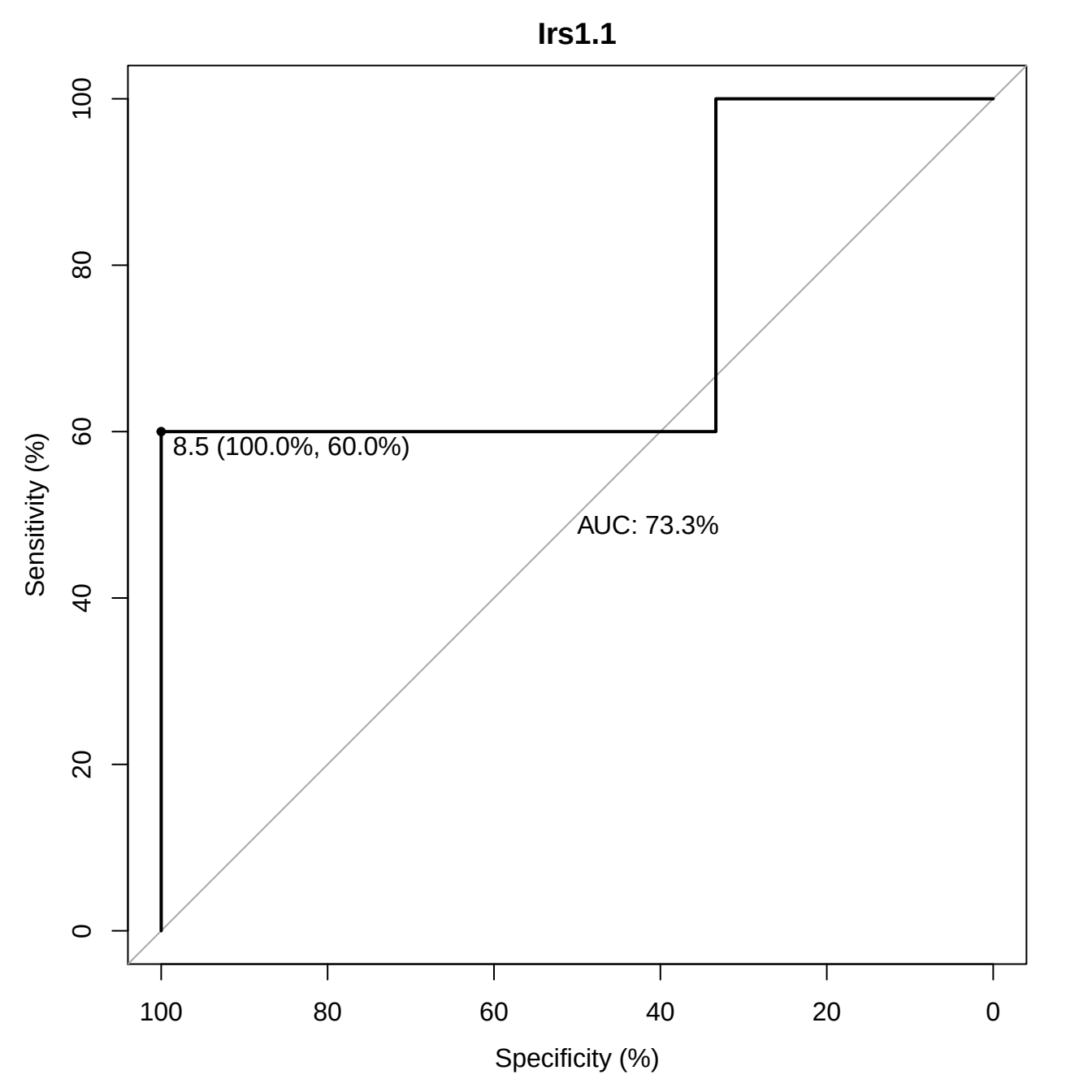

Irs1 p−value= 0.0357142857142857
5.6
5.4
5.2
5.0
Irs1
Normal
Tumor
Stage

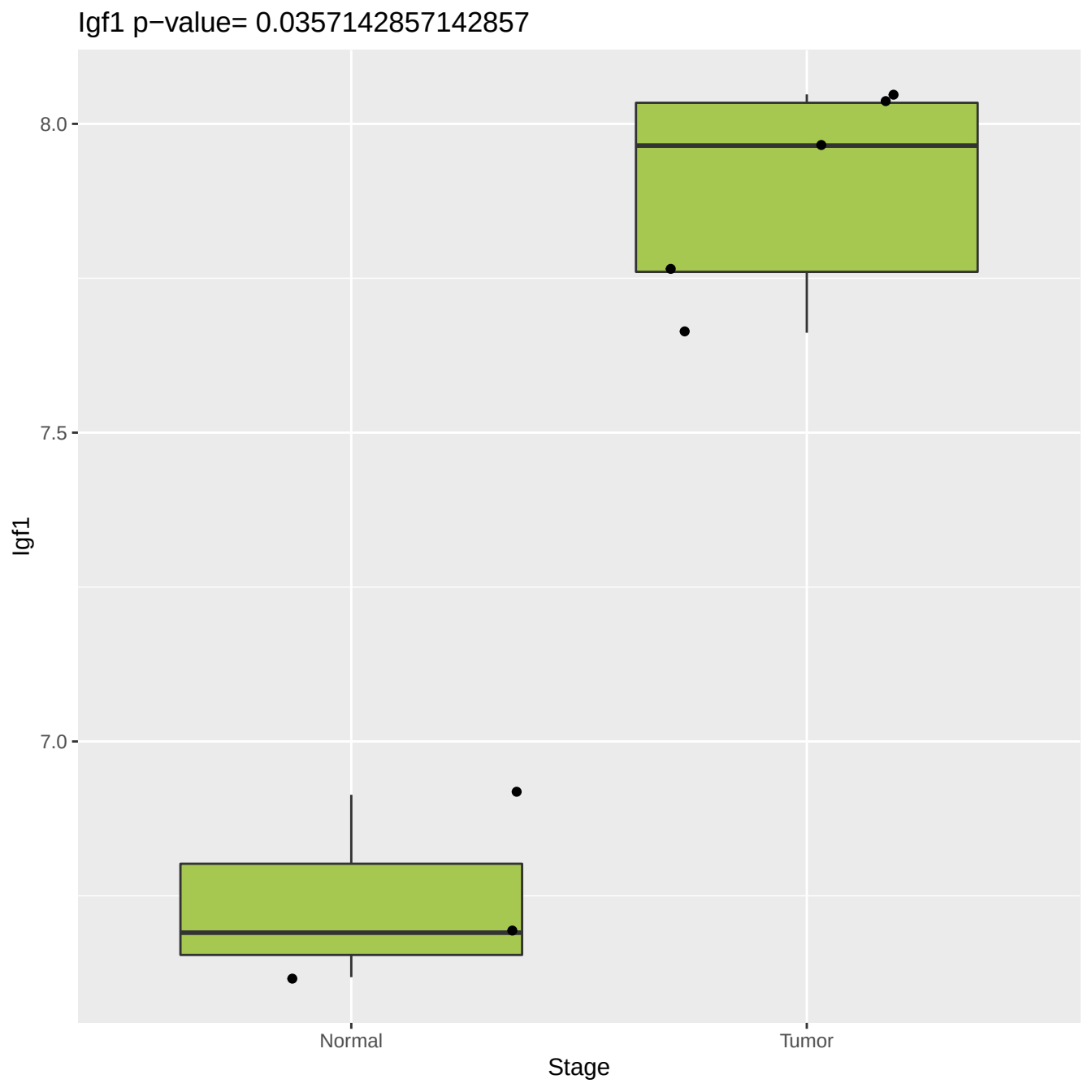

Irs1
5.3 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

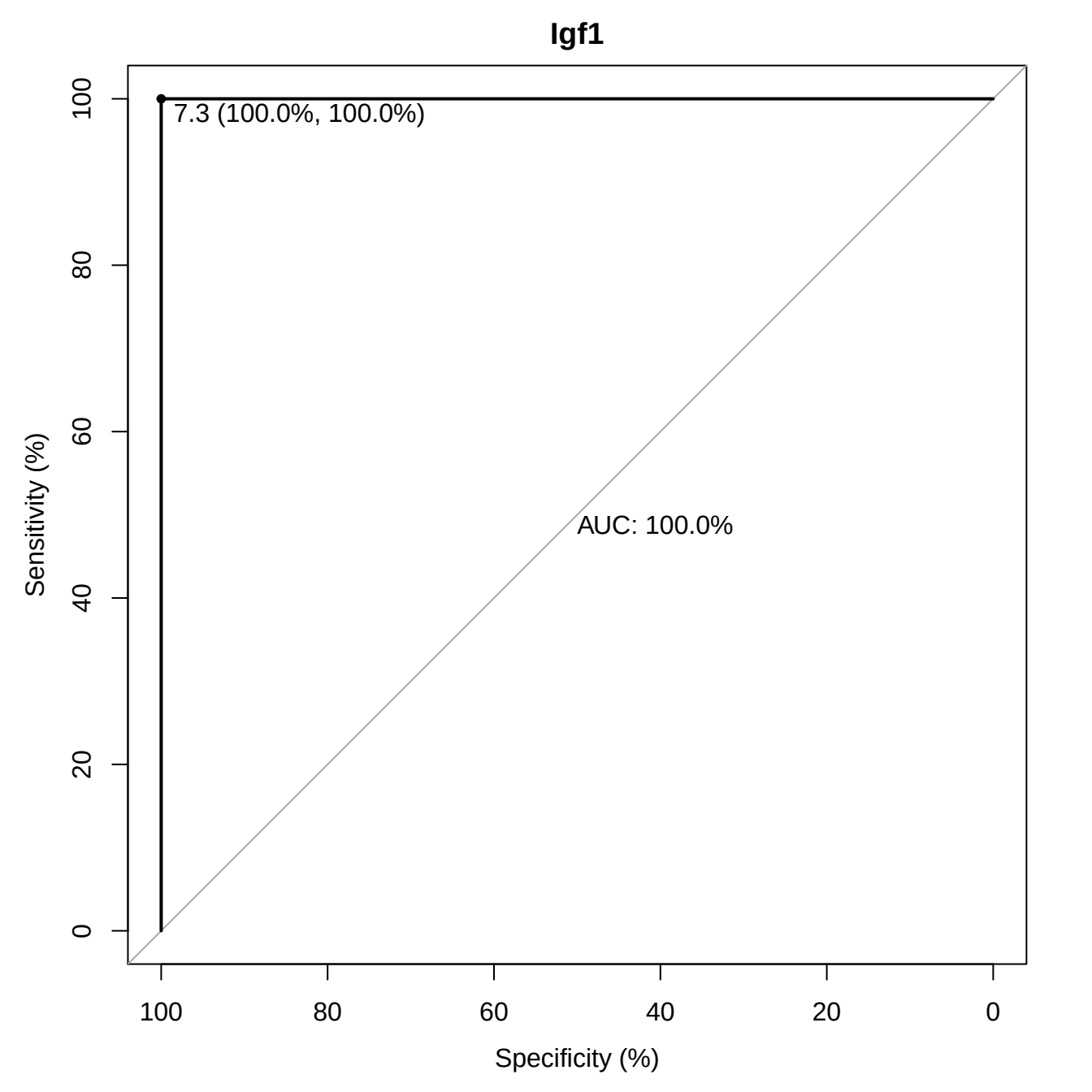

Nek2 p−value= 0.0357142857142857
10
9
8
7
Nek2
Normal
Tumor
Stage

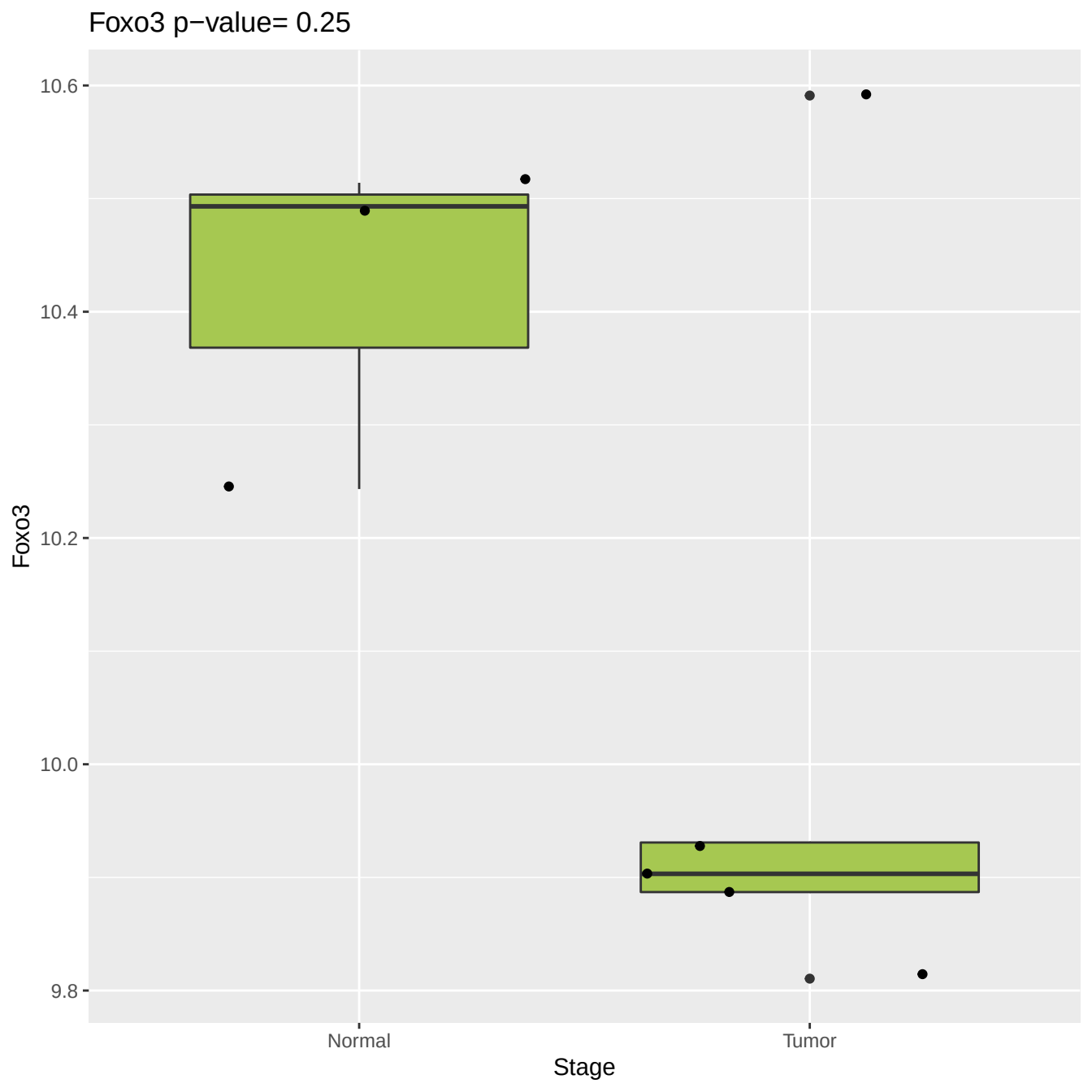

Nek2
8.8 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

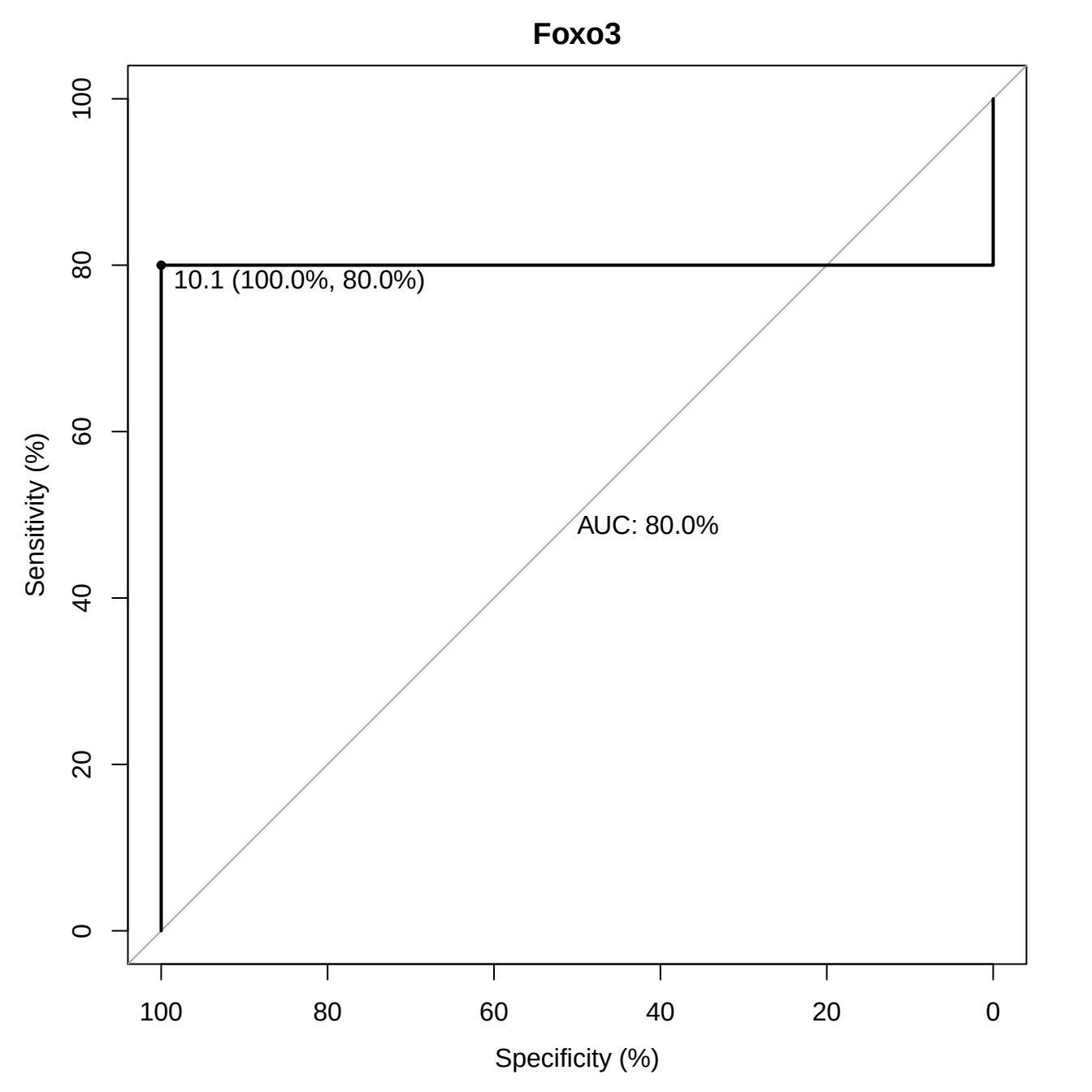

Irs1.1 p−value= 0.392857142857143
8.8
8.6
8.4
Irs1.1
Normal
Tumor
Stage

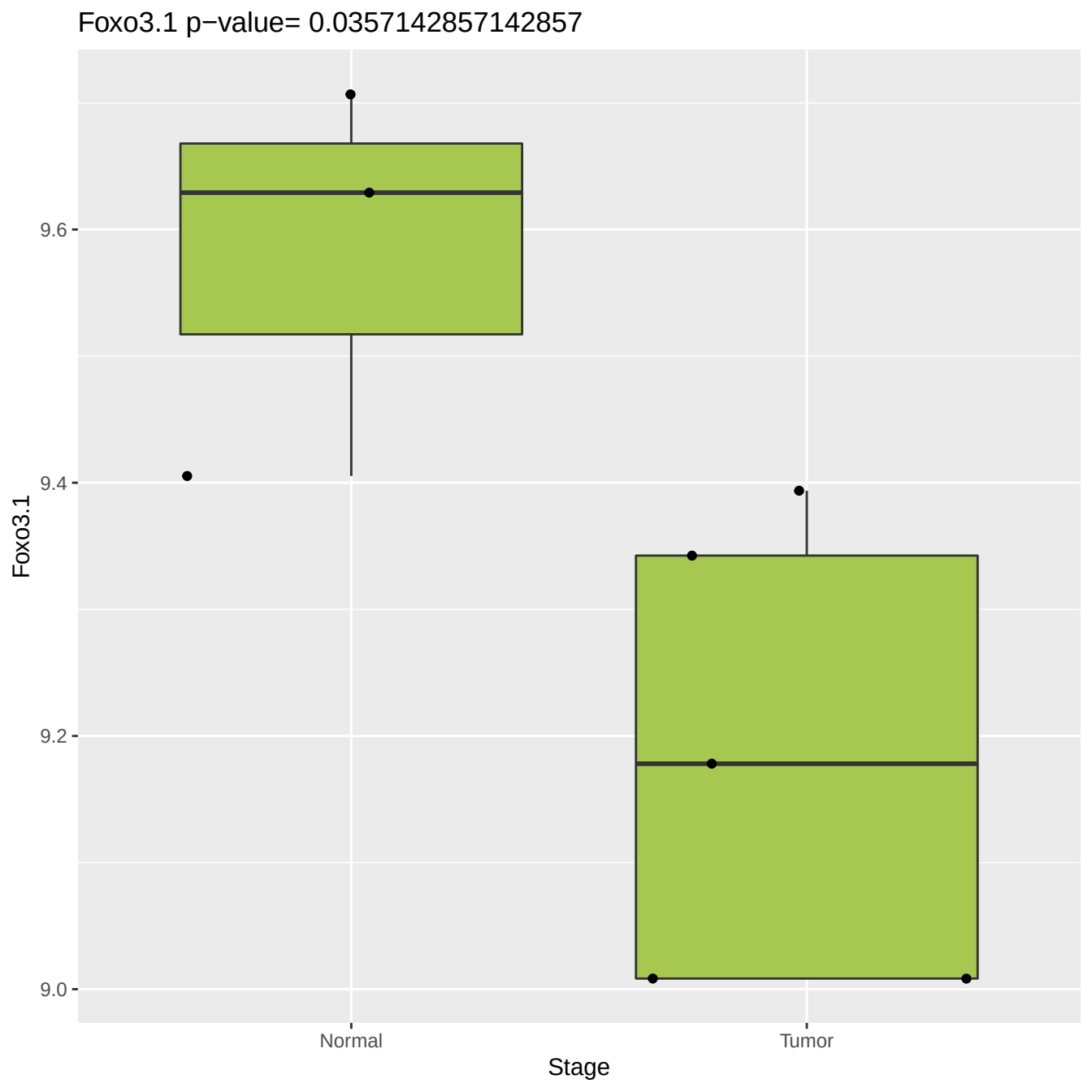

lrs1.1
Sensitivity (%)
100
80
60
40
20
0
8.5 (100.0%, 60.0%)
AUC: 73.3%
100
80
60
40
20
0
Specificity (%)

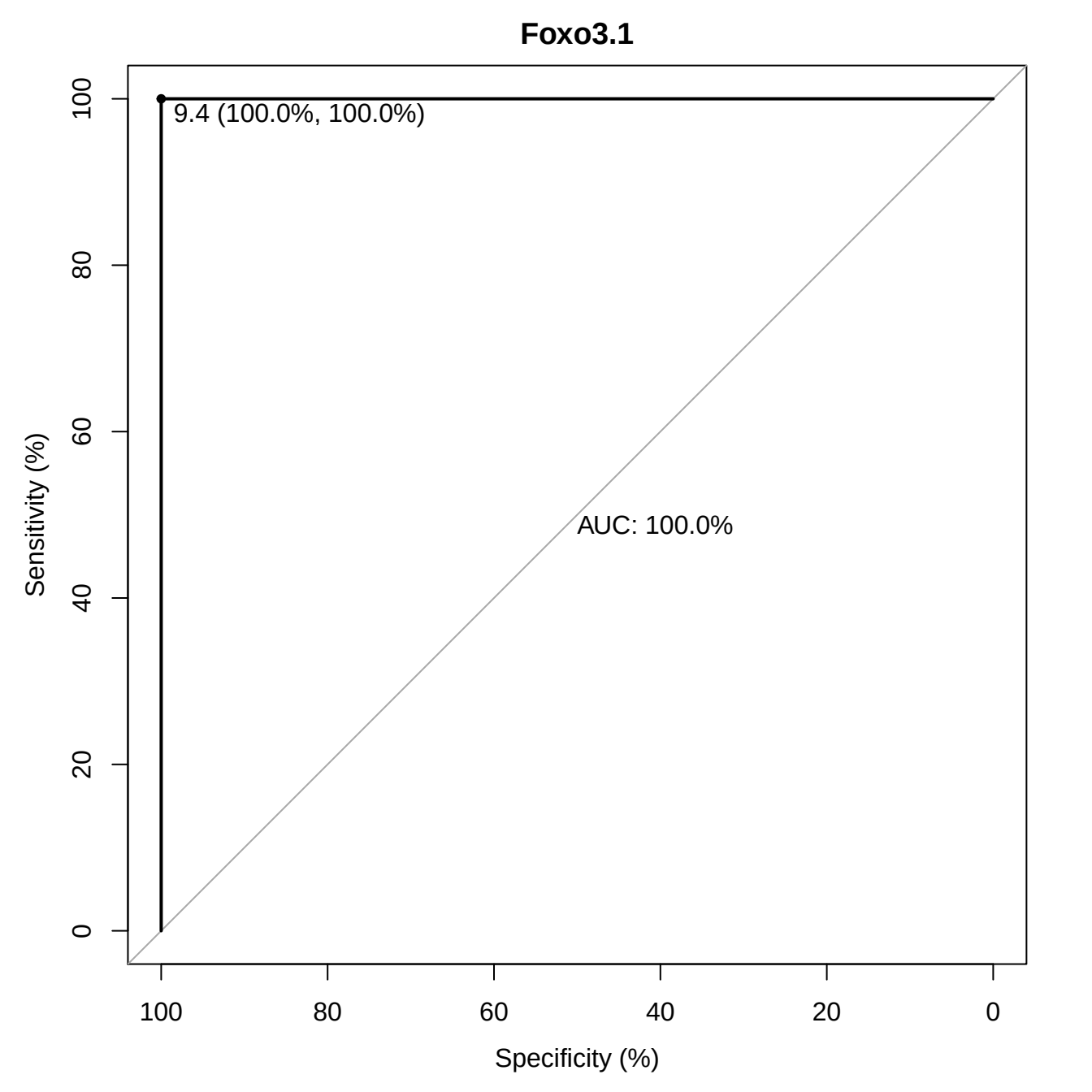

Igf1 p−value= 0.0357142857142857
8.0
7.5
7.0
Igf1
Normal
Tumor
Stage

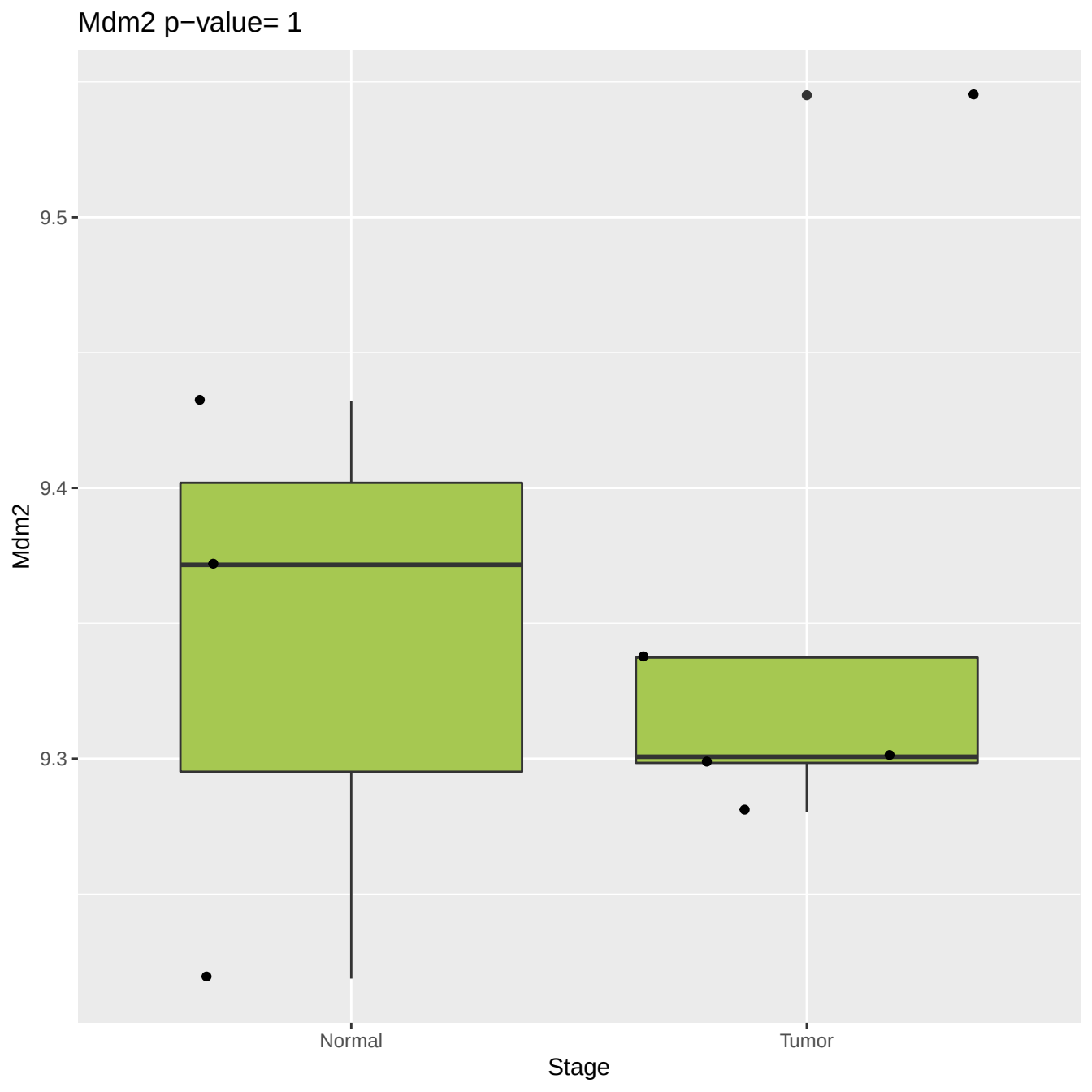

Igf1
7.3 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

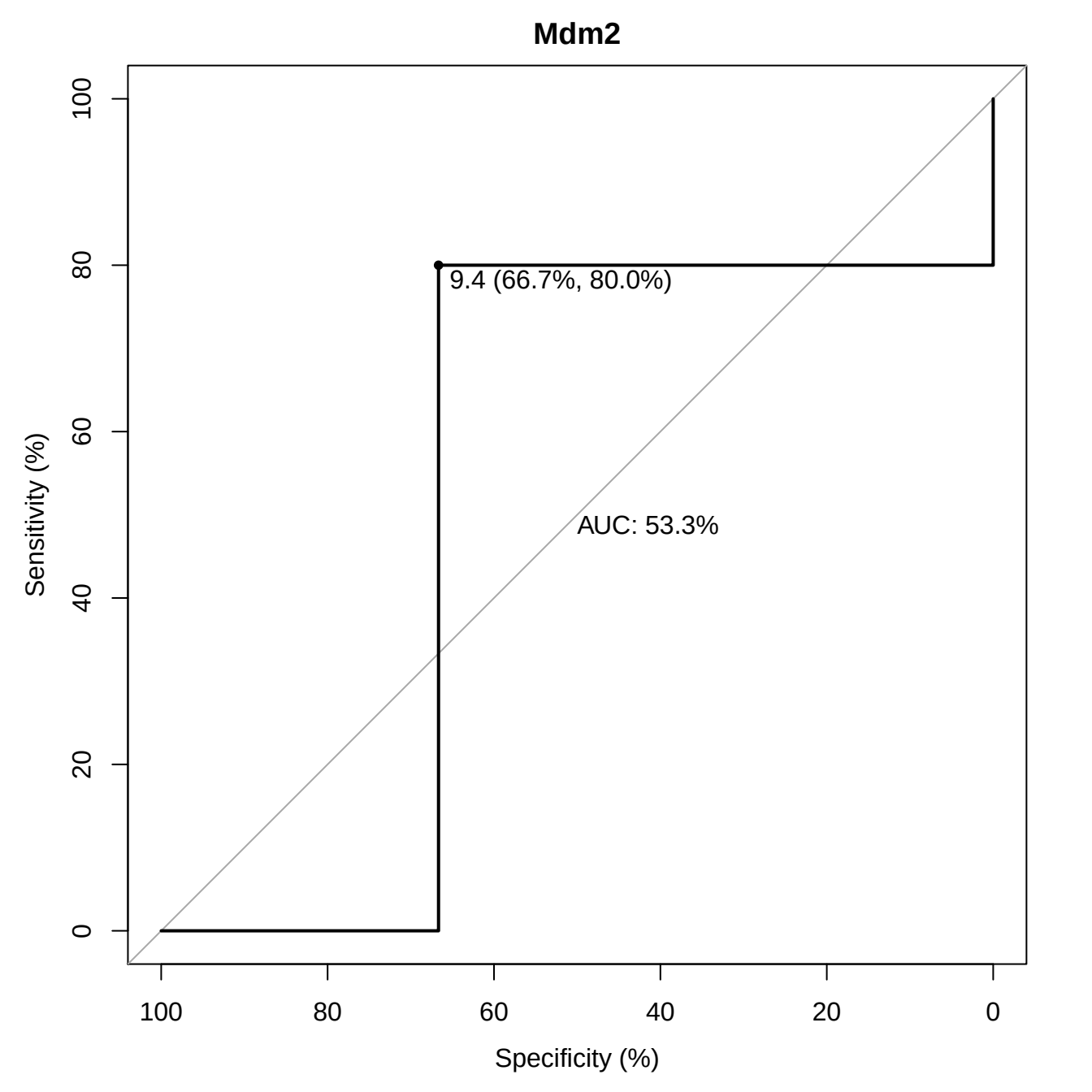

Foxo3 p−value= 0.25
10.6
10.4
10.2
10.0
9.8
Foxo3
Normal
Tumor
Stage

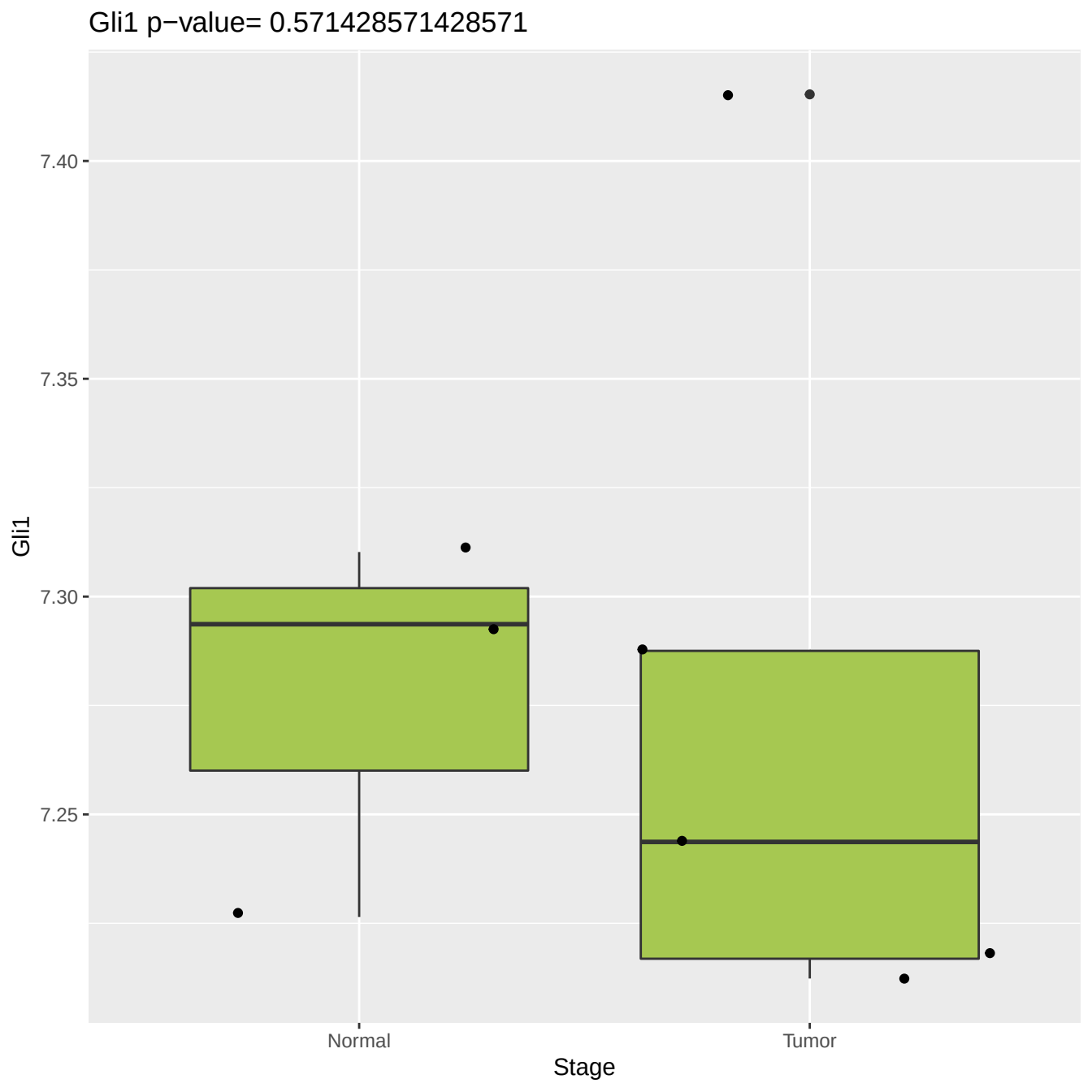

Foxo3
Sensitivity (%)
100
80
60
40
20
0
10.1 (100.0%, 80.0%)
AUC: 80.0%
100
80
60
40
20
0
Specificity (%)

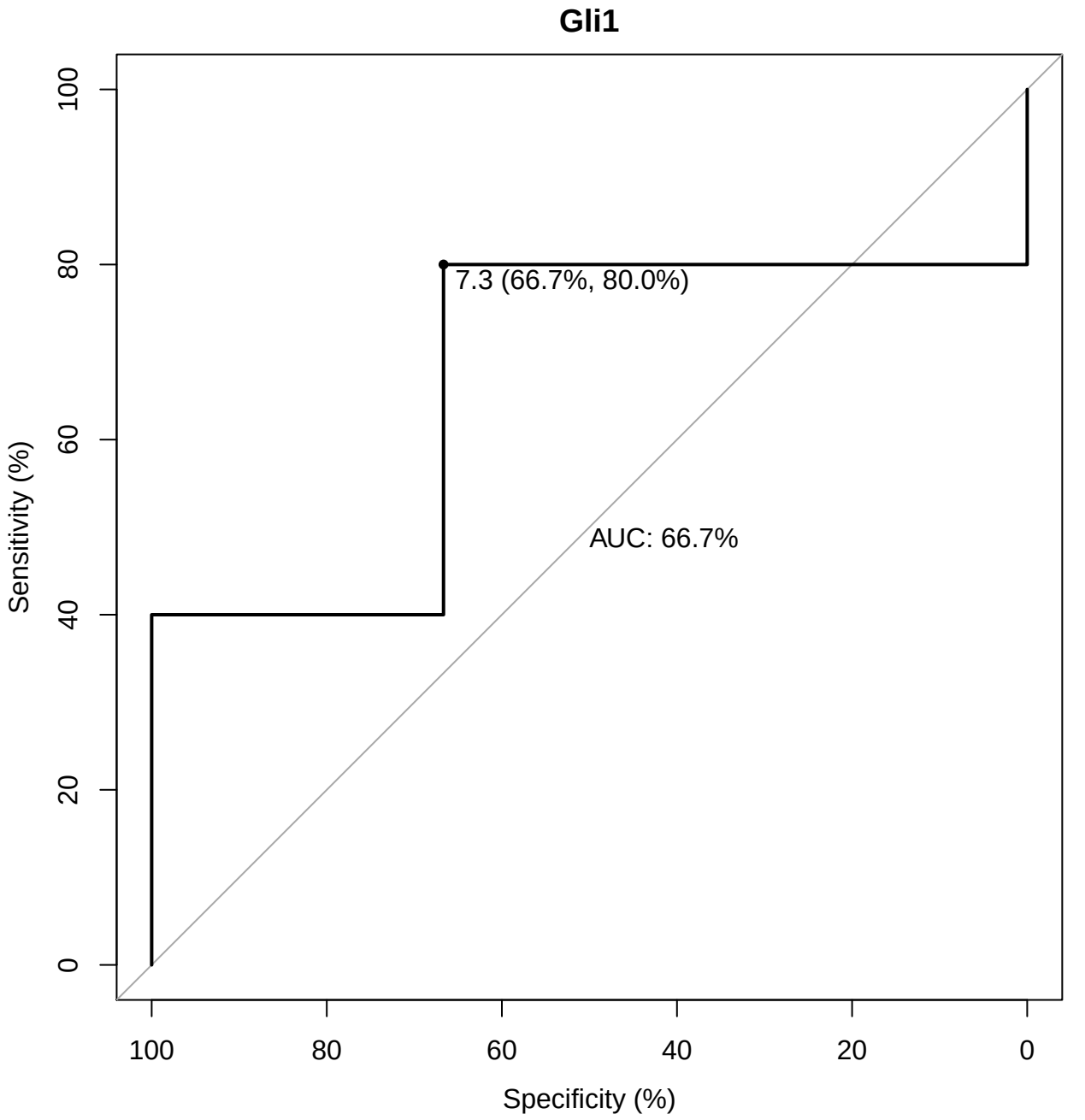

Foxo3.1 p−value= 0.0357142857142857
9.6
9.4
9.2
9.0
Foxo3.1
Normal
Tumor
Stage

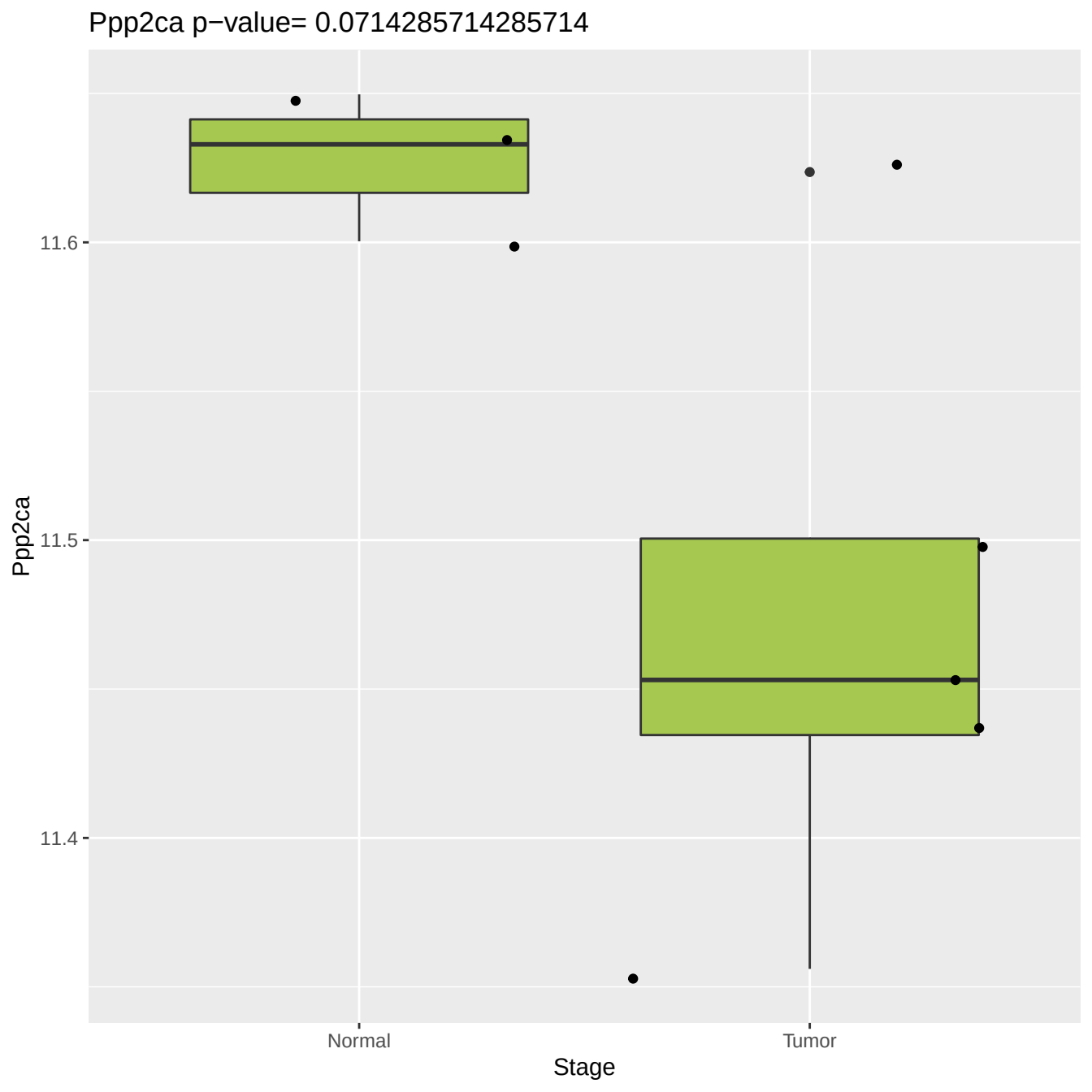

Foxo3.1
9.4 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

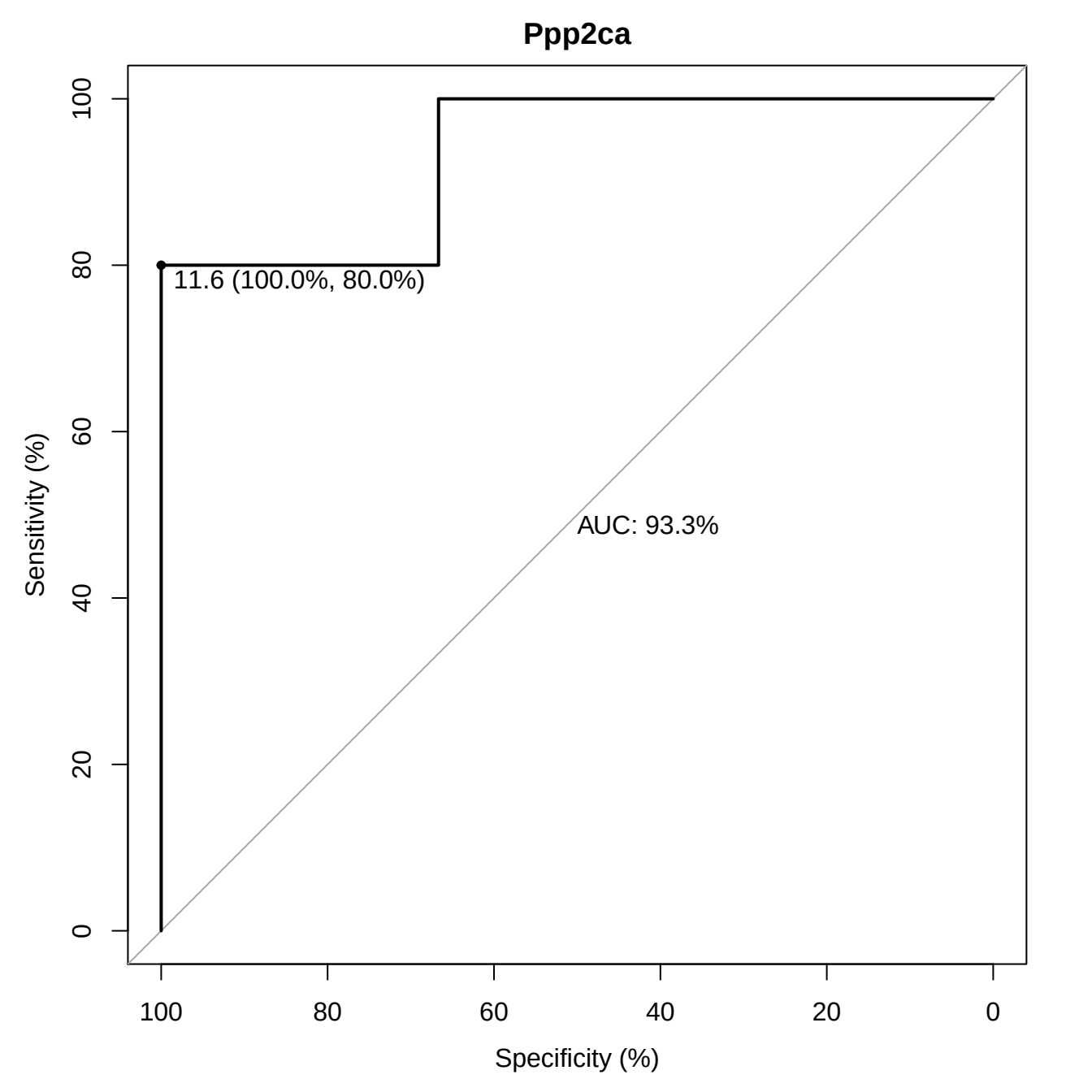

Mdm2 p−value= 1
9.5
9.4
9.3
Mdm2
Normal
Tumor
Stage

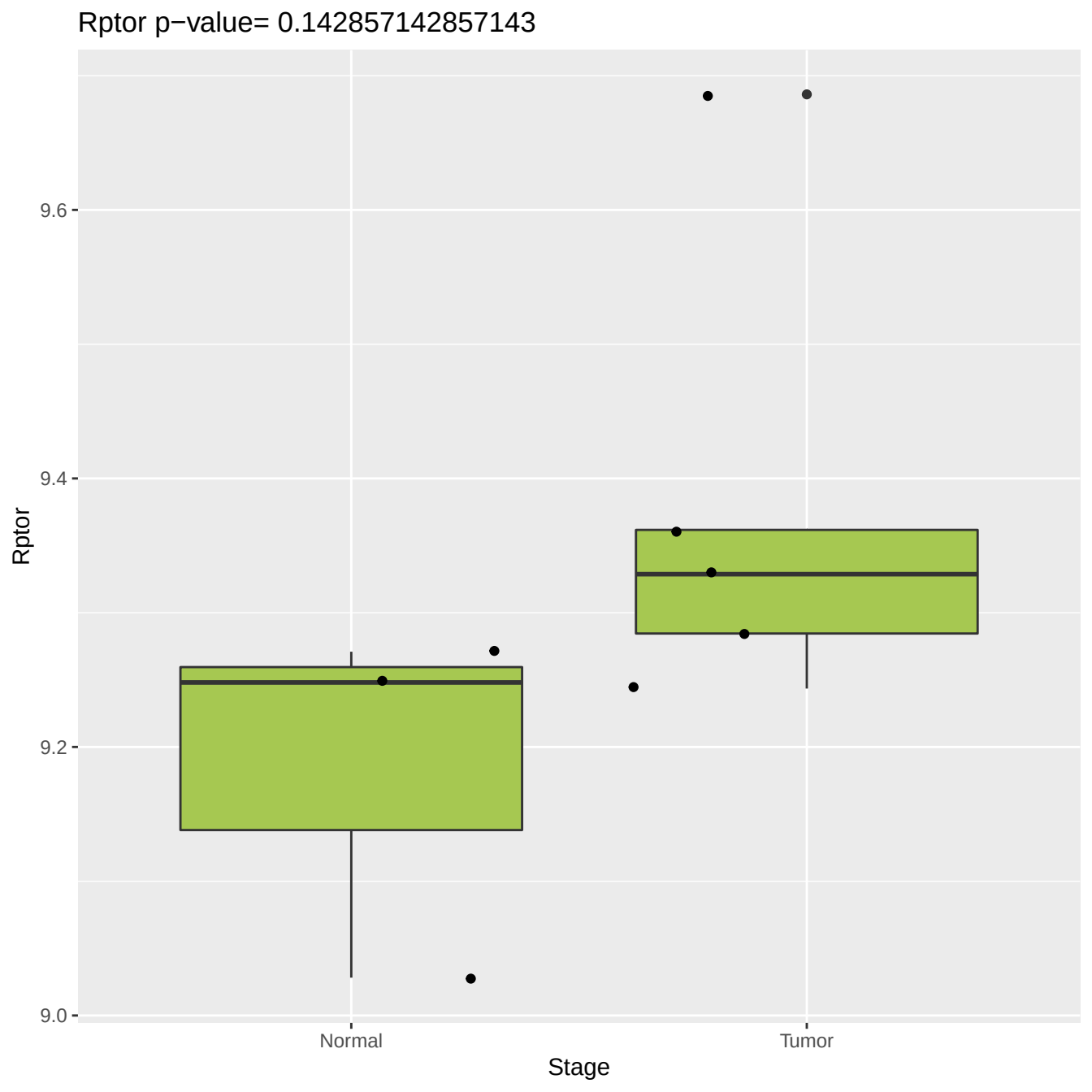

Mdm2
Sensitivity (%)
100
80
60
40
20
0
9.4 (66.7%, 80.0%)
AUC: 53.3%
100
80
60
40
20
0
Specificity (%)

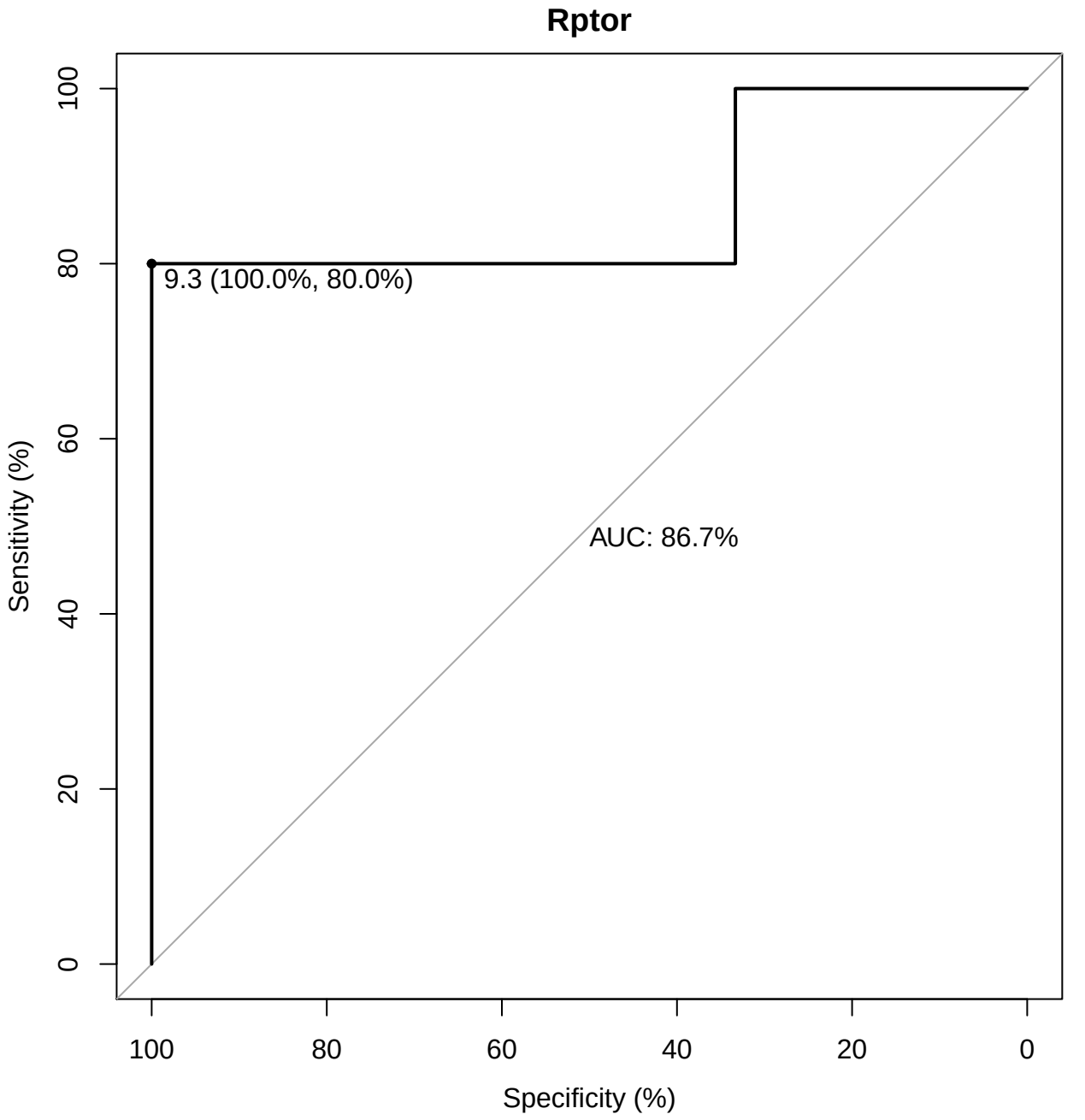

Gli1 p−value= 0.571428571428571
7.40
7.35
7.30
7.25
Gli1
Normal
Tumor
Stage

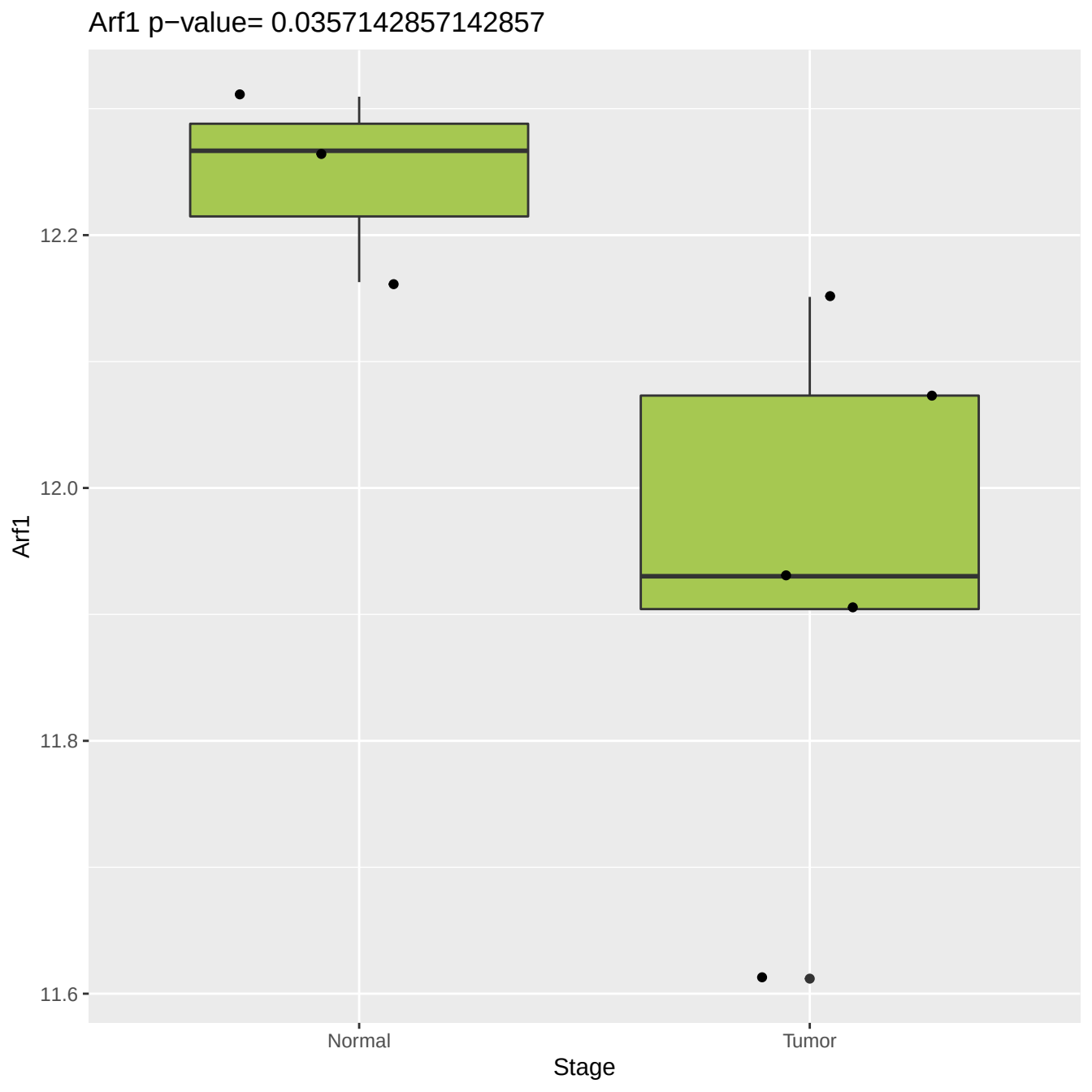

Gli1
Sensitivity (%)
100
80
60
40
20
0
7.3 (66.7%, 80.0%)
AUC: 66.7%
100
80
60
40
20
0
Specificity (%)

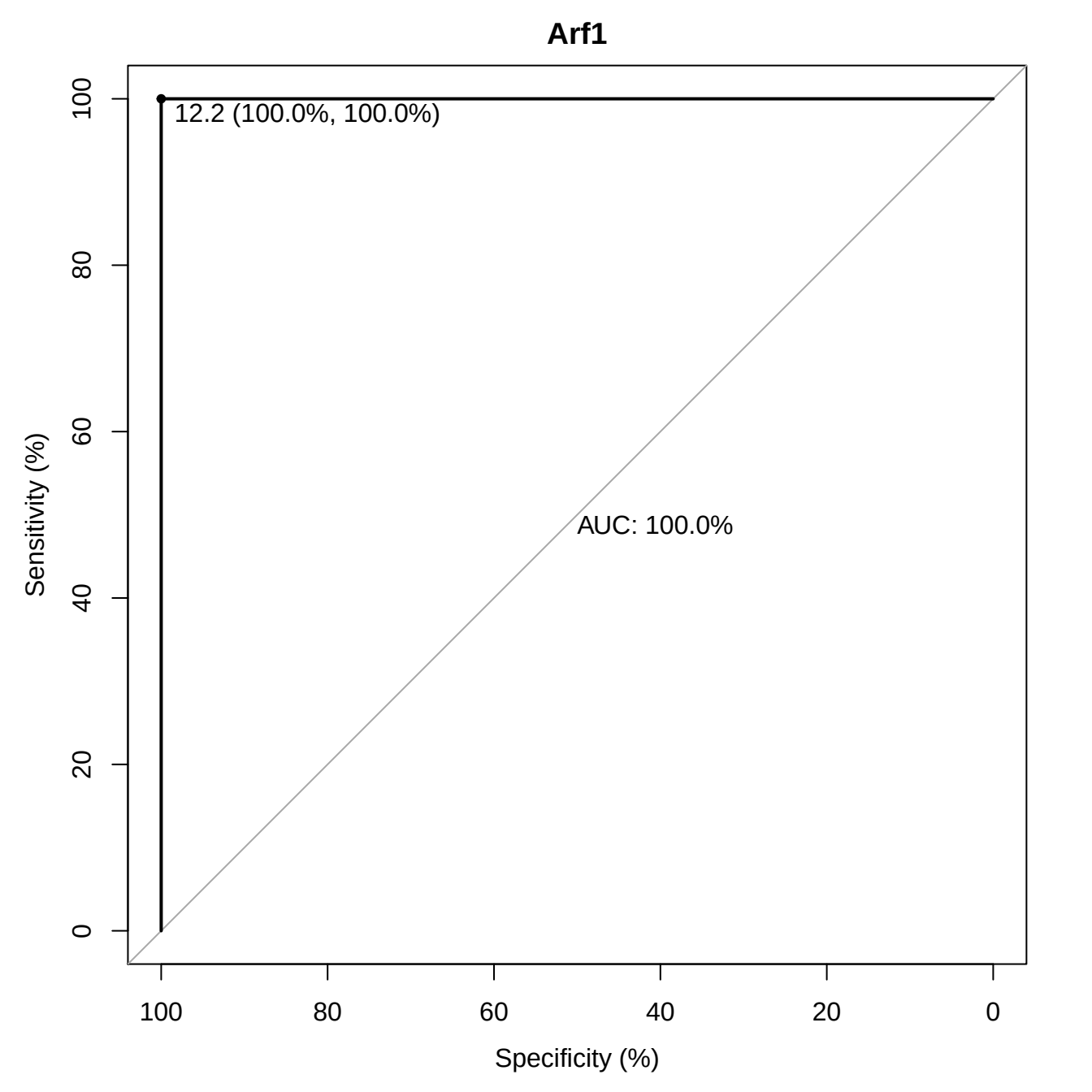

Ppp2ca p−value= 0.0714285714285714
11.6
11.5
11.4
Ppp2ca
Normal
Tumor
Stage

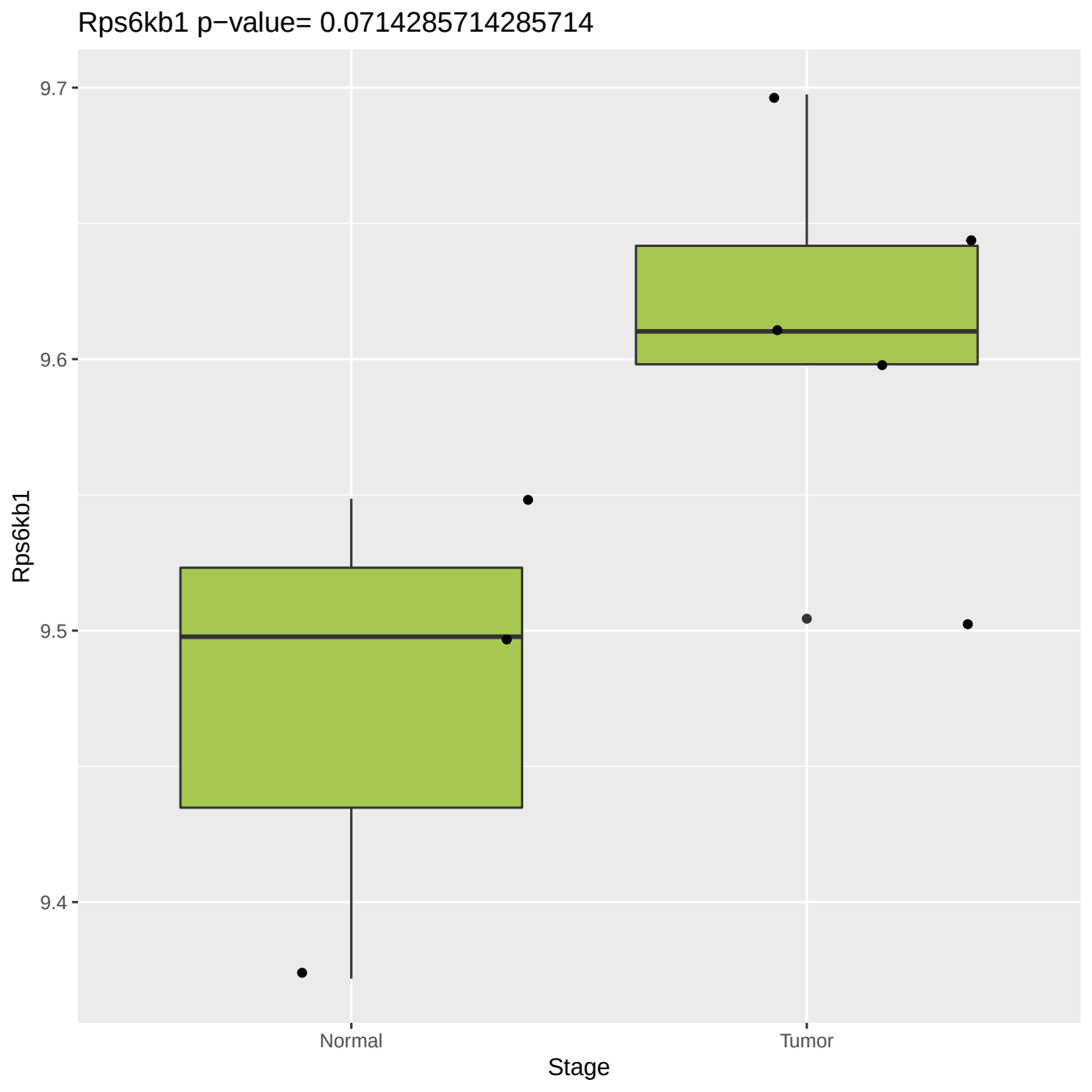

Ppp2ca
Sensitivity (%)
100
80
60
40
20
0
11.6 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

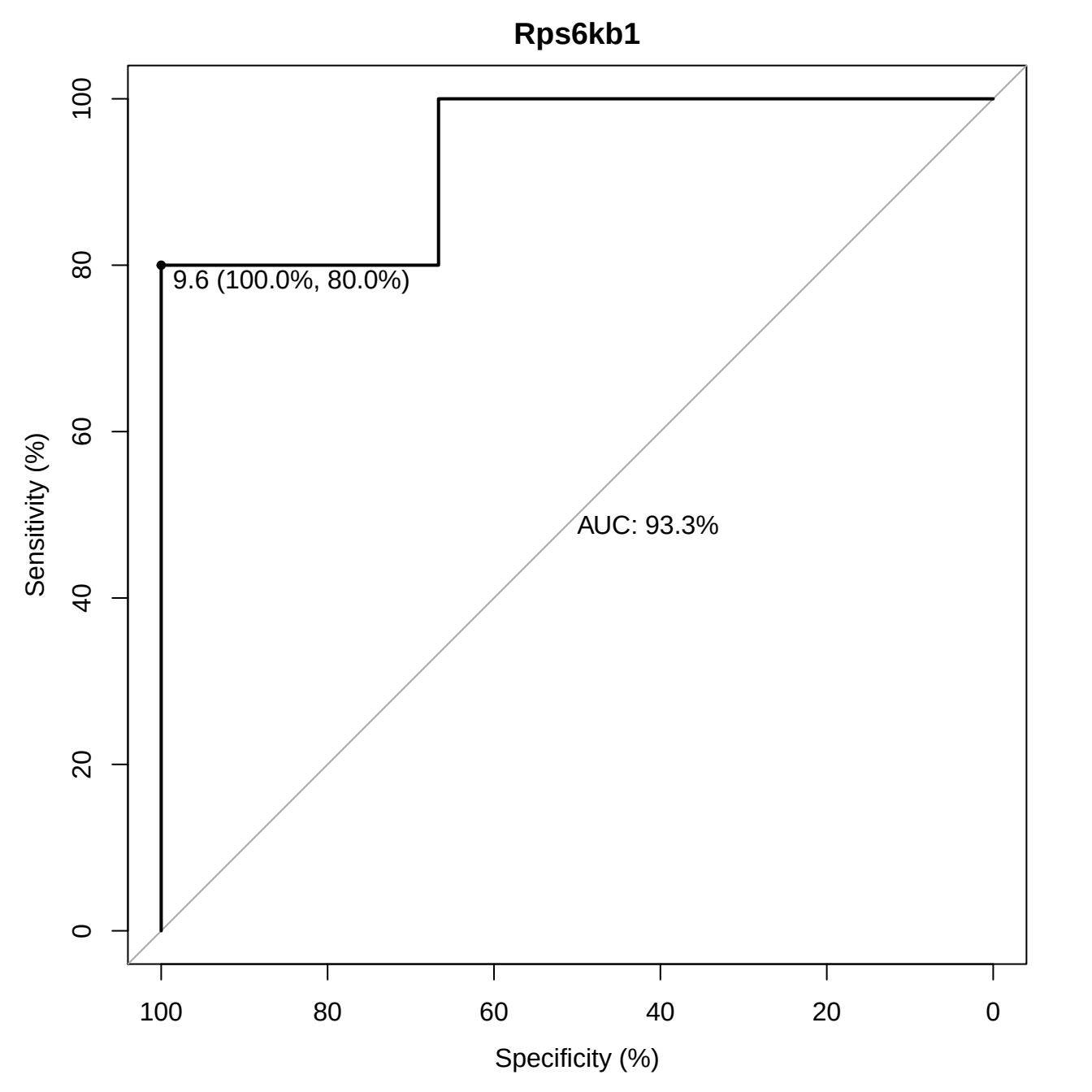

Rptor p−value= 0.142857142857143
9.6
9.4
9.2
9.0
Rptor
Normal
Tumor
Stage

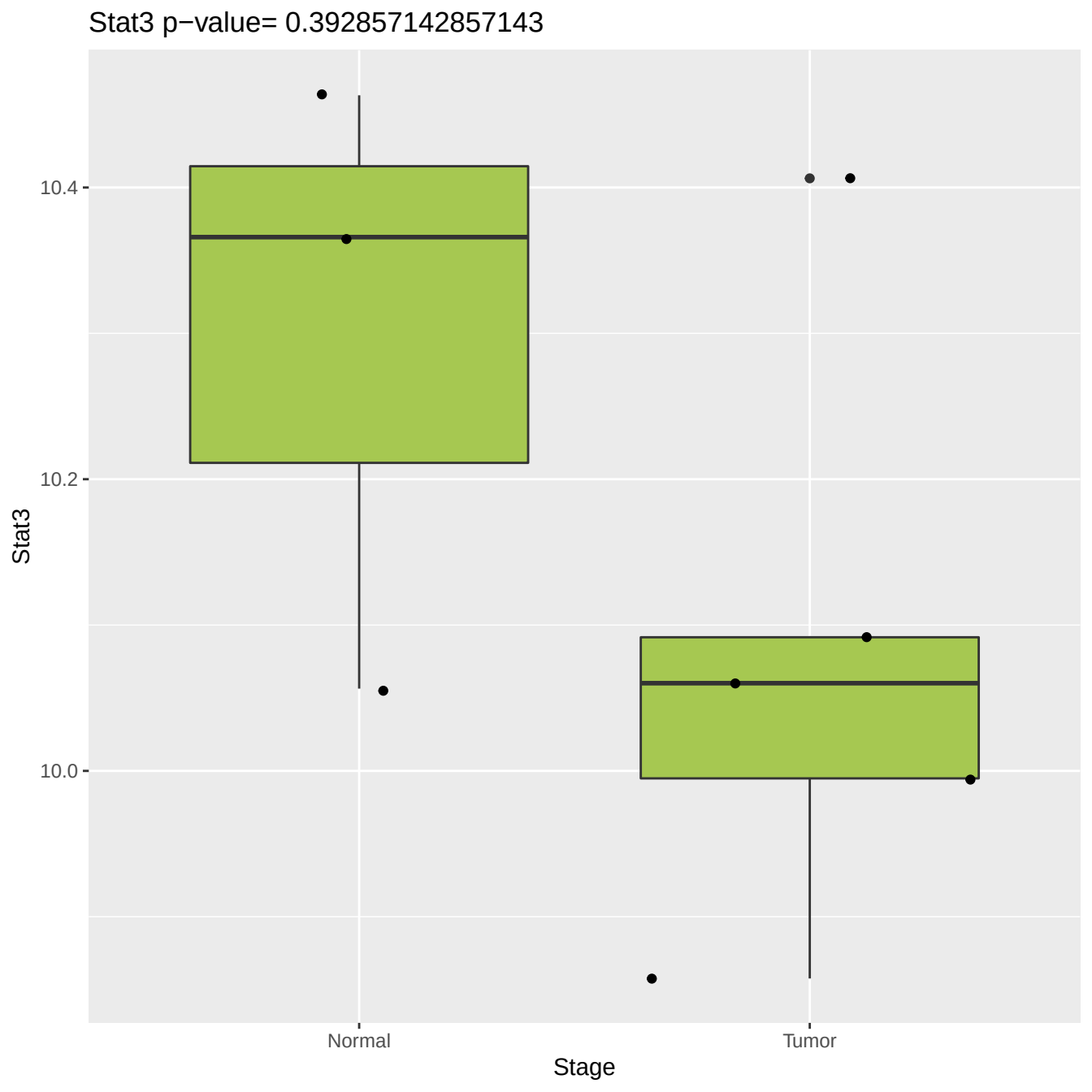

Rptor
Sensitivity (%)
100
80
60
40
20
0
9.3 (100.0%, 80.0%)
AUC: 86.7%
100
80
60
40
20
0
Specificity (%)

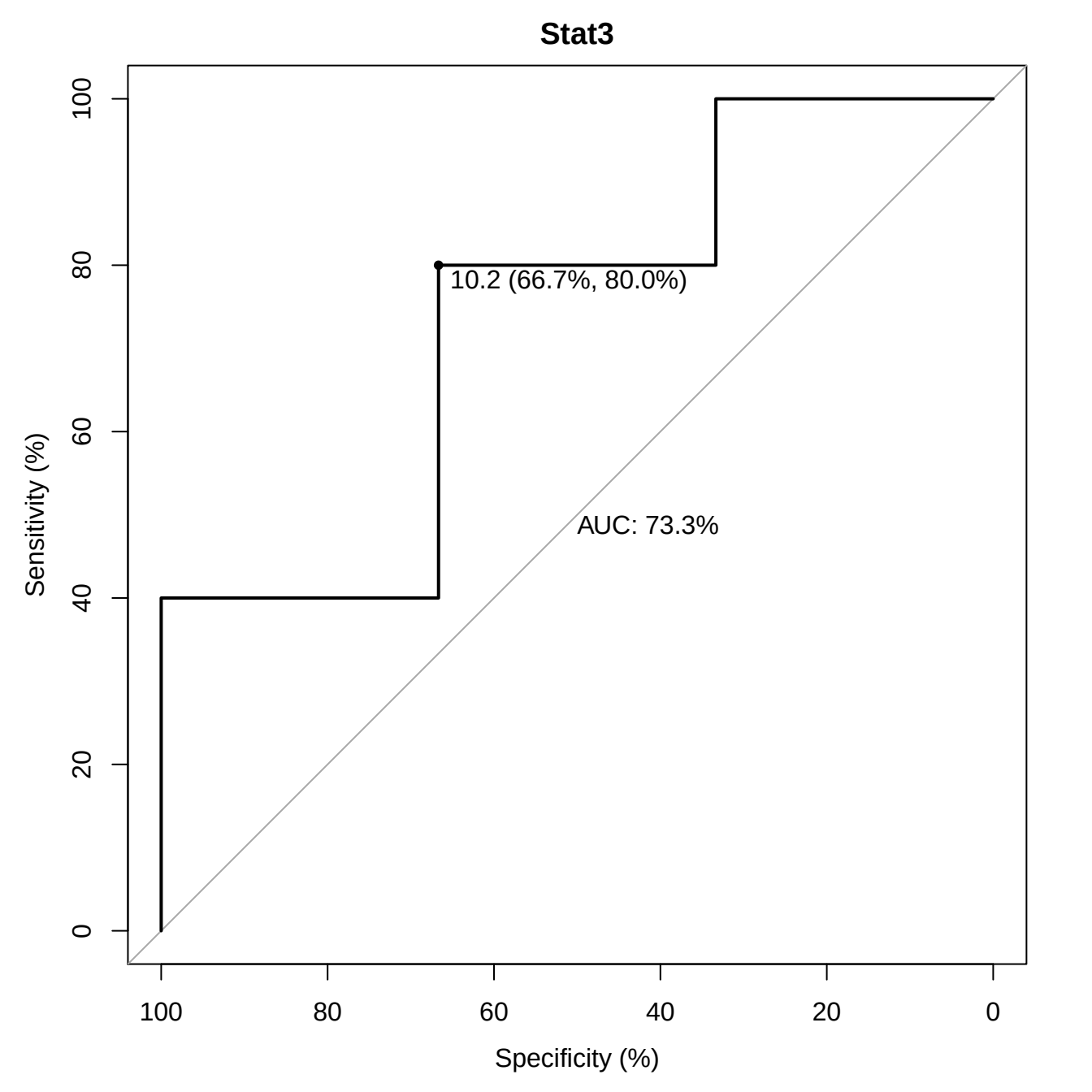

Arf1 p−value= 0.0357142857142857
12.2
12.0
11.8
11.6
Arf1
Normal
Tumor
Stage

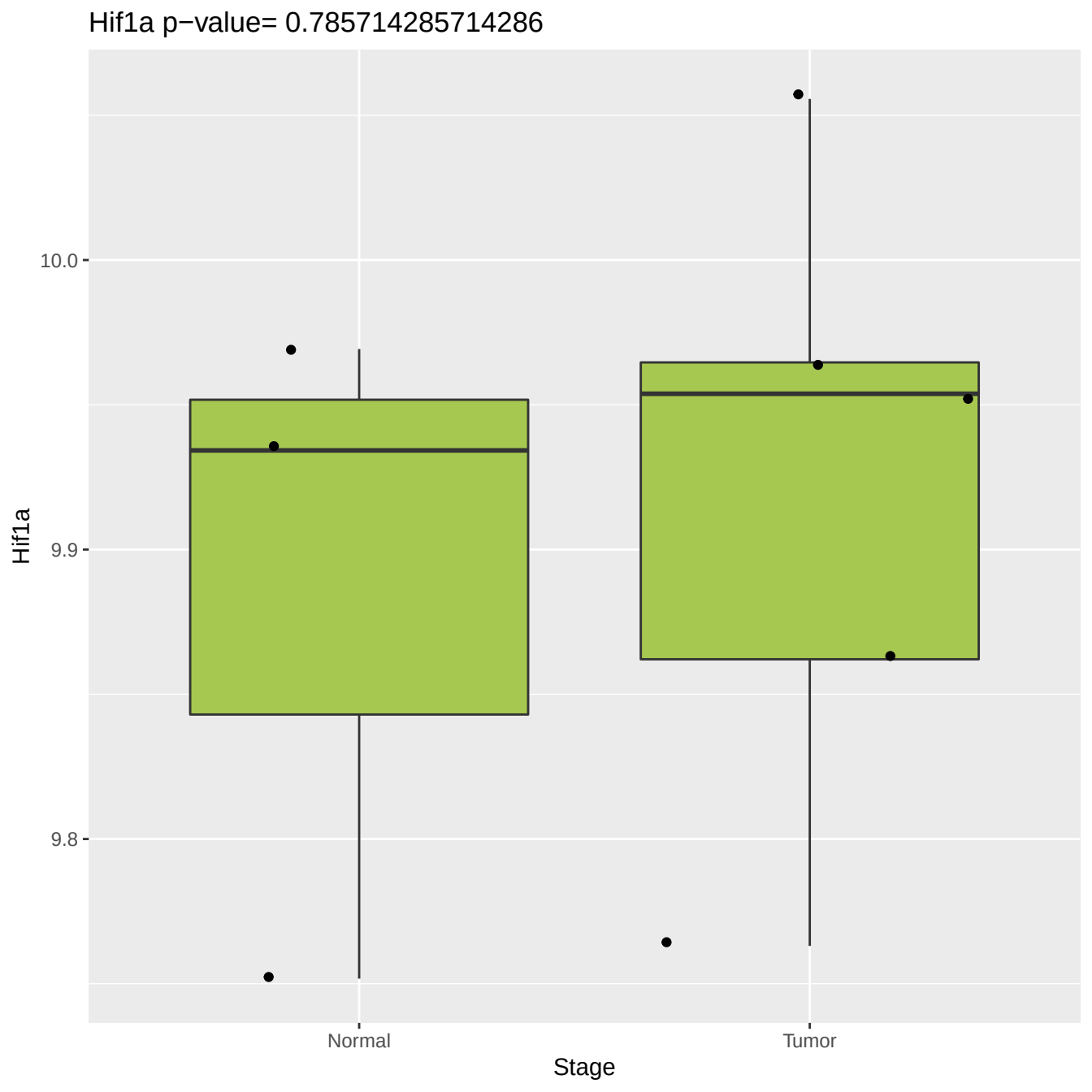

Arf1
12.2 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

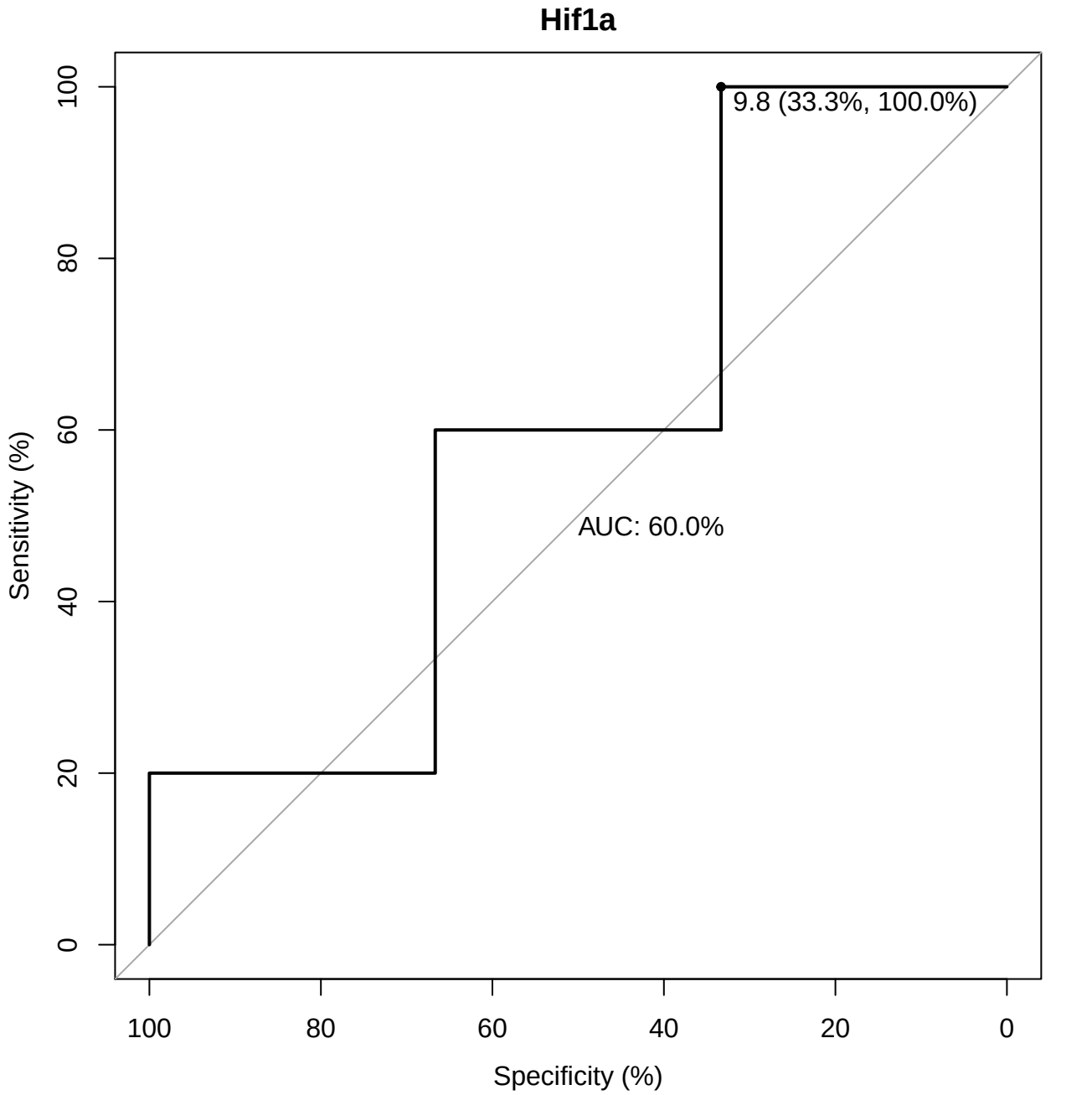

Rps6kb1 p−value= 0.0714285714285714
9.7
9.6
9.5
9.4
Rps6kb1
Normal
Tumor
Stage

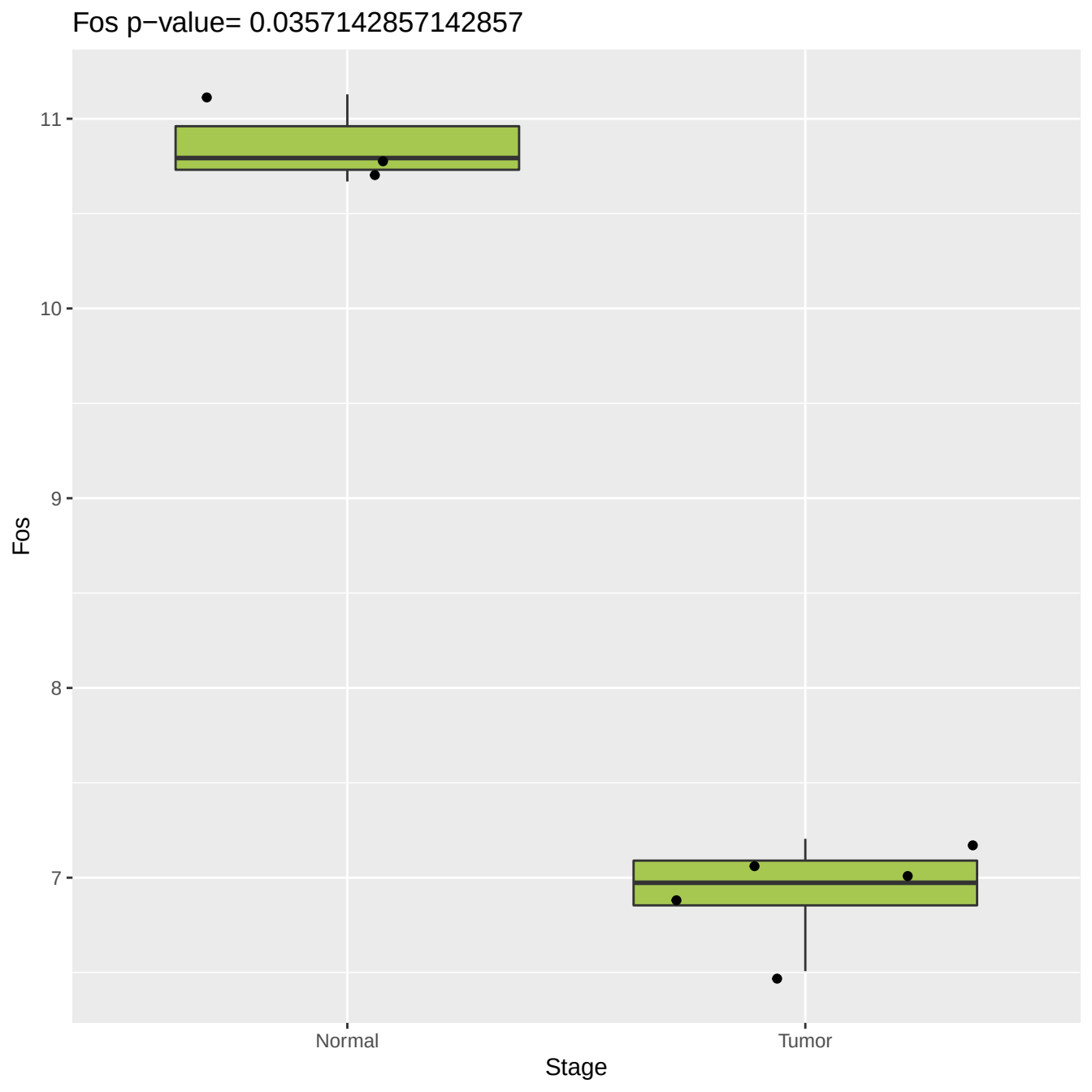

Rps6kb1
Sensitivity (%)
100
80
60
40
20
0
9.6 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

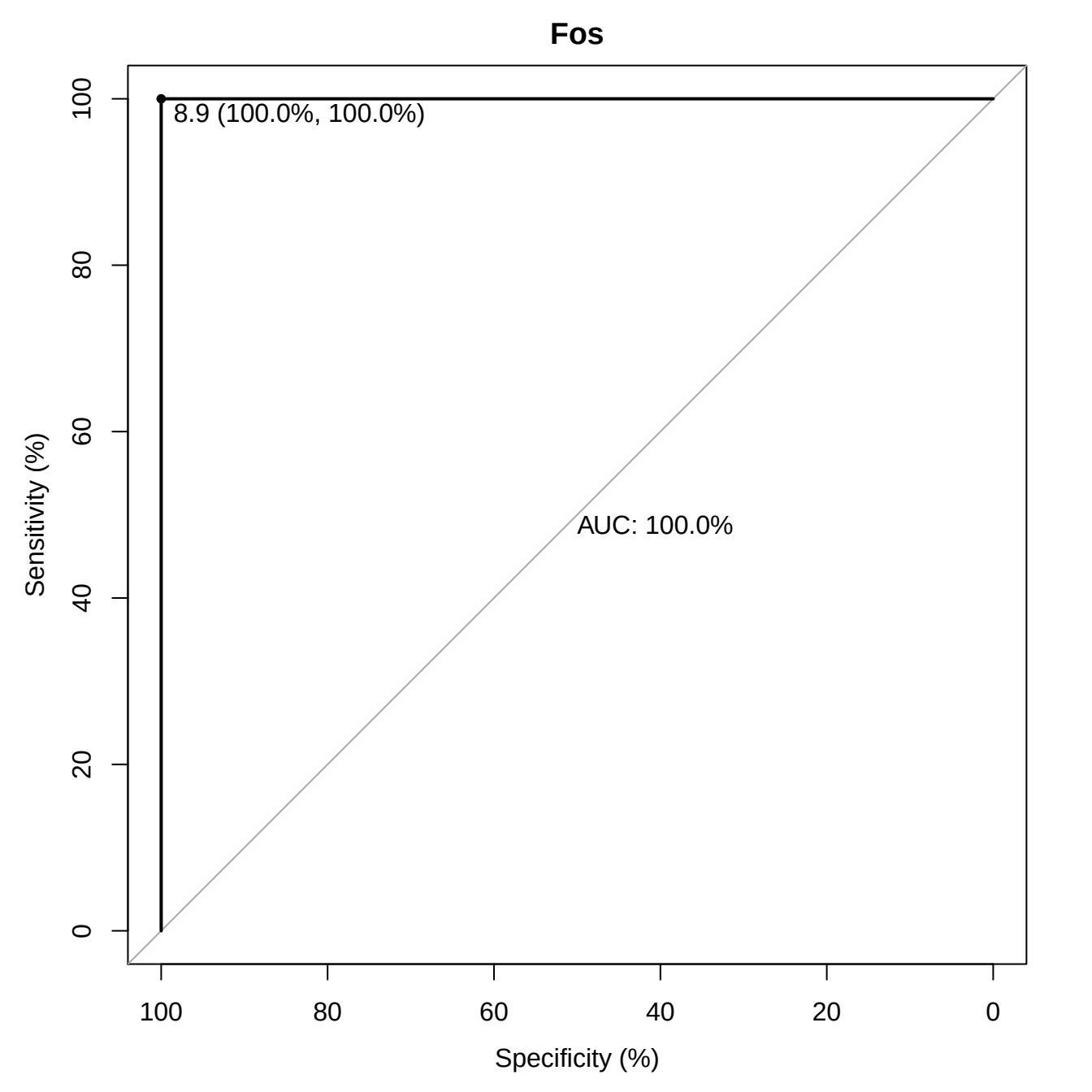

Stat3 p−value= 0.392857142857143
10.4
10.2
10.0
Stat3
Normal
Tumor
Stage

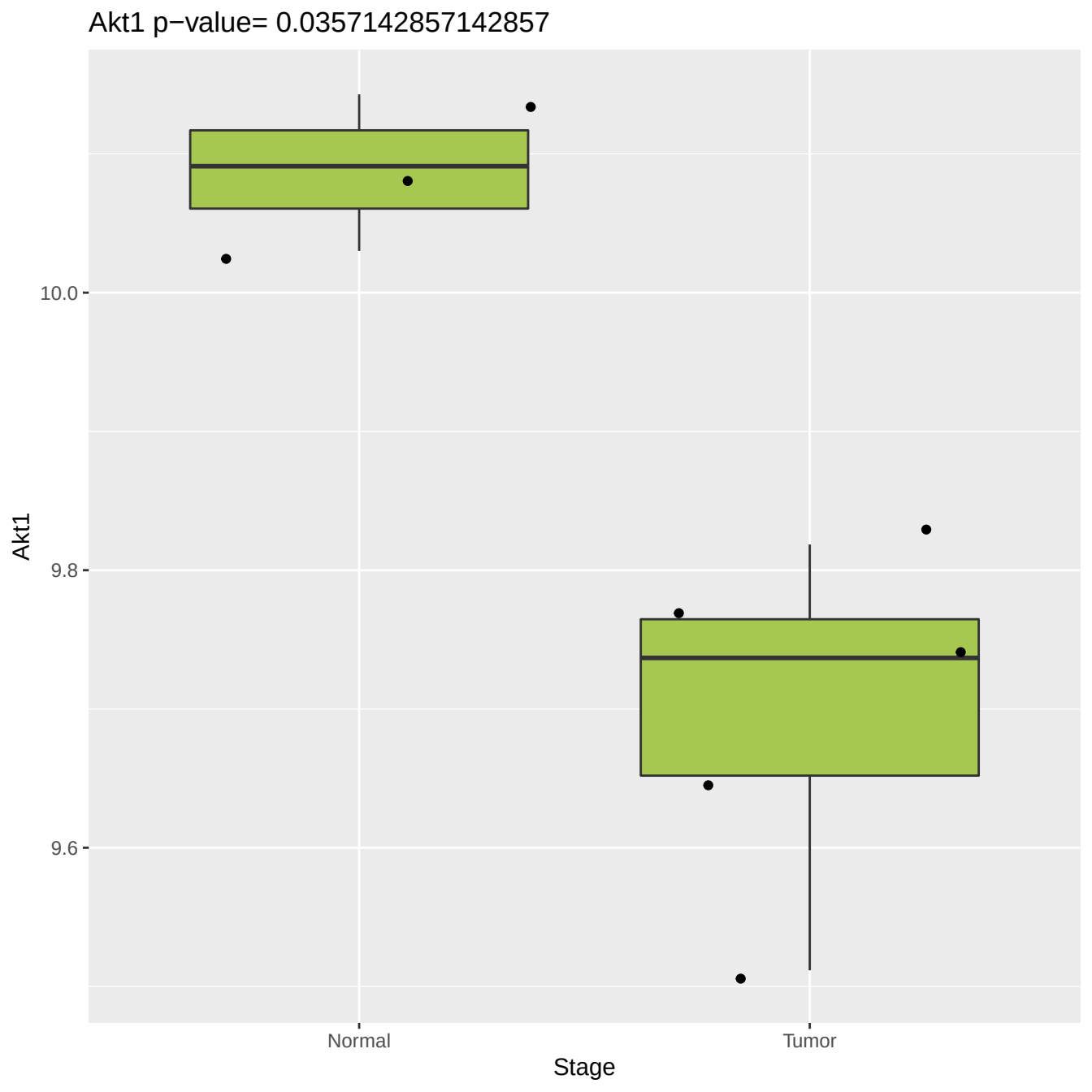

Stat3
Sensitivity (%)
100
80
60
40
20
0
10.2 (66.7%, 80.0%)
AUC: 73.3%
100
80
60
40
20
0
Specificity (%)

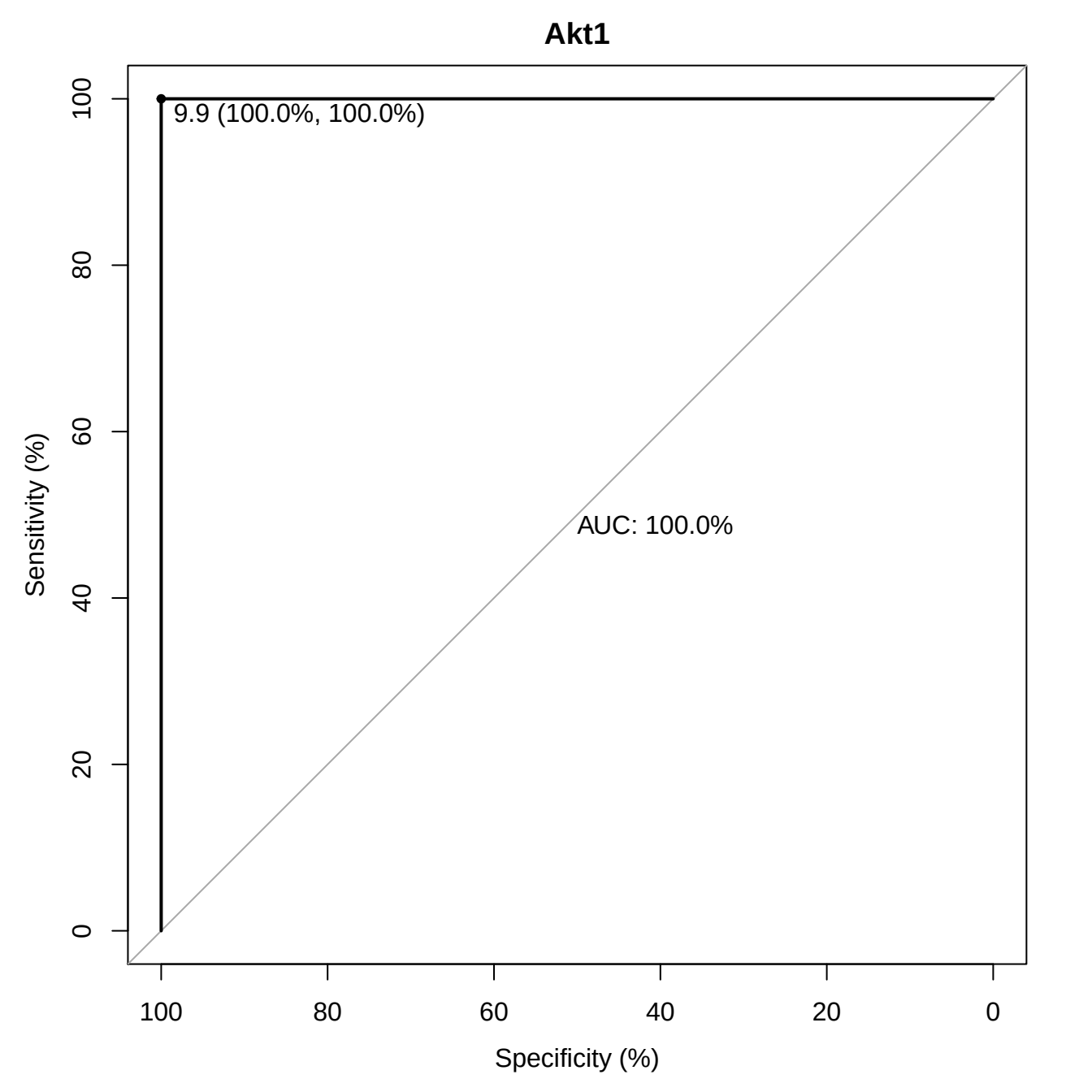

Hif1a p−value= 0.785714285714286
10.0
9.9
9.8
Hif1a
Normal
Tumor
Stage

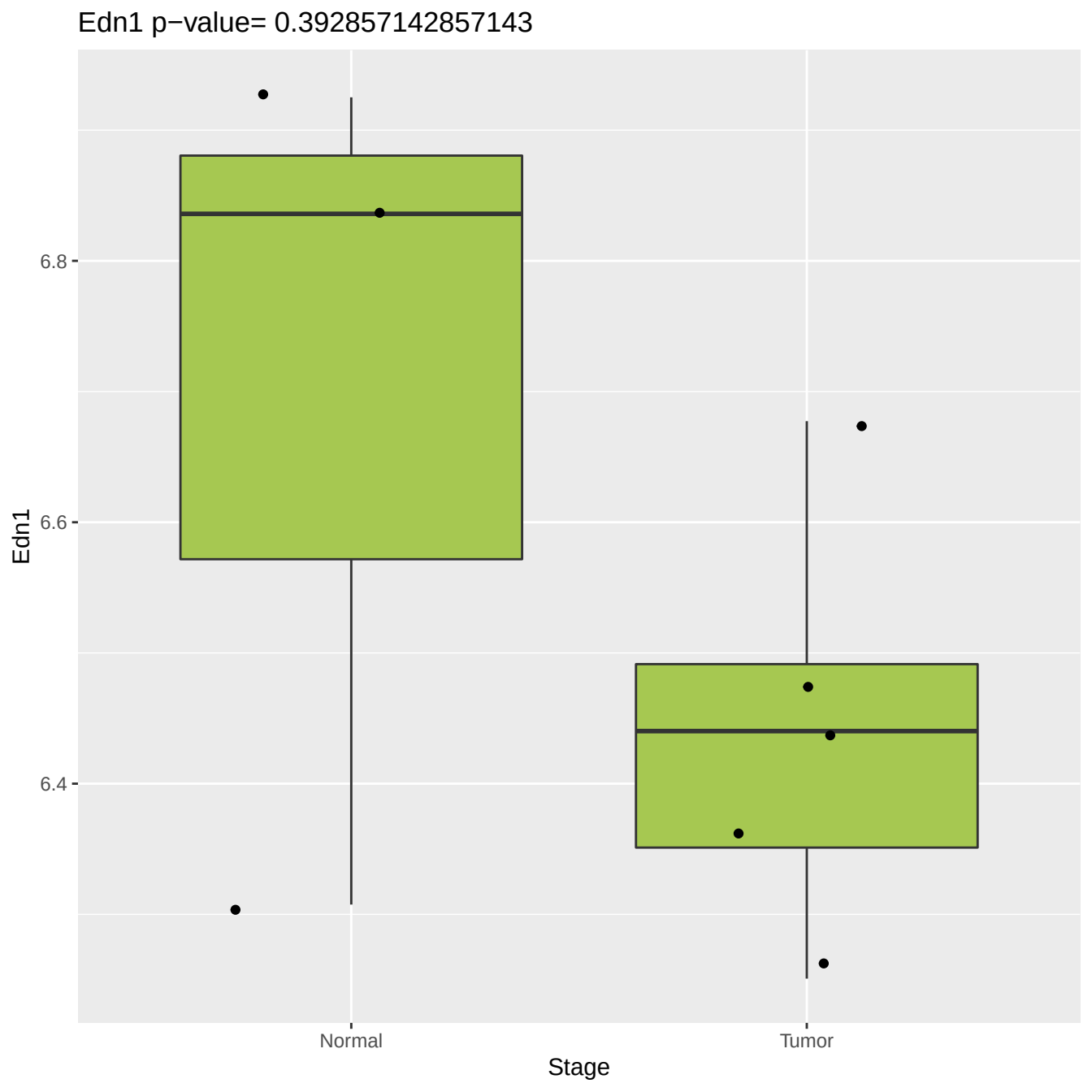

Hif1a
9.8 (33.3%, 100.0%)
AUC: 60.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

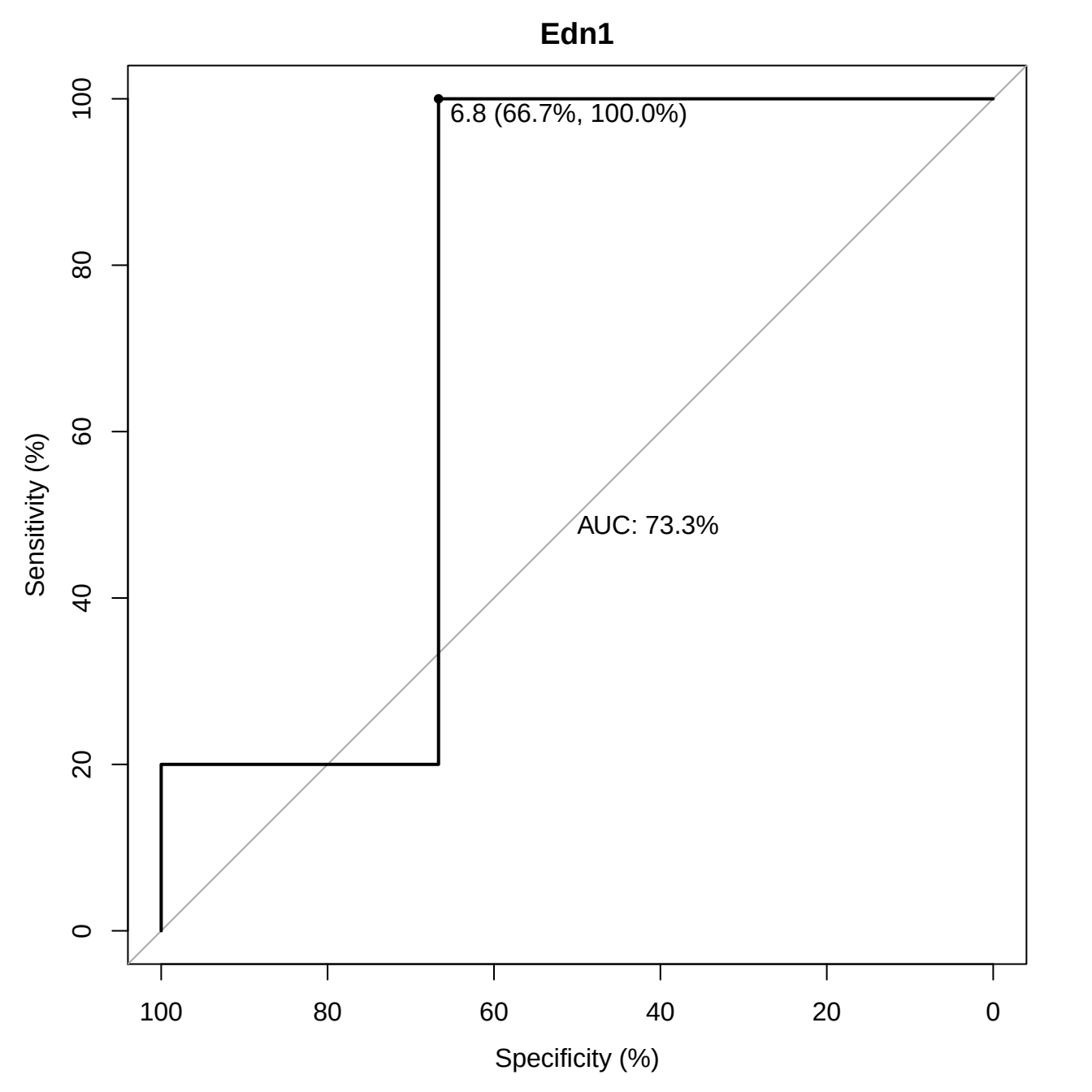

Fos p−value= 0.0357142857142857
11
10
9
8
7
Fos
Normal
Tumor
Stage

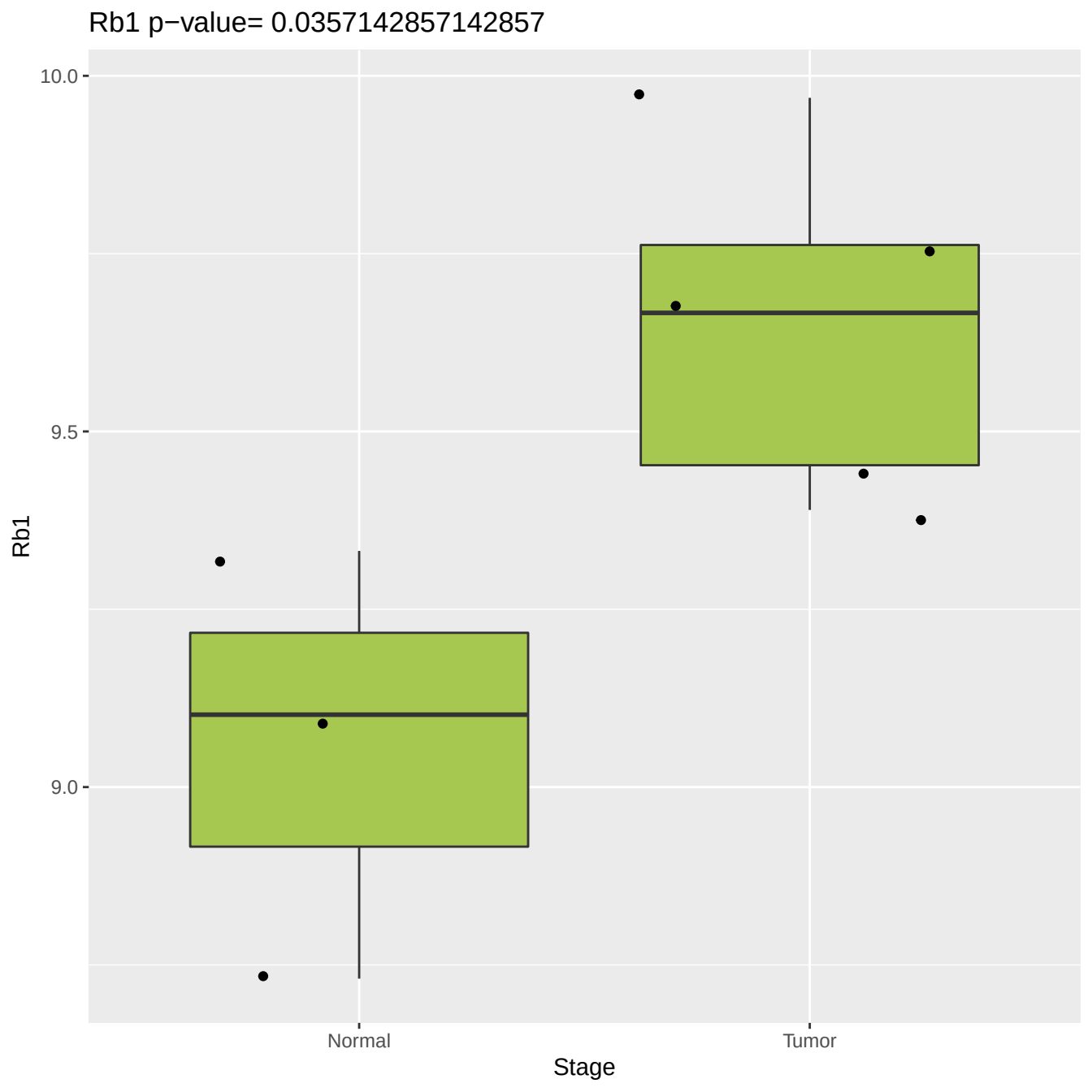

Fos
8.9 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

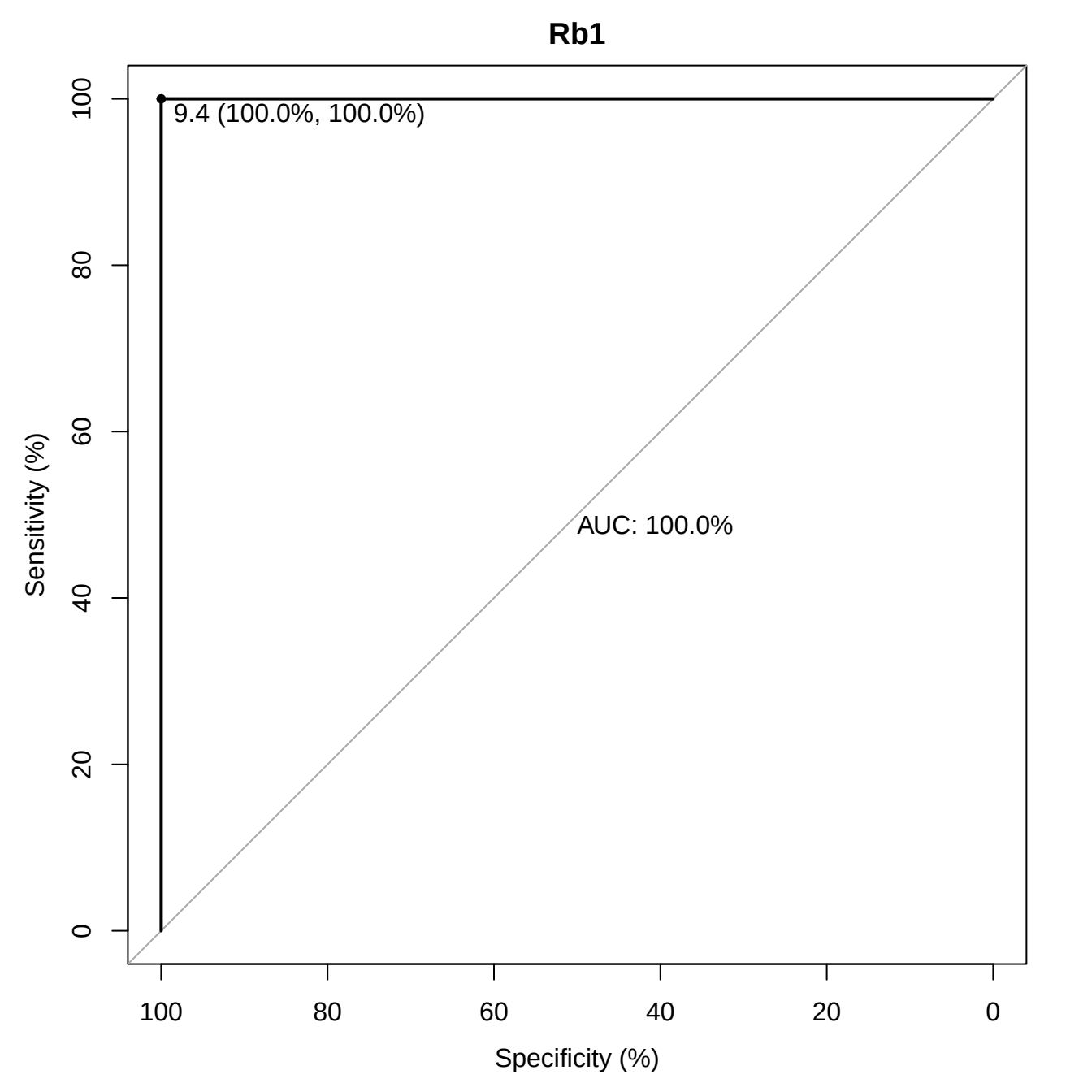

Akt1 p−value= 0.0357142857142857
10.0
9.8
9.6
Akt1
Normal
Tumor
Stage

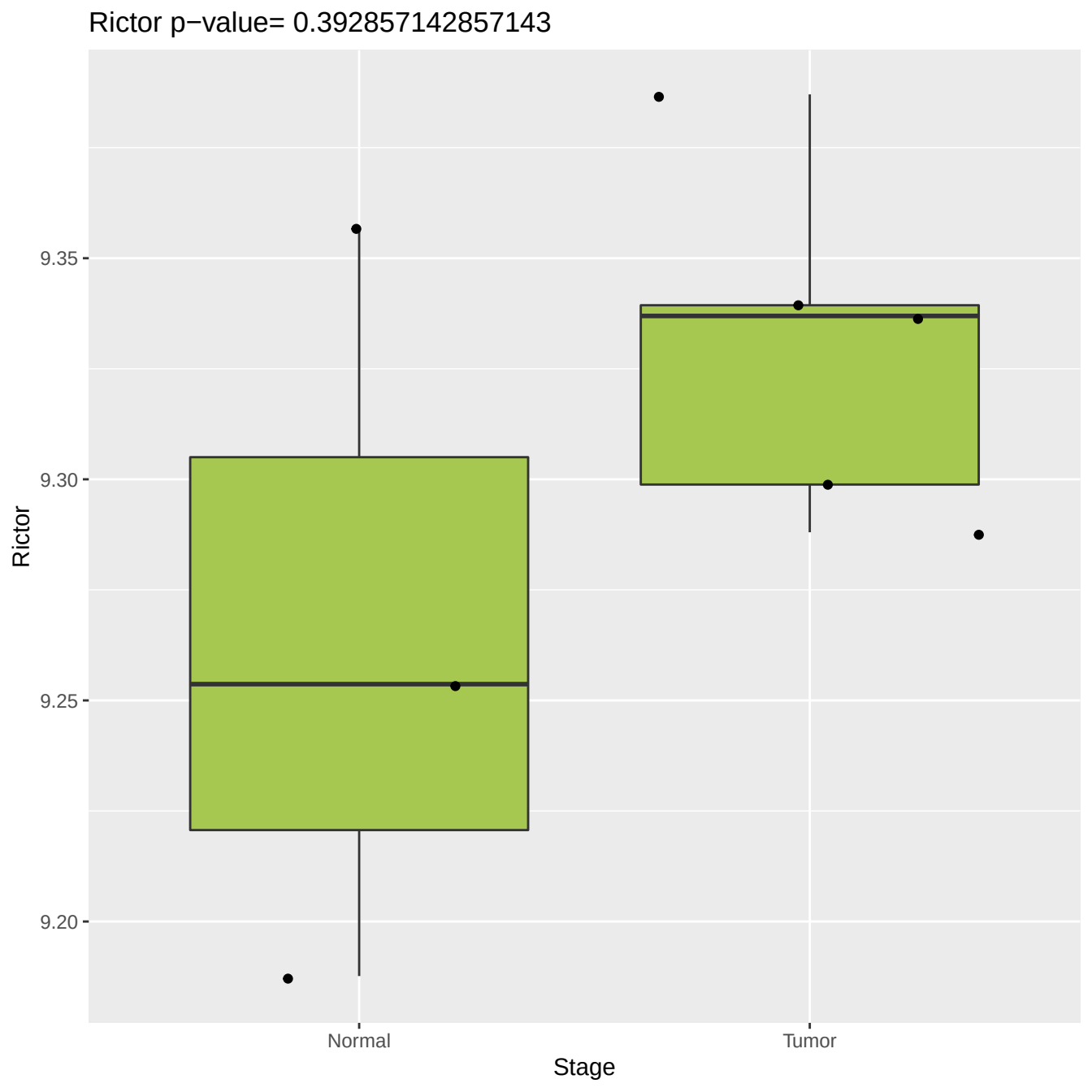

Akt1
9.9 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

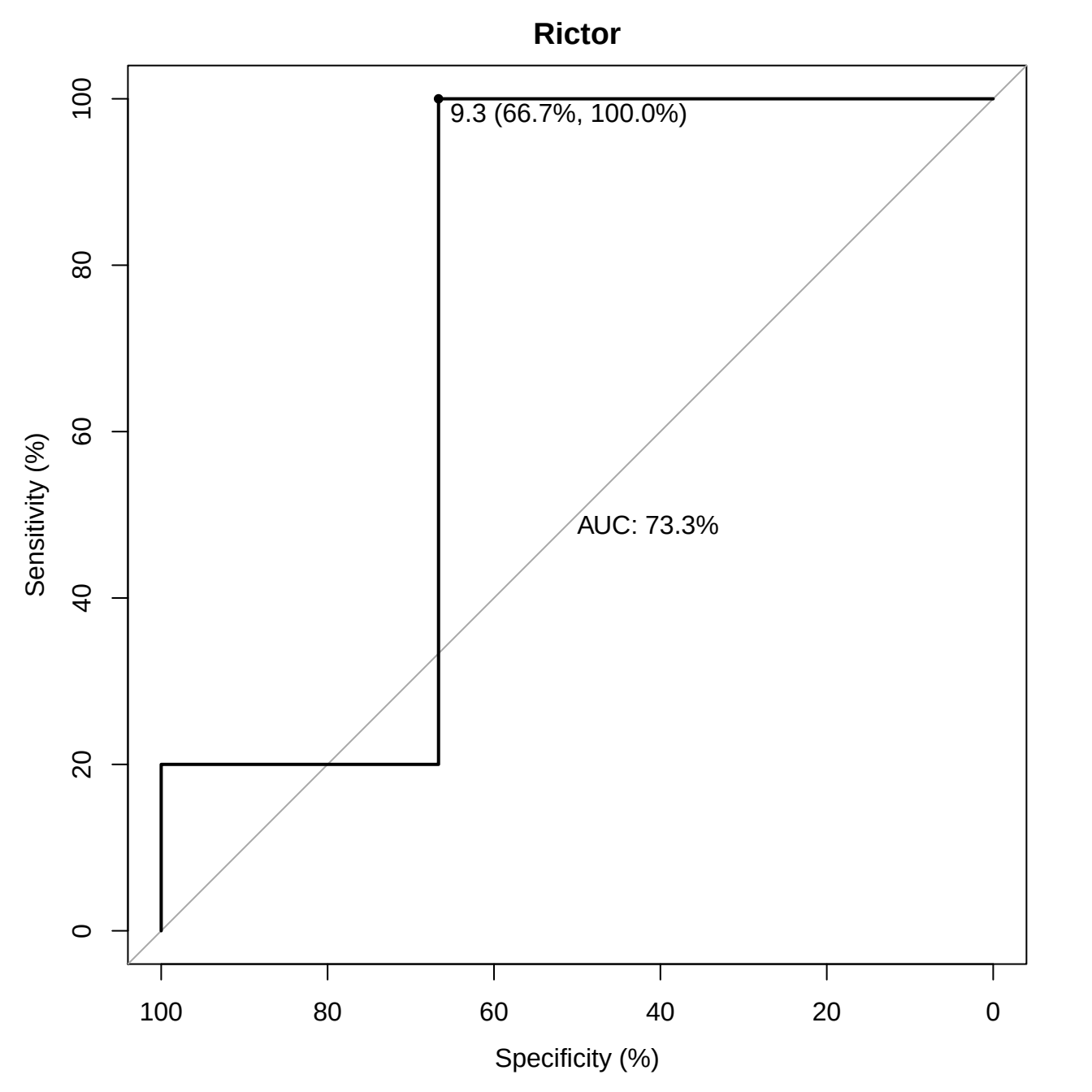

Edn1 p−value= 0.392857142857143
6.8
6.6
6.4
Edn1
Normal
Tumor
Stage

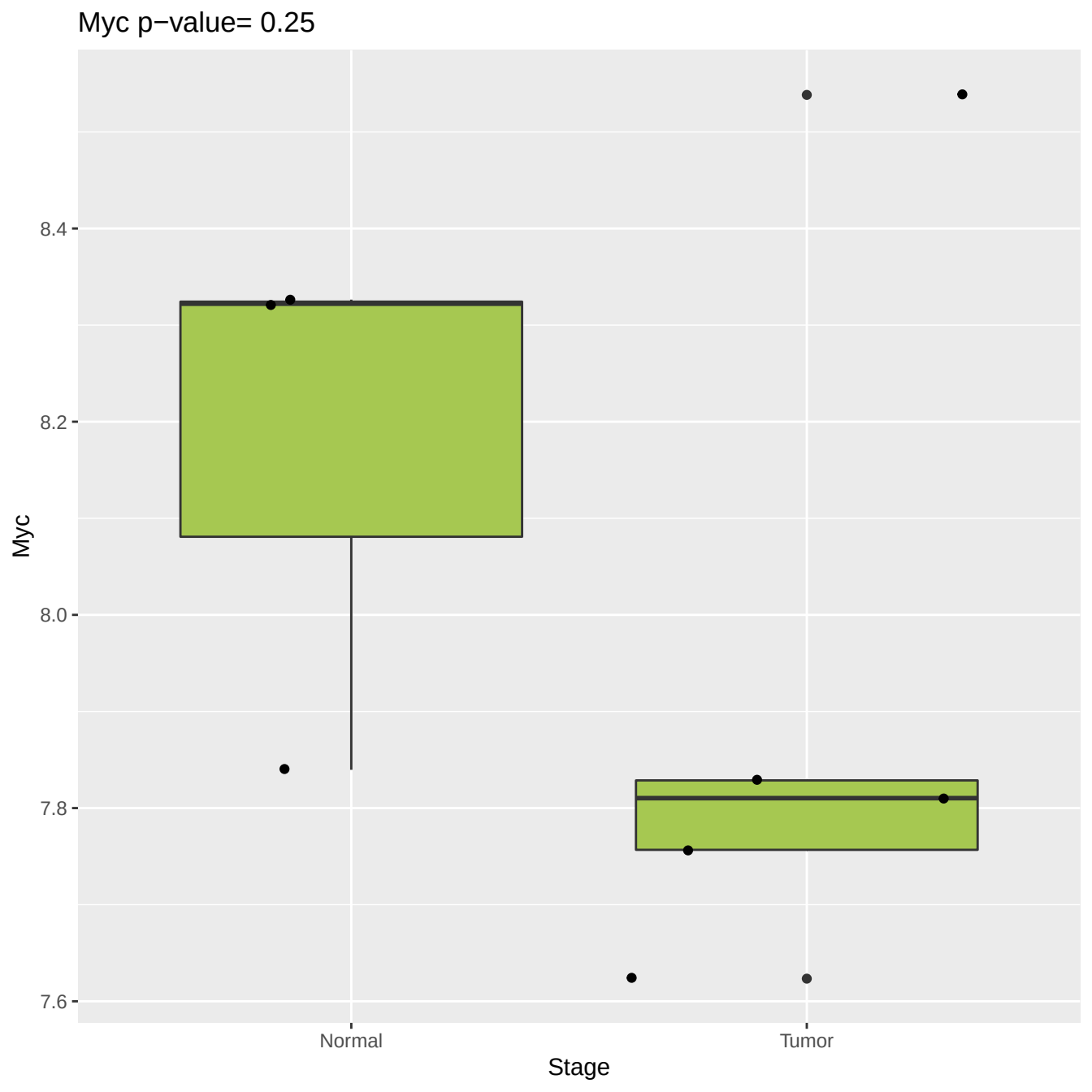

Edn1
6.8 (66.7%, 100.0%)
AUC: 73.3%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

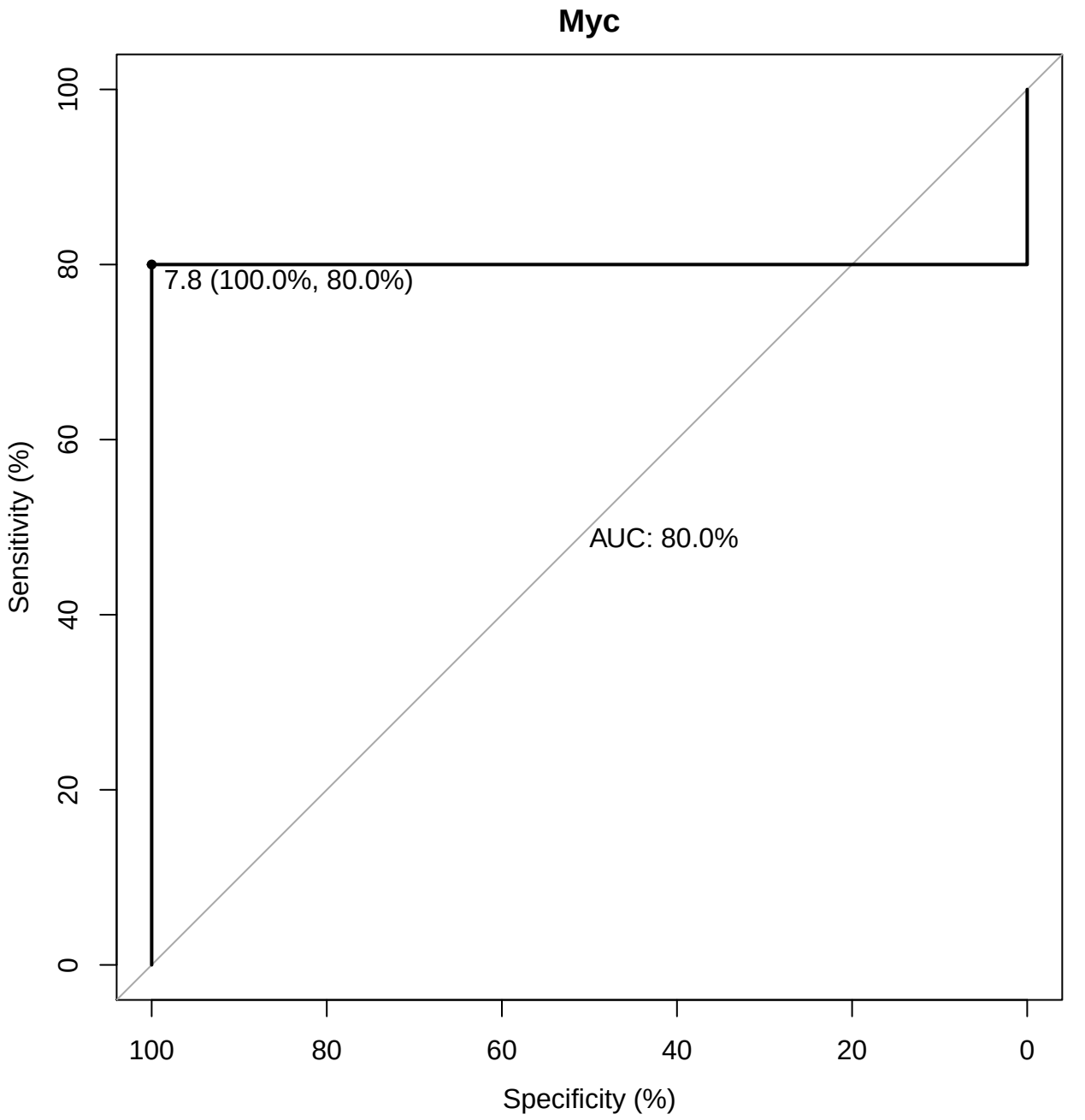

Rb1 p−value= 0.0357142857142857
10.0
9.5
9.0
Rb1
Normal
Tumor
Stage

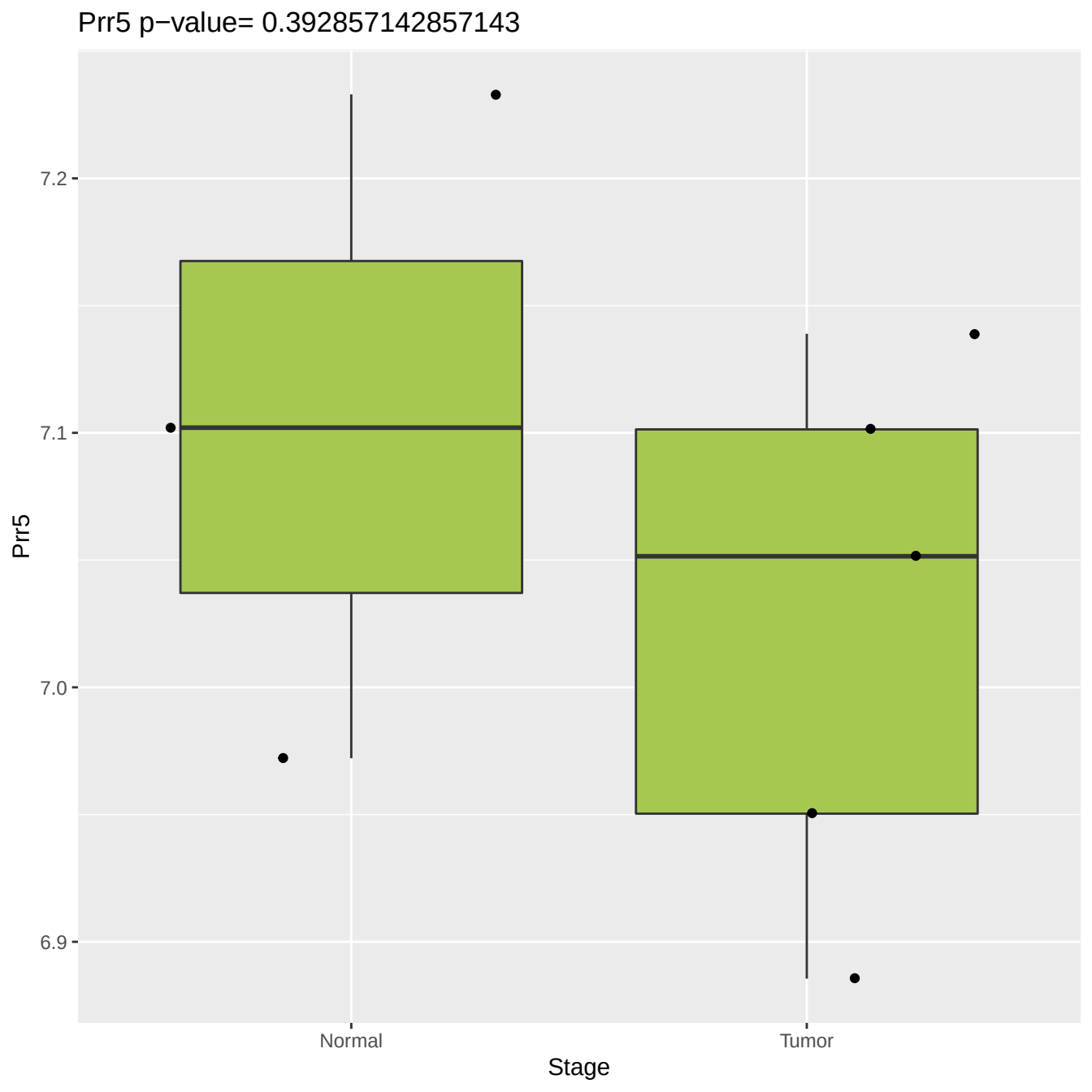

Rb1
9.4 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

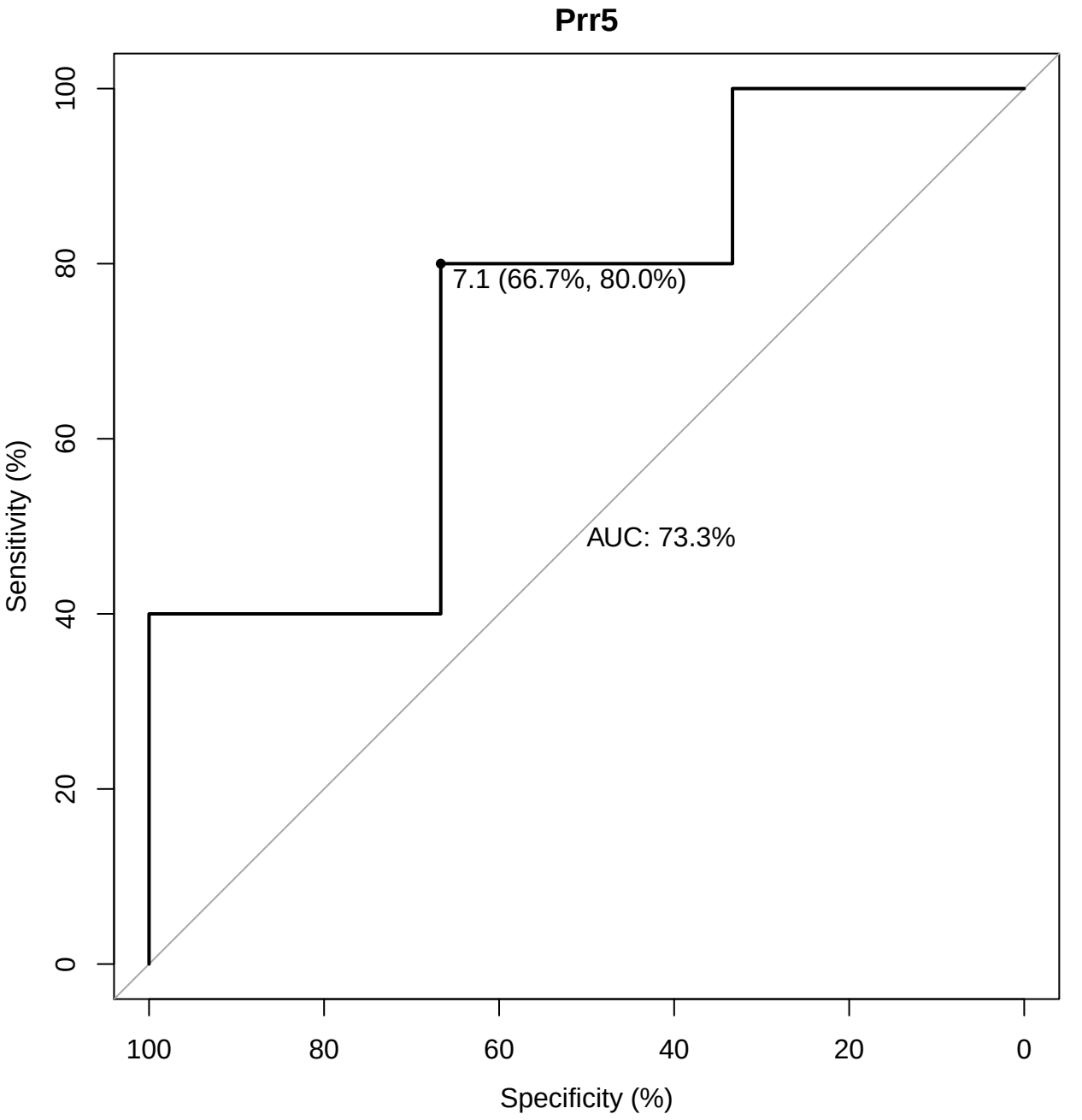

Rictor p−value= 0.392857142857143
9.35
9.30
9.25
9.20
Rictor
Normal
Tumor
Stage

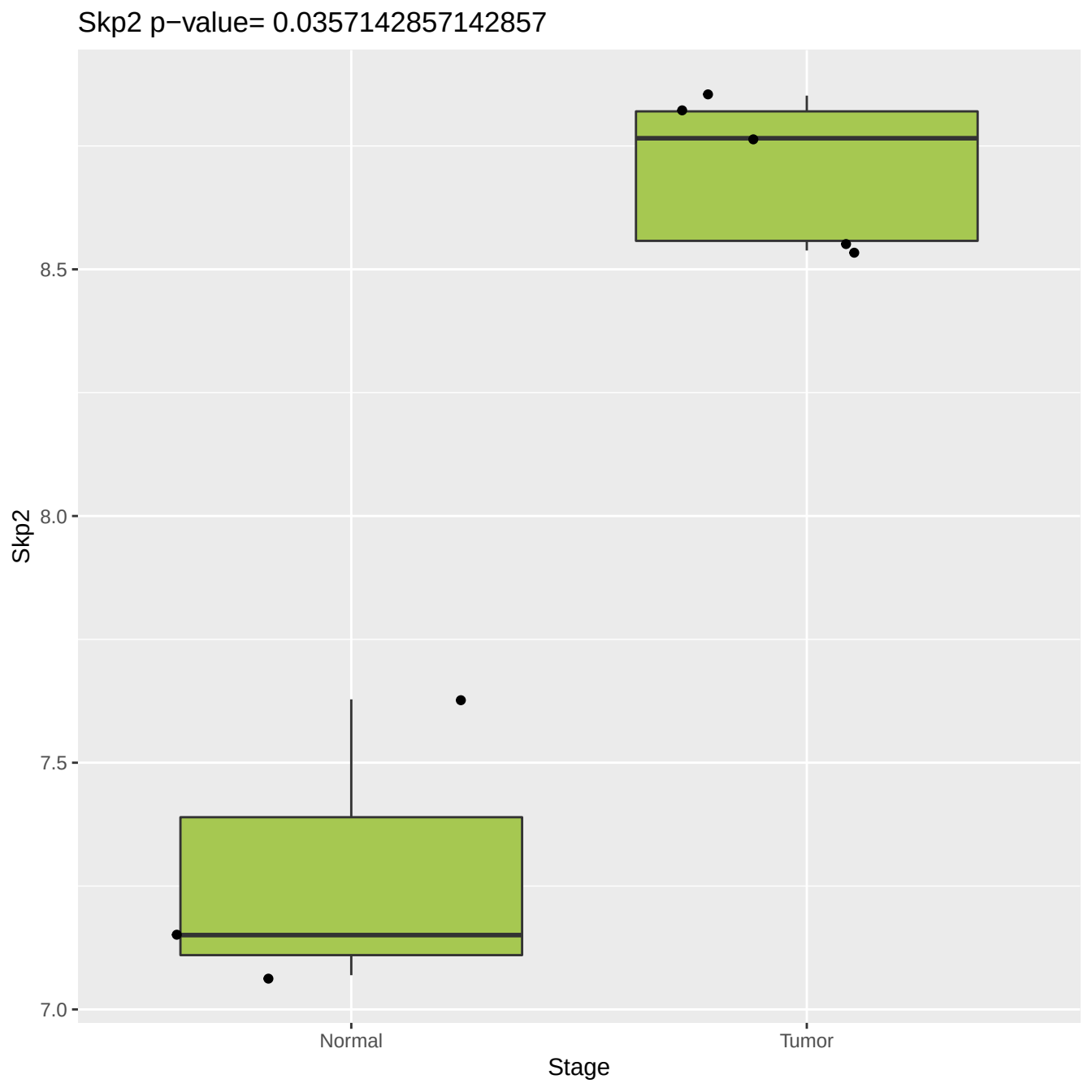

Rictor
9.3 (66.7%, 100.0%)
AUC: 73.3%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

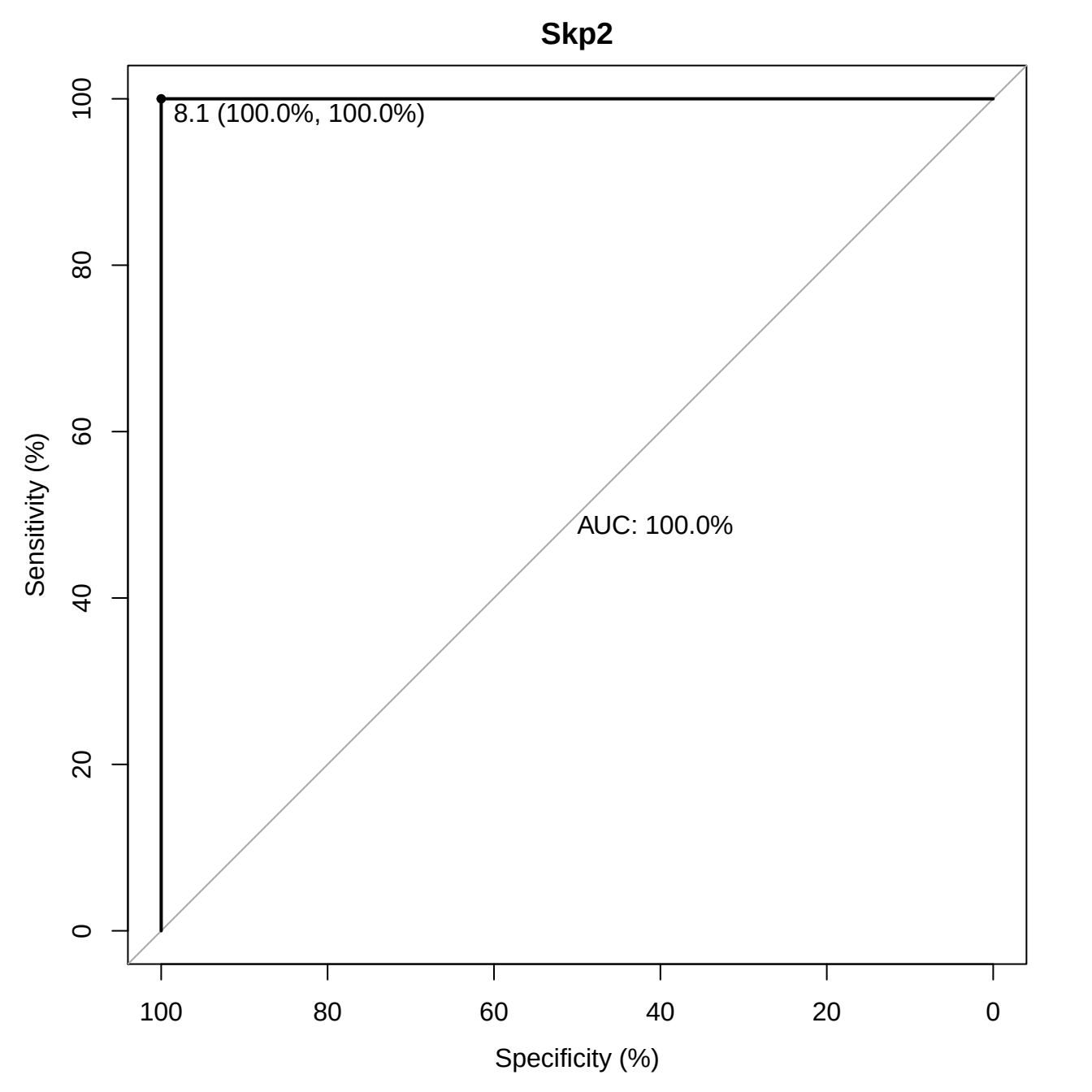

Myc p−value= 0.25
8.4
8.2
8.0
7.8
7.6
Myc
Normal
Tumor
Stage

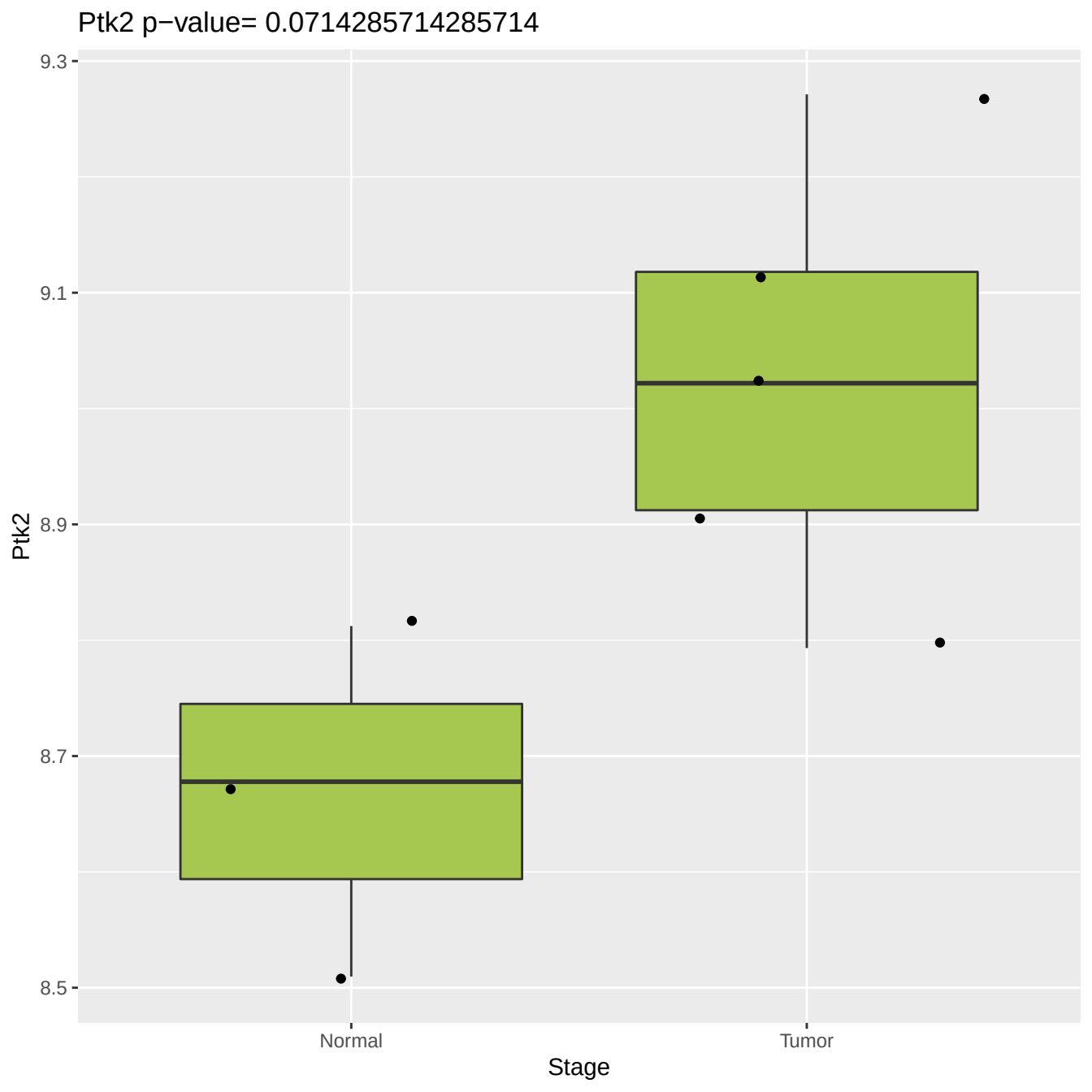

Myc
Sensitivity (%)
100
80
60
40
20
0
7.8 (100.0%, 80.0%)
AUC: 80.0%
100
80
60
40
20
0
Specificity (%)

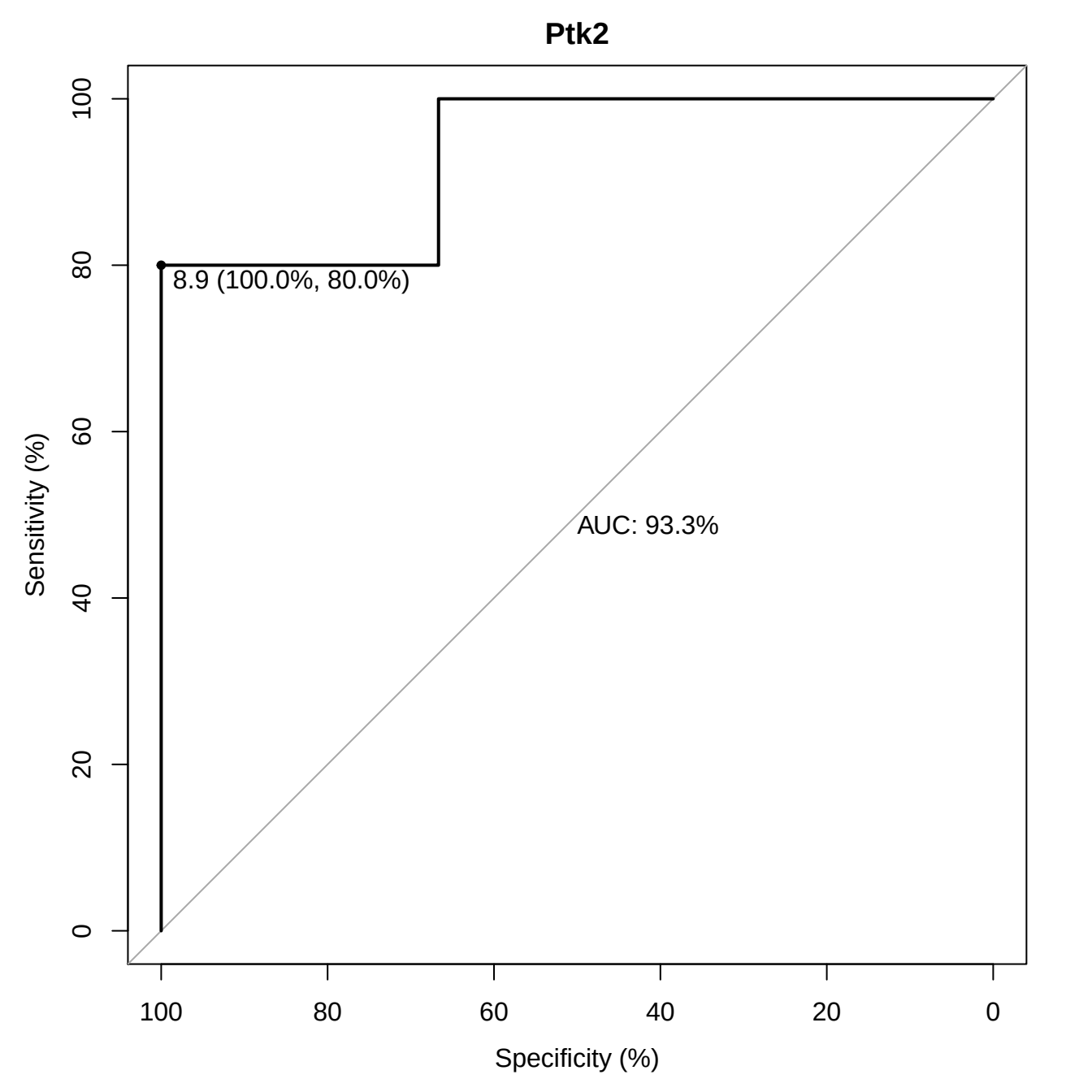

Prr5 p−value= 0.392857142857143
7.2
7.1
7.0
6.9
Prr5
Normal
Tumor
Stage

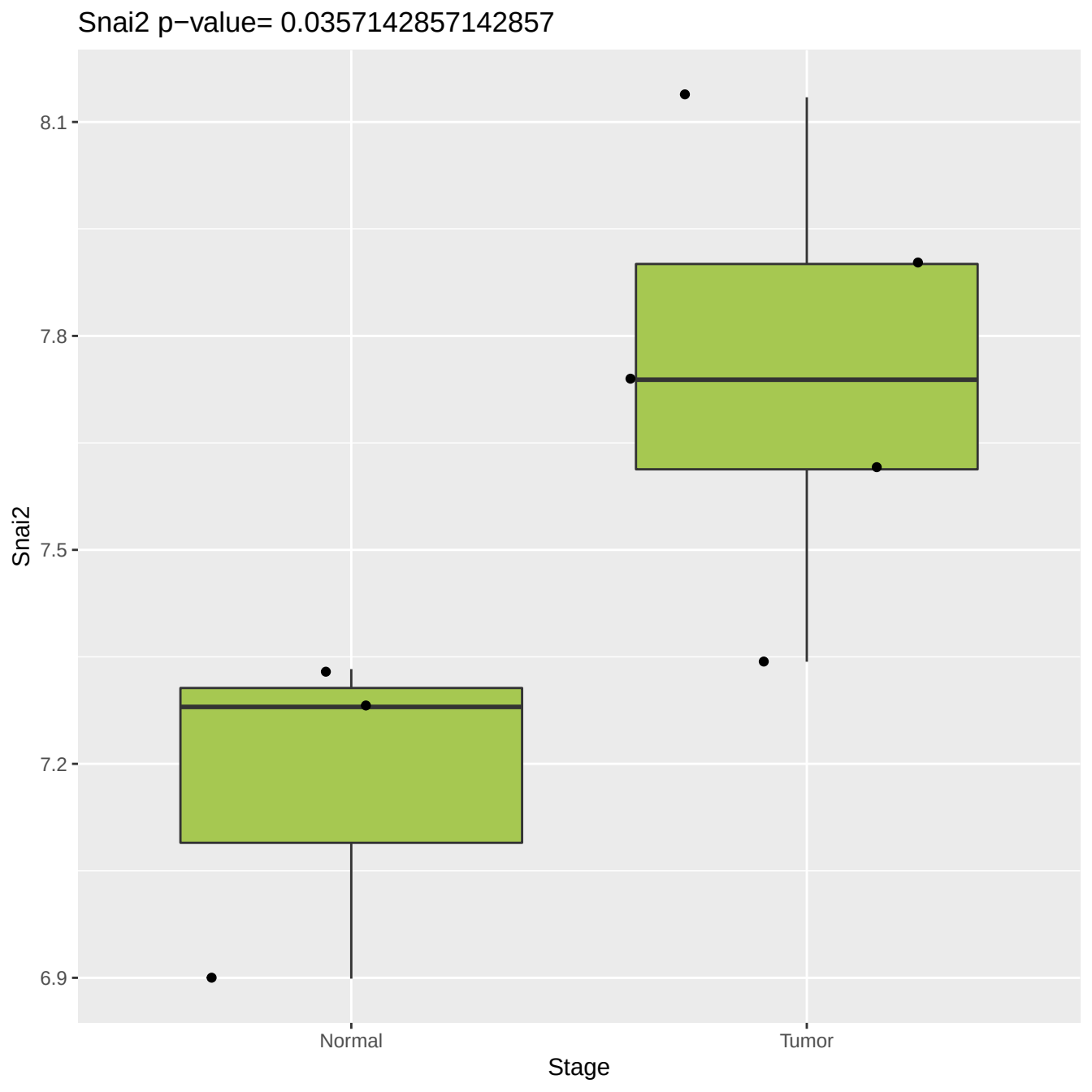

Prr5
Sensitivity (%)
100
80
60
40
20
0
7.1 (66.7%, 80.0%)
AUC: 73.3%
100
80
60
40
20
0
Specificity (%)

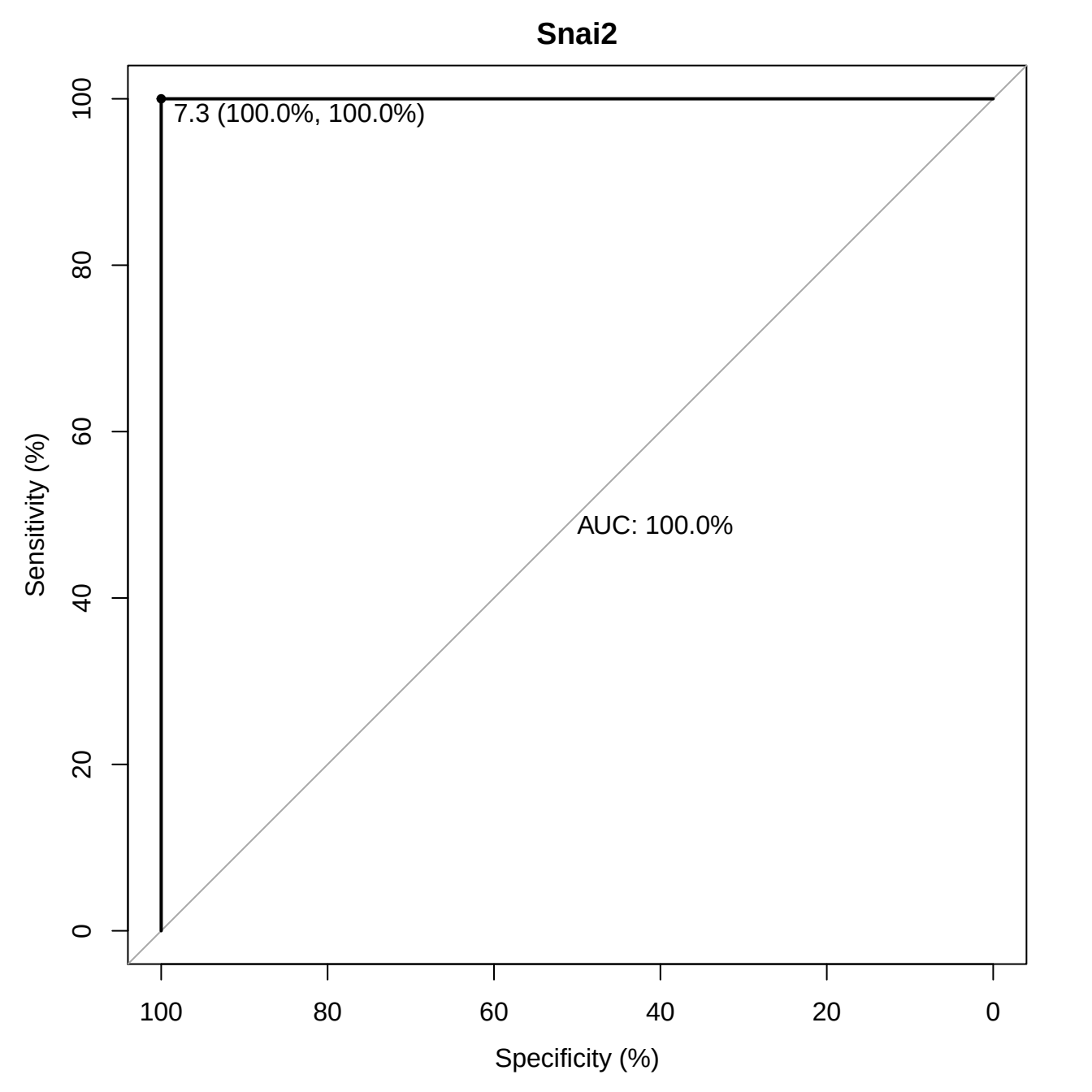

Skp2 p−value= 0.0357142857142857
8.5
8.0
7.5
7.0
Skp2
Normal
Tumor
Stage

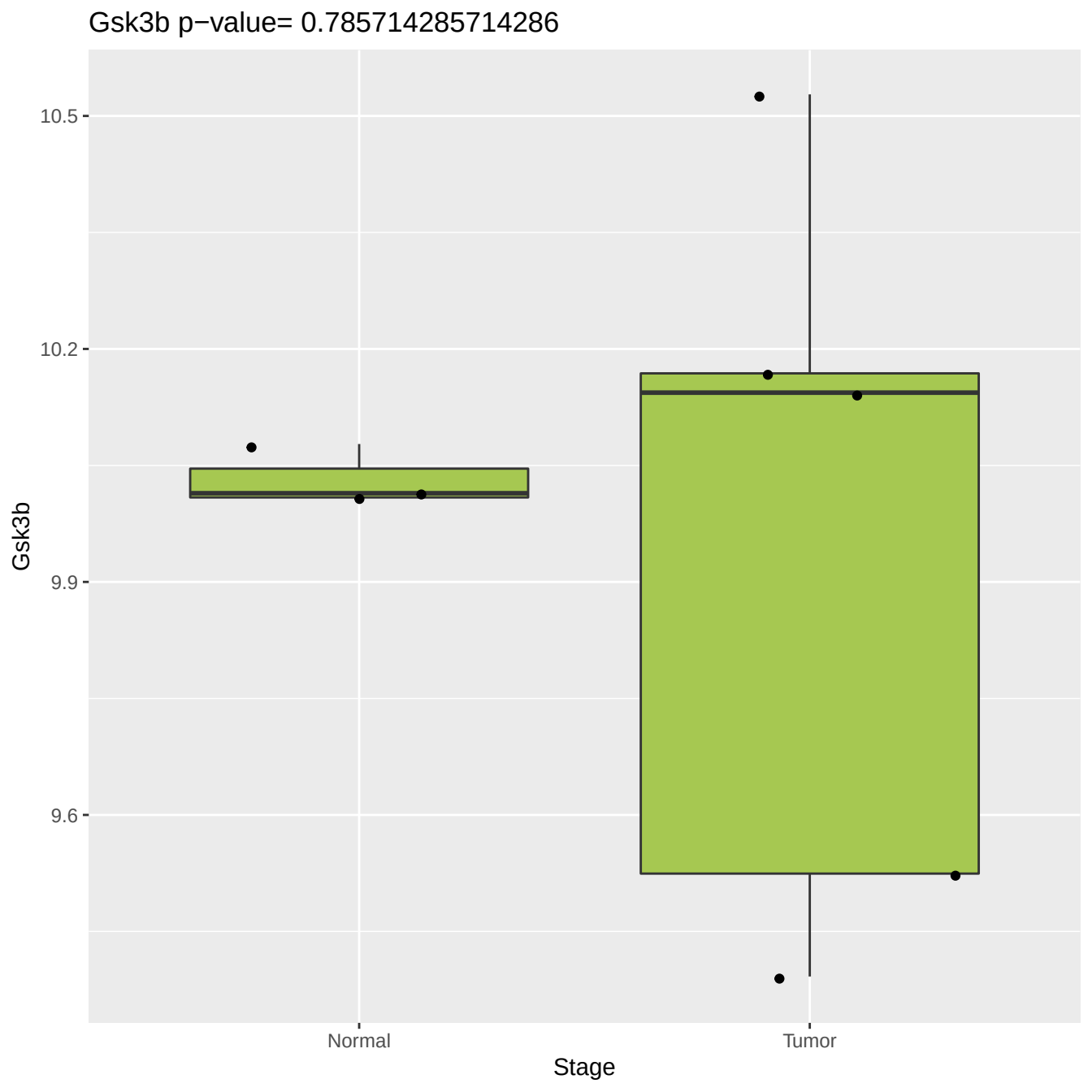

Skp2
8.1 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

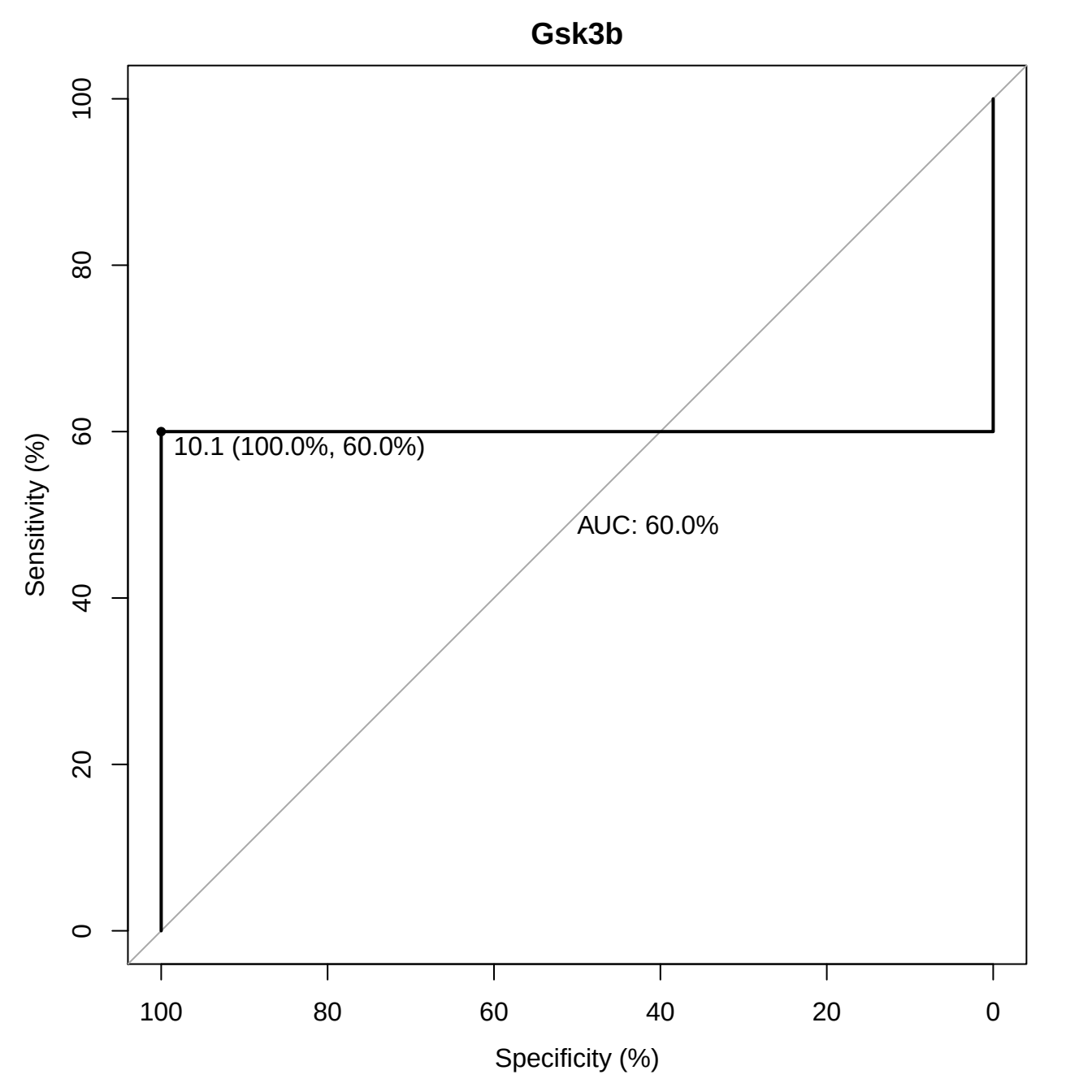

Ptk2 p−value= 0.0714285714285714
9.3
9.1
8.9
8.7
8.5
Ptk2
Normal
Tumor
Stage

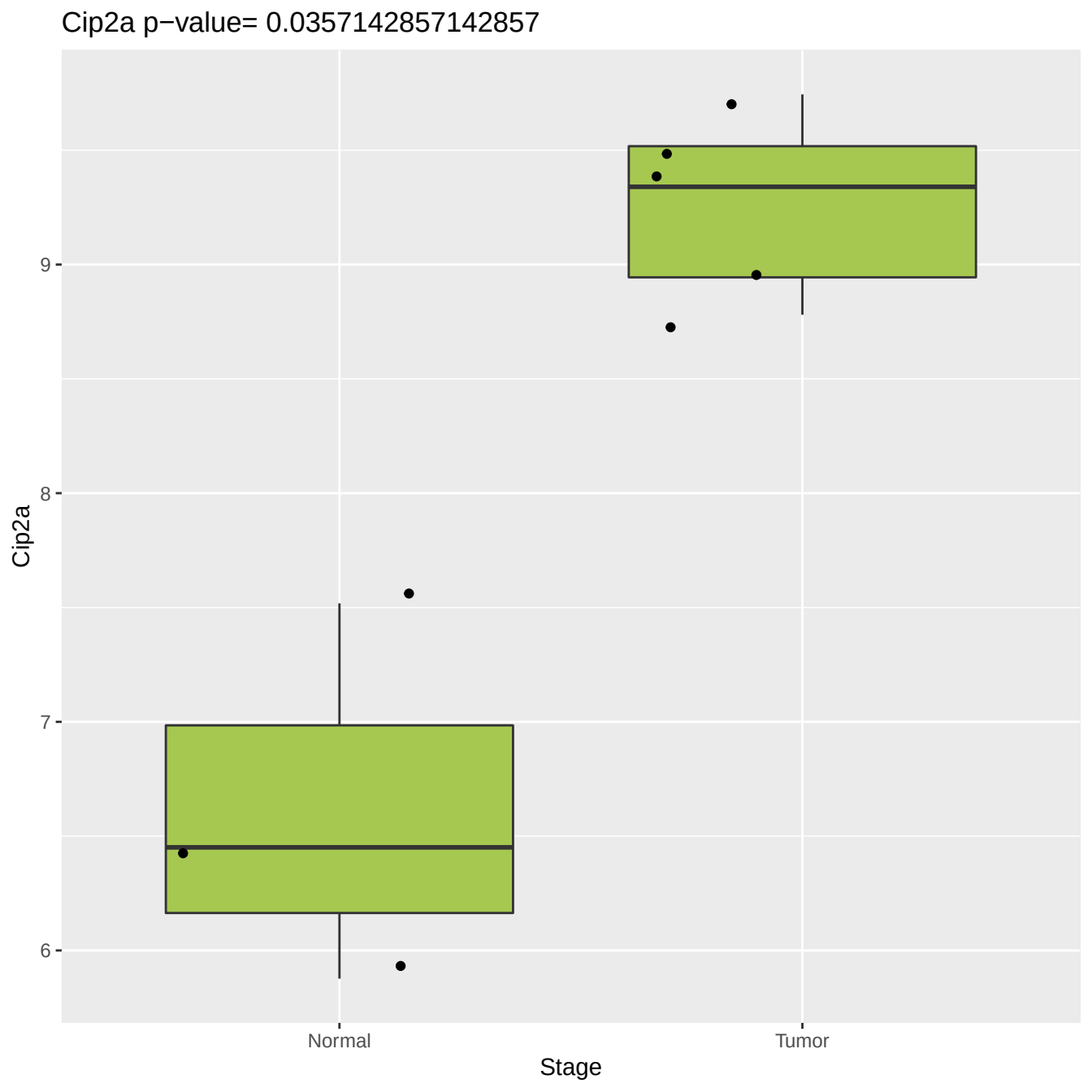

Ptk2
Sensitivity (%)
100
80
60
40
20
0
8.9 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

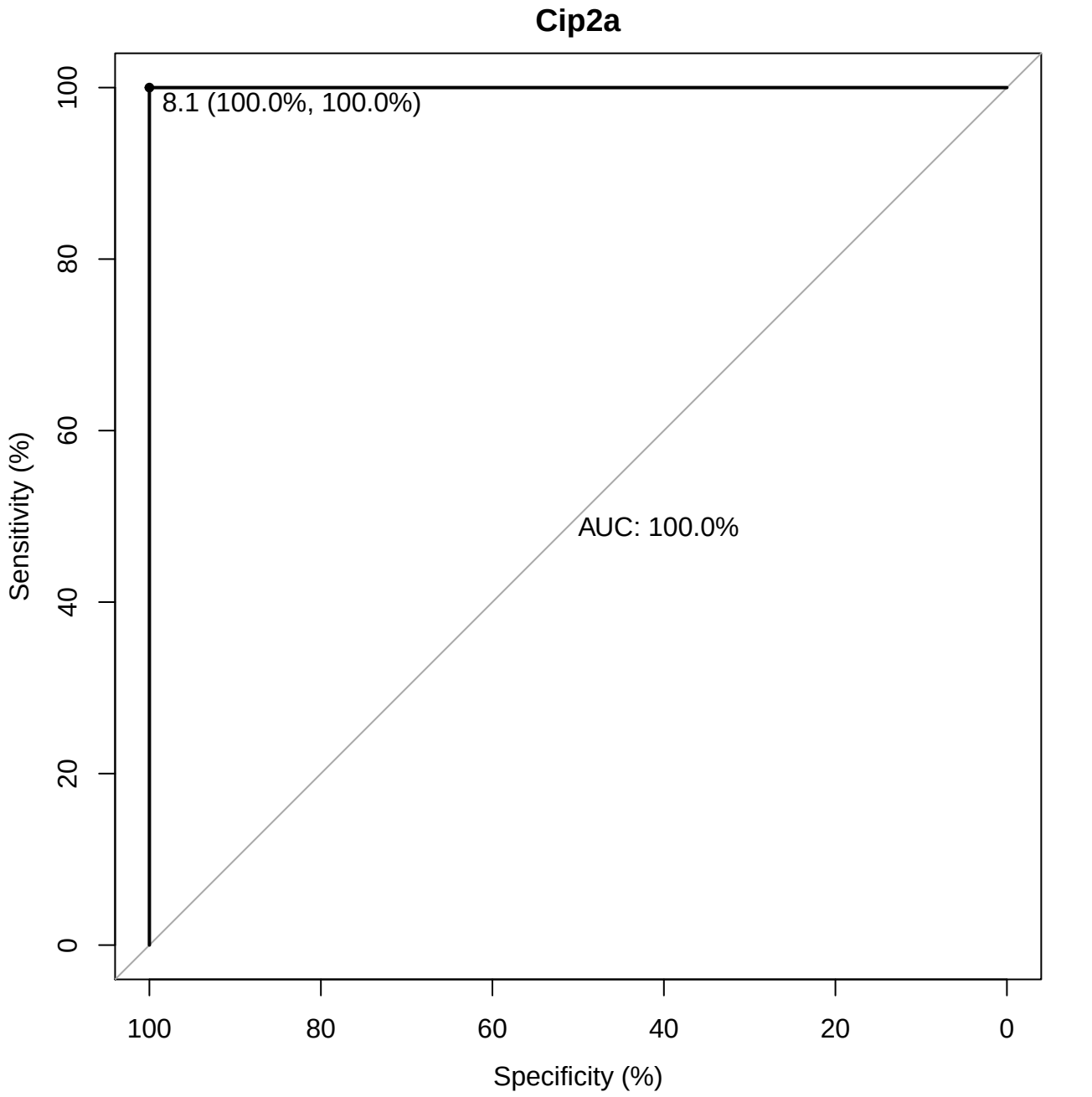

Snai2 p−value= 0.0357142857142857
8.1
7.8
7.5
7.2
6.9
Snai2
Normal
Tumor
Stage

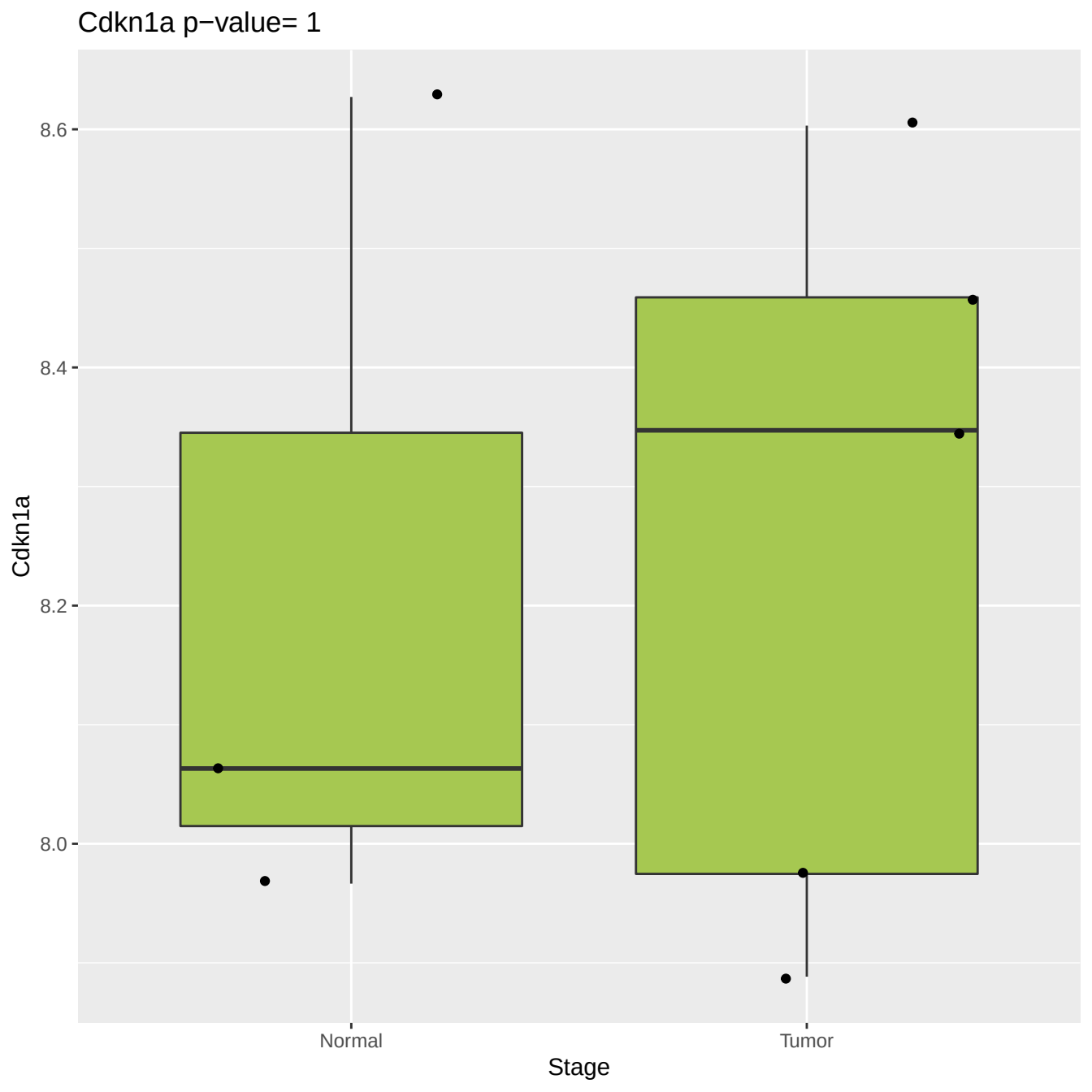

Snai2
7.3 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

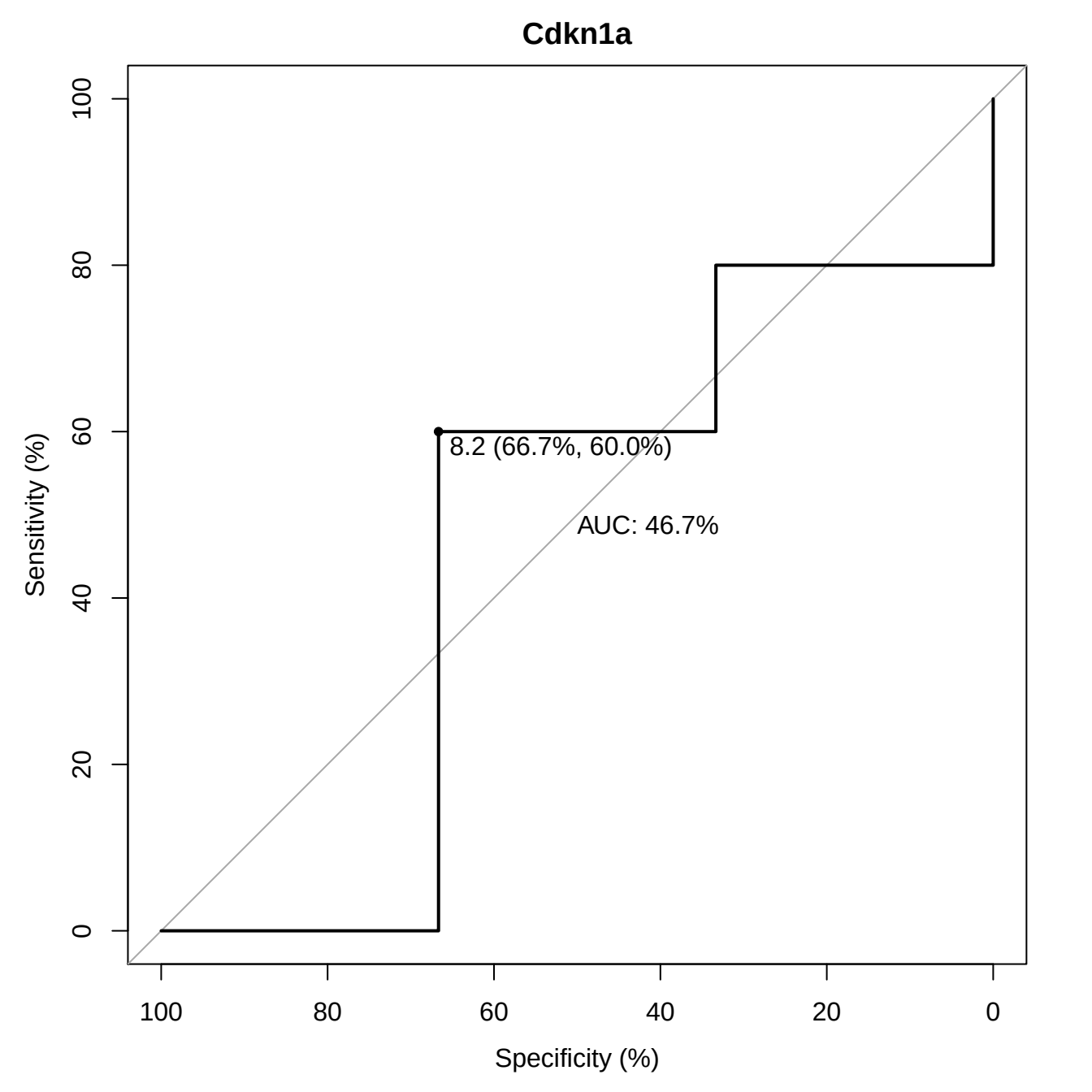

Gsk3b p−value= 0.785714285714286
10.5
10.2
9.9
9.6
Gsk3b
Normal
Tumor
Stage

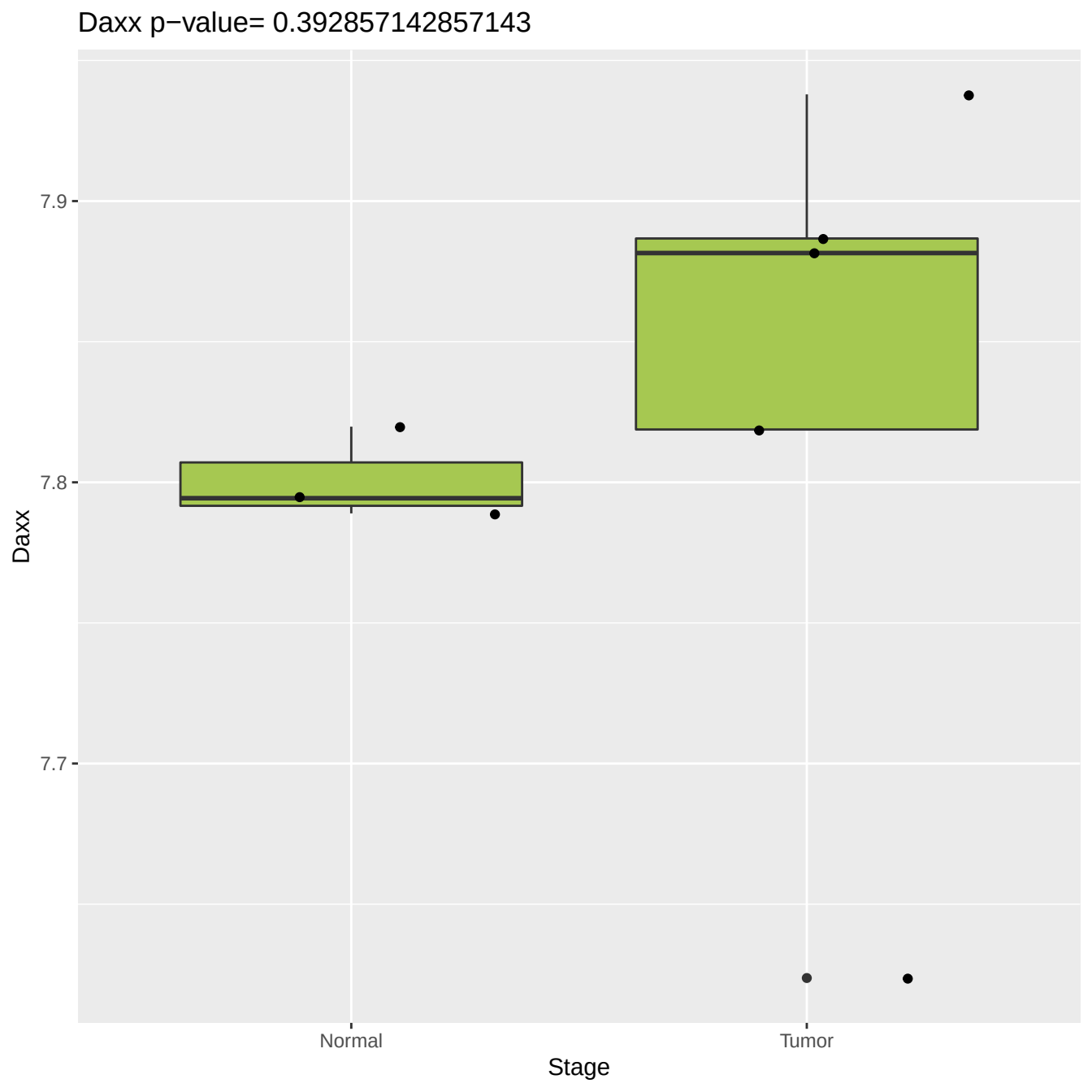

Gsk3b
Sensitivity (%)
100
80
60
40
20
0
10.1 (100.0%, 60.0%)
AUC: 60.0%
100
80
60
40
20
0
Specificity (%)

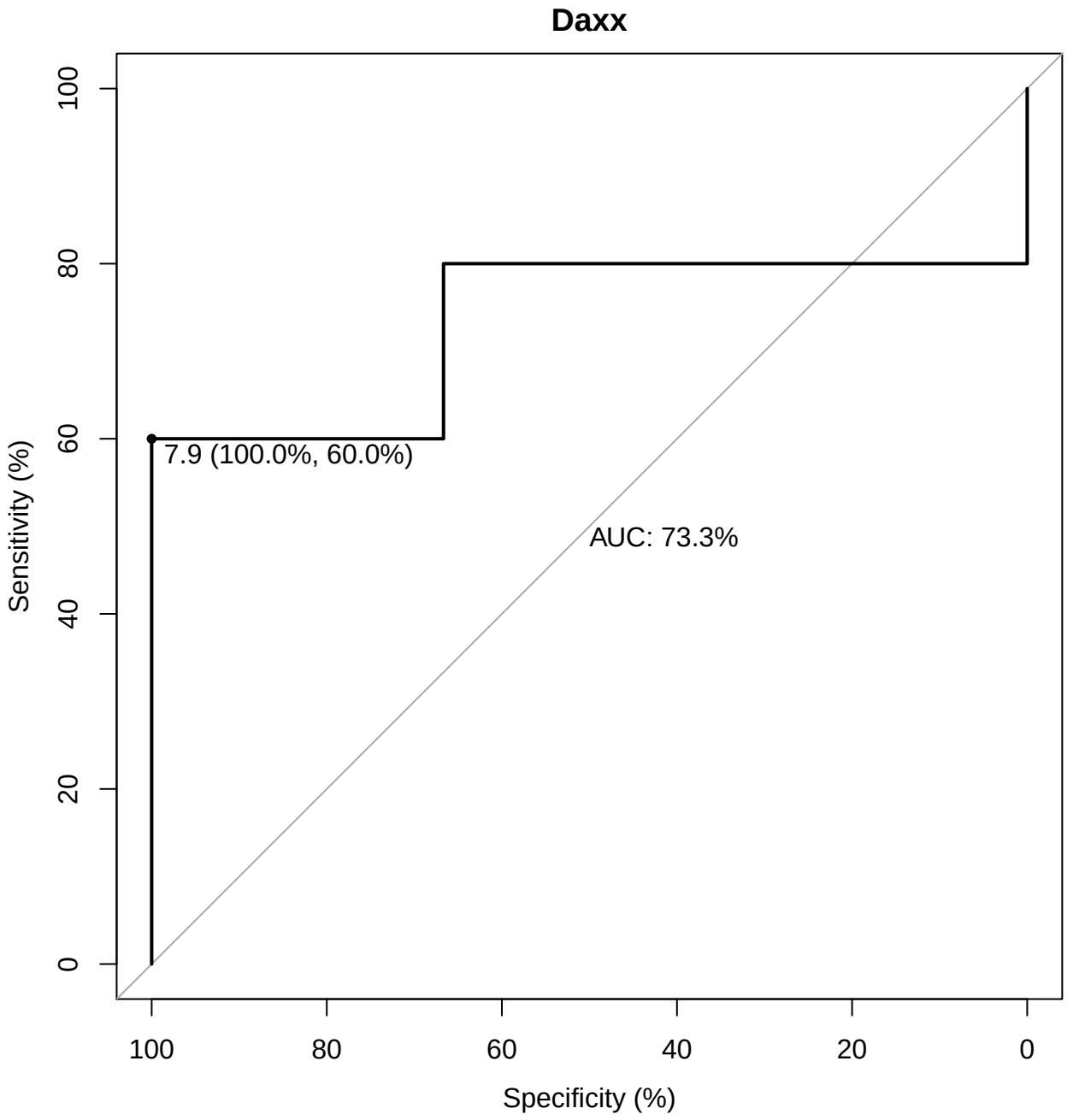

Cip2a p−value= 0.0357142857142857
9
8
7
6
Cip2a
Normal
Tumor
Stage

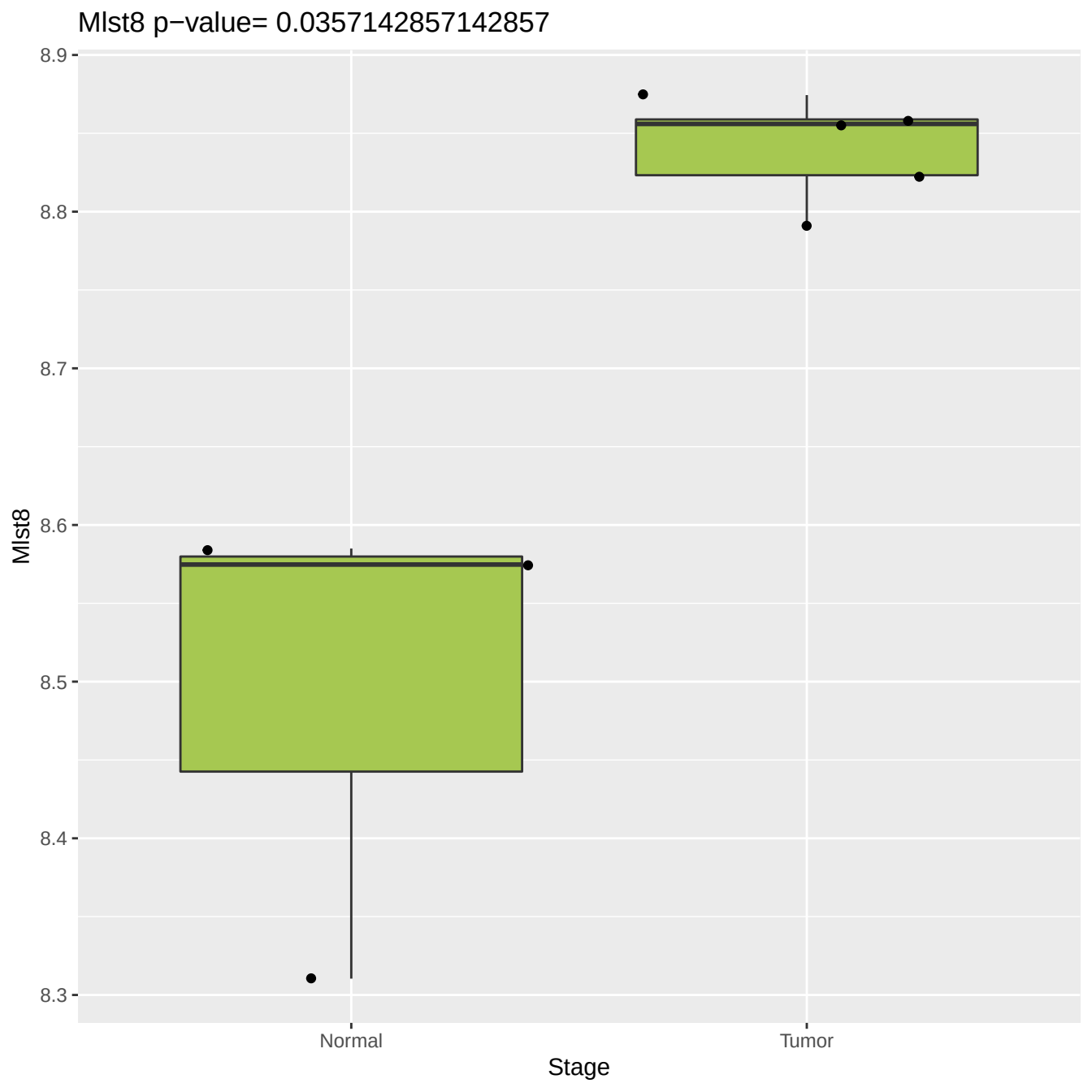

Cip2a
8.1 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

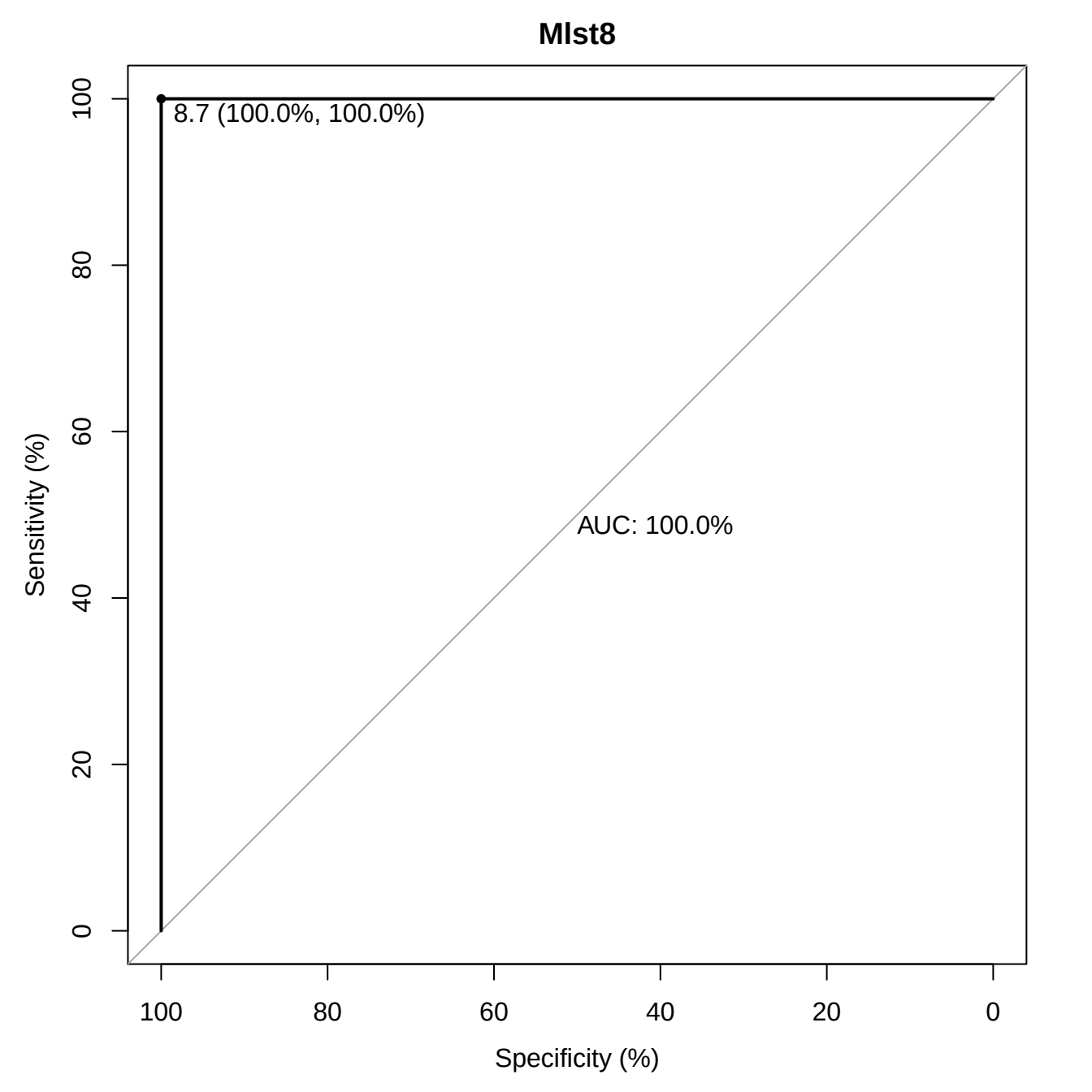

Cdkn1a p−value= 1
8.6
8.4
8.2
8.0
Cdkn1a
Normal
Tumor
Stage

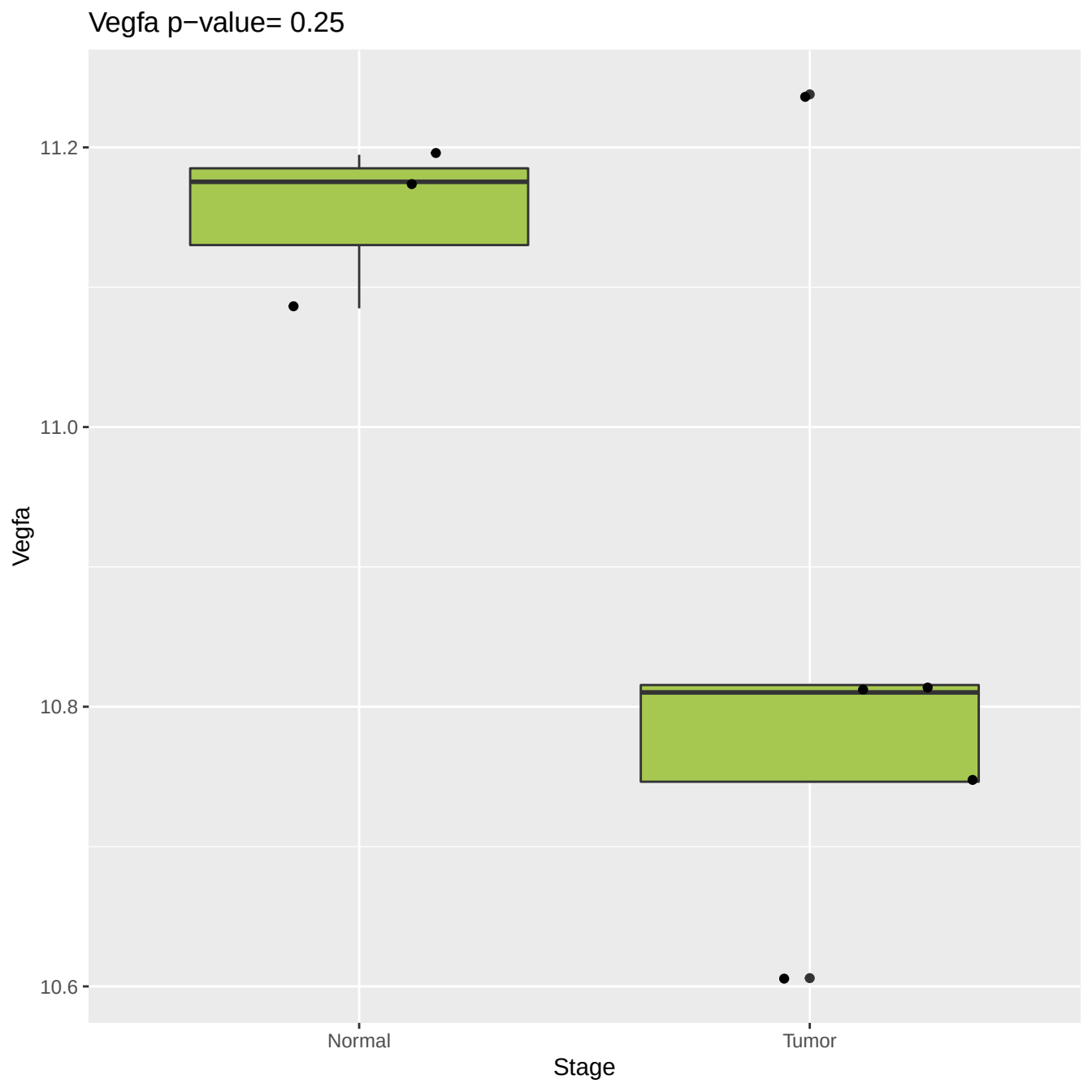

Cdkn1a
Sensitivity (%)
100
80
60
40
20
0
8.2 (66.7%, 60.0%)
AUC: 46.7%
100
80
60
40
20
0
Specificity (%)

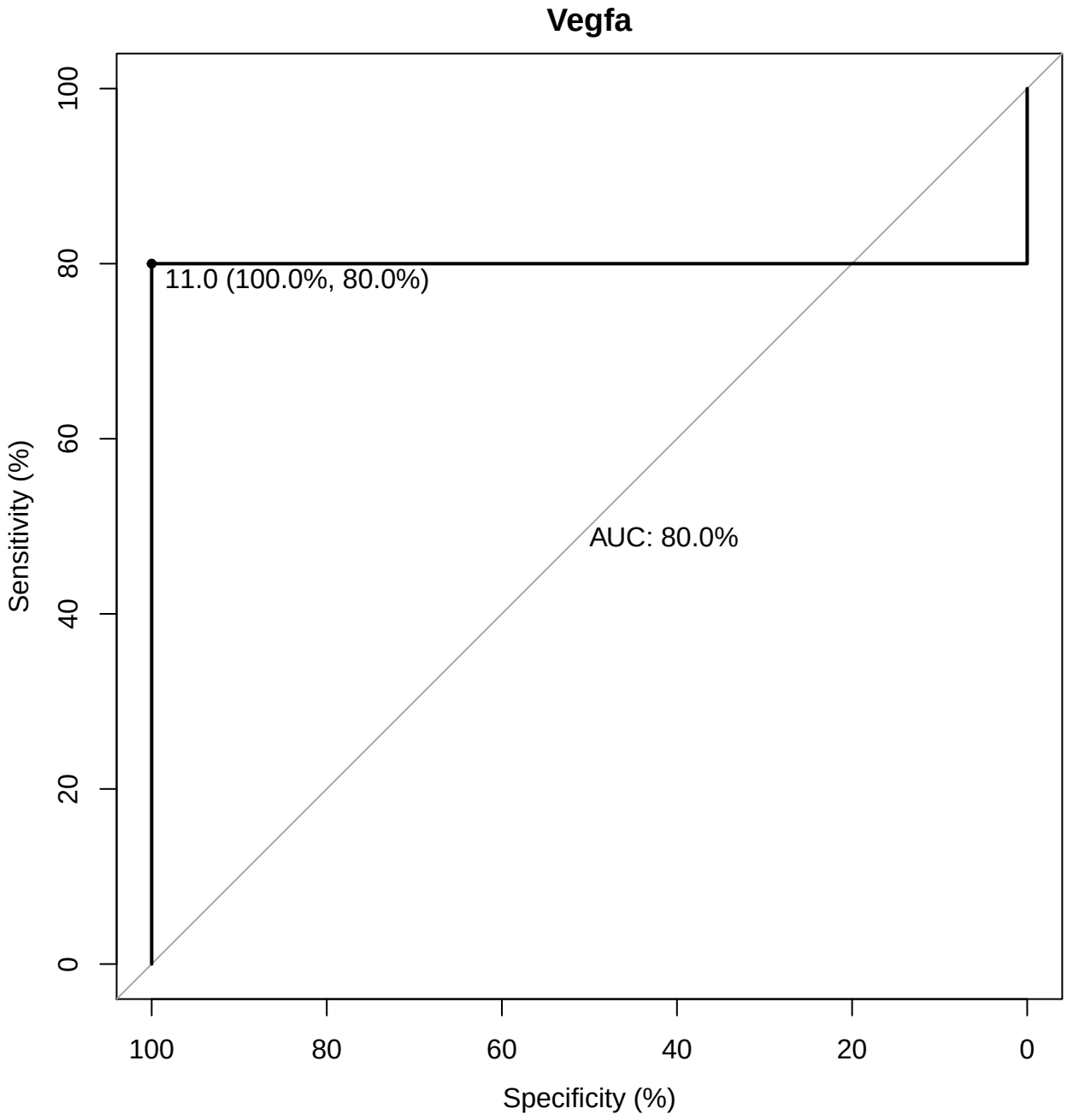

Daxx p−value= 0.392857142857143
7.9
7.8
7.7
Daxx
Normal
Tumor
Stage

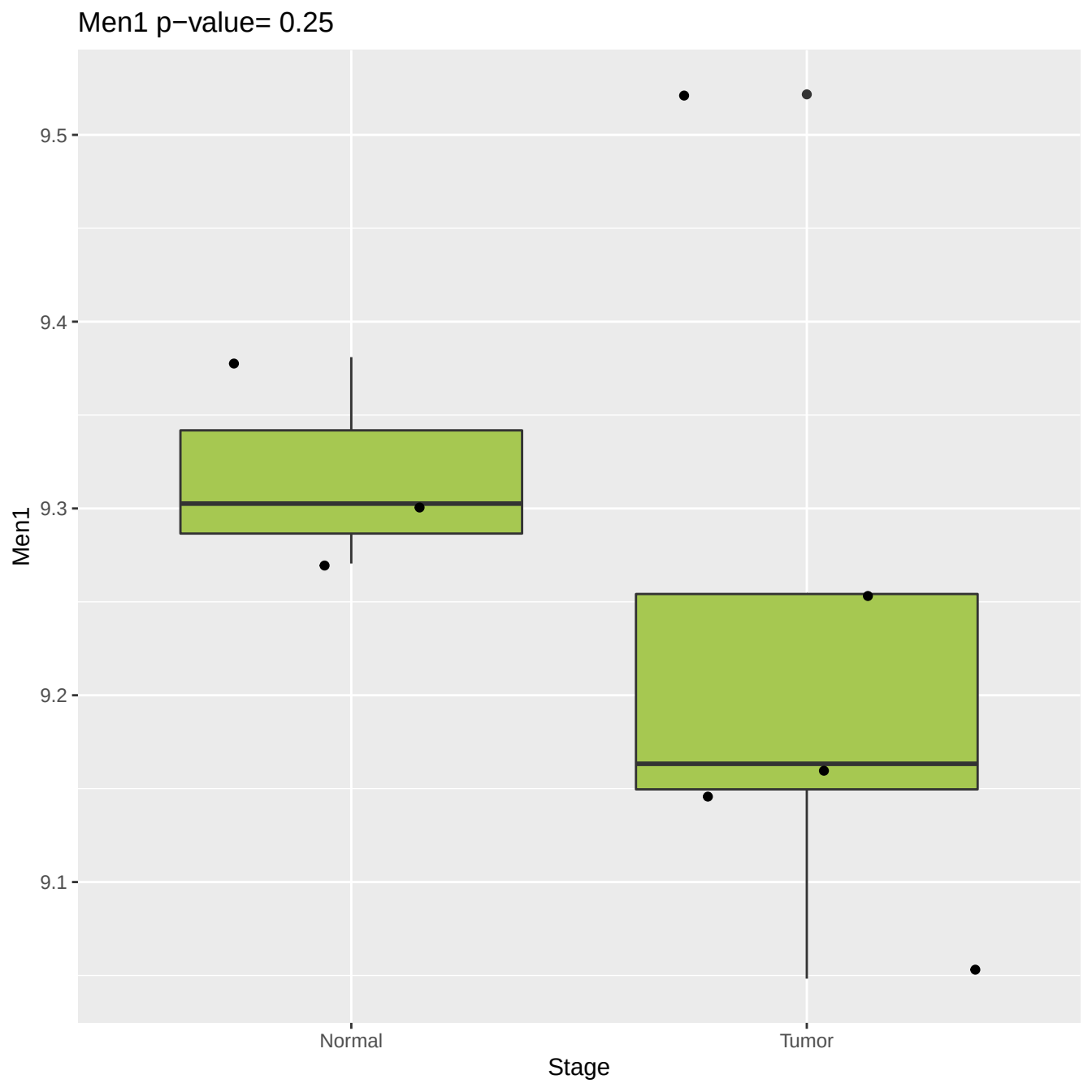

Daxx
Sensitivity (%)
100
80
60
40
20
0
7.9 (100.0%, 60.0%)
AUC: 73.3%
100
80
60
40
20
0
Specificity (%)

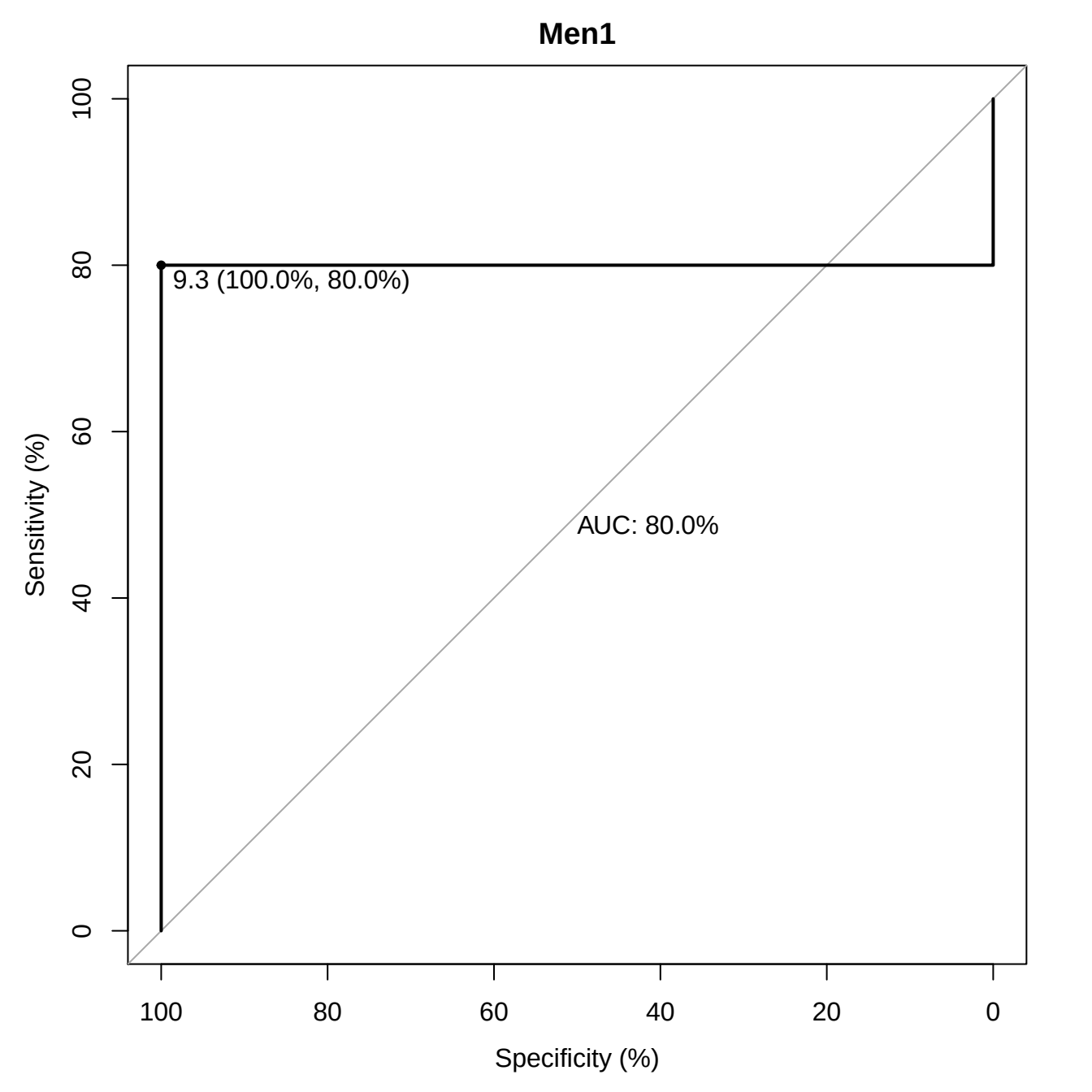

Mlst8 p−value= 0.0357142857142857
8.9
8.8
8.7
8.6
8.5
8.4
8.3
Mlst8
Normal
Tumor
Stage

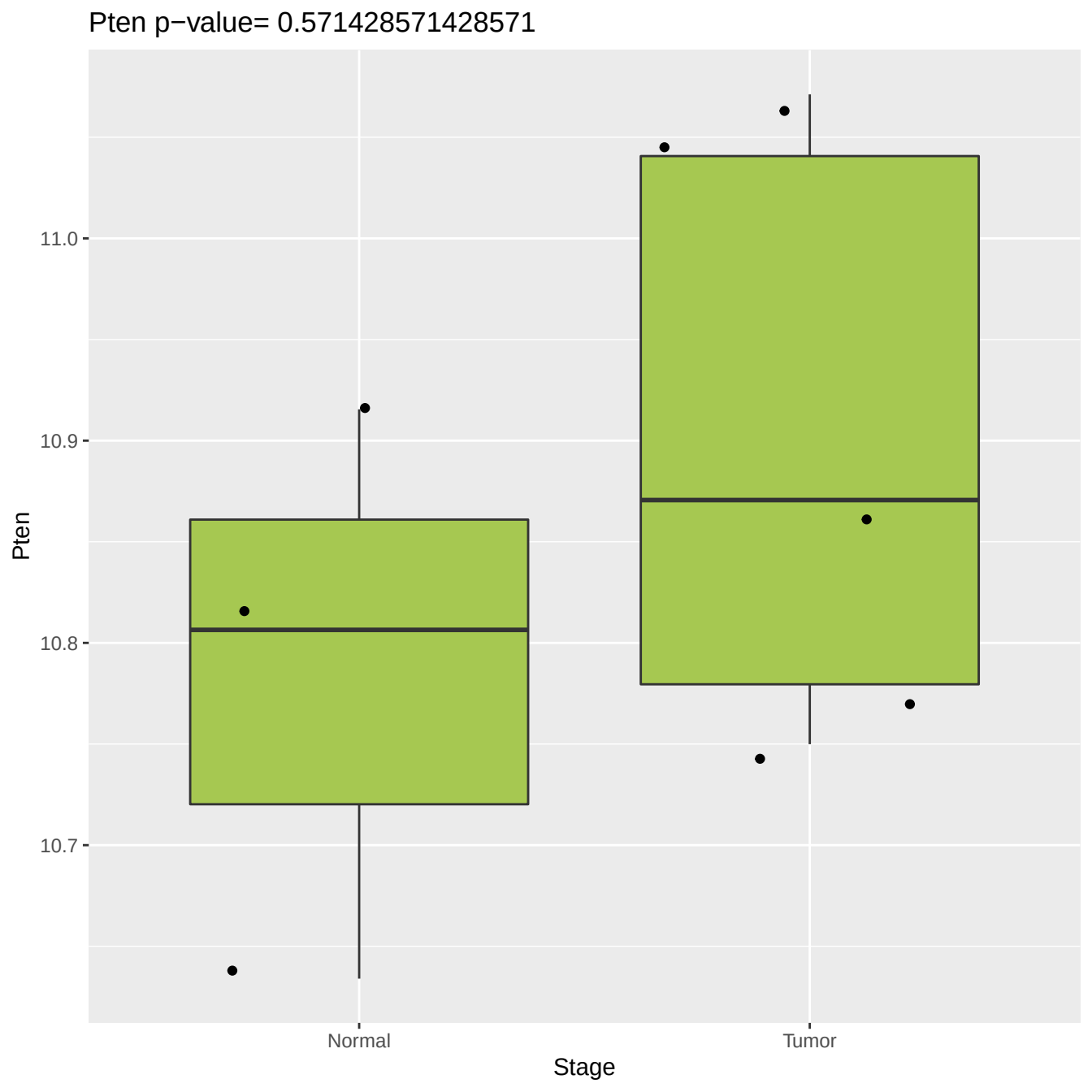

Mlst8
8.7 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

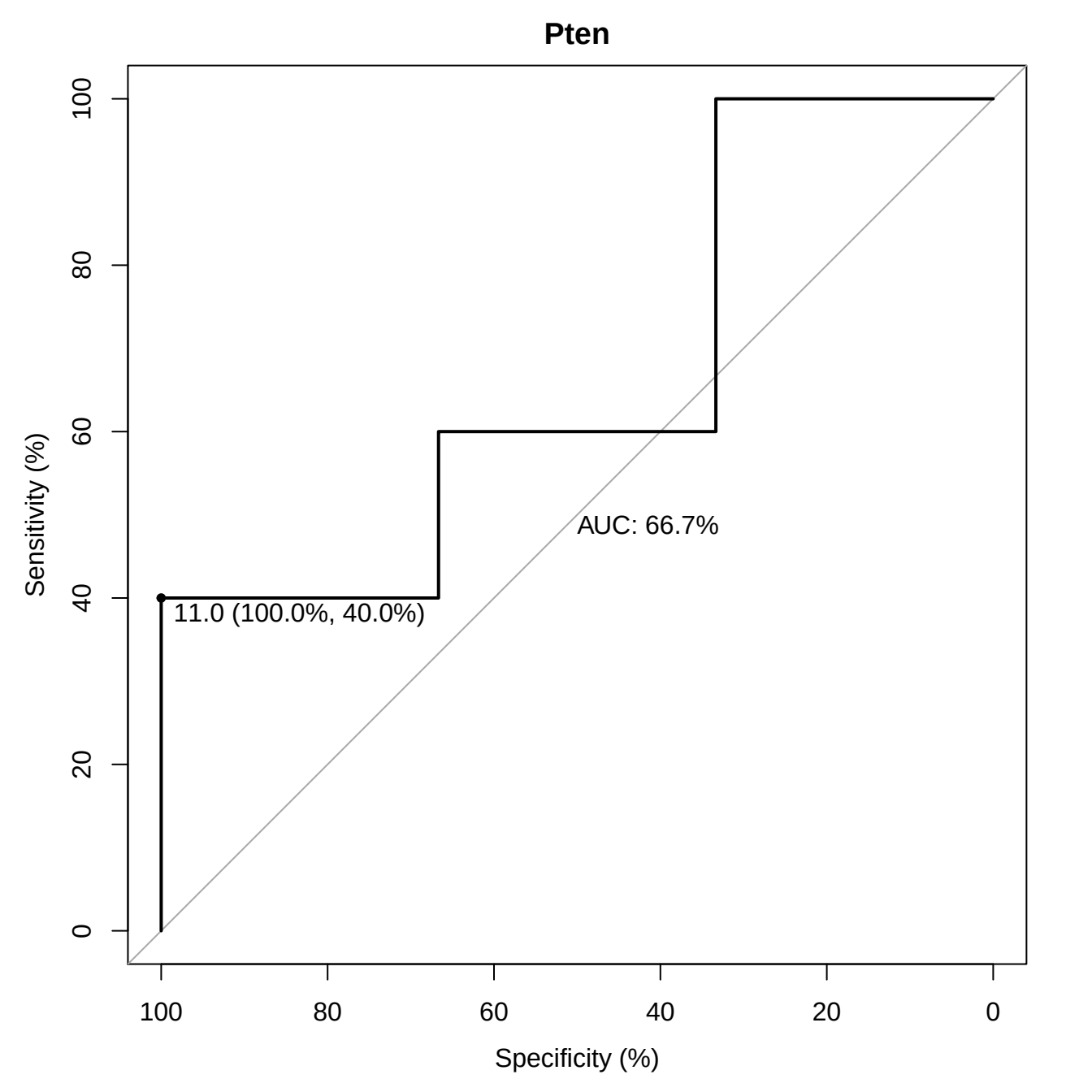

Vegfa p−value= 0.25
11.2
11.0
10.8
10.6
Vegfa
Normal
Tumor
Stage

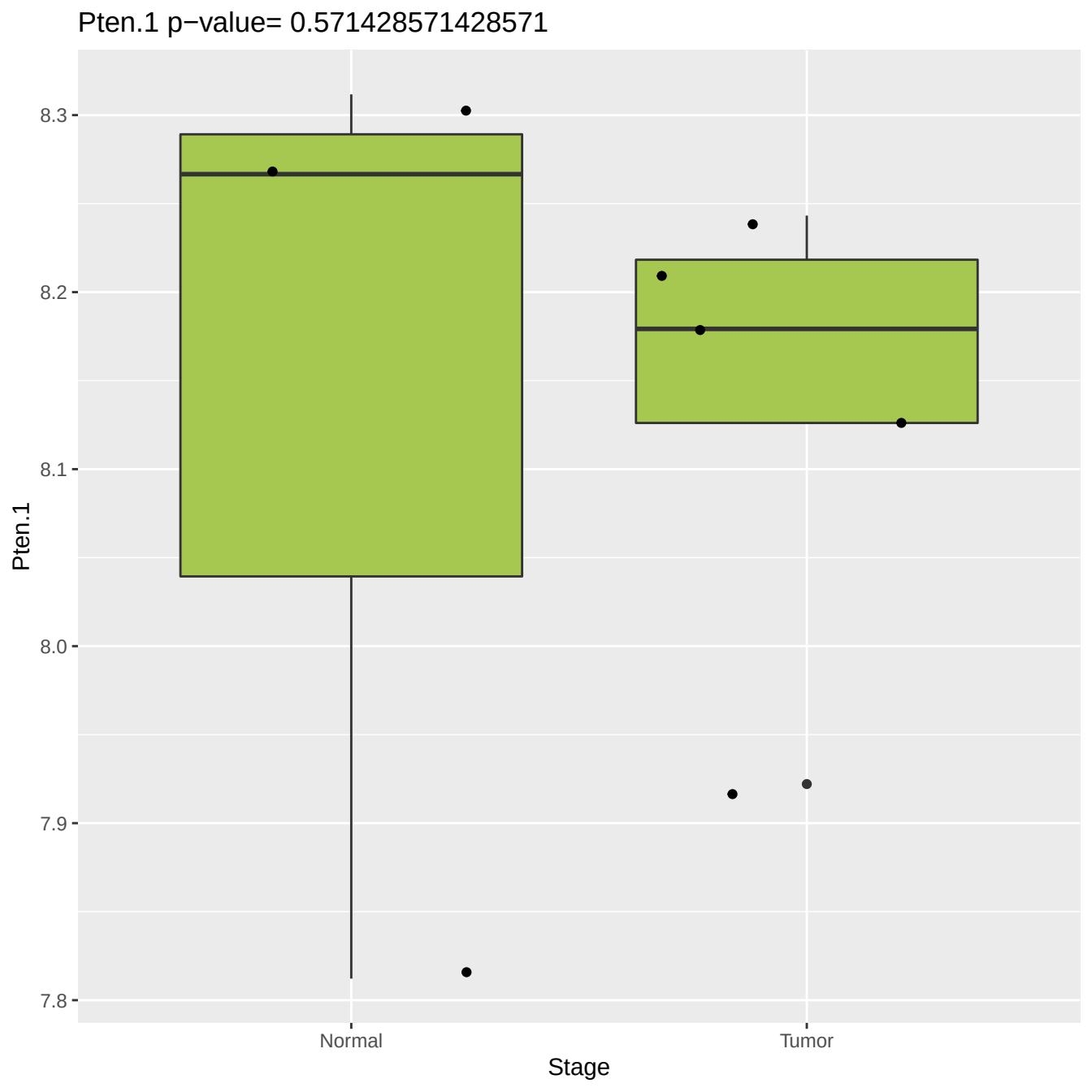

Vegfa
Sensitivity (%)
100
80
60
40
20
0
11.0 (100.0%, 80.0%)
AUC: 80.0%
100
80
60
40
20
0
Specificity (%)

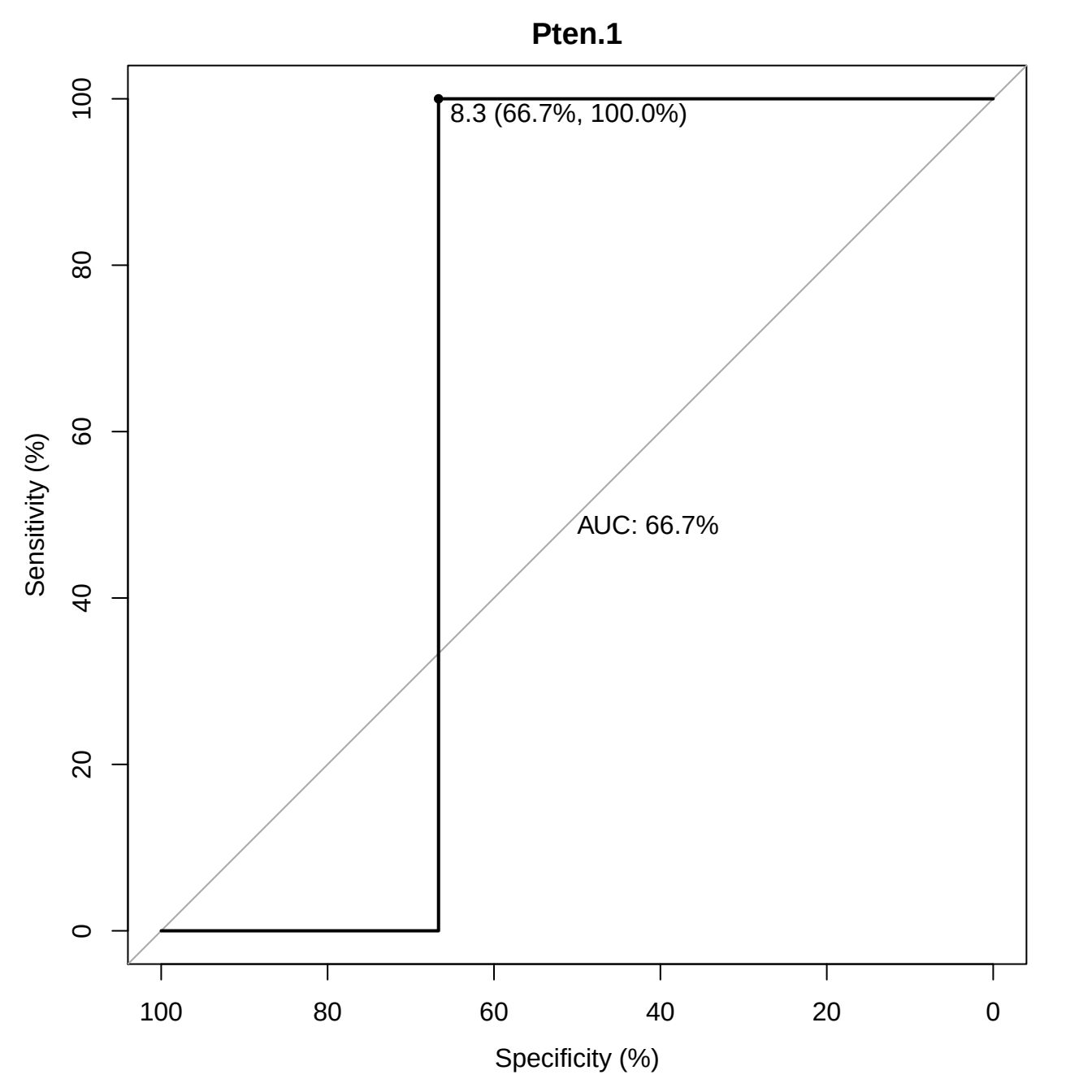

Men1 p−value= 0.25
9.5
9.4
9.3
9.2
9.1
Men1
Normal
Tumor
Stage

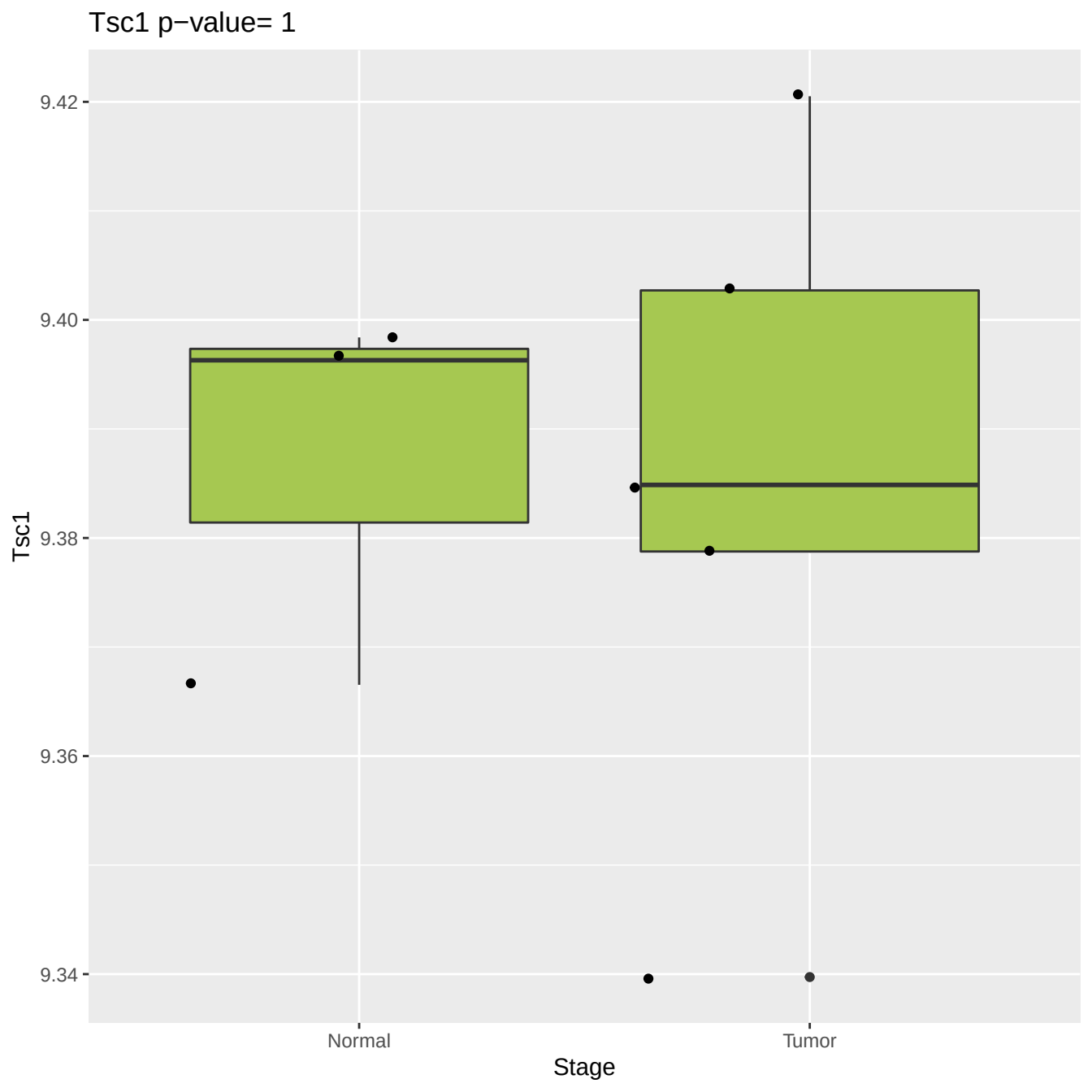

Men1
Sensitivity (%)
100
80
60
40
20
0
9.3 (100.0%, 80.0%)
AUC: 80.0%
100
80
60
40
20
0
Specificity (%)

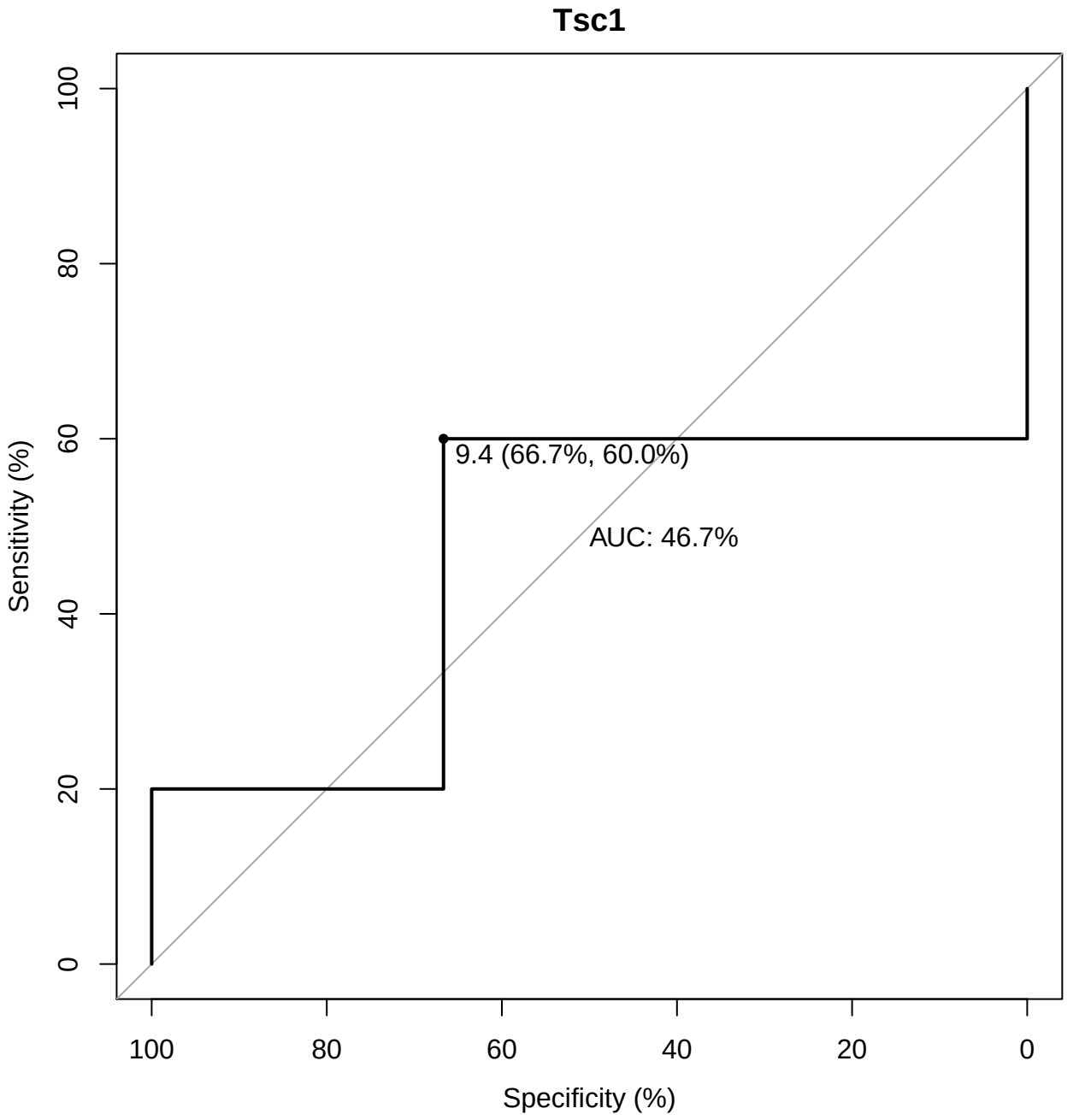

Pten p−value= 0.571428571428571
11.0
10.9
10.8
10.7
Pten
Normal
Tumor
Stage

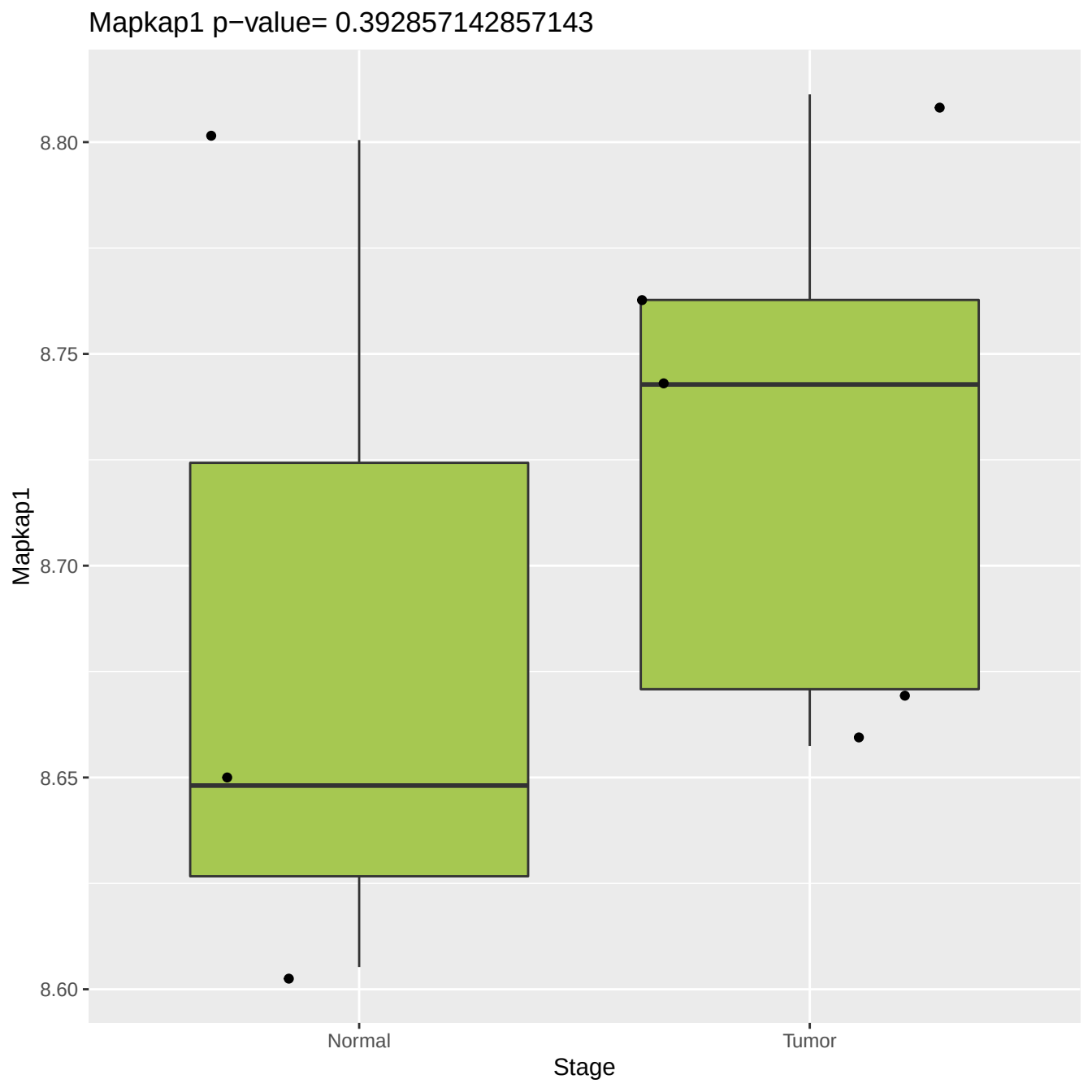

Pten
Sensitivity (%)
100
80
60
40
20
0
AUC: 66.7%
11.0 (100.0%, 40.0%)
100
80
60
40
20
0
Specificity (%)

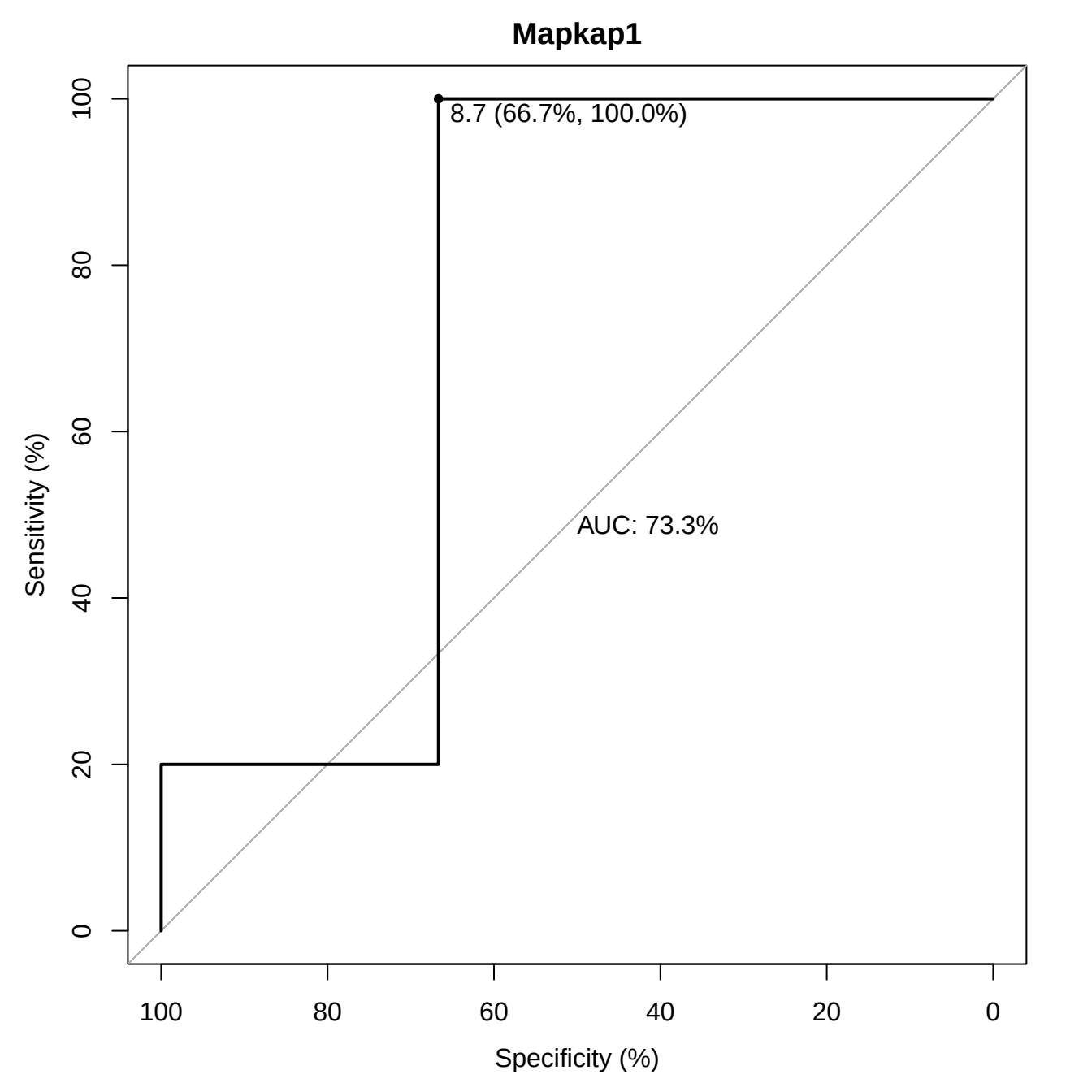

Pten.1 p−value= 0.571428571428571
8.3
8.2
8.1
8.0
7.9
7.8
Pten.1
Normal
Tumor
Stage

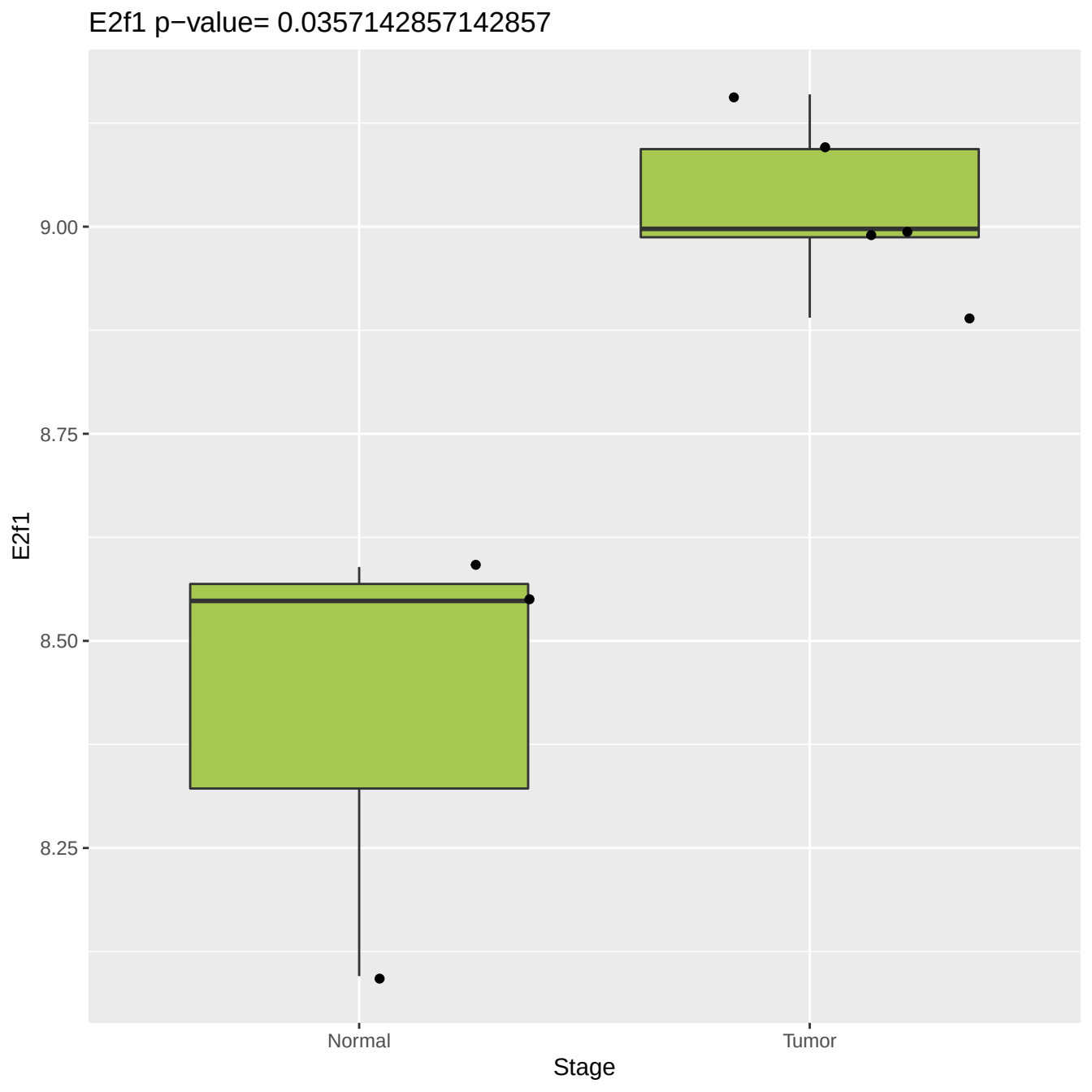

Pten.1
8.3 (66.7%, 100.0%)
AUC: 66.7%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

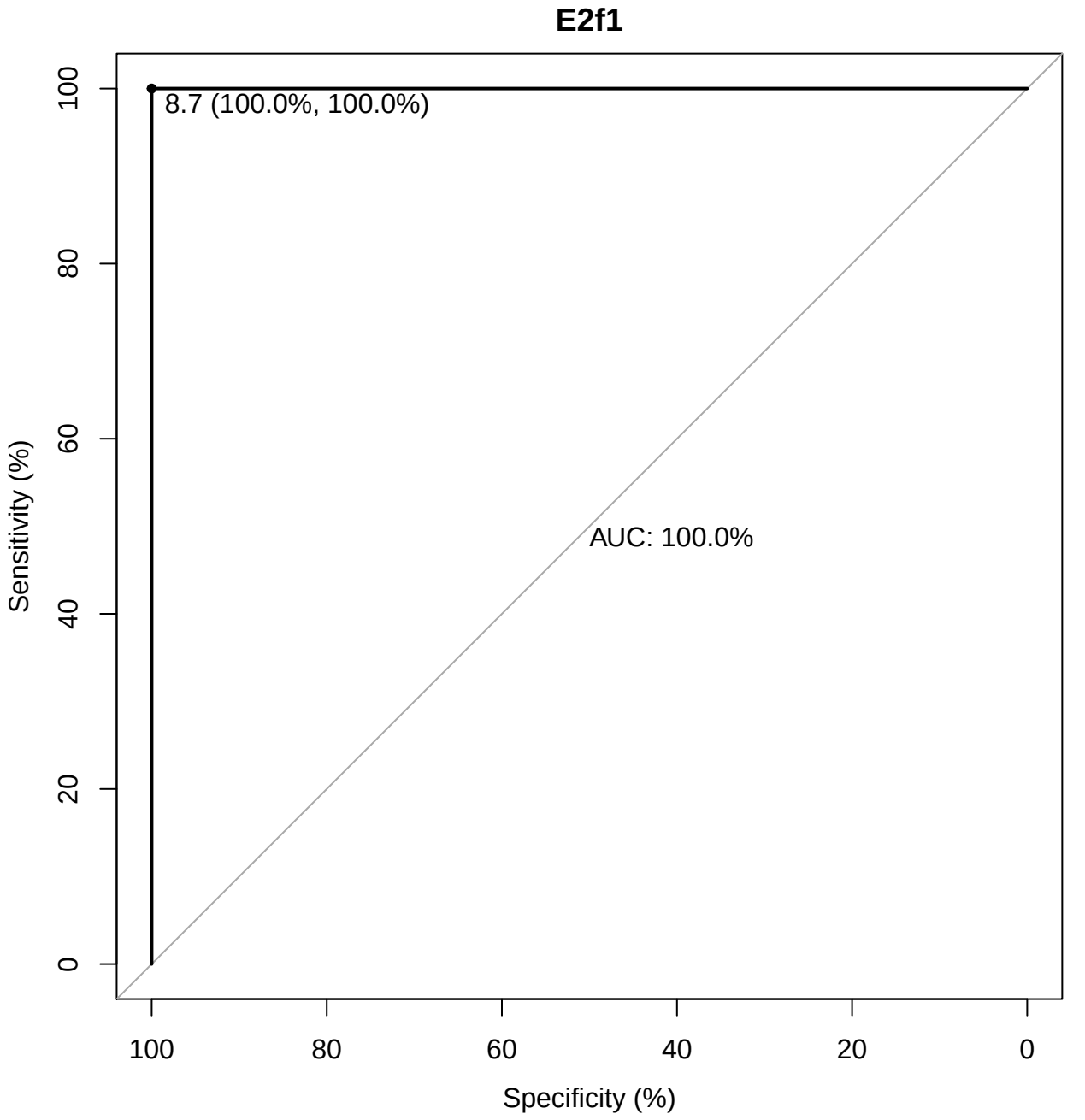

Tsc1 p−value= 1
9.42
9.40
9.38
9.36
9.34
Tsc1
Normal
Tumor
Stage

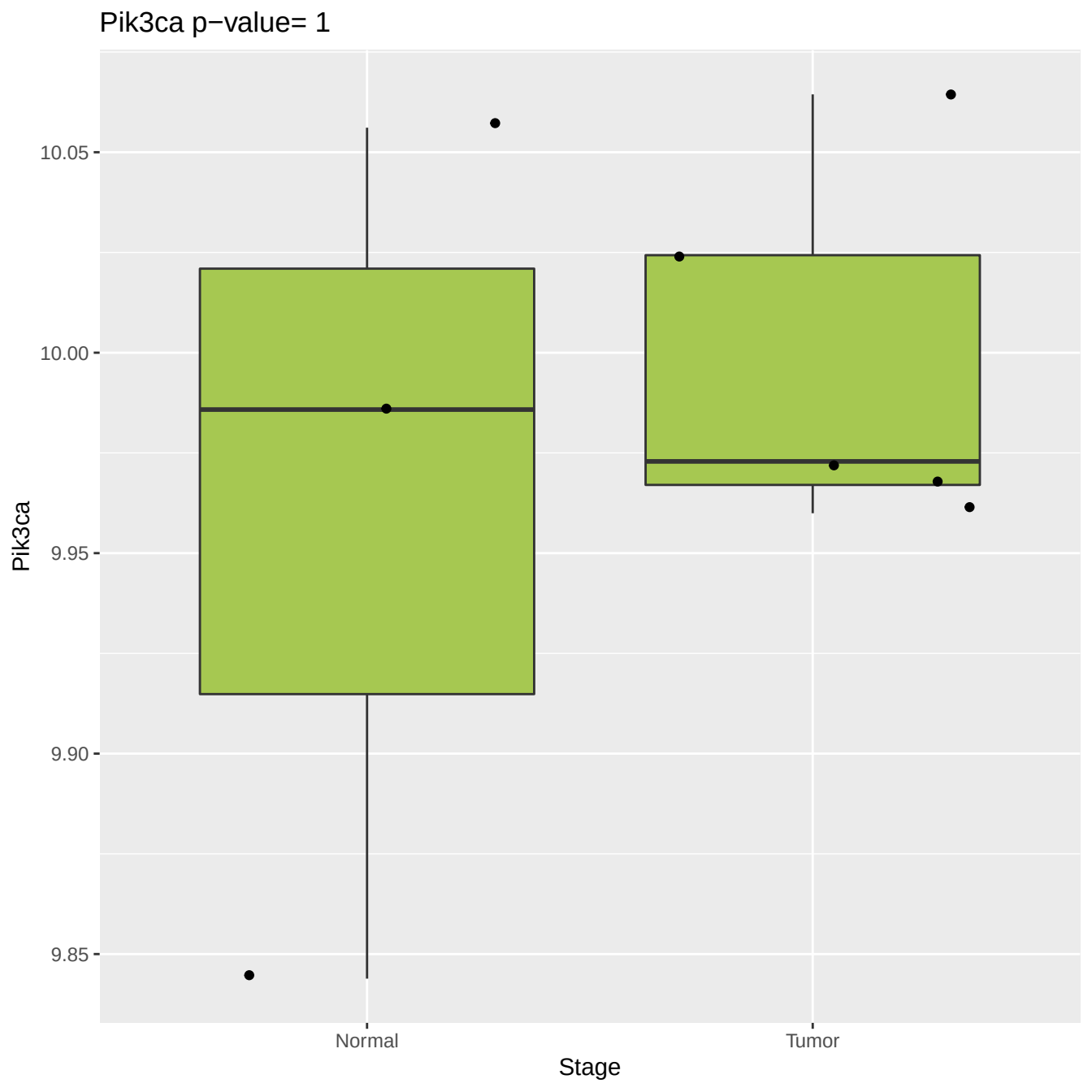

Tsc1
Sensitivity (%)
100
80
60
40
20
0
9.4 (66.7%, 60.0%)
AUC: 46.7%
100
80
60
40
20
0
Specificity (%)

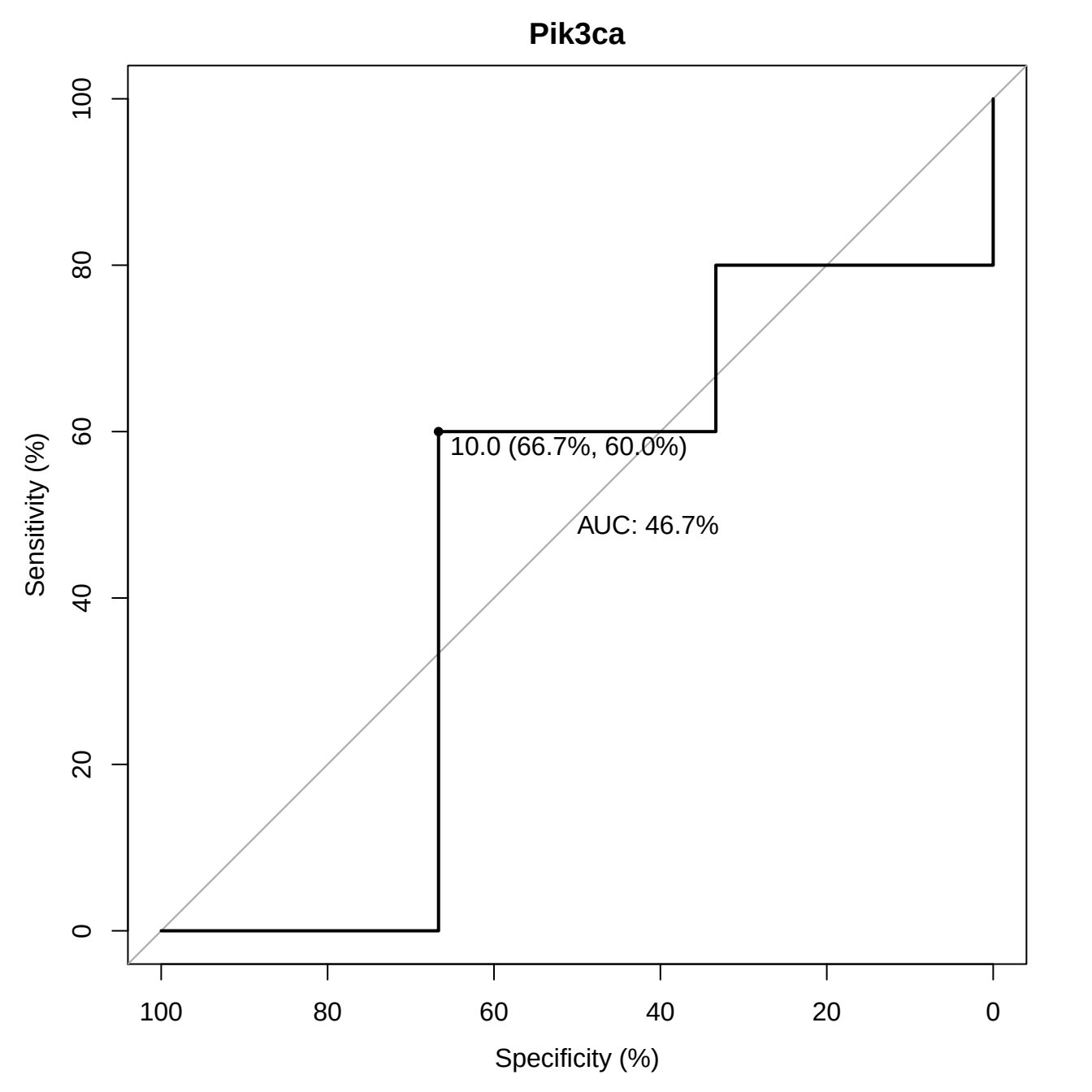

Mapkap1 p−value= 0.392857142857143
8.80
8.75
8.70
8.65
8.60
Mapkap1
Normal
Tumor
Stage

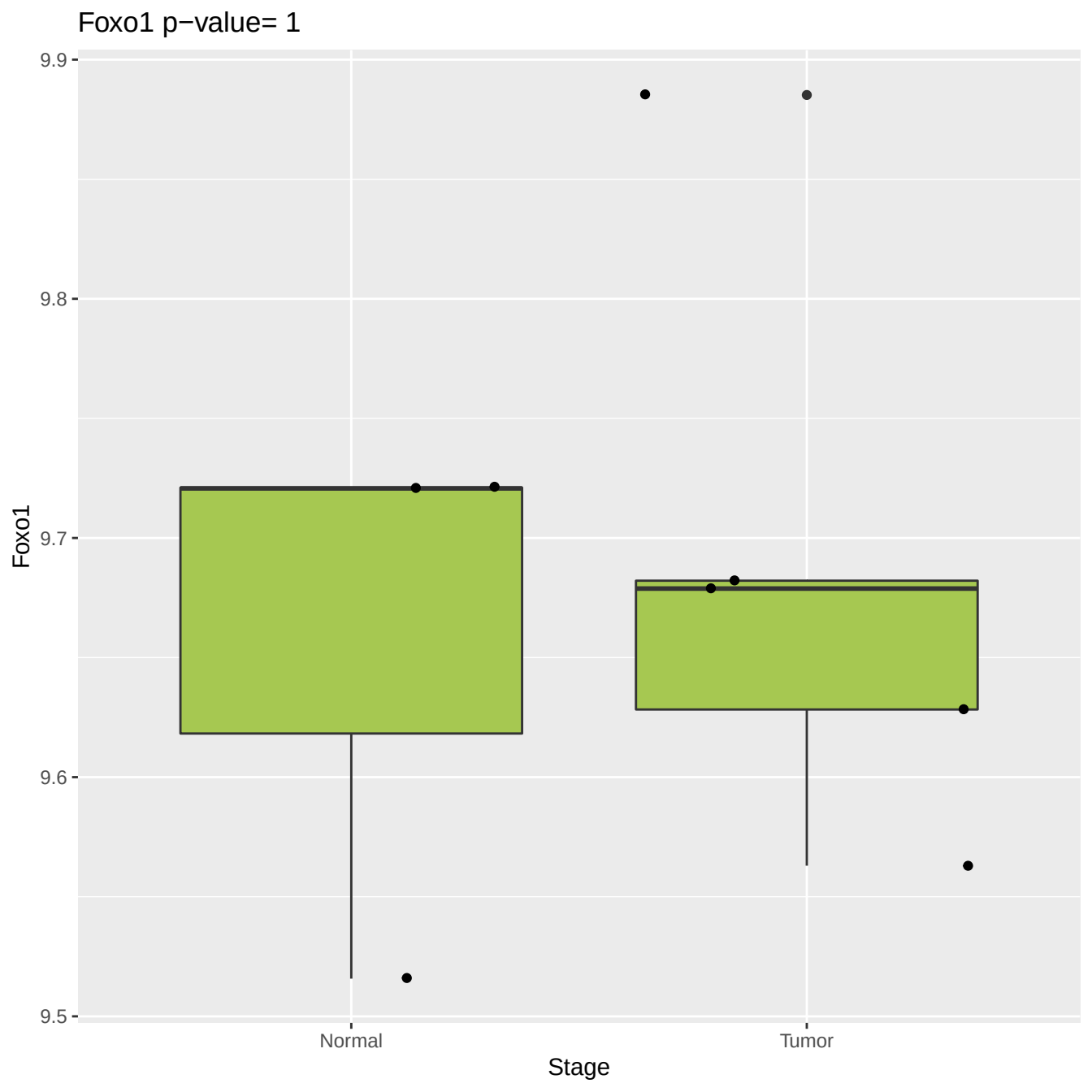

Mapkap1
8.7 (66.7%, 100.0%)
AUC: 73.3%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

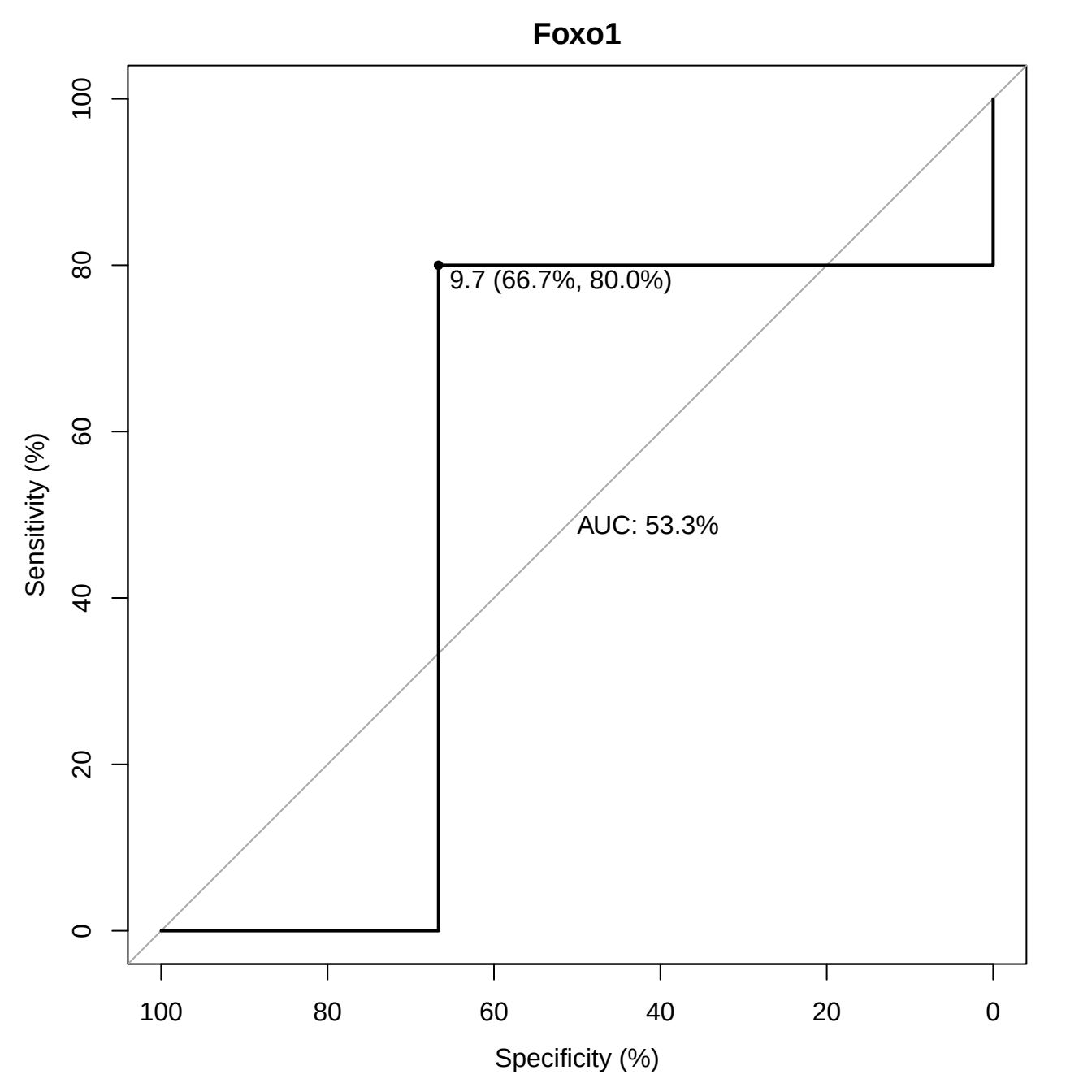

E2f1 p−value= 0.0357142857142857
9.00
8.75
8.50
8.25
E2f1
Normal
Tumor
Stage

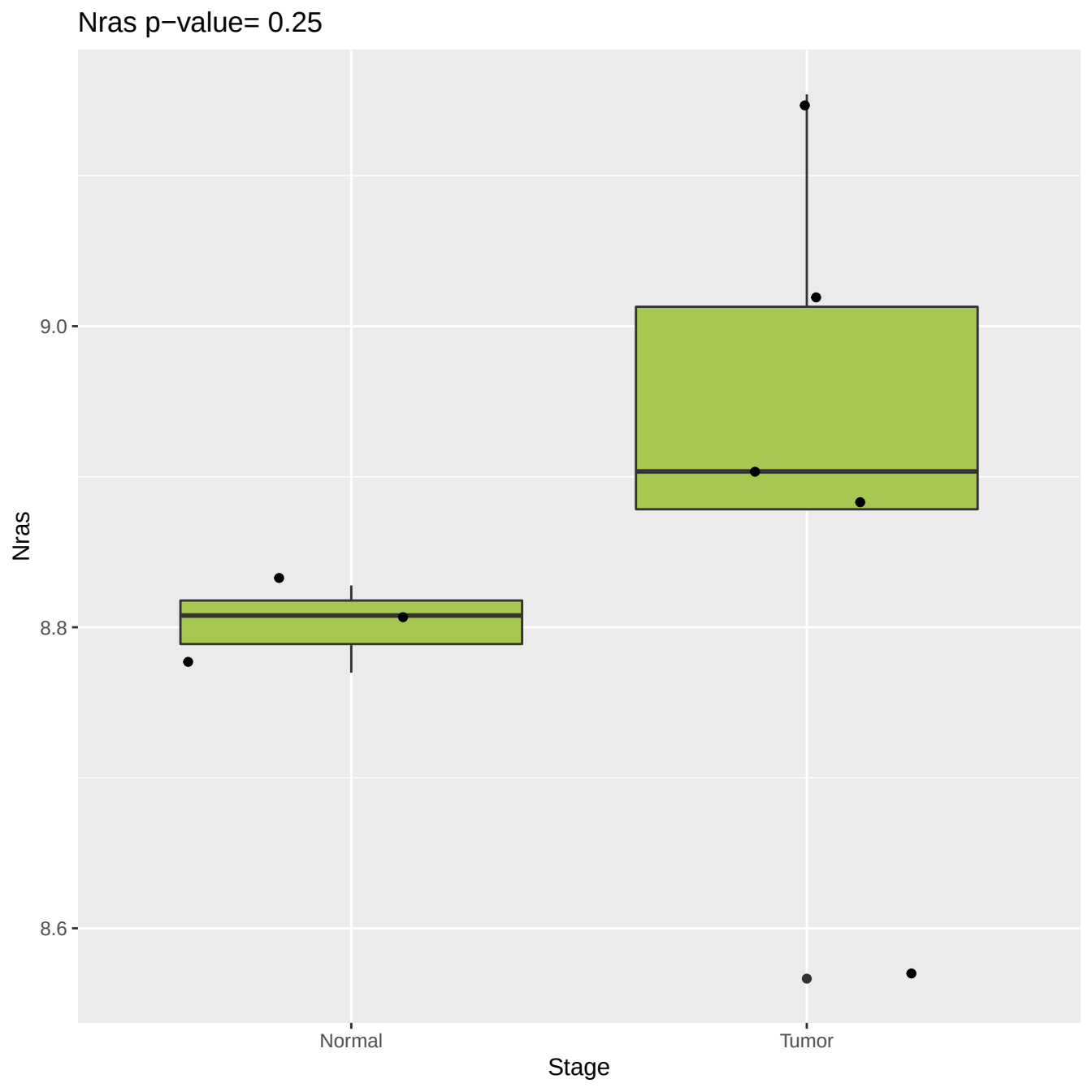

E2f1
8.7 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

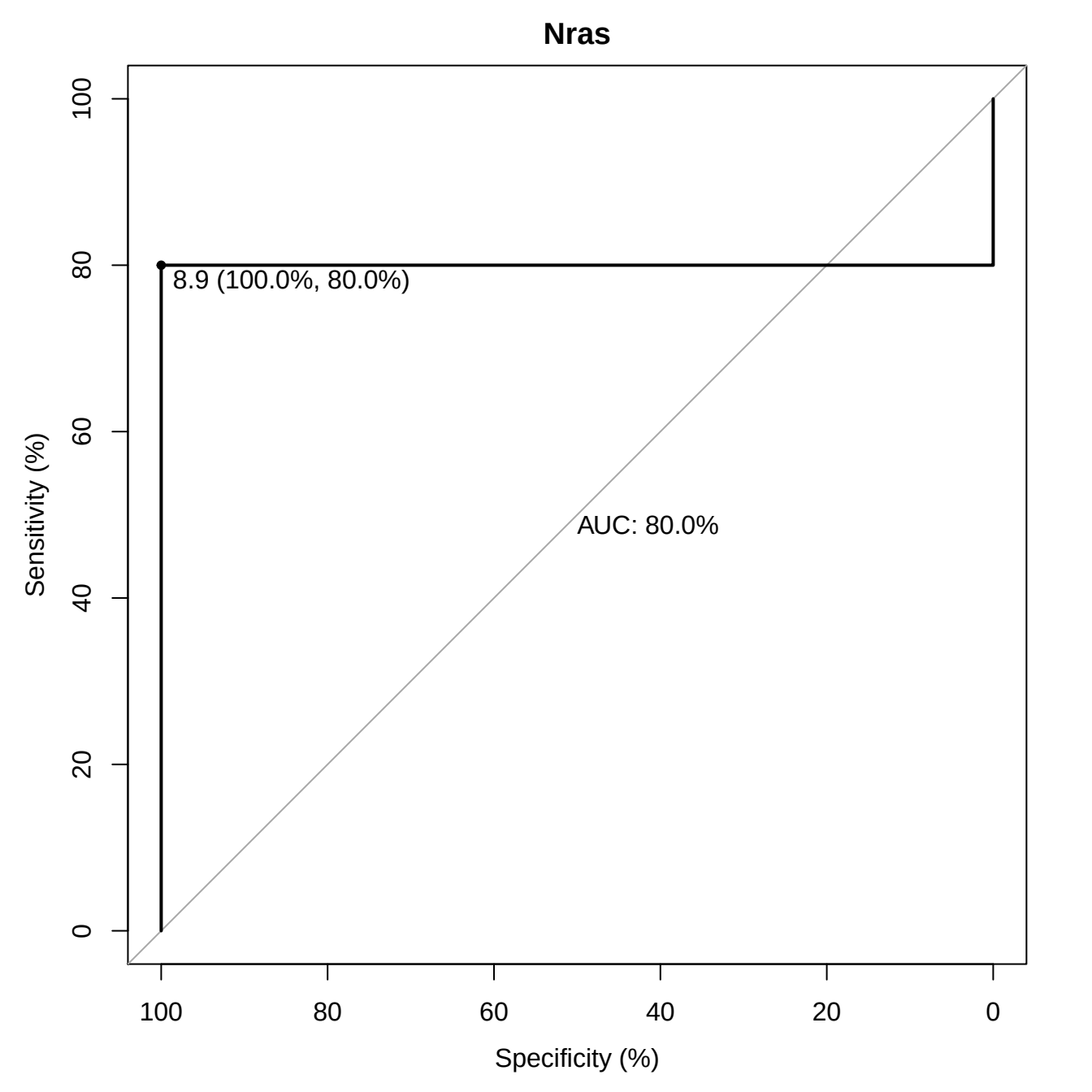

Pik3ca p−value= 1
10.05
10.00
9.95
9.90
9.85
Pik3ca
Normal
Tumor
Stage

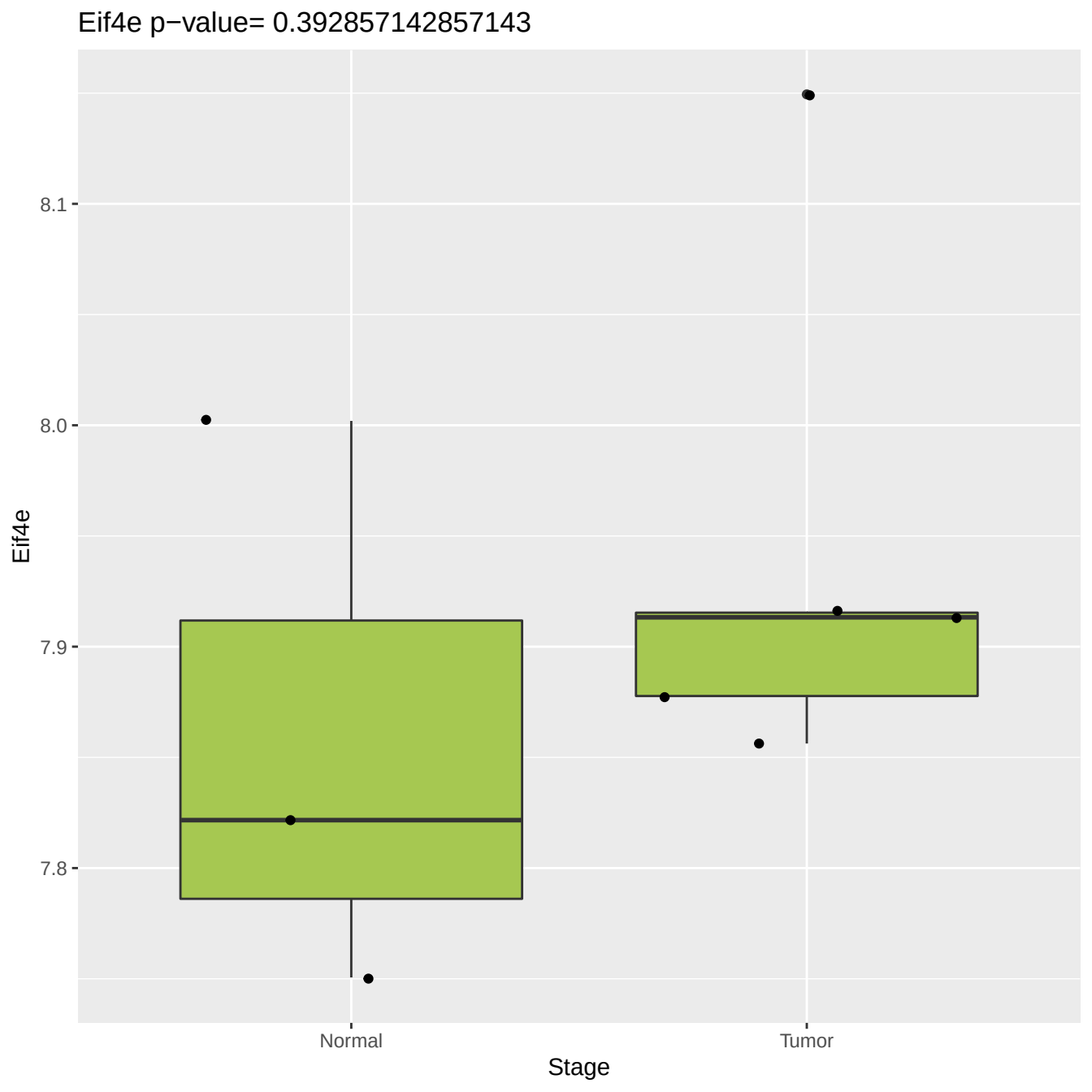

Pik3ca
Sensitivity (%)
100
80
60
40
20
0
10.0 (66.7%, 60.0%)
AUC: 46.7%
100
80
60
40
20
0
Specificity (%)

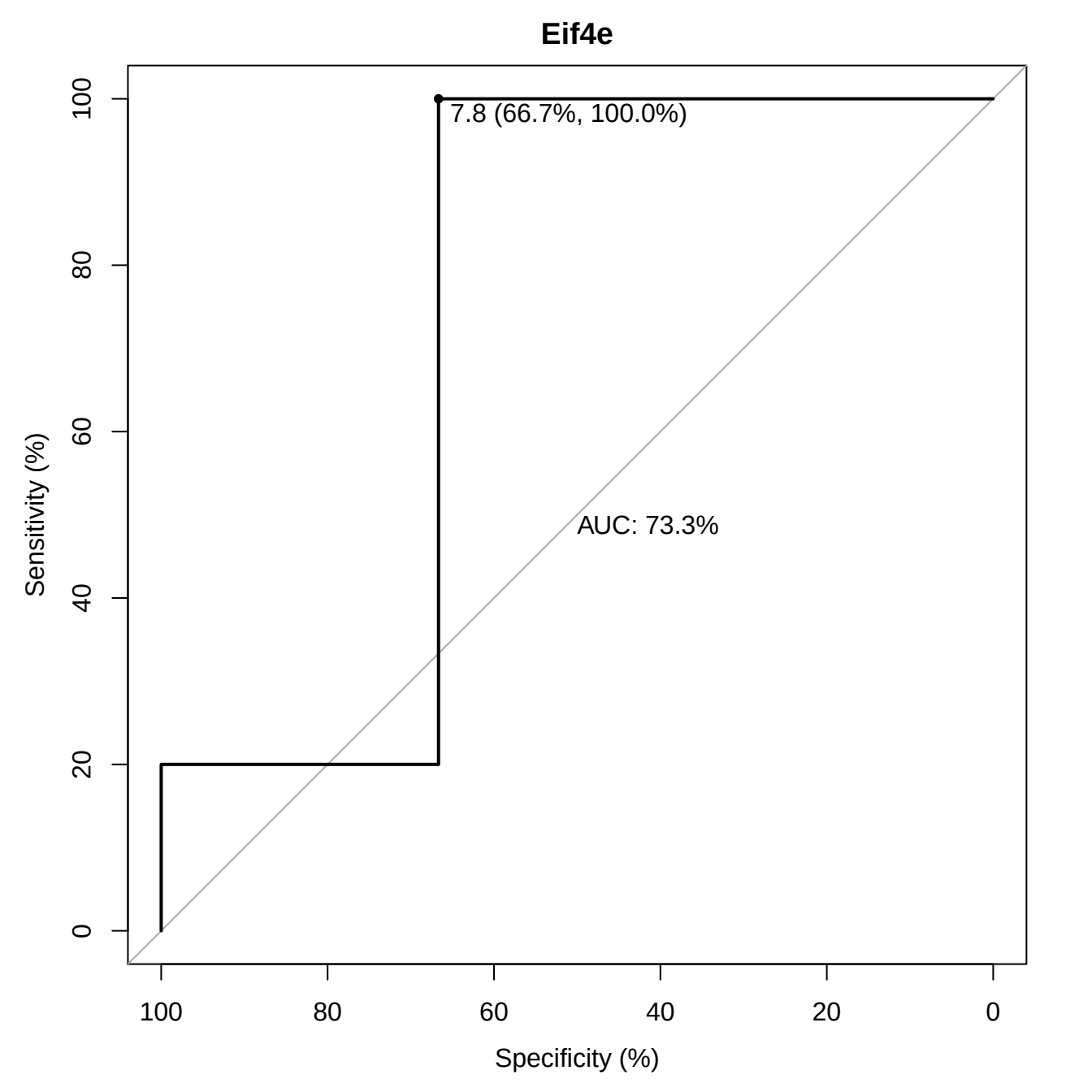

Foxo1 p−value= 1
9.9
9.8
9.7
9.6
9.5
Foxo1
Normal
Tumor
Stage

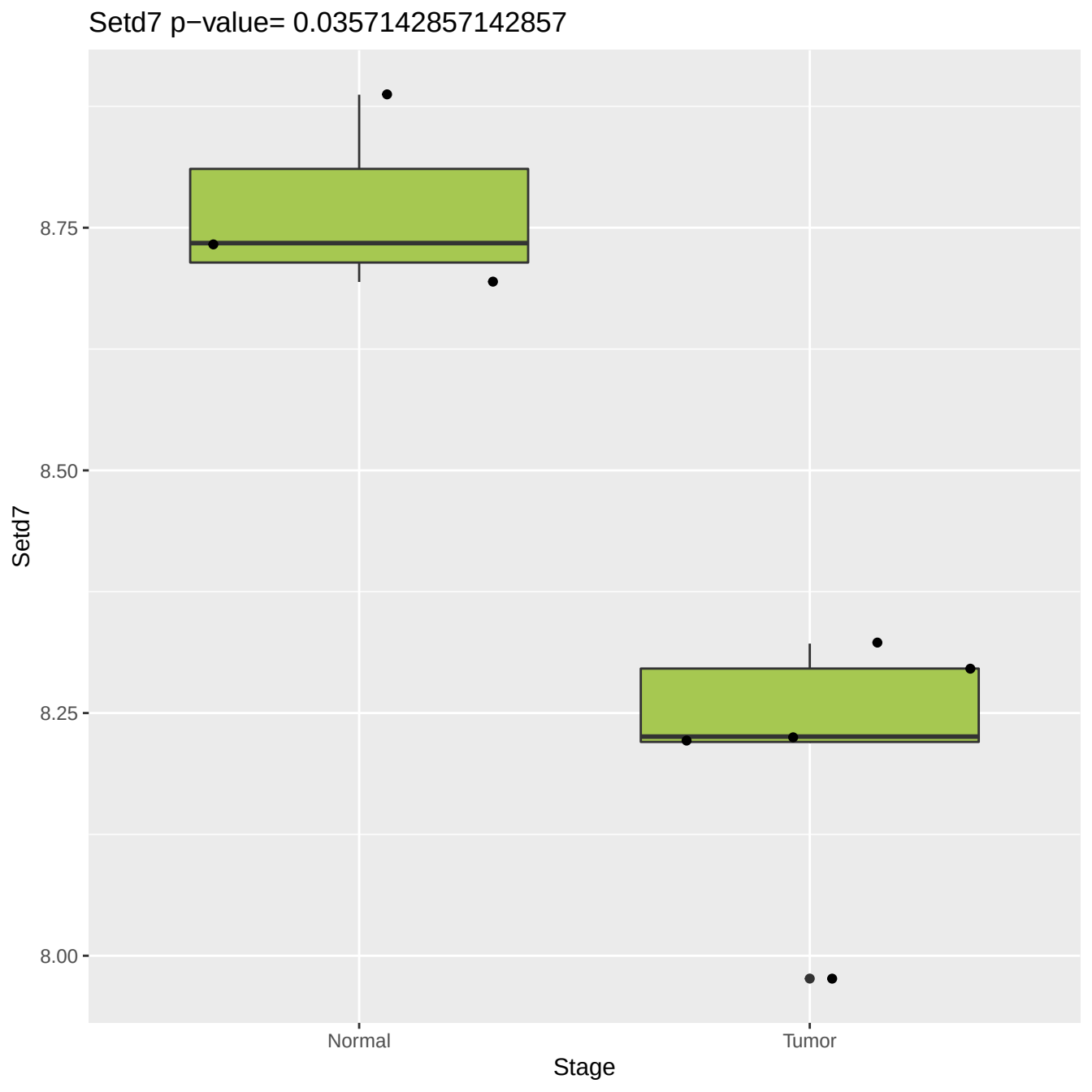

Foxo1
Sensitivity (%)
100
80
60
40
20
0
9.7 (66.7%, 80.0%)
AUC: 53.3%
100
80
60
40
20
0
Specificity (%)

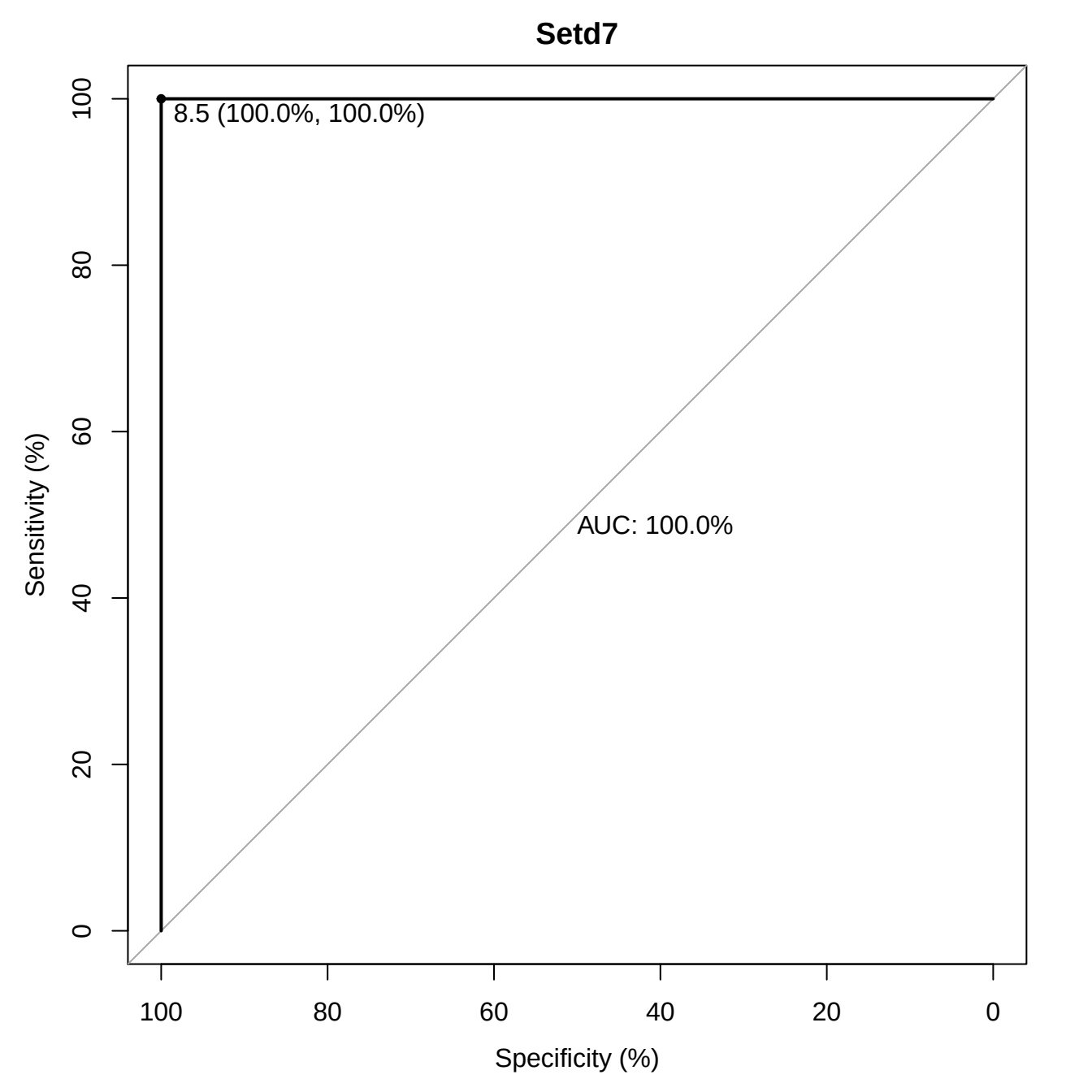

Nras p−value= 0.25
9.0
8.8
8.6
Nras
Normal
Tumor
Stage

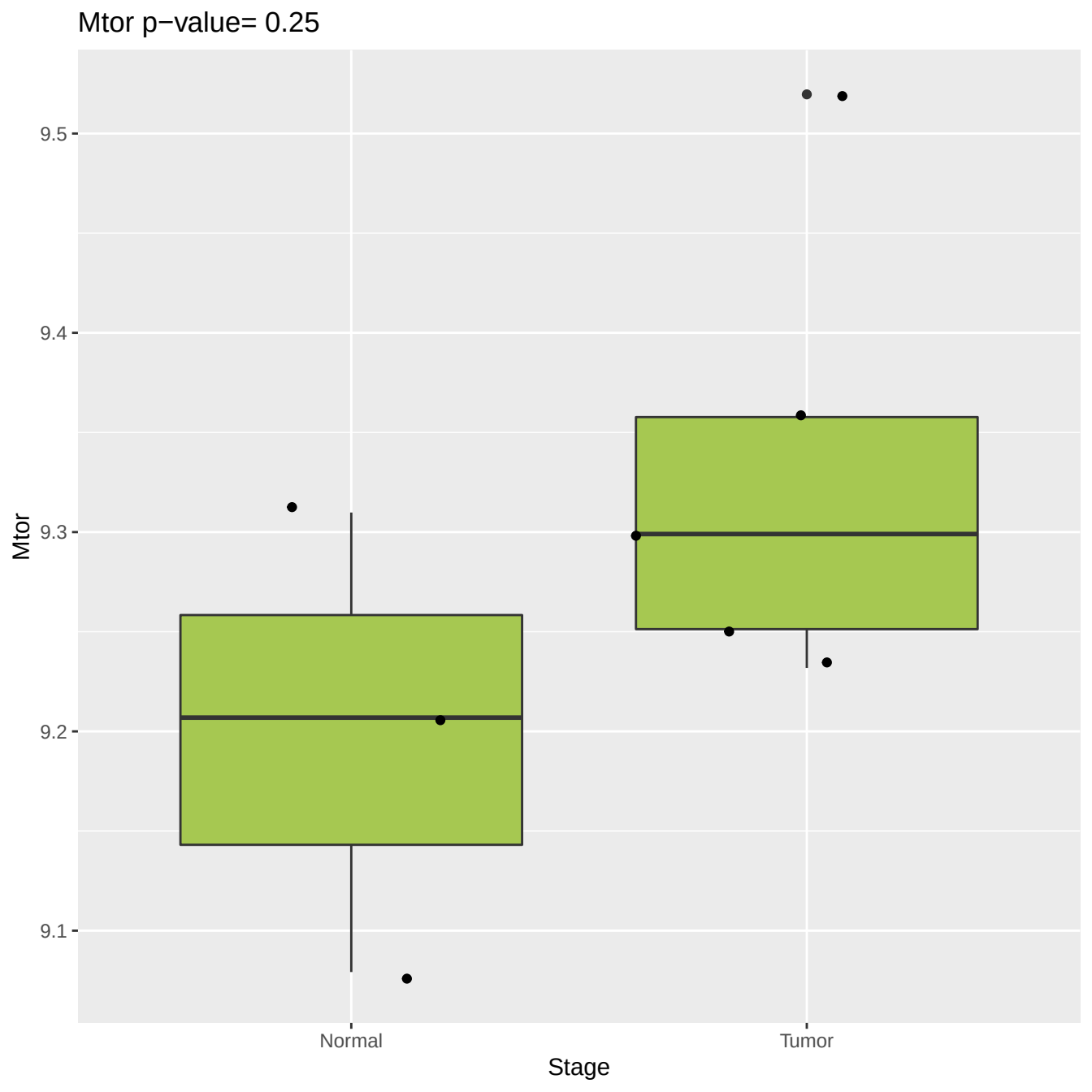

Nras
Sensitivity (%)
100
80
60
40
20
0
8.9 (100.0%, 80.0%)
AUC: 80.0%
100
80
60
40
20
0
Specificity (%)

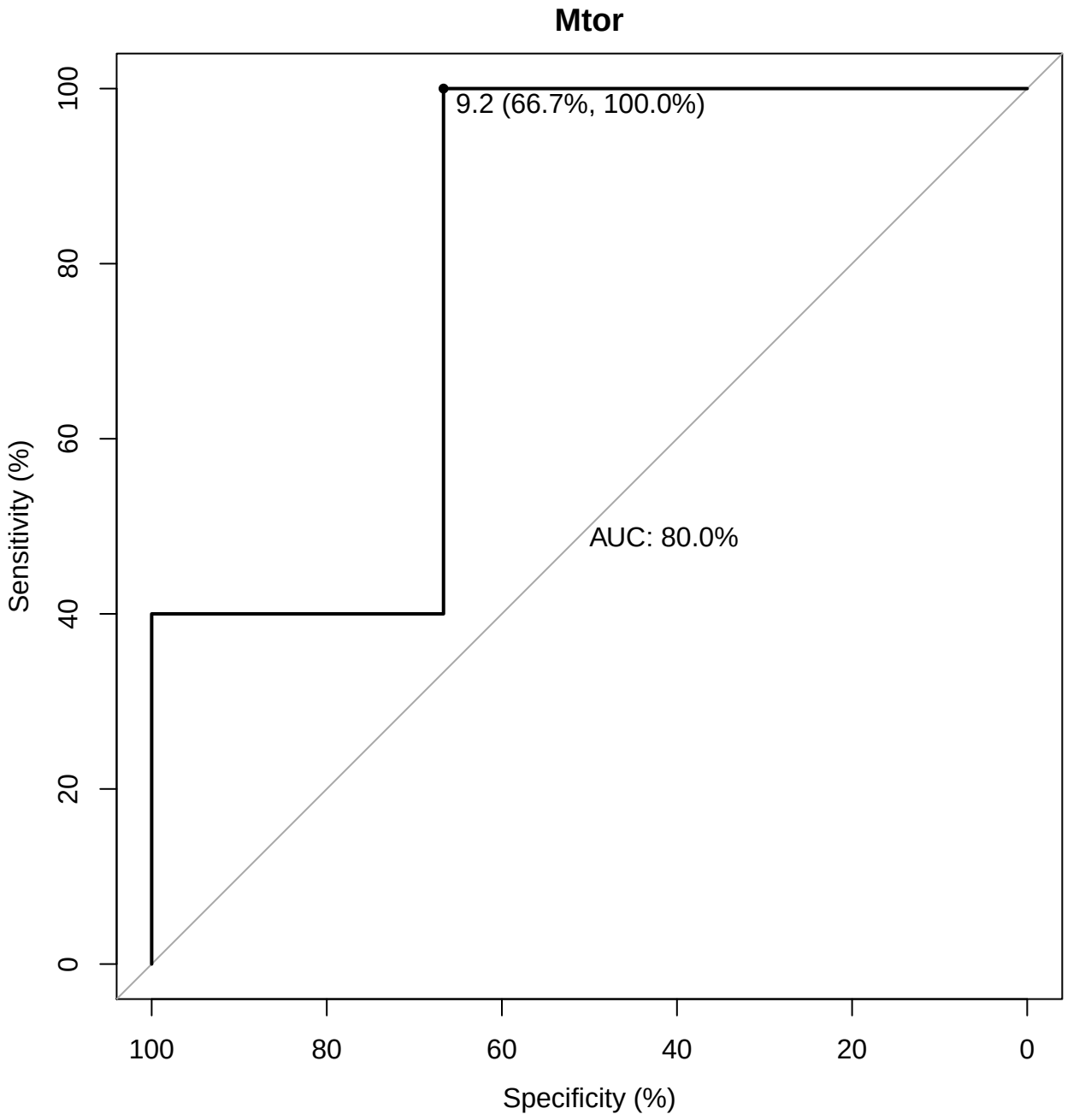

Eif4e p−value= 0.392857142857143
8.1
8.0
7.9
7.8
Eif4e
Normal
Tumor
Stage

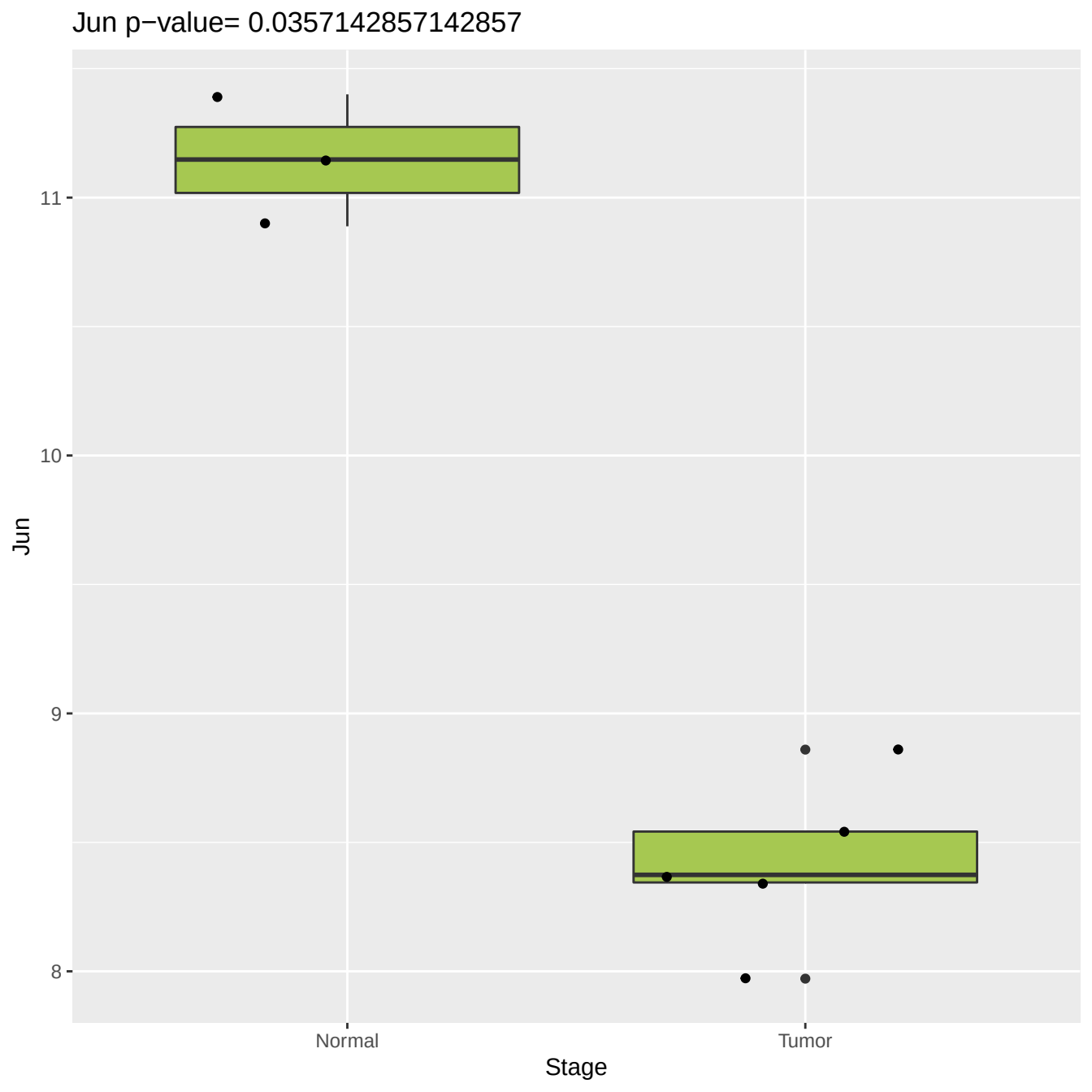

Eif4e
7.8 (66.7%, 100.0%)
AUC: 73.3%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

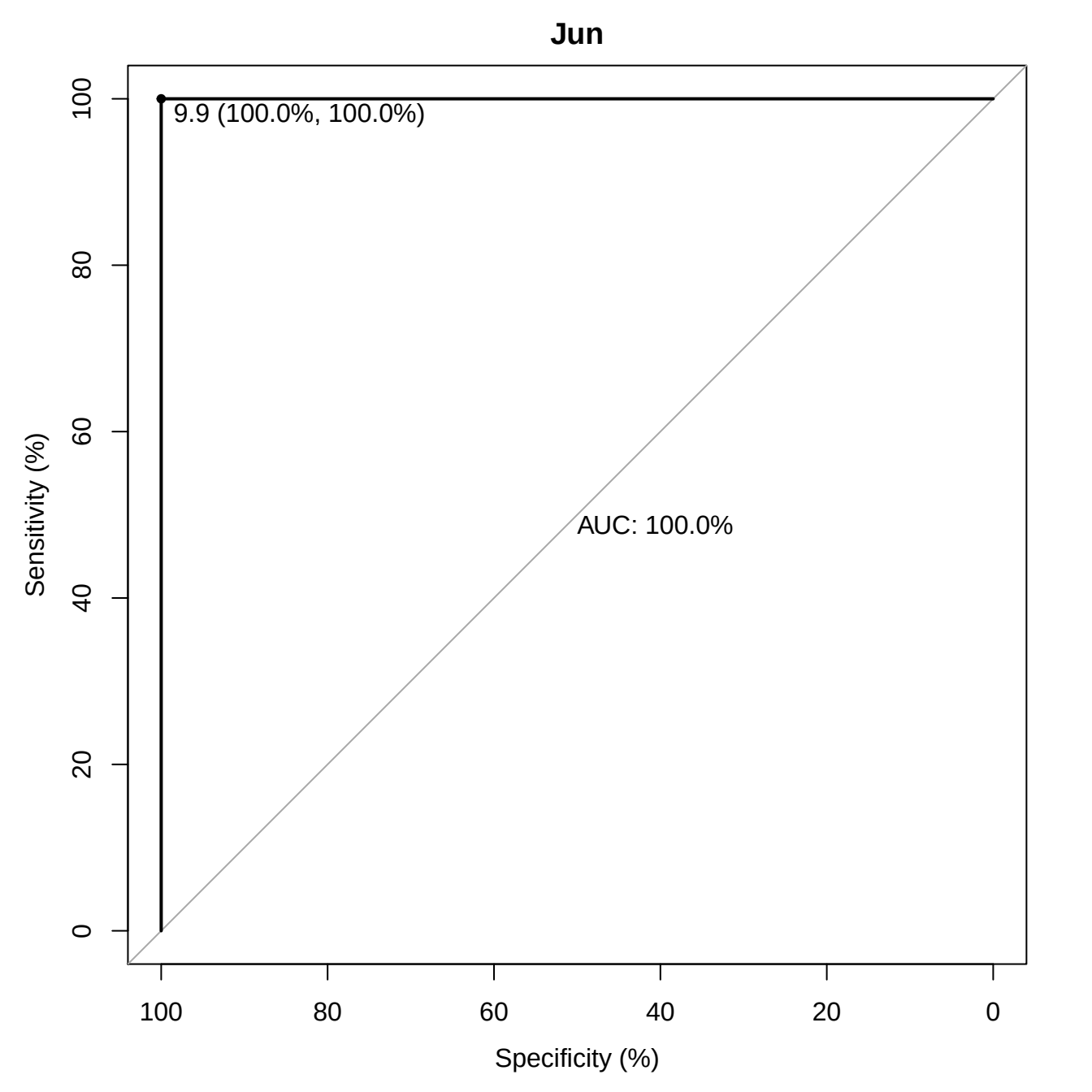

Setd7 p−value= 0.0357142857142857
8.75
8.50
8.25
8.00
Setd7
Normal
Tumor
Stage

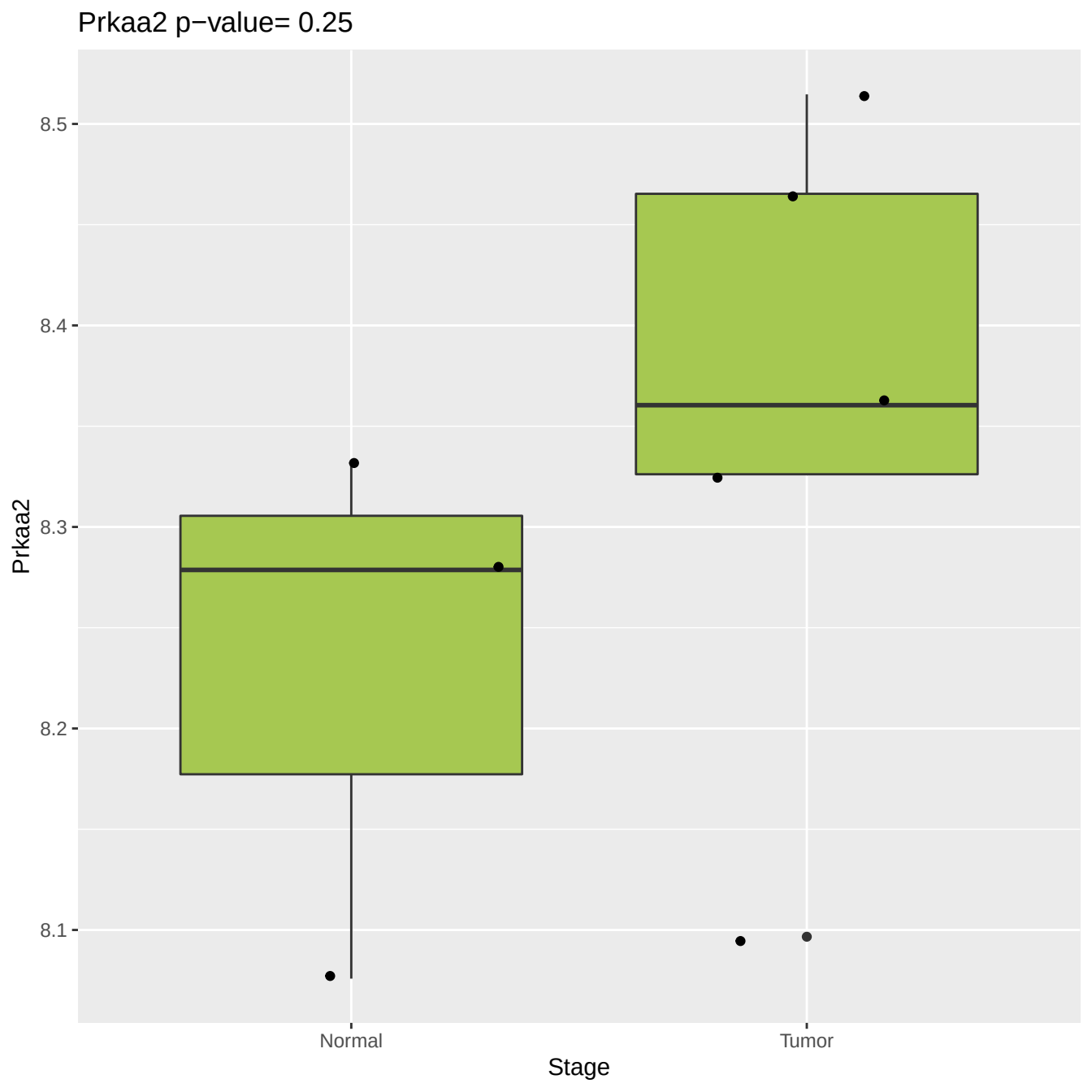

Setd7
8.5 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

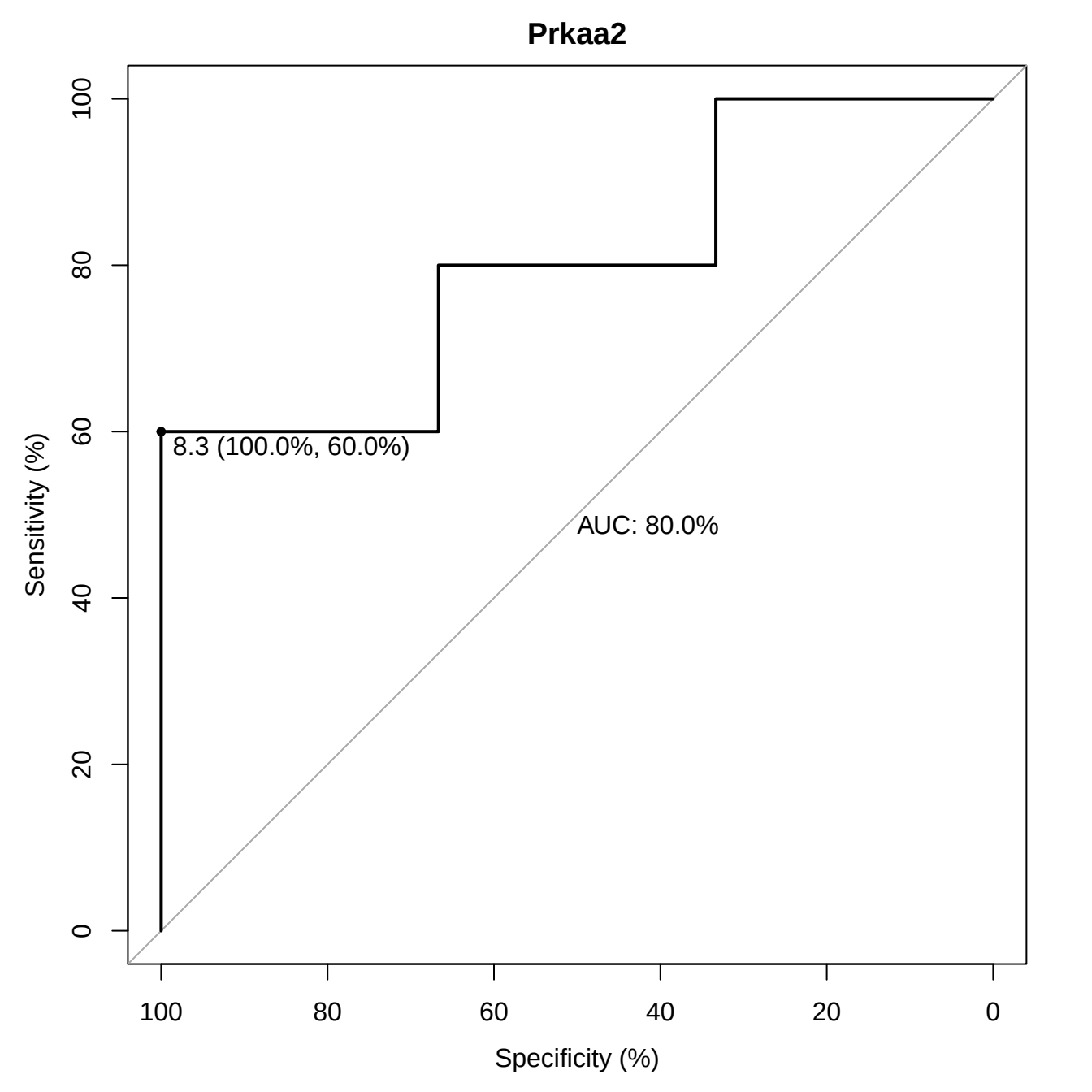

Mtor p−value= 0.25
9.5
9.4
9.3
9.2
9.1
Mtor
Normal
Tumor
Stage

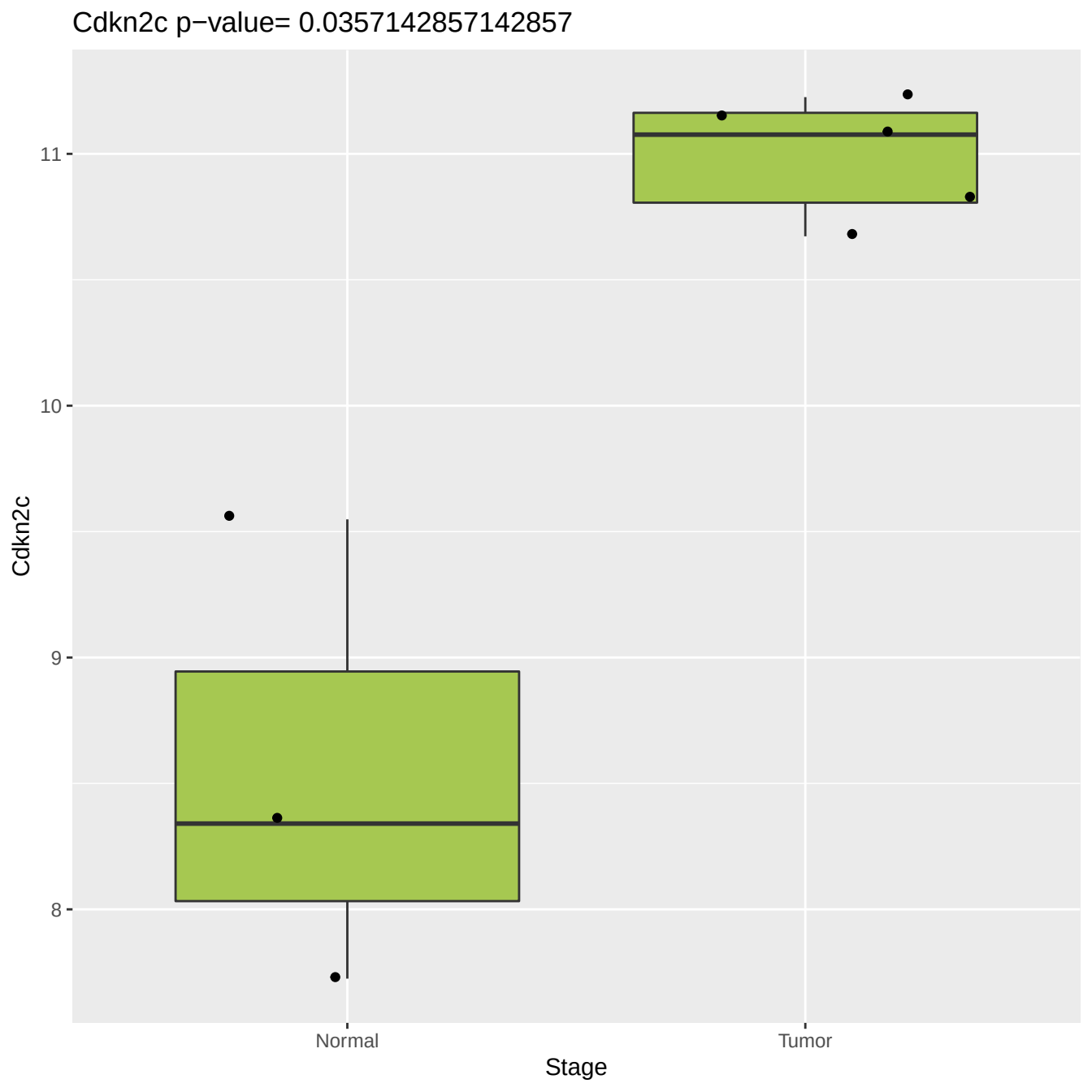

Mtor
9.2 (66.7%, 100.0%)
AUC: 80.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

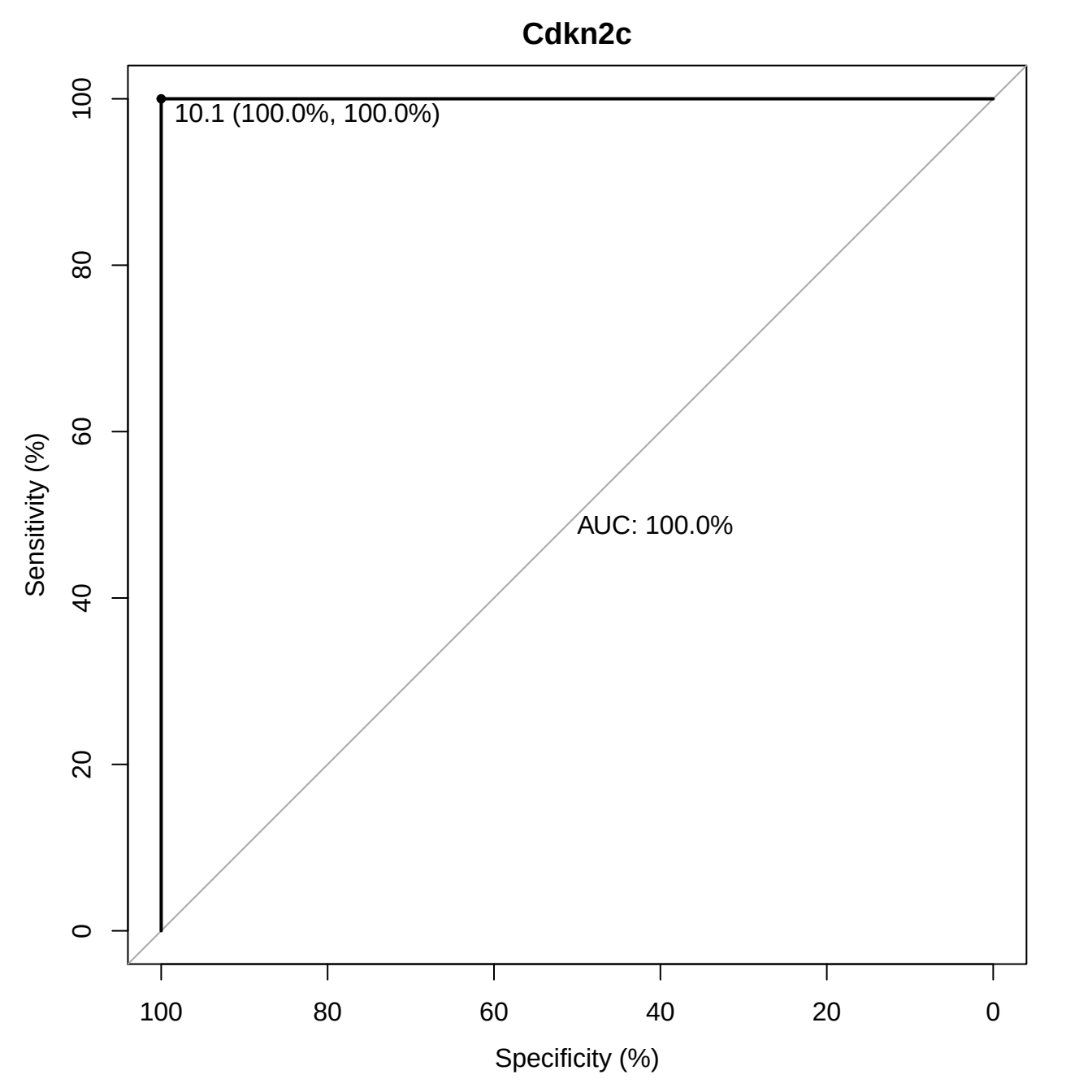

Jun p−value= 0.0357142857142857
11
10
9
8
Jun
Normal
Tumor
Stage

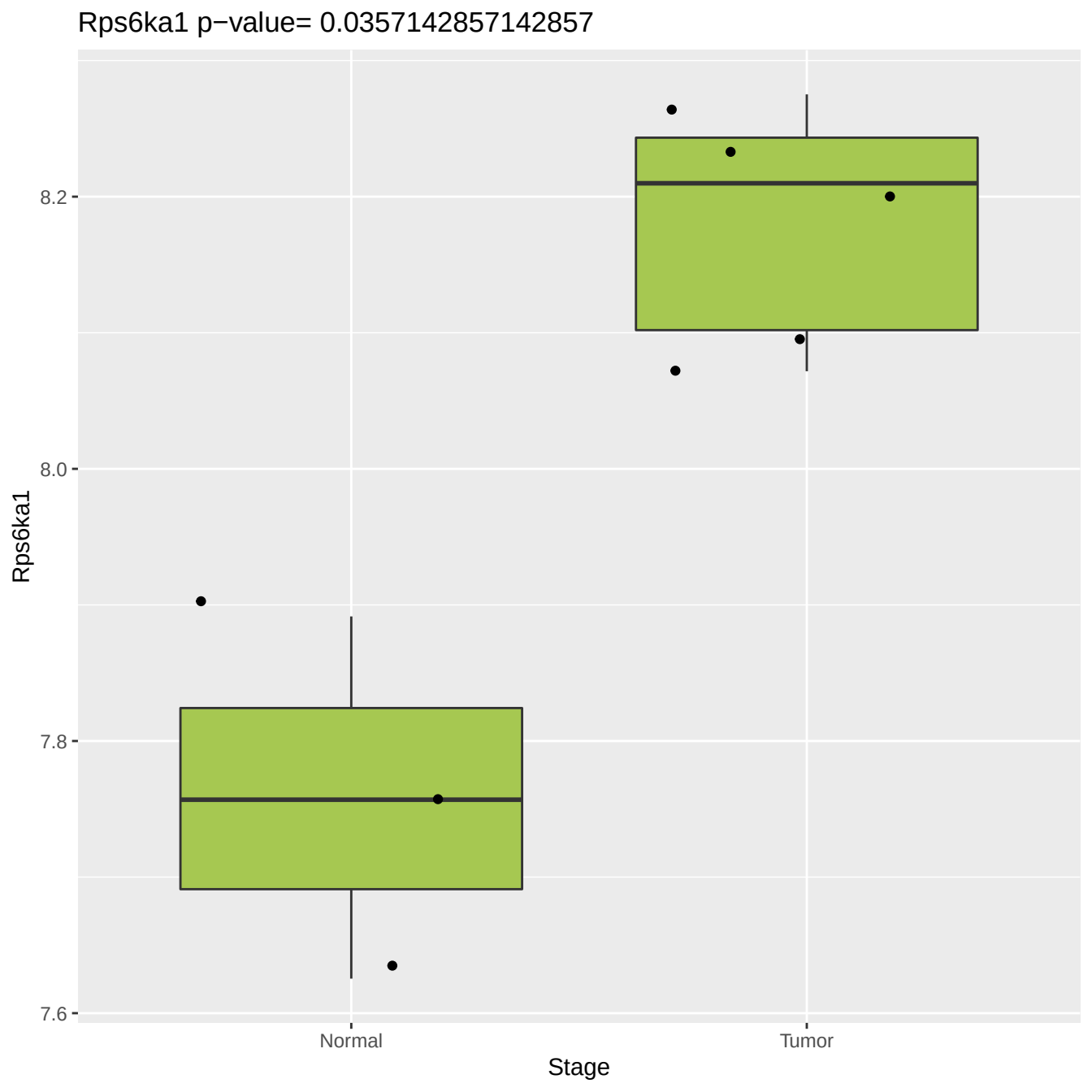

Jun
9.9 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

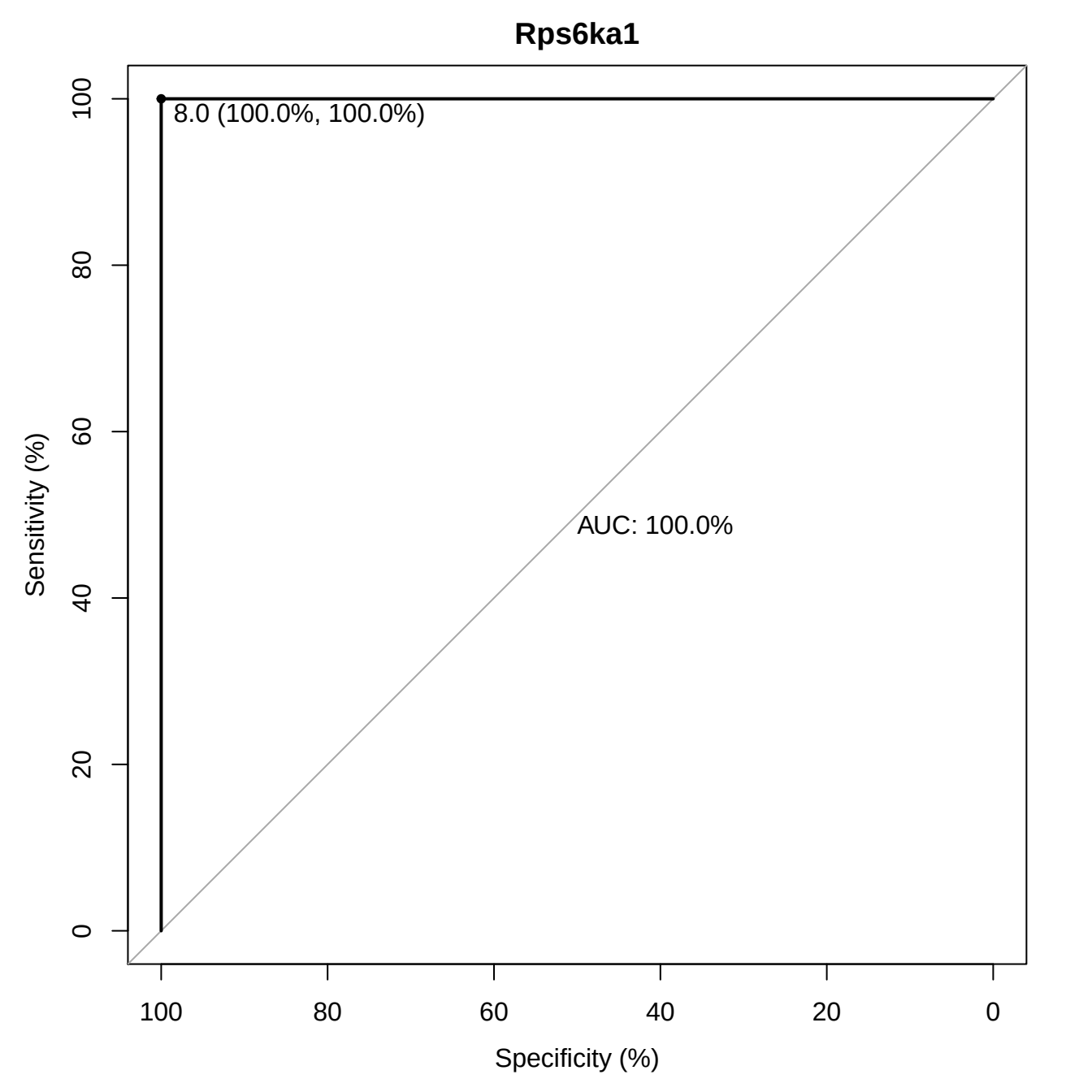

Prkaa2 p−value= 0.25
8.5
8.4
8.3
8.2
8.1
Prkaa2
Normal
Tumor
Stage

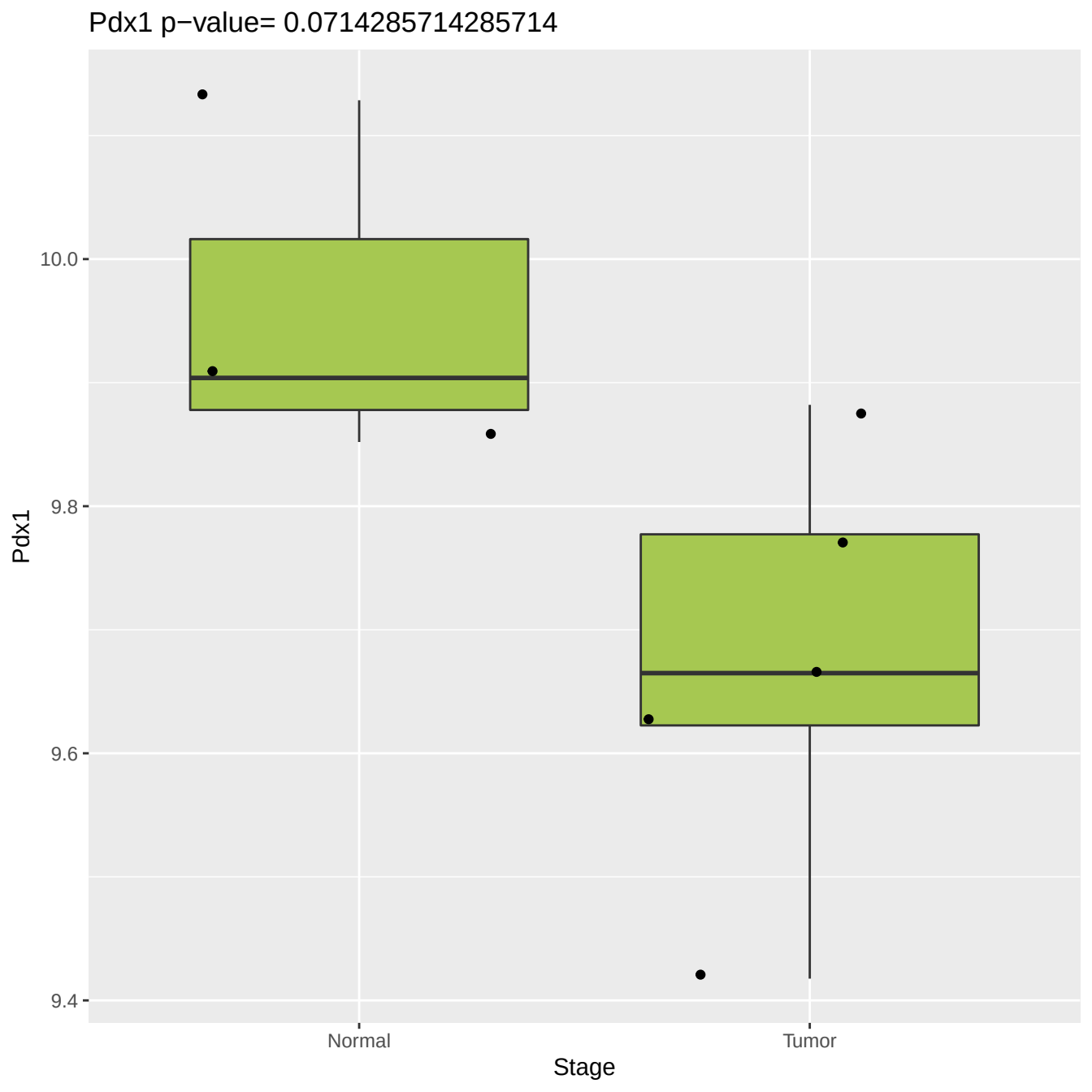

Prkaa2
Sensitivity (%)
100
80
60
40
20
0
8.3 (100.0%, 60.0%)
AUC: 80.0%
100
80
60
40
20
0
Specificity (%)

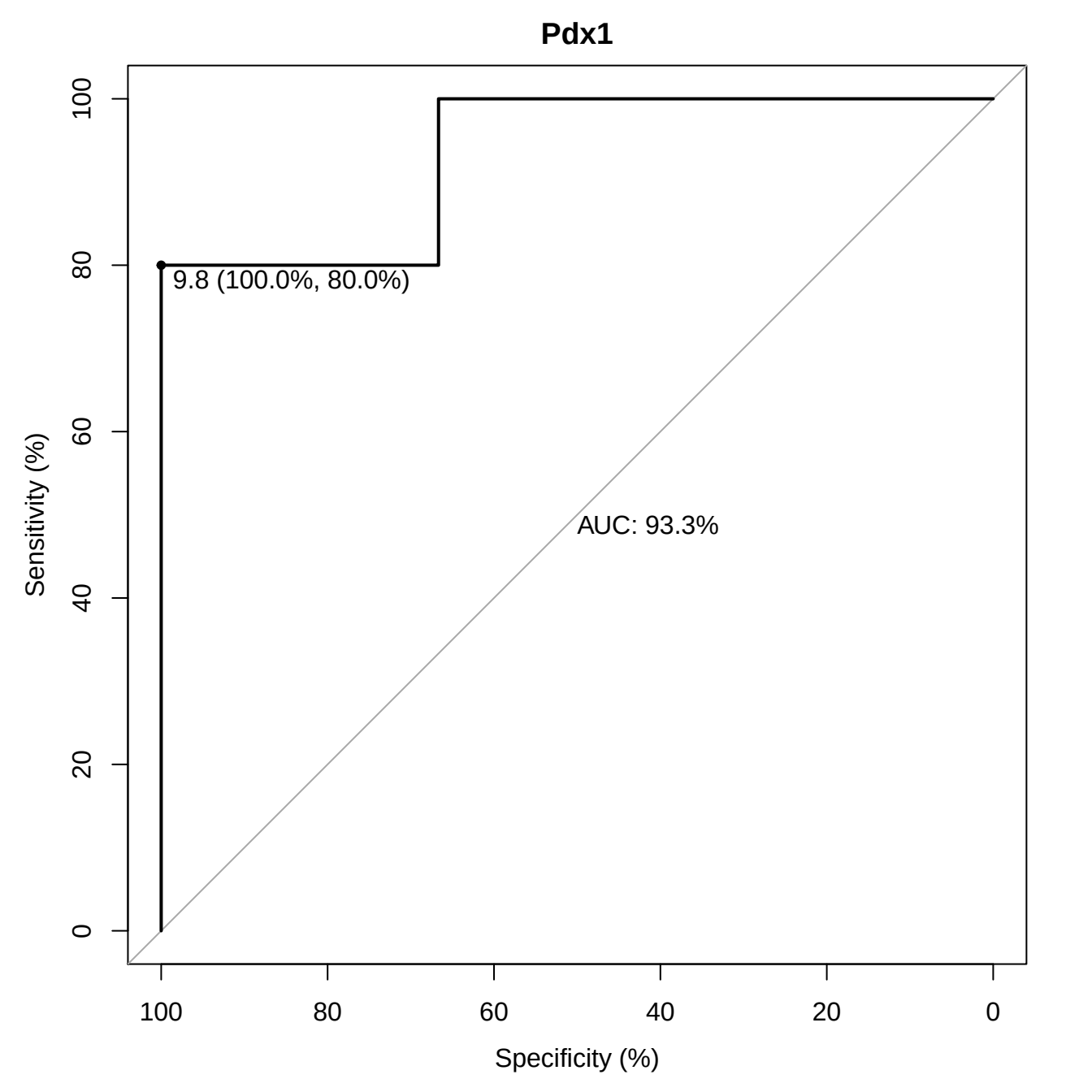

Cdkn2c p−value= 0.0357142857142857
11
10
9
8
Cdkn2c
Normal
Tumor
Stage

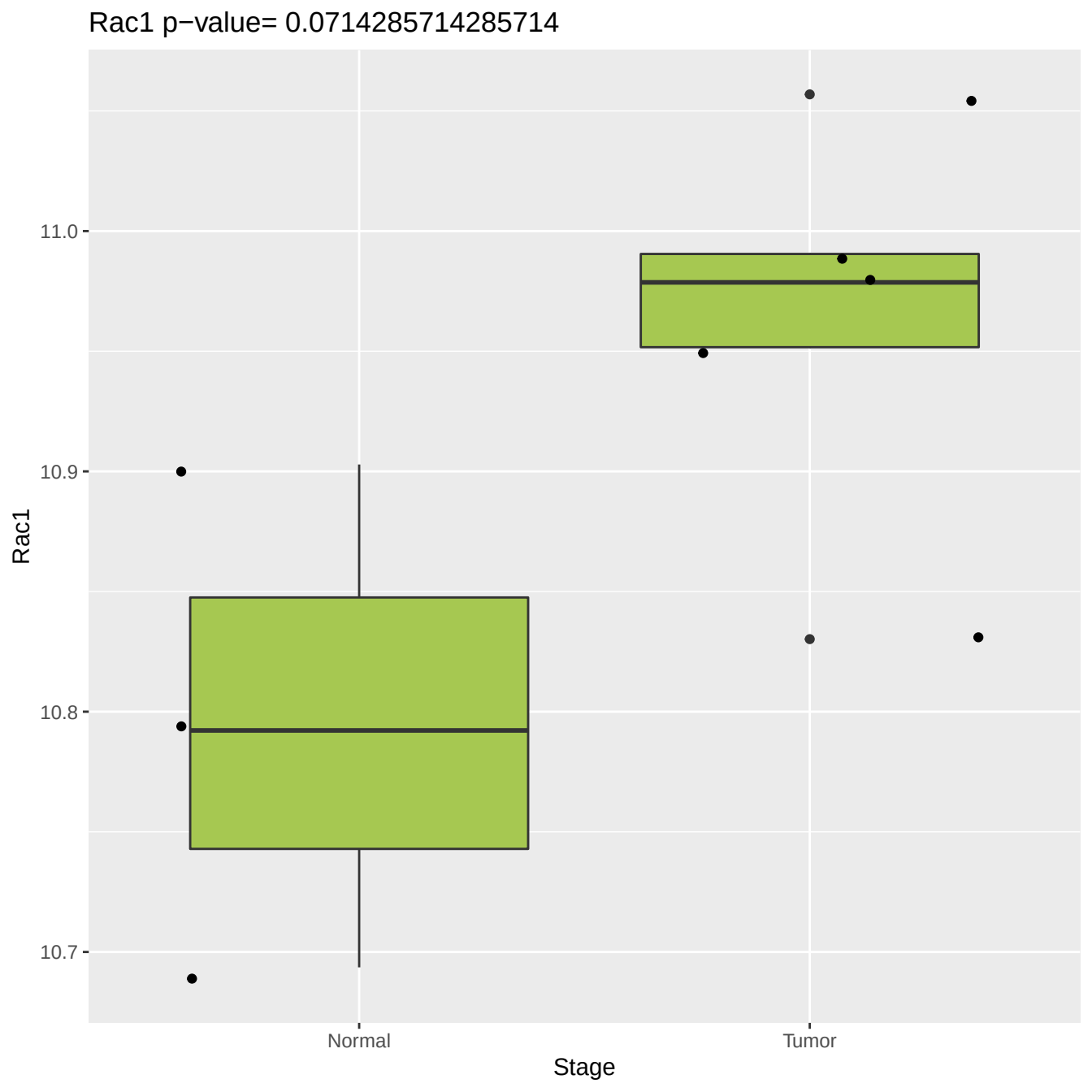

Cdkn2c
10.1 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

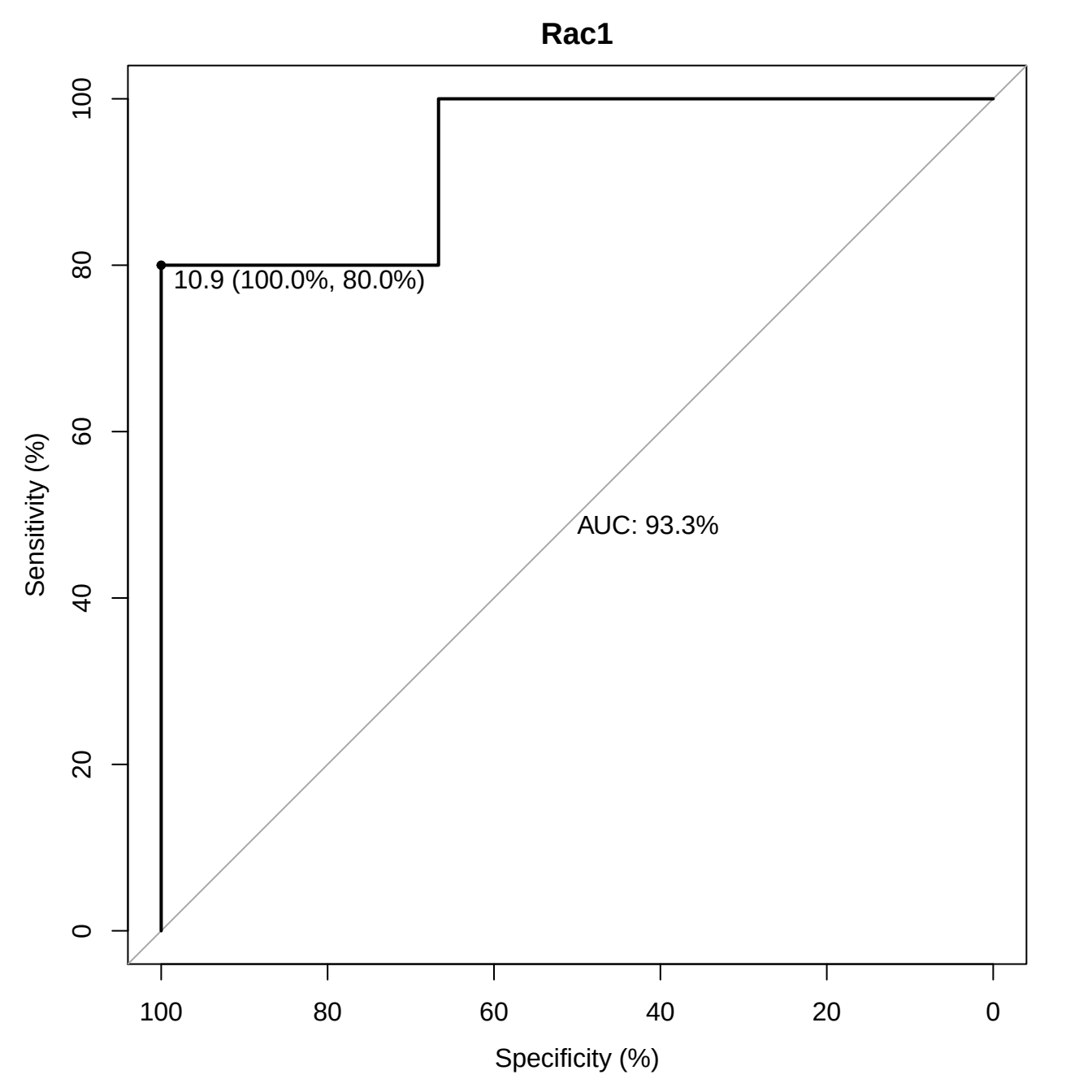

Rps6ka1 p−value= 0.0357142857142857
8.2
8.0
7.8
7.6
Rps6ka1
Normal
Tumor
Stage

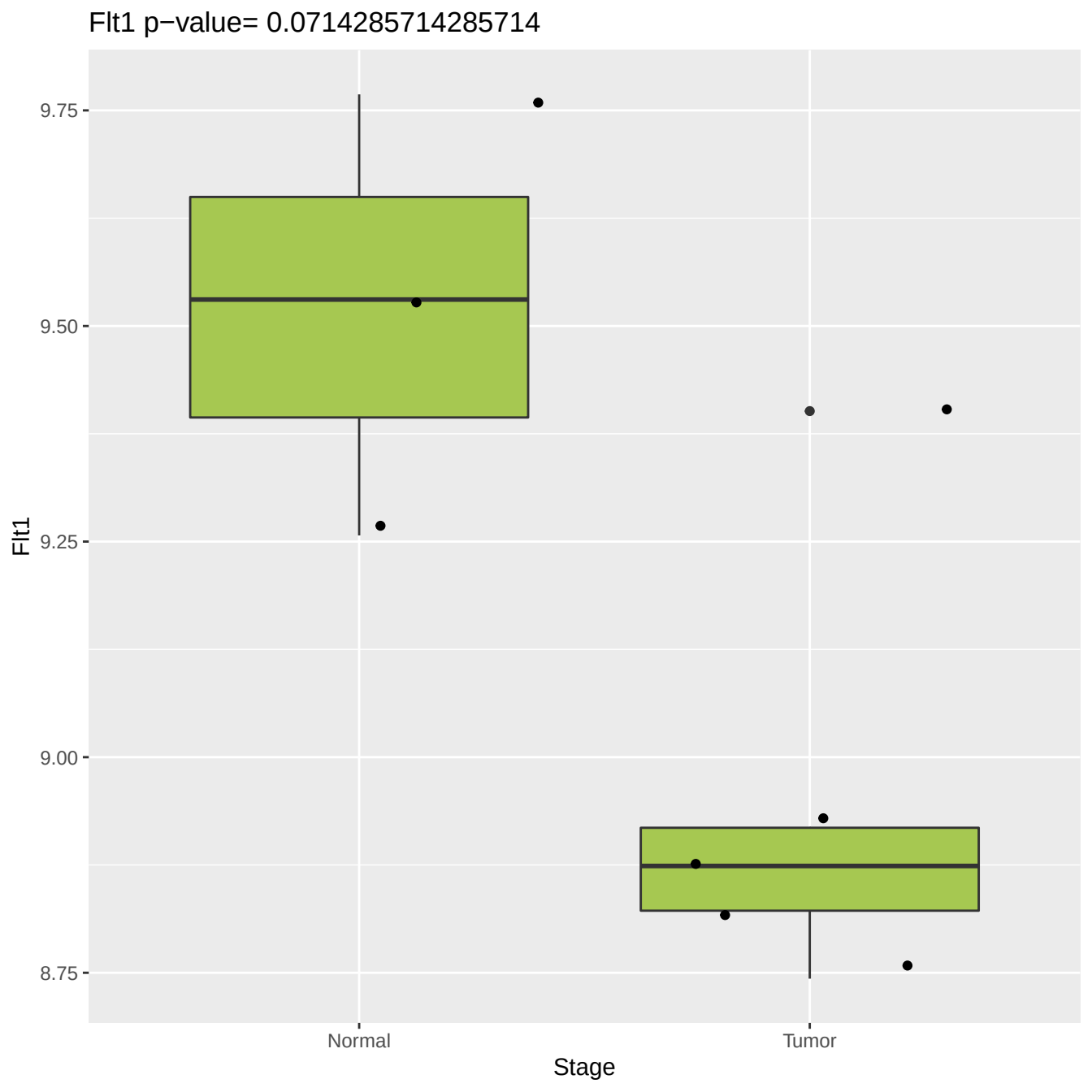

Rps6ka1
8.0 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

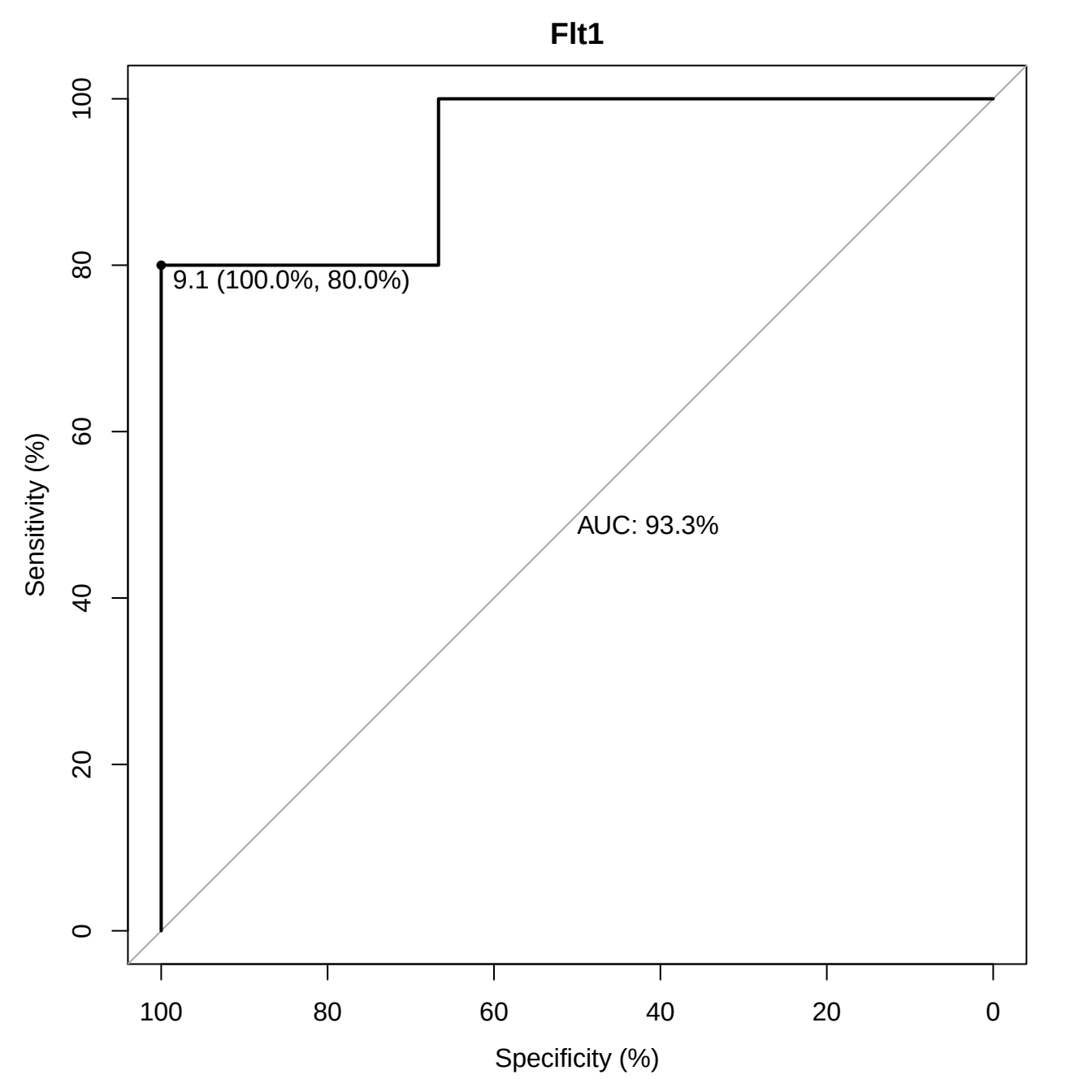

Pdx1 p−value= 0.0714285714285714
10.0
9.8
9.6
9.4
Pdx1
Normal
Tumor
Stage

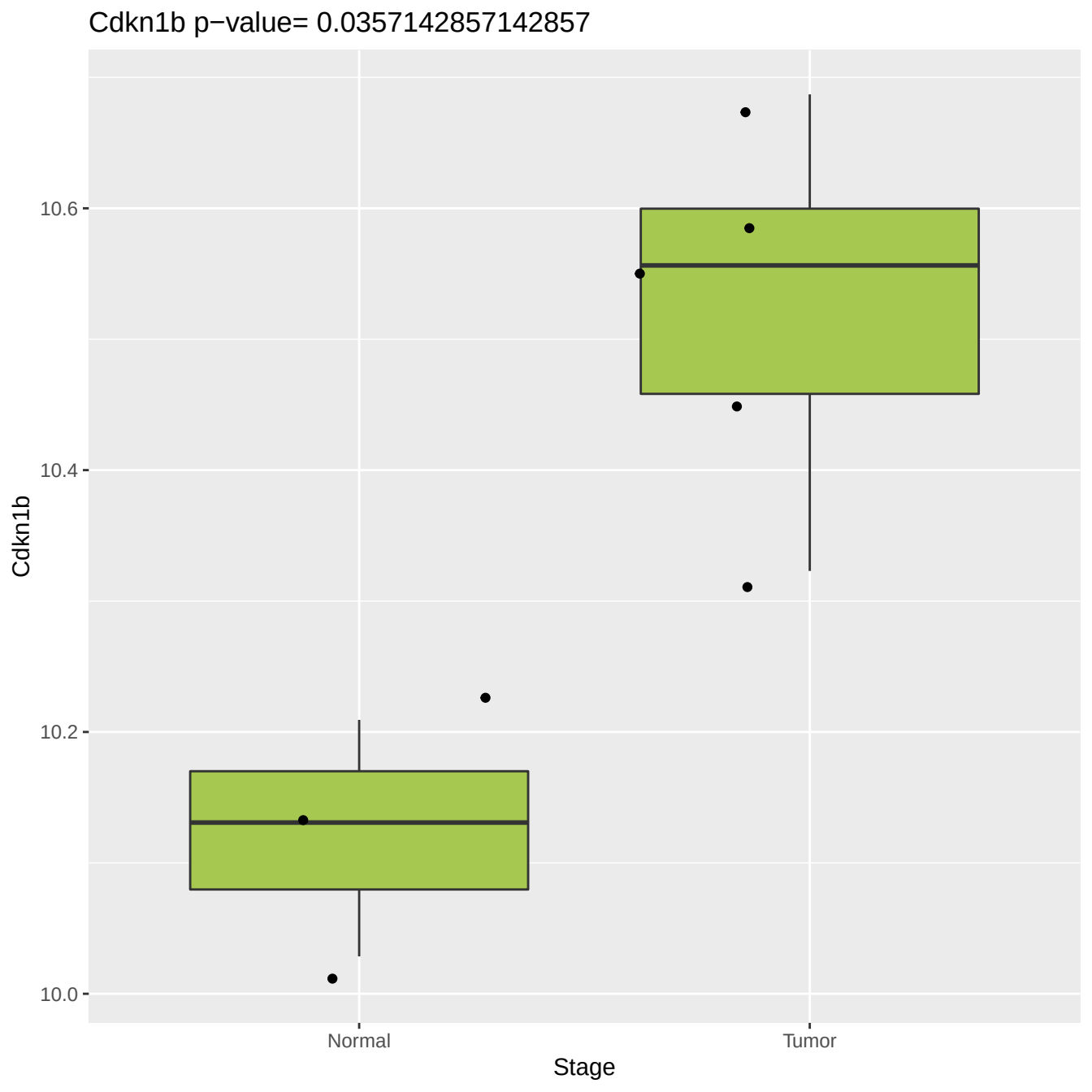

Pdx1
Sensitivity (%)
100
80
60
40
20
0
9.8 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

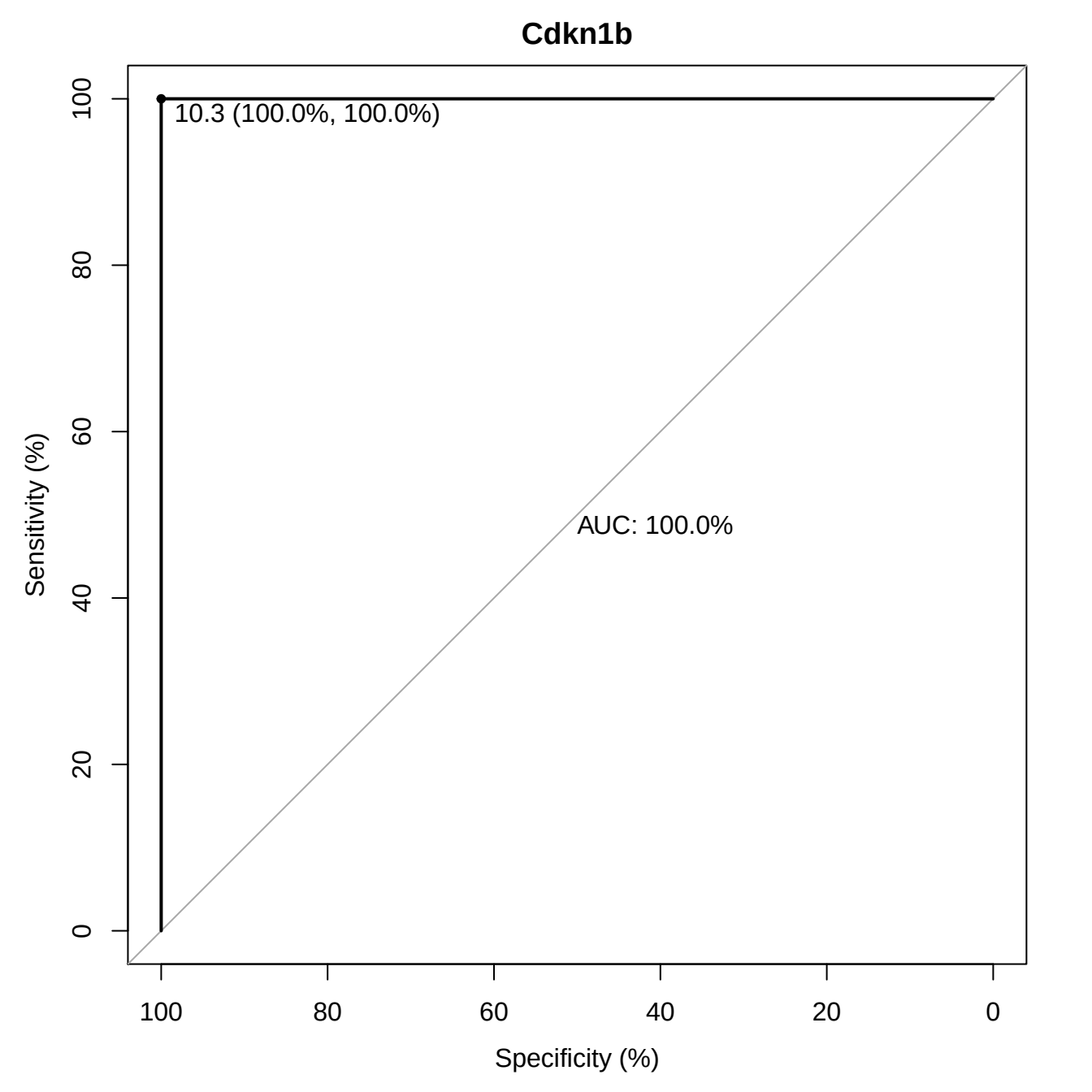

Rac1 p−value= 0.0714285714285714
11.0
10.9
10.8
10.7
Rac1
Normal
Tumor
Stage

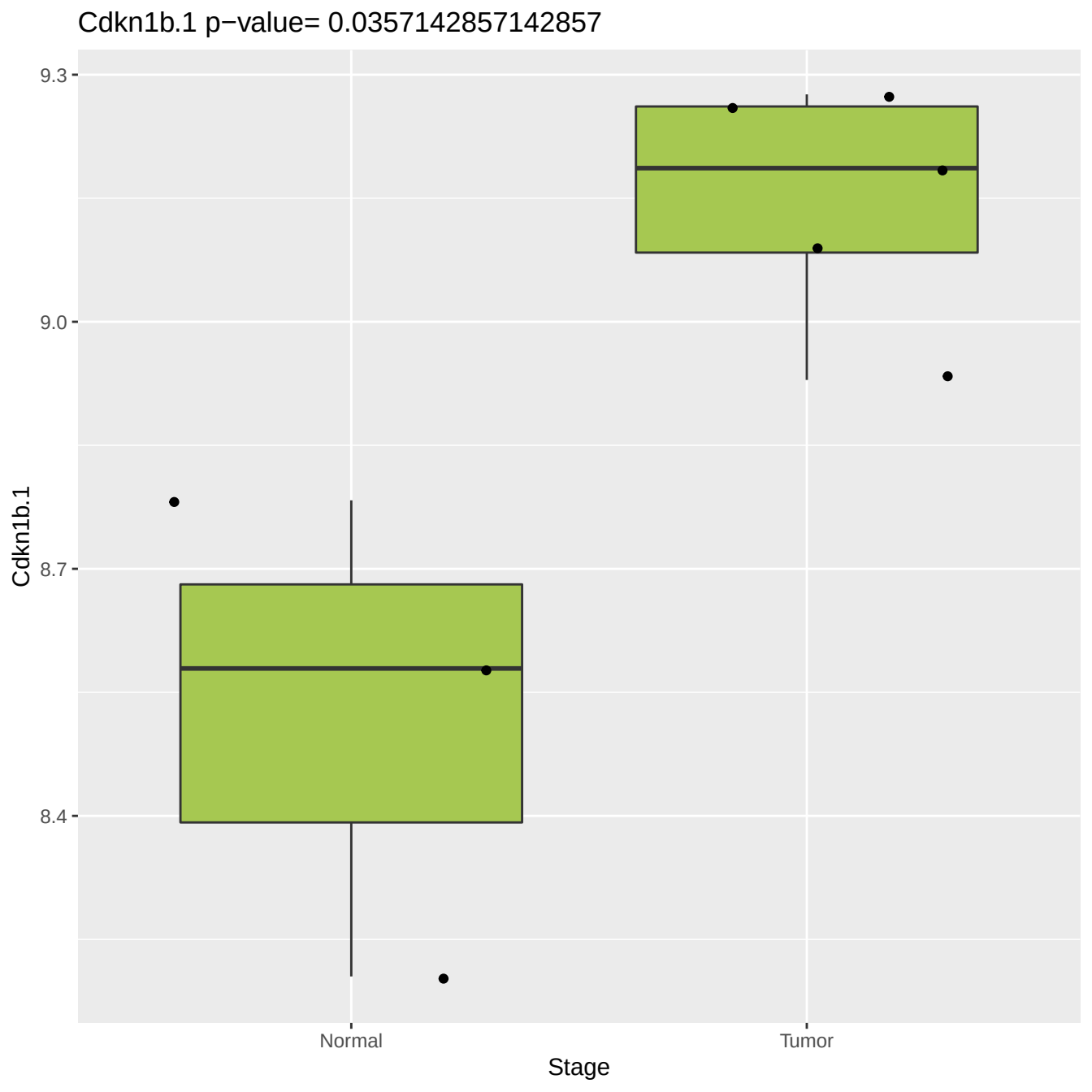

Rac1
Sensitivity (%)
100
80
60
40
20
0
10.9 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

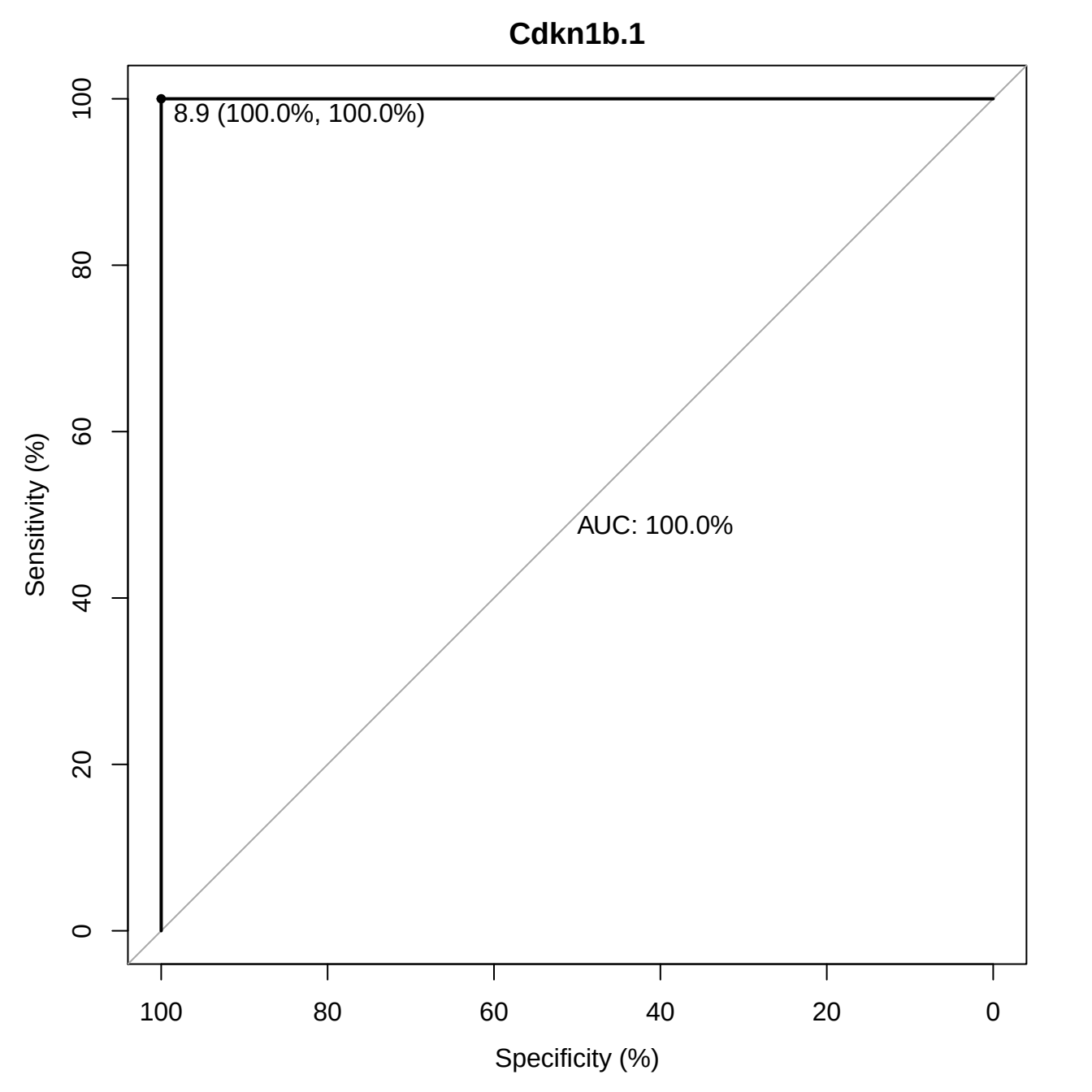

Flt1 p−value= 0.0714285714285714
9.75
9.50
9.25
9.00
8.75
Flt1
Normal
Tumor
Stage

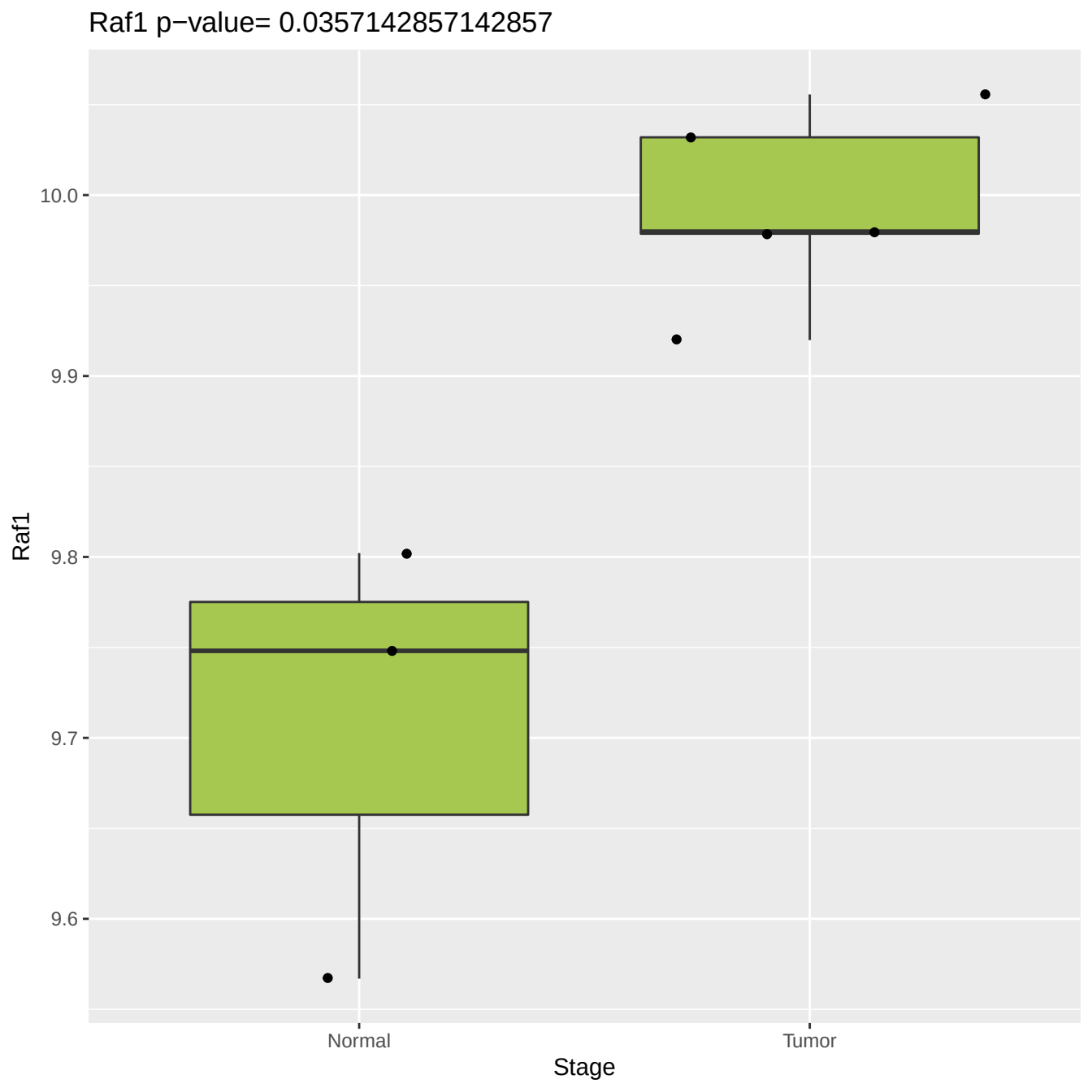

Flt1
Sensitivity (%)
100
80
60
40
20
0
9.1 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

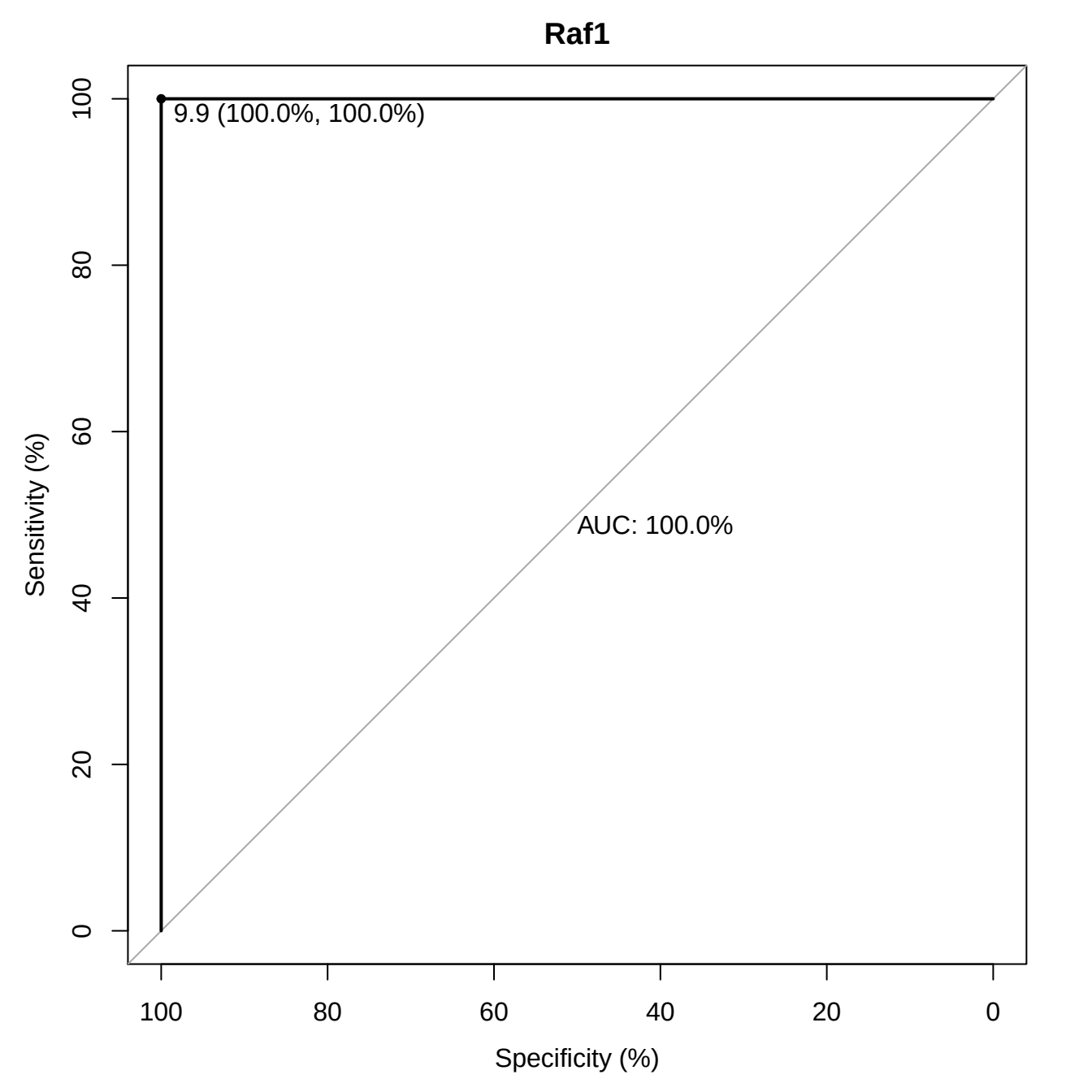

Cdkn1b p−value= 0.0357142857142857
10.6
10.4
10.2
10.0
Cdkn1b
Normal
Tumor
Stage

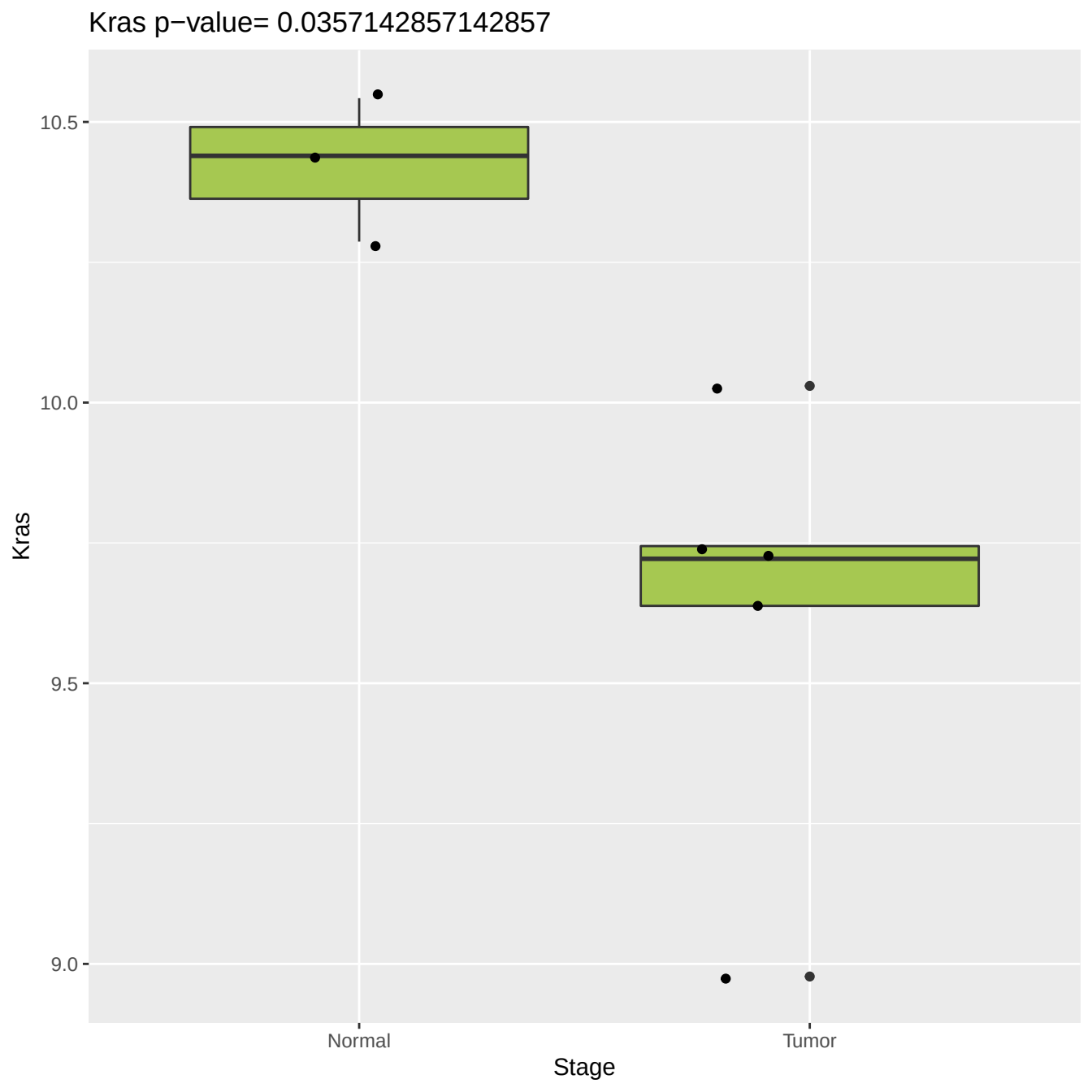

Cdkn1b
10.3 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

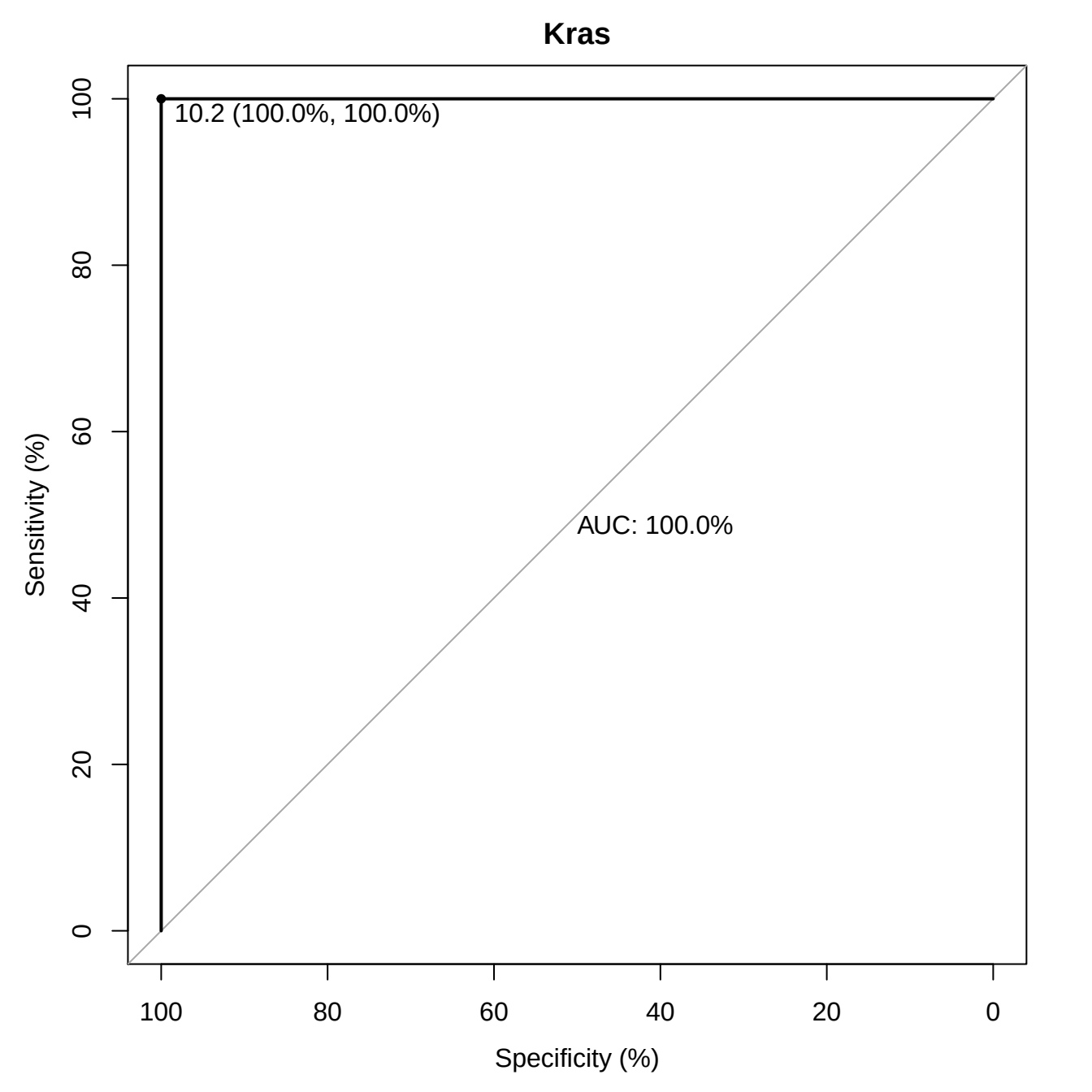

Cdkn1b.1 p−value= 0.0357142857142857
9.3
9.0
8.7
8.4
Cdkn1b.1
Normal
Tumor
Stage

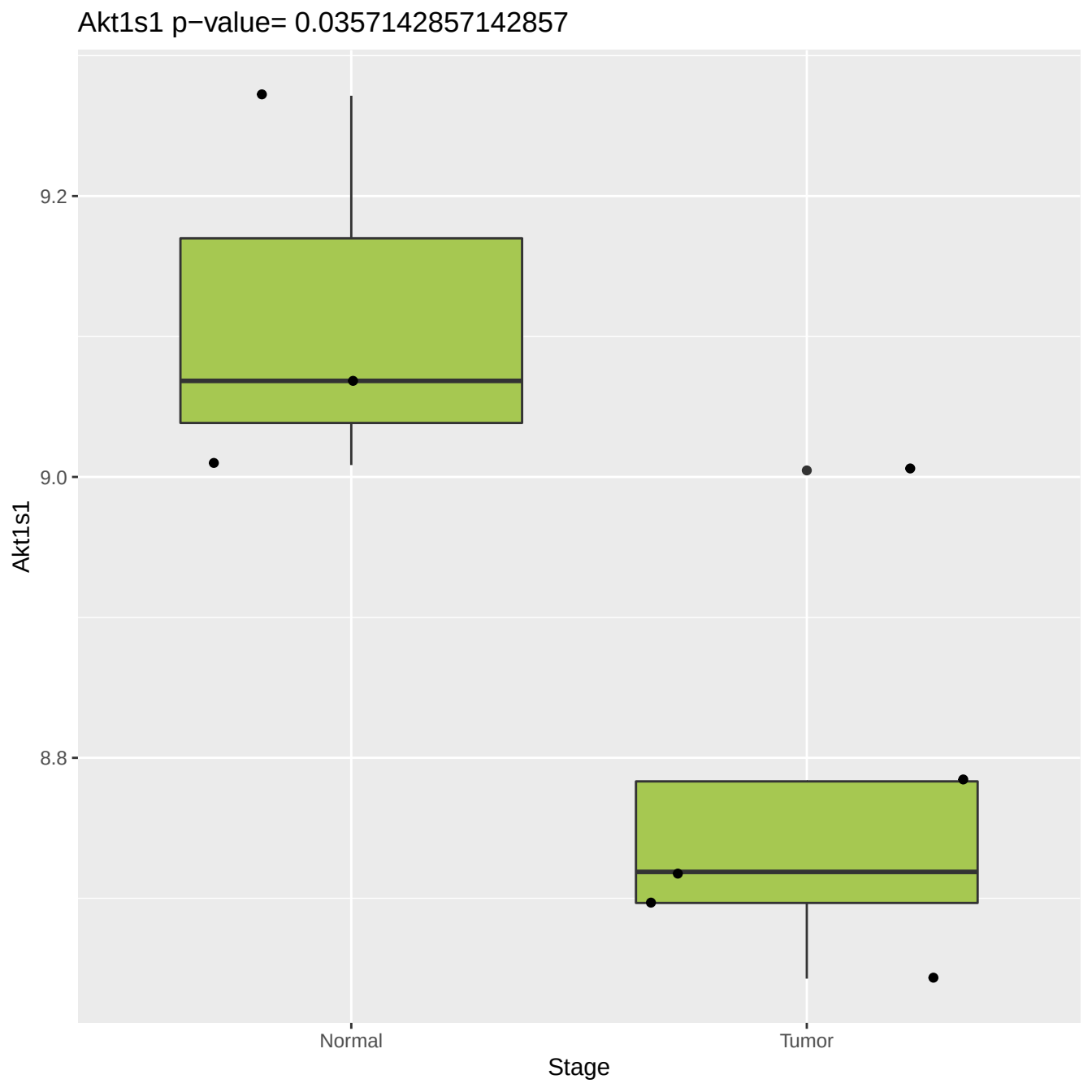

Cdkn1b.1
8.9 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

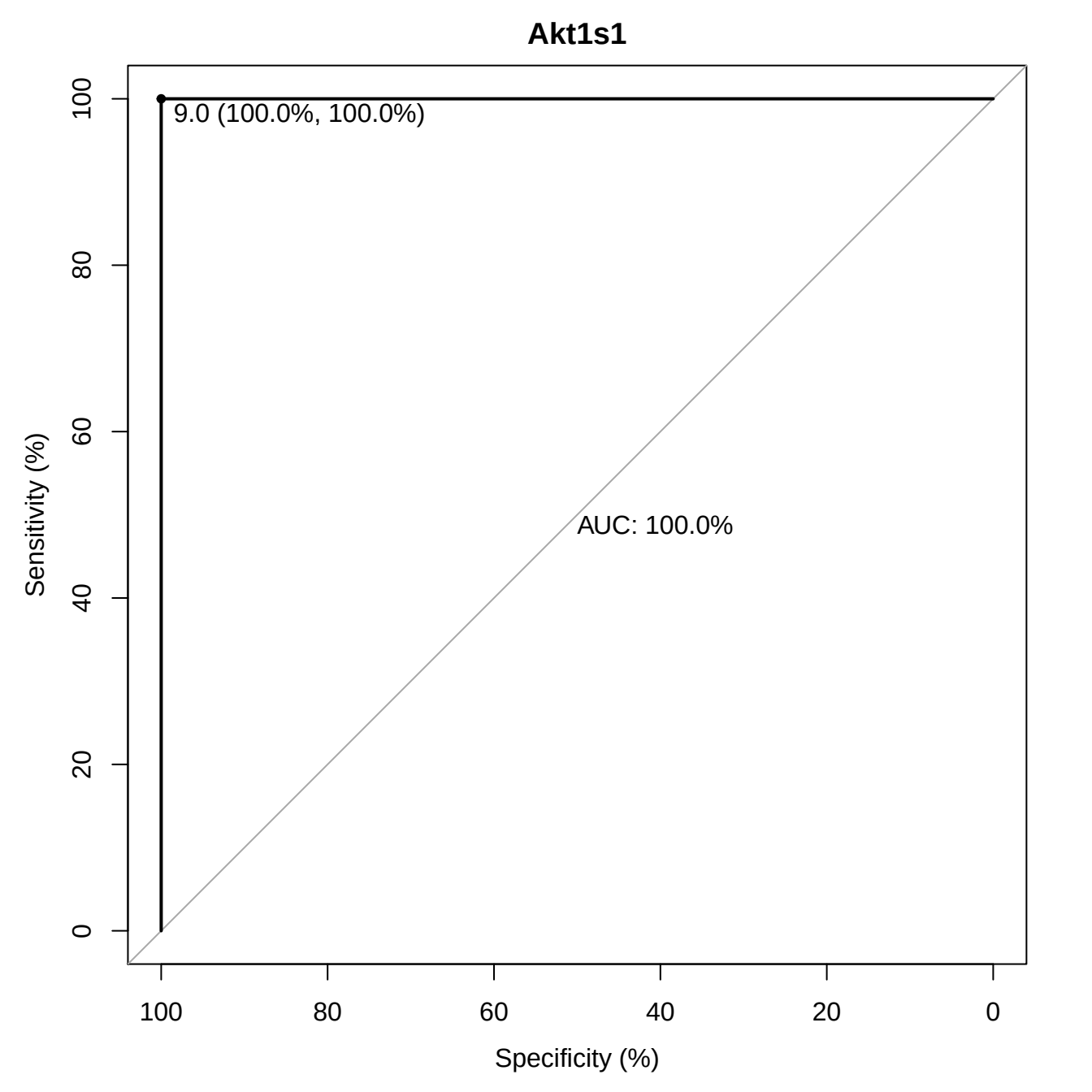

Raf1 p−value= 0.0357142857142857
10.0
9.9
9.8
9.7
9.6
Raf1
Normal
Tumor
Stage

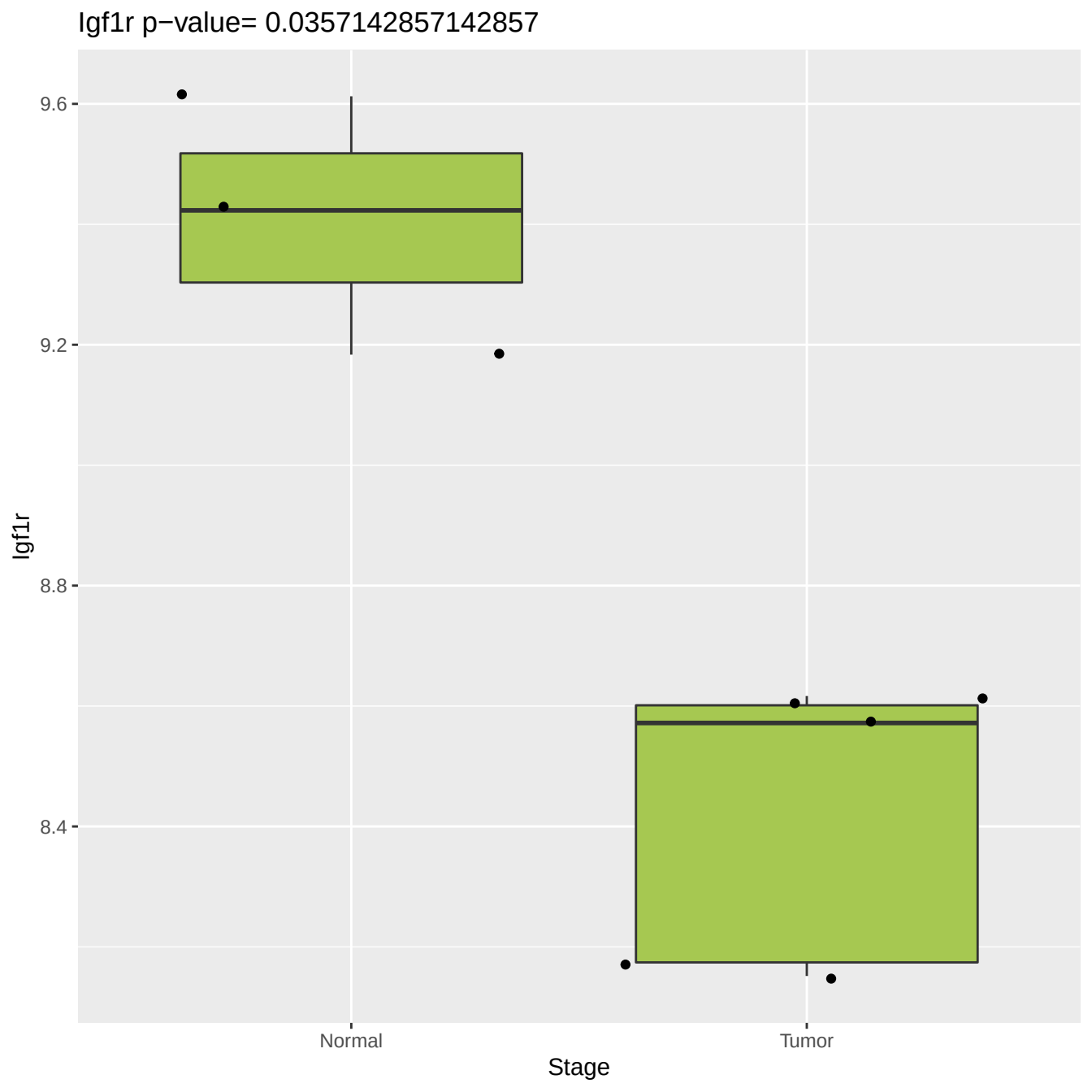

Raf1
9.9 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

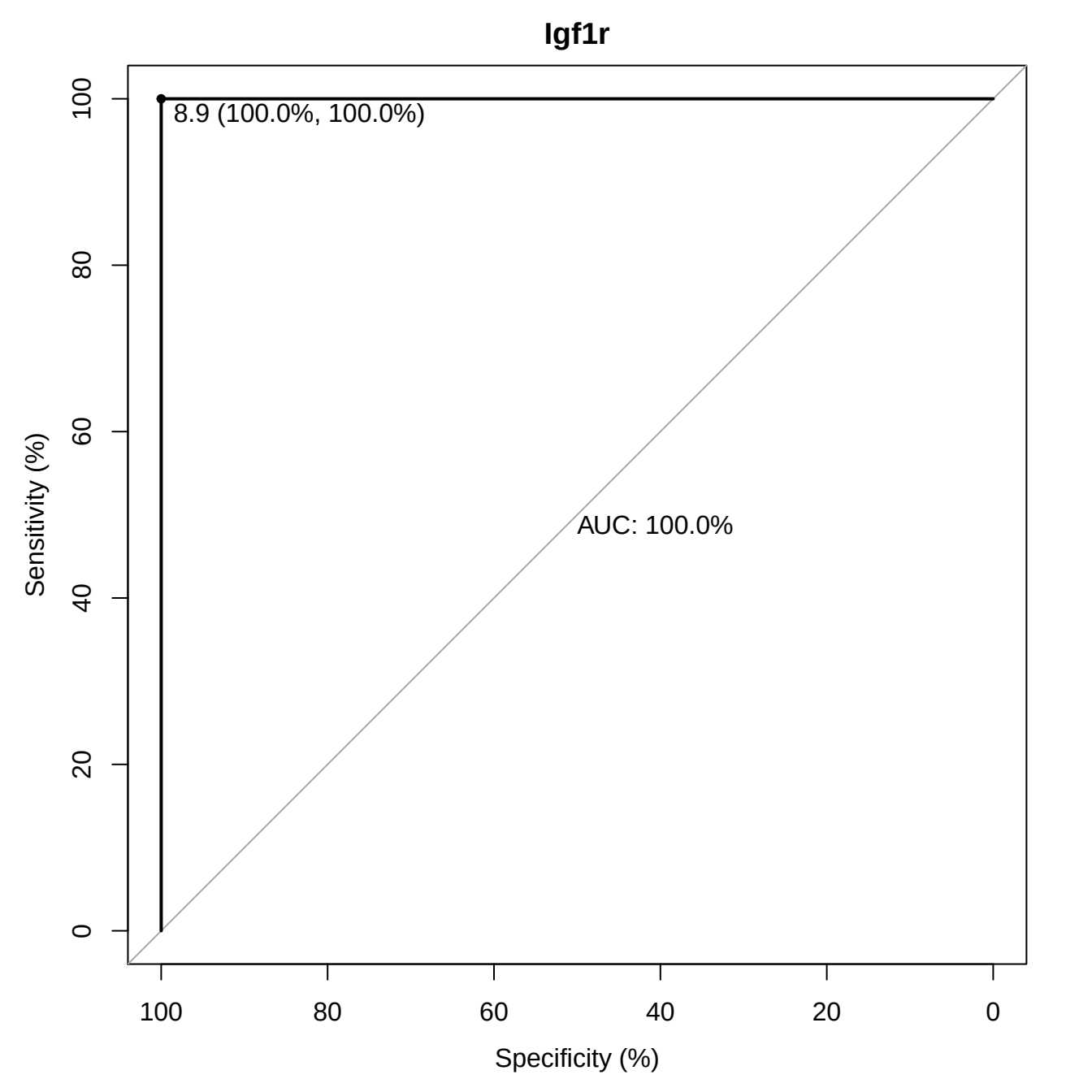

Kras p−value= 0.0357142857142857
10.5
10.0
9.5
9.0
Kras
Normal
Tumor
Stage

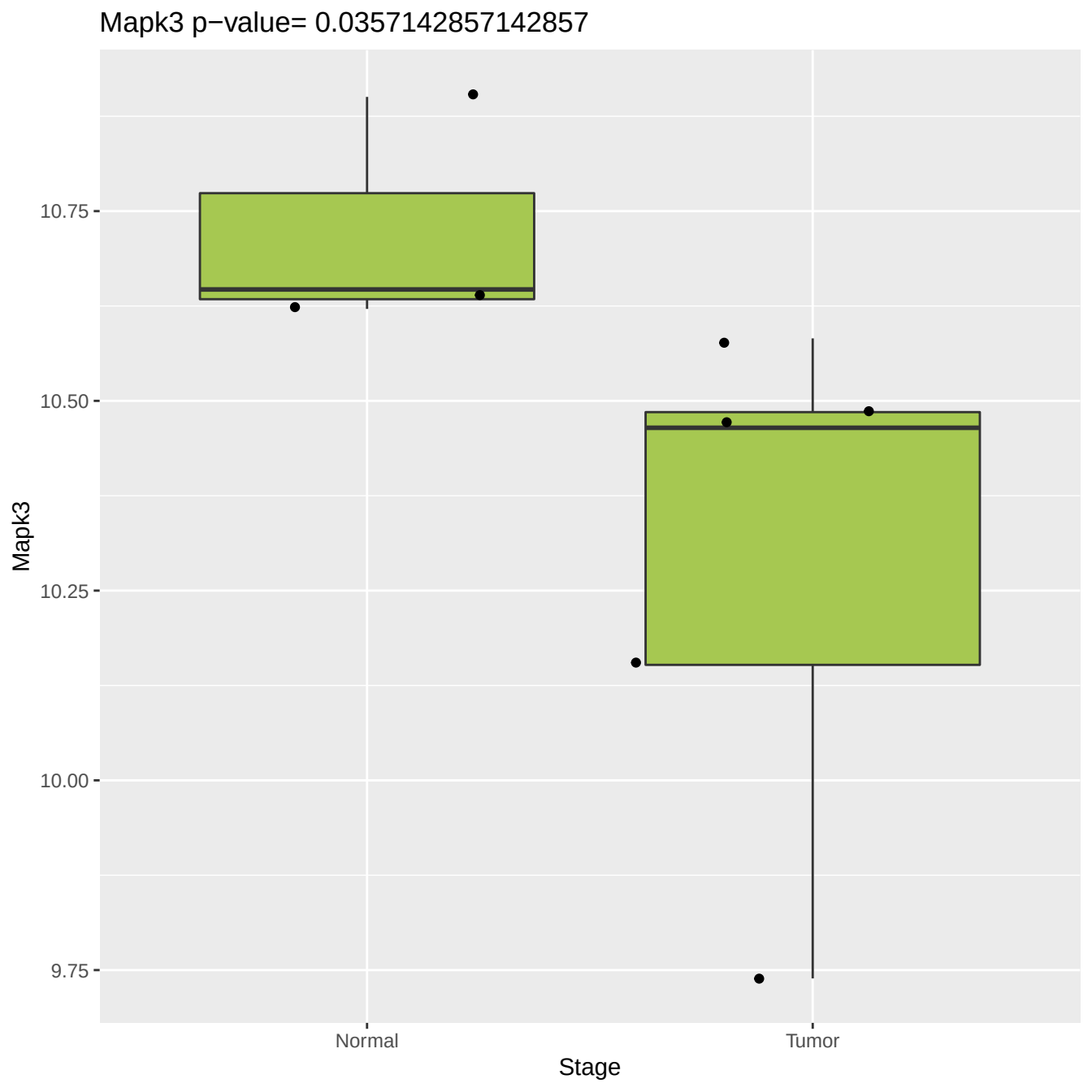

Kras
10.2 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

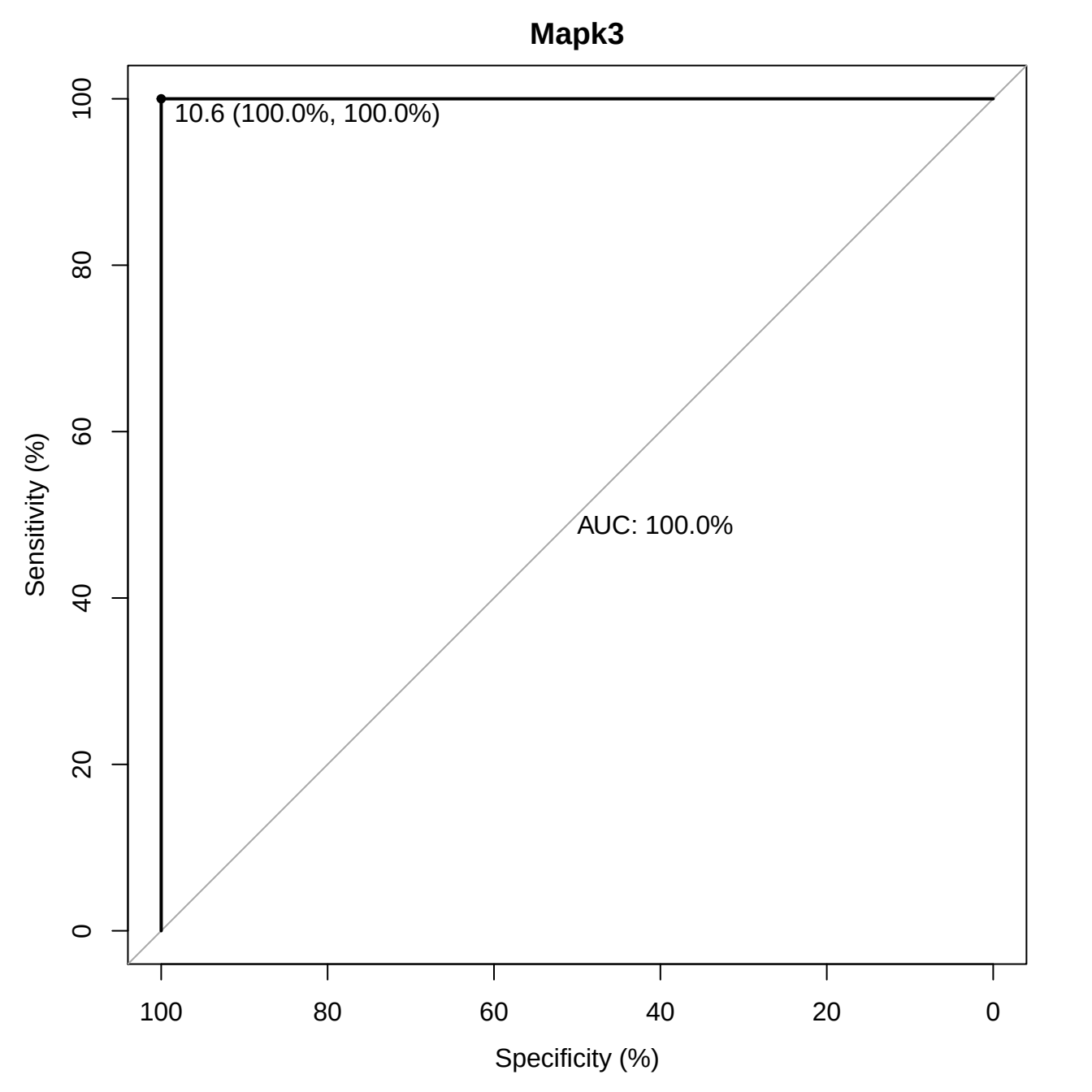

Akt1s1 p−value= 0.0357142857142857
9.2
9.0
8.8
Akt1s1
Normal
Tumor
Stage

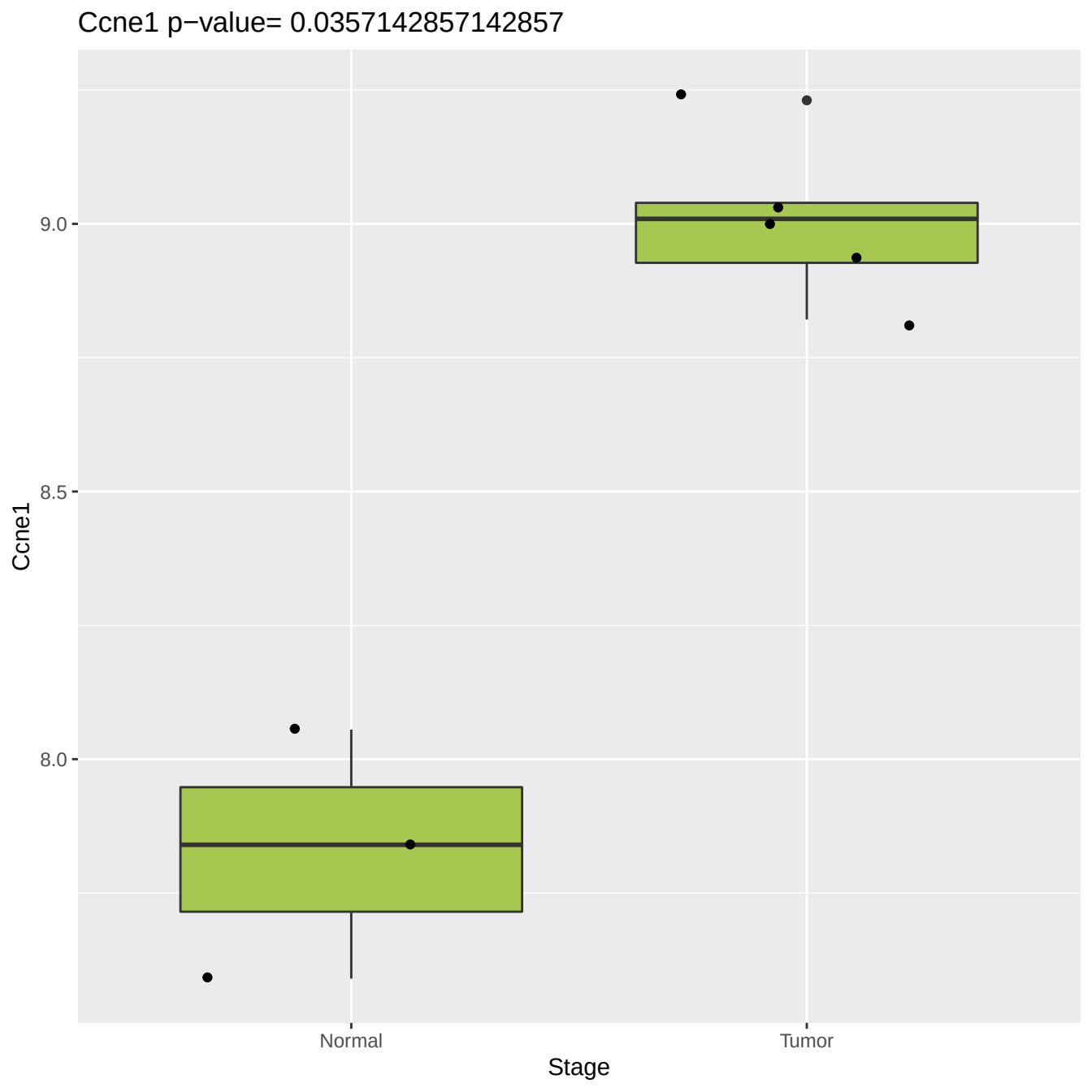

Akt1s1
9.0 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

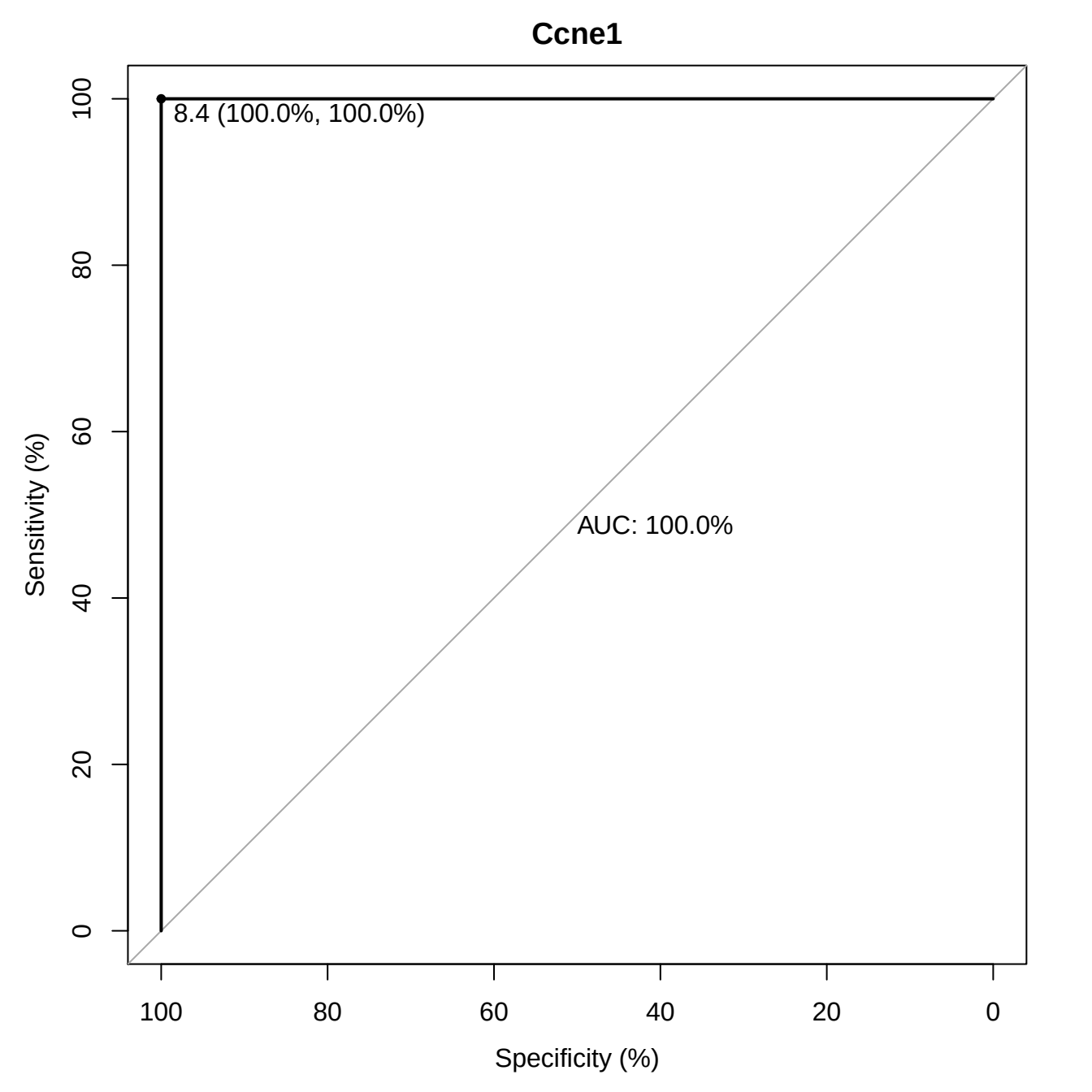

Igf1r p−value= 0.0357142857142857
9.6
9.2
8.8
8.4
Igf1r
Normal
Tumor
Stage

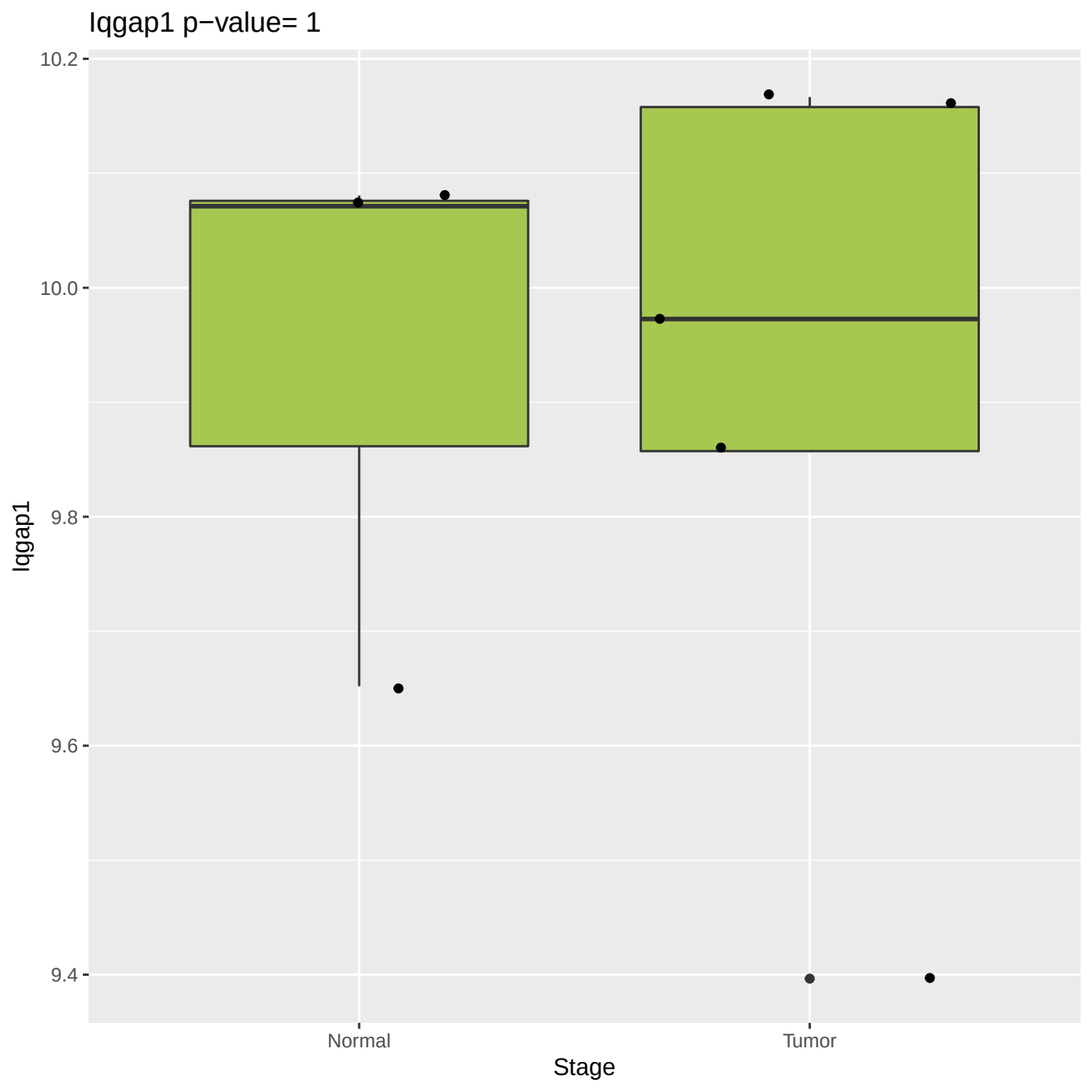

Igf1r
8.9 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

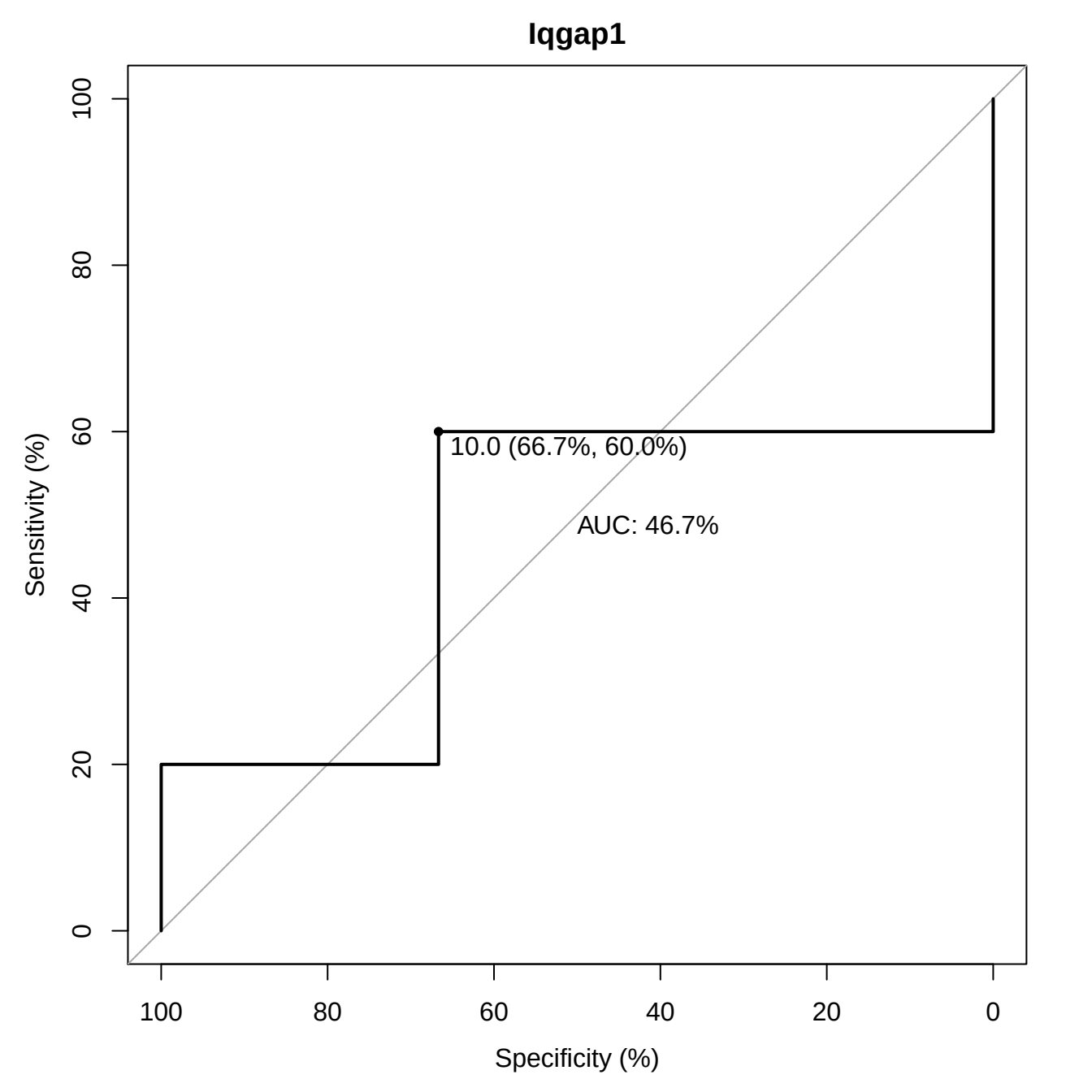

Mapk3 p−value= 0.0357142857142857
10.75
10.50
10.25
10.00
9.75
Mapk3
Normal
Tumor
Stage

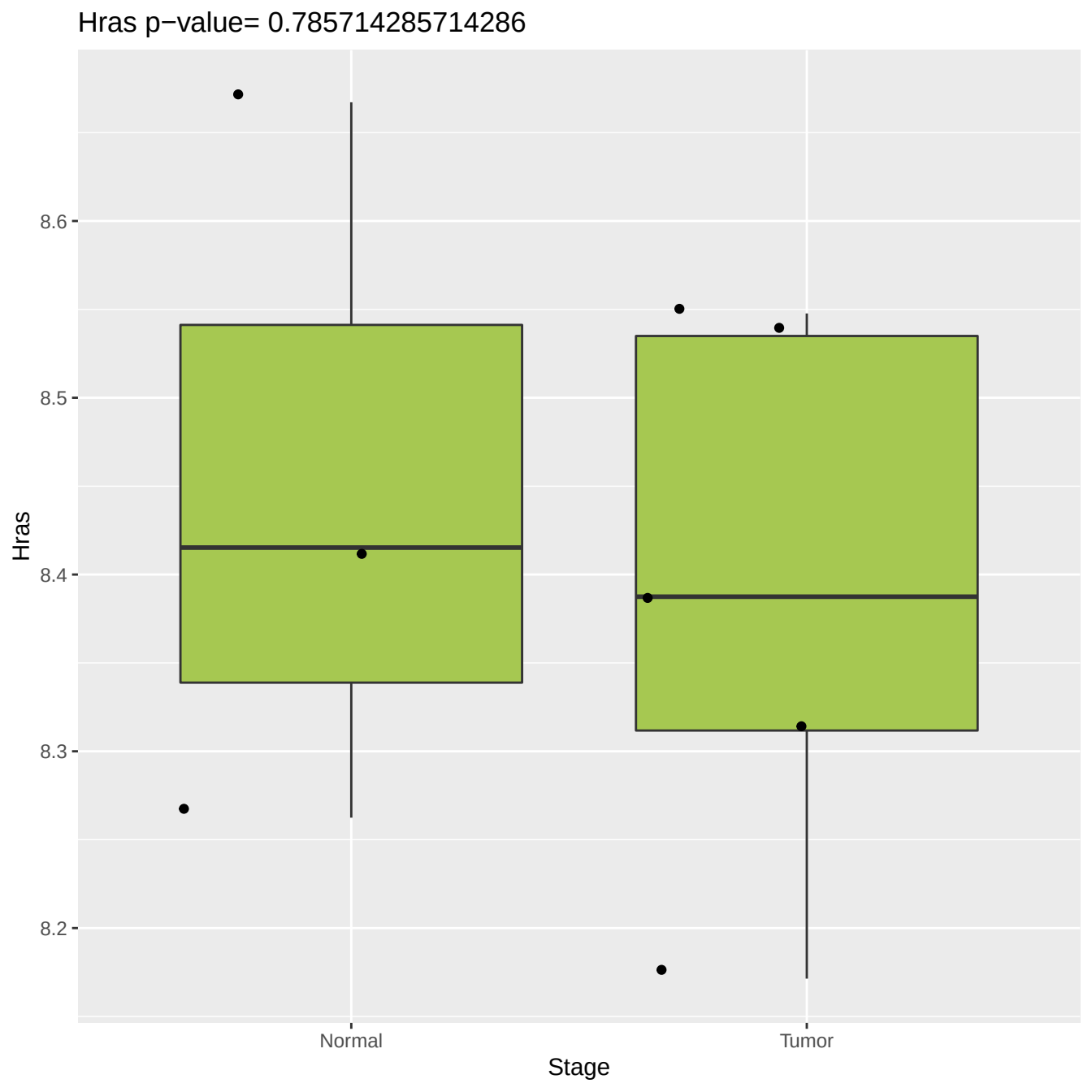

Mapk3
10.6 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

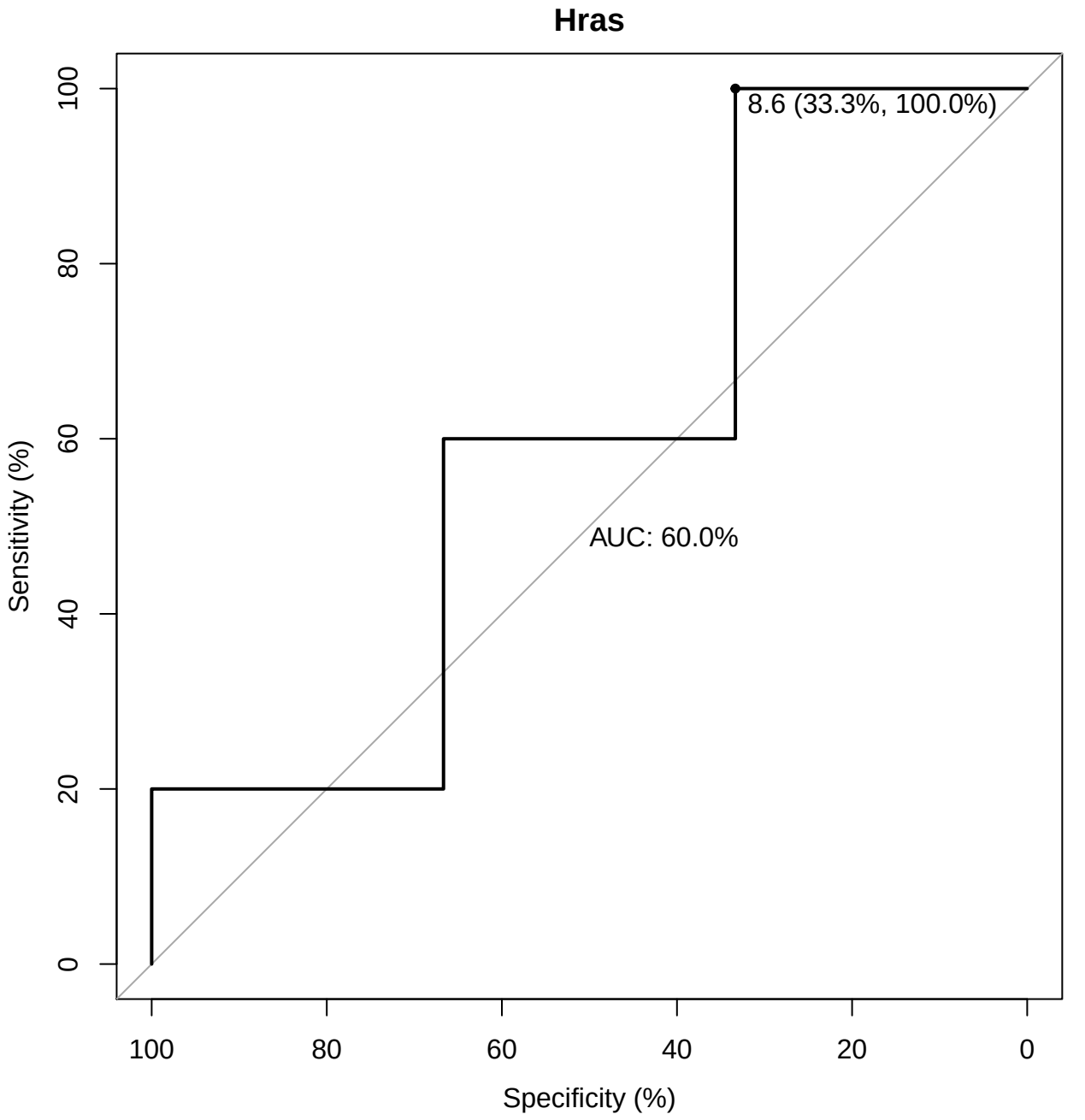

Ccne1 p−value= 0.0357142857142857
9.0
8.5
8.0
Ccne1
Normal
Tumor
Stage

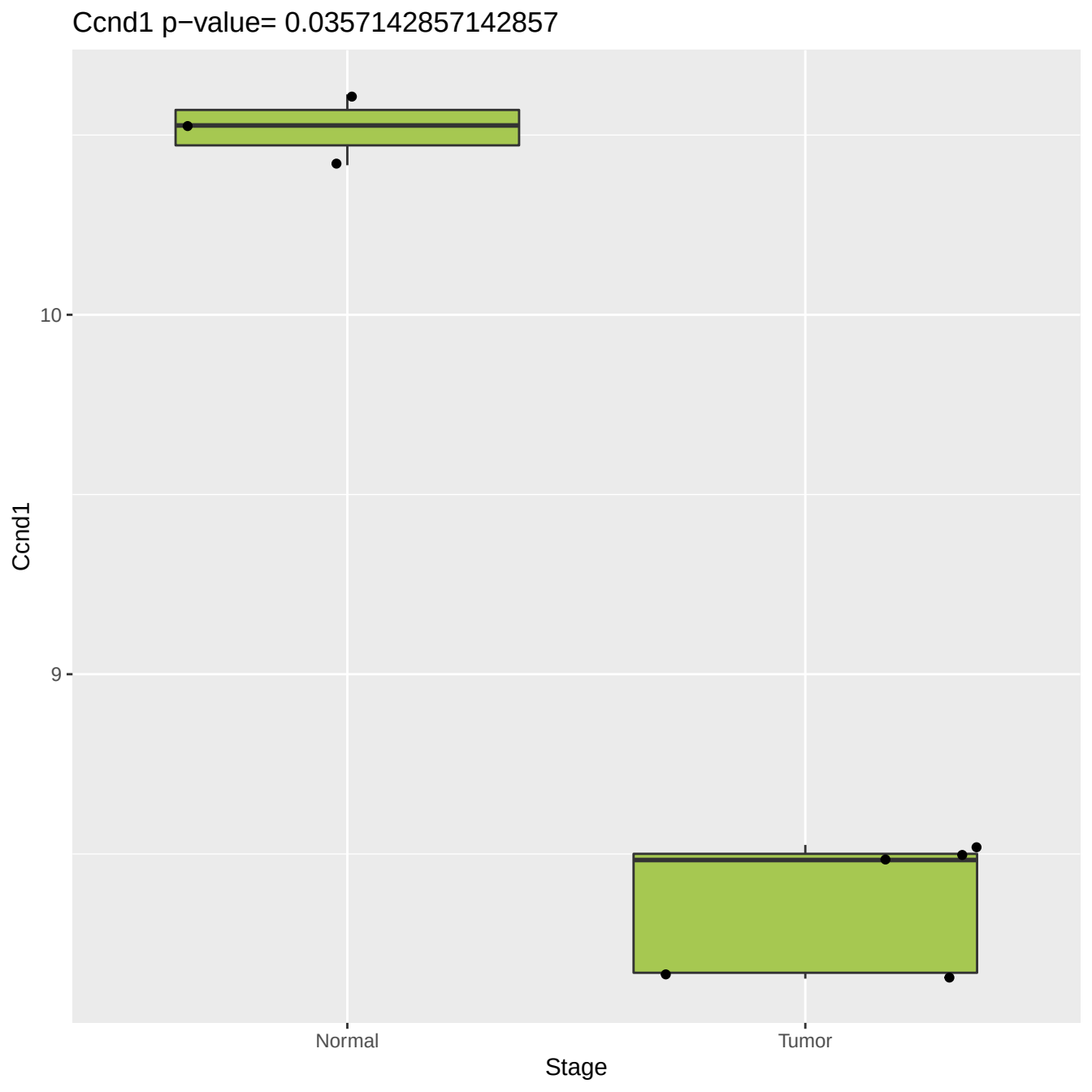

Ccne1
8.4 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

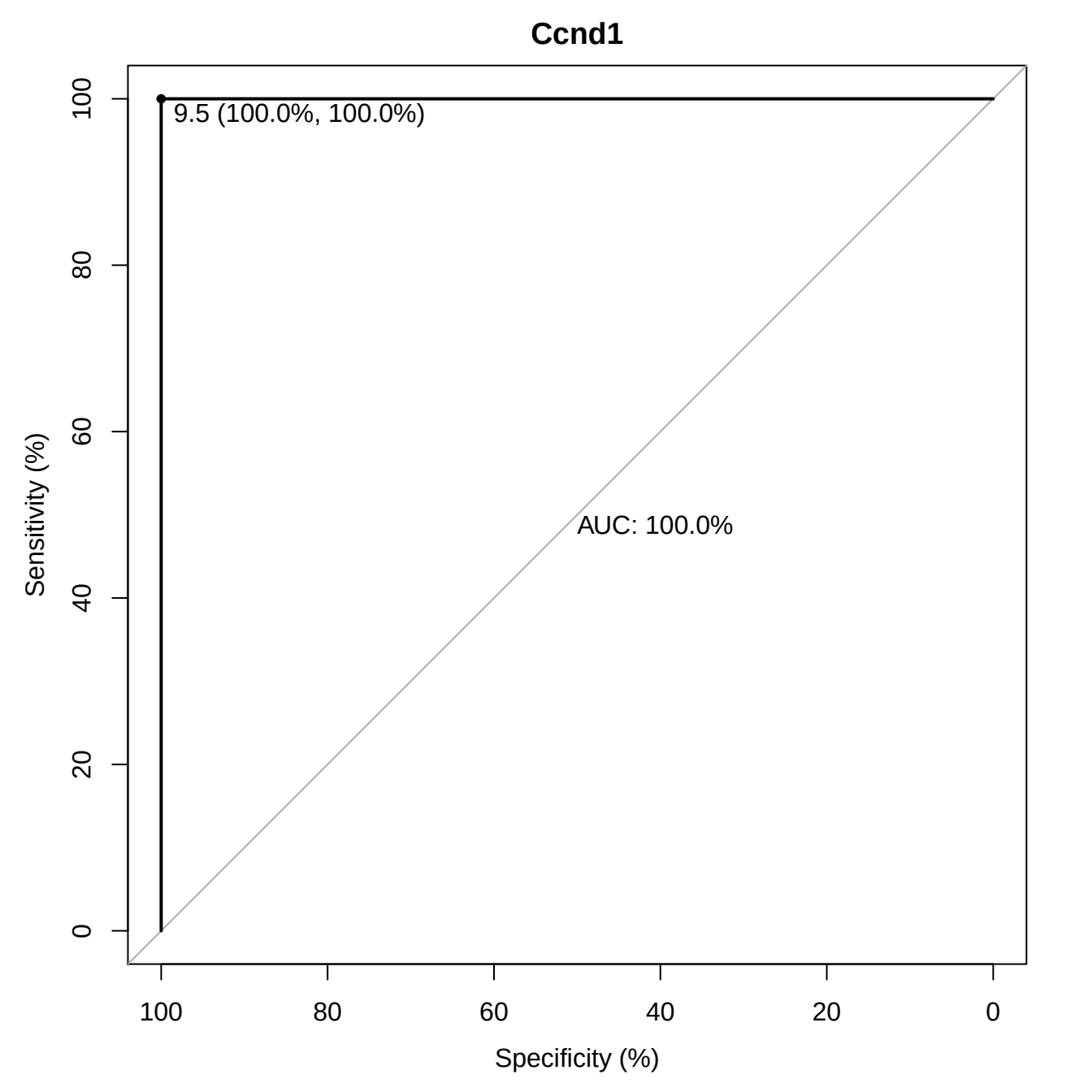

Iqgap1 p−value= 1
10.2
10.0
9.8
9.6
9.4
Iqgap1
Normal
Tumor
Stage

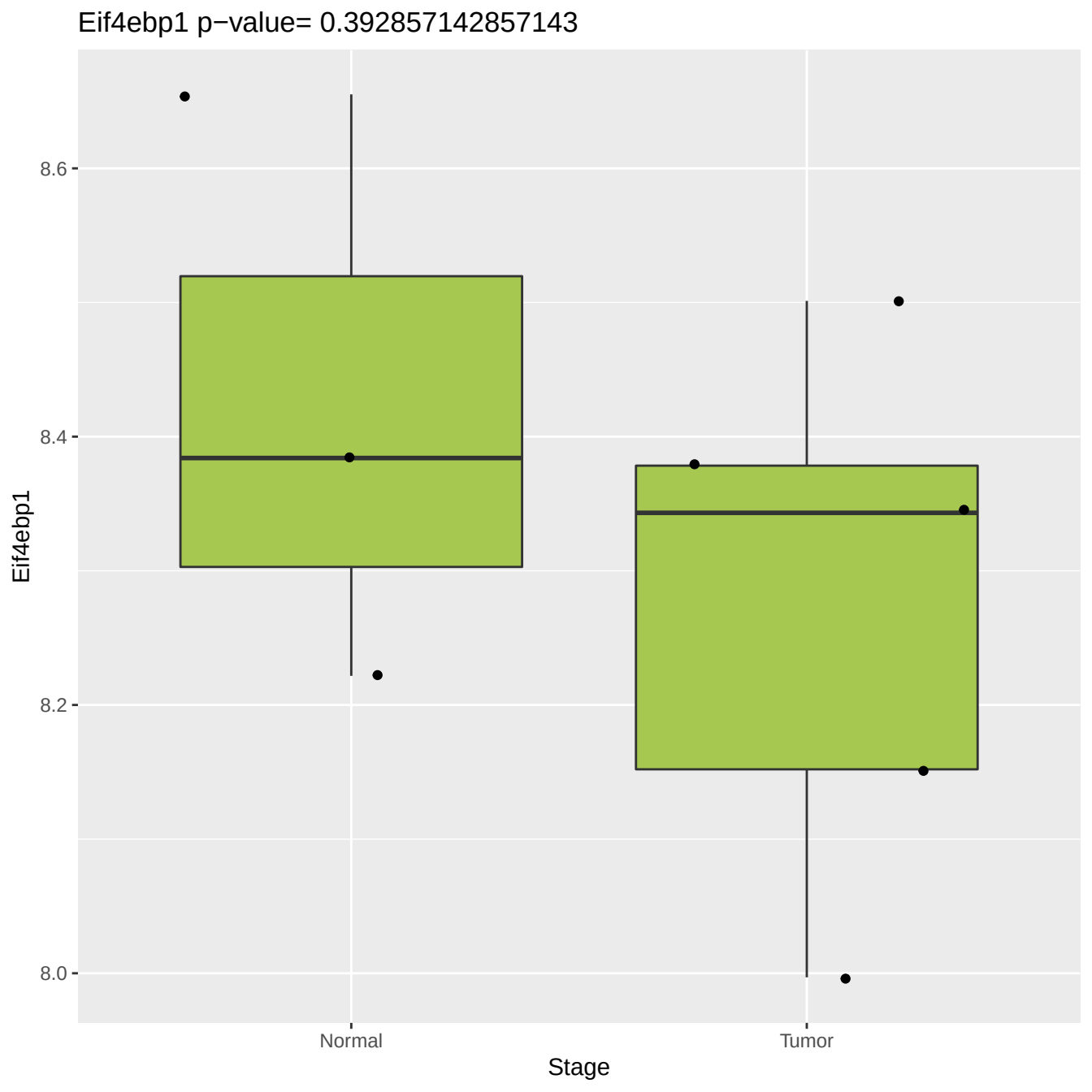

Iqgap1
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0
10.0 (66.7%, 60.0%)
AUC: 46.7%

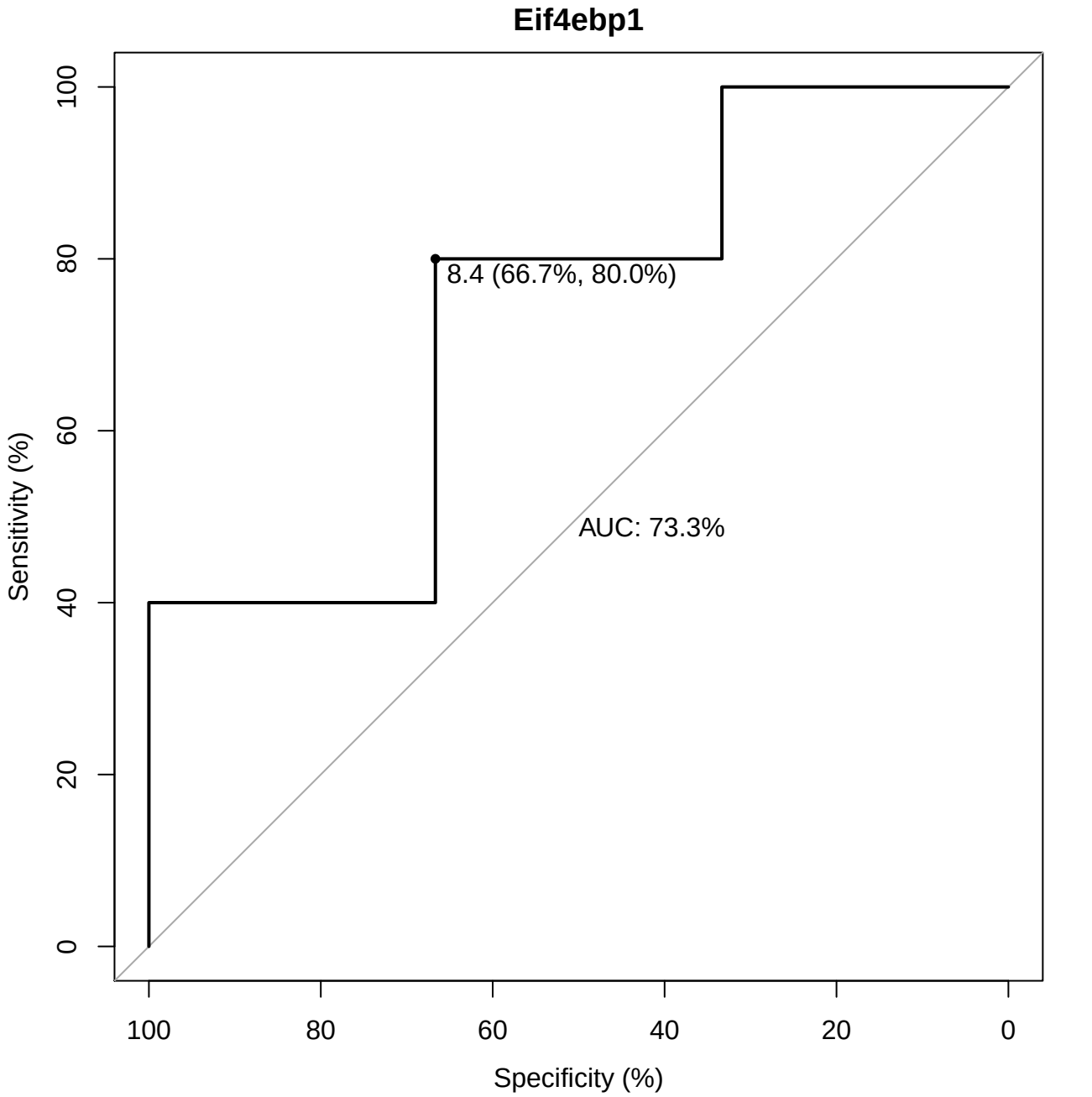

Hras p−value= 0.785714285714286
8.6
8.5
8.4
8.3
8.2
Hras
Normal
Tumor
Stage

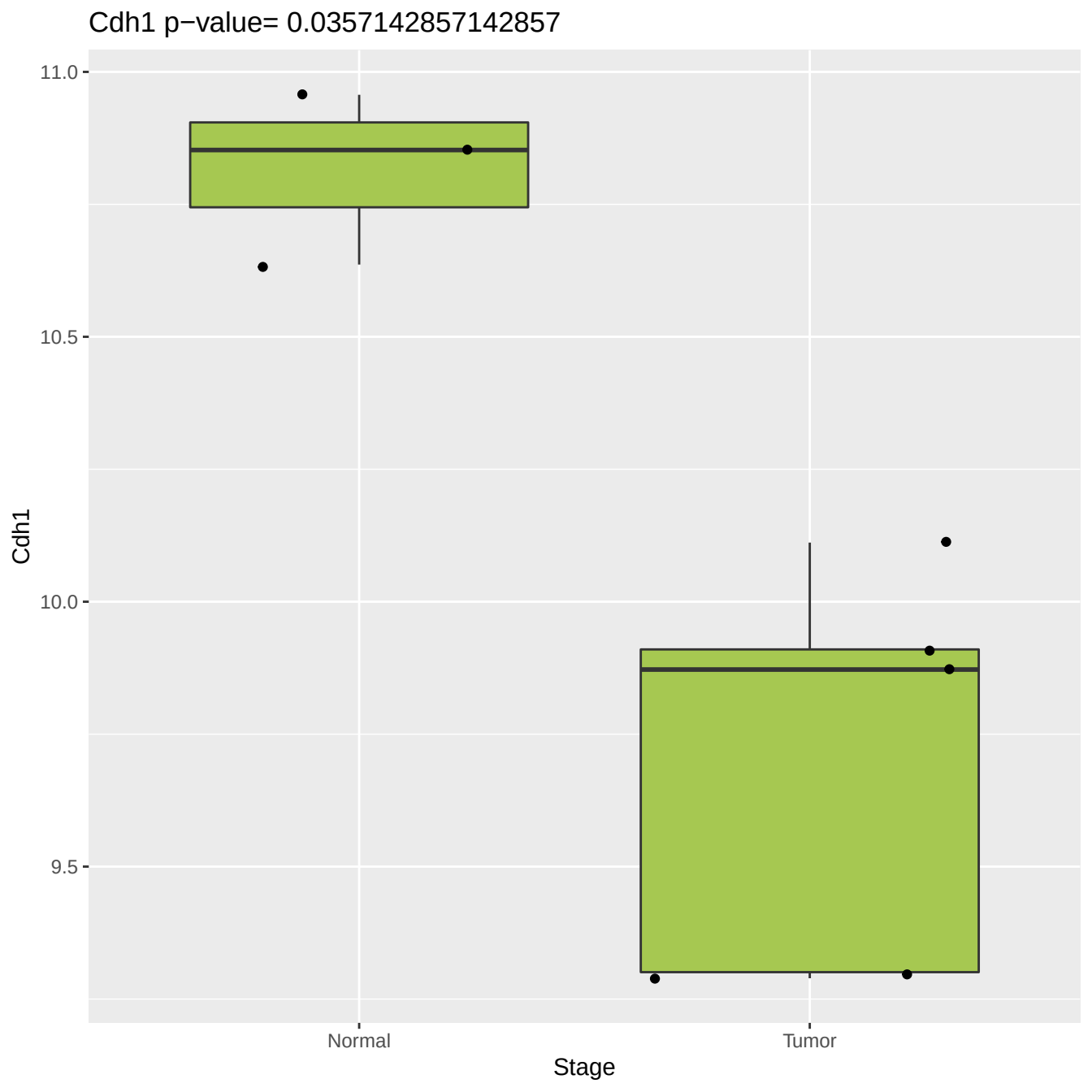

Hras
8.6 (33.3%, 100.0%)
AUC: 60.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

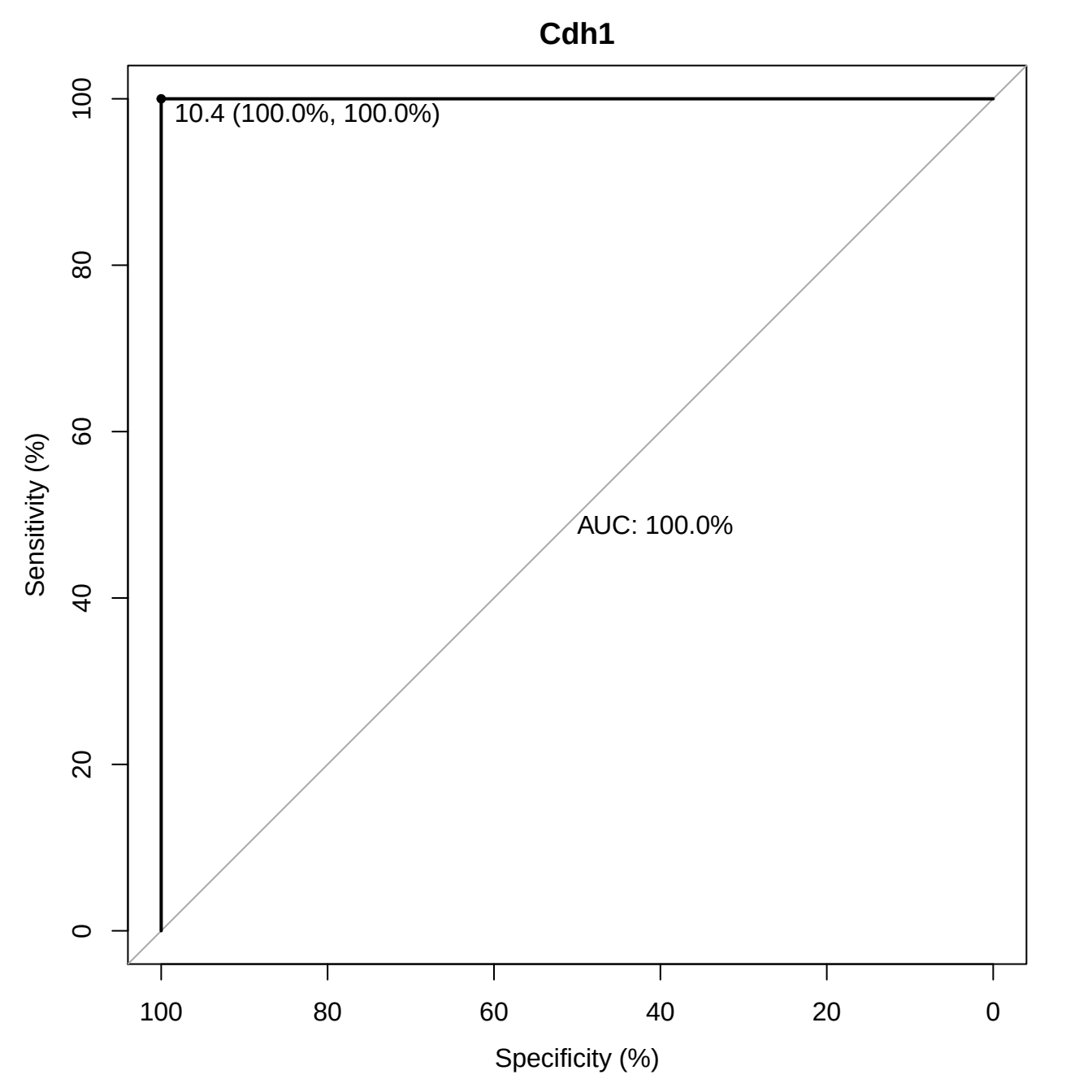

Ccnd1 p−value= 0.0357142857142857
10
9
Ccnd1
Normal
Tumor
Stage

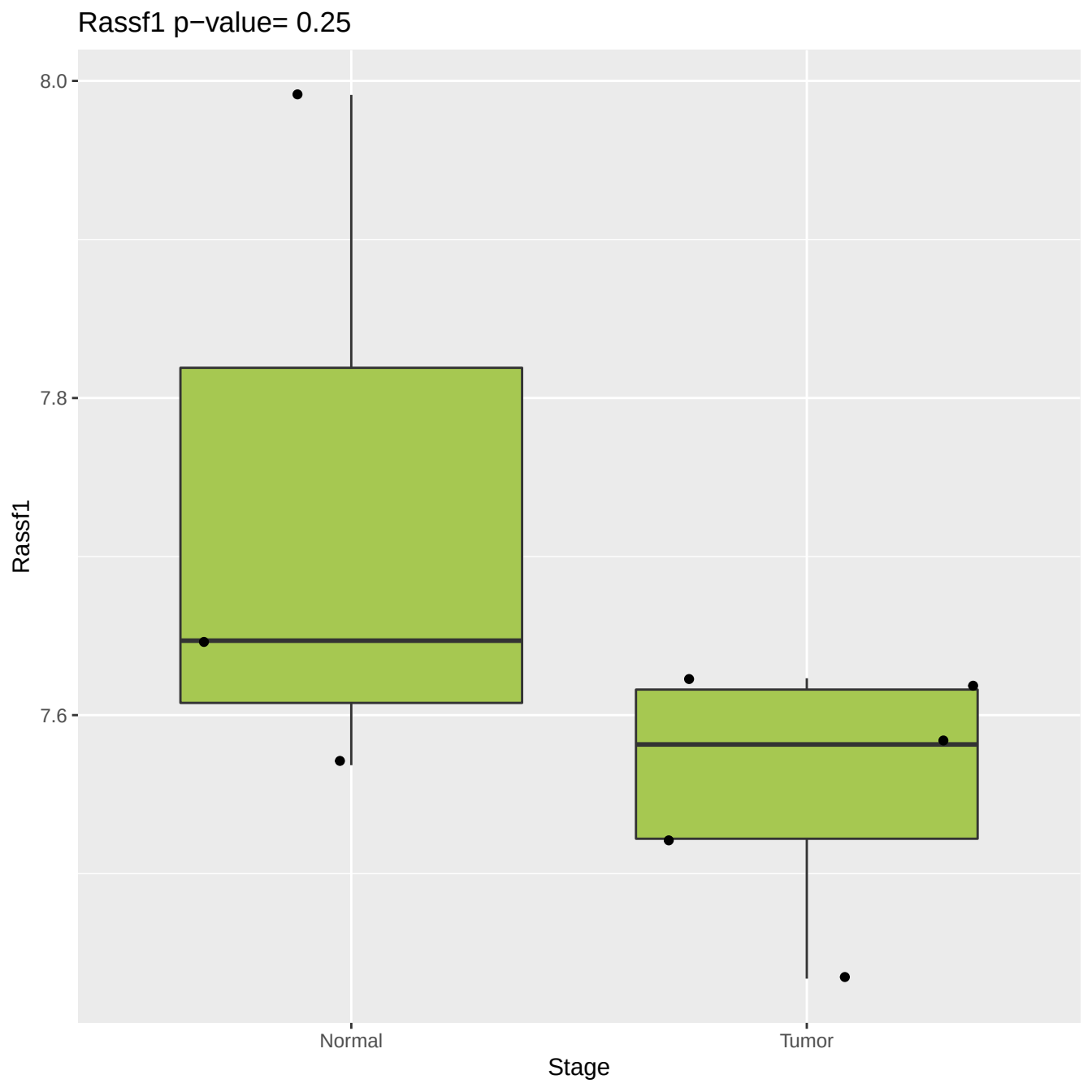

Ccnd1
9.5 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

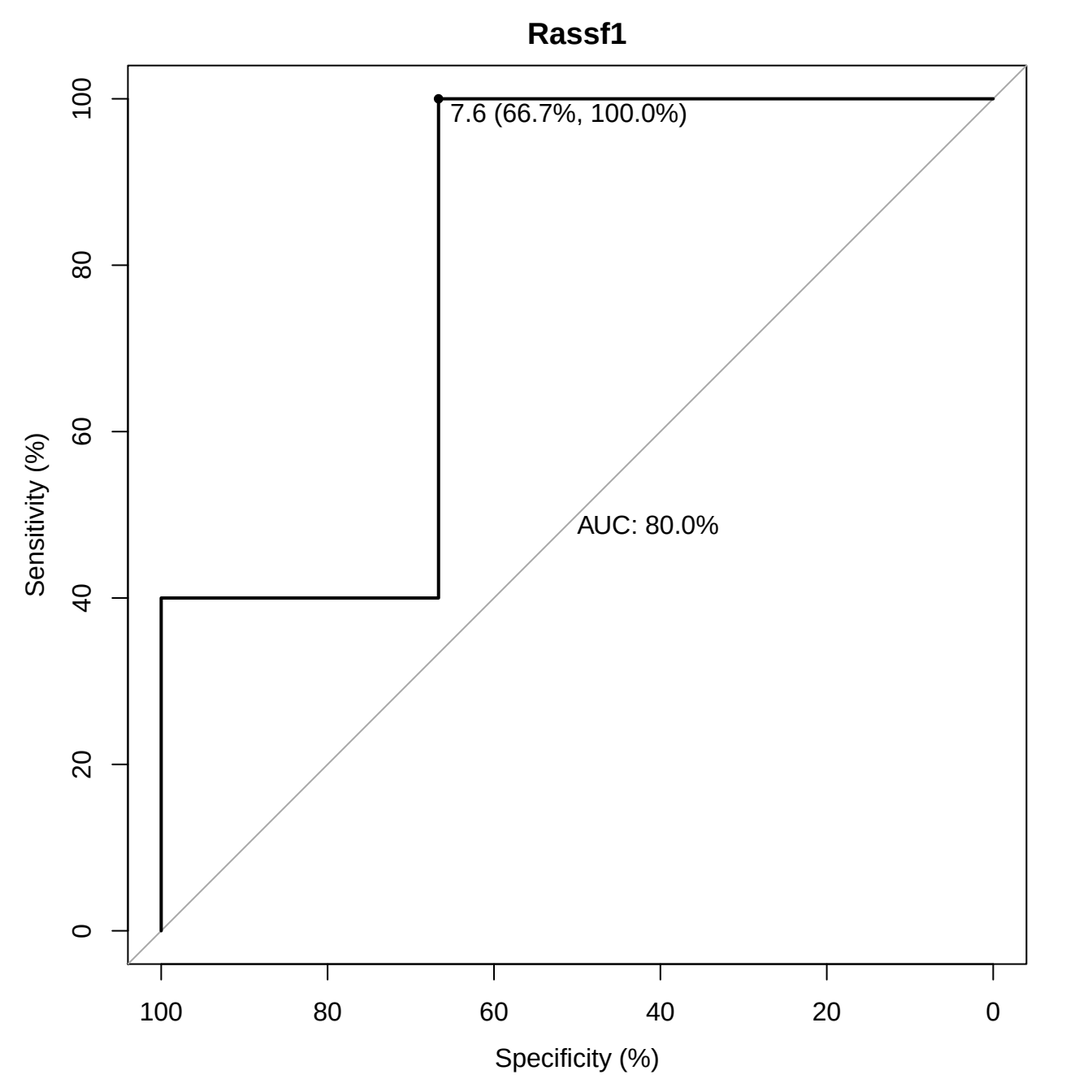

Eif4ebp1 p−value= 0.392857142857143
8.6
8.4
8.2
8.0
Eif4ebp1
Normal
Tumor
Stage

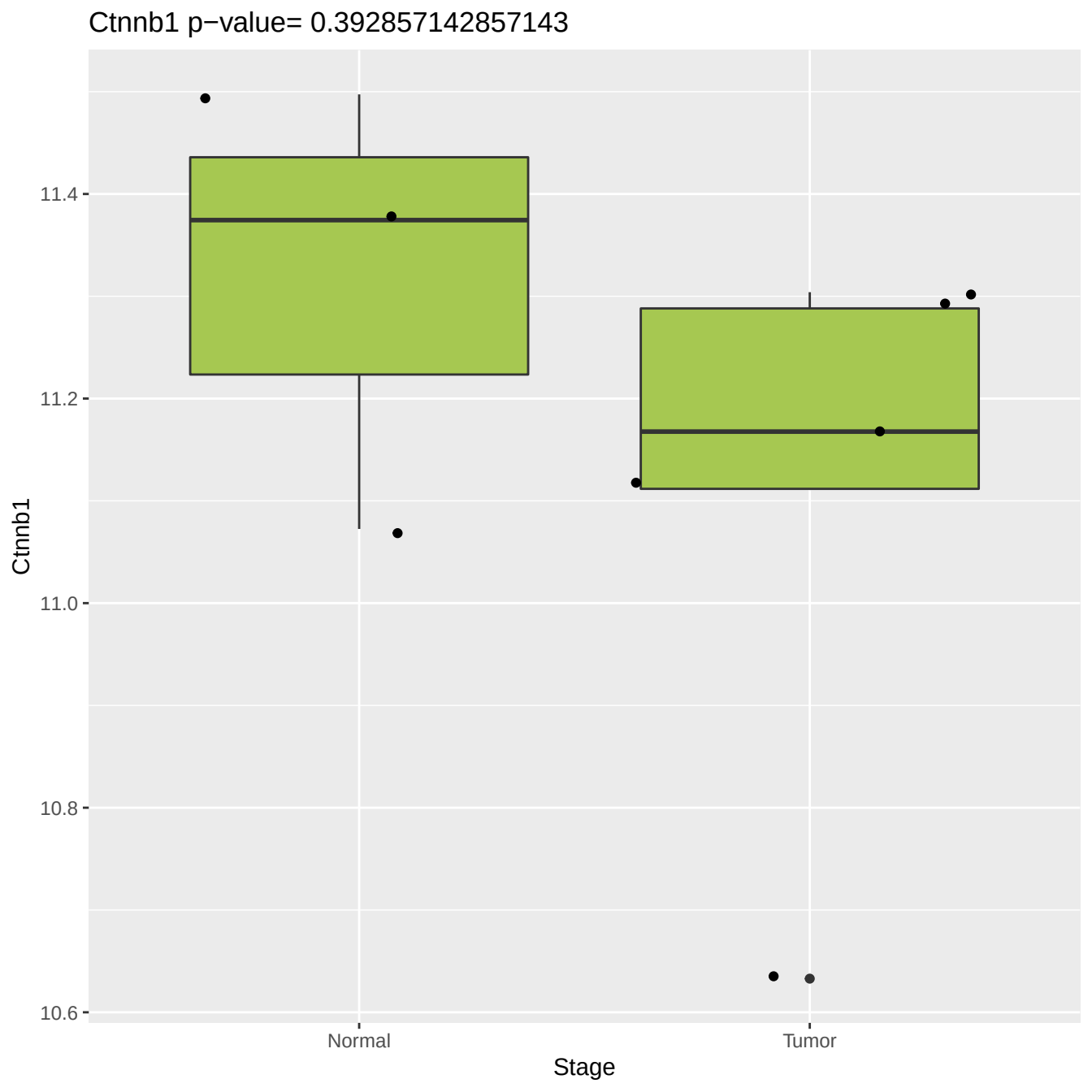

Eif4ebp1
Sensitivity (%)
100
80
60
40
20
0
8.4 (66.7%, 80.0%)
AUC: 73.3%
100
80
60
40
20
0
Specificity (%)

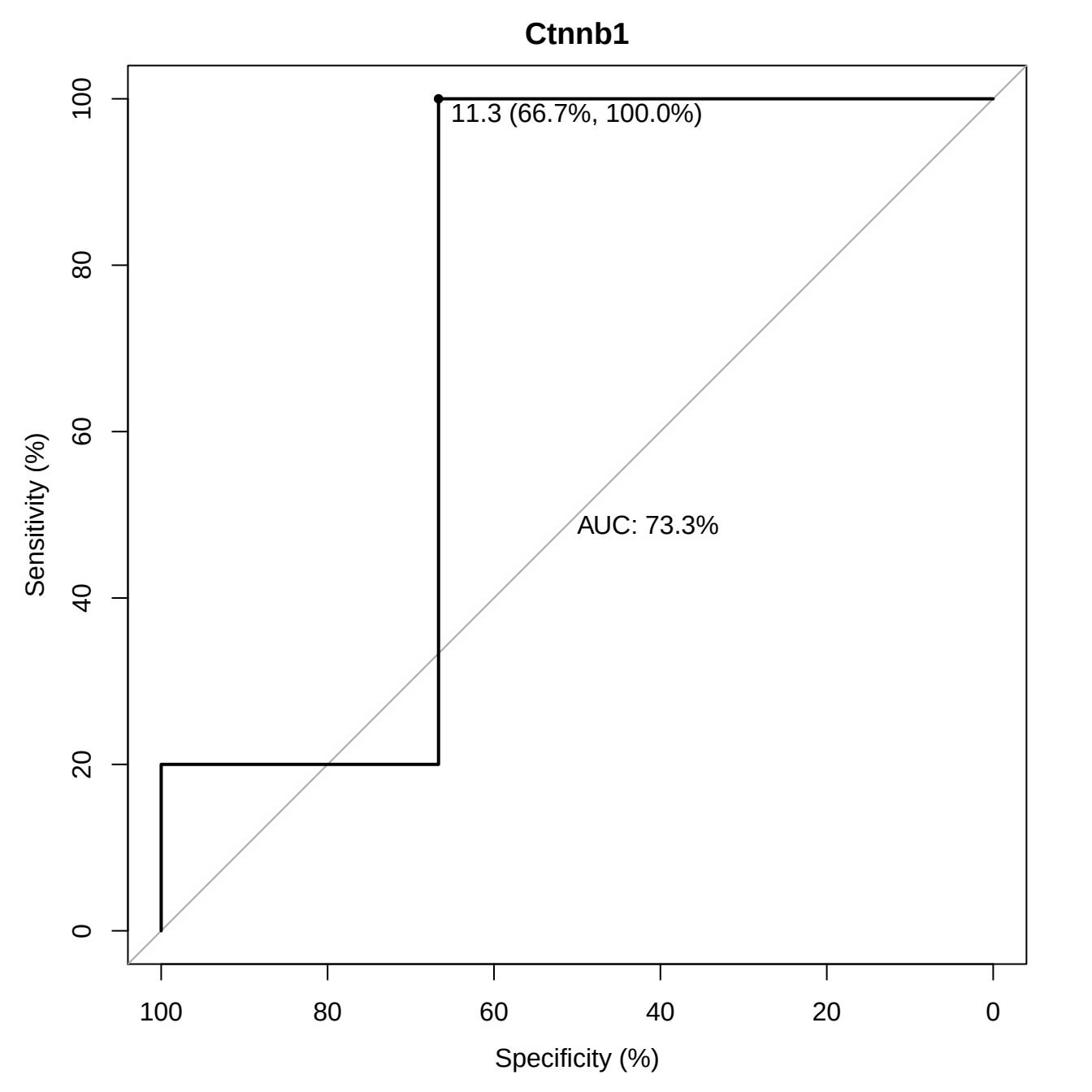

Cdh1 p−value= 0.0357142857142857
11.0
10.5
10.0
9.5
Cdh1
Normal
Tumor
Stage

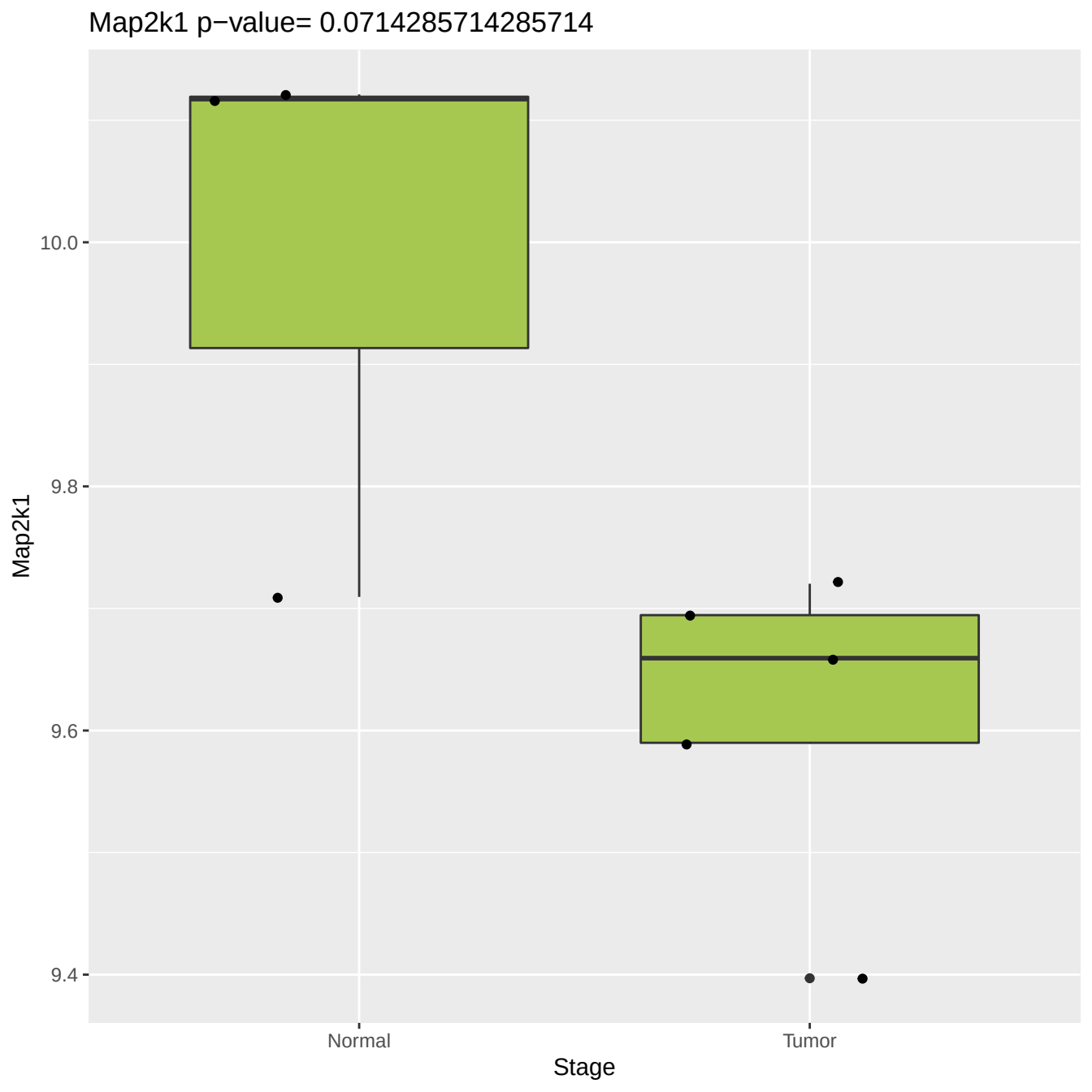

Cdh1
10.4 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

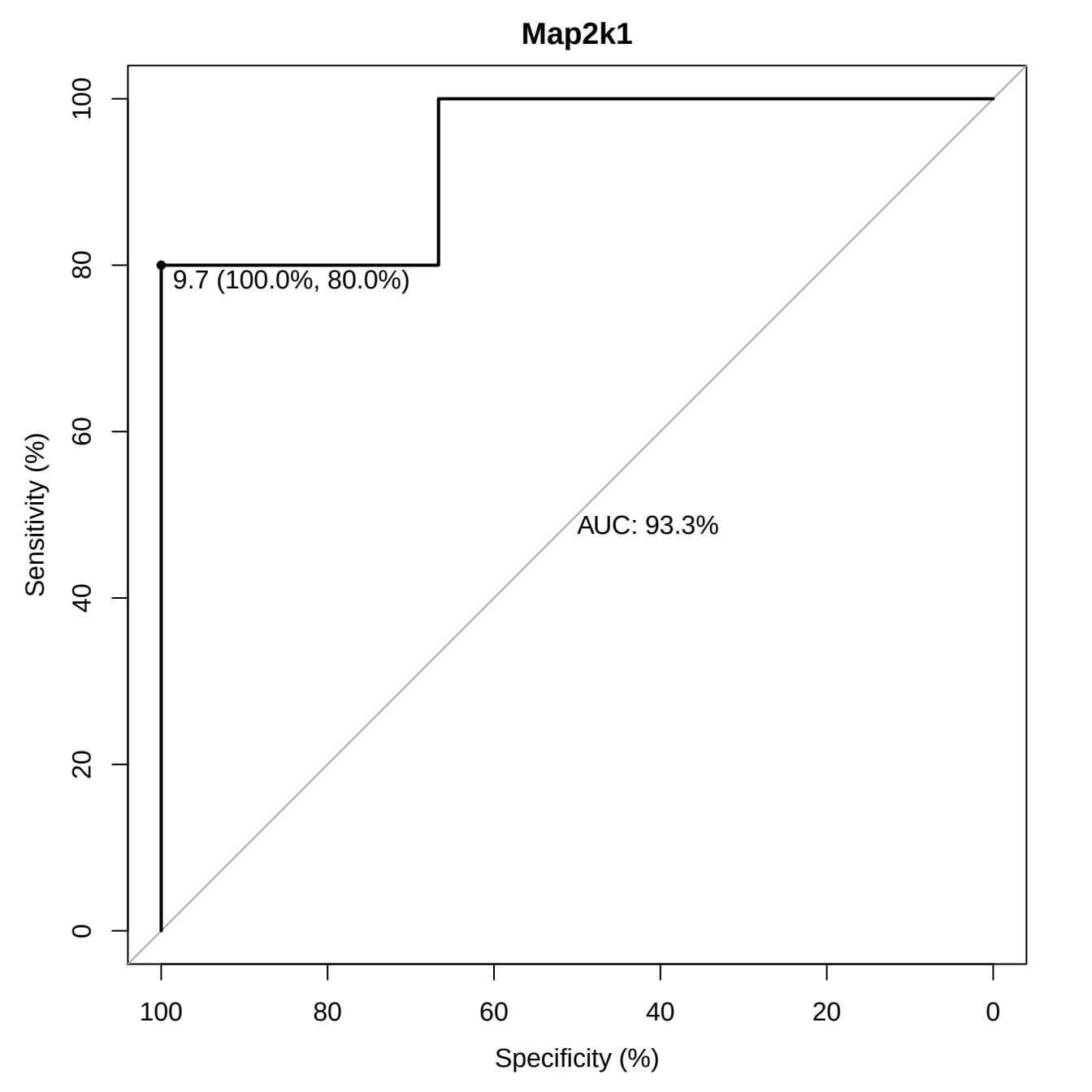

Rassf1 p−value= 0.25
8.0
7.8
7.6
Rassf1
Normal
Tumor
Stage

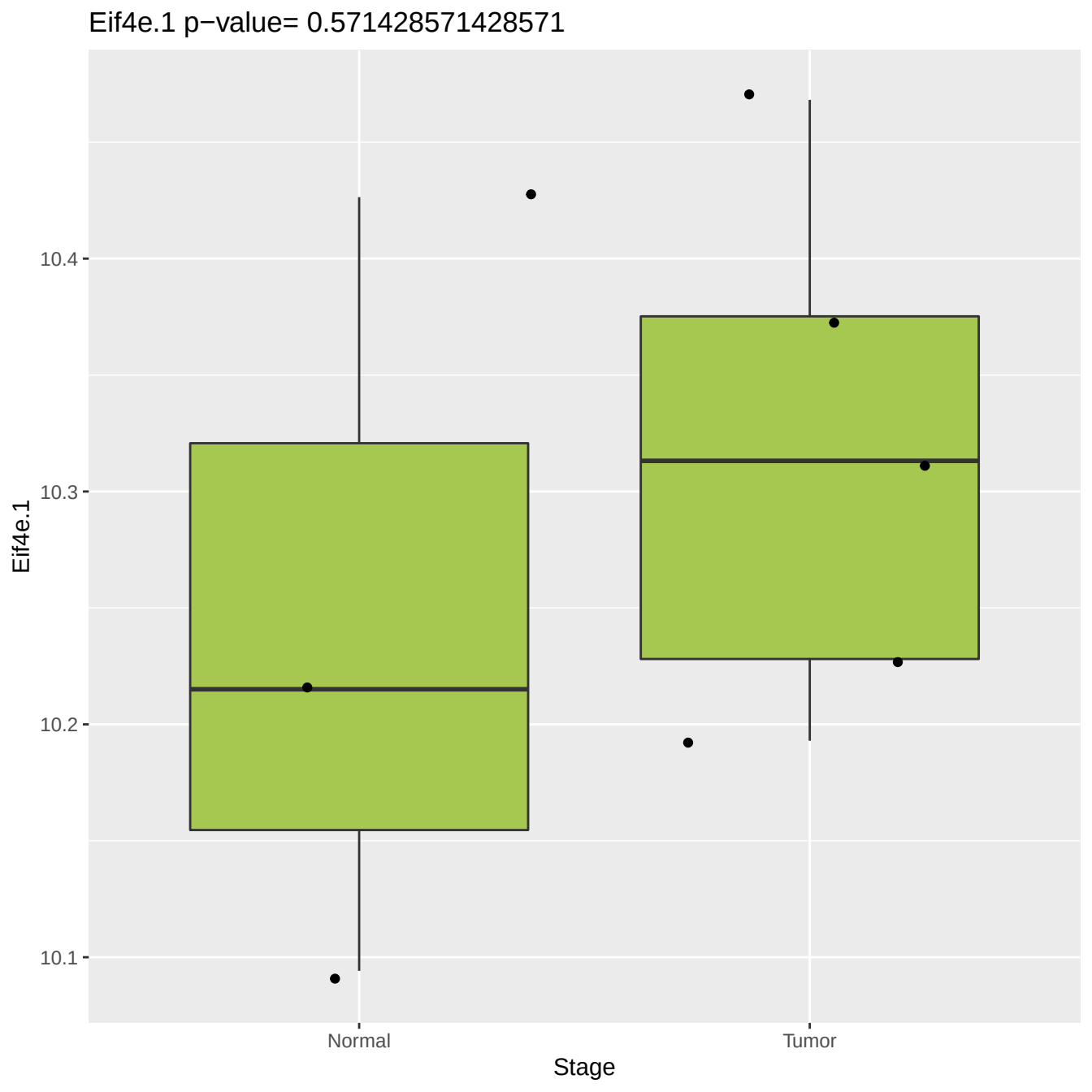

Rassf1
7.6 (66.7%, 100.0%)
AUC: 80.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

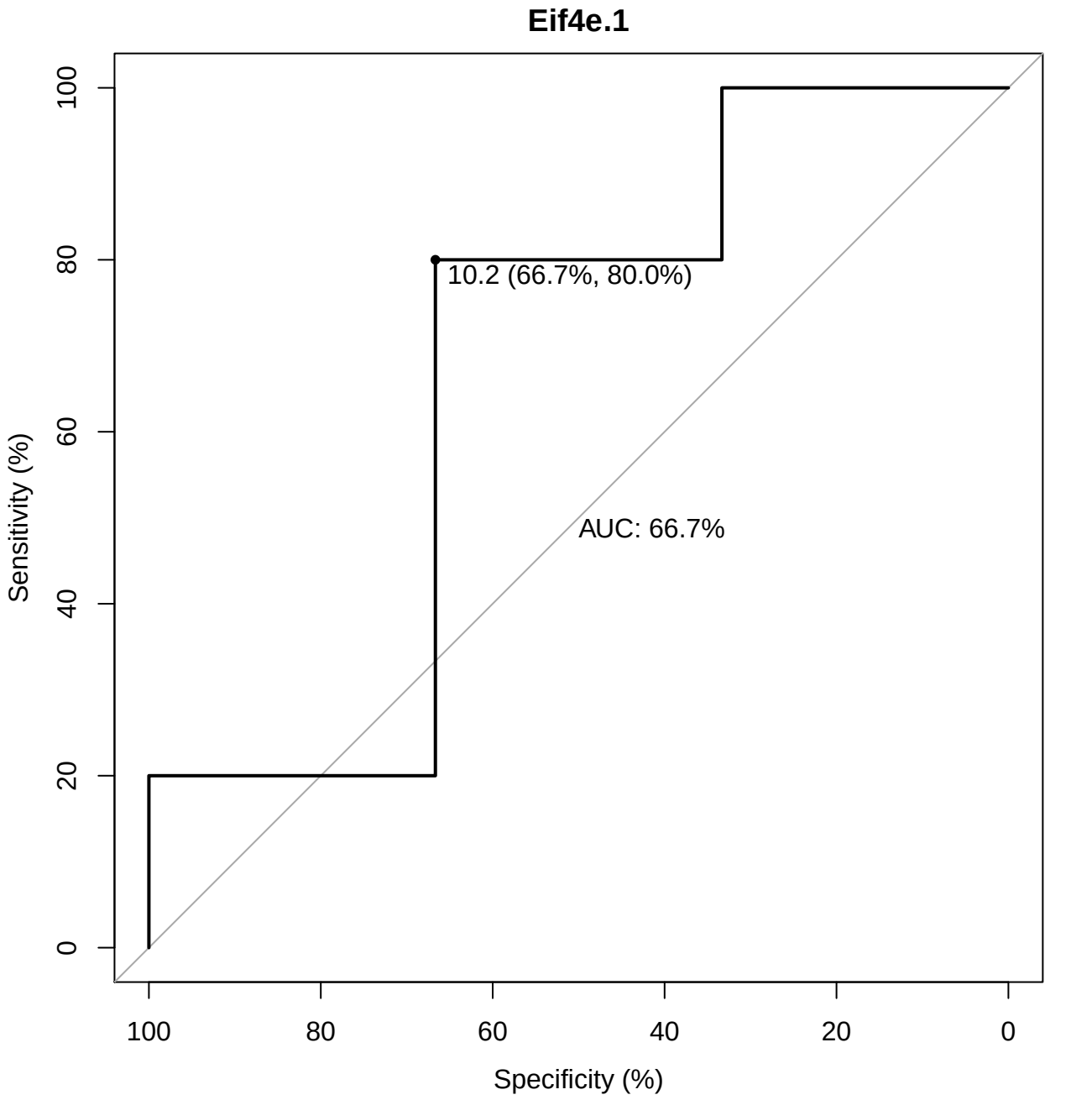

Ctnnb1 p−value= 0.392857142857143
11.4
11.2
11.0
10.8
10.6
Ctnnb1
Normal
Tumor
Stage

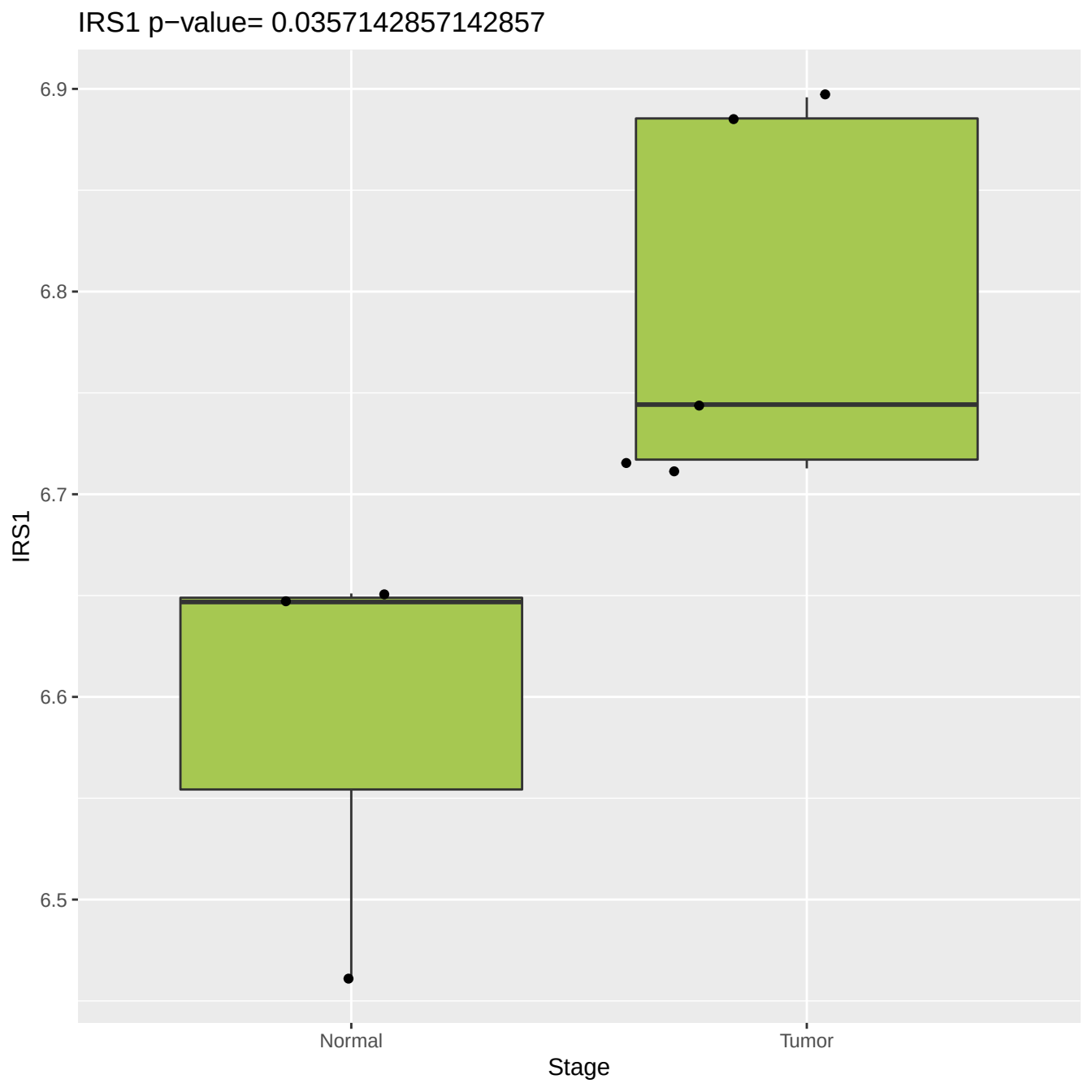

Ctnnb1
11.3 (66.7%, 100.0%)
AUC: 73.3%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0

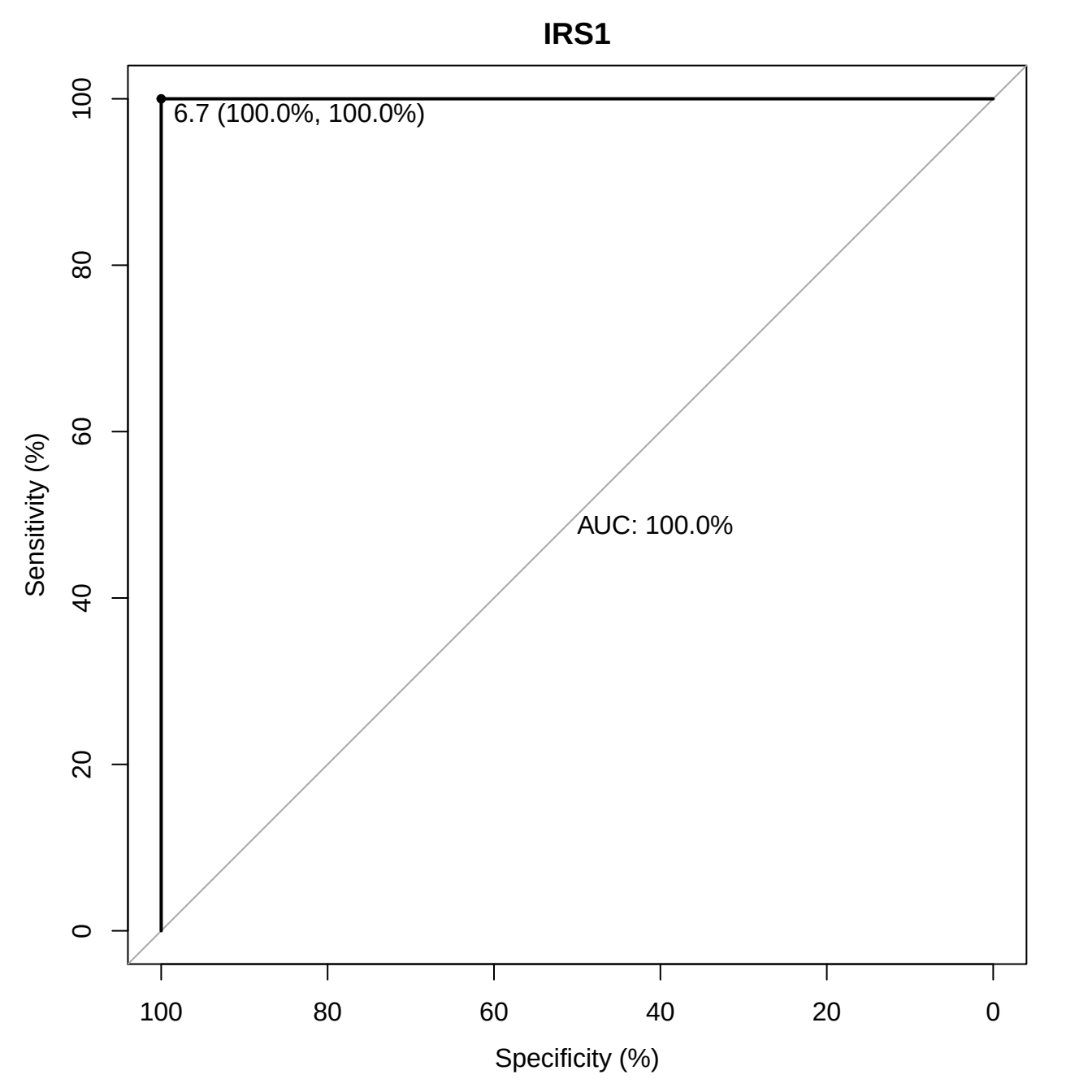

Map2k1 p−value= 0.0714285714285714
10.0
9.8
9.6
9.4
Map2k1
Normal
Tumor
Stage

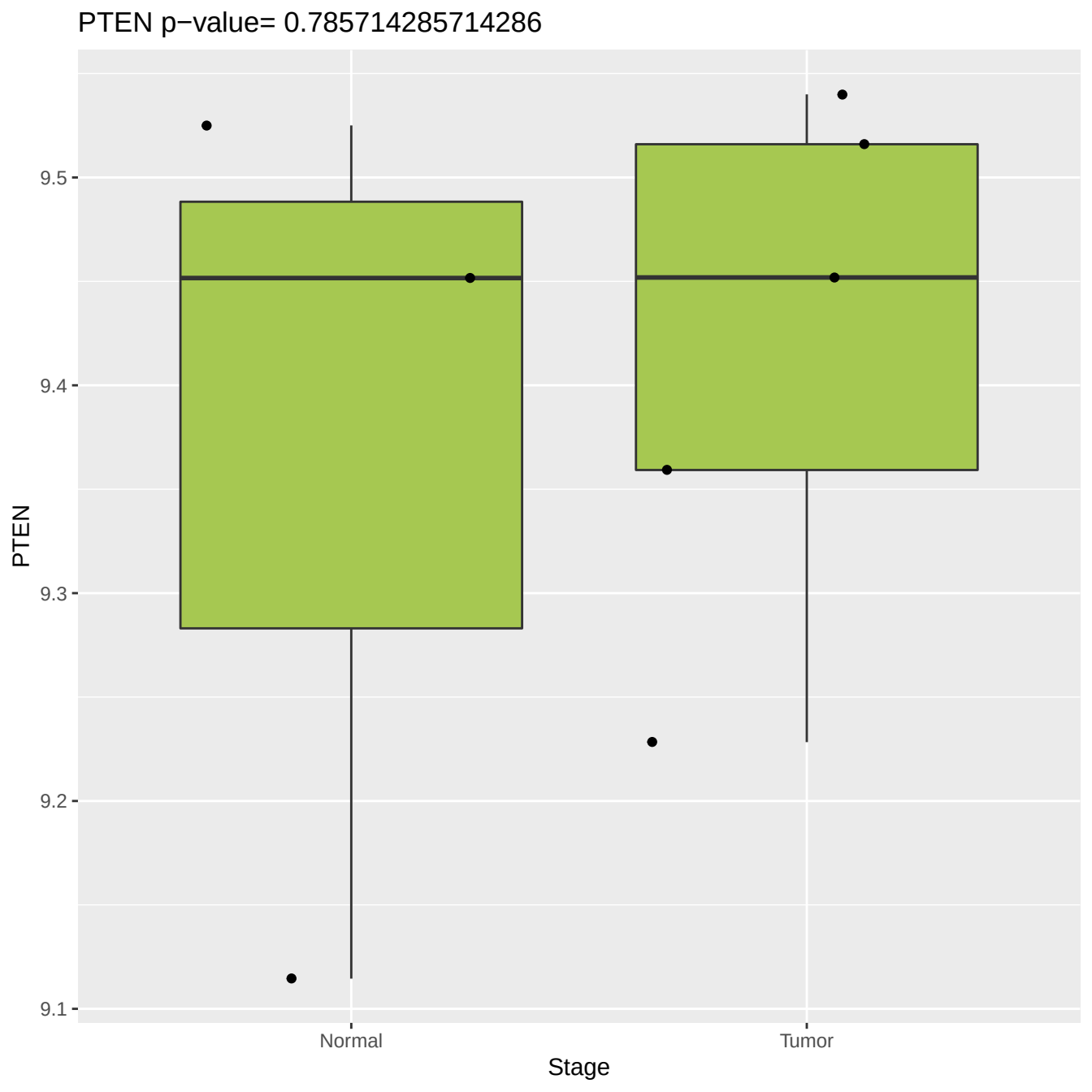

Map2k1
Sensitivity (%)
100
80
60
40
20
0
9.7 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)

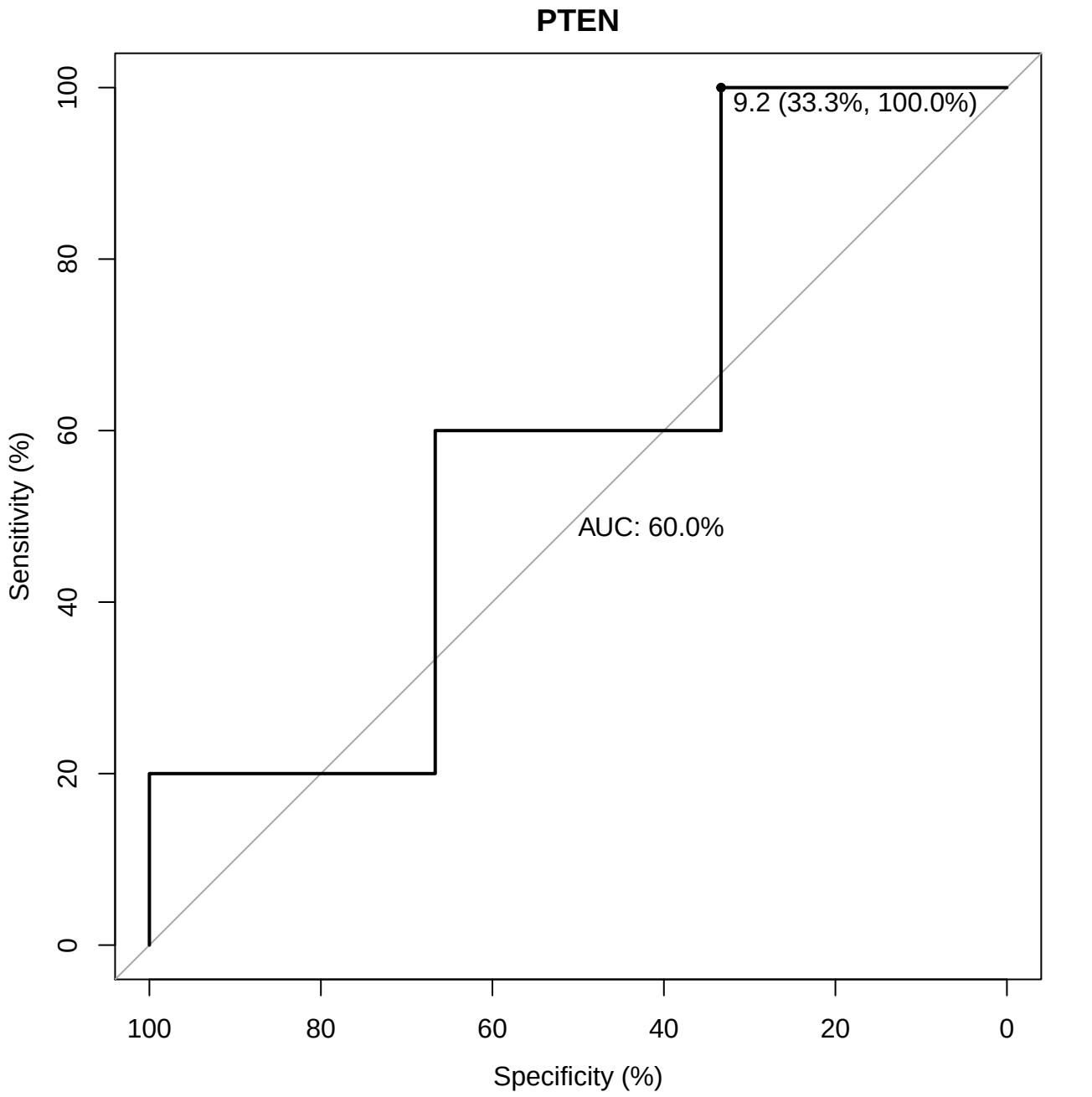

Eif4e.1 p−value= 0.571428571428571
10.4
10.3
10.2
10.1
Eif4e.1
Normal
Tumor
Stage

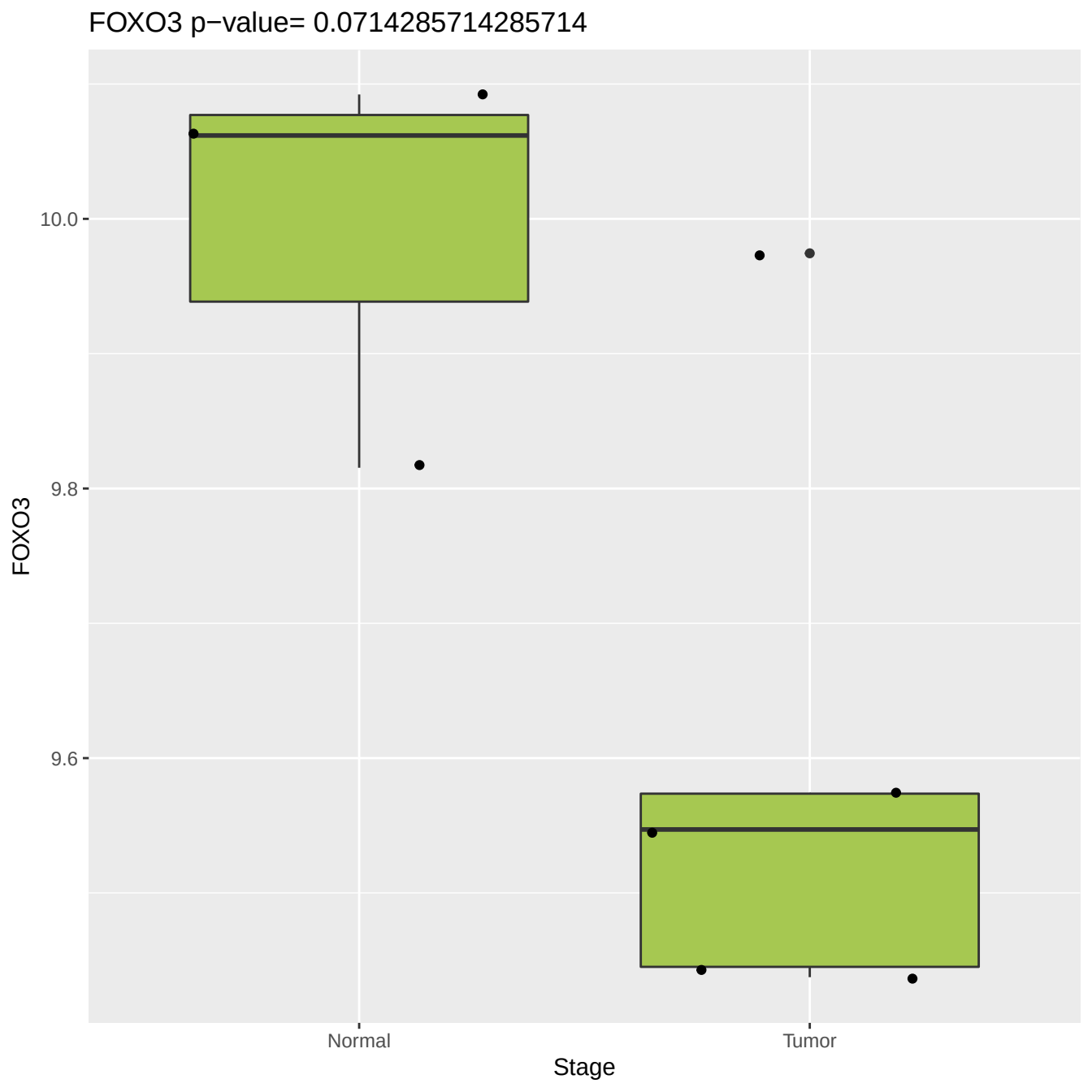

Eif4e.1
Sensitivity (%)
100
80
60
40
20
0
10.2 (66.7%, 80.0%)
AUC: 66.7%
100
80
60
40
20
0
Specificity (%)

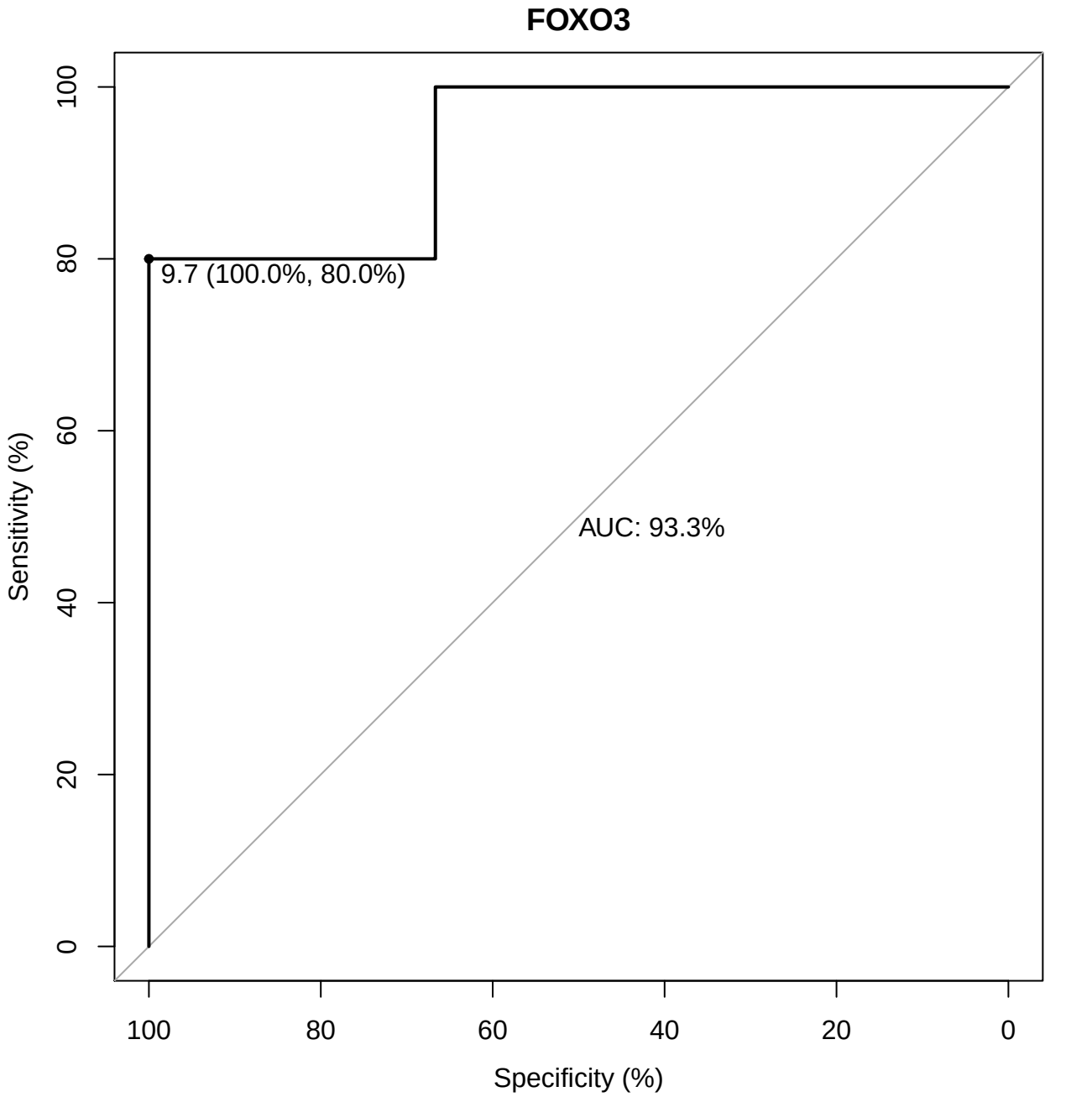

IRS1 p−value= 0.0357142857142857
6.9
6.8
6.7
6.6
6.5
IRS1
Normal
Tumor
Stage

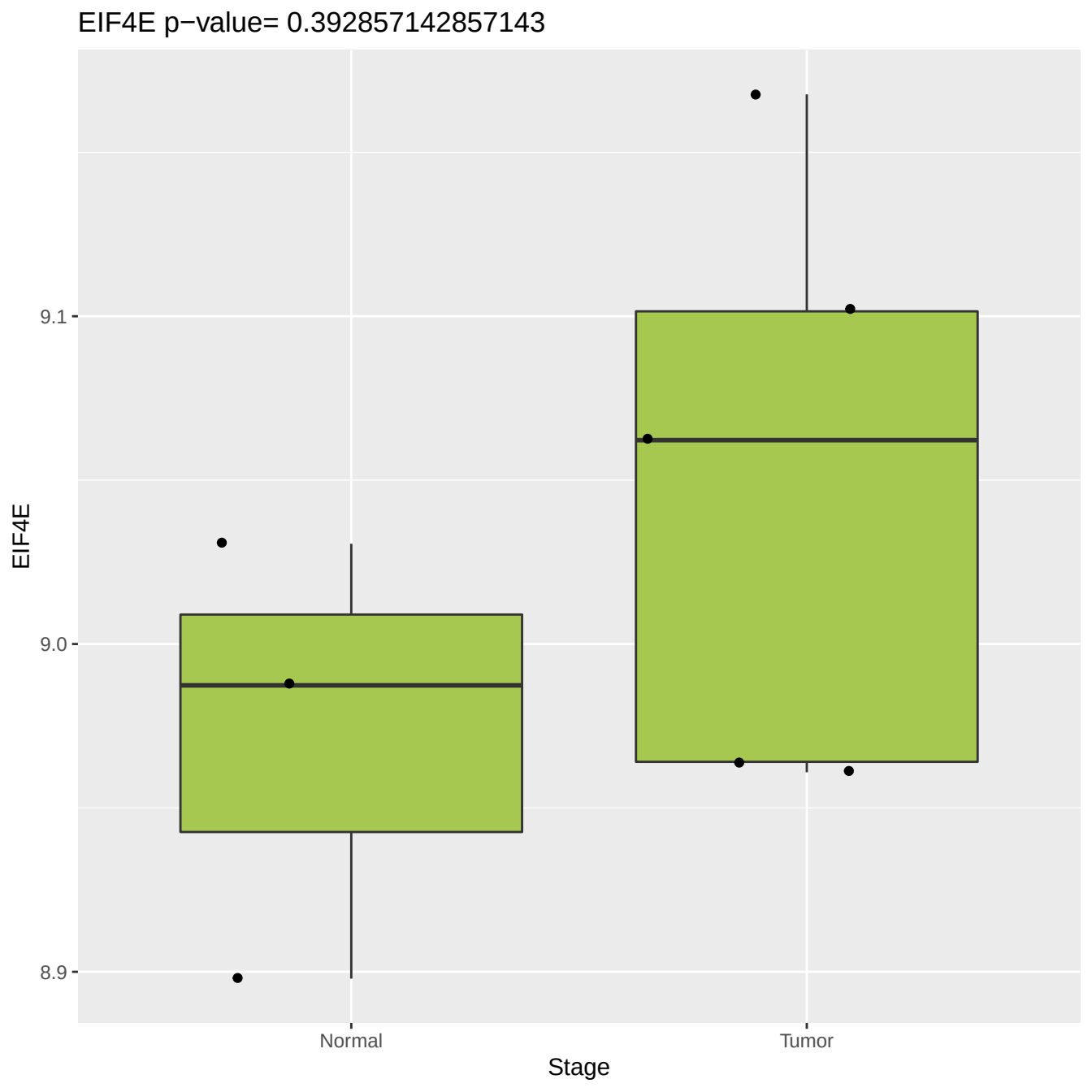

IRS1
6.7 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

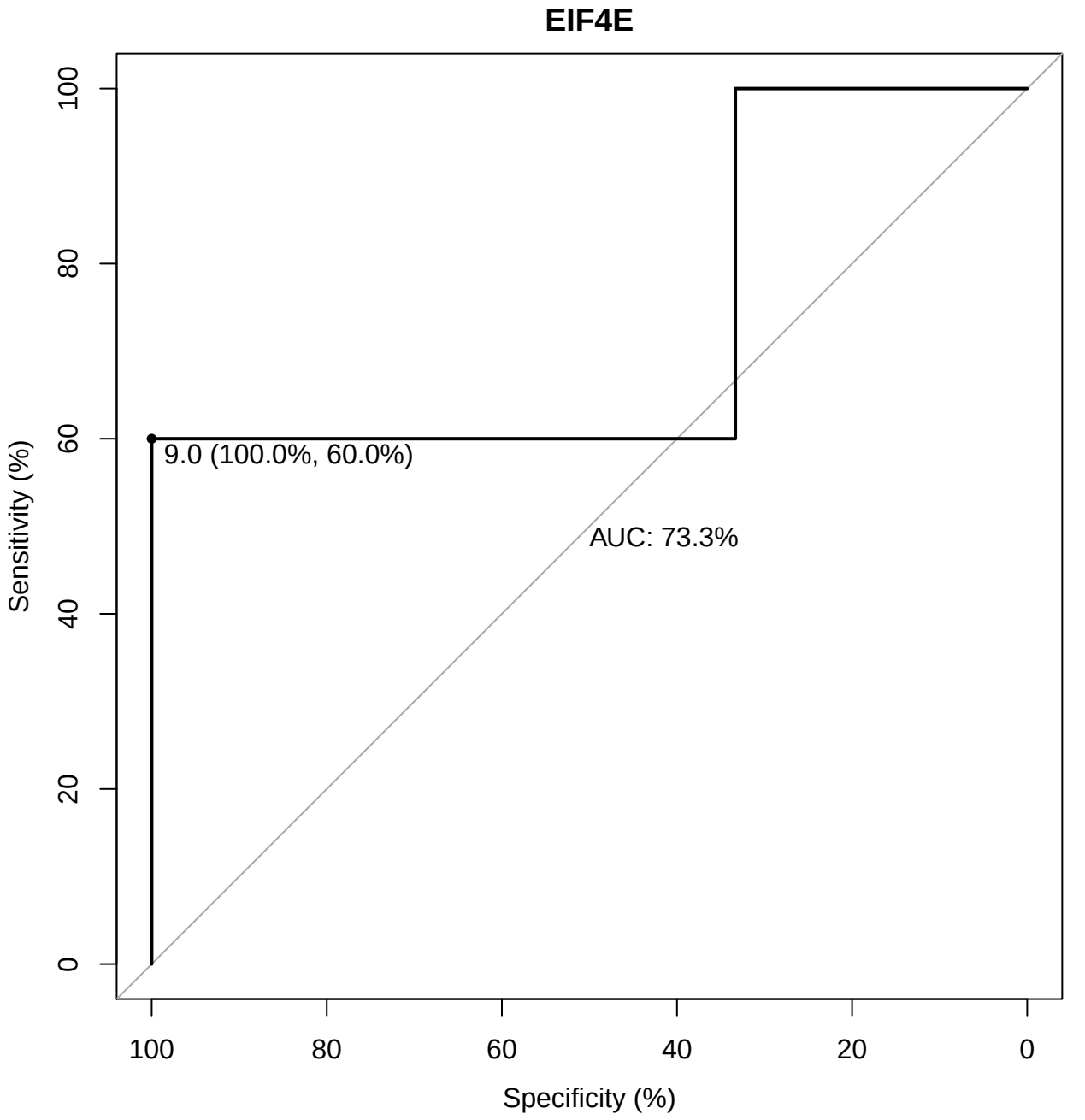

PTEN p−value= 0.785714285714286
9.5
9.4
9.3
9.2
9.1
PTEN
Normal
Tumor
Stage

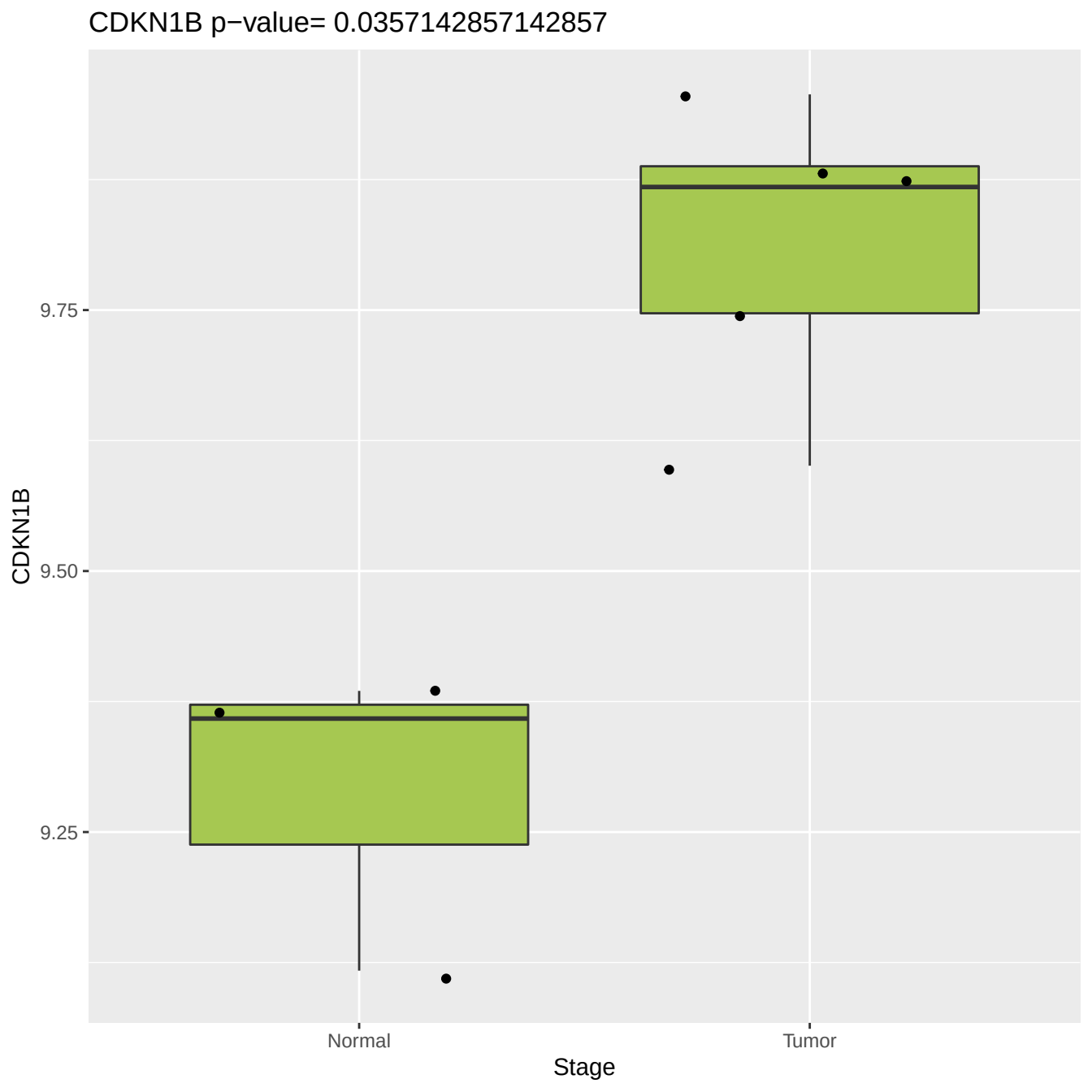

PTEN
9.2 (33.3%, 100.0%)
AUC: 60.0%
Sensitivity (%)
100
80
60
40
20
0
Specificity (%)
100
80
60
40
20
0

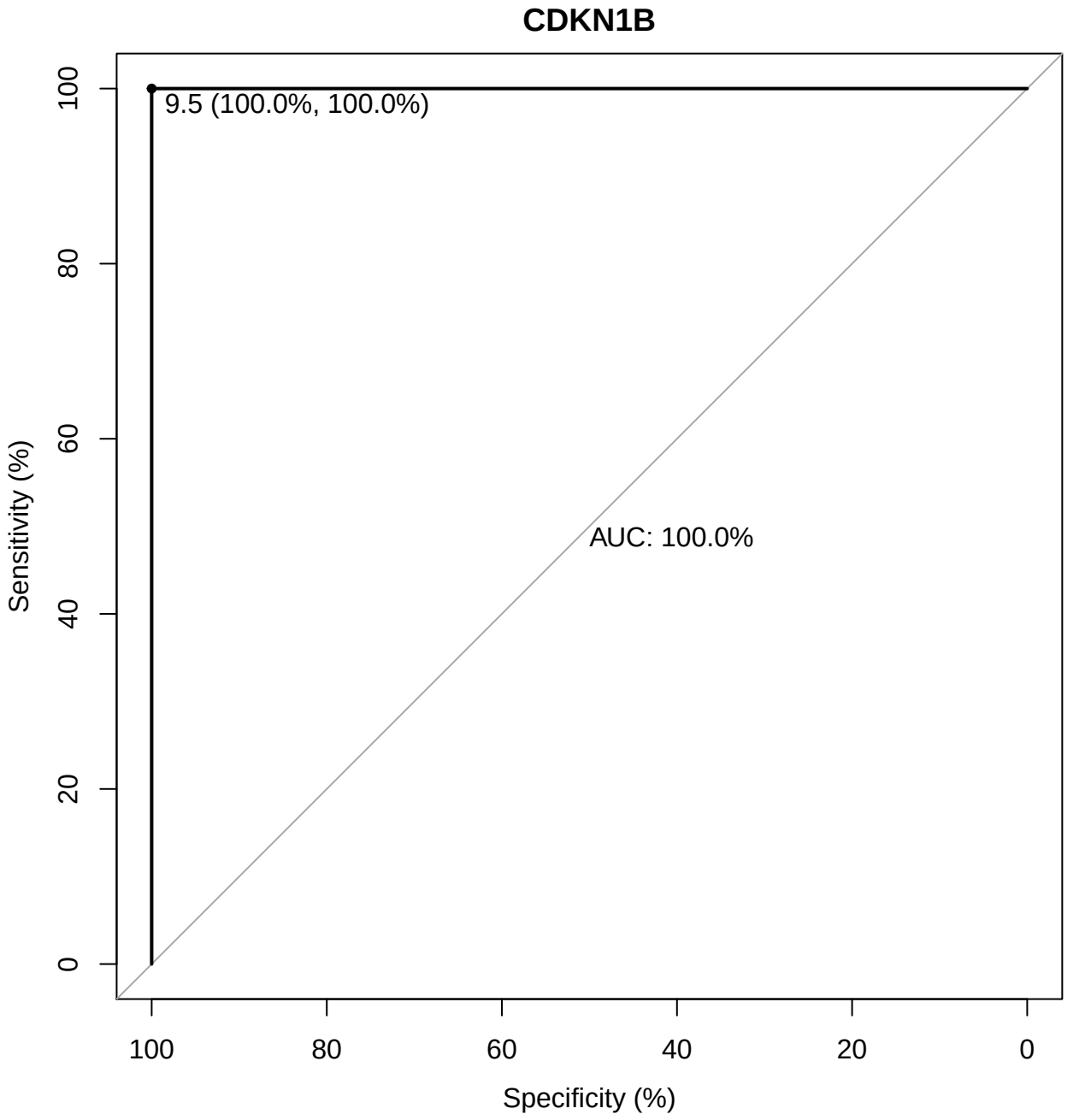

FOXO3 p−value= 0.0714285714285714
10.0
9.8
9.6
FOXO3
Normal
Tumor
Stage


FOXO3
Sensitivity (%)
100
80
60
40
20
0
9.7 (100.0%, 80.0%)
AUC: 93.3%
100
80
60
40
20
0
Specificity (%)


EIF4E p−value= 0.392857142857143
9.1
9.0
8.9
EIF4E
Normal
Tumor
Stage


EIF4E
Sensitivity (%)
100
80
60
40
20
0
9.0 (100.0%, 60.0%)
AUC: 73.3%
100
80
60
40
20
0
Specificity (%)


CDKN1B p−value= 0.0357142857142857
9.75
9.50
9.25
CDKN1B
Normal
Tumor
Stage


CDKN1B
9.5 (100.0%, 100.0%)
AUC: 100.0%
Sensitivity (%)
Specificity (%)
100
80
60
40
20
0