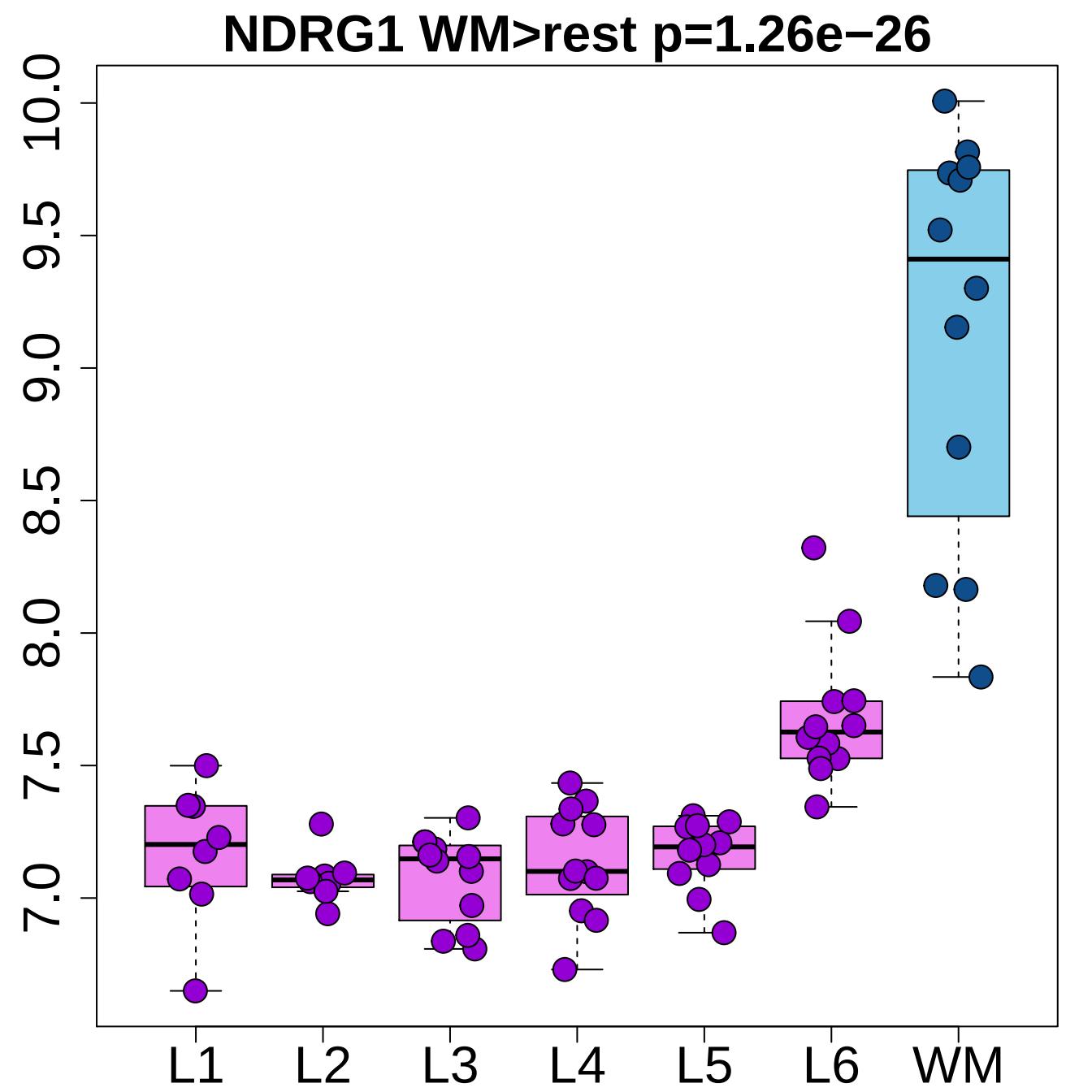
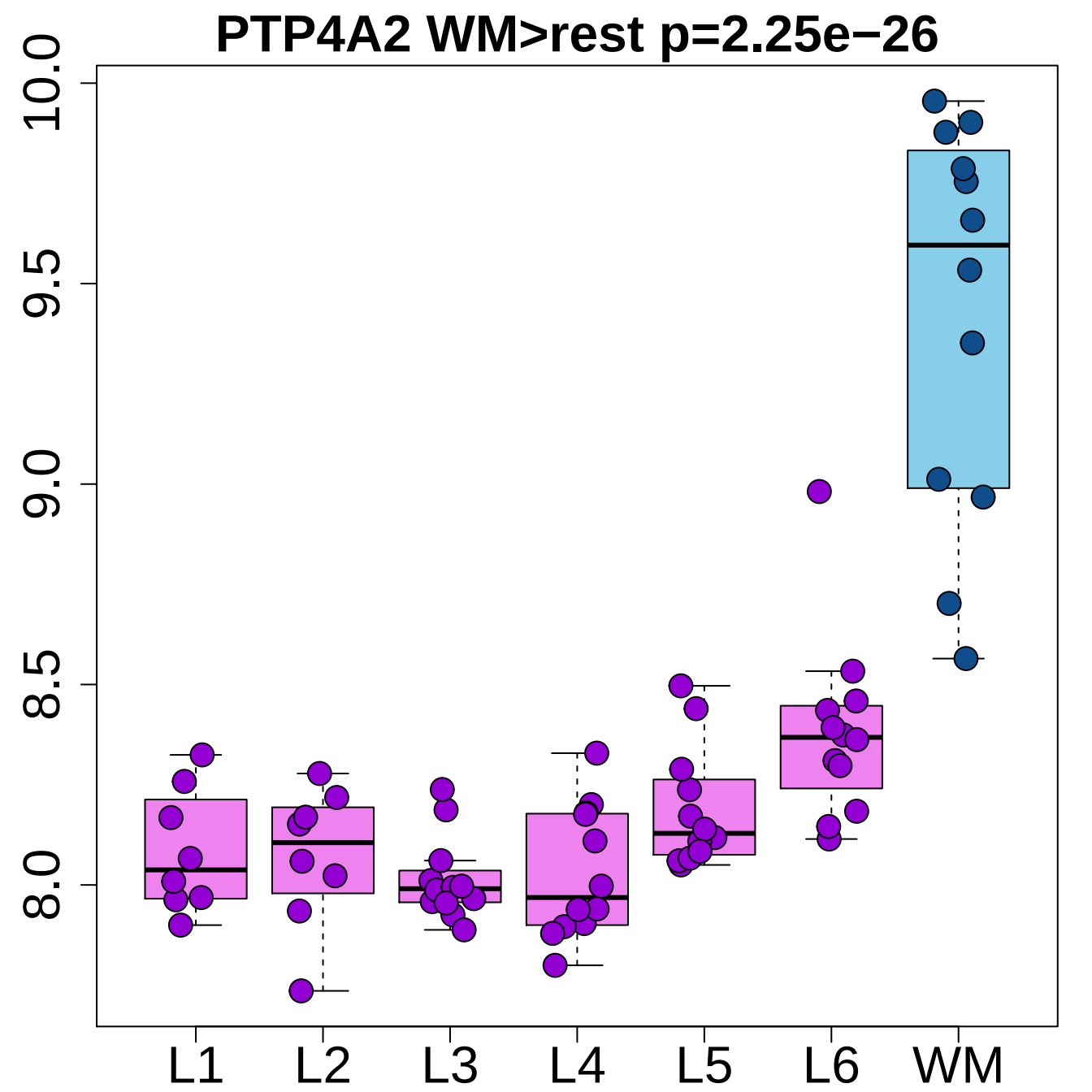
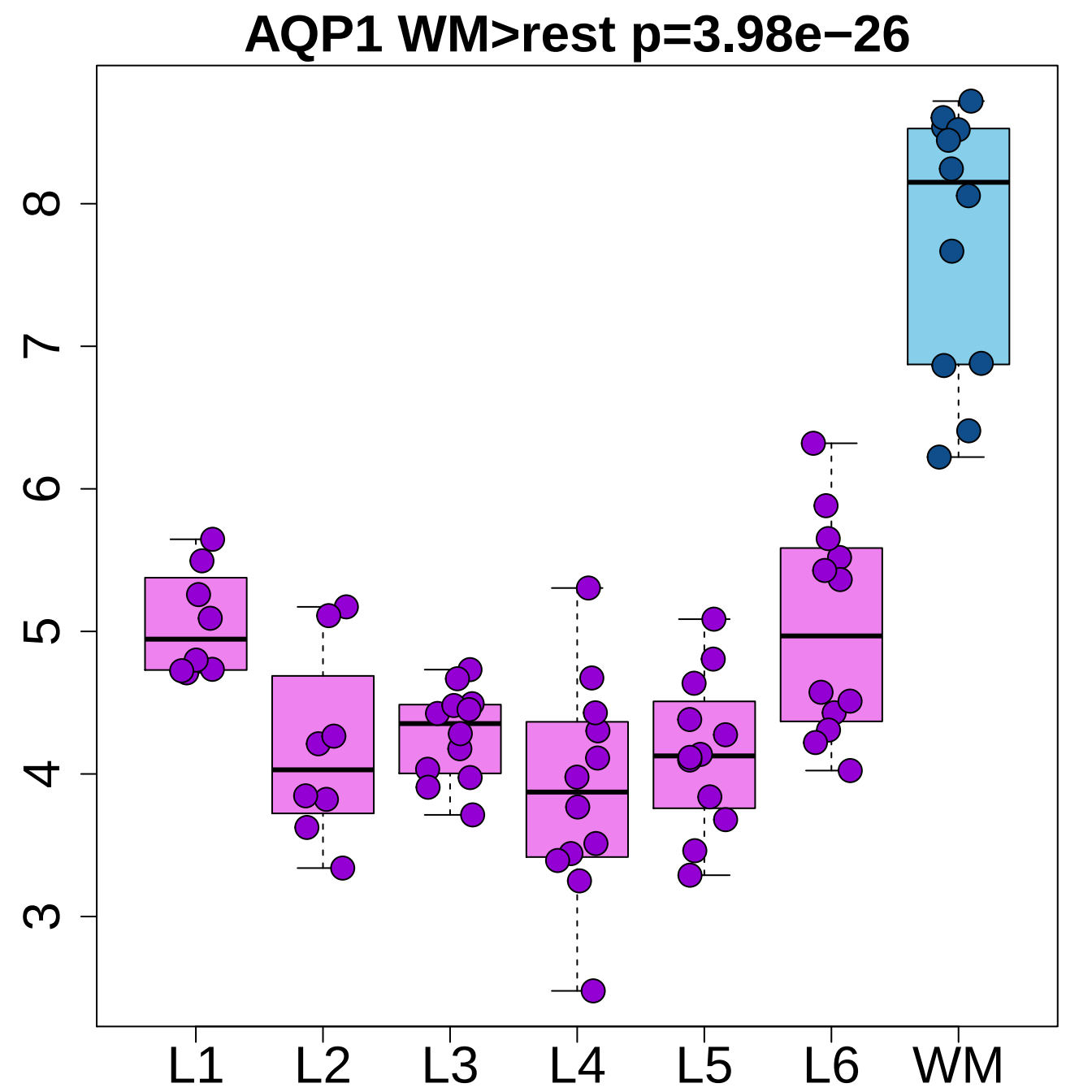
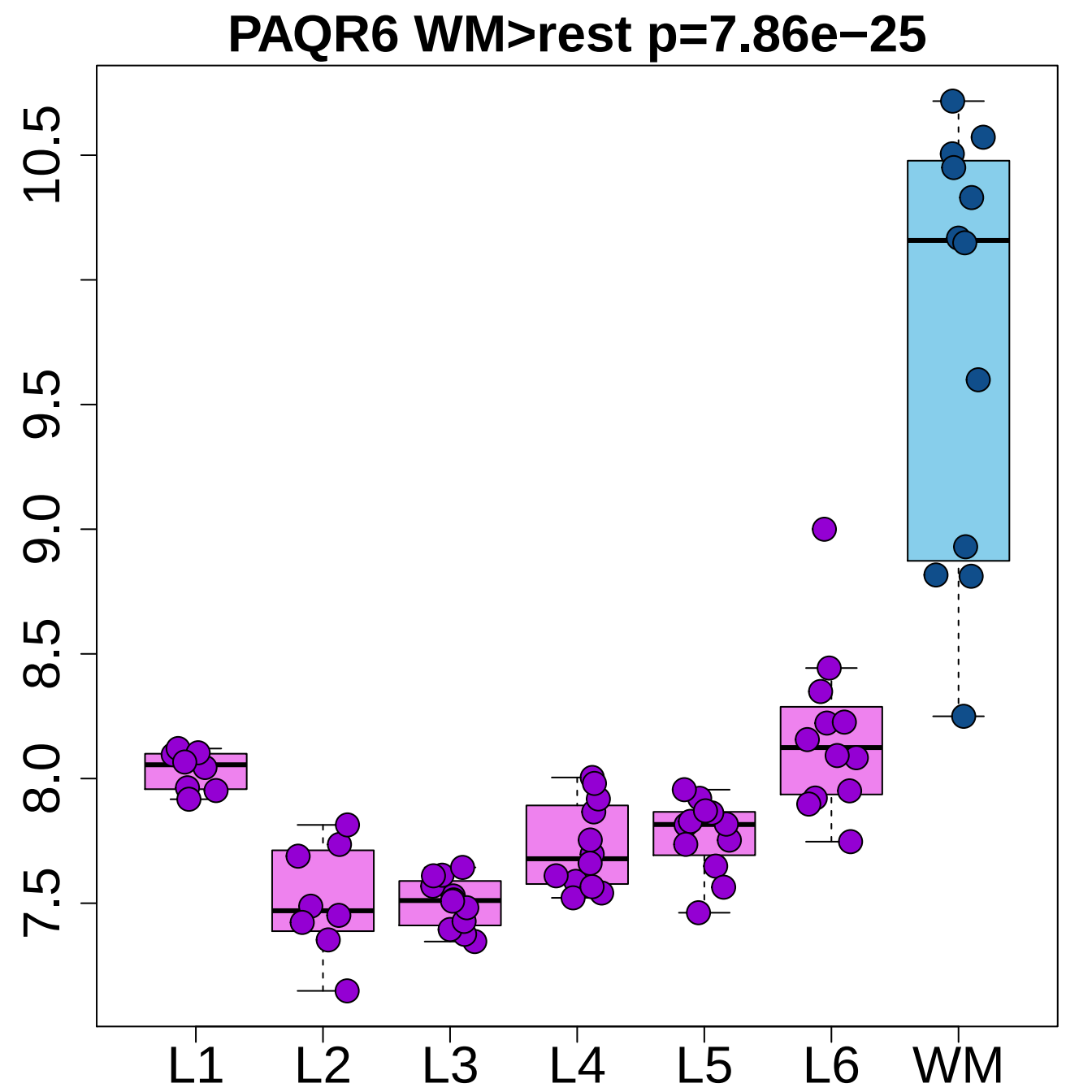
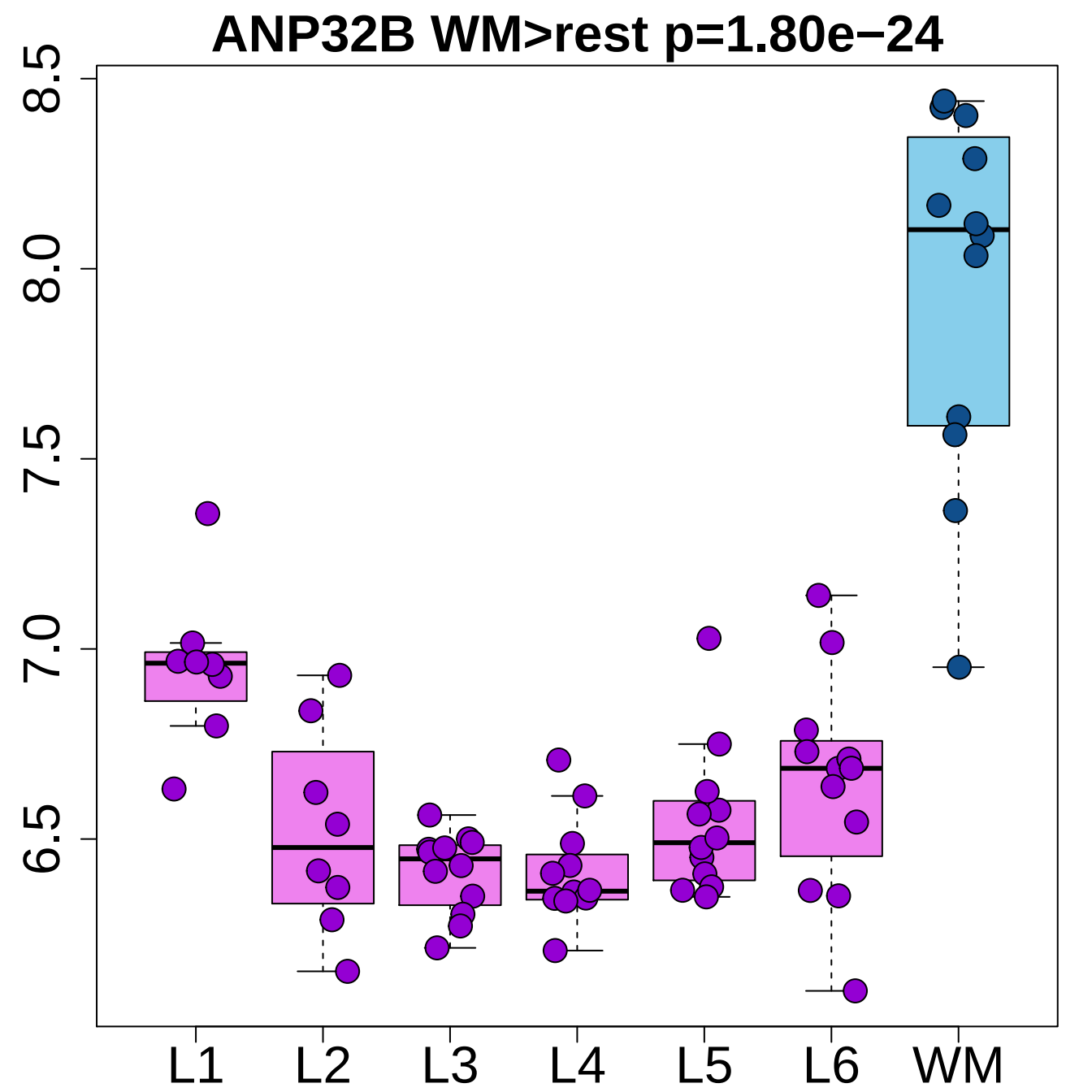
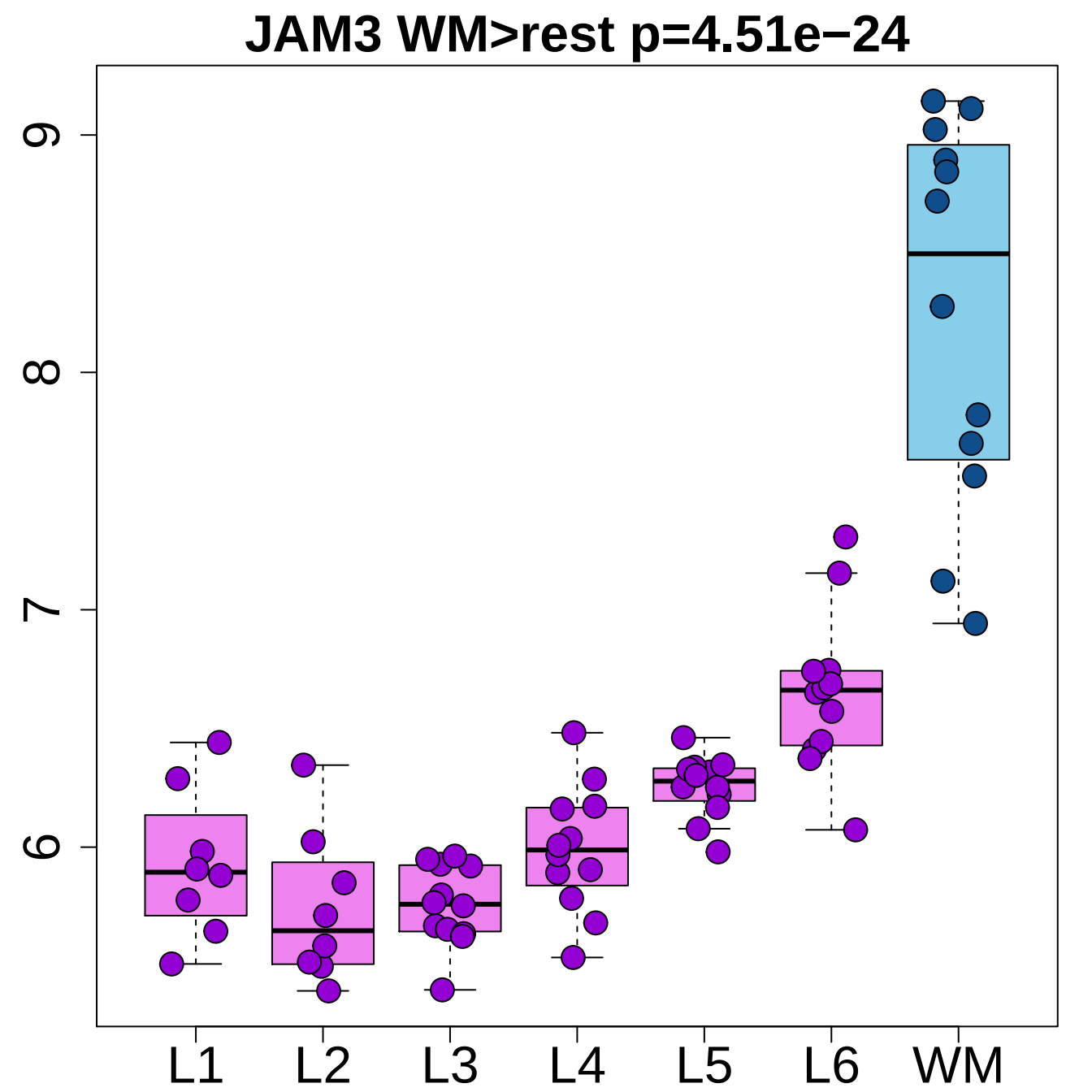

NDRG1 WM>rest p=1.26e−26
10.0
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

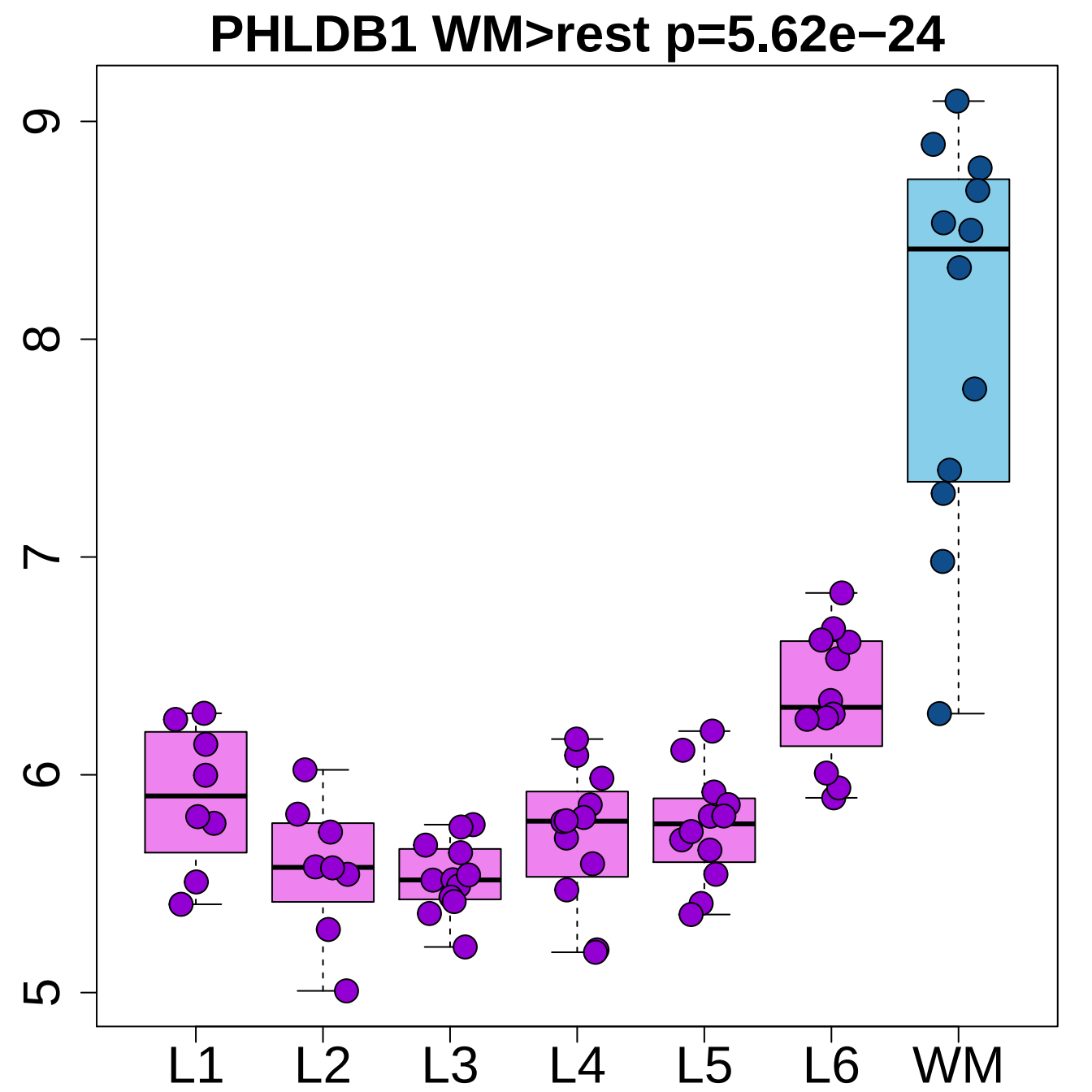

PTP4A2 WM>rest p=2.25e−26
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

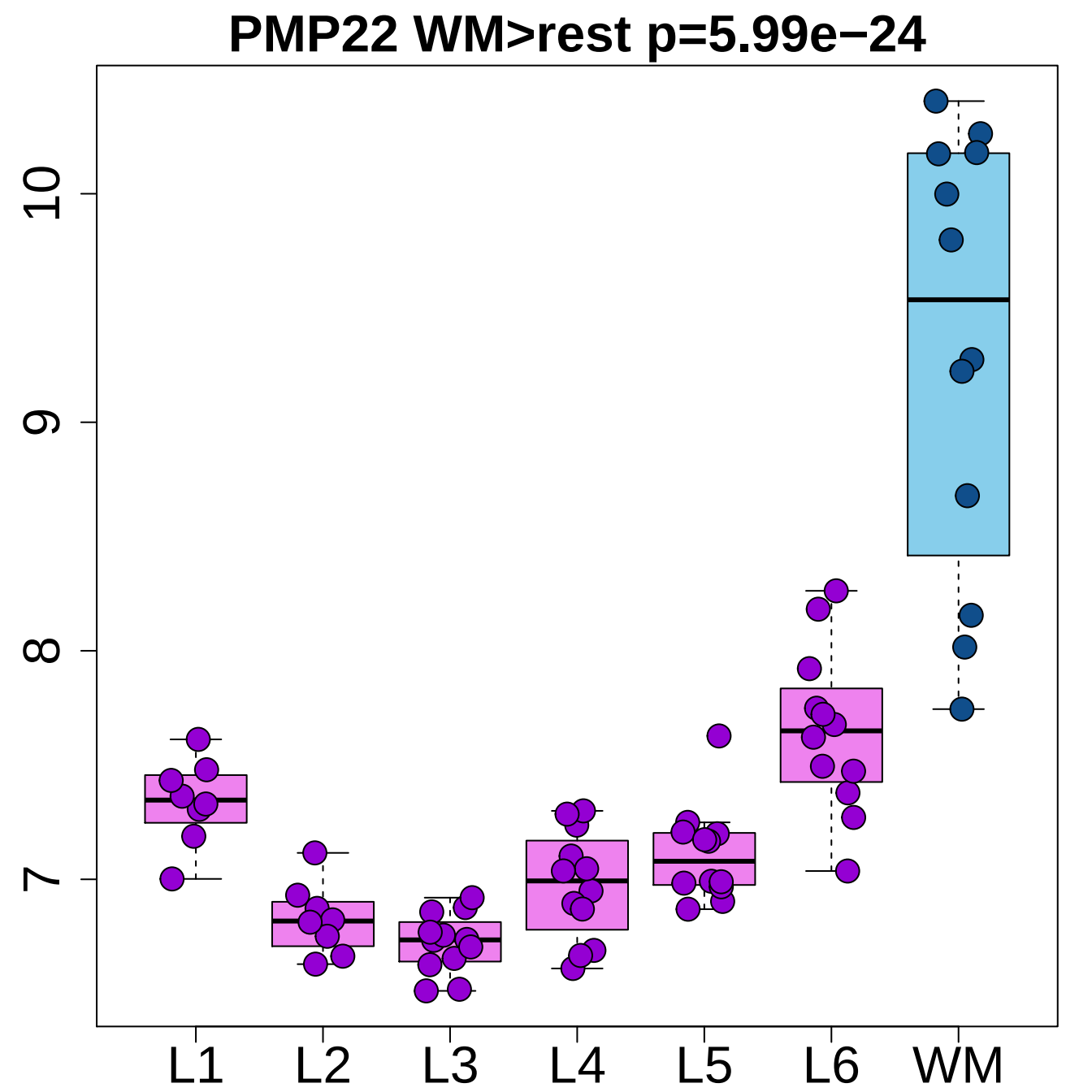

AQP1 WM>rest p=3.98e−26
8
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM

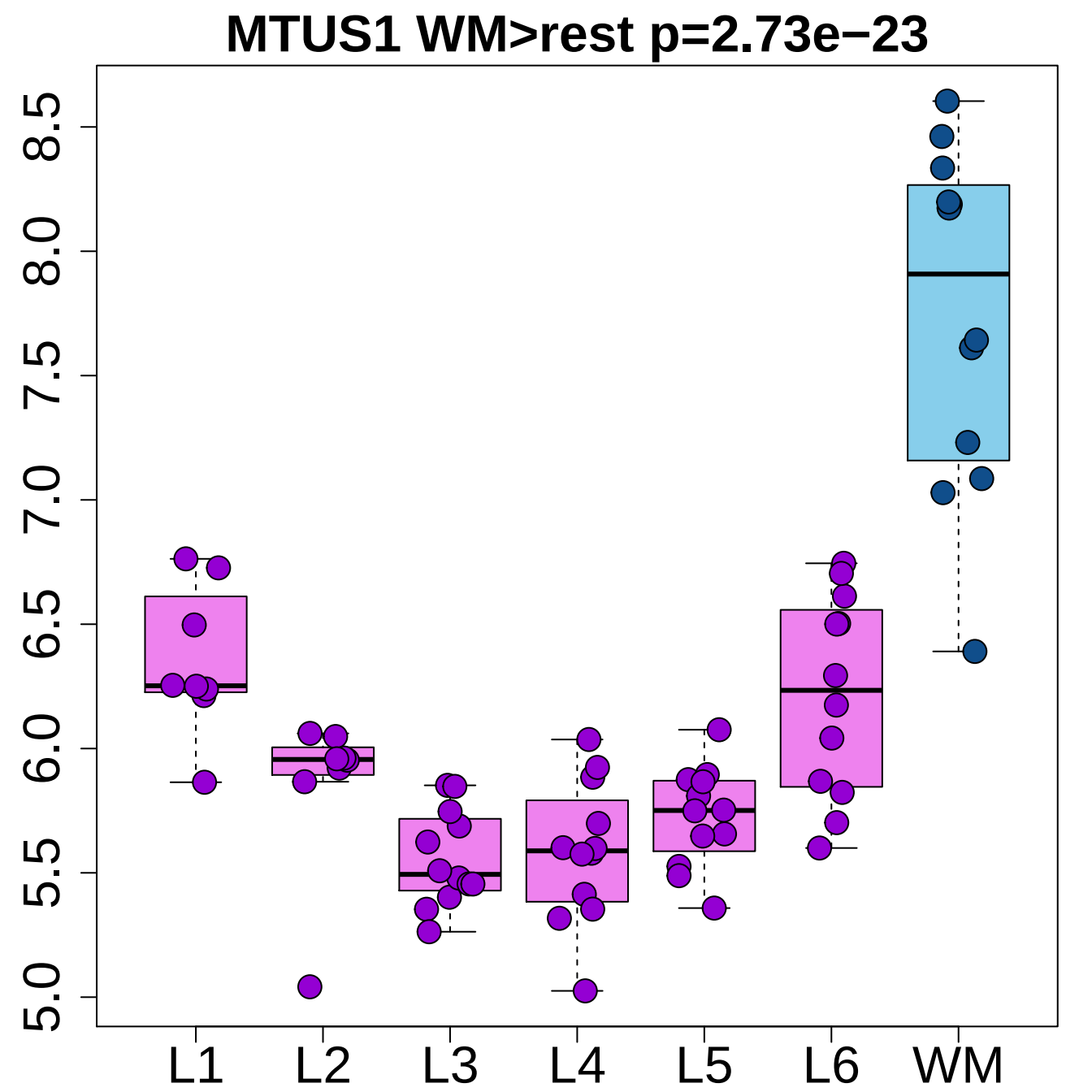

PAQR6 WM>rest p=7.86e−25
10.5
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

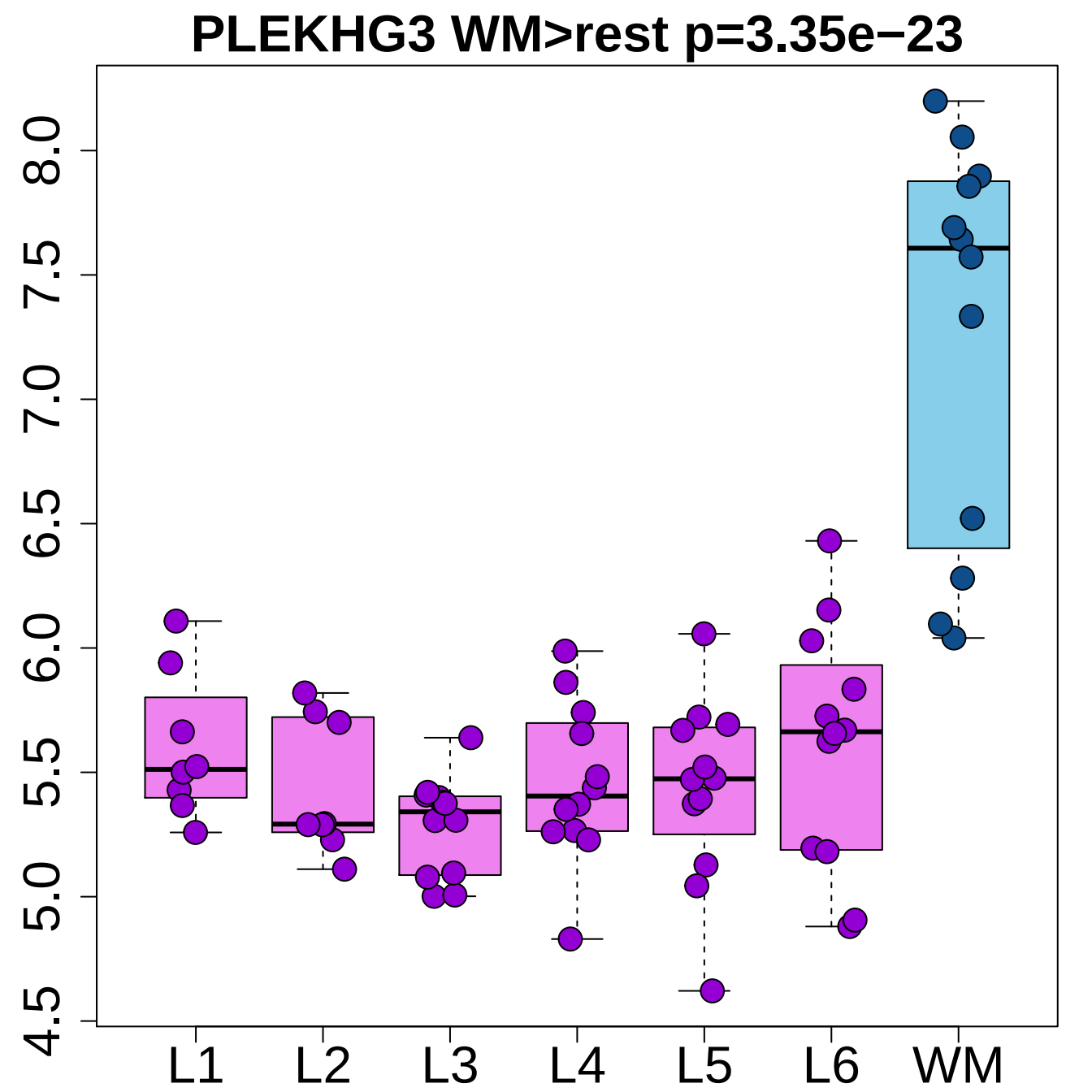

ANP32B WM>rest p=1.80e−24
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

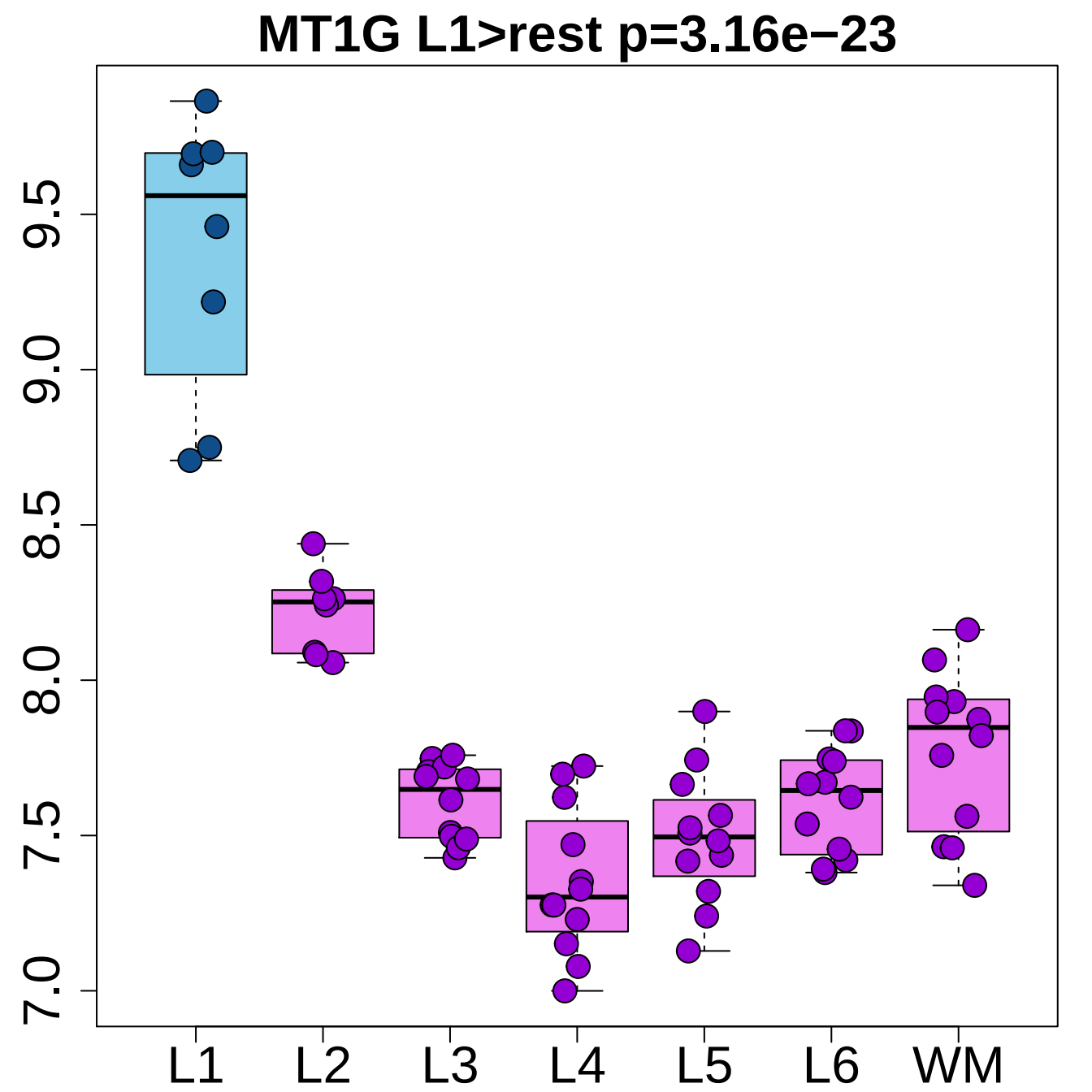

JAM3 WM>rest p=4.51e−24
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

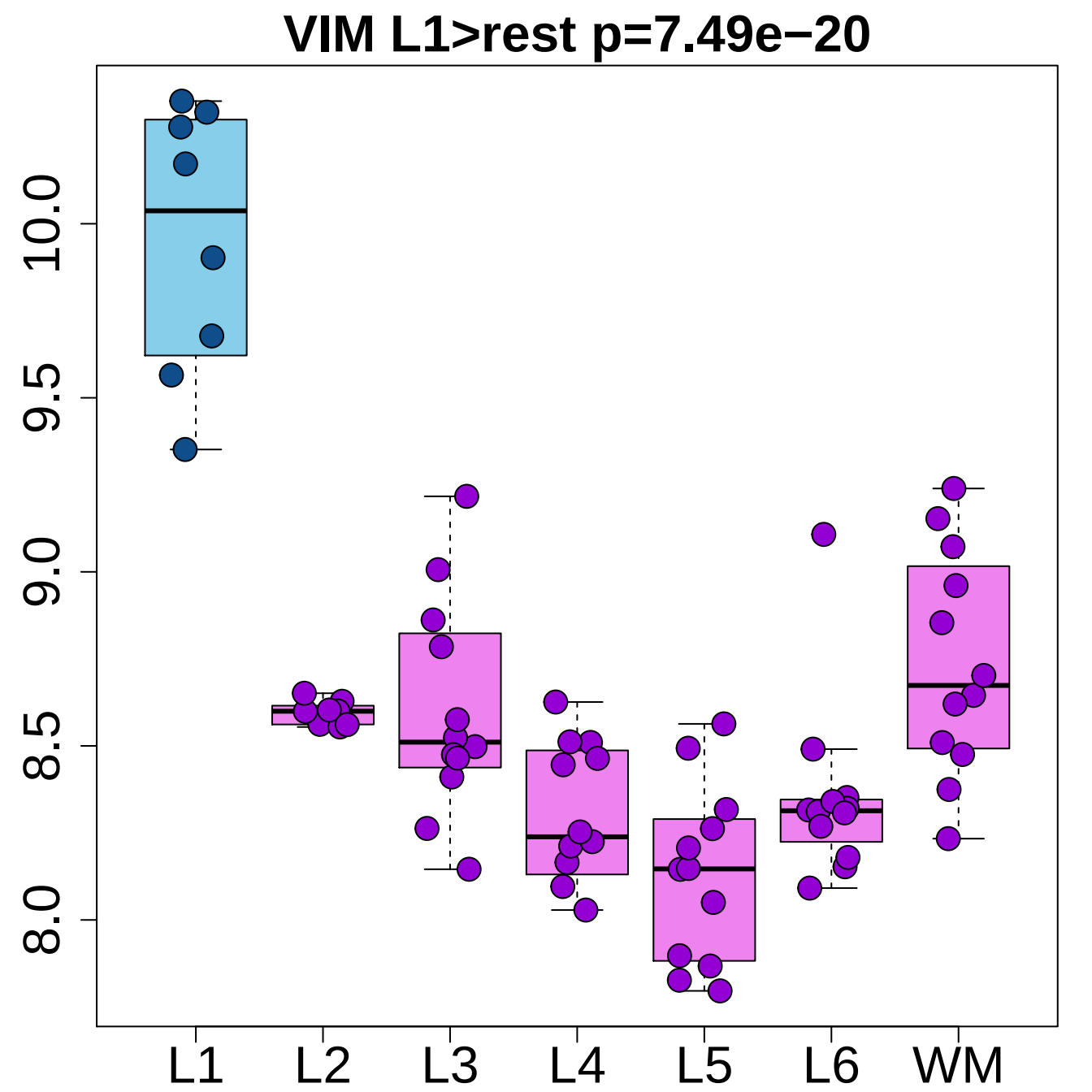

PHLDB1 WM>rest p=5.62e−24
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

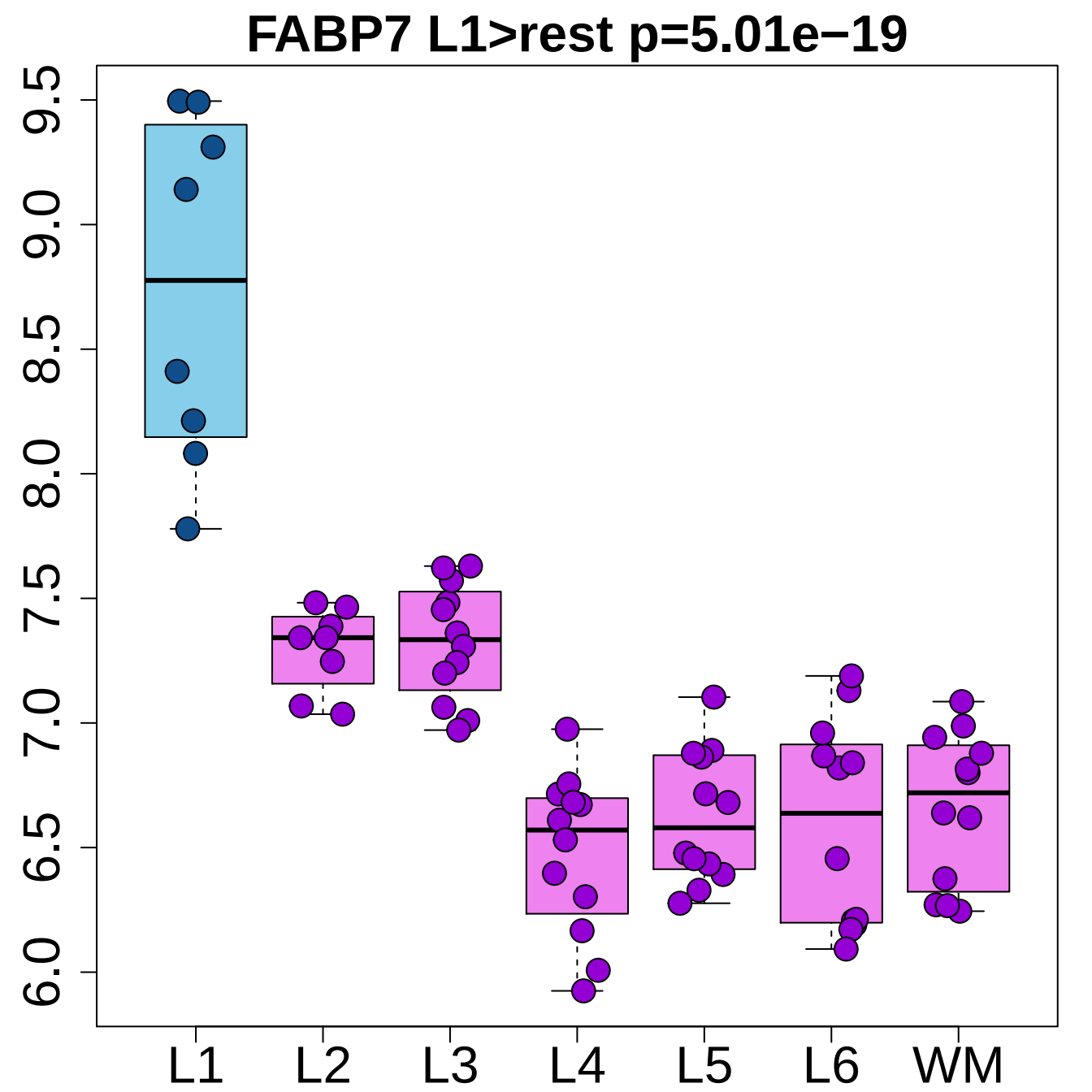

PMP22 WM>rest p=5.99e−24
10
9
8
7
L1
L2
L3
L4
L5
L6
WM

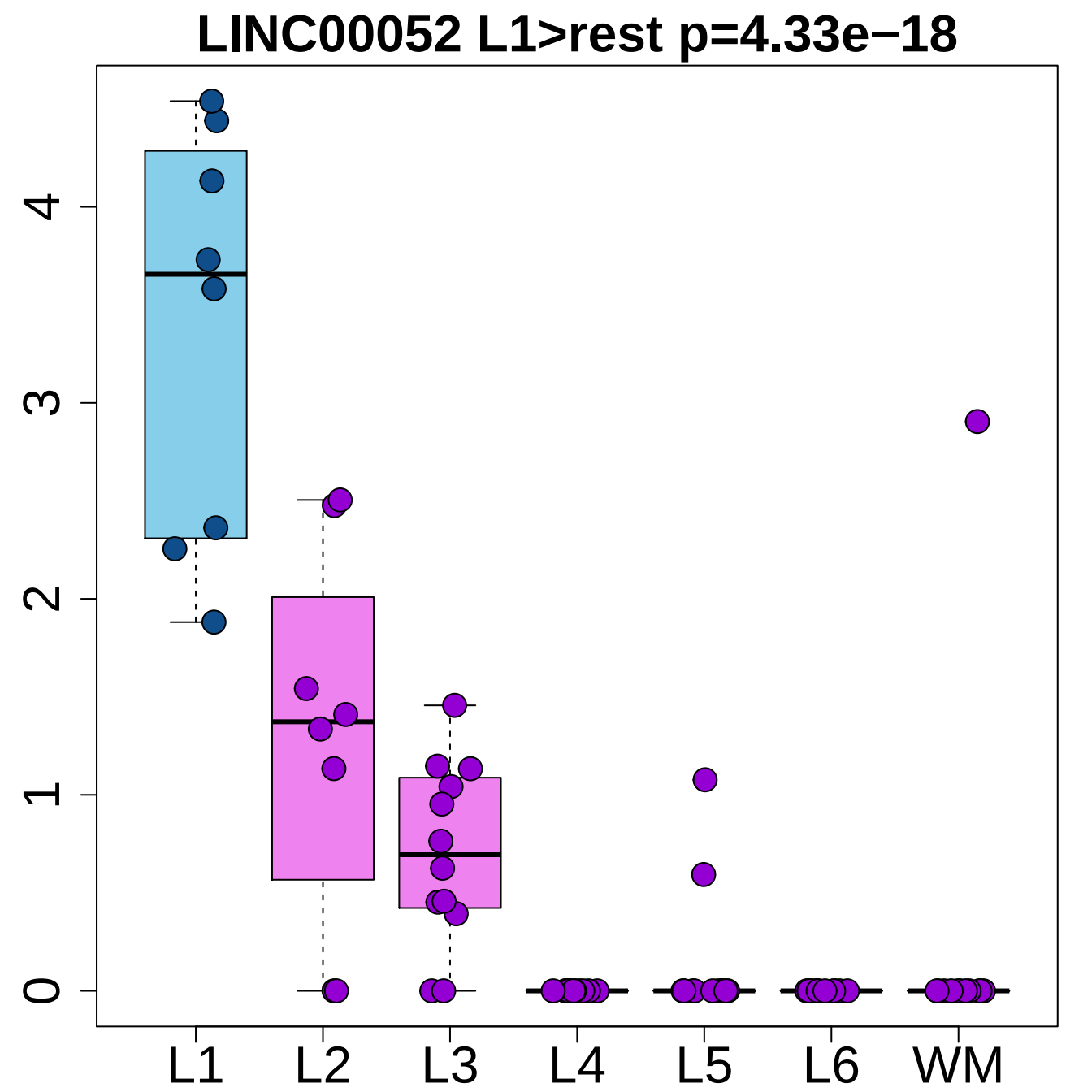

MTUS1 WM>rest p=2.73e−23
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

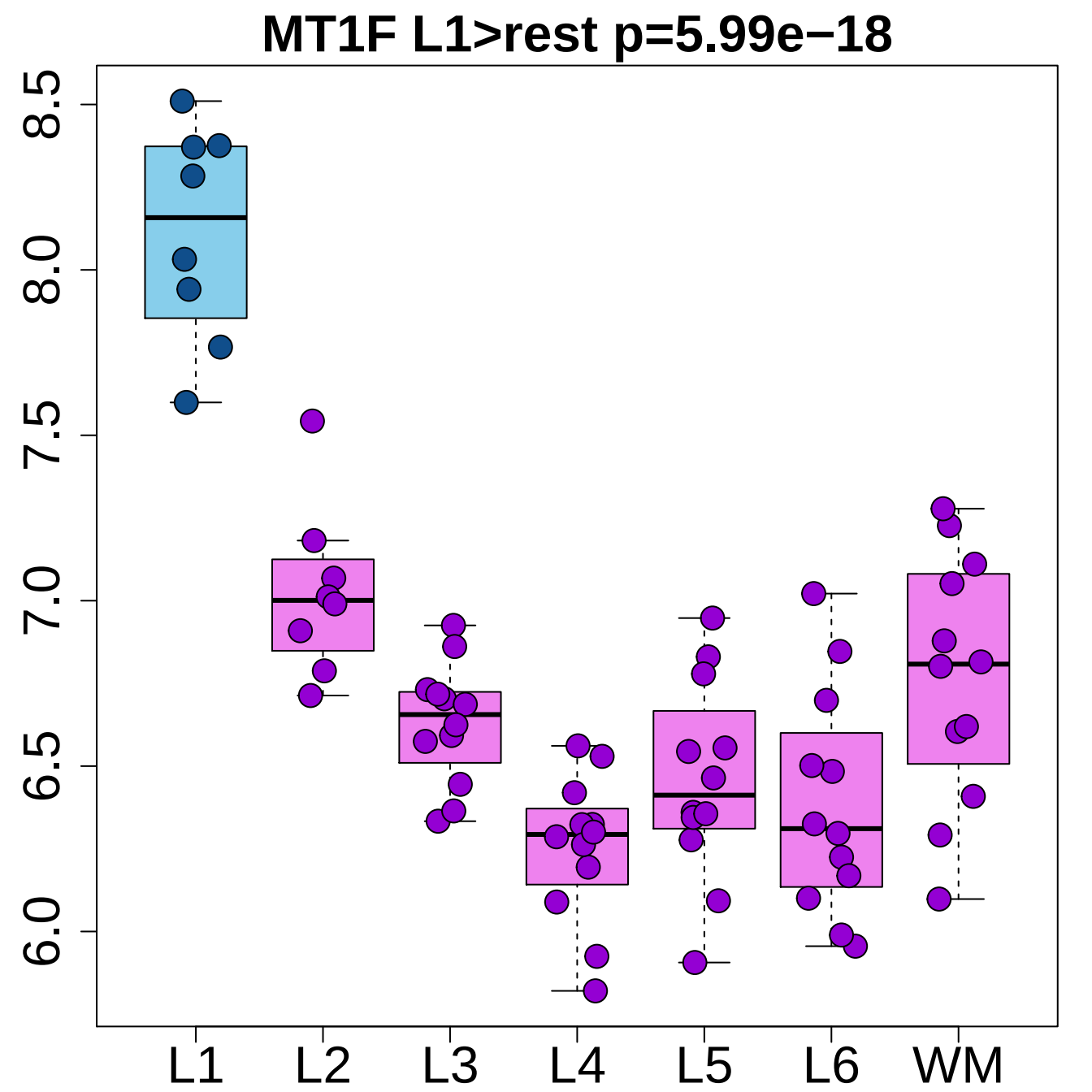

PLEKHG3 WM>rest p=3.35e−23
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM

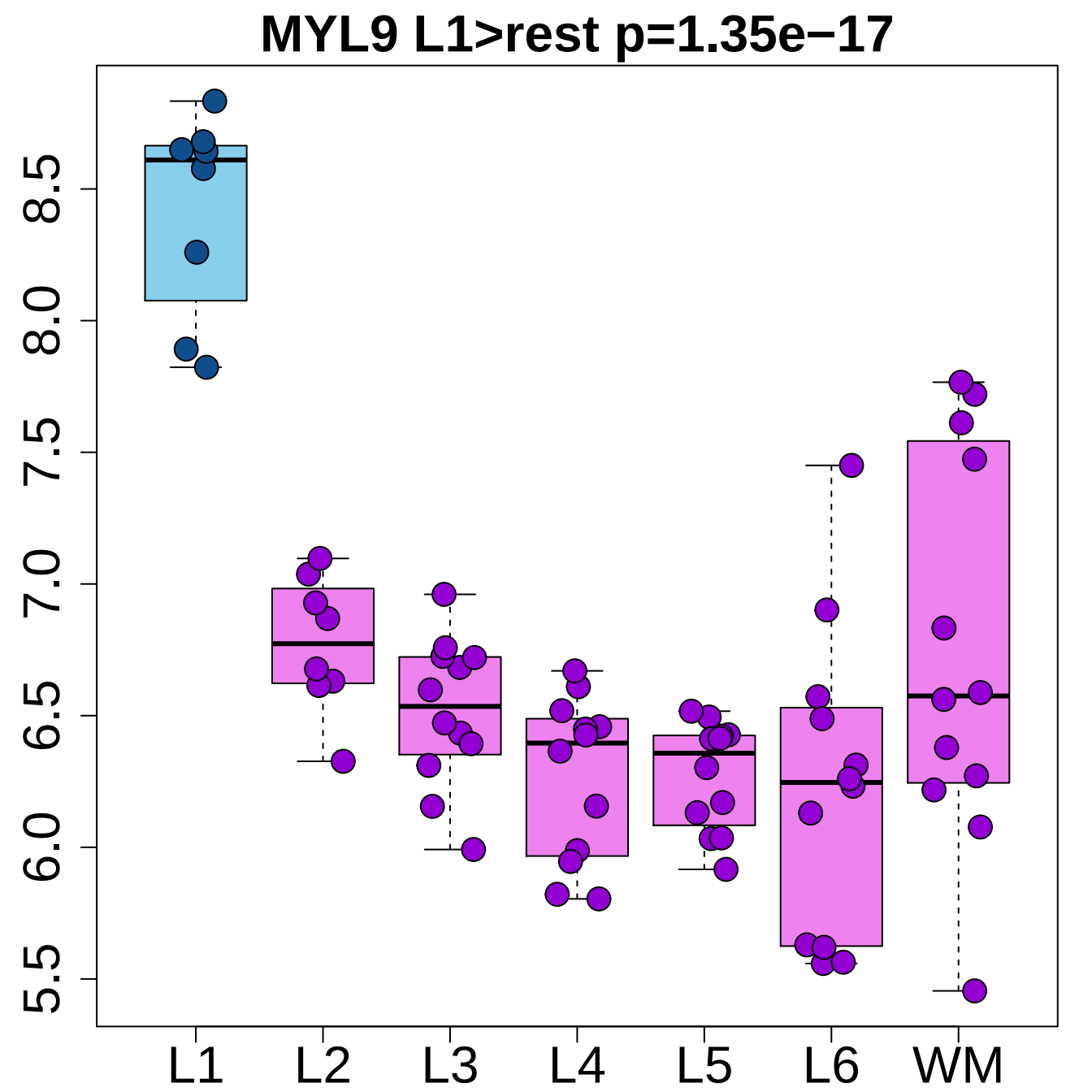

MT1G L1>rest p=3.16e−23
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

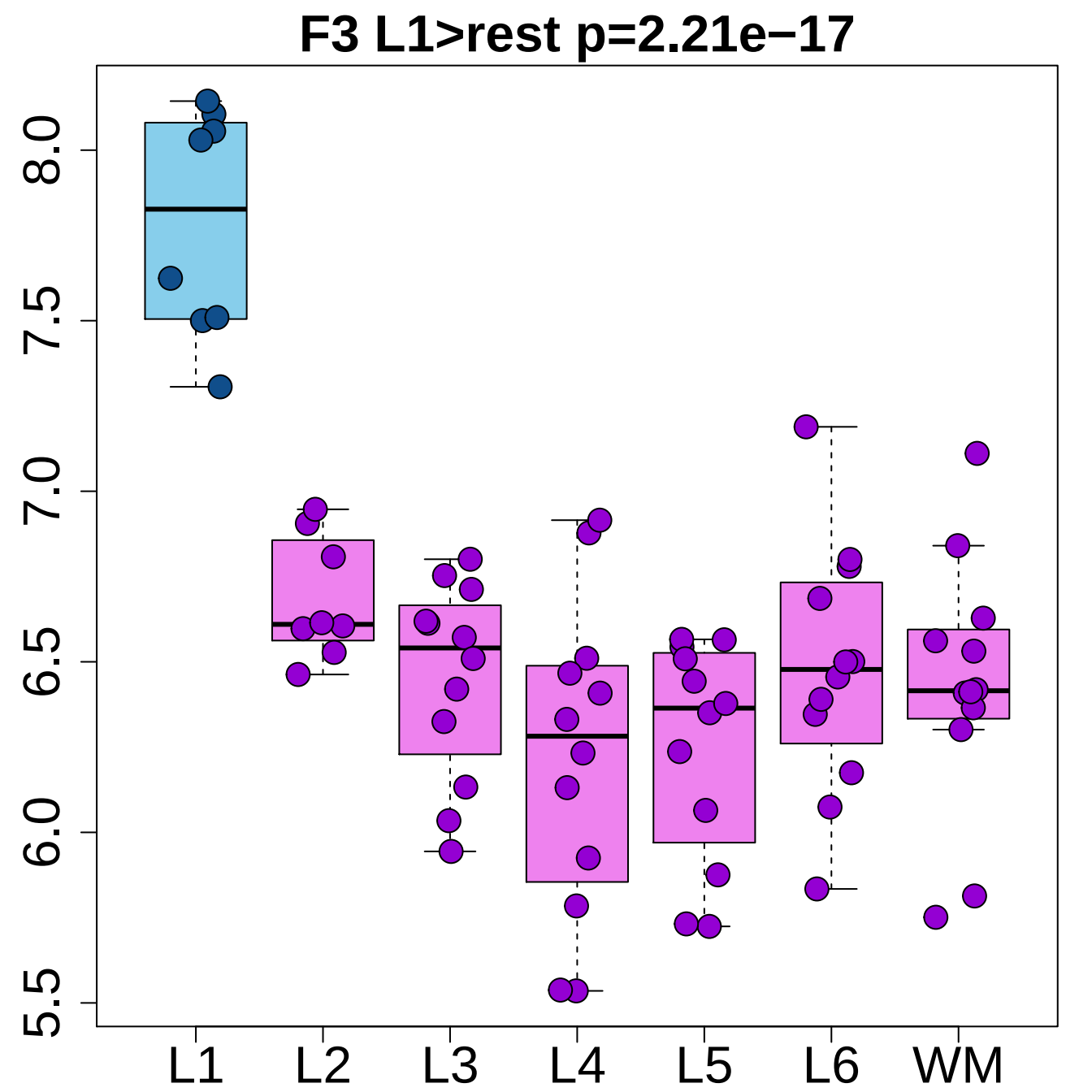

VIM L1>rest p=7.49e−20
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

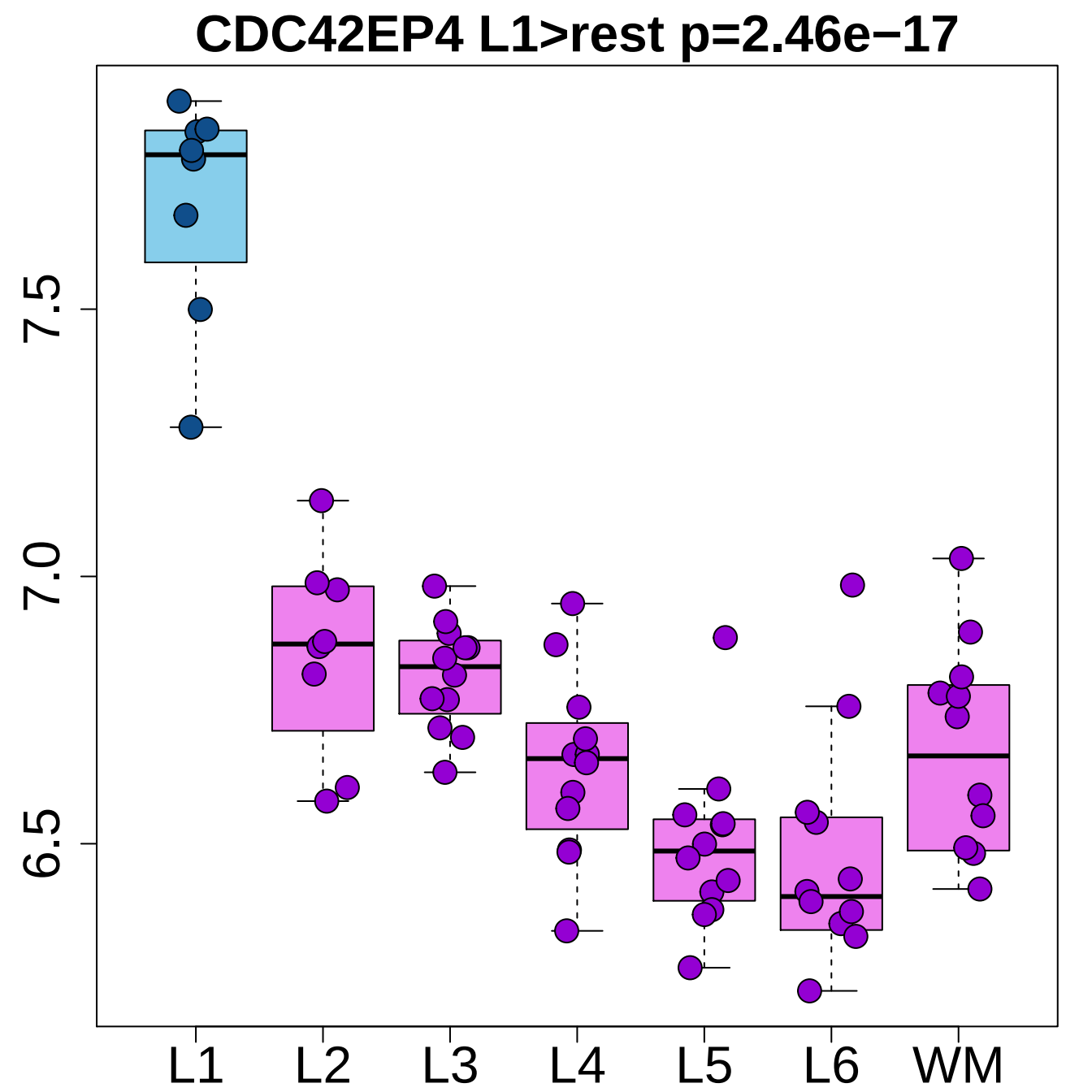

FABP7 L1>rest p=5.01e−19
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

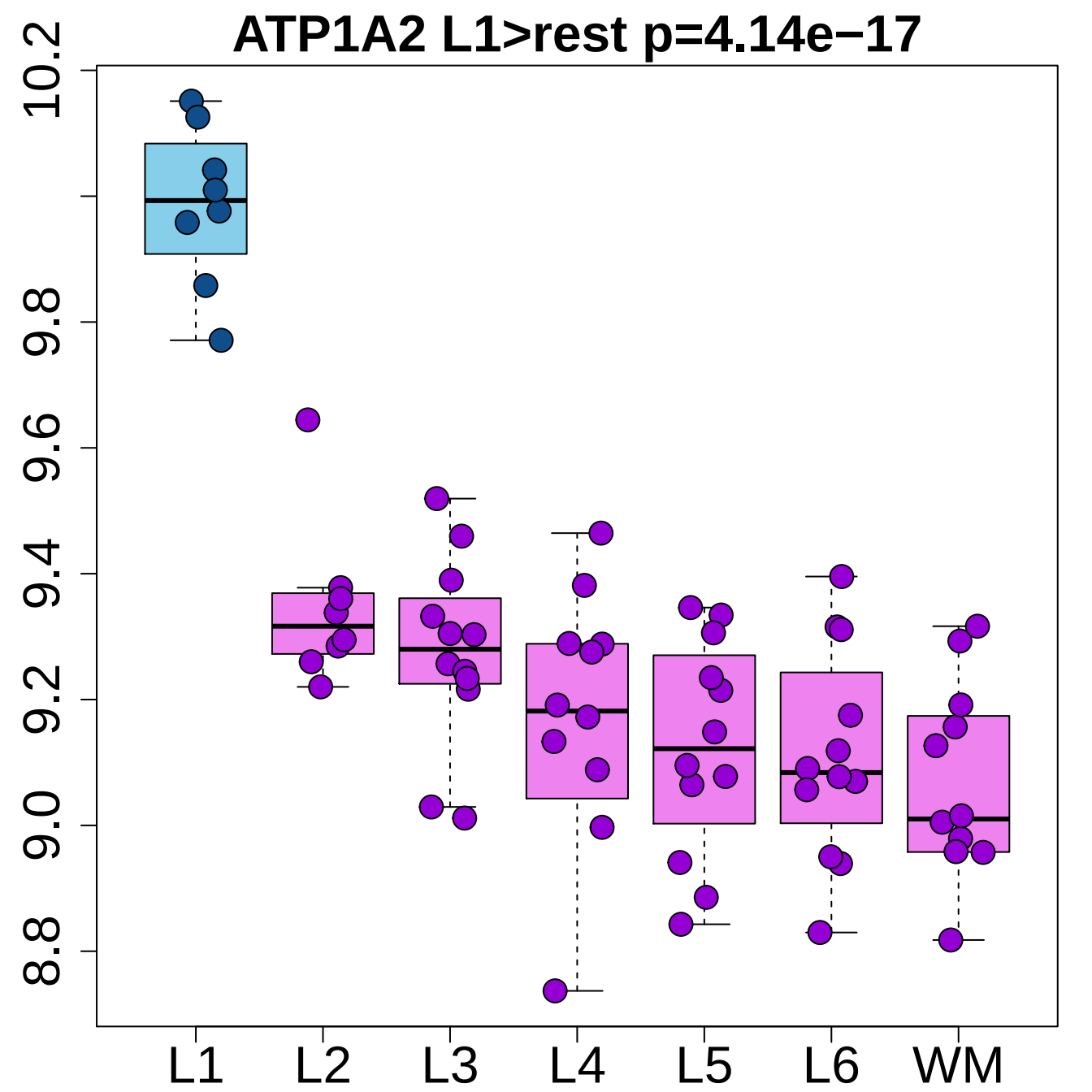

LINC00052 L1>rest p=4.33e−18
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM

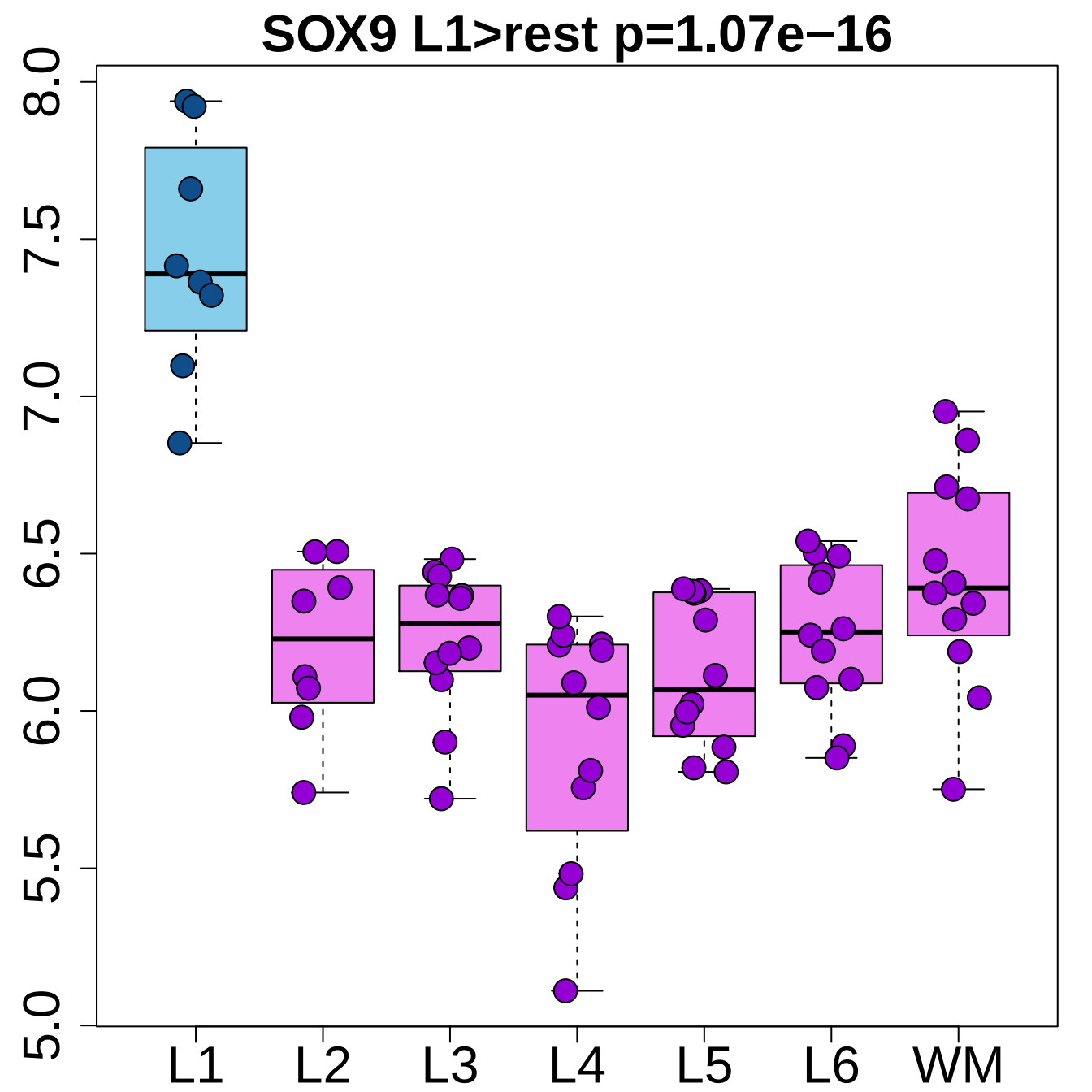

MT1F L1>rest p=5.99e−18
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

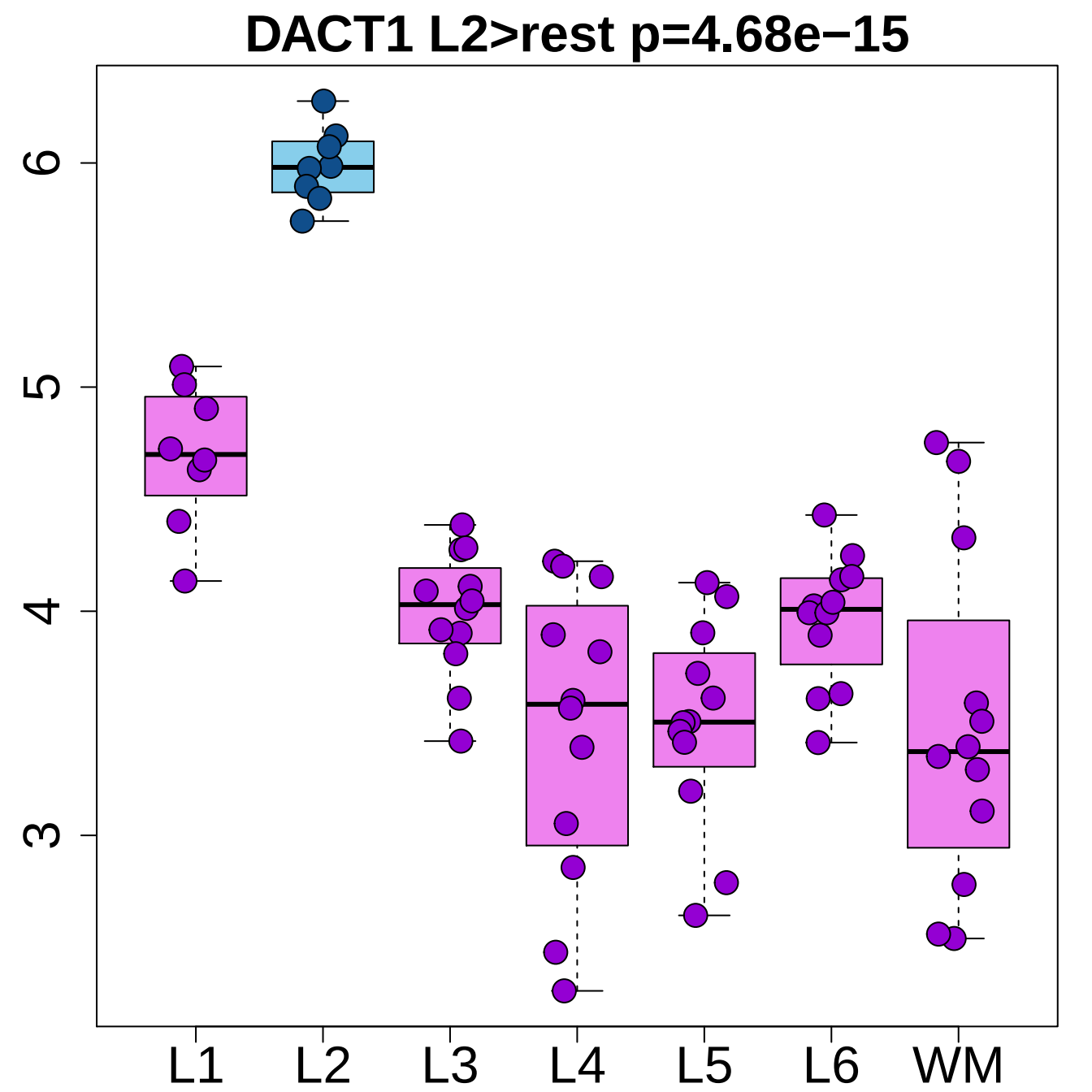

MYL9 L1>rest p=1.35e−17
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

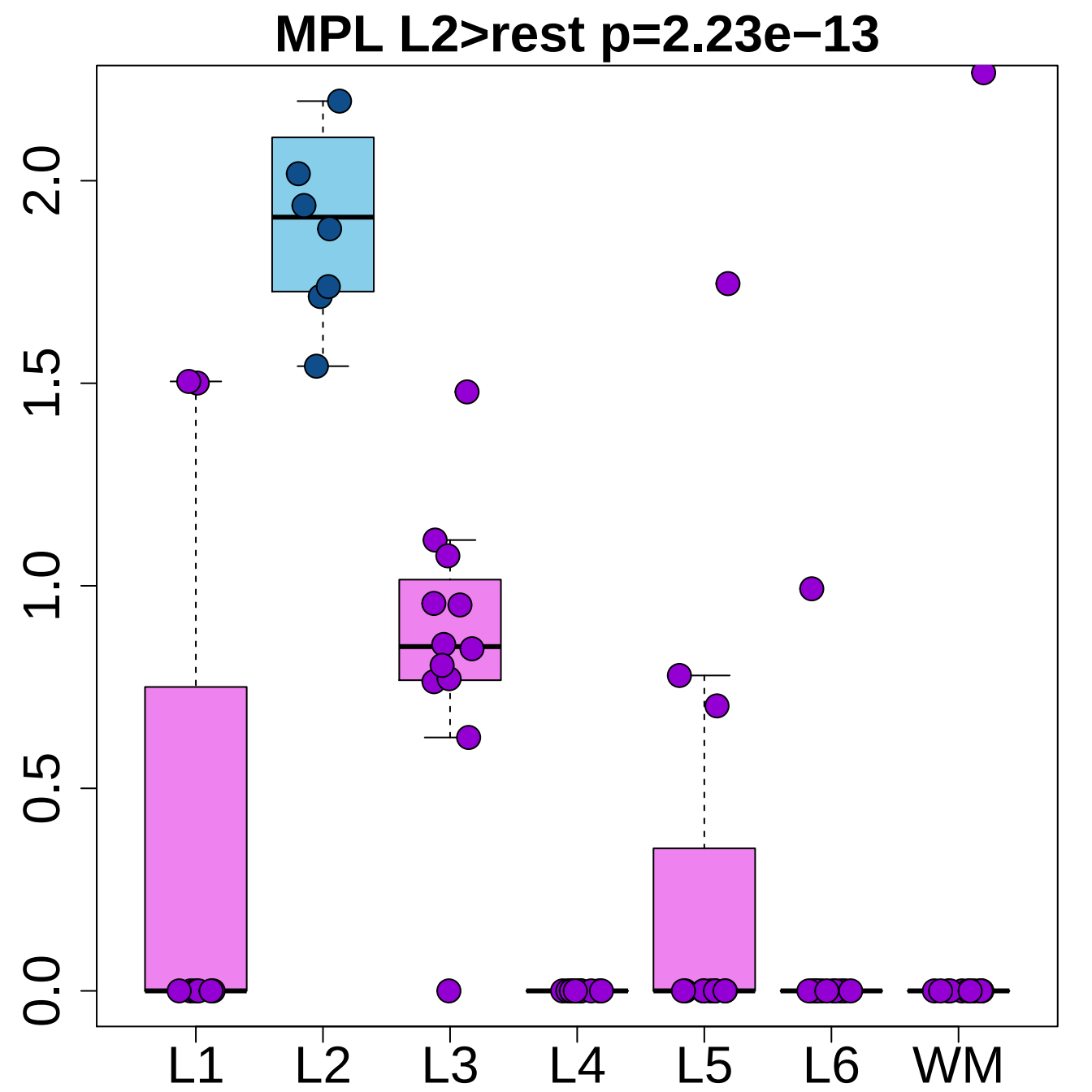

F3 L1>rest p=2.21e−17
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

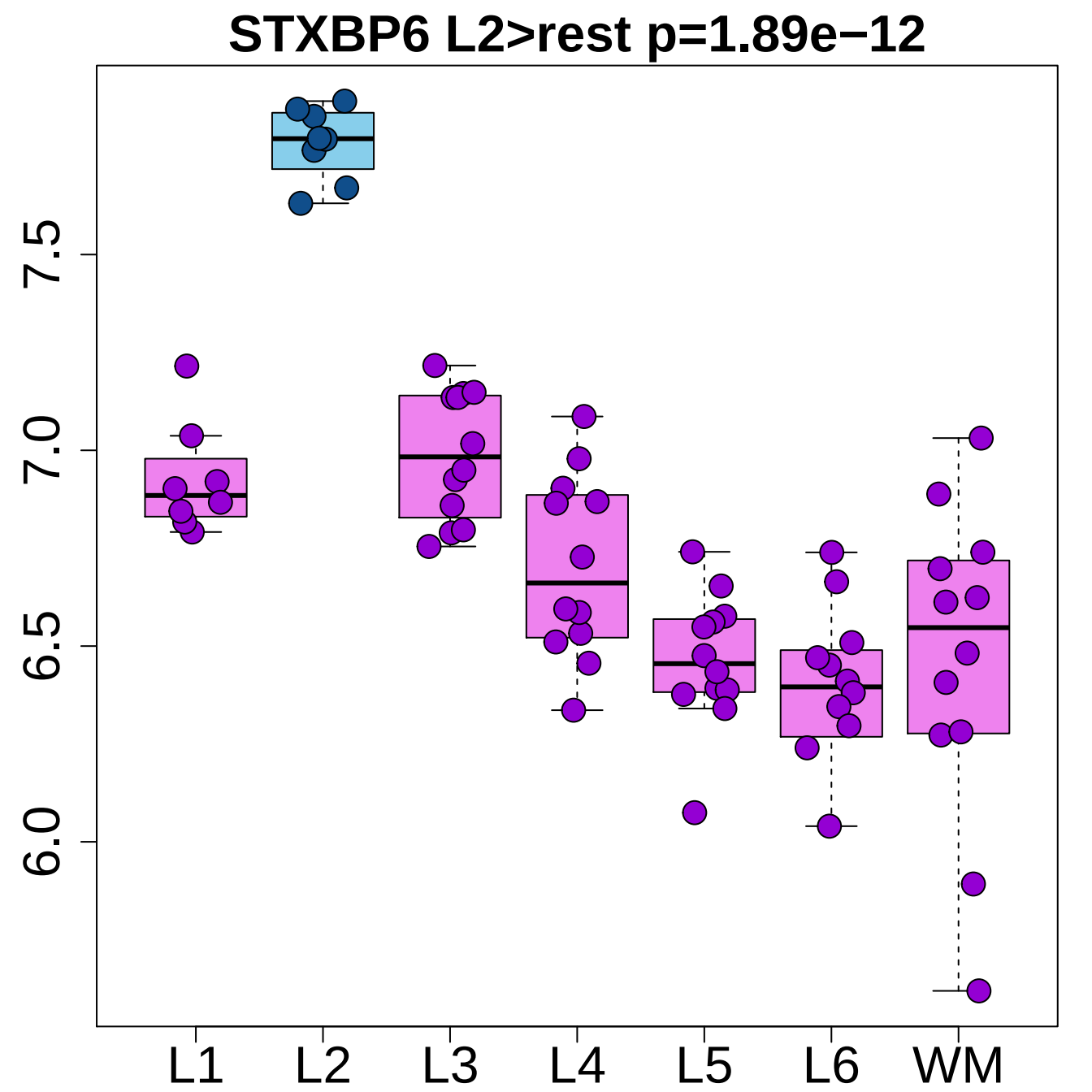

CDC42EP4 L1>rest p=2.46e−17
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

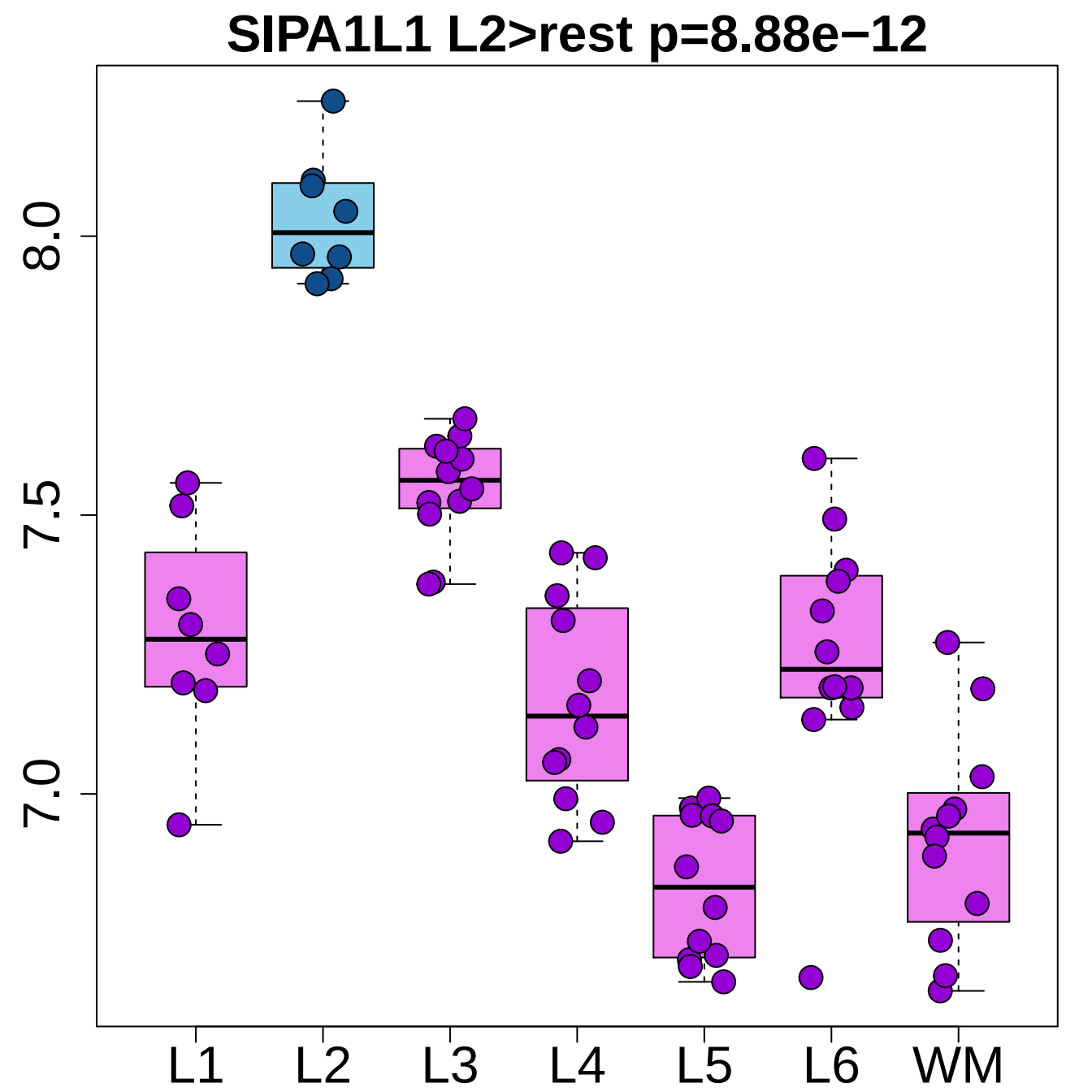

ATP1A2 L1>rest p=4.14e−17
10.2
9.8
9.6
9.4
9.2
9.0
8.8
L1
L2
L3
L4
L5
L6
WM

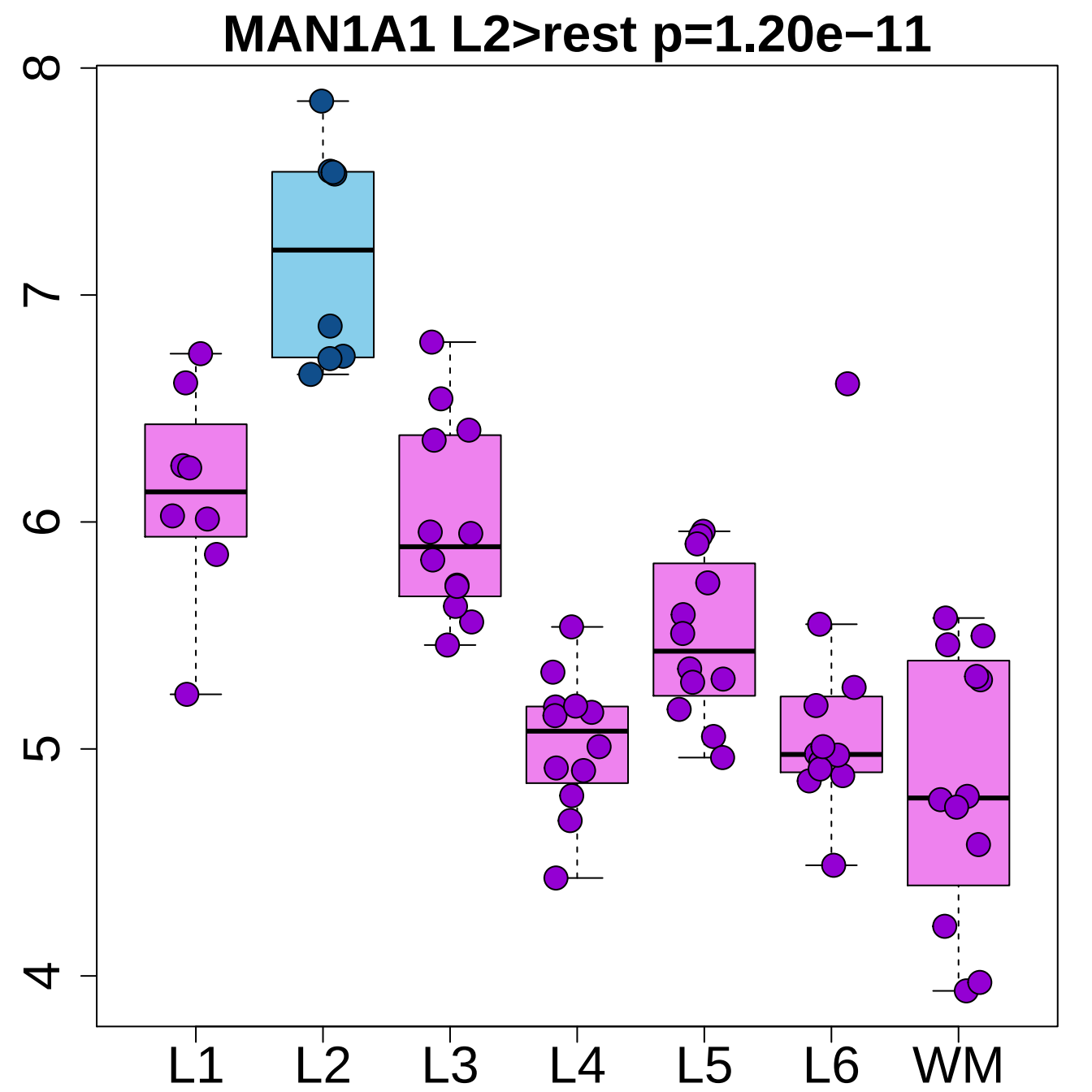

SOX9 L1>rest p=1.07e−16
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

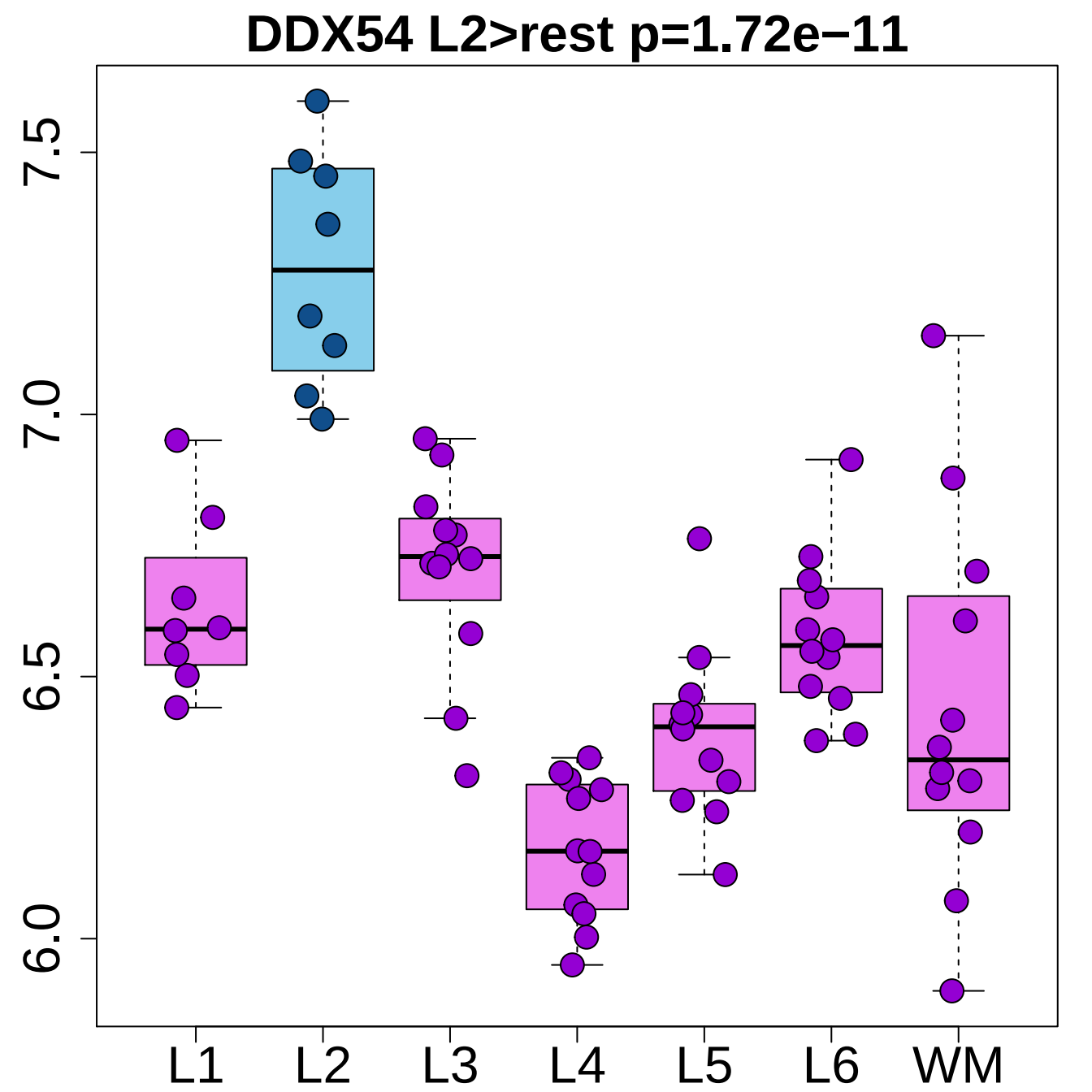

DACT1 L2>rest p=4.68e−15
6
5
4
3
L1
L2
L3
L4
L5
L6
WM

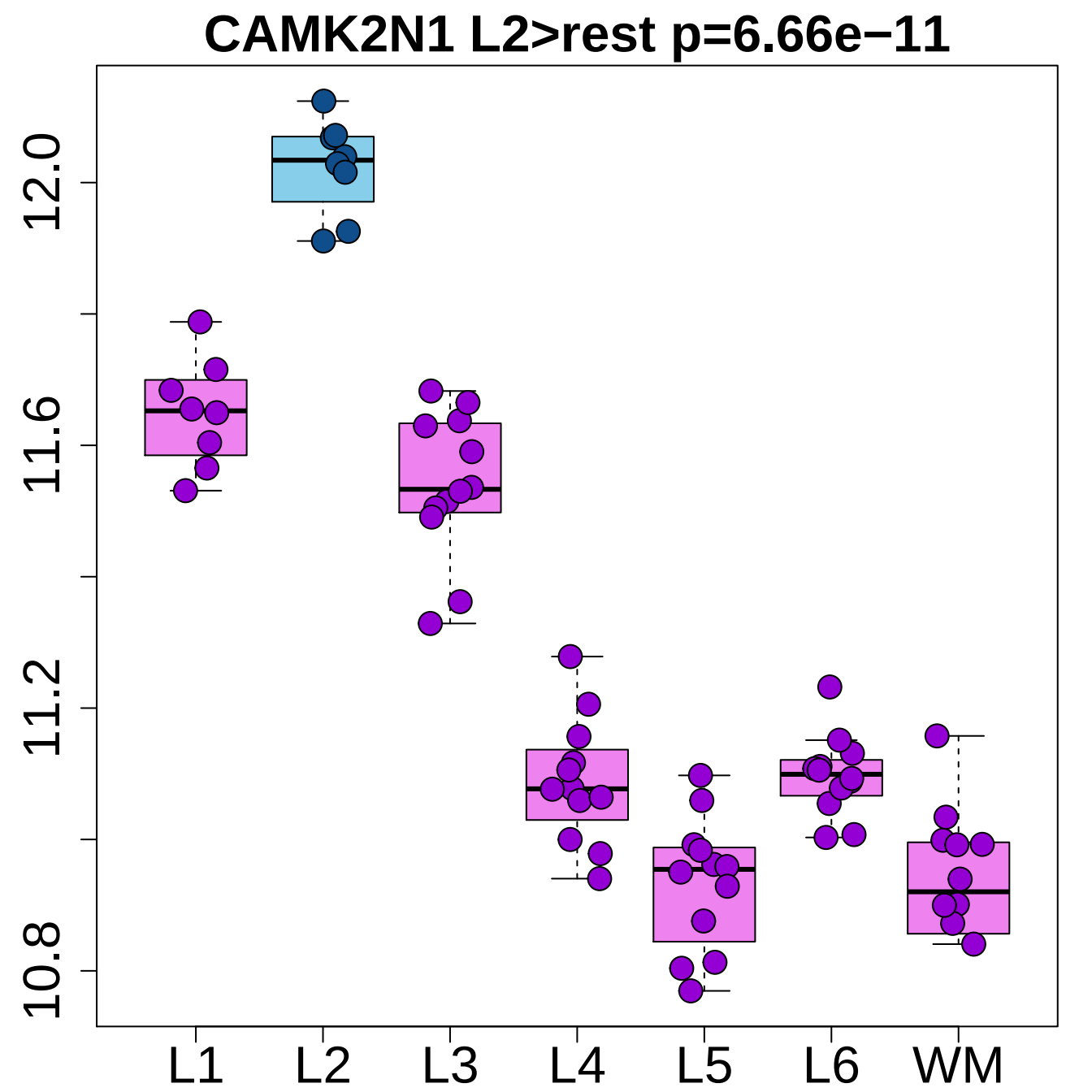

MPL L2>rest p=2.23e−13
0.0
0.5
1.0
1.5
2.0
L1
L2
L3
L4
L5
L6
WM

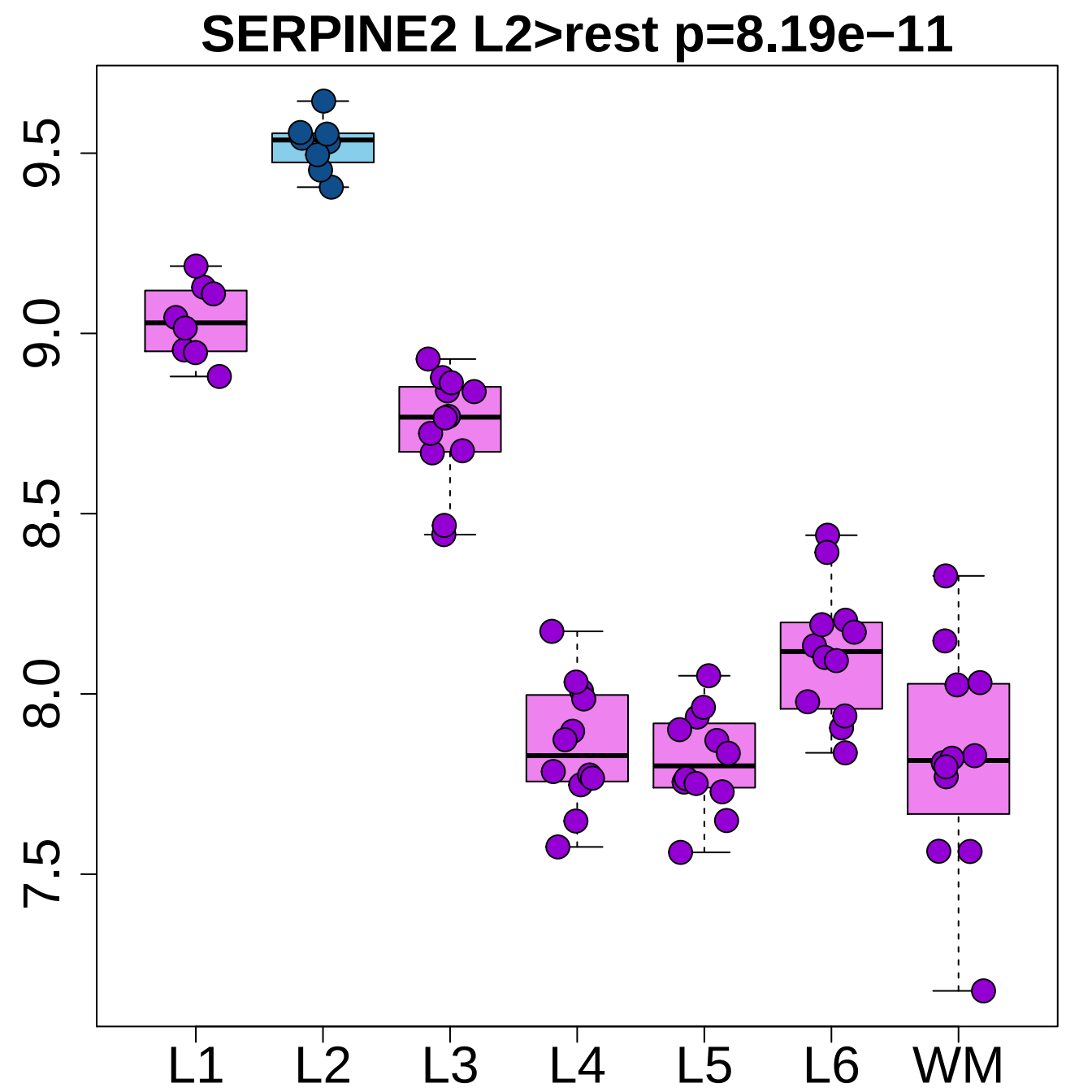

STXBP6 L2>rest p=1.89e−12
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

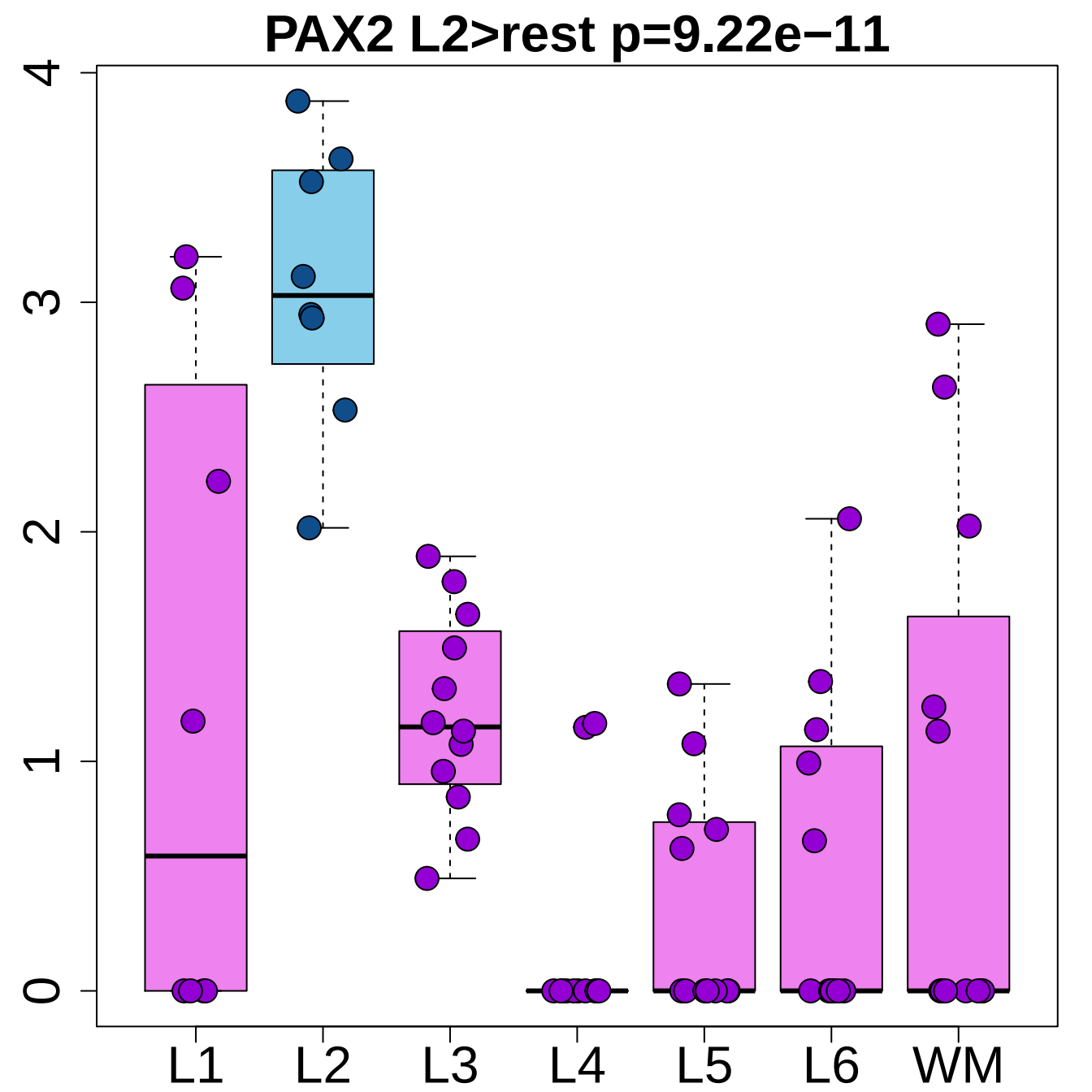

SIPA1L1 L2>rest p=8.88e−12
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

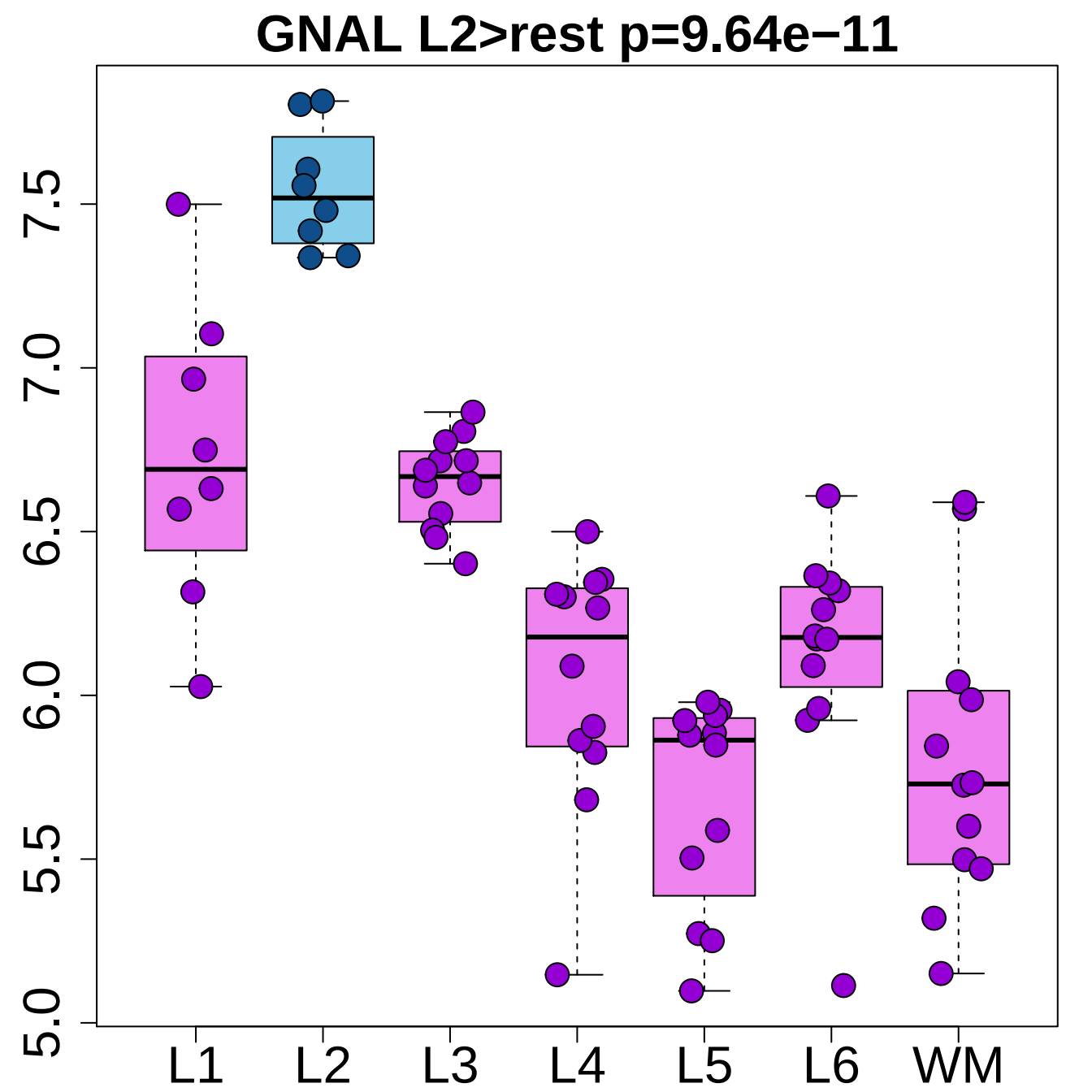

MAN1A1 L2>rest p=1.20e−11
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

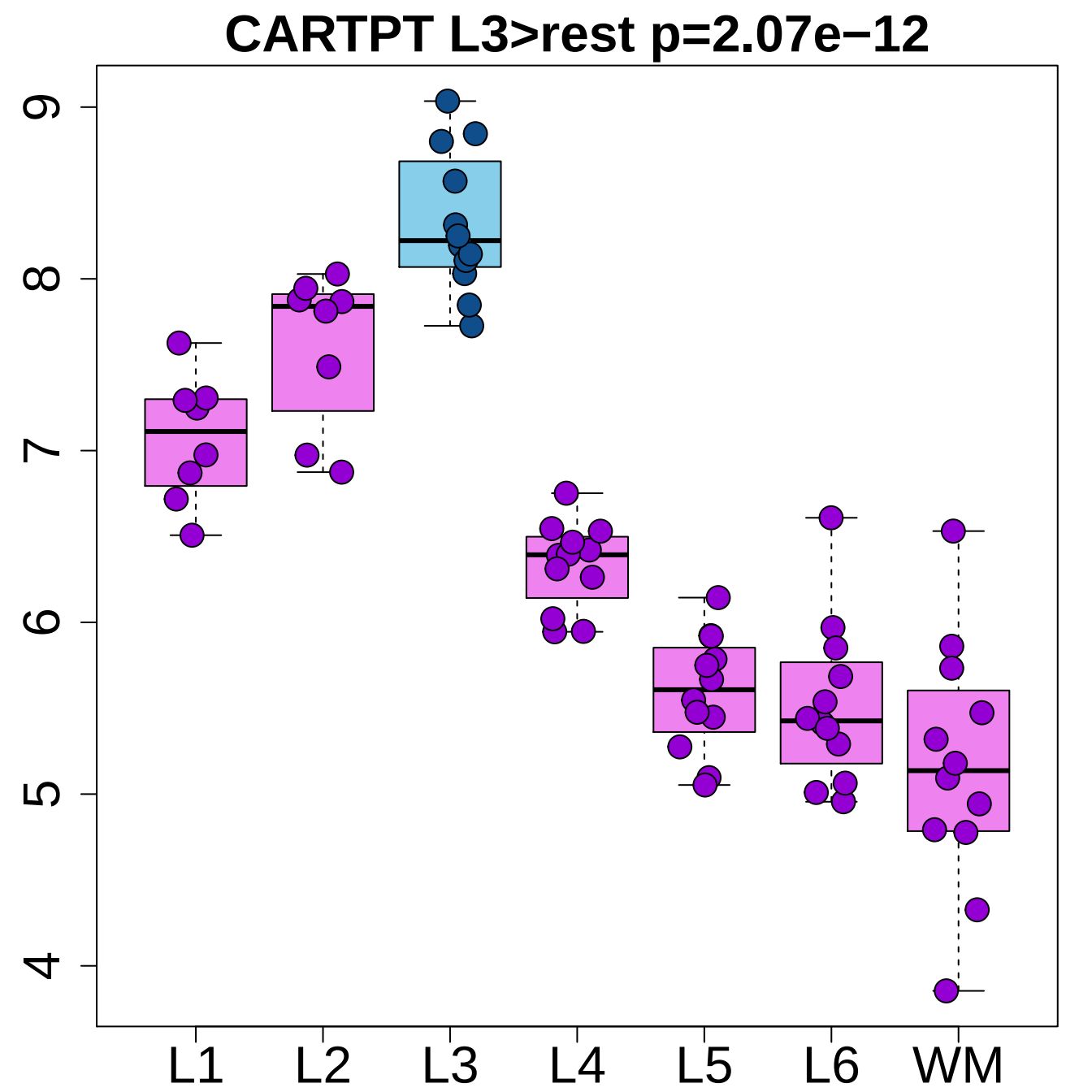

DDX54 L2>rest p=1.72e−11
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

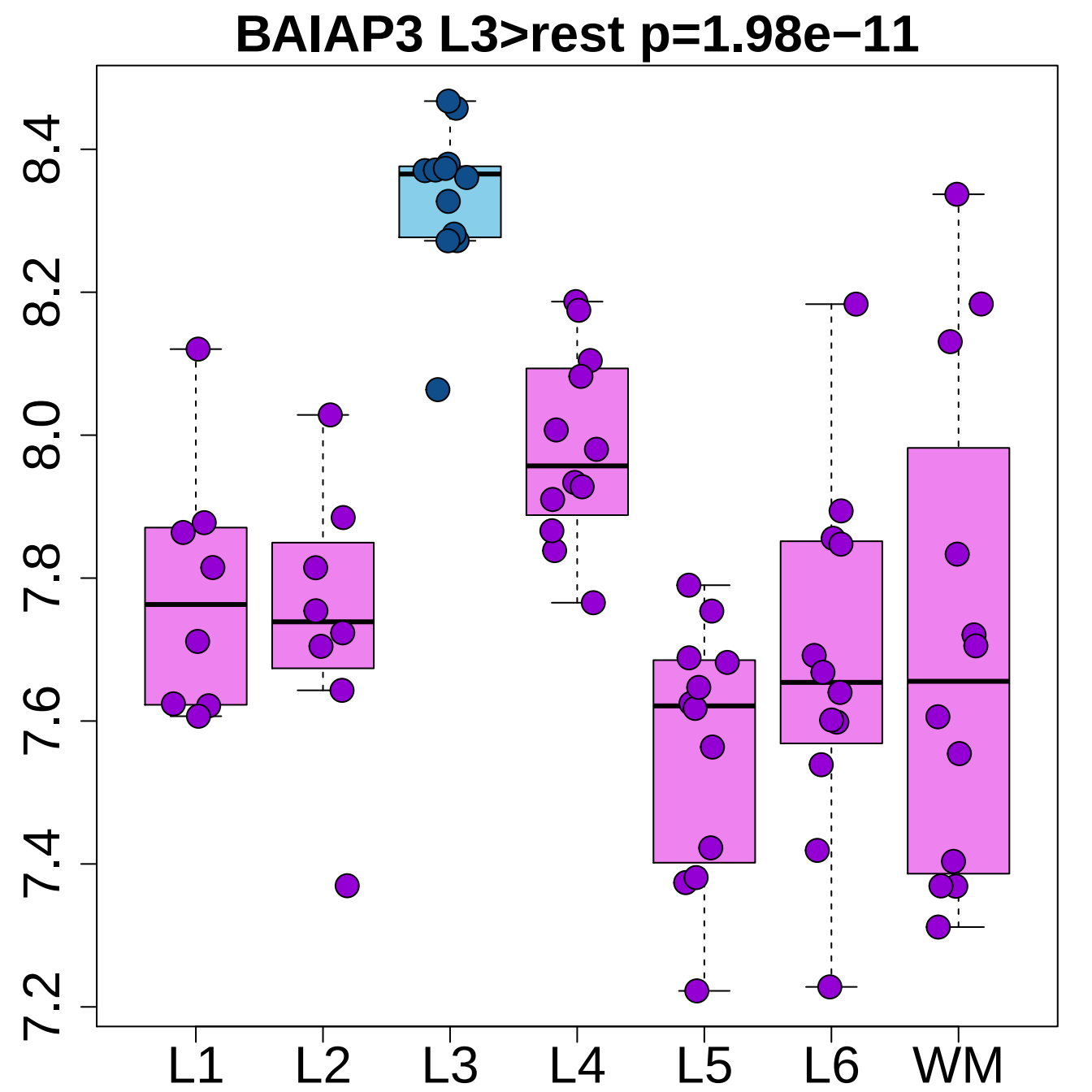

CAMK2N1 L2>rest p=6.66e−11
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM

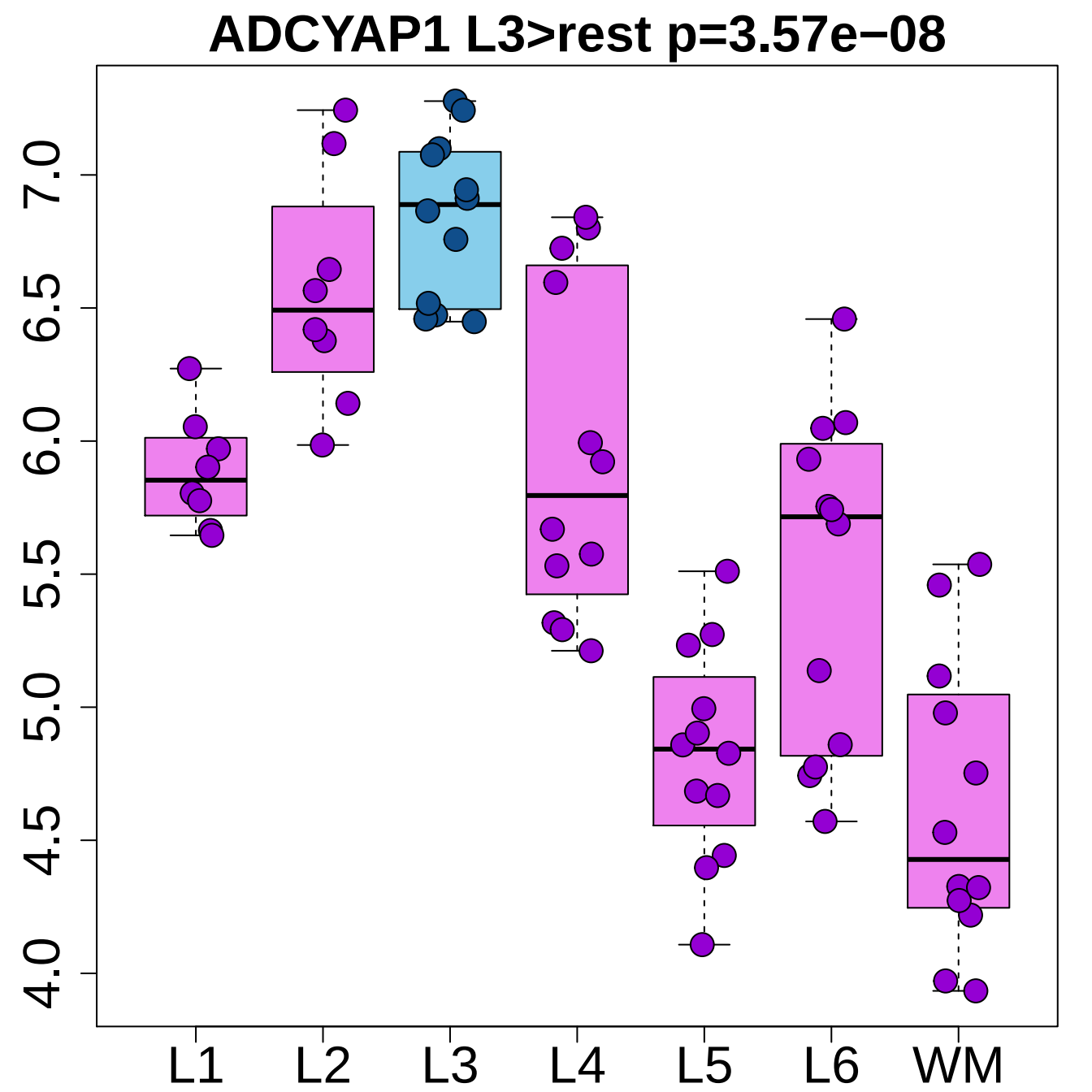

SERPINE2 L2>rest p=8.19e−11
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

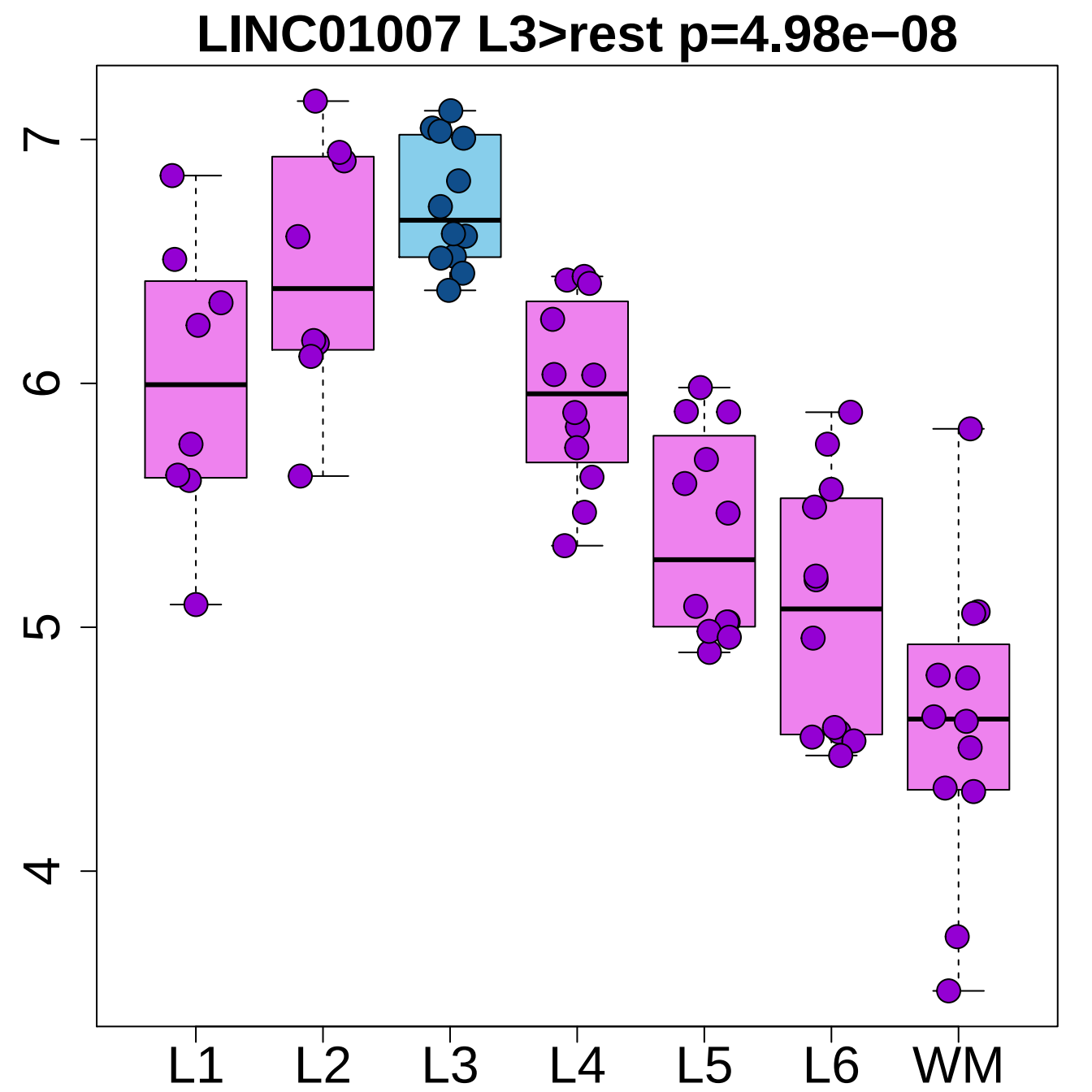

PAX2 L2>rest p=9.22e−11
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM

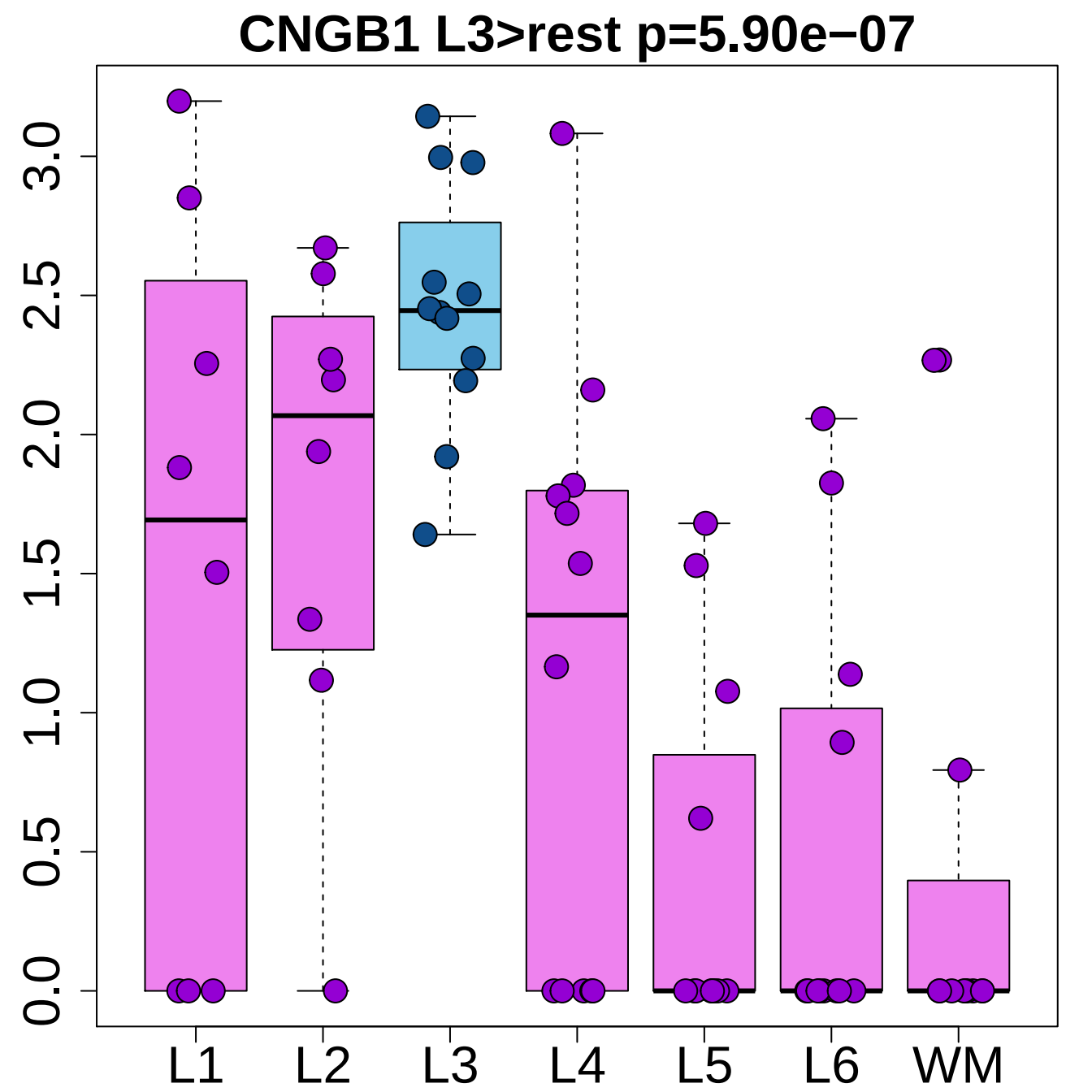

GNAL L2>rest p=9.64e−11
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

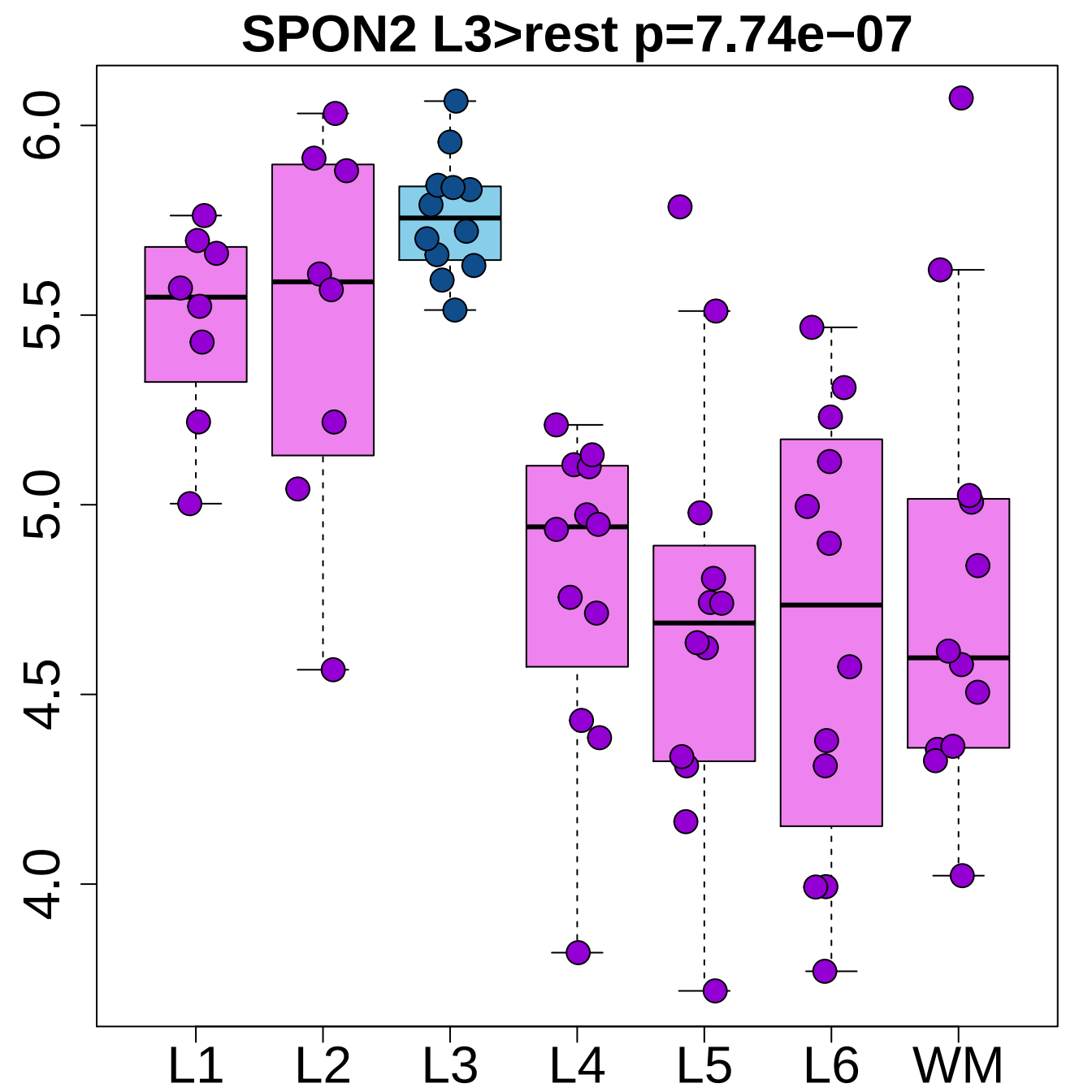

CARTPT L3>rest p=2.07e−12
9
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

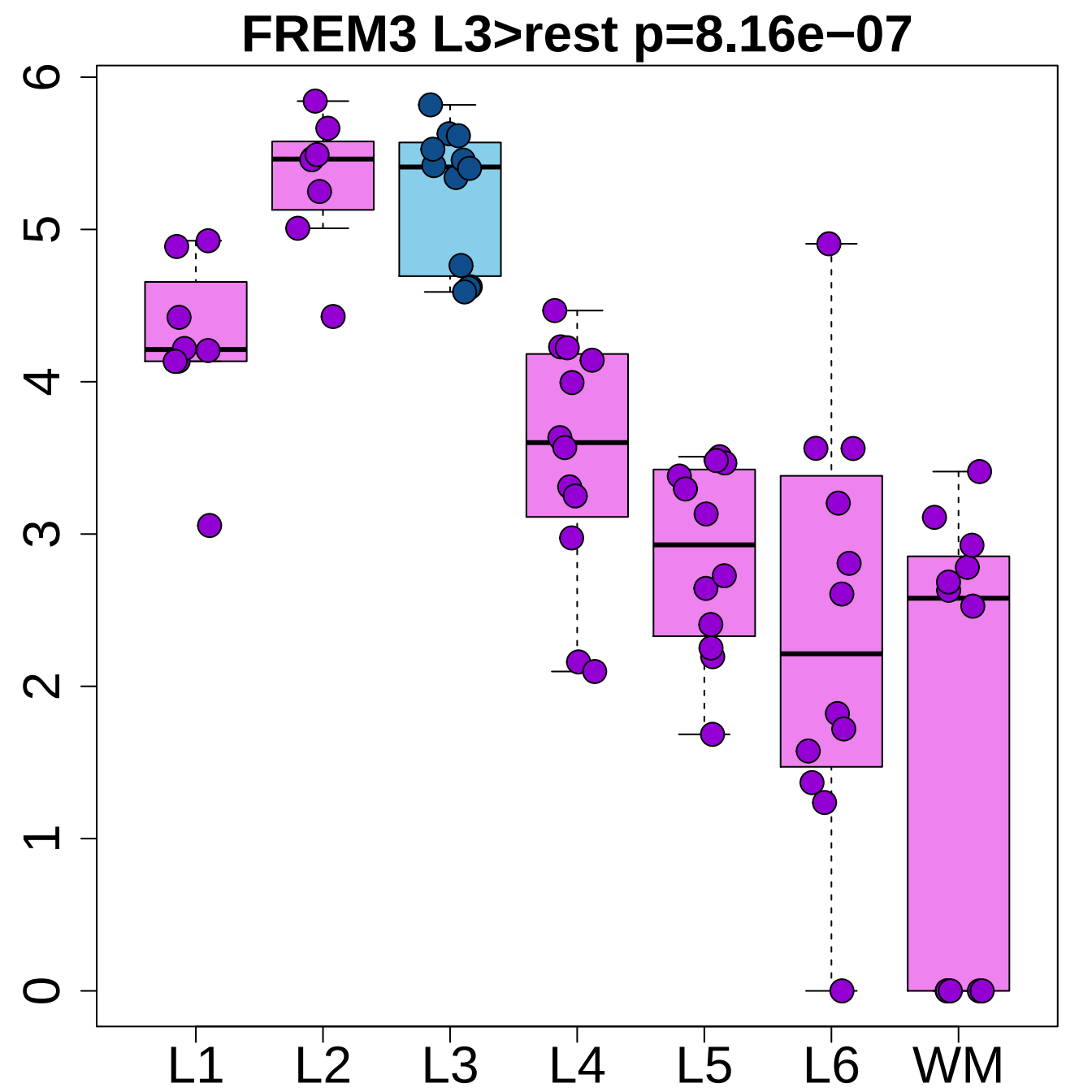

BAIAP3 L3>rest p=1.98e−11
8.4
8.2
8.0
7.8
7.6
7.4
7.2
L1
L2
L3
L4
L5
L6
WM

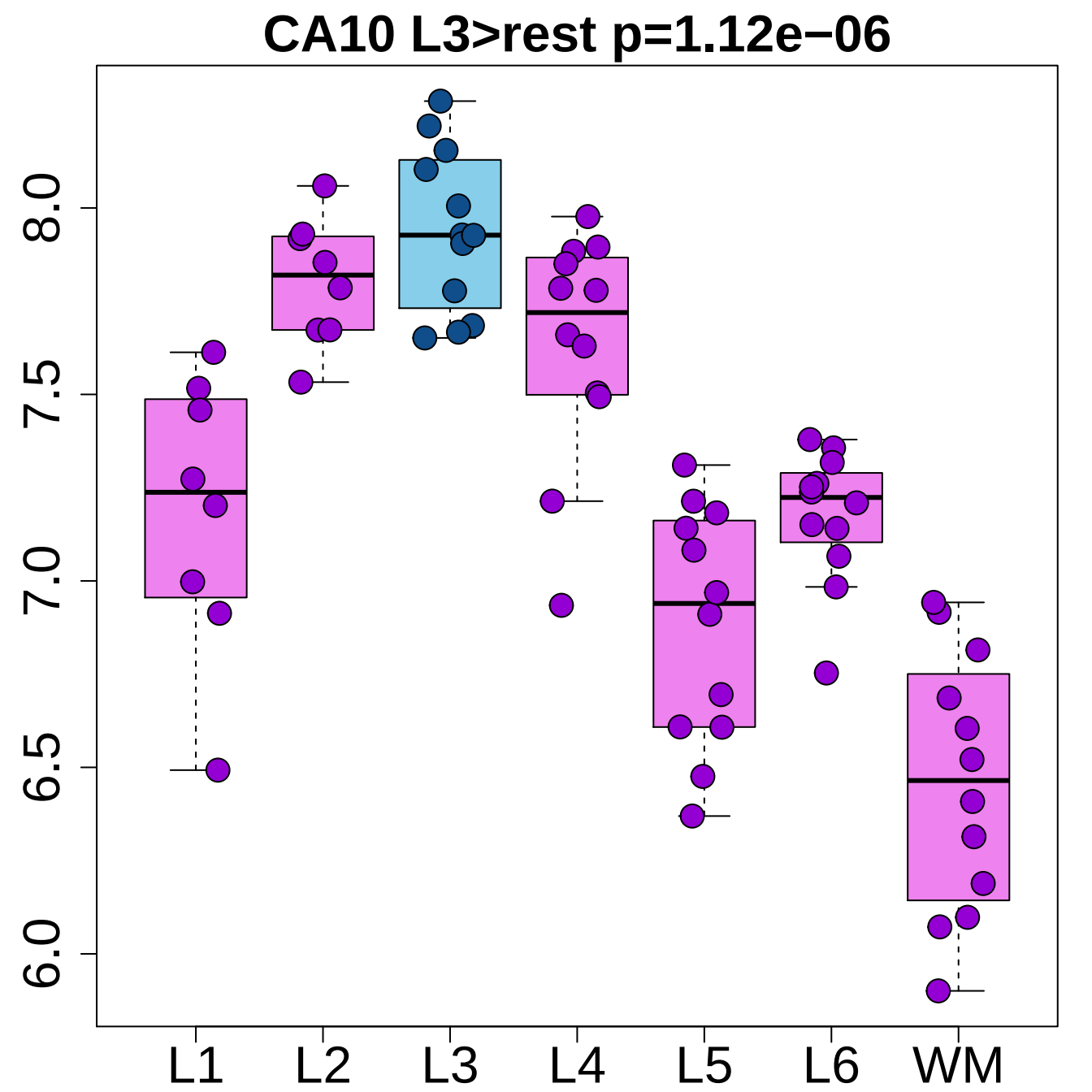

ADCYAP1 L3>rest p=3.57e−08
7.0
6.5
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM

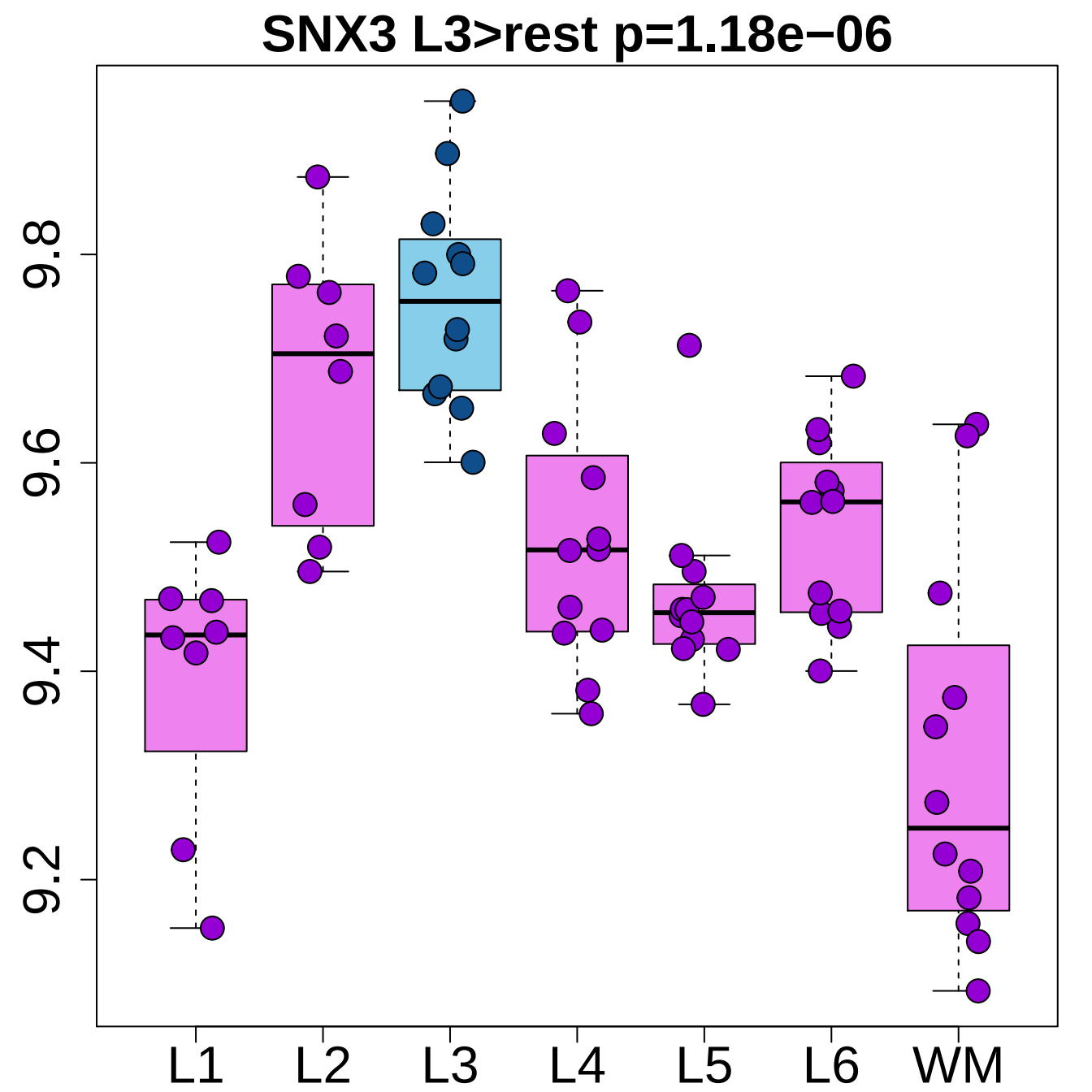

LINC01007 L3>rest p=4.98e−08
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

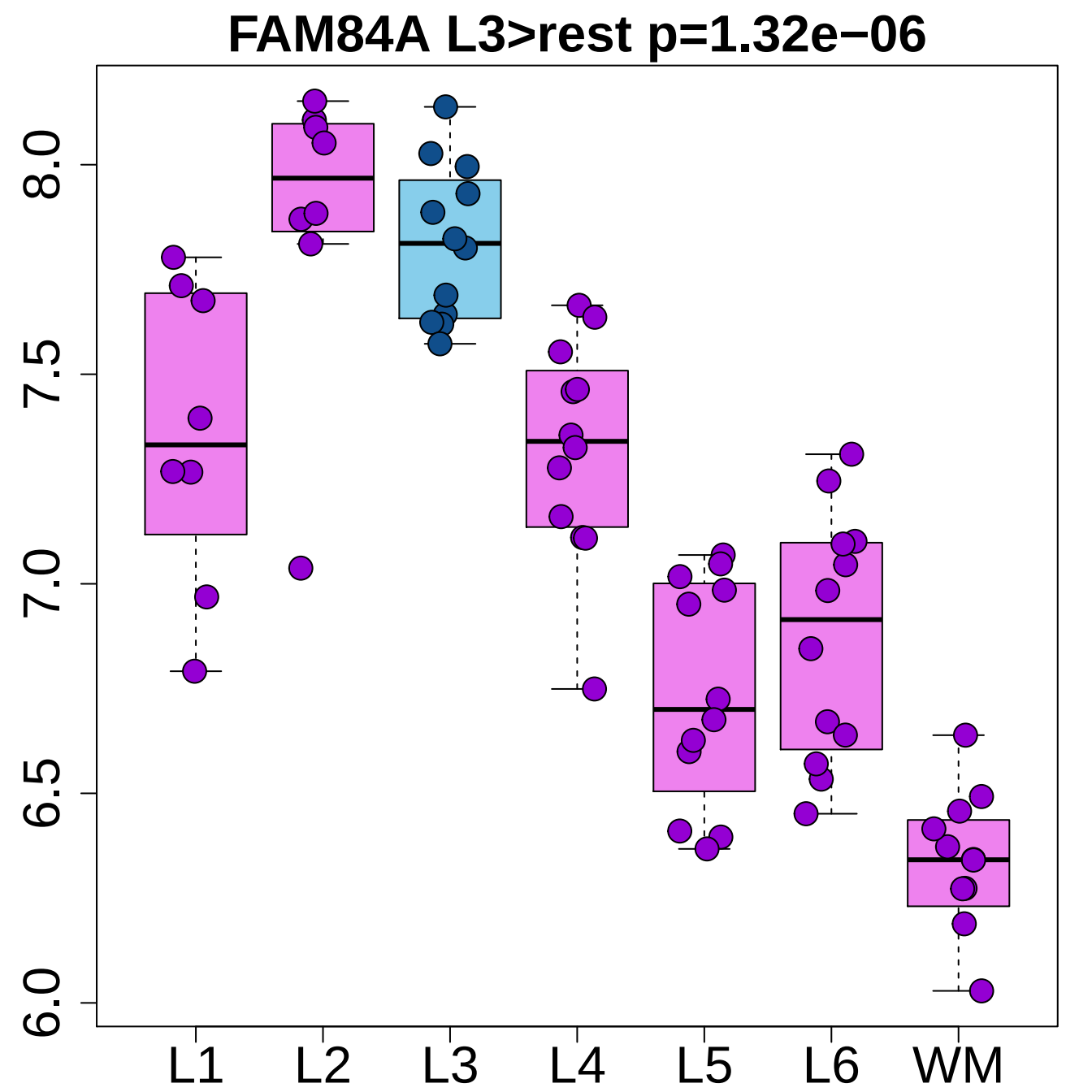

CNGB1 L3>rest p=5.90e−07
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L1
L2
L3
L4
L5
L6
WM


SPON2 L3>rest p=7.74e−07
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM


FREM3 L3>rest p=8.16e−07
0
1
2
3
4
5
6
L1
L2
L3
L4
L5
L6
WM


CA10 L3>rest p=1.12e−06
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


SNX3 L3>rest p=1.18e−06
9.8
9.6
9.4
9.2
L1
L2
L3
L4
L5
L6
WM


FAM84A L3>rest p=1.32e−06
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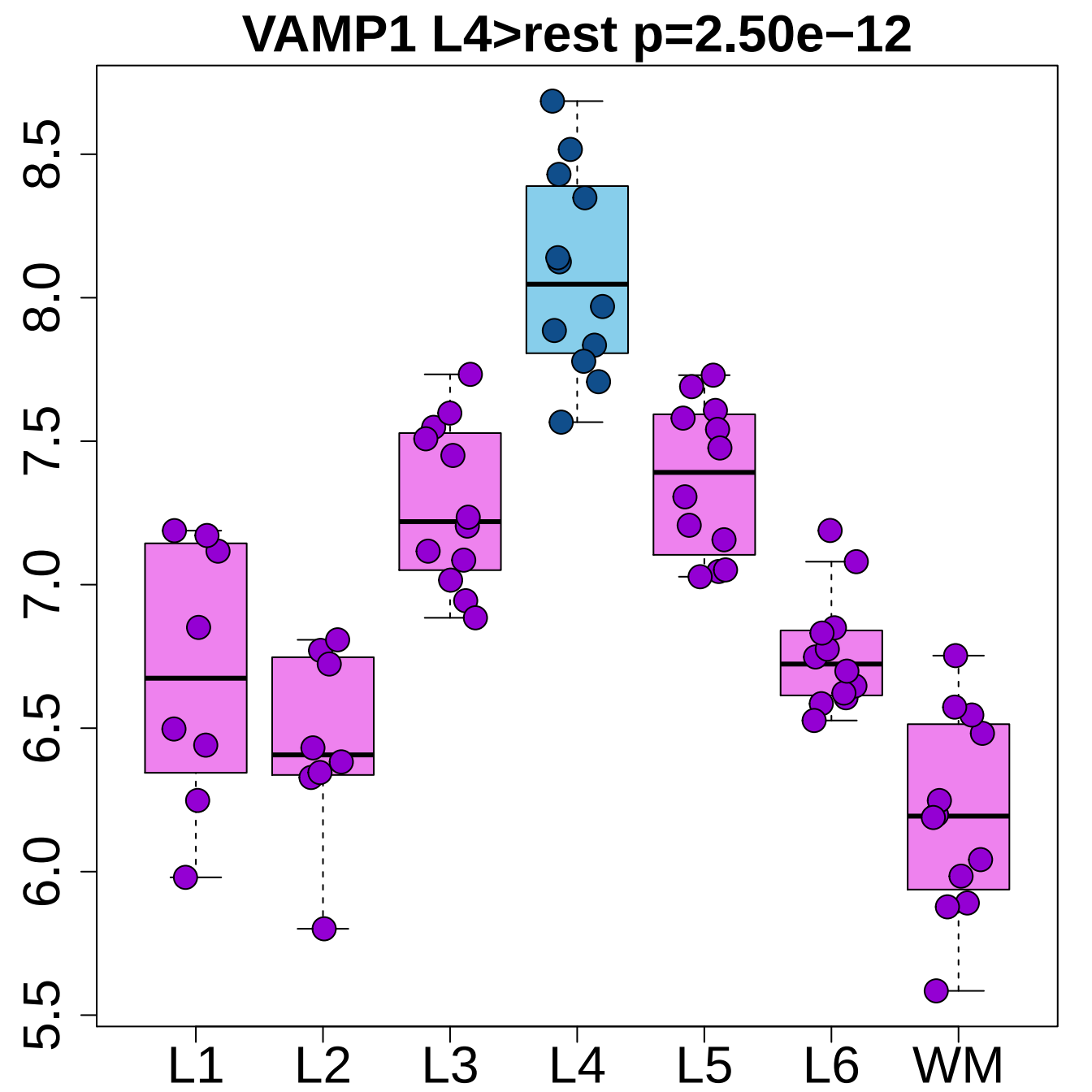
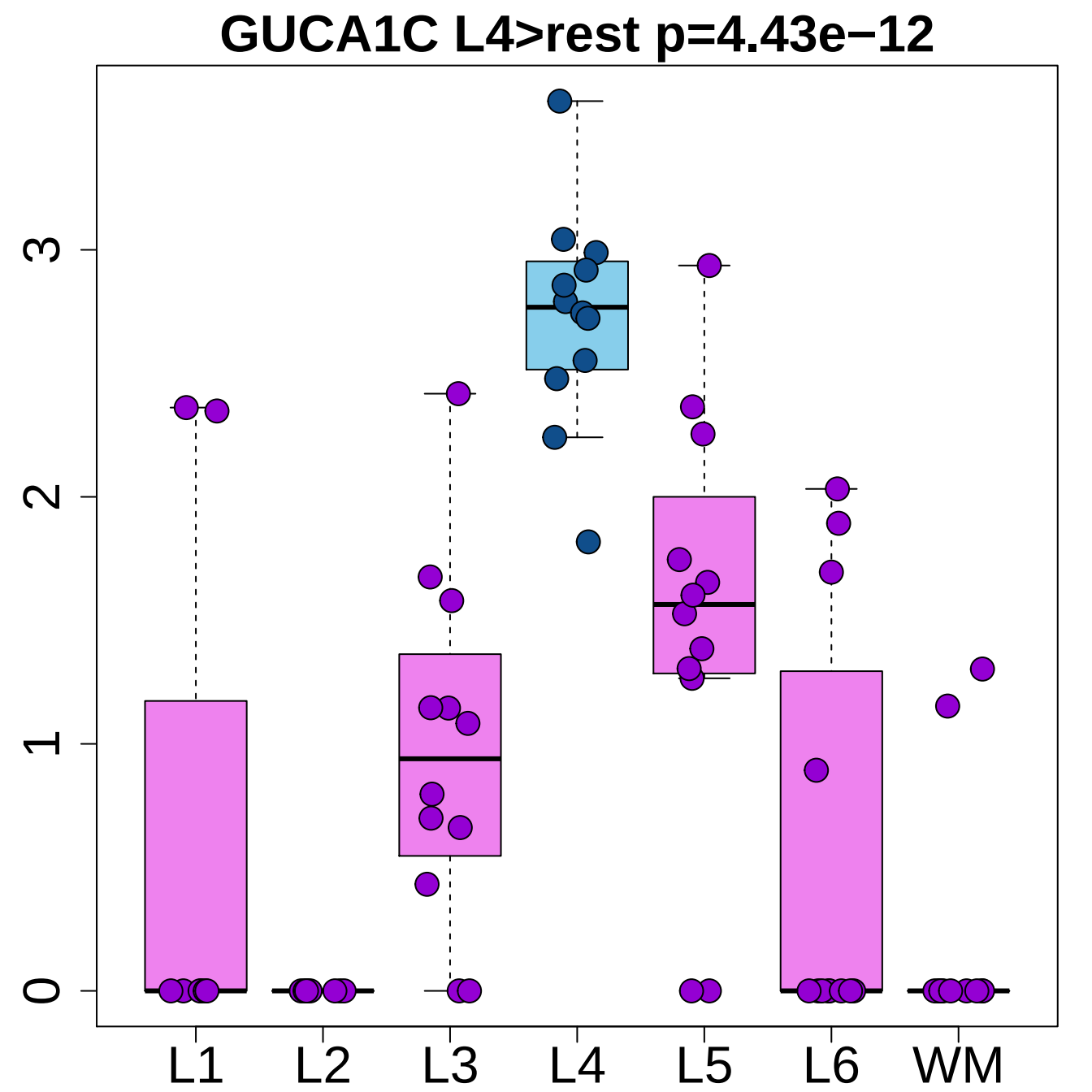
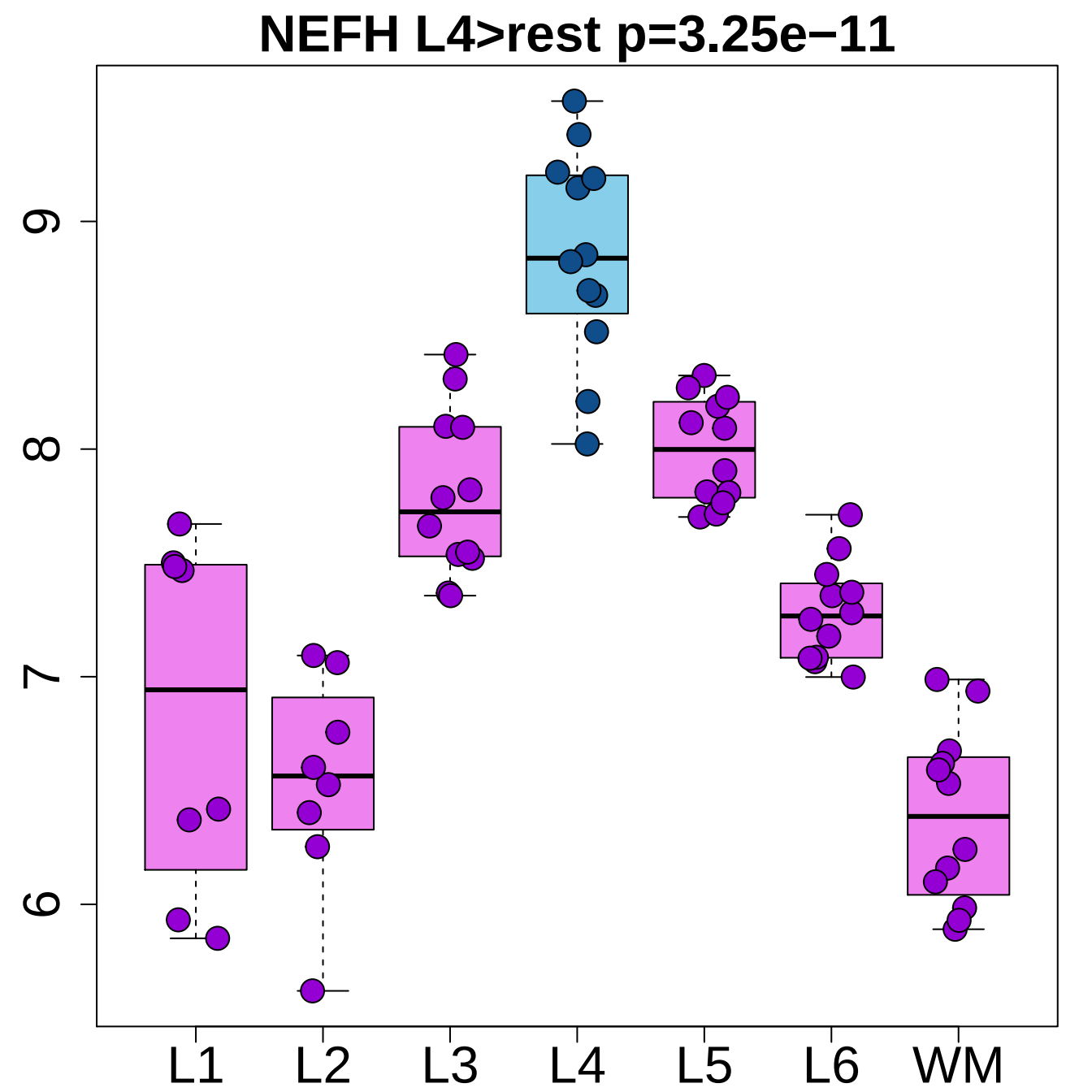
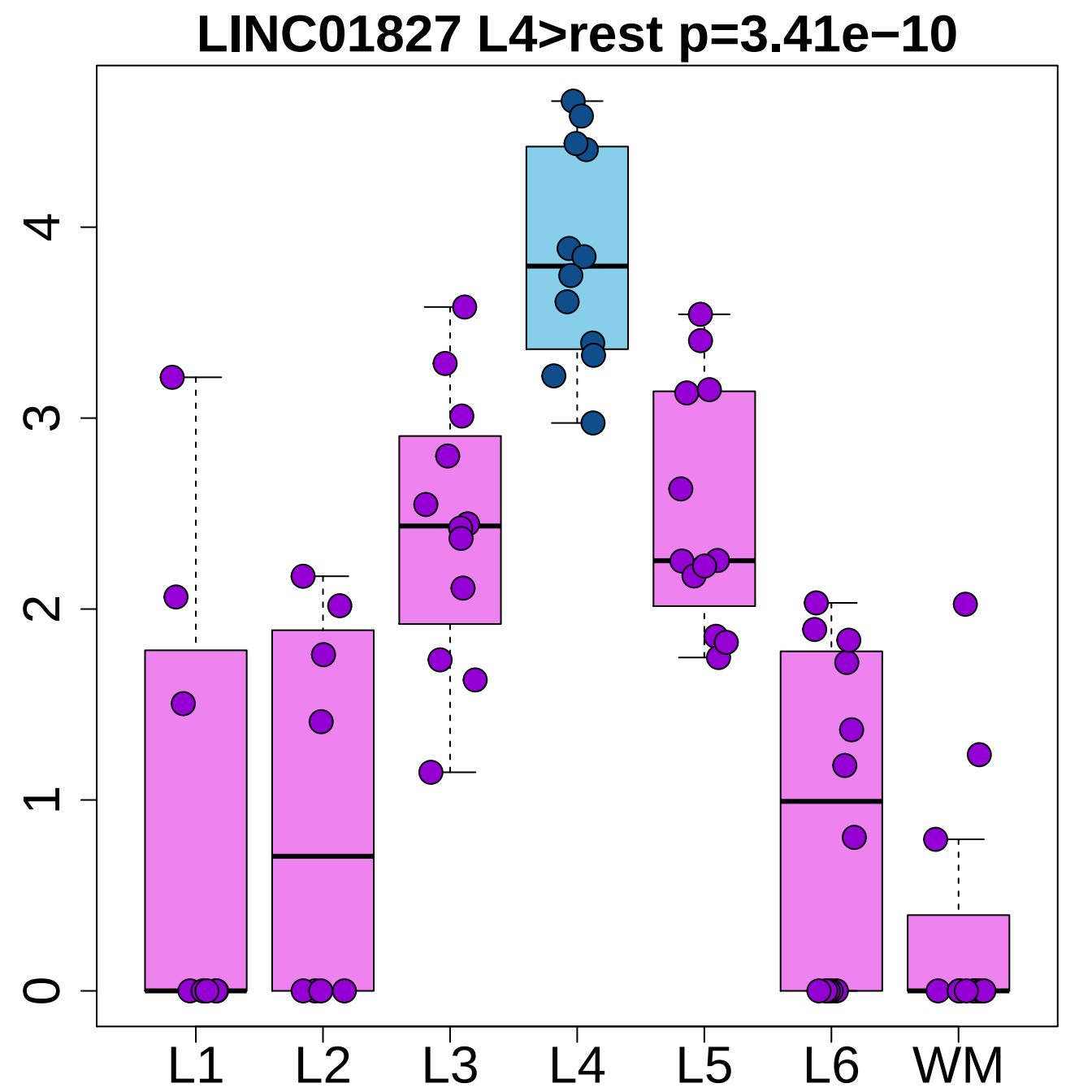
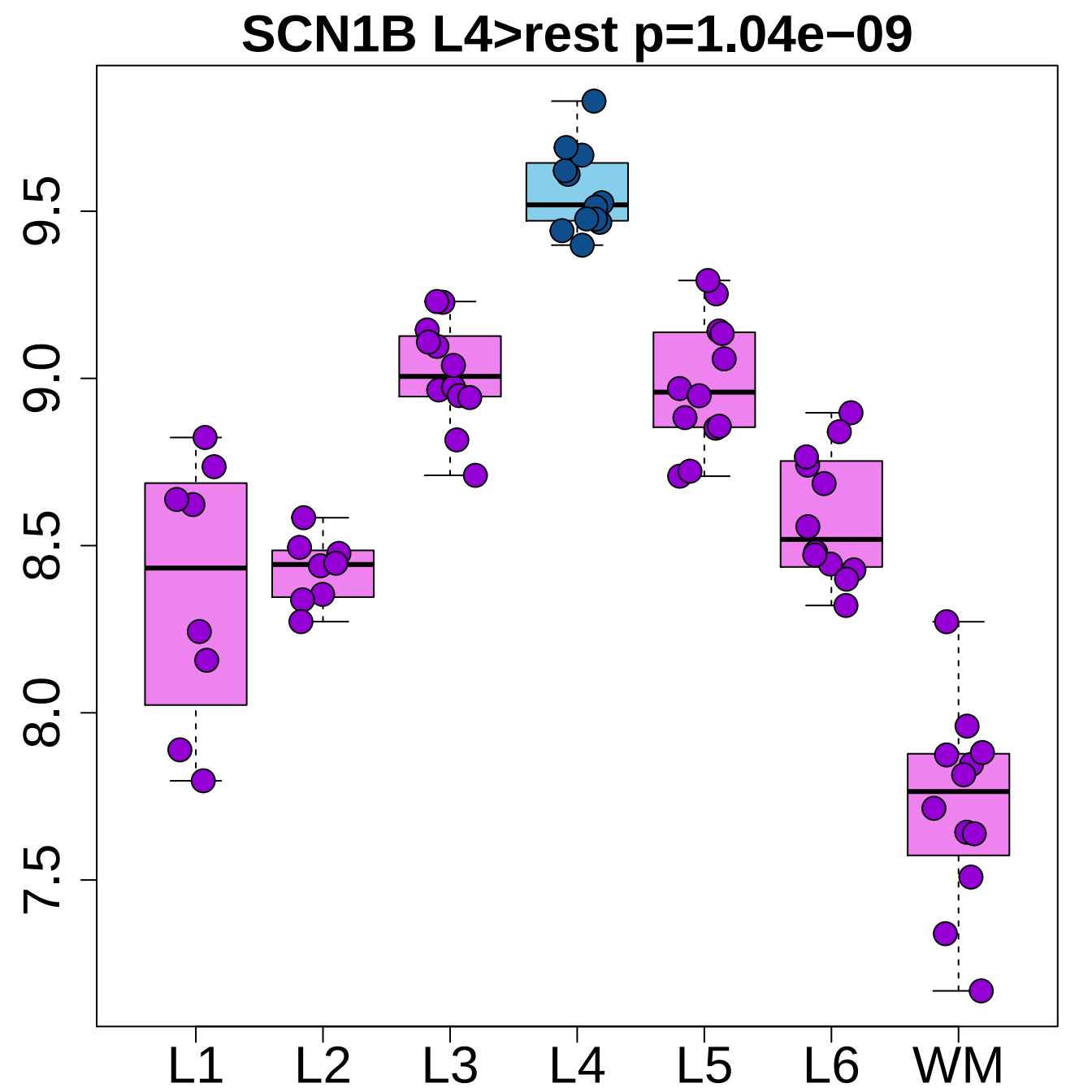
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

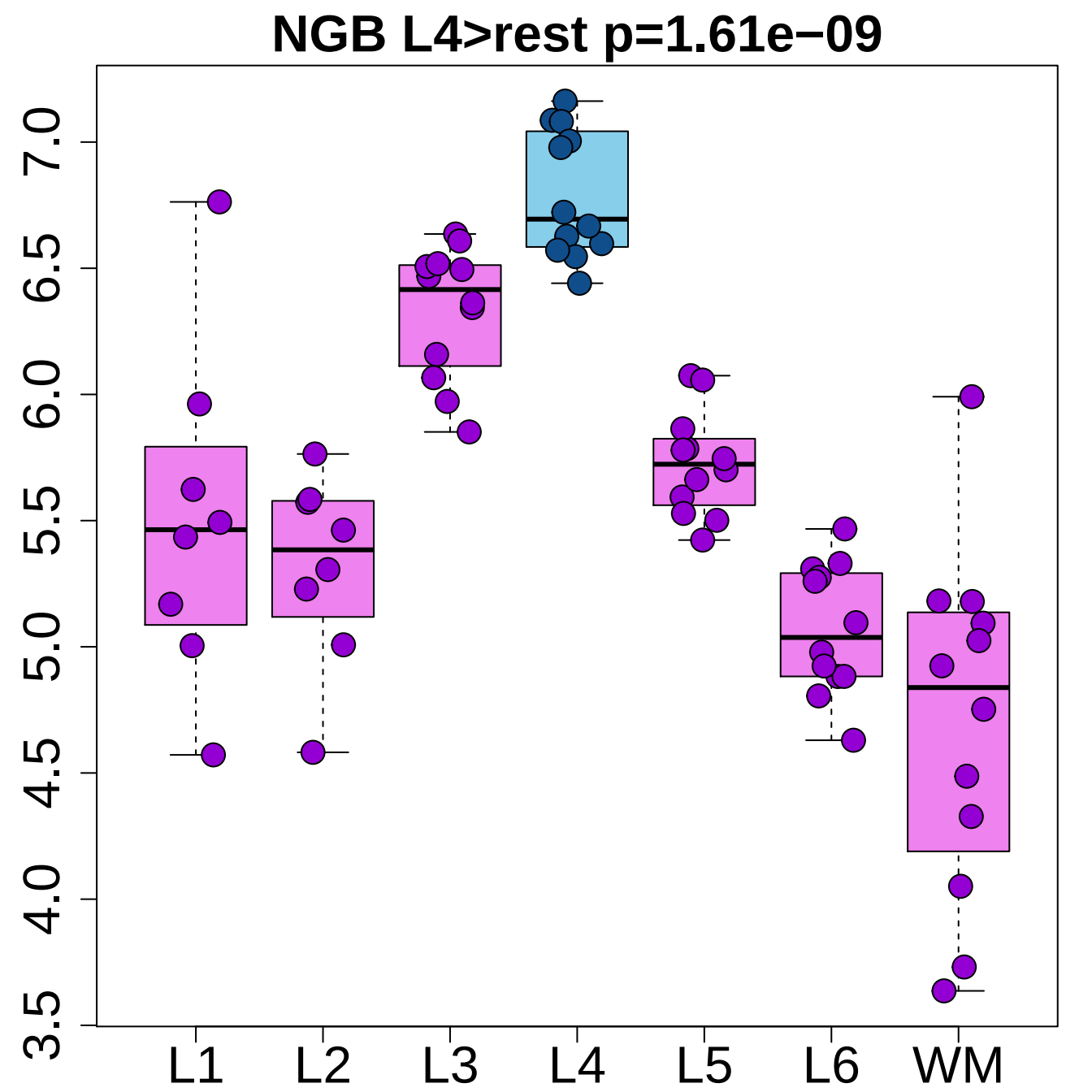

VAMP1 L4>rest p=2.50e−12
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

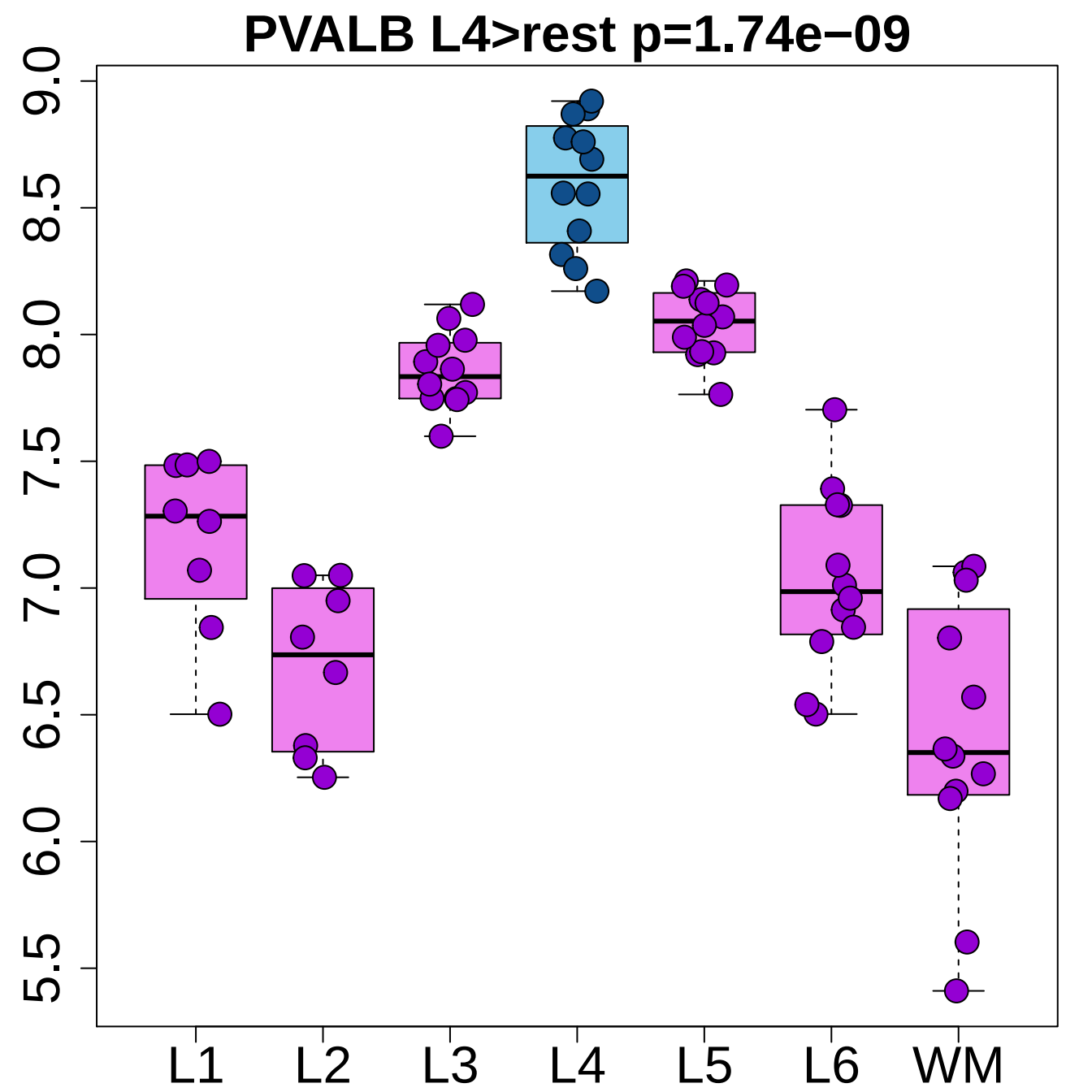

GUCA1C L4>rest p=4.43e−12
0
1
2
3
L1
L2
L3
L4
L5
L6
WM

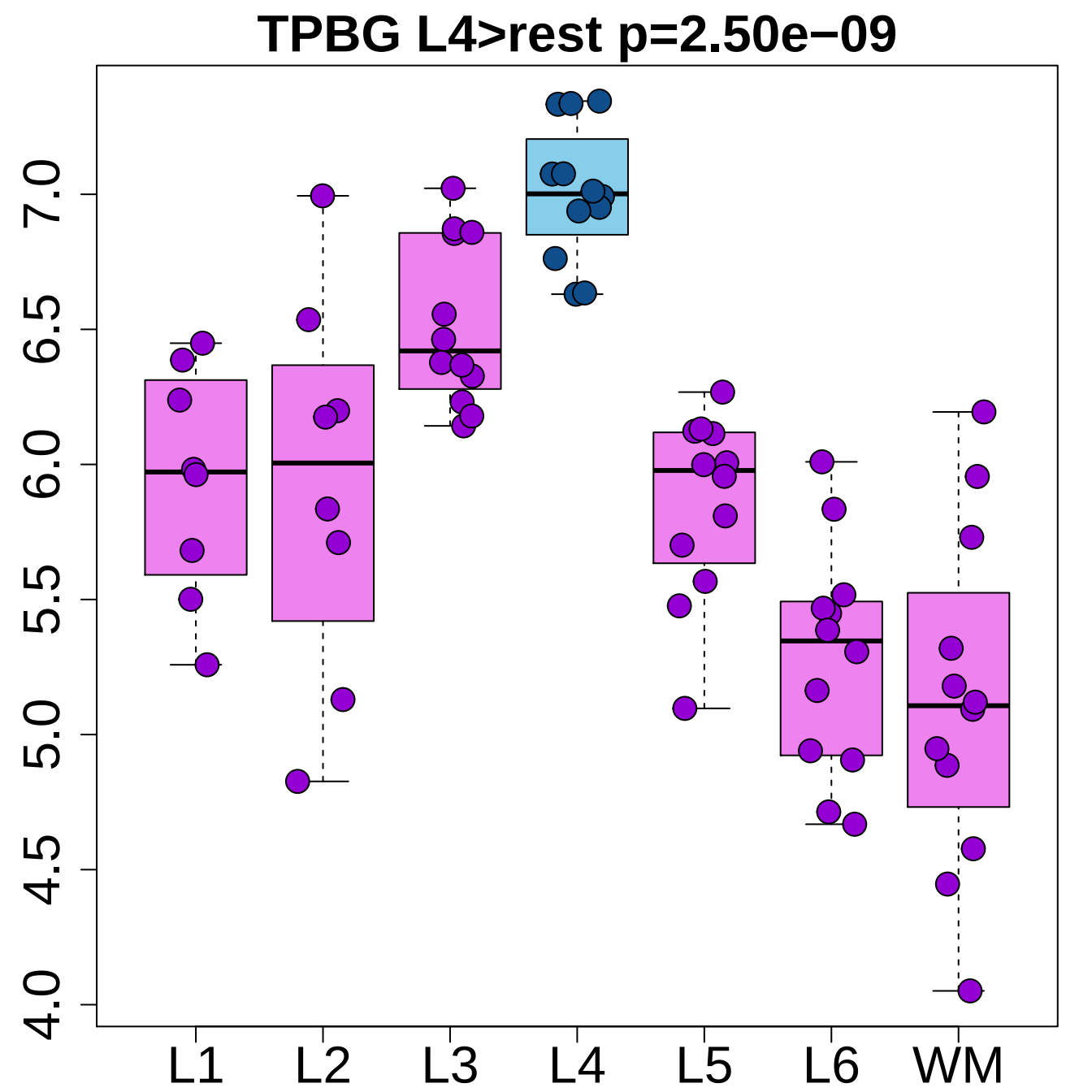

NEFH L4>rest p=3.25e−11
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

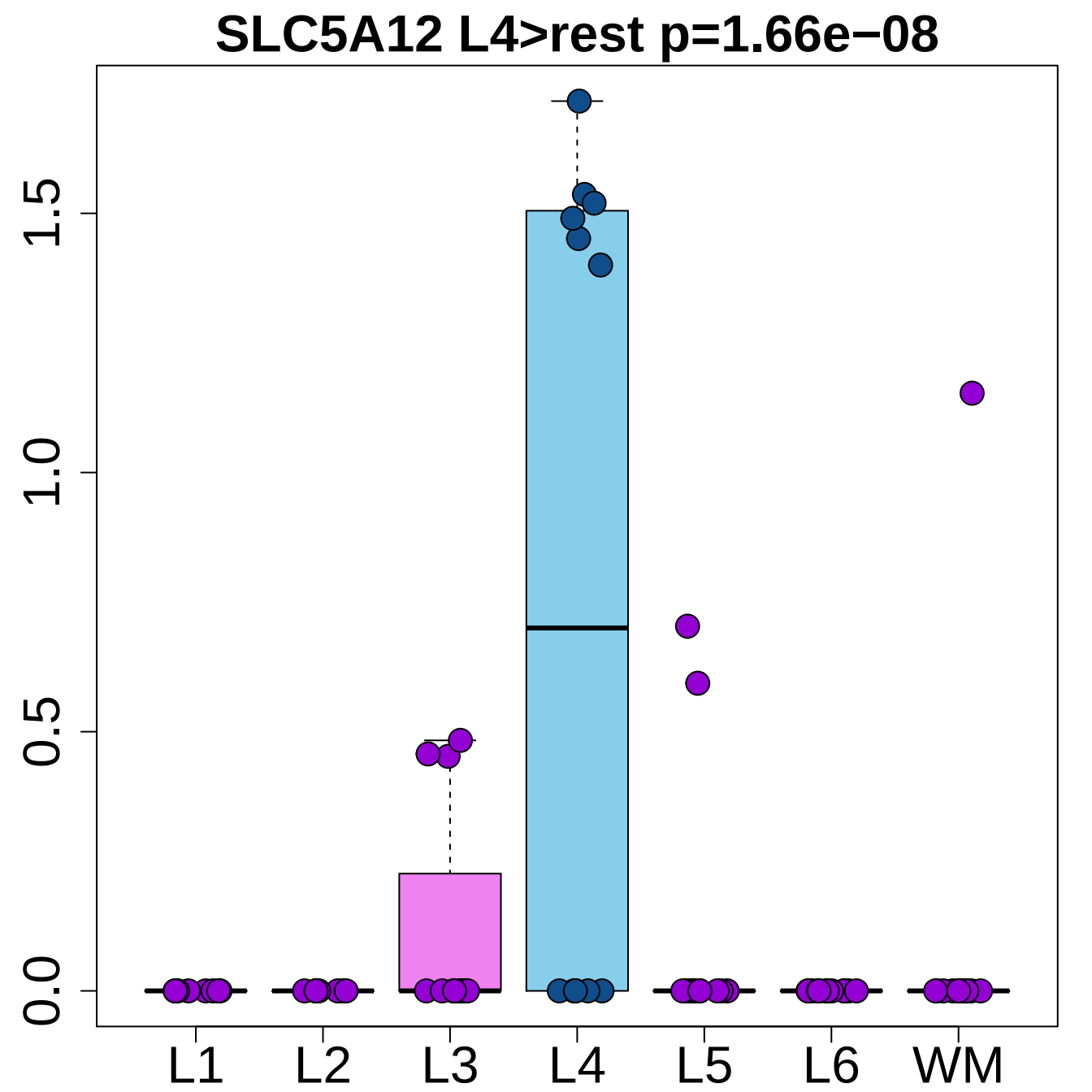

LINC01827 L4>rest p=3.41e−10
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM

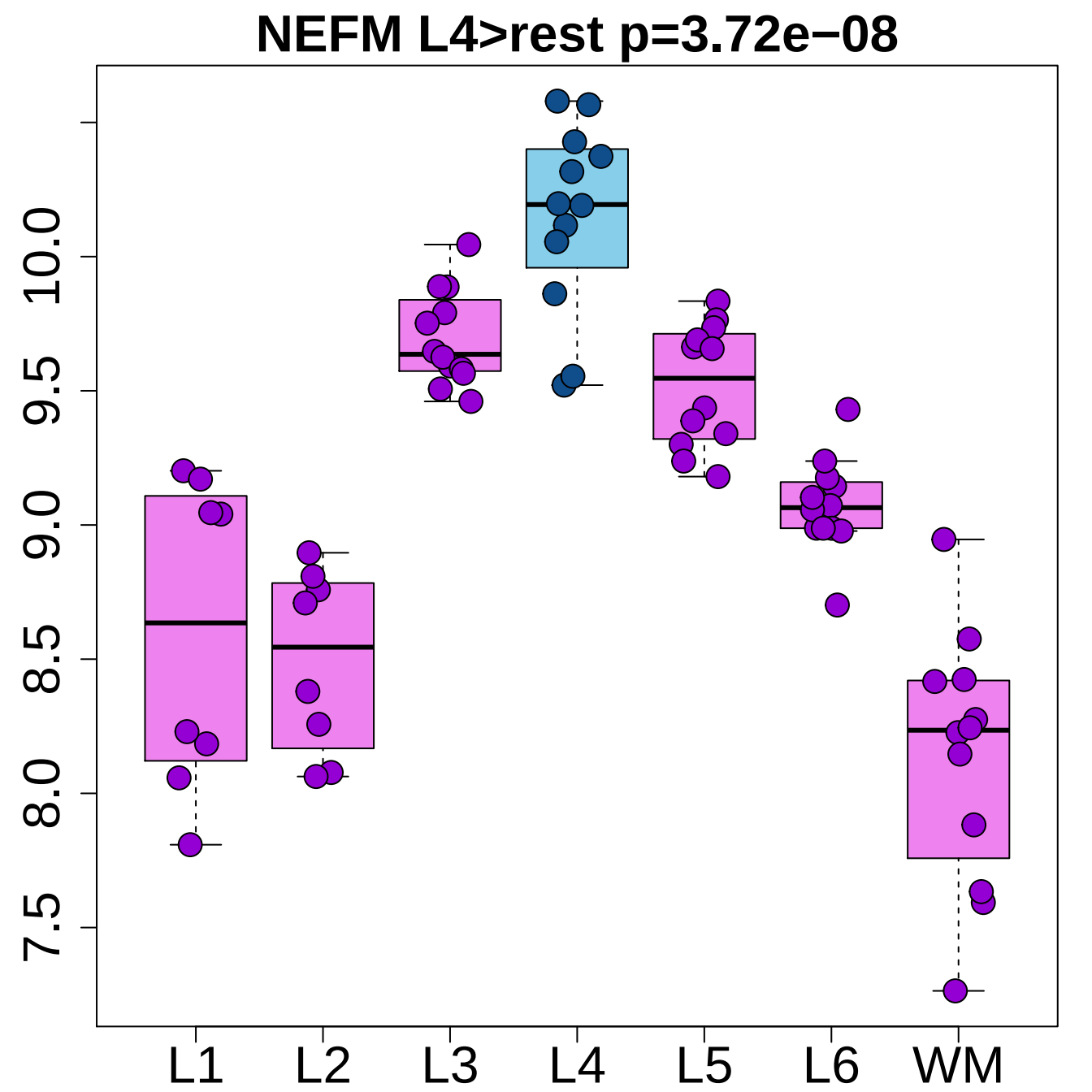

SCN1B L4>rest p=1.04e−09
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

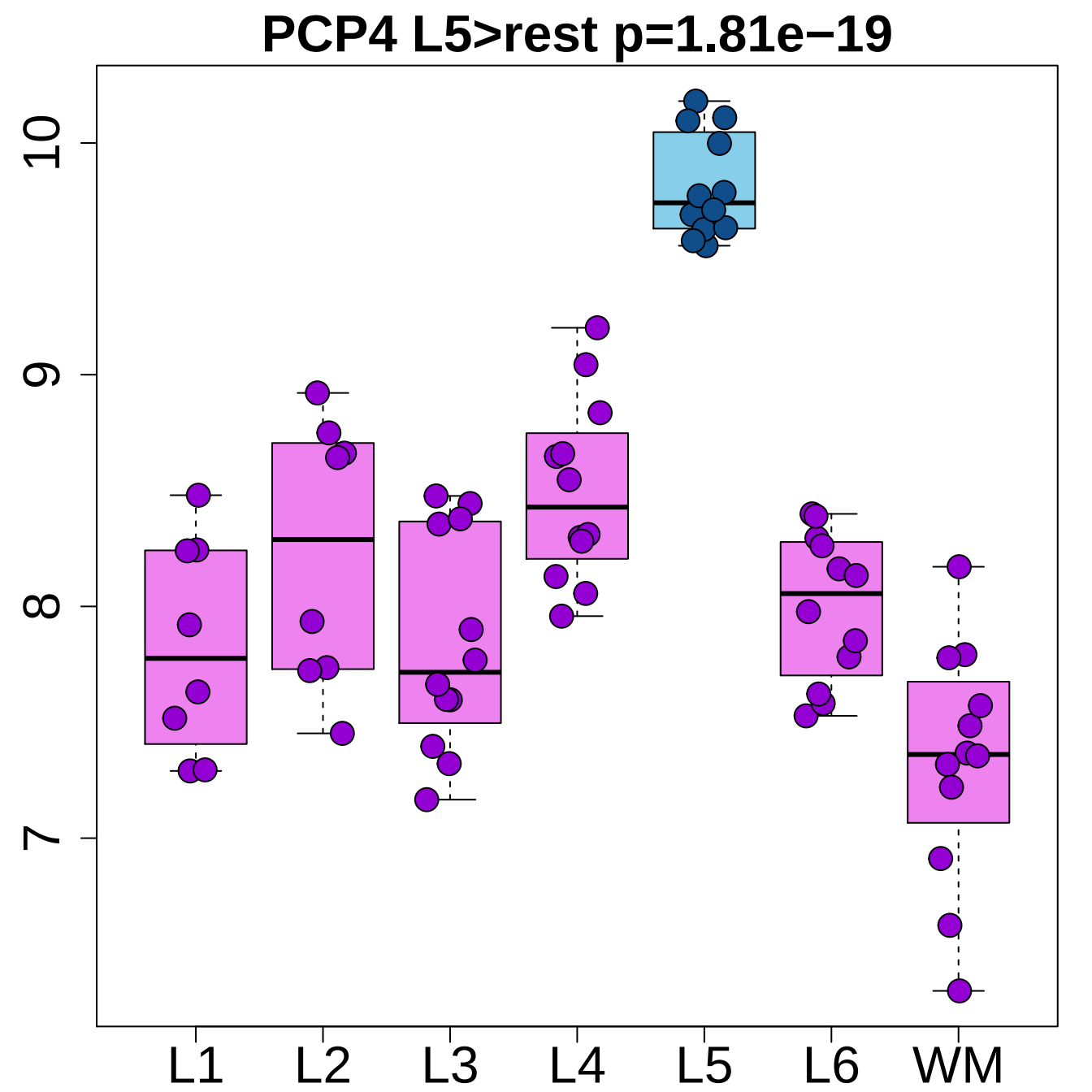

NGB L4>rest p=1.61e−09
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM

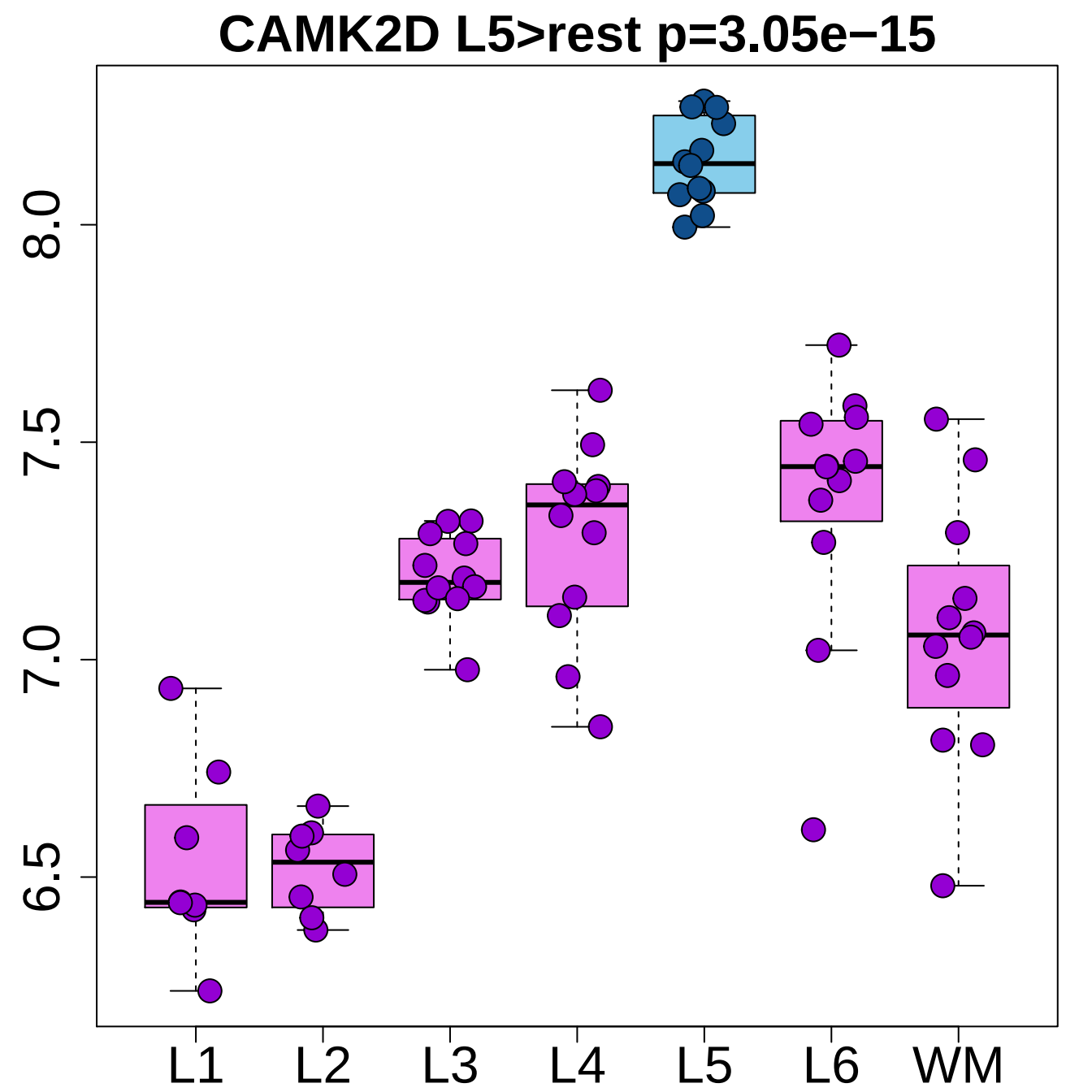

PVALB L4>rest p=1.74e−09
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

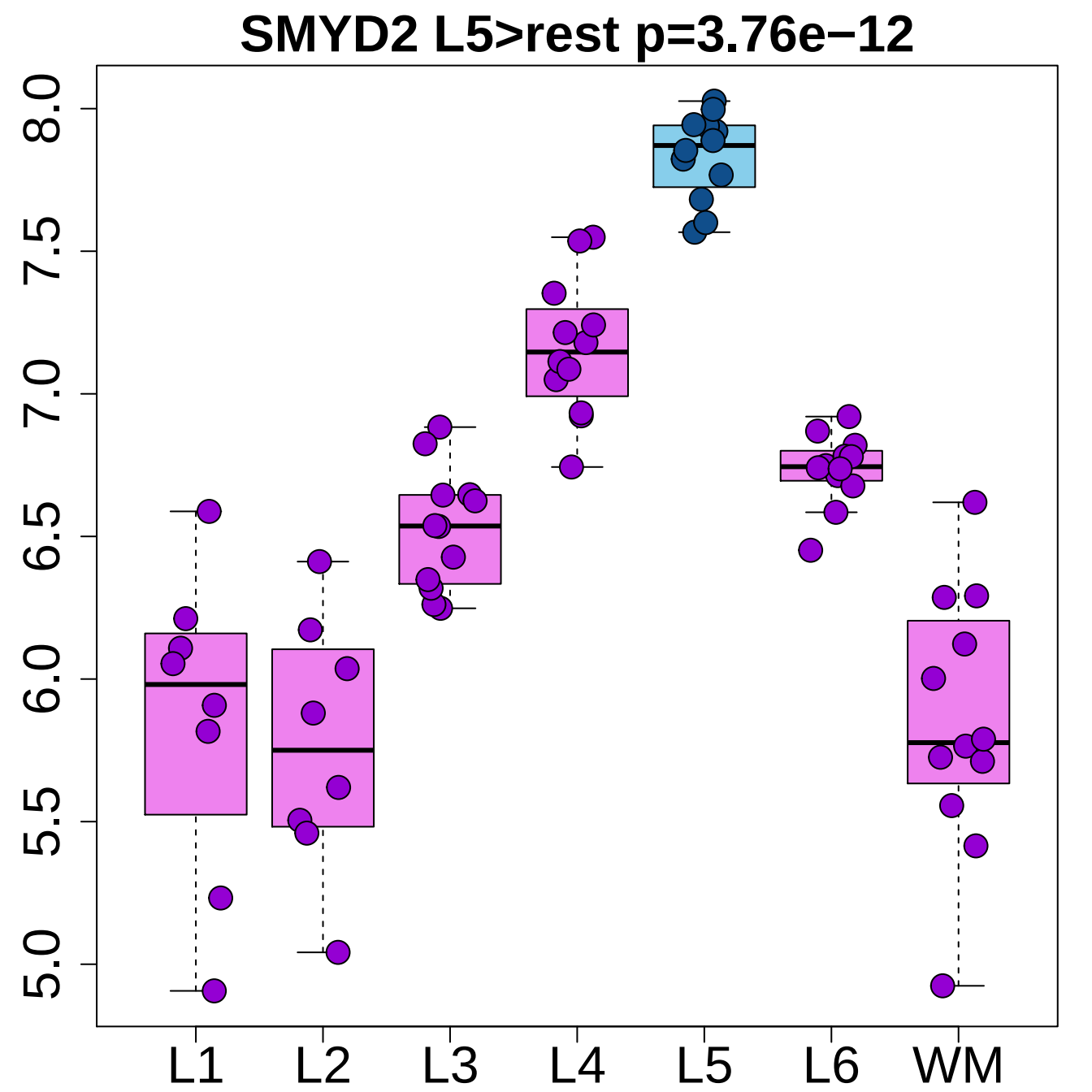

TPBG L4>rest p=2.50e−09
7.0
6.5
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM

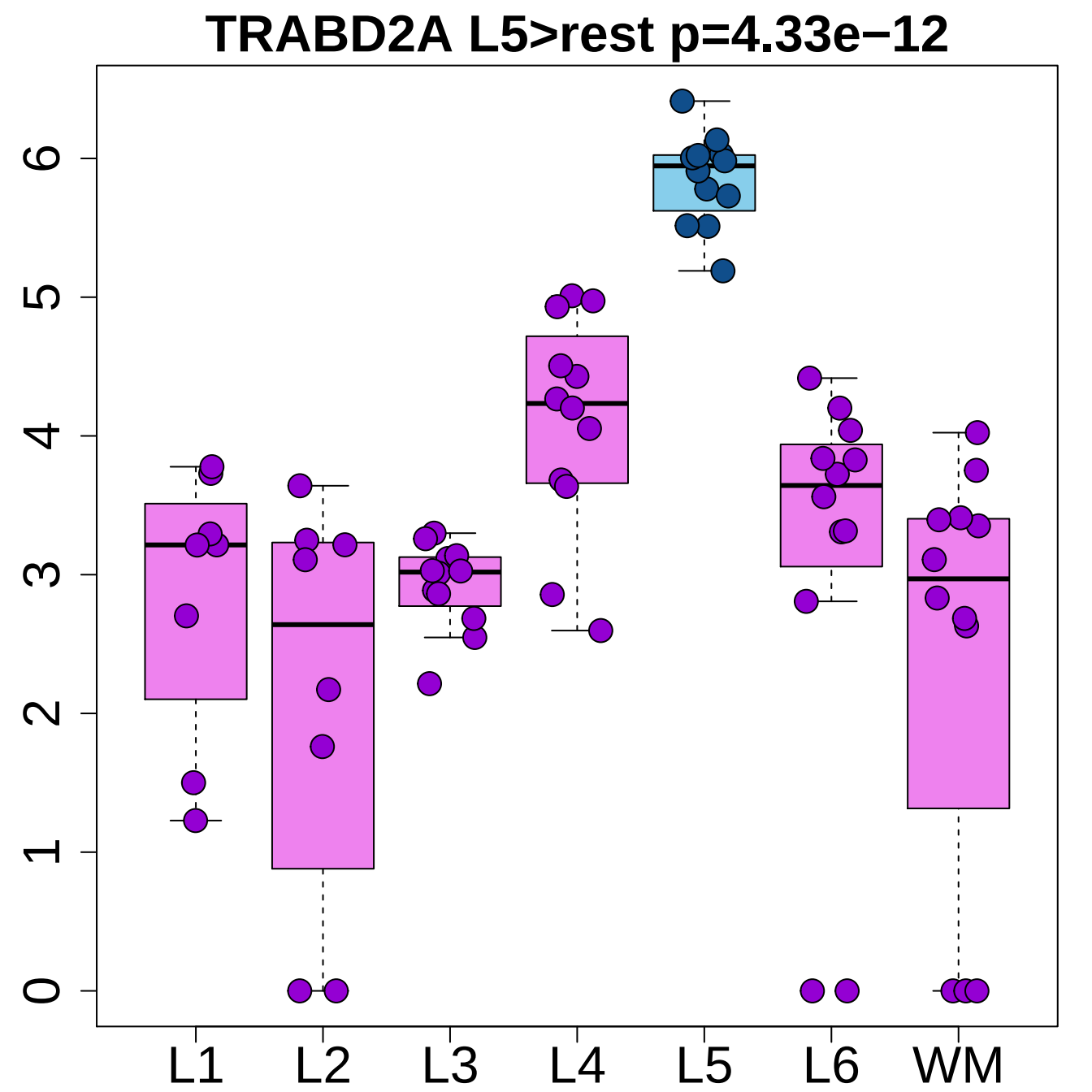

SLC5A12 L4>rest p=1.66e−08
0.0
0.5
1.0
1.5
L1
L2
L3
L4
L5
L6
WM

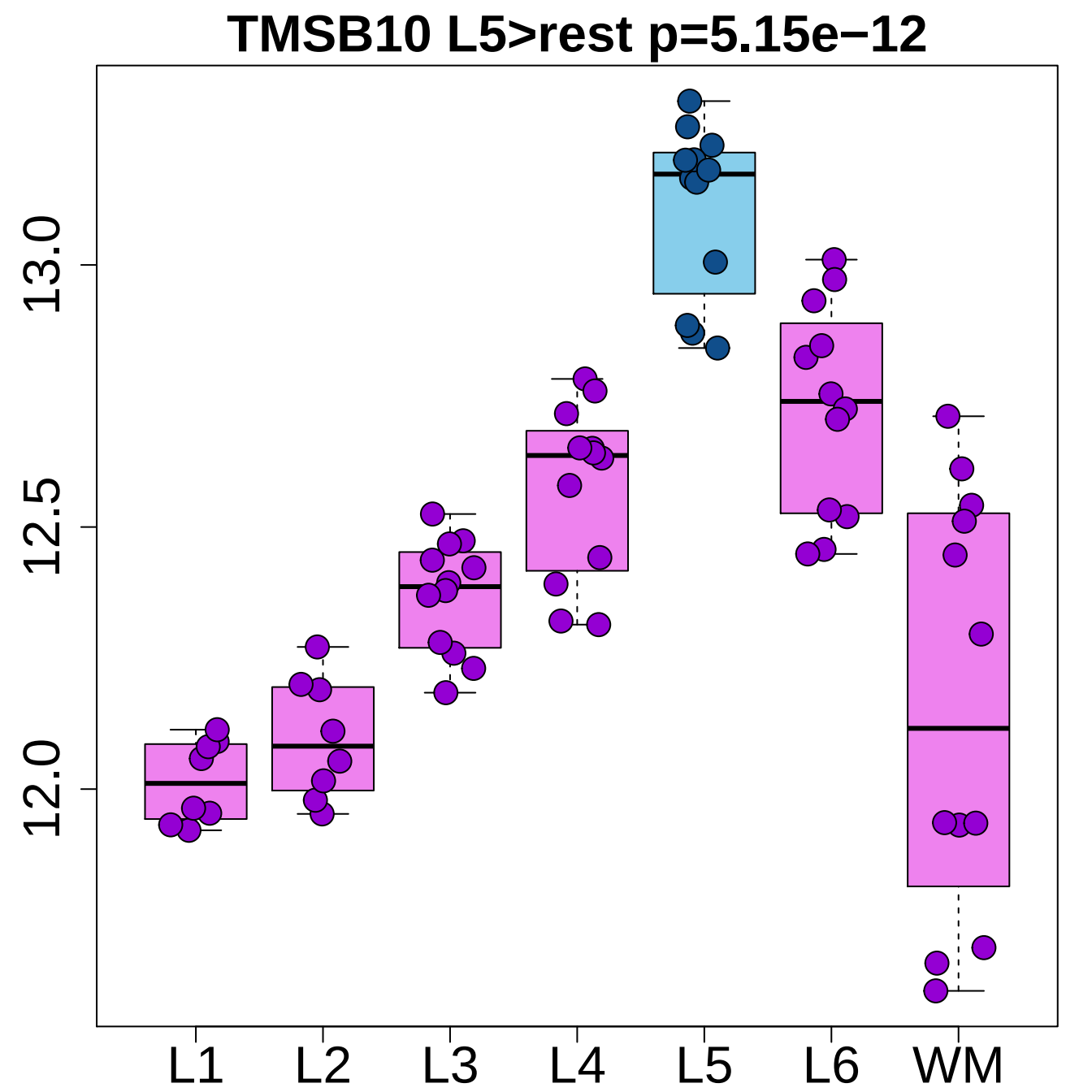

NEFM L4>rest p=3.72e−08
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

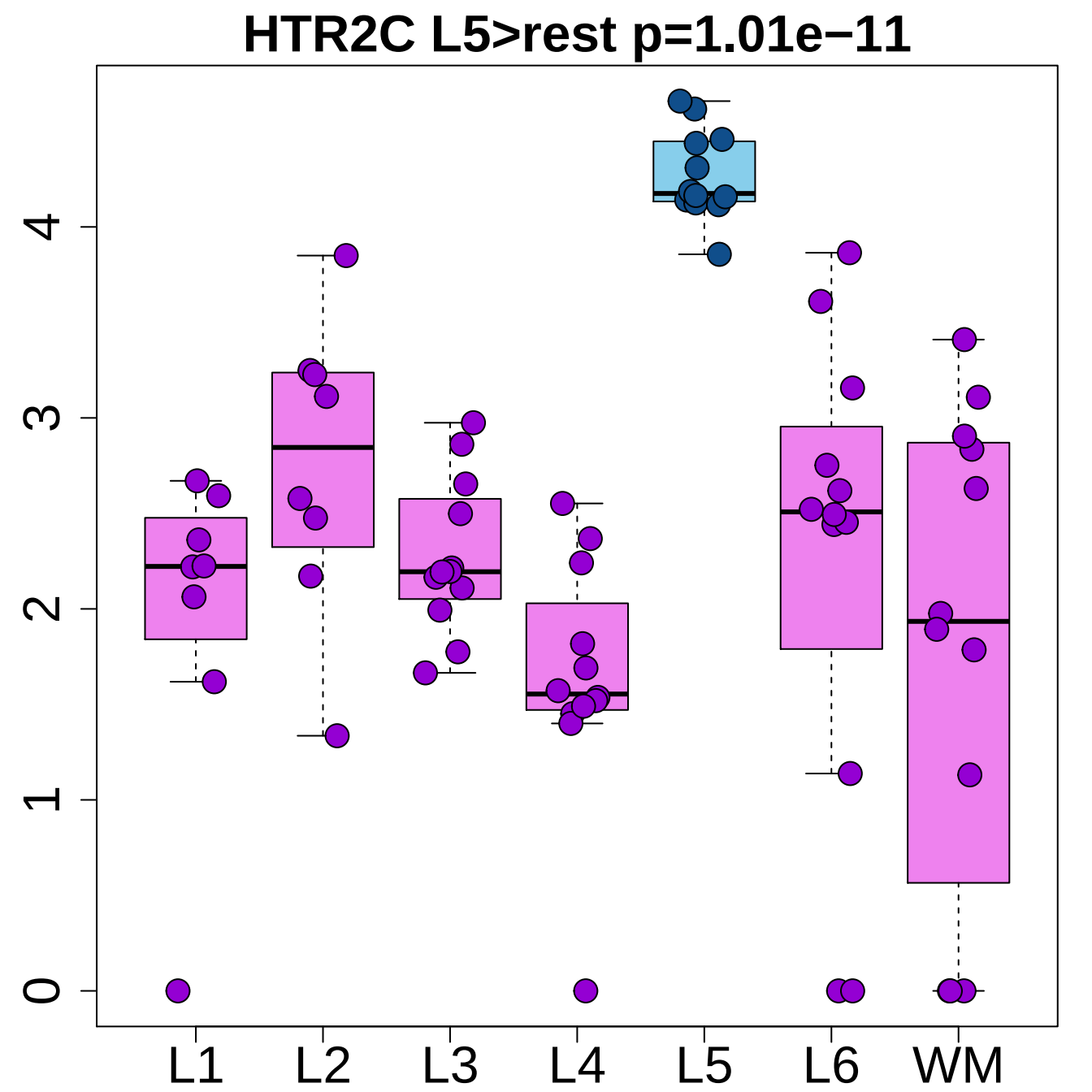

PCP4 L5>rest p=1.81e−19
10
9
8
7
L1
L2
L3
L4
L5
L6
WM

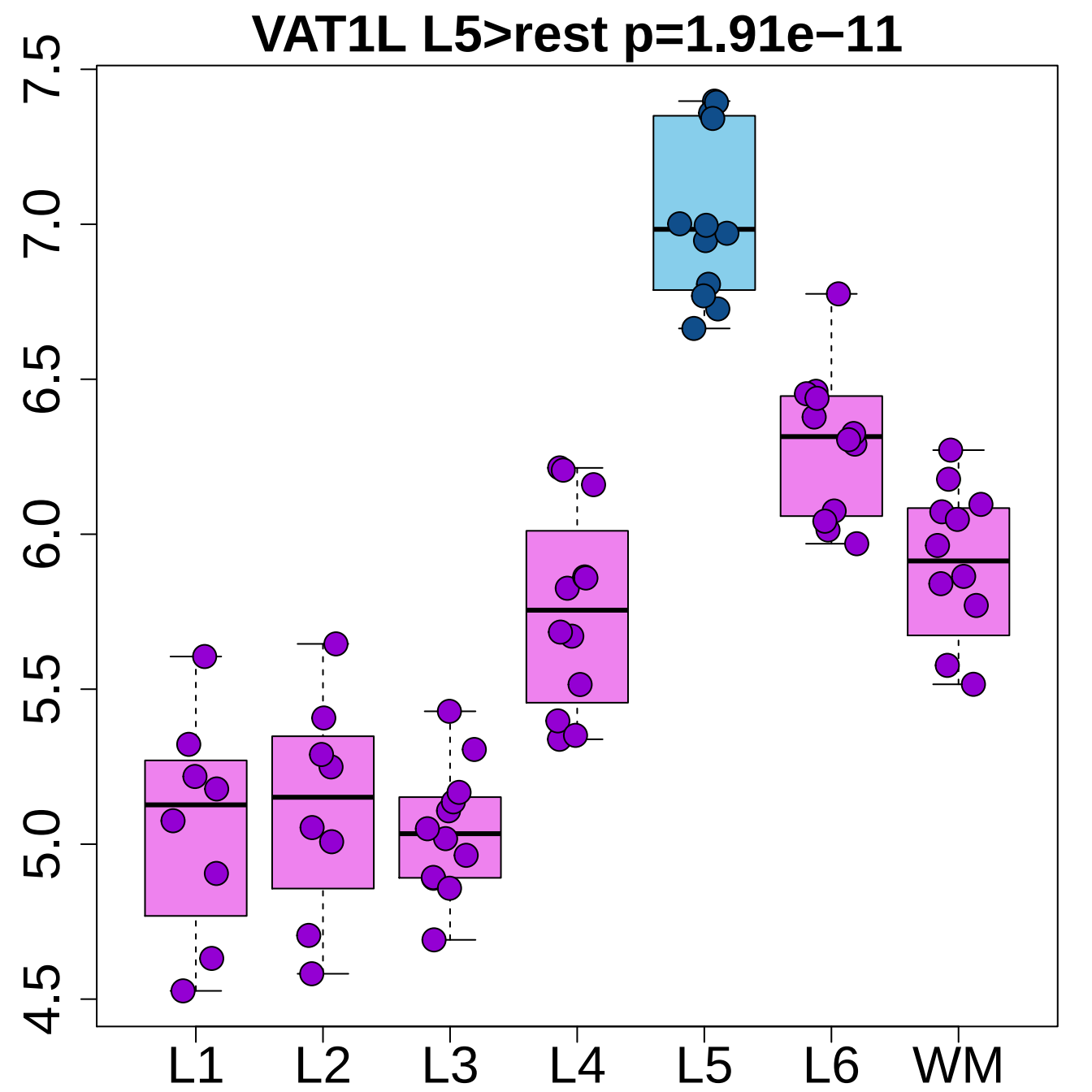

CAMK2D L5>rest p=3.05e−15
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

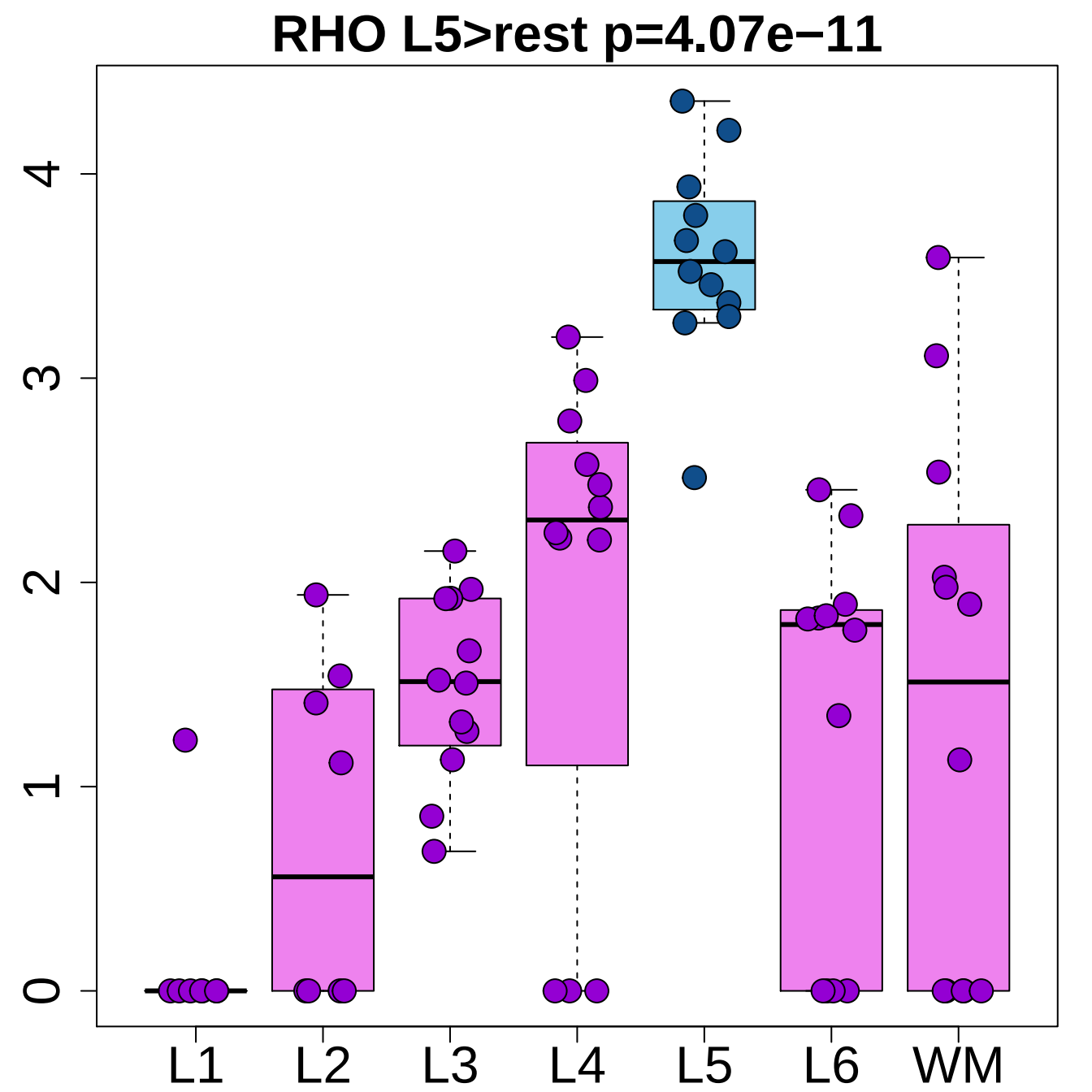

SMYD2 L5>rest p=3.76e−12
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

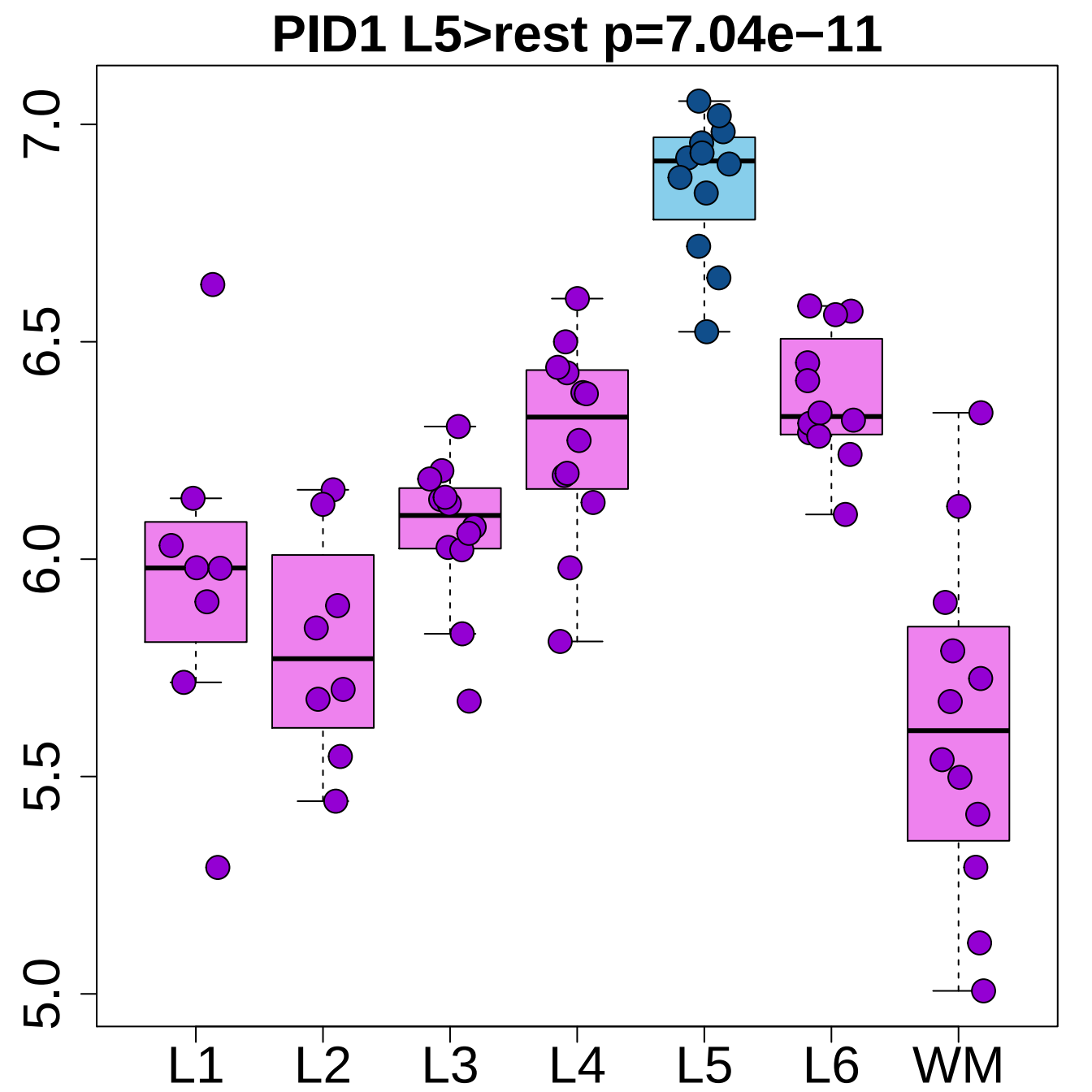

TRABD2A L5>rest p=4.33e−12
0
1
2
3
4
5
6
L1
L2
L3
L4
L5
L6
WM


TMSB10 L5>rest p=5.15e−12
13.0
12.5
12.0
L1
L2
L3
L4
L5
L6
WM


HTR2C L5>rest p=1.01e−11
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM


VAT1L L5>rest p=1.91e−11
7.5
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


RHO L5>rest p=4.07e−11
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM


PID1 L5>rest p=7.04e−11
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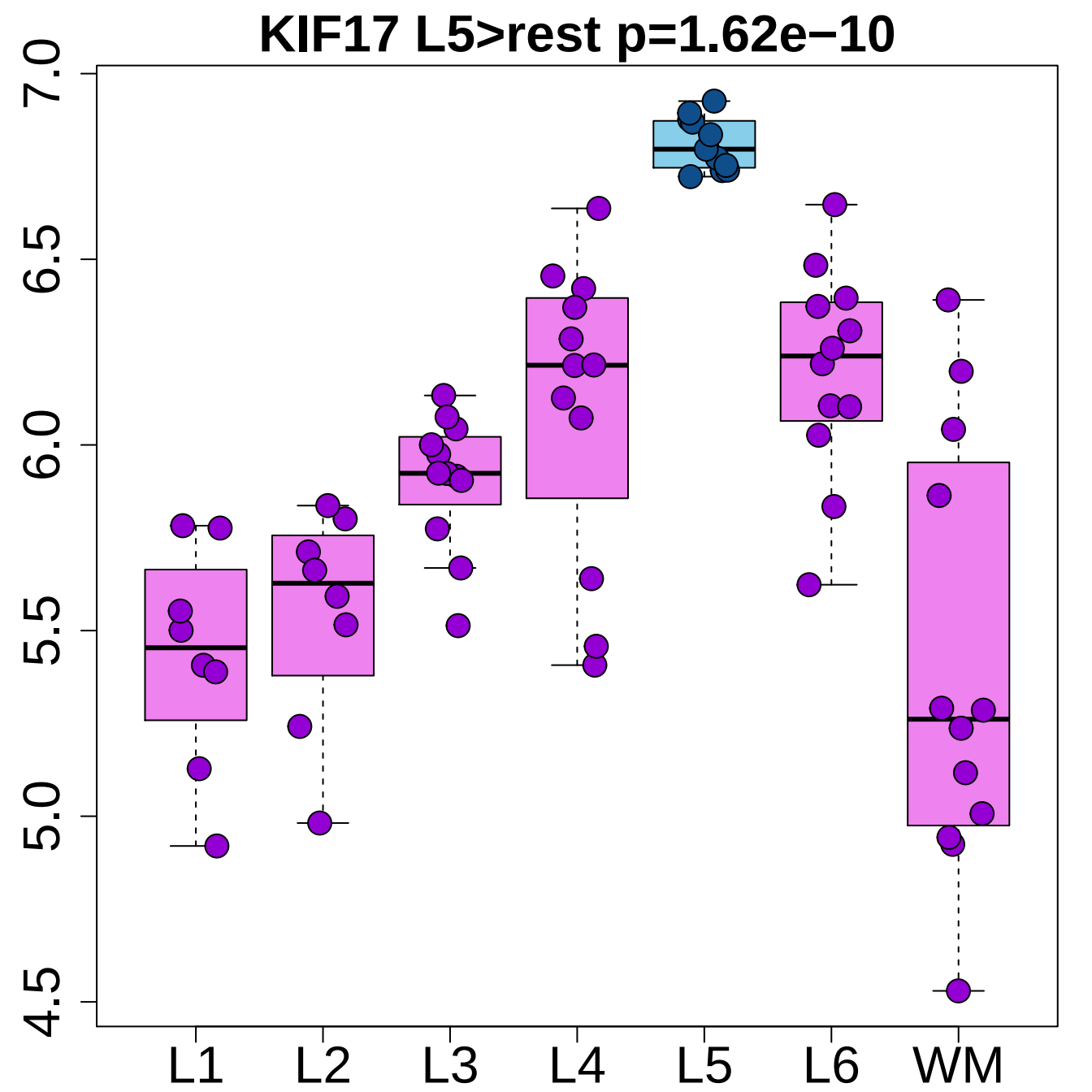
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


KIF17 L5>rest p=1.62e−10
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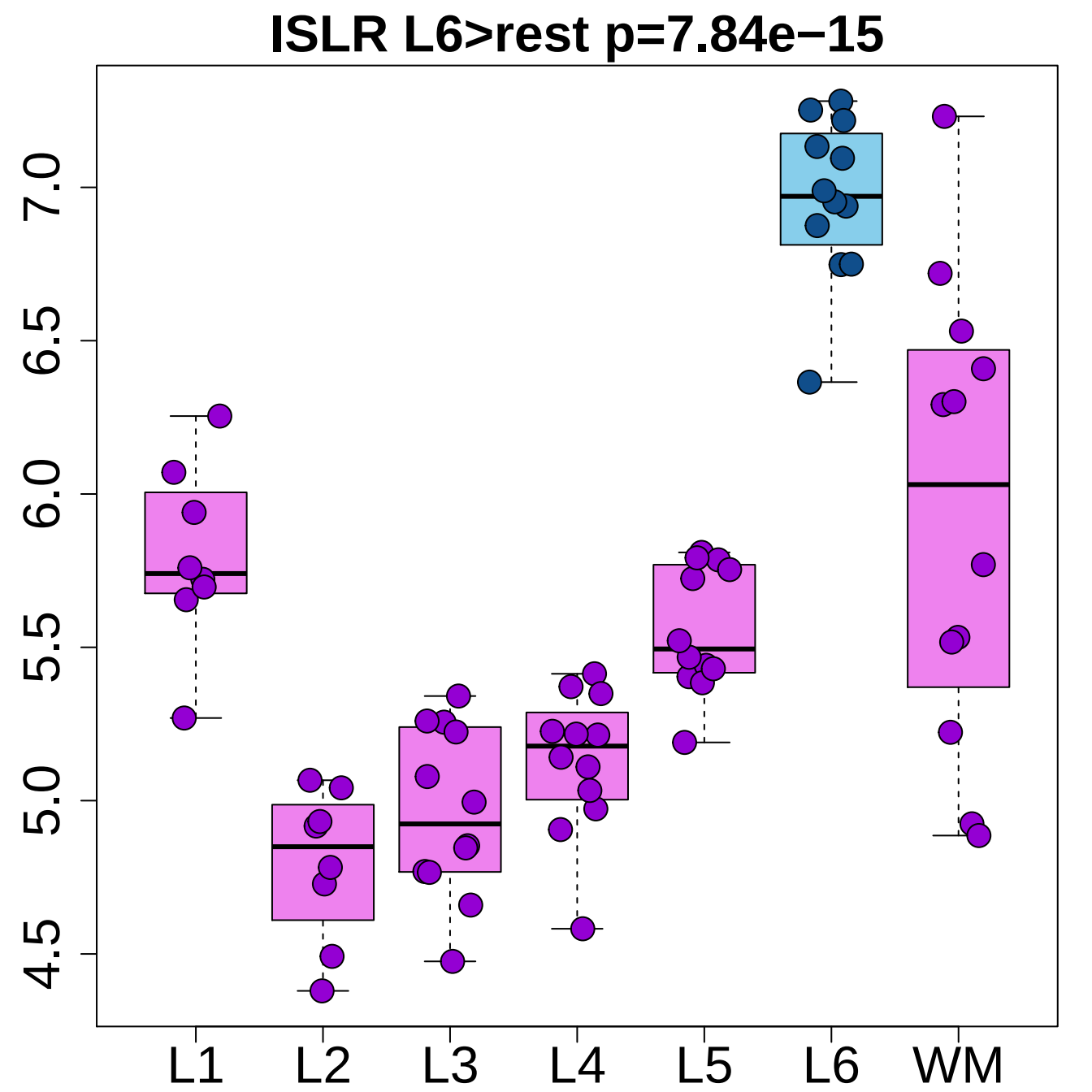
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


ISLR L6>rest p=7.84e−15
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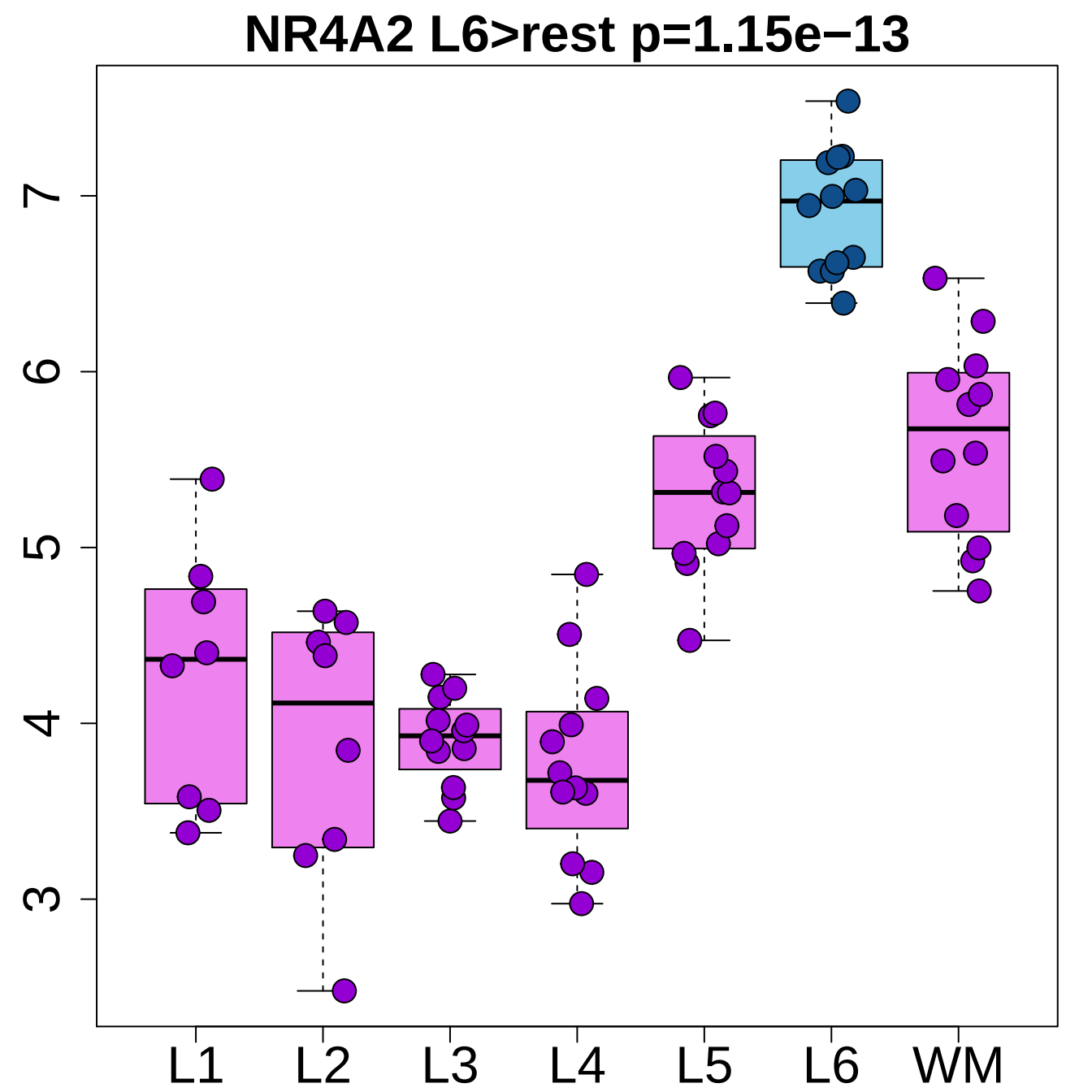
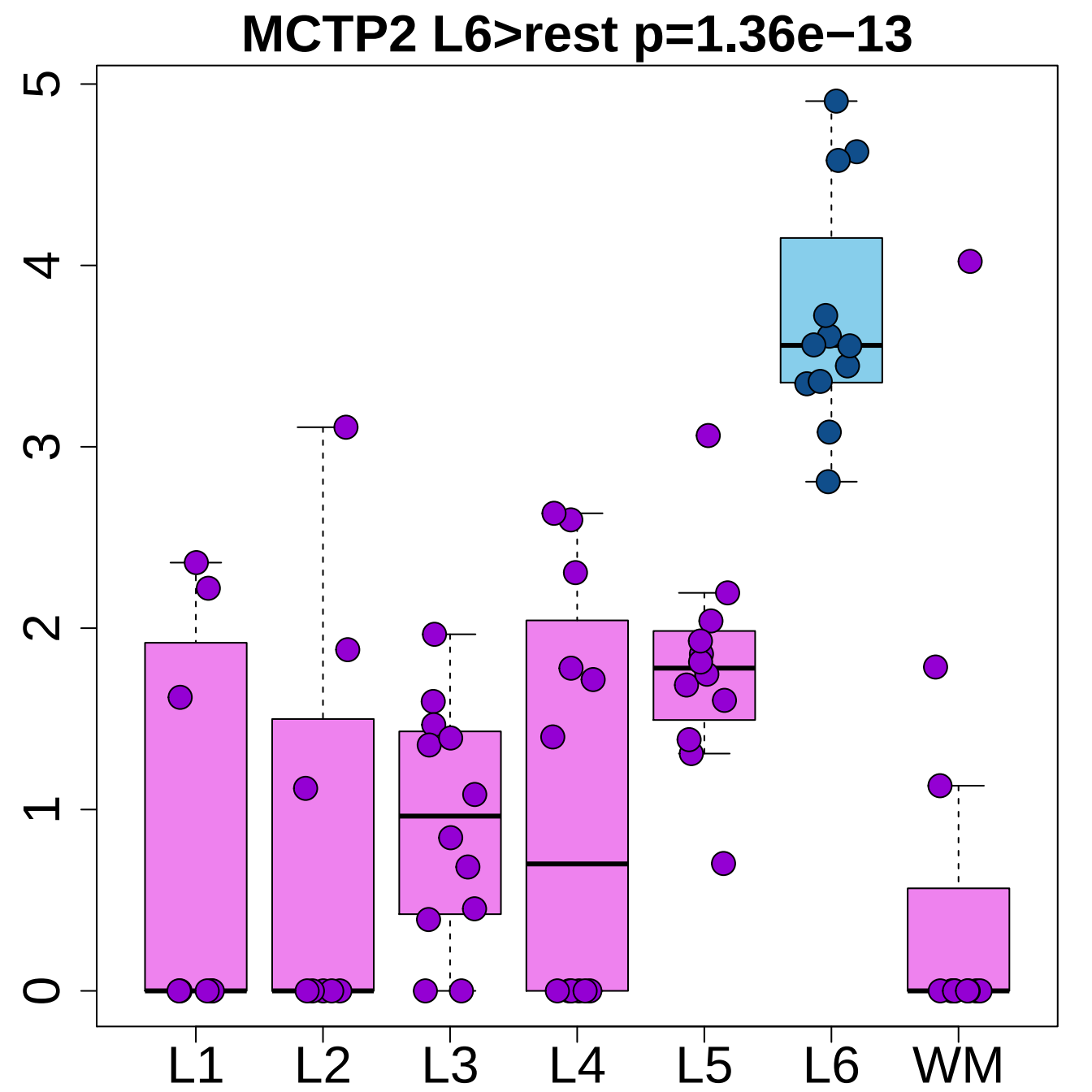
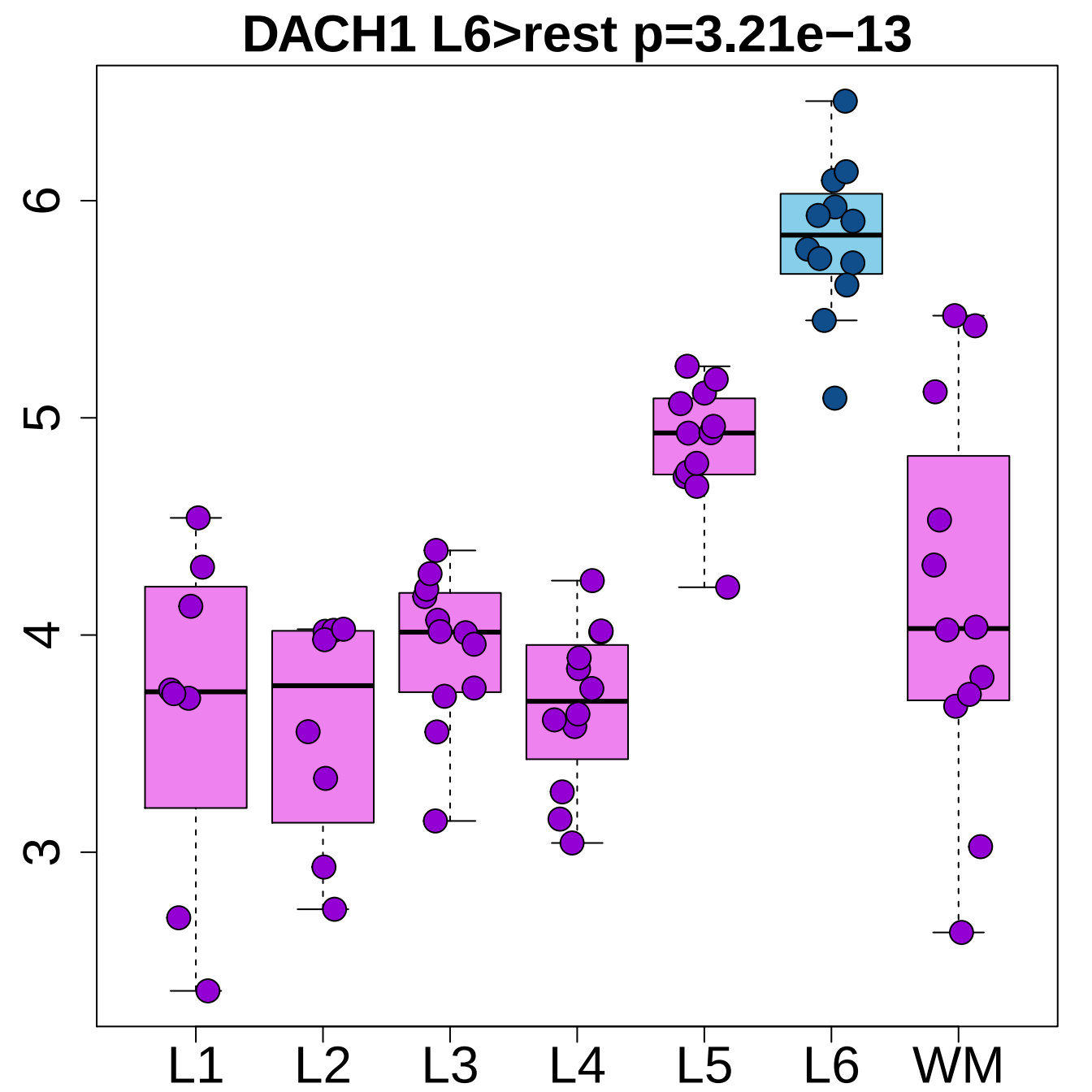
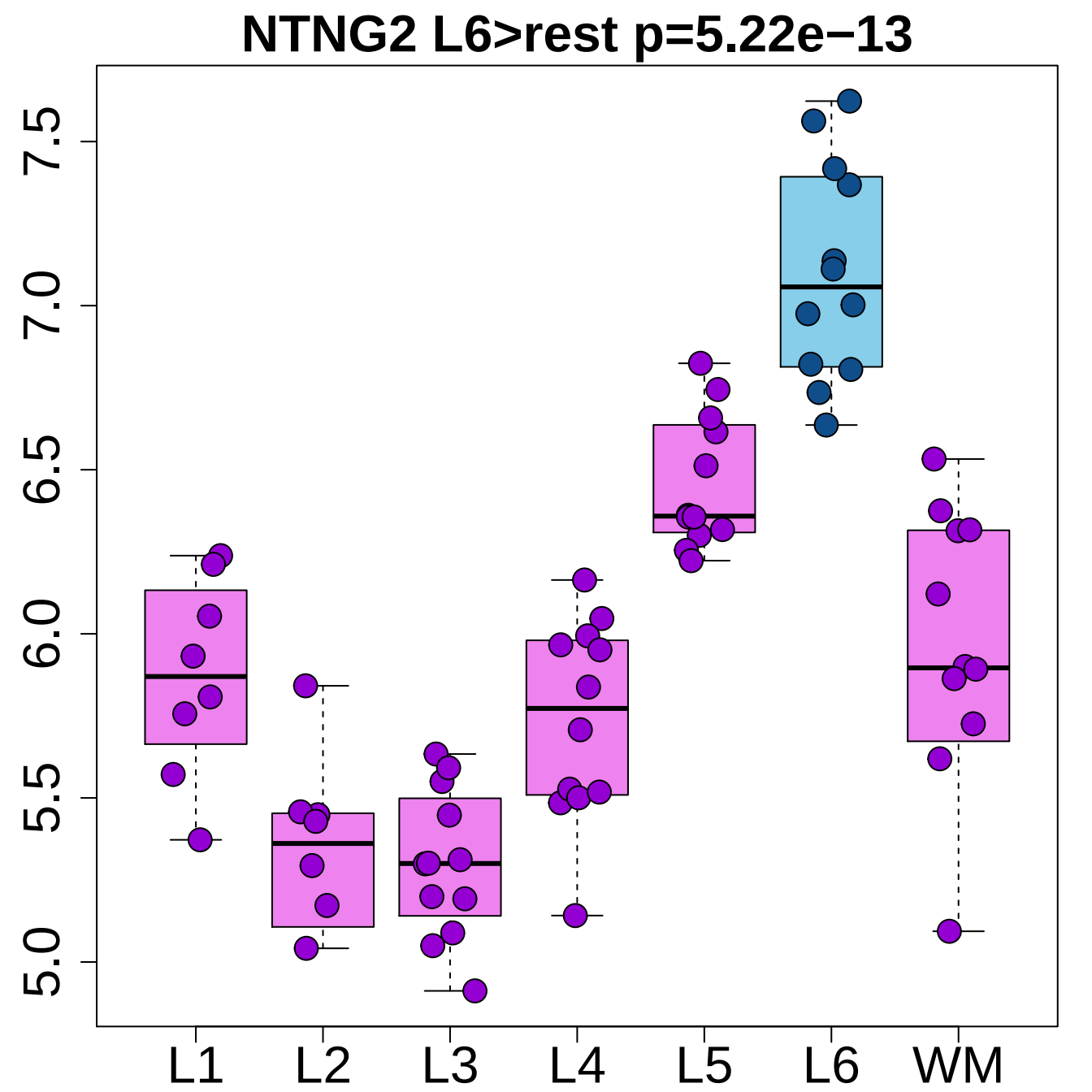
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


NR4A2 L6>rest p=1.15e−13
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


MCTP2 L6>rest p=1.36e−13
0
1
2
3
4
5
L1
L2
L3
L4
L5
L6
WM


DACH1 L6>rest p=3.21e−13
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


NTNG2 L6>rest p=5.22e−13
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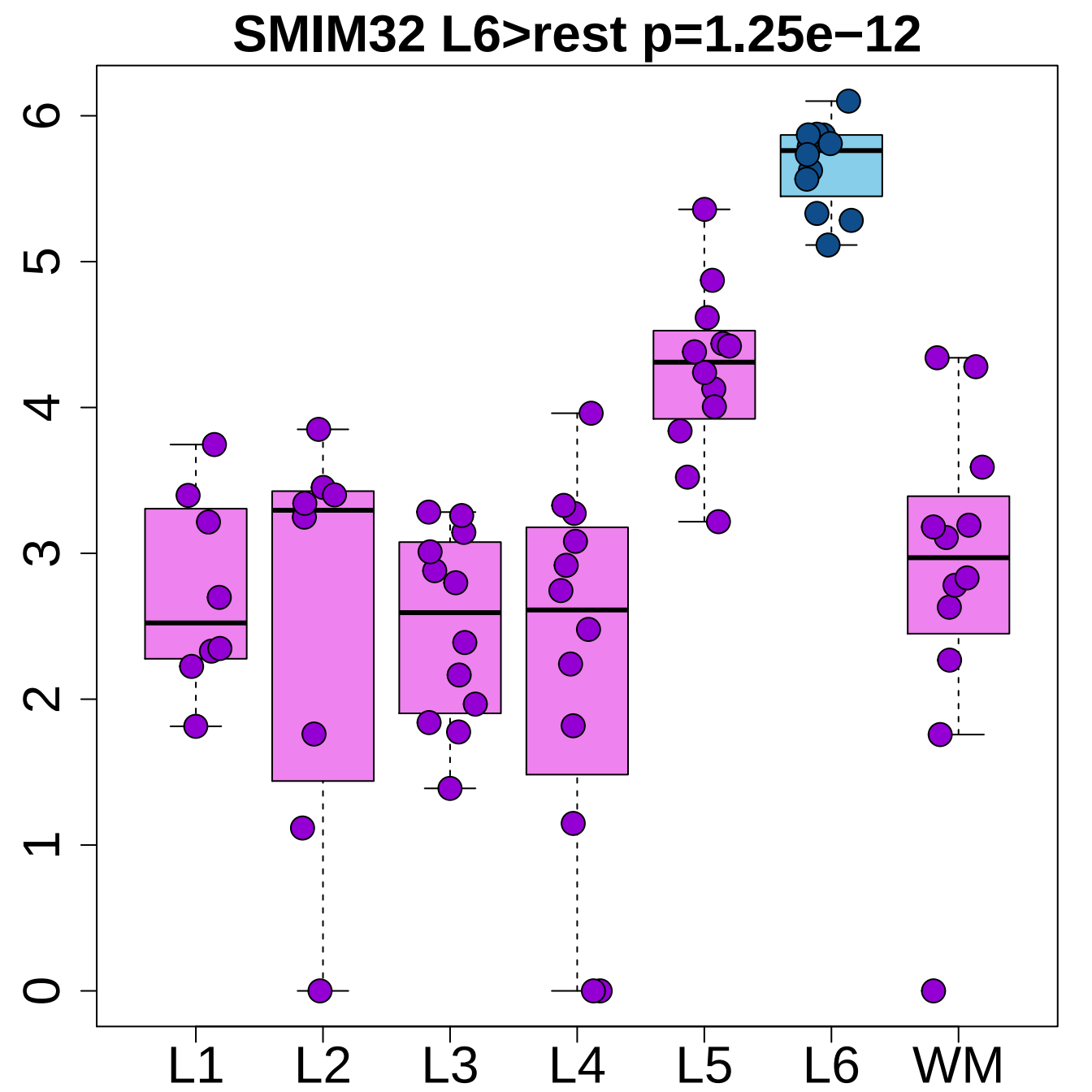
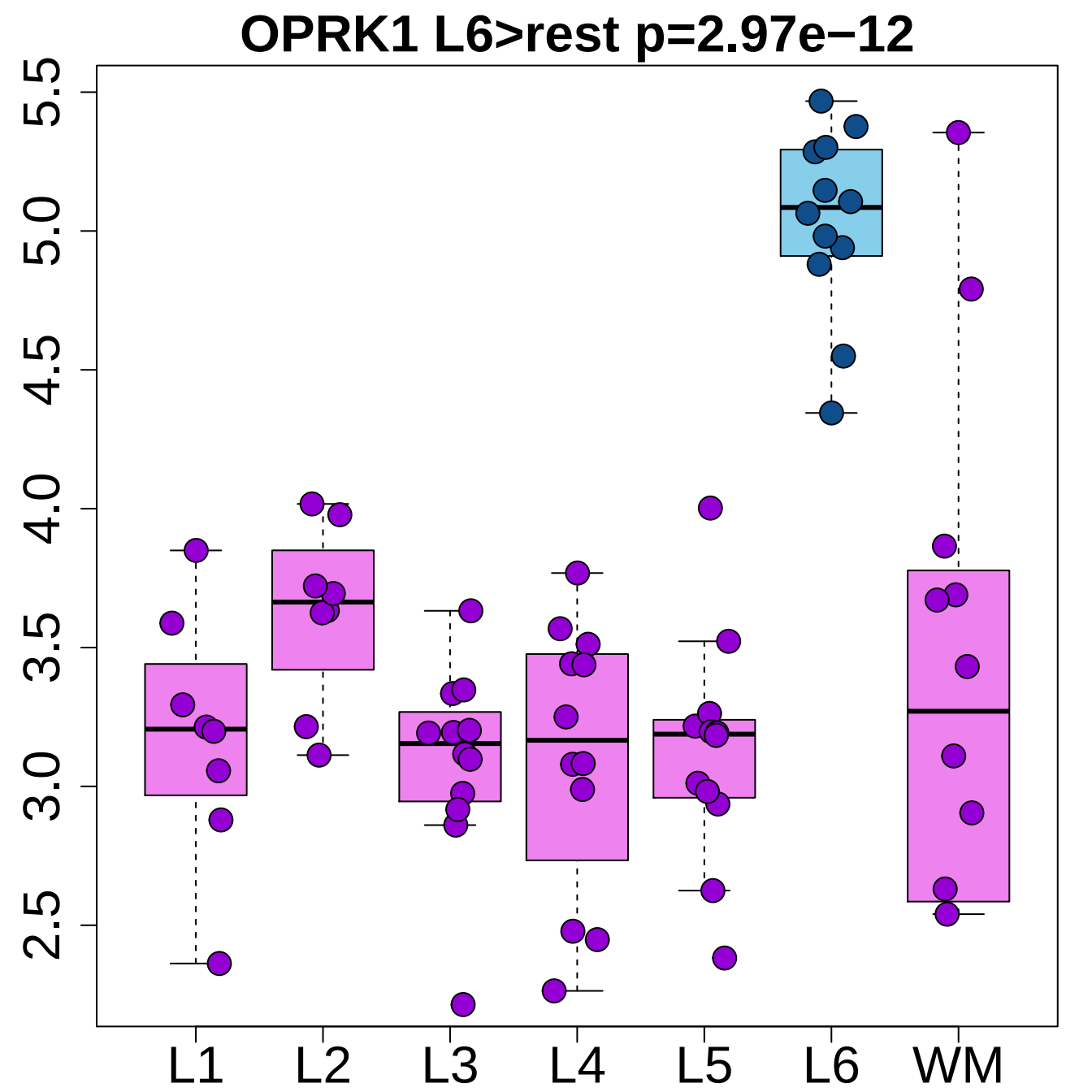
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


SMIM32 L6>rest p=1.25e−12
0
1
2
3
4
5
6
L1
L2
L3
L4
L5
L6
WM


OPRK1 L6>rest p=2.97e−12
5.5
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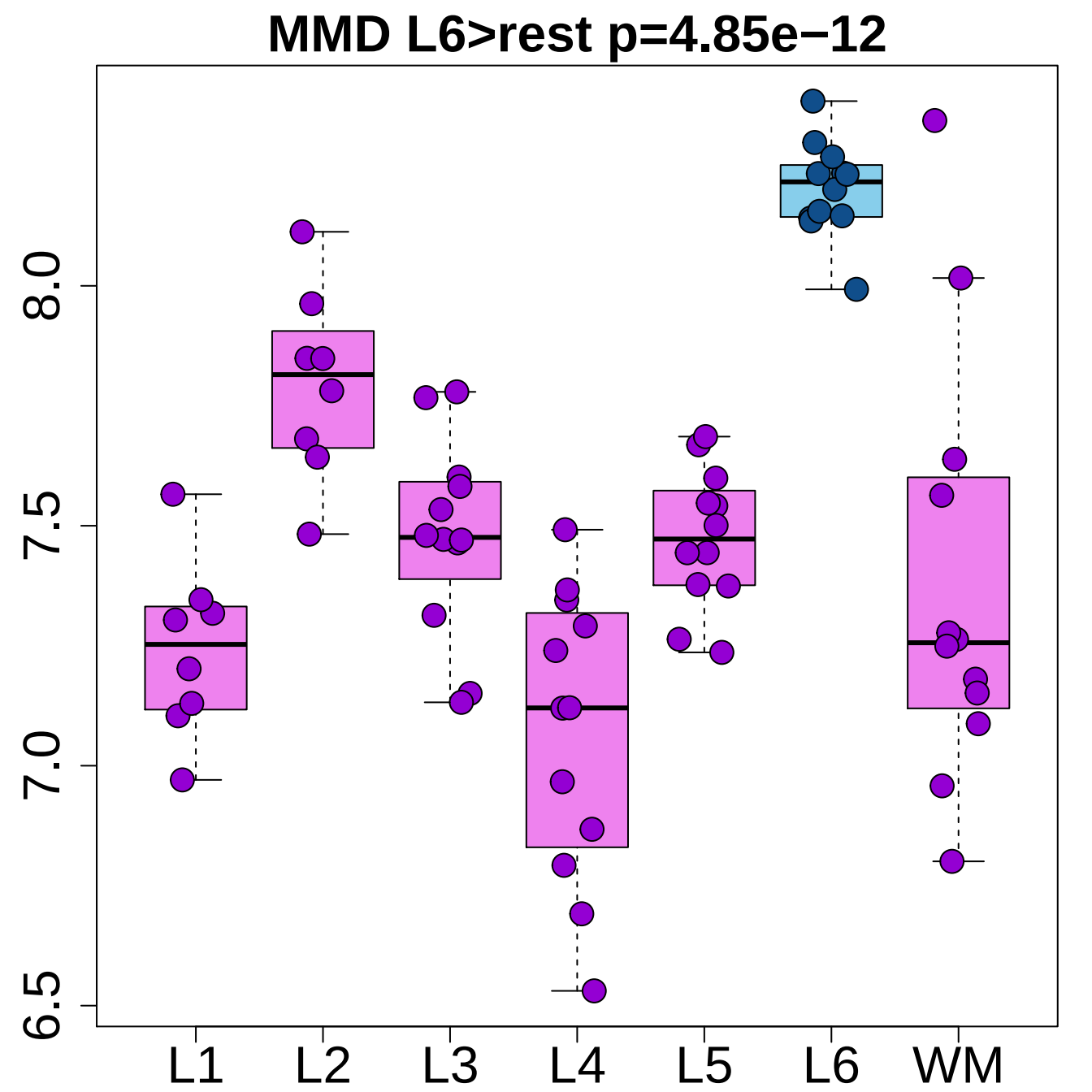
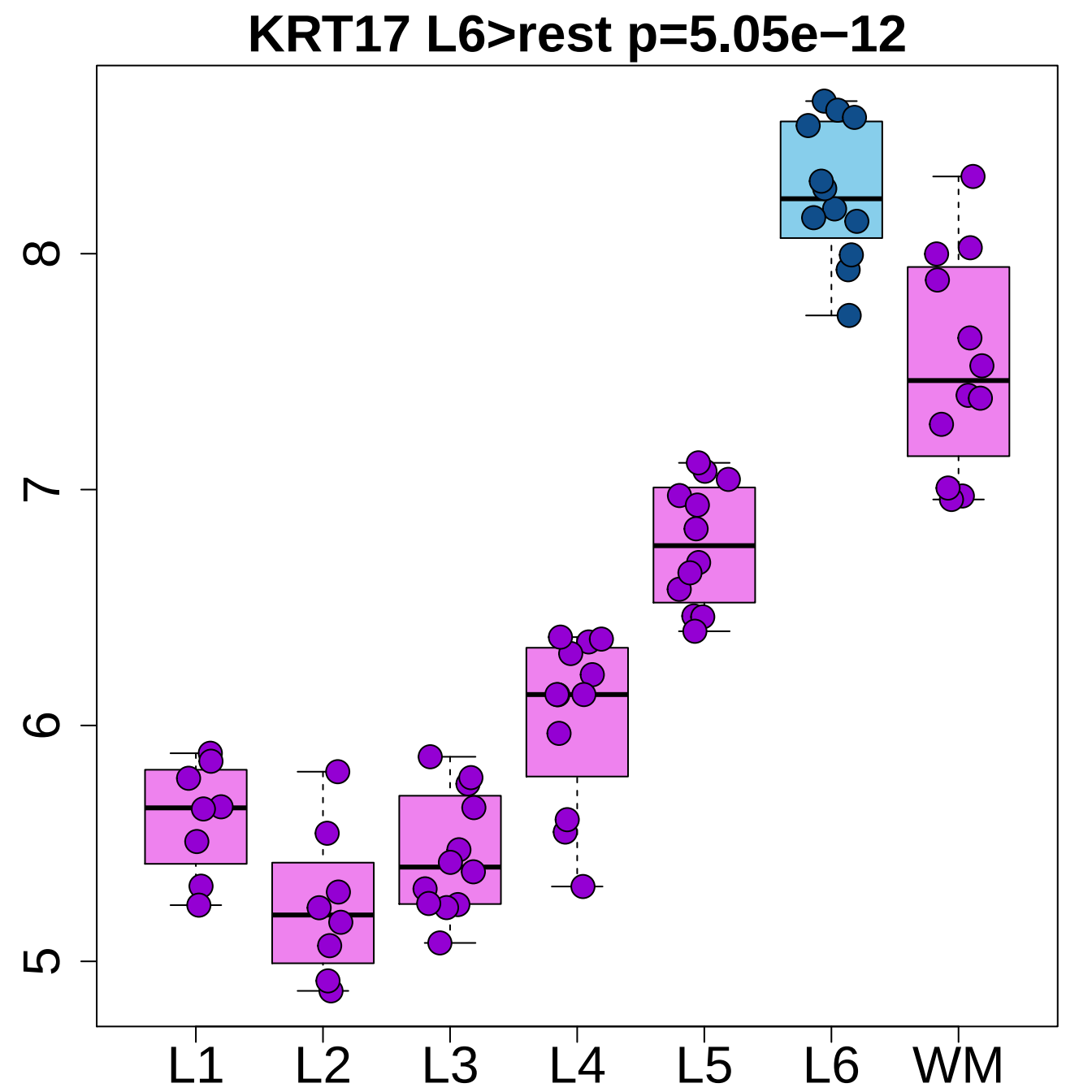
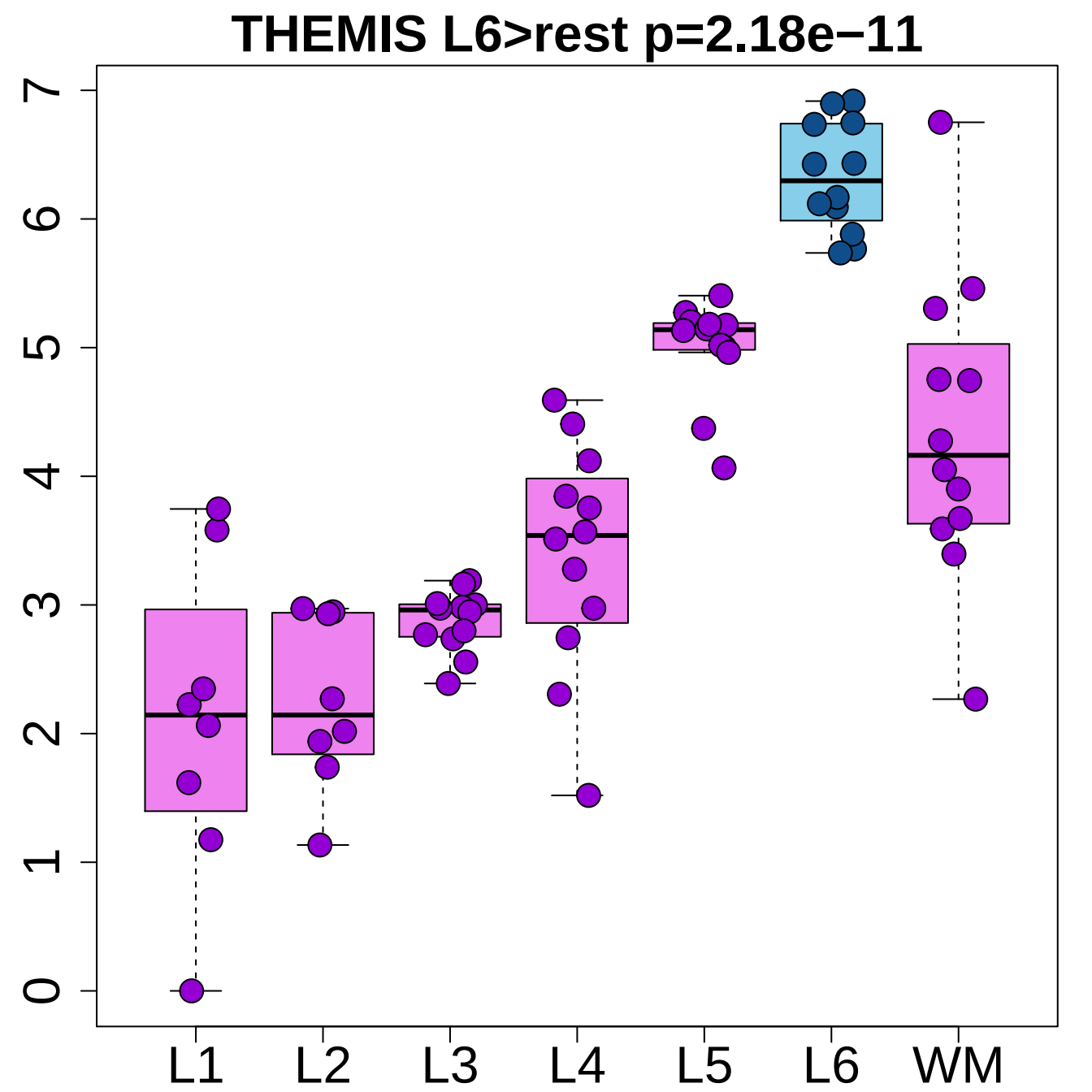
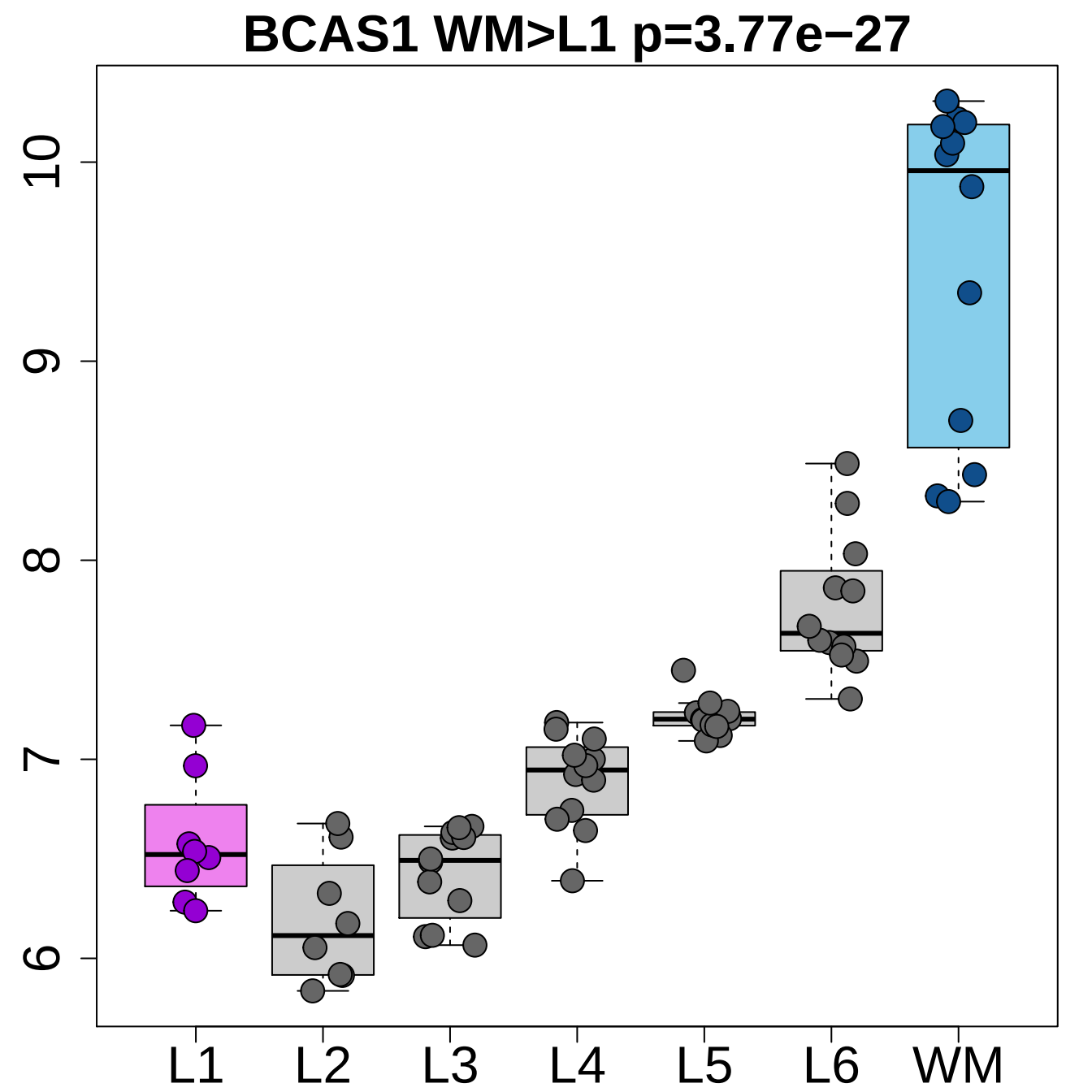
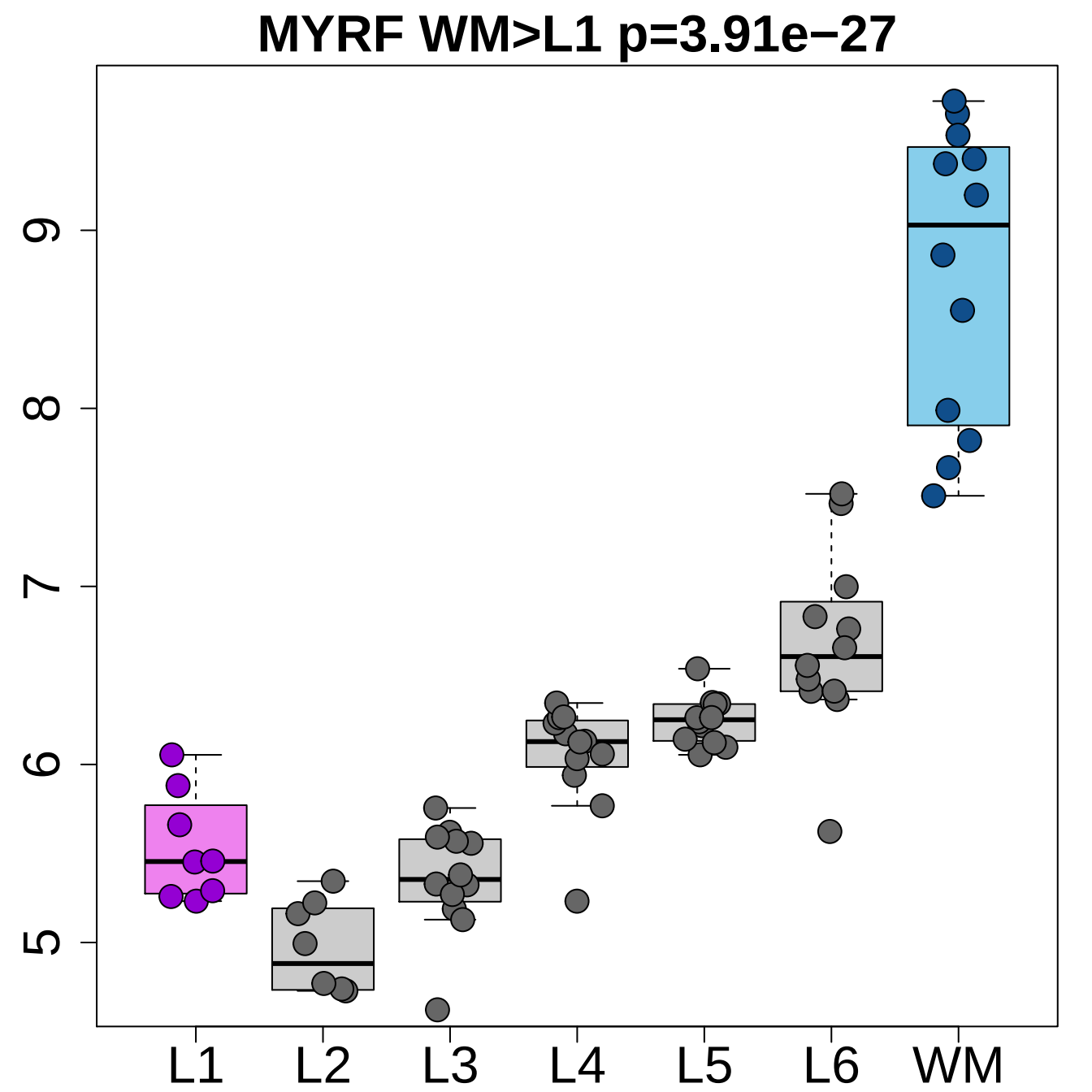
4.5
4.0
3.5
3.0
2.5
L1
L2
L3
L4
L5
L6
WM

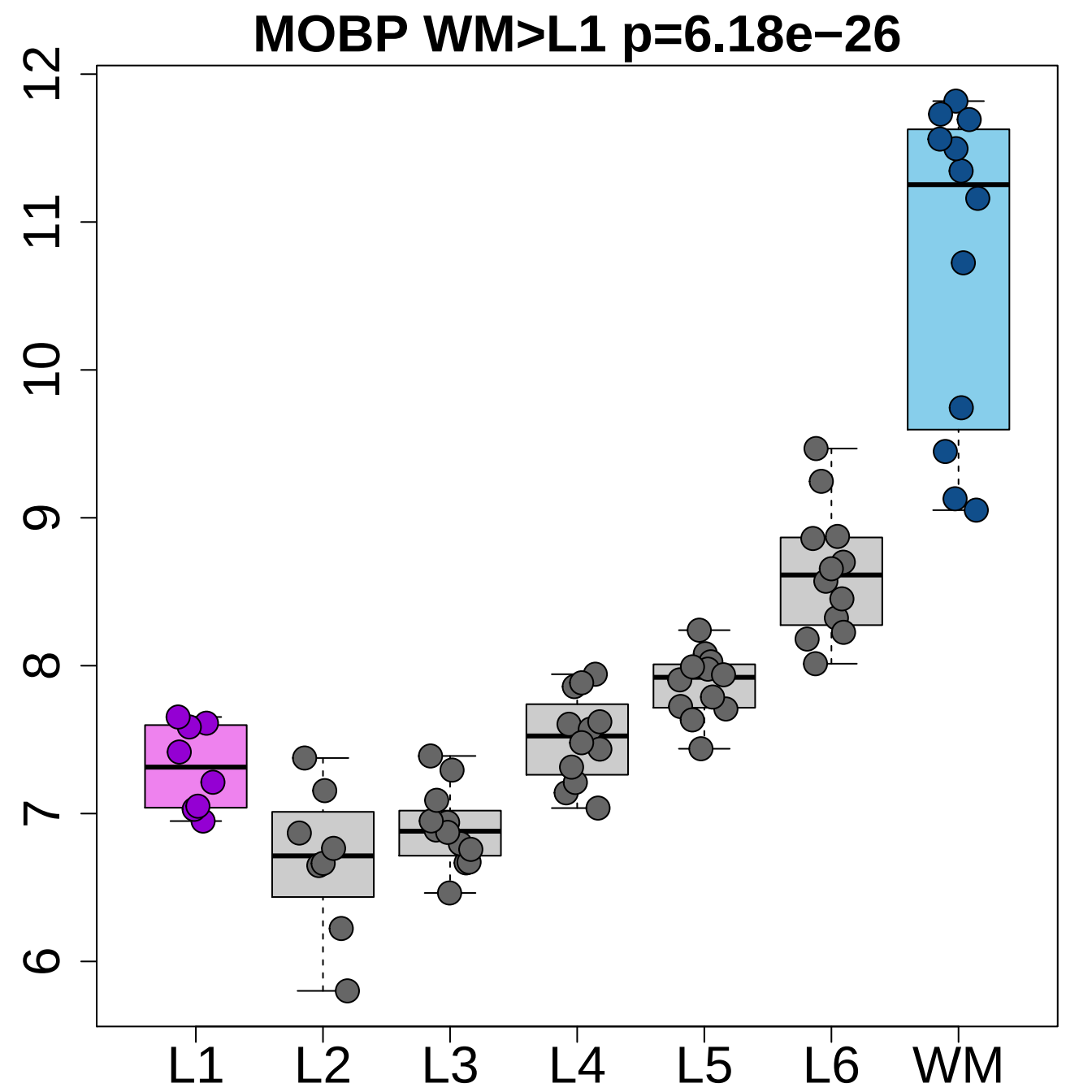

MMD L6>rest p=4.85e−12
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

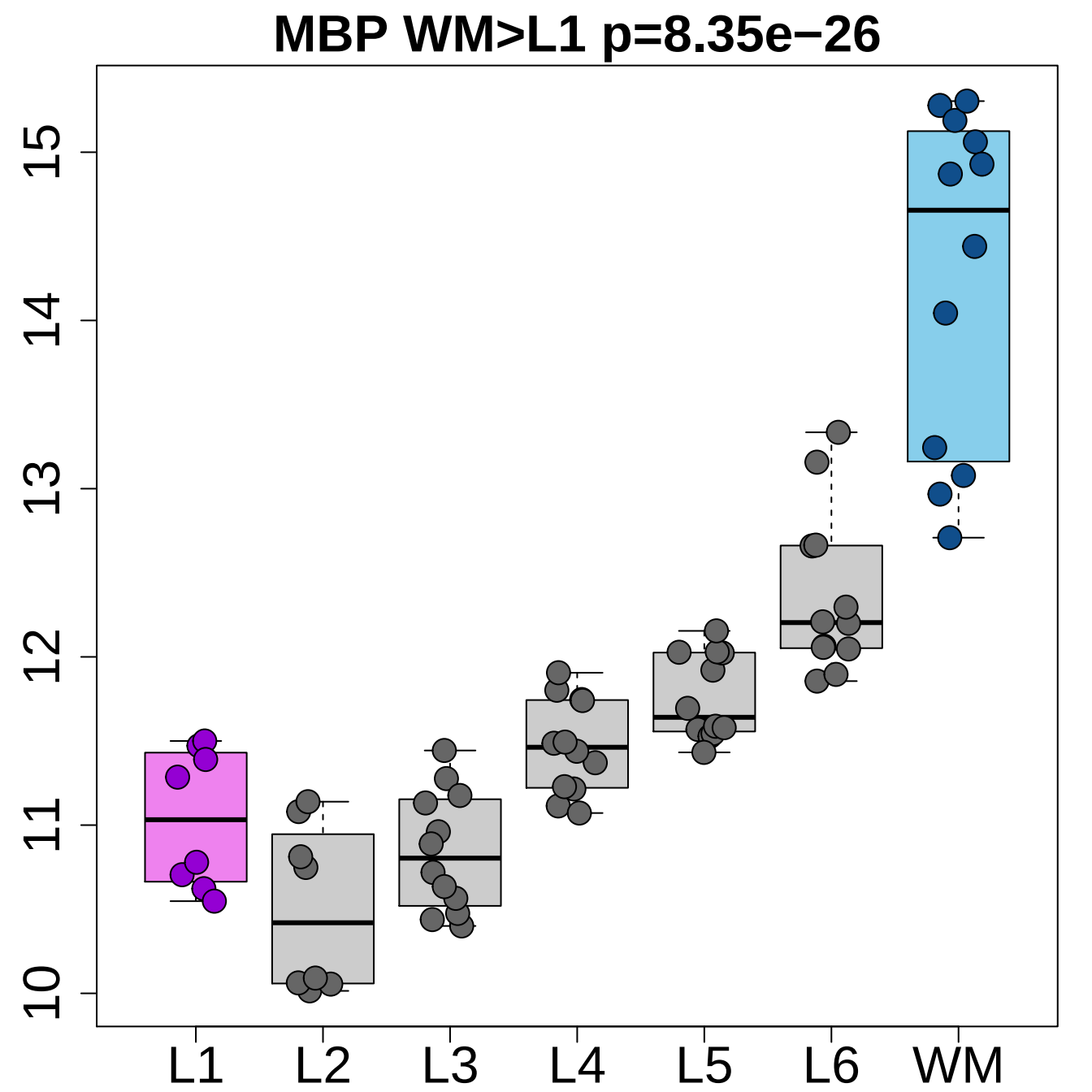

KRT17 L6>rest p=5.05e−12
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

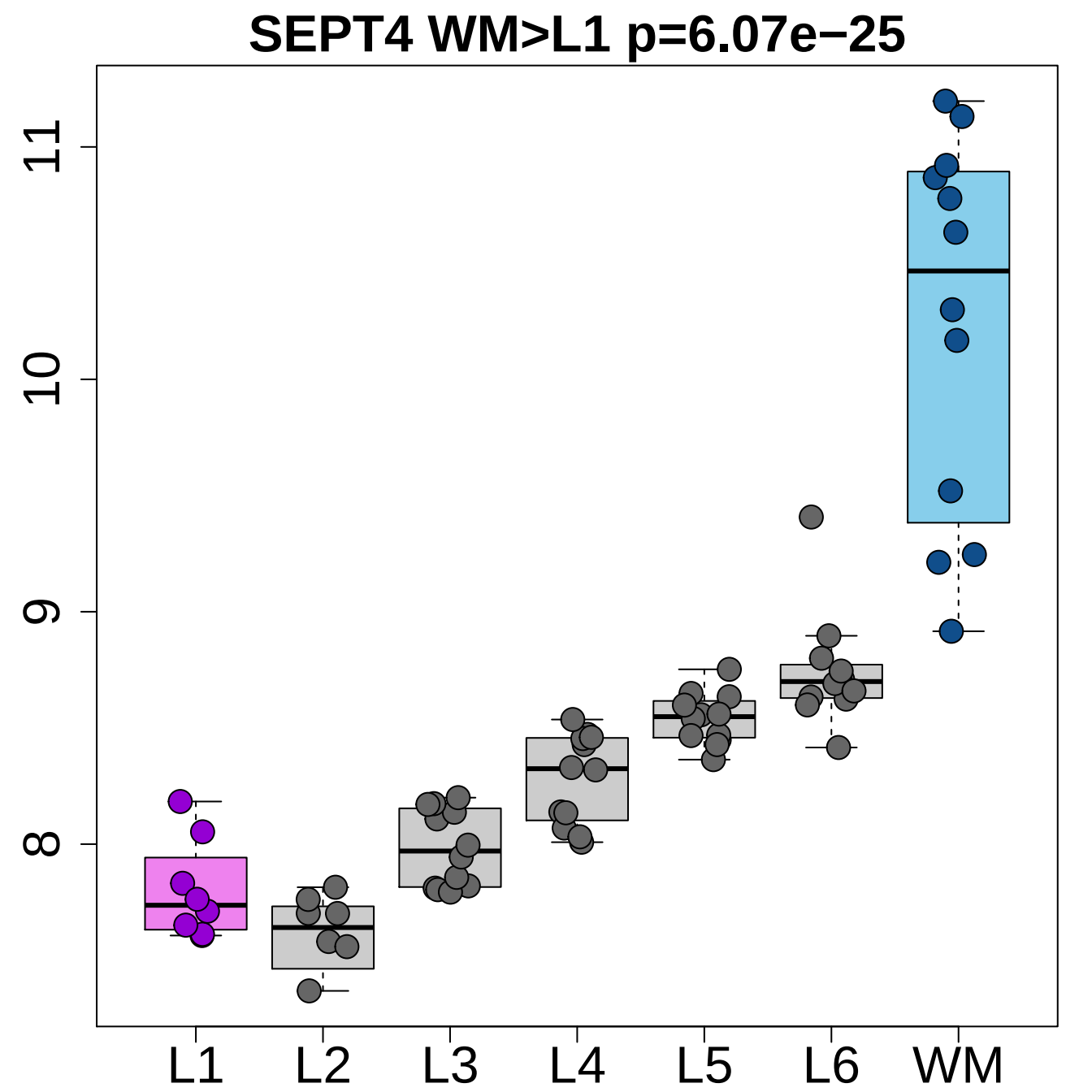

THEMIS L6>rest p=2.18e−11
0
1
2
3
4
5
6
7
L1
L2
L3
L4
L5
L6
WM

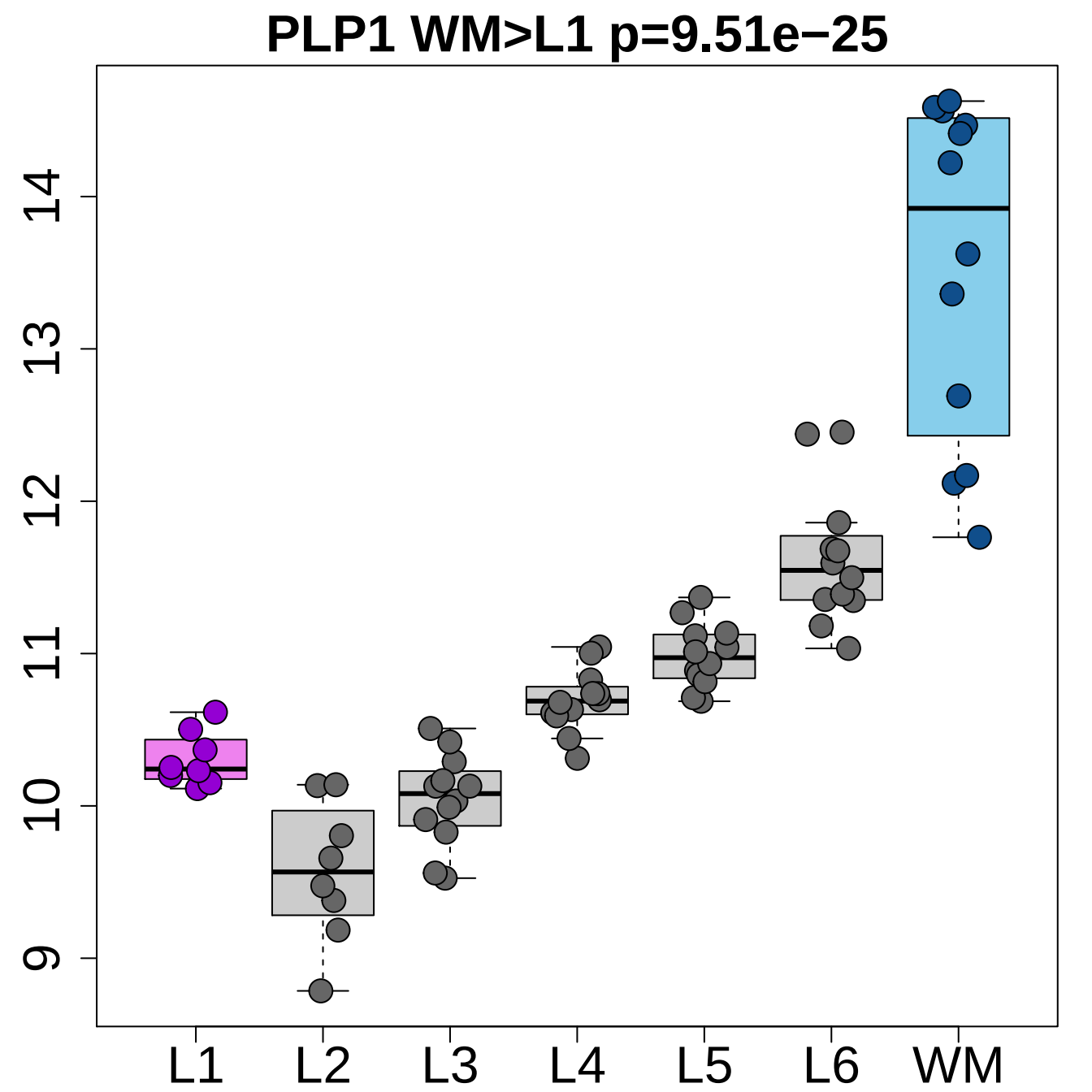

BCAS1 WM>L1 p=3.77e−27
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

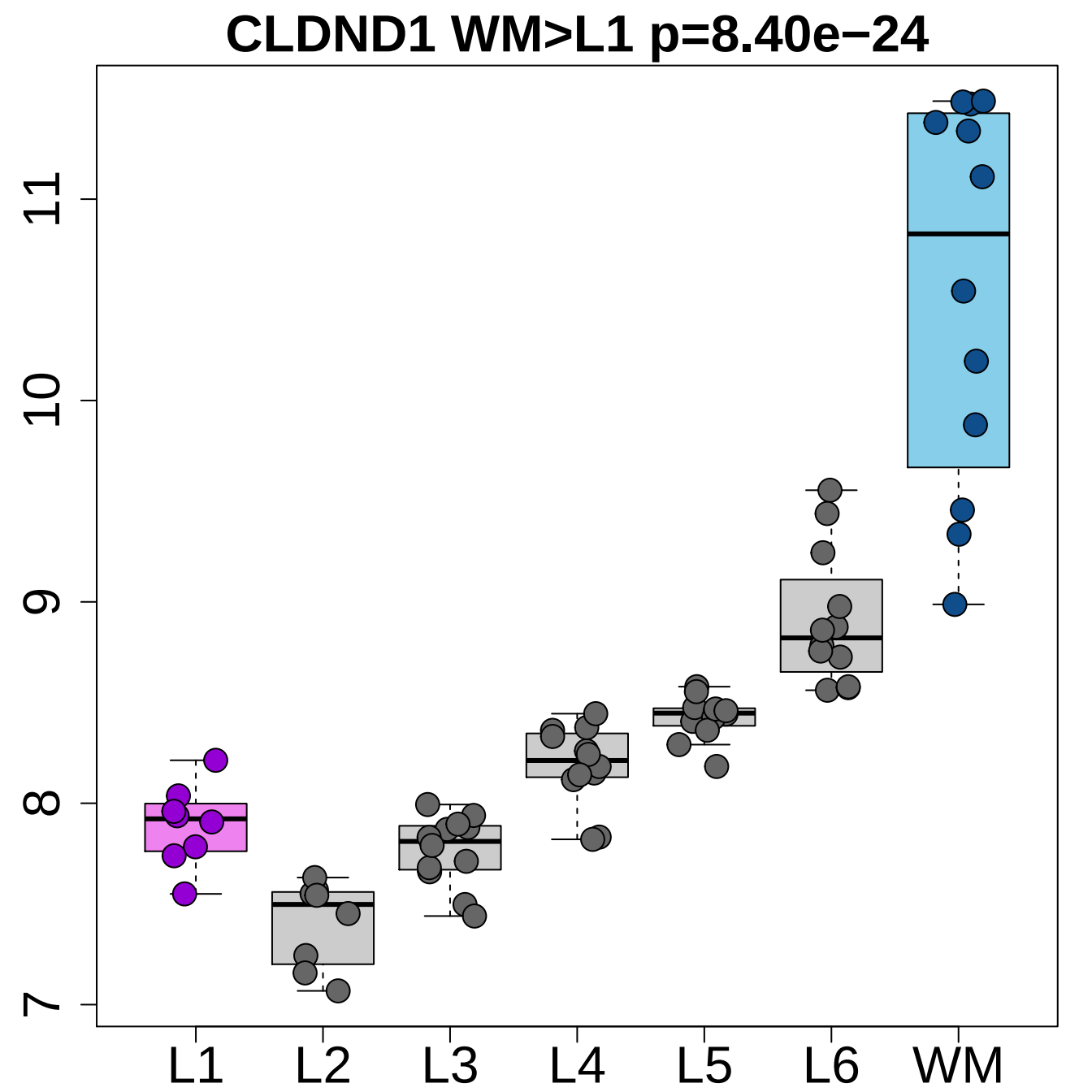

MYRF WM>L1 p=3.91e−27
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

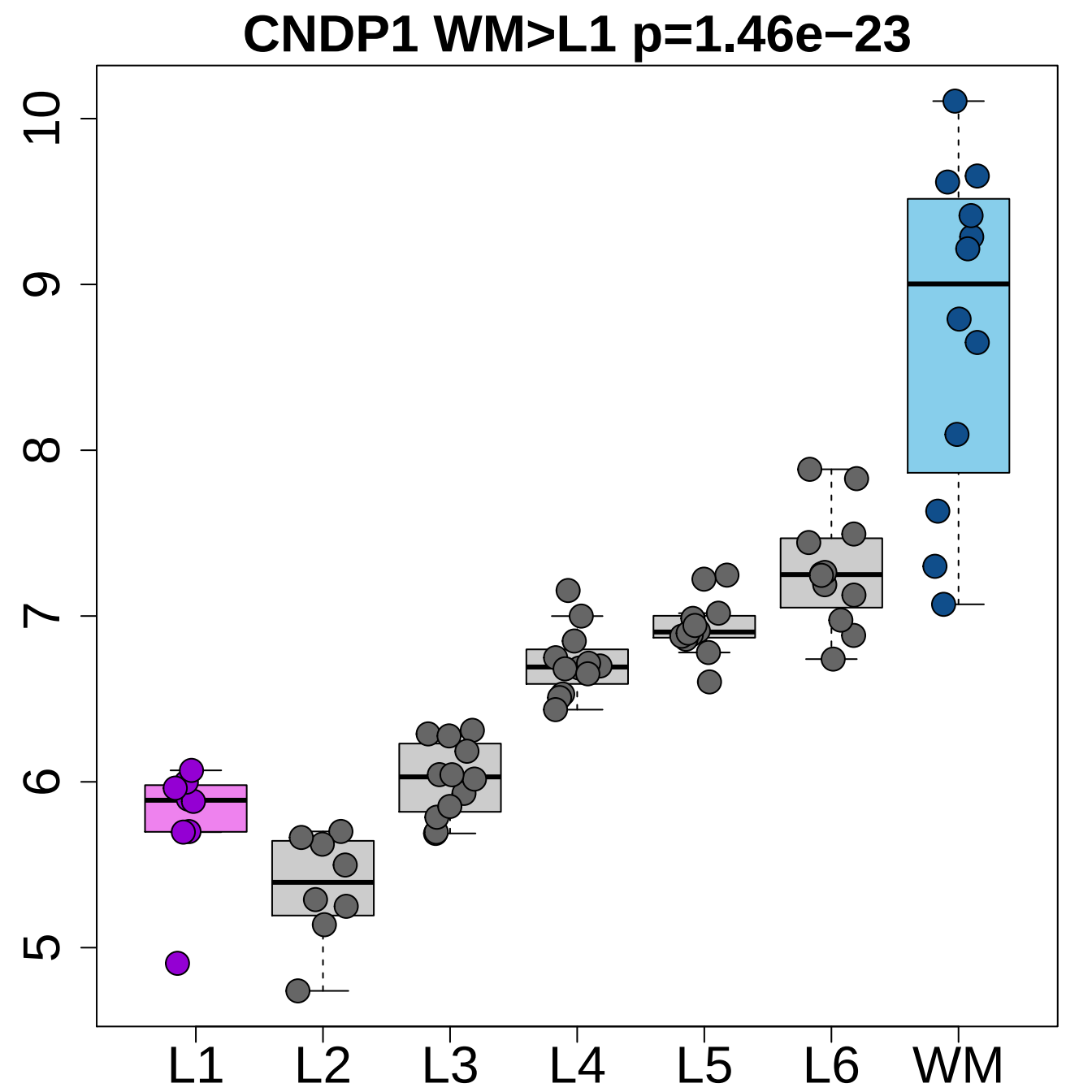

MOBP WM>L1 p=6.18e−26
12
11
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

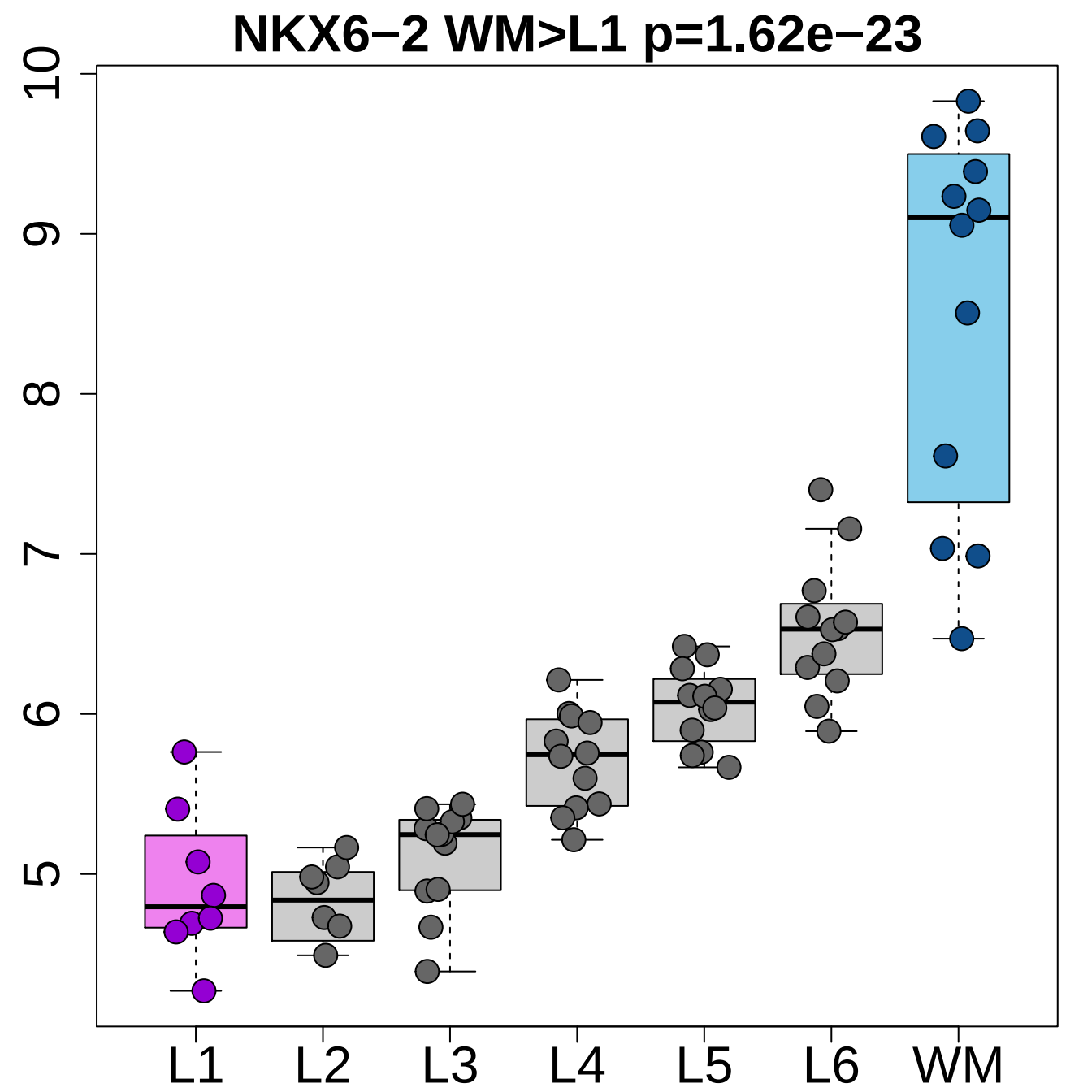

MBP WM>L1 p=8.35e−26
15
14
13
12
11
10
L1
L2
L3
L4
L5
L6
WM


SEPT4 WM>L1 p=6.07e−25
11
10
9
8
L1
L2
L3
L4
L5
L6
WM


PLP1 WM>L1 p=9.51e−25
14
13
12
11
10
9
L1
L2
L3
L4
L5
L6
WM


CLDND1 WM>L1 p=8.40e−24
11
10
9
8
7
L1
L2
L3
L4
L5
L6
WM


CNDP1 WM>L1 p=1.46e−23
10
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


NKX6−2 WM>L1 p=1.62e−23
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7
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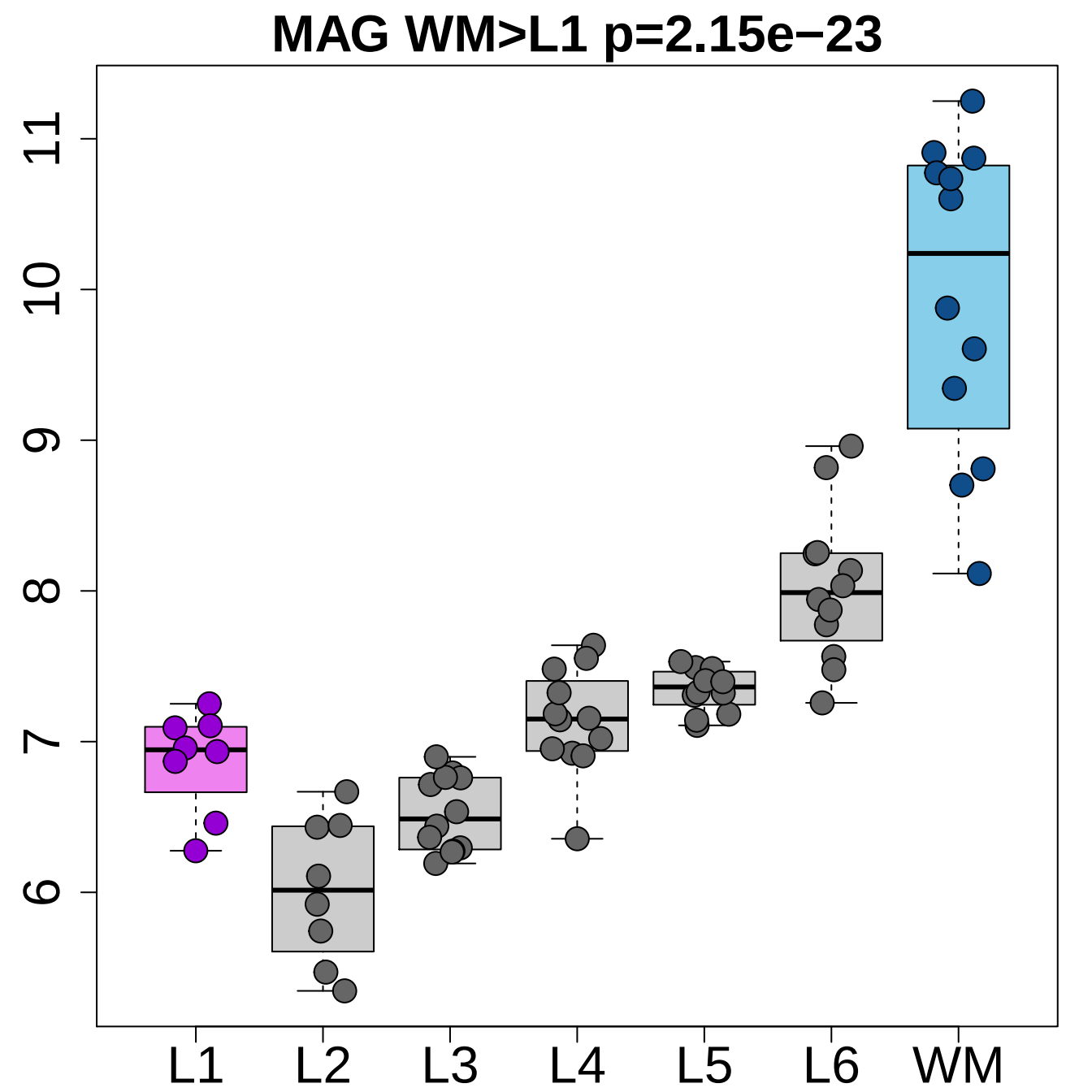
5
L1
L2
L3
L4
L5
L6
WM


MAG WM>L1 p=2.15e−23
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8
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L1
L2
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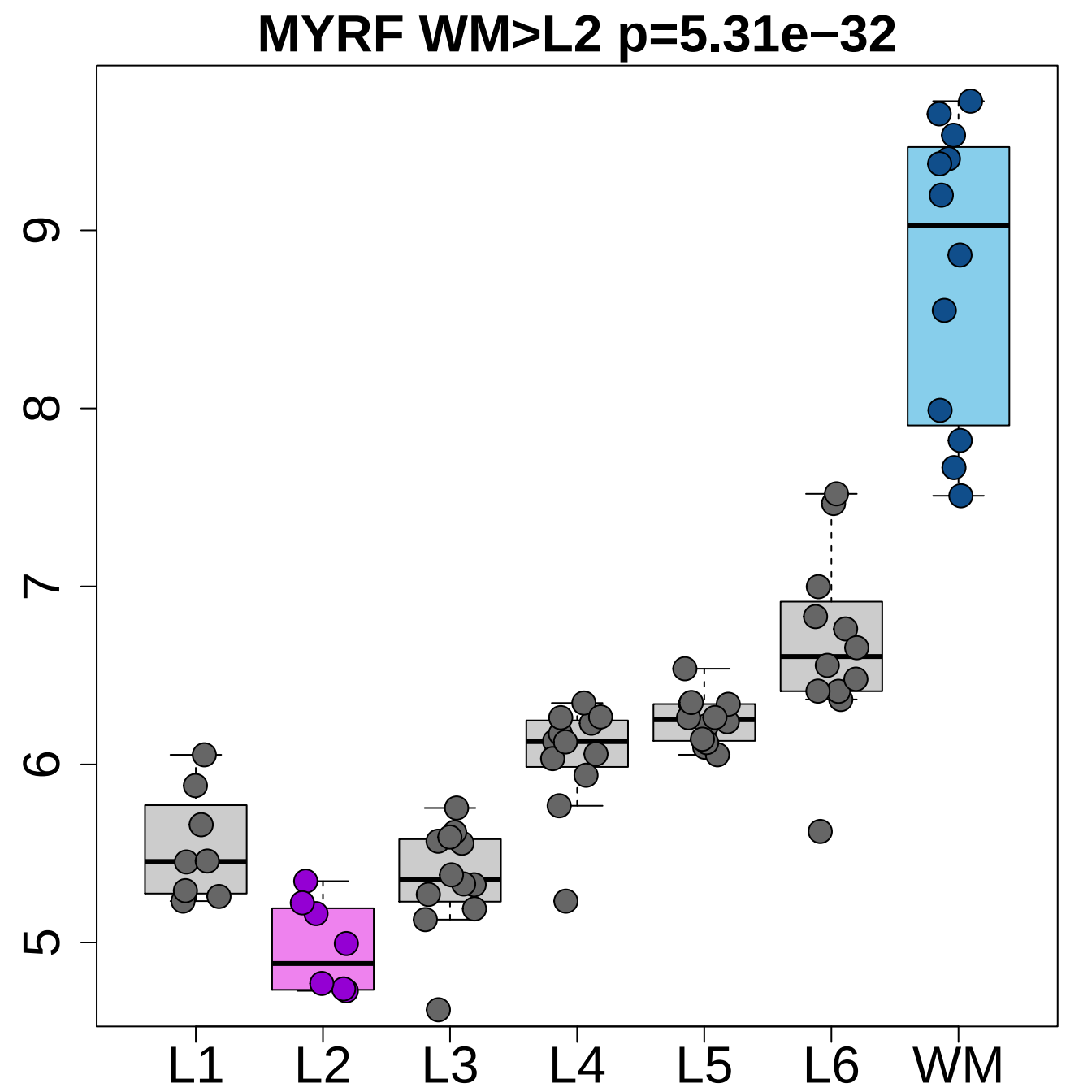
L5
L6
WM


MYRF WM>L2 p=5.31e−32
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6
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L1
L2
L3
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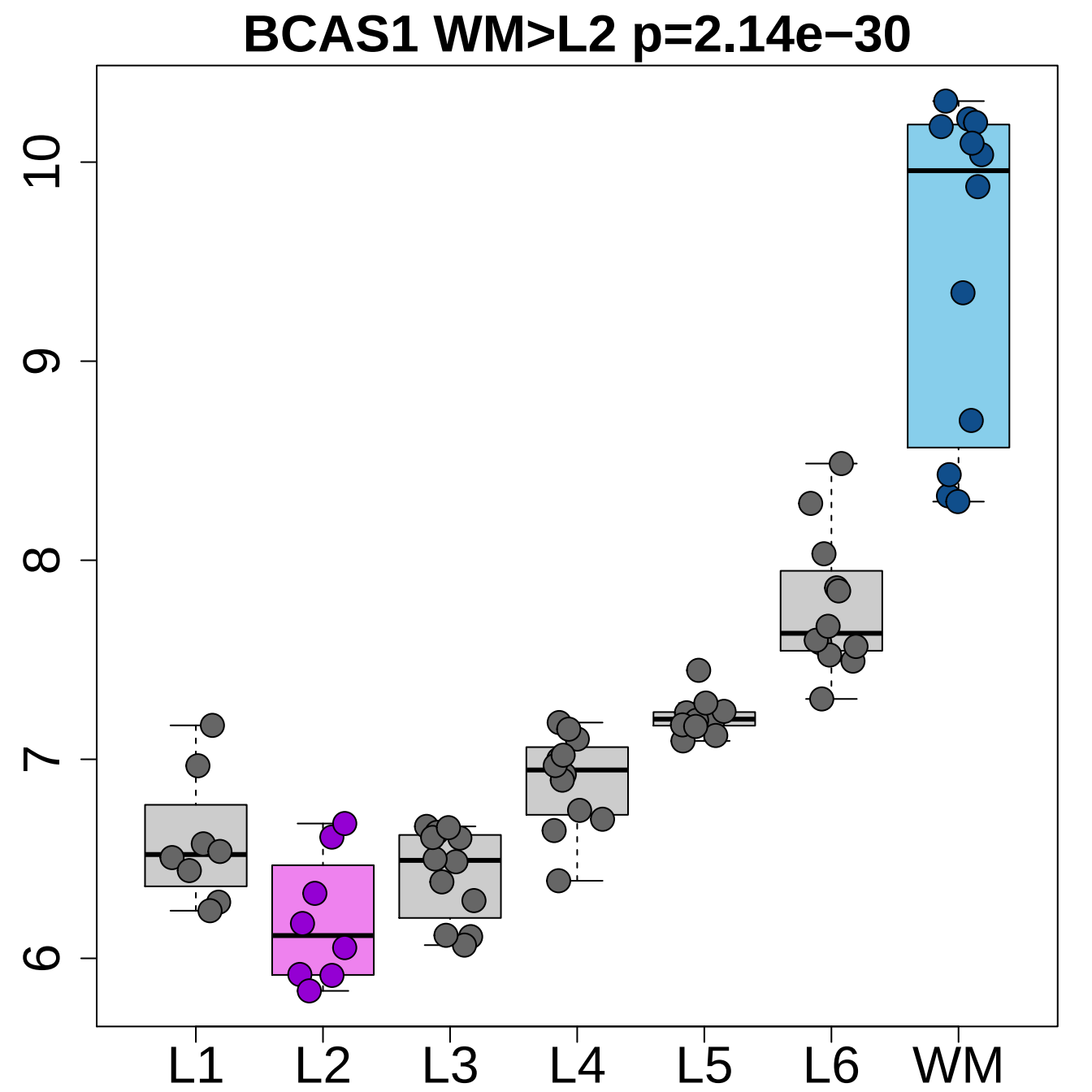
L5
L6
WM


BCAS1 WM>L2 p=2.14e−30
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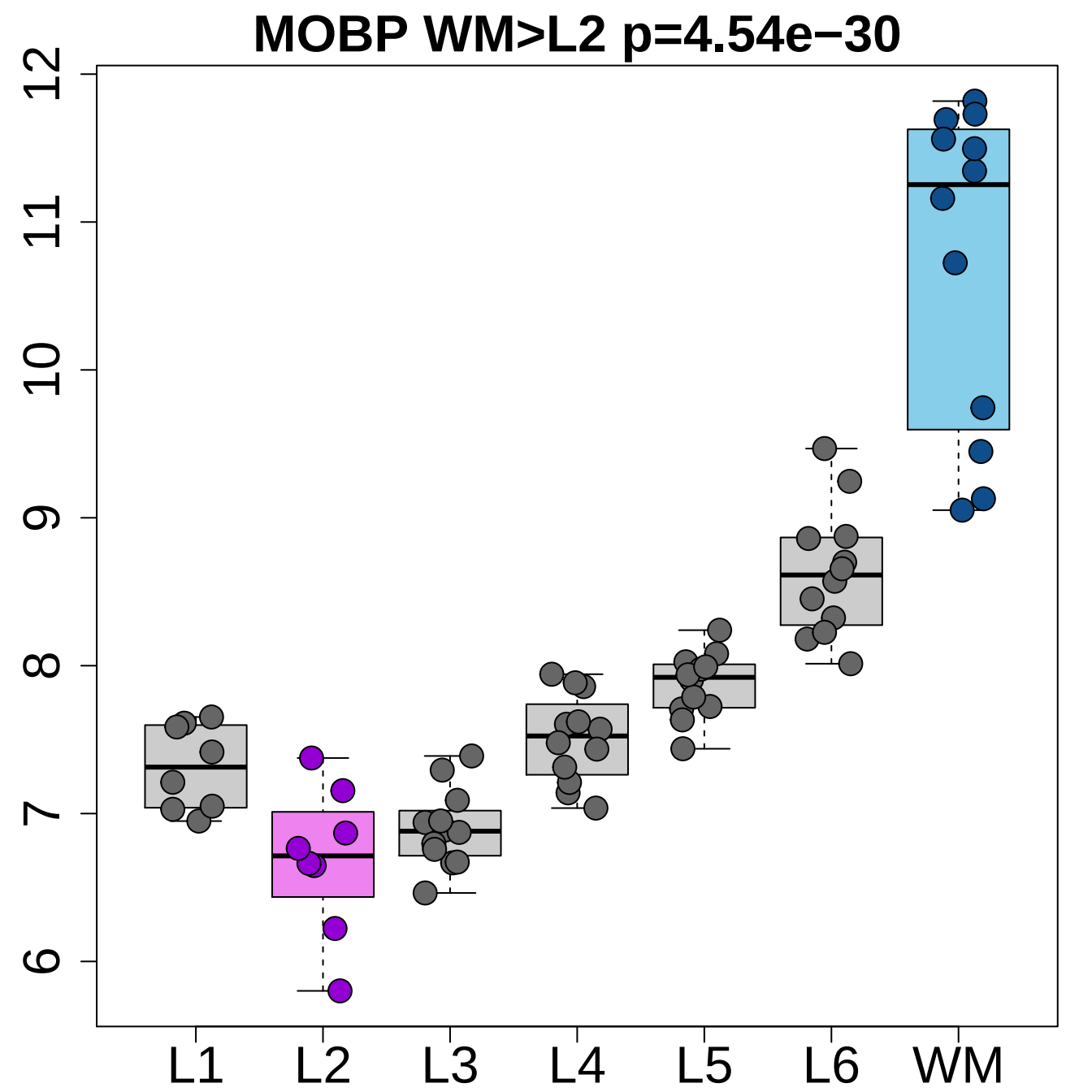
8
7
6
L1
L2
L3
L4
L5
L6
WM


MOBP WM>L2 p=4.54e−30
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9
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L1
L2
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L4
L5
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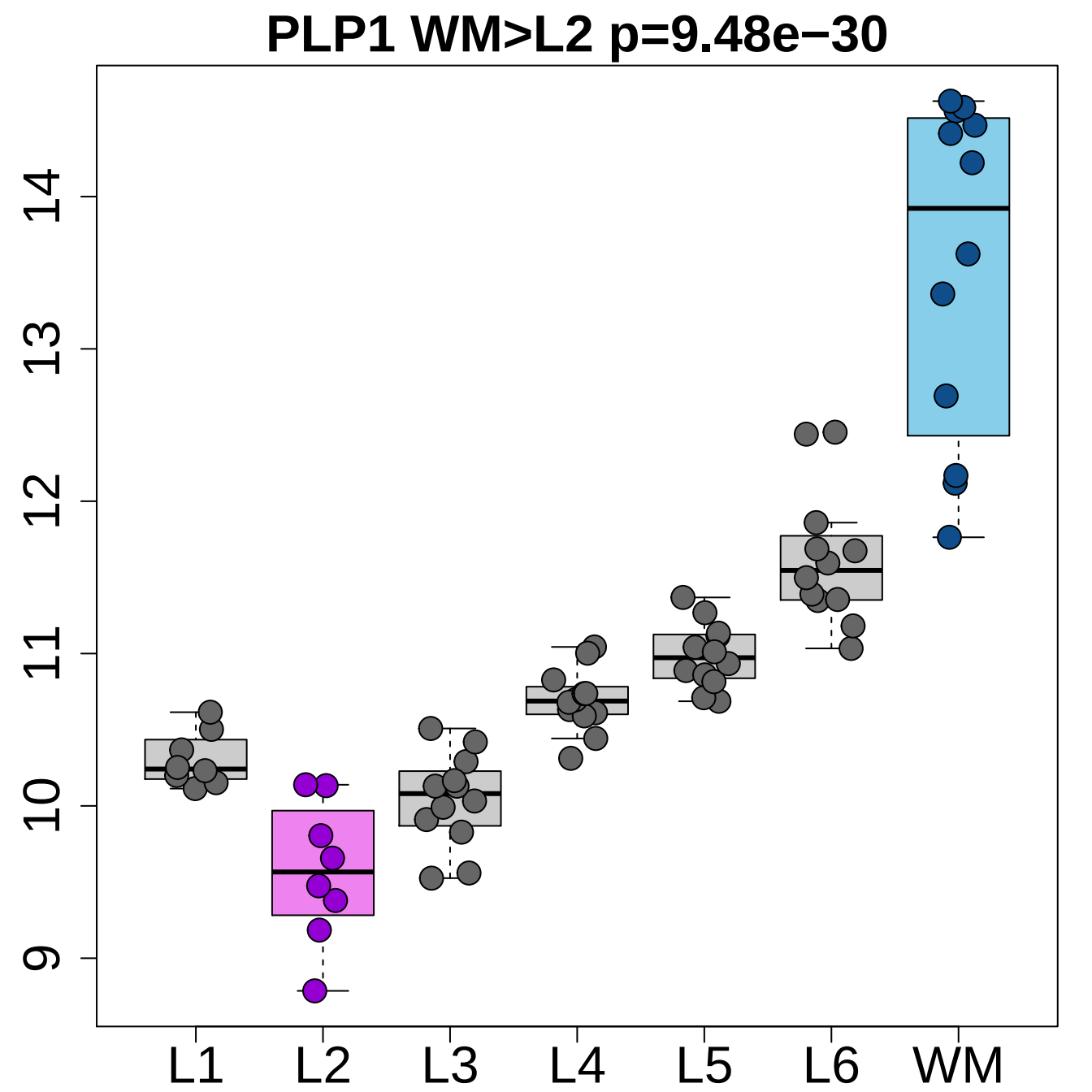
WM


PLP1 WM>L2 p=9.48e−30
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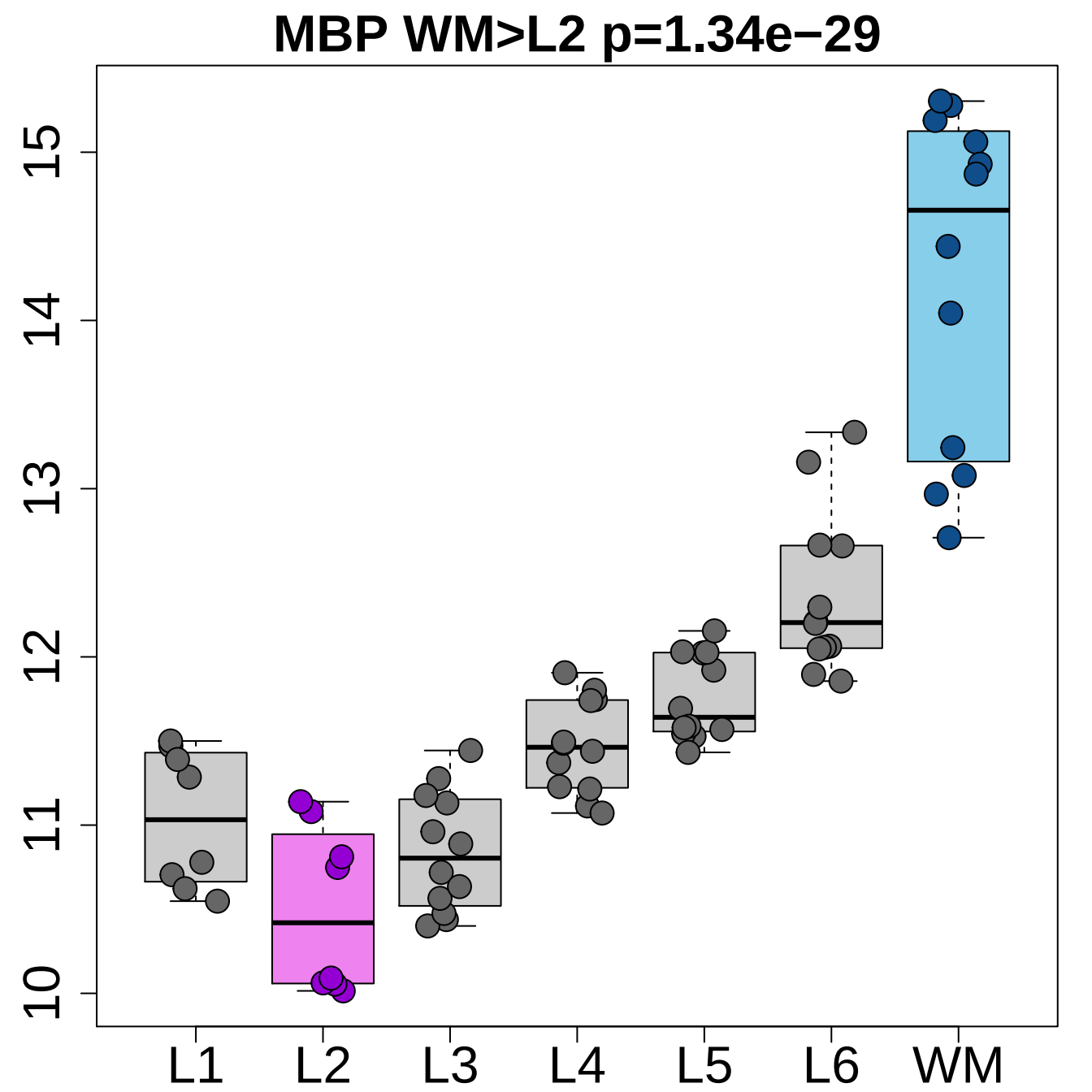
13
12
11
10
9
L1
L2
L3
L4
L5
L6
WM


MBP WM>L2 p=1.34e−29
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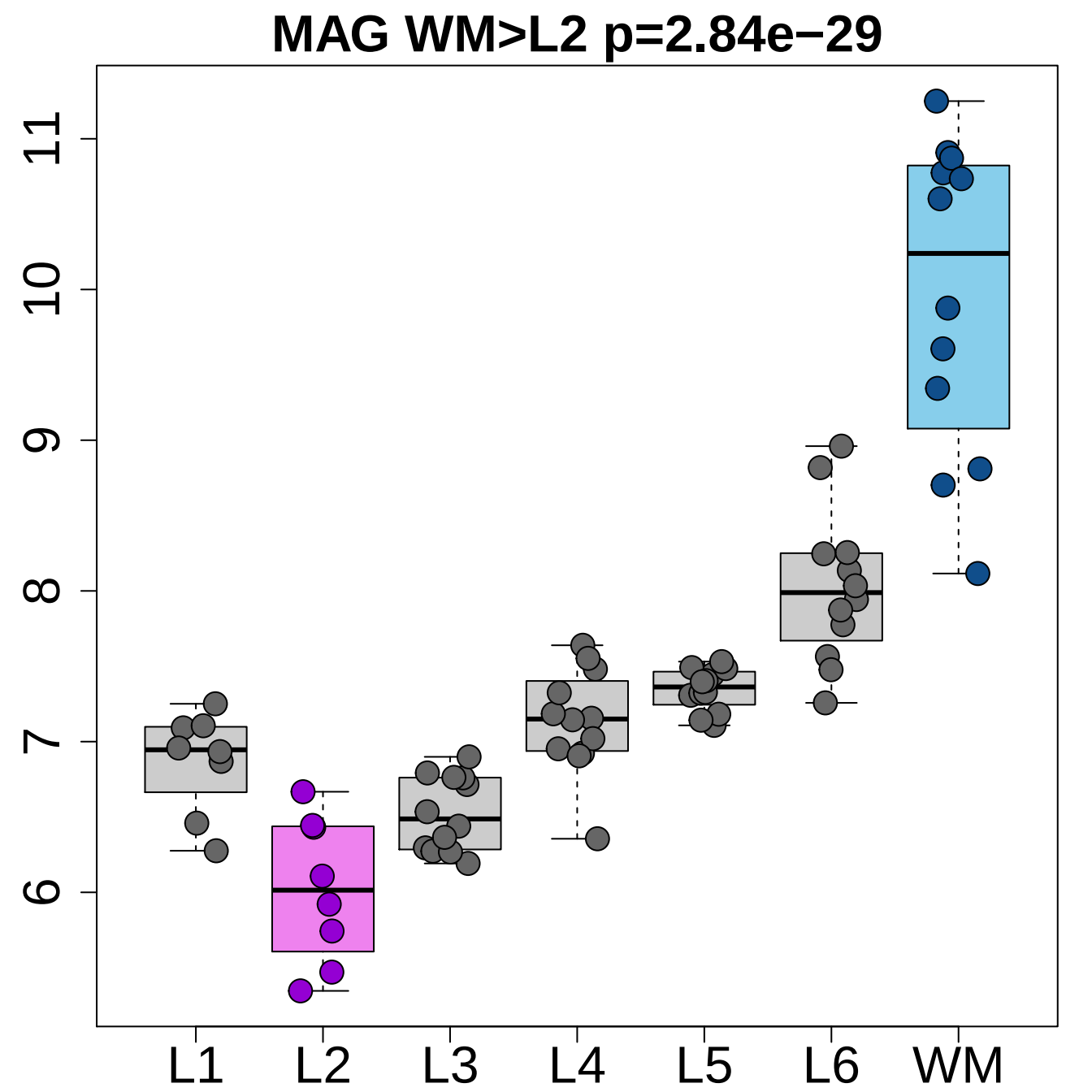
14
13
12
11
10
L1
L2
L3
L4
L5
L6
WM


MAG WM>L2 p=2.84e−29
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10
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8
7
6
L1
L2
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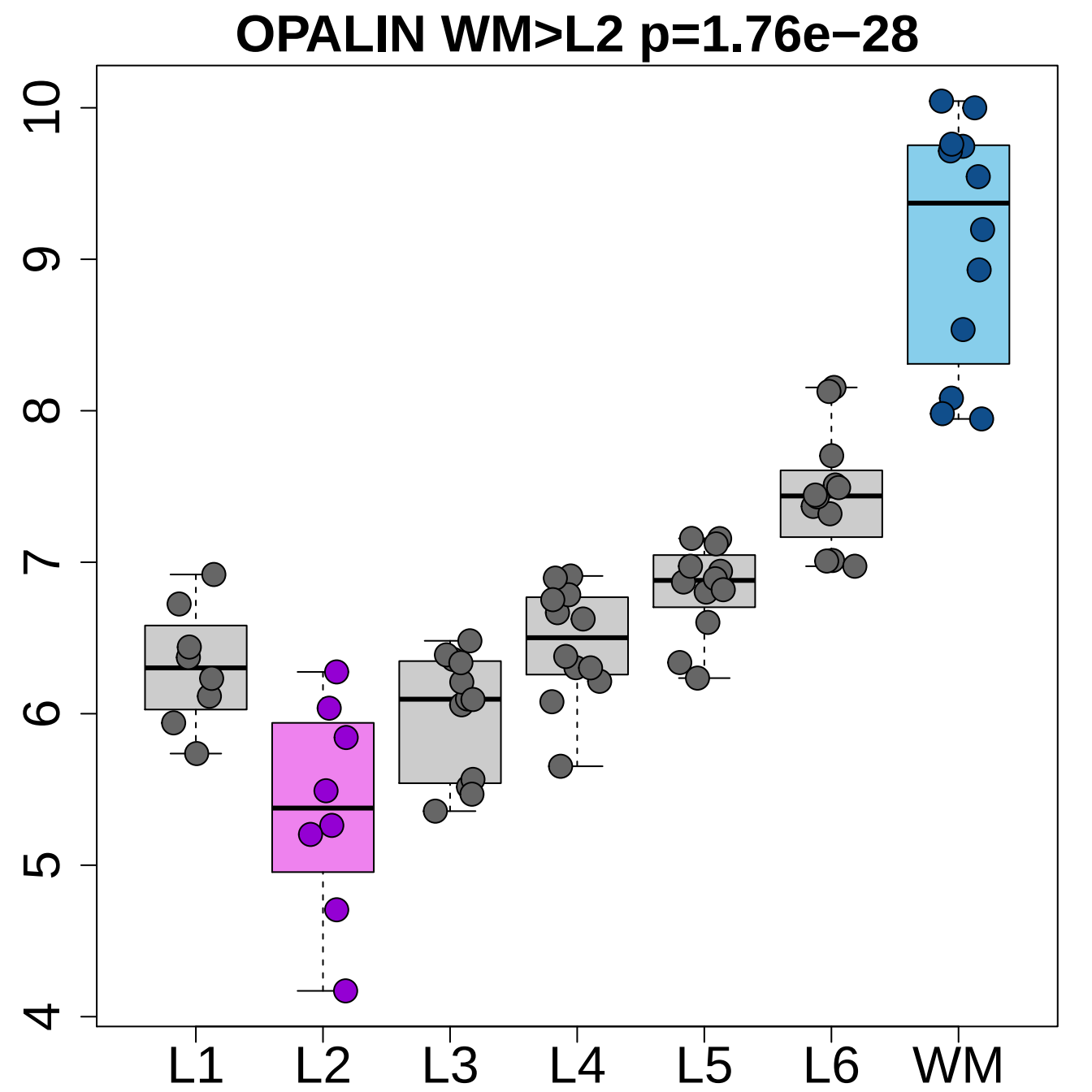
L5
L6
WM


OPALIN WM>L2 p=1.76e−28
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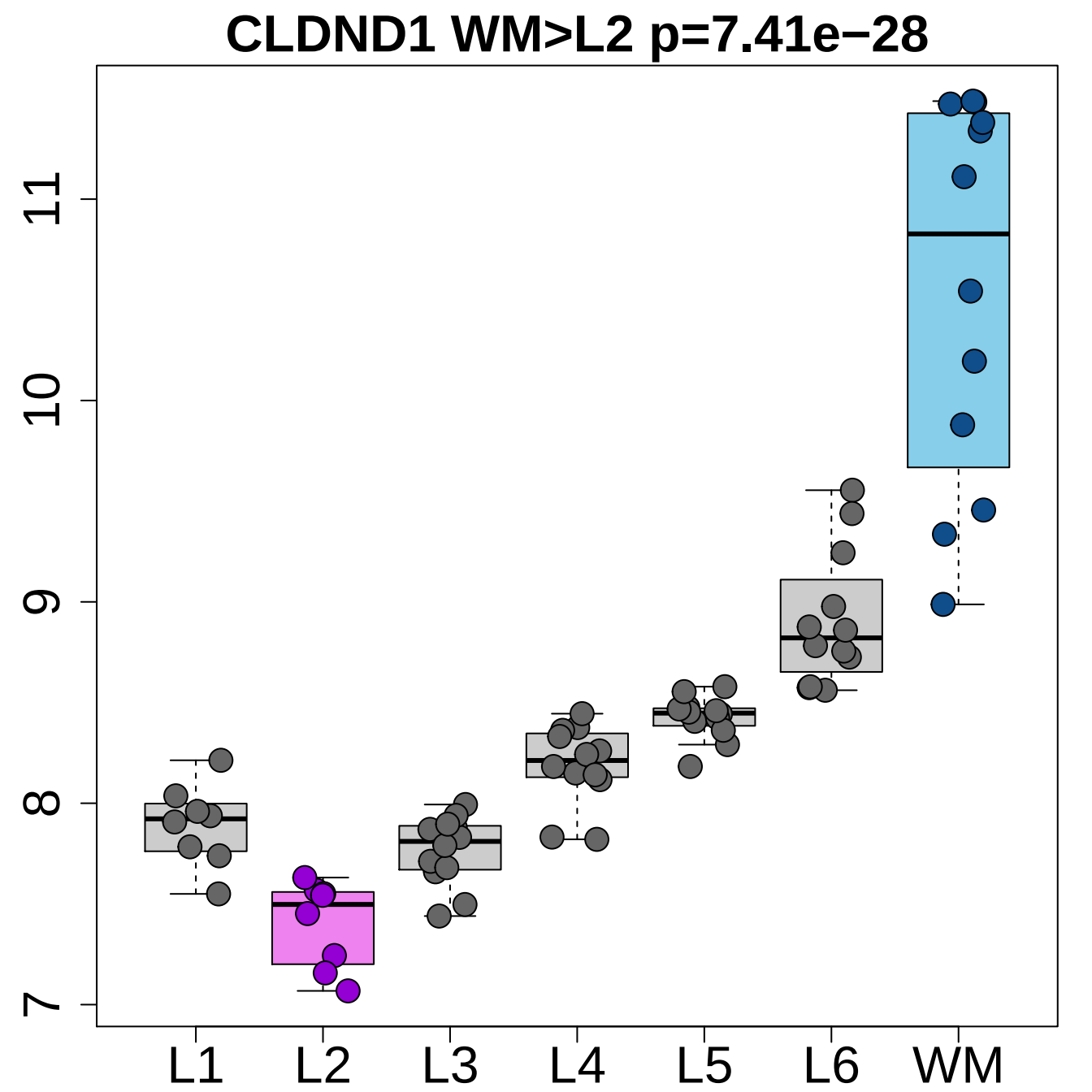
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


CLDND1 WM>L2 p=7.41e−28
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10
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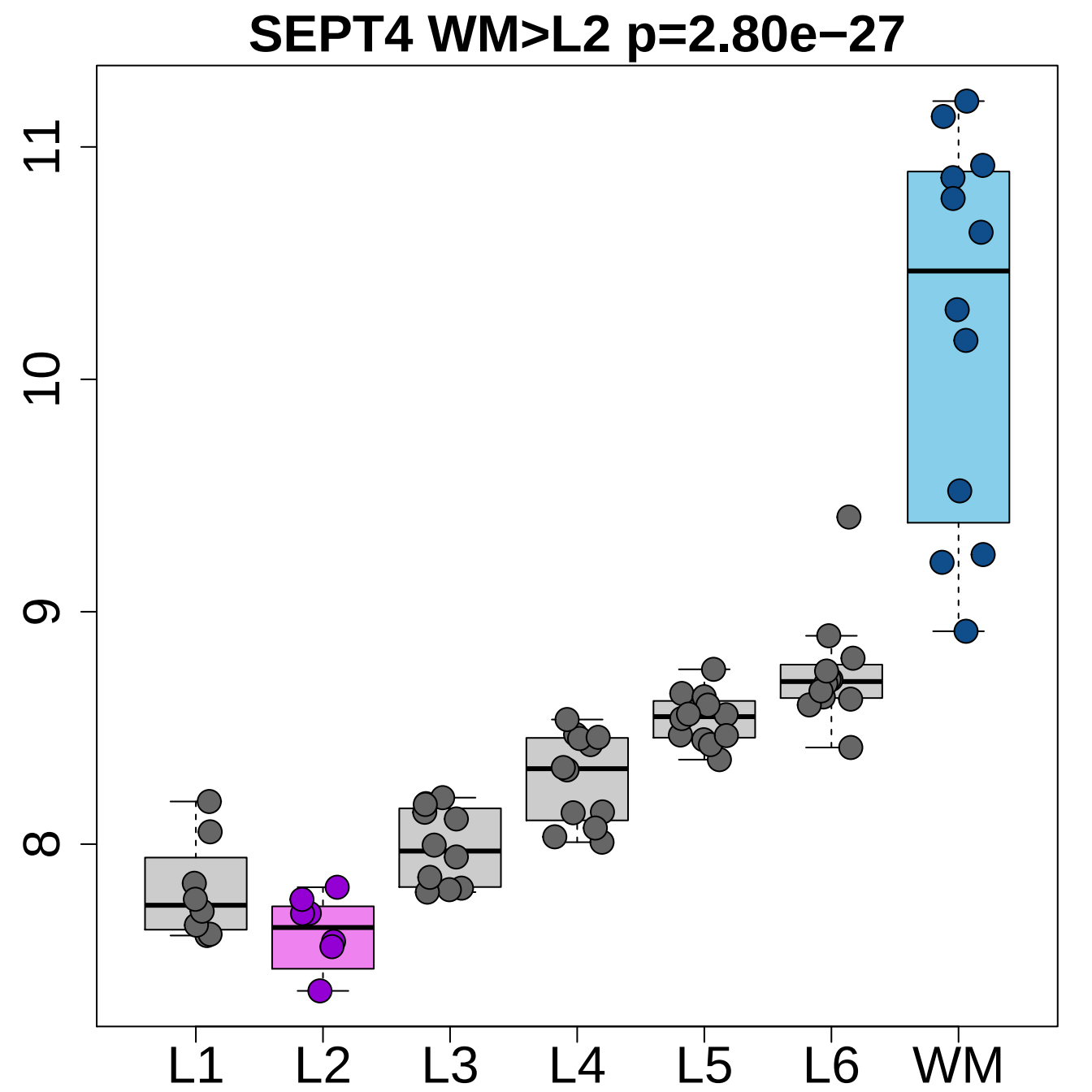
8
7
L1
L2
L3
L4
L5
L6
WM


SEPT4 WM>L2 p=2.80e−27
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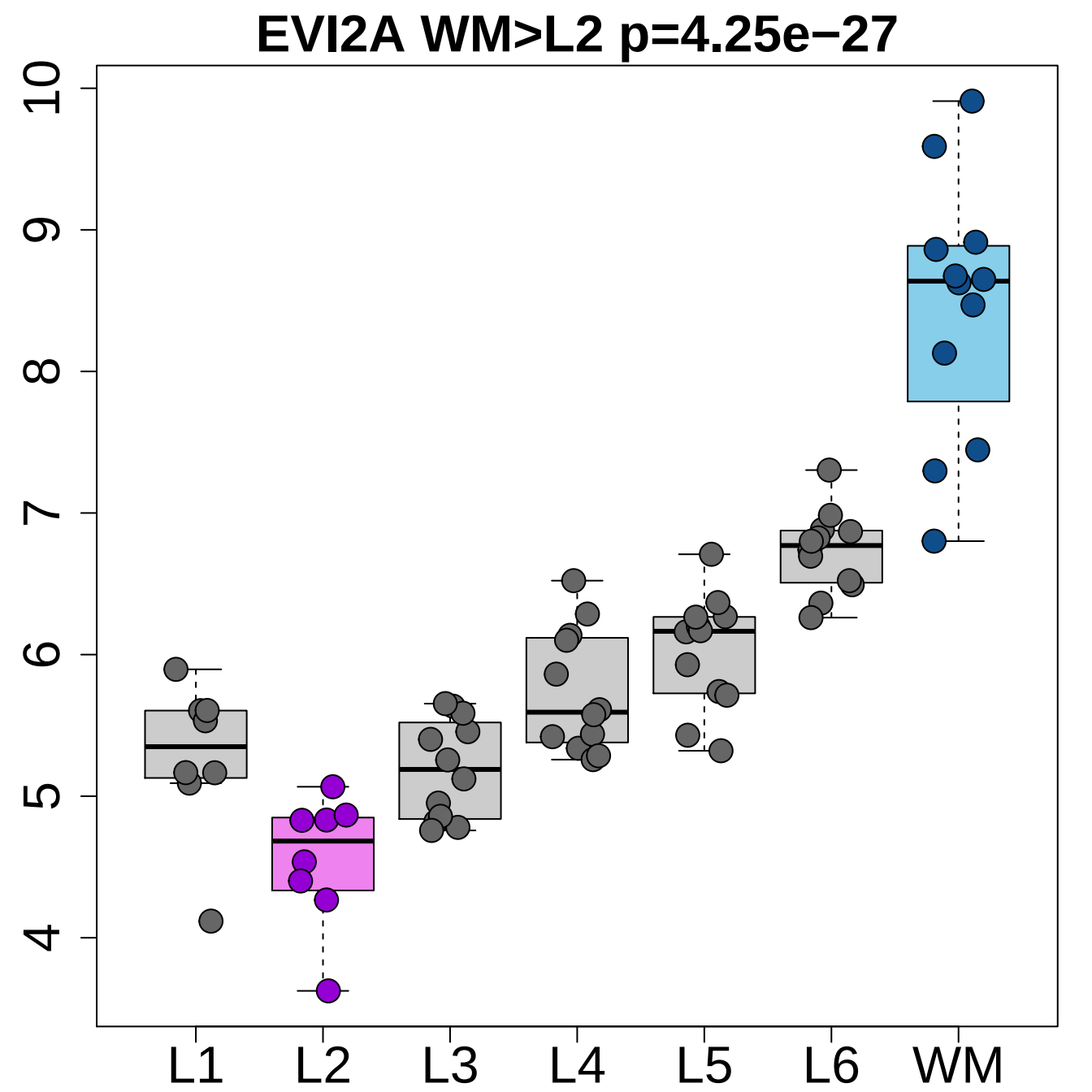
10
9
8
L1
L2
L3
L4
L5
L6
WM


EVI2A WM>L2 p=4.25e−27
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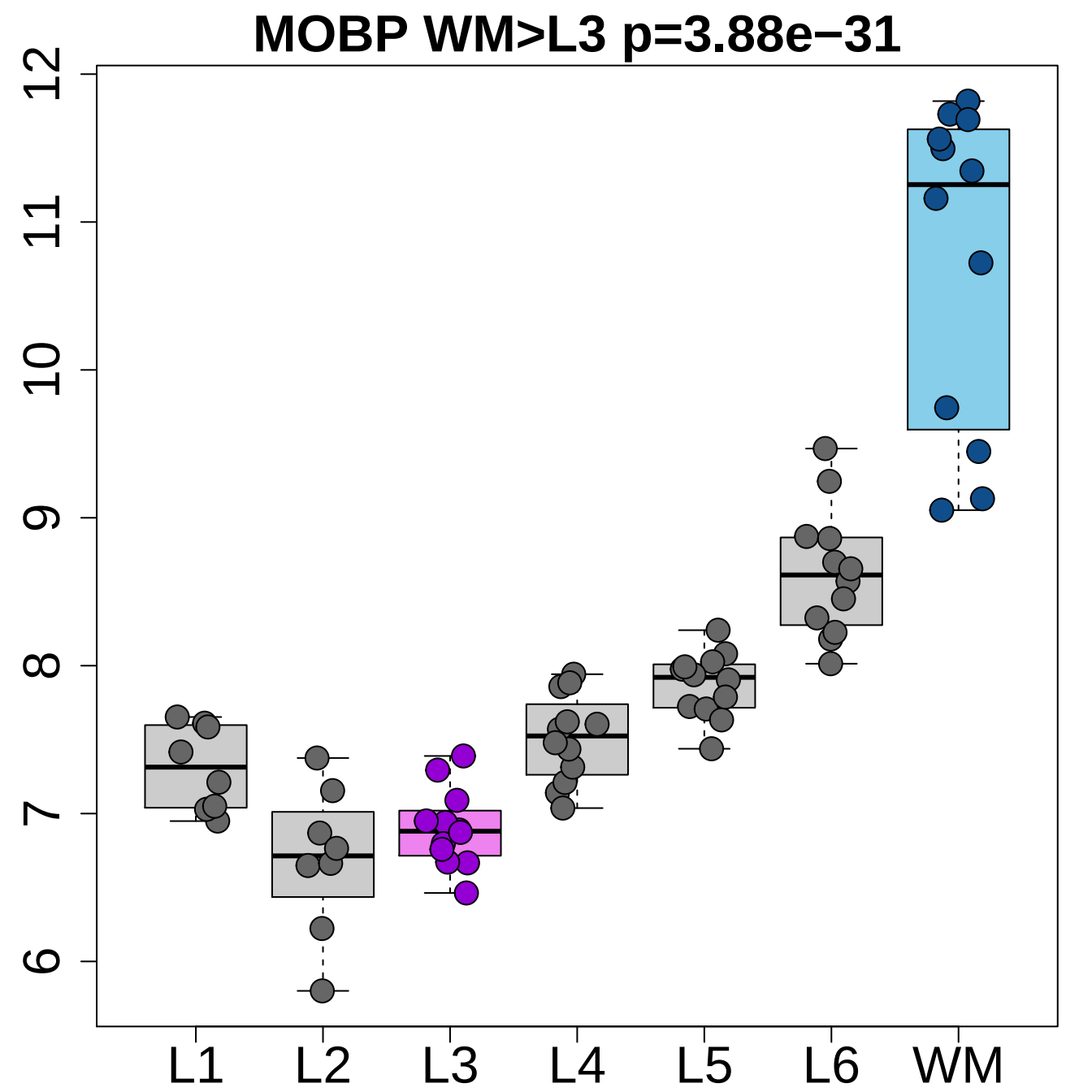
9
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


MOBP WM>L3 p=3.88e−31
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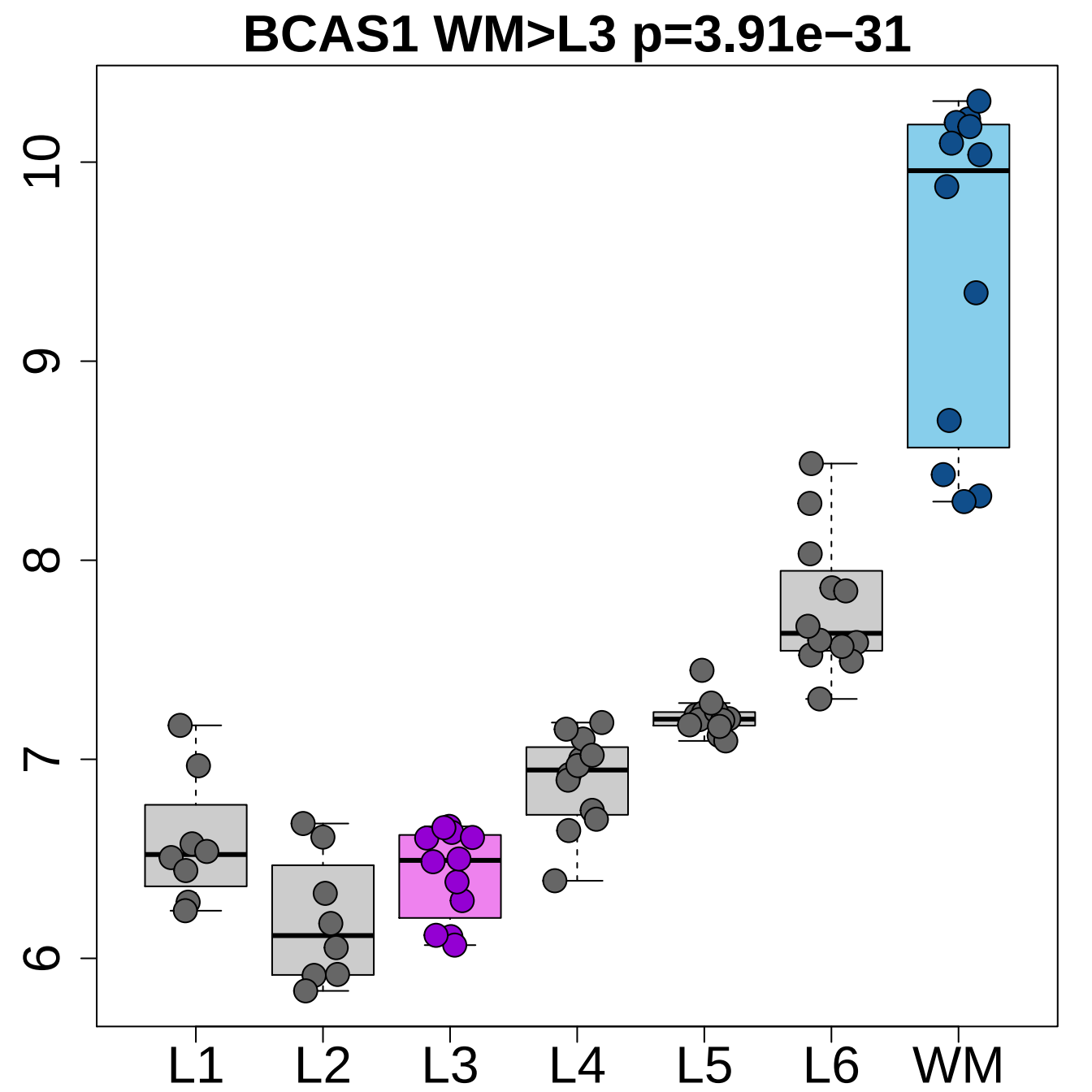
11
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM


BCAS1 WM>L3 p=3.91e−31
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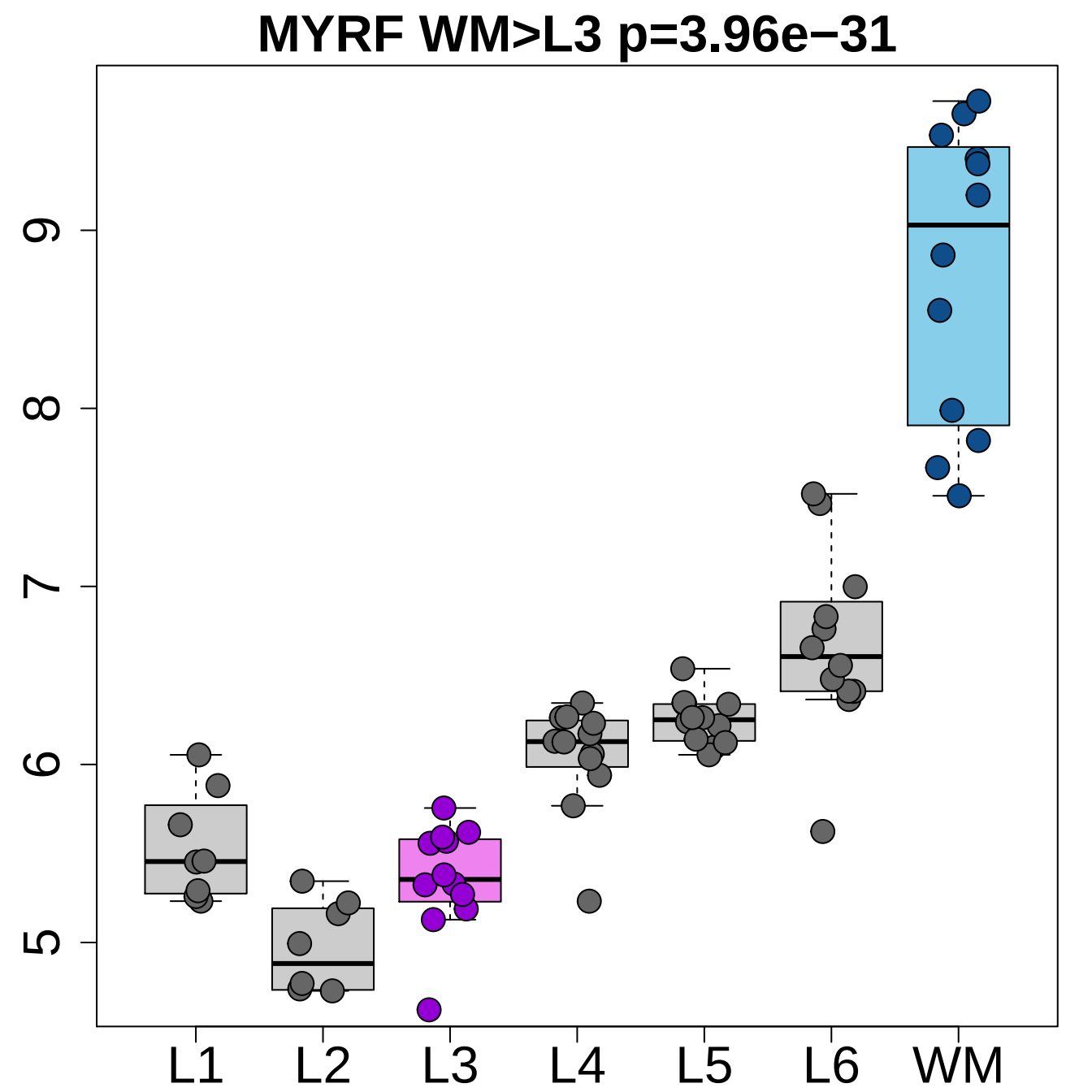
7
6
L1
L2
L3
L4
L5
L6
WM


MYRF WM>L3 p=3.96e−31
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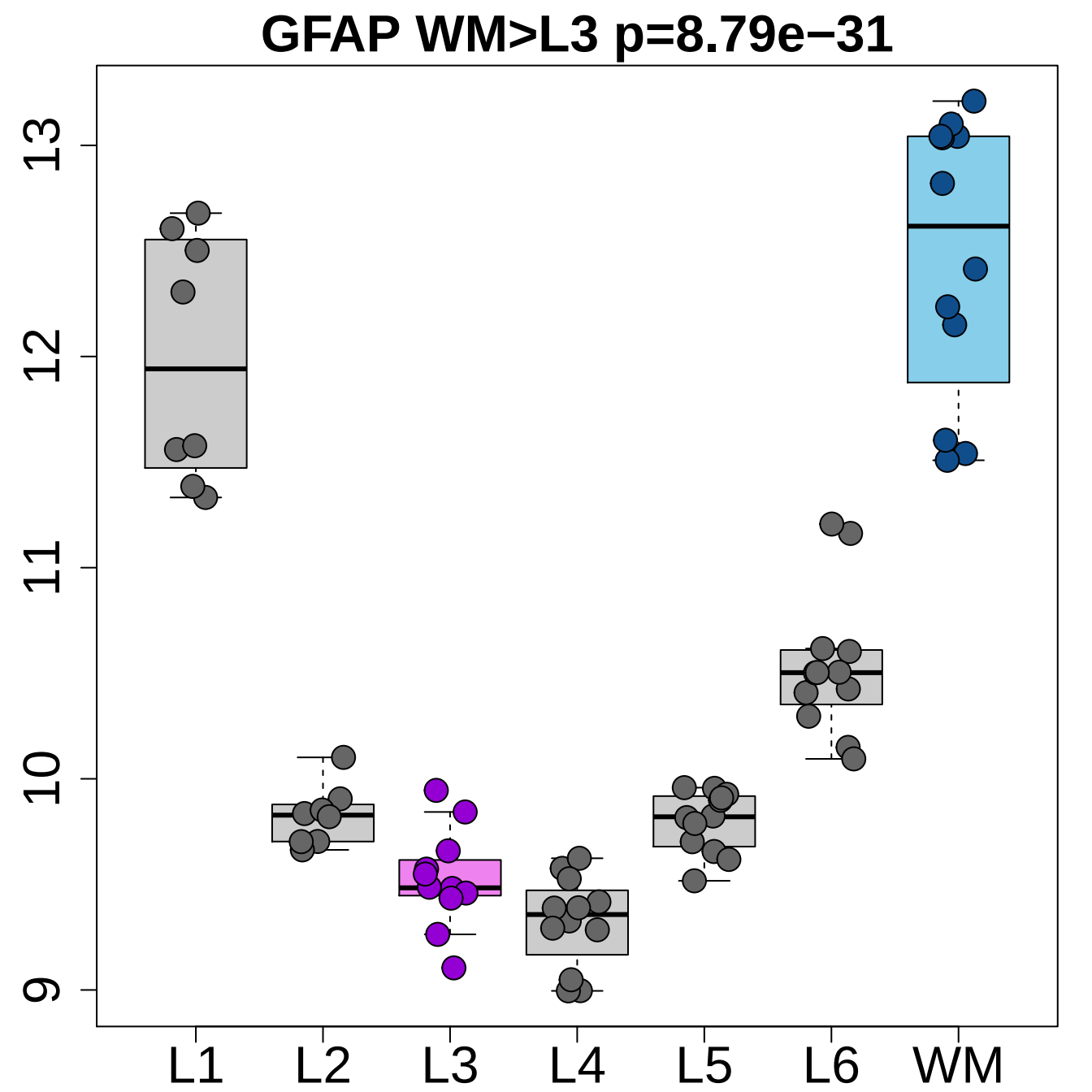
7
6
5
L1
L2
L3
L4
L5
L6
WM


GFAP WM>L3 p=8.79e−31
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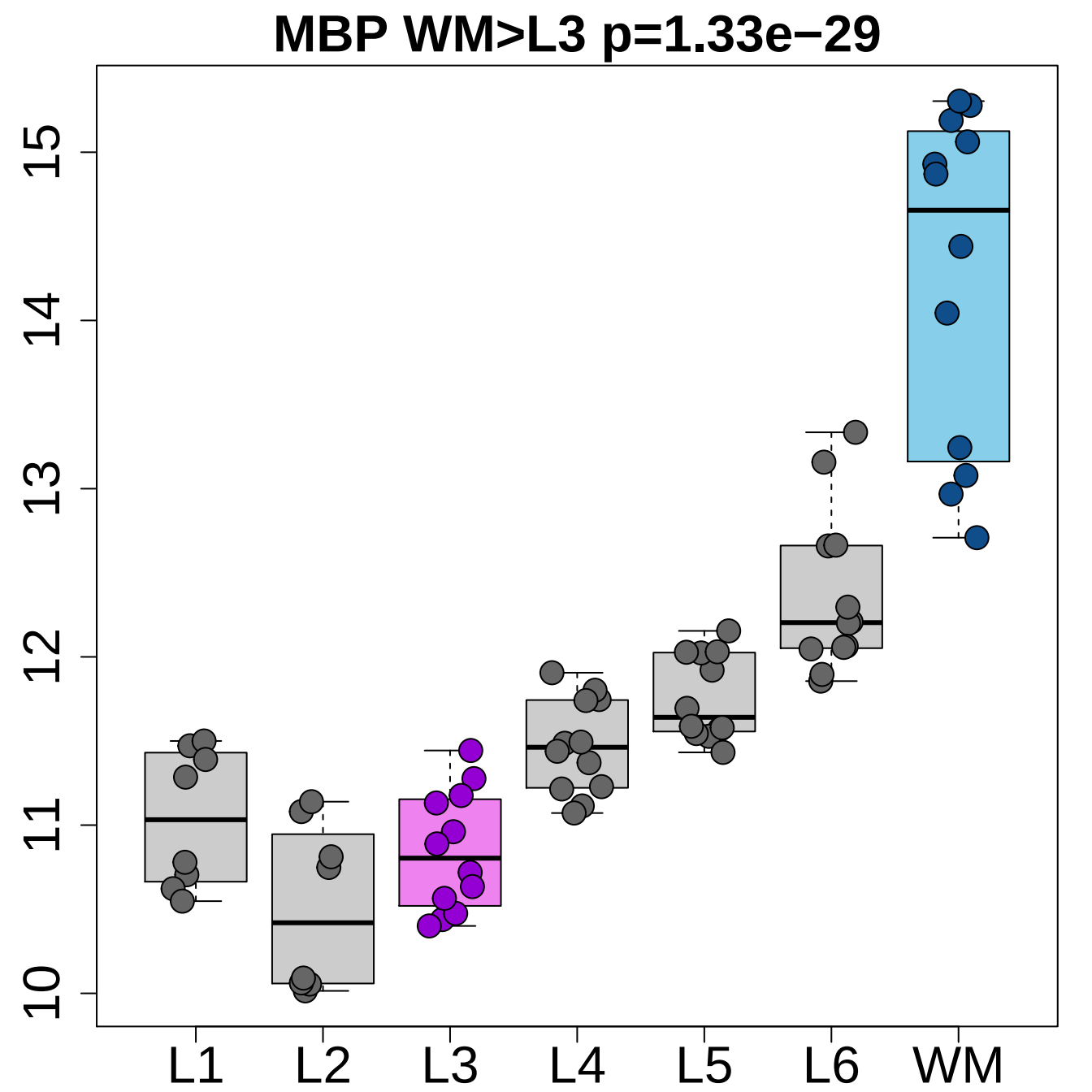
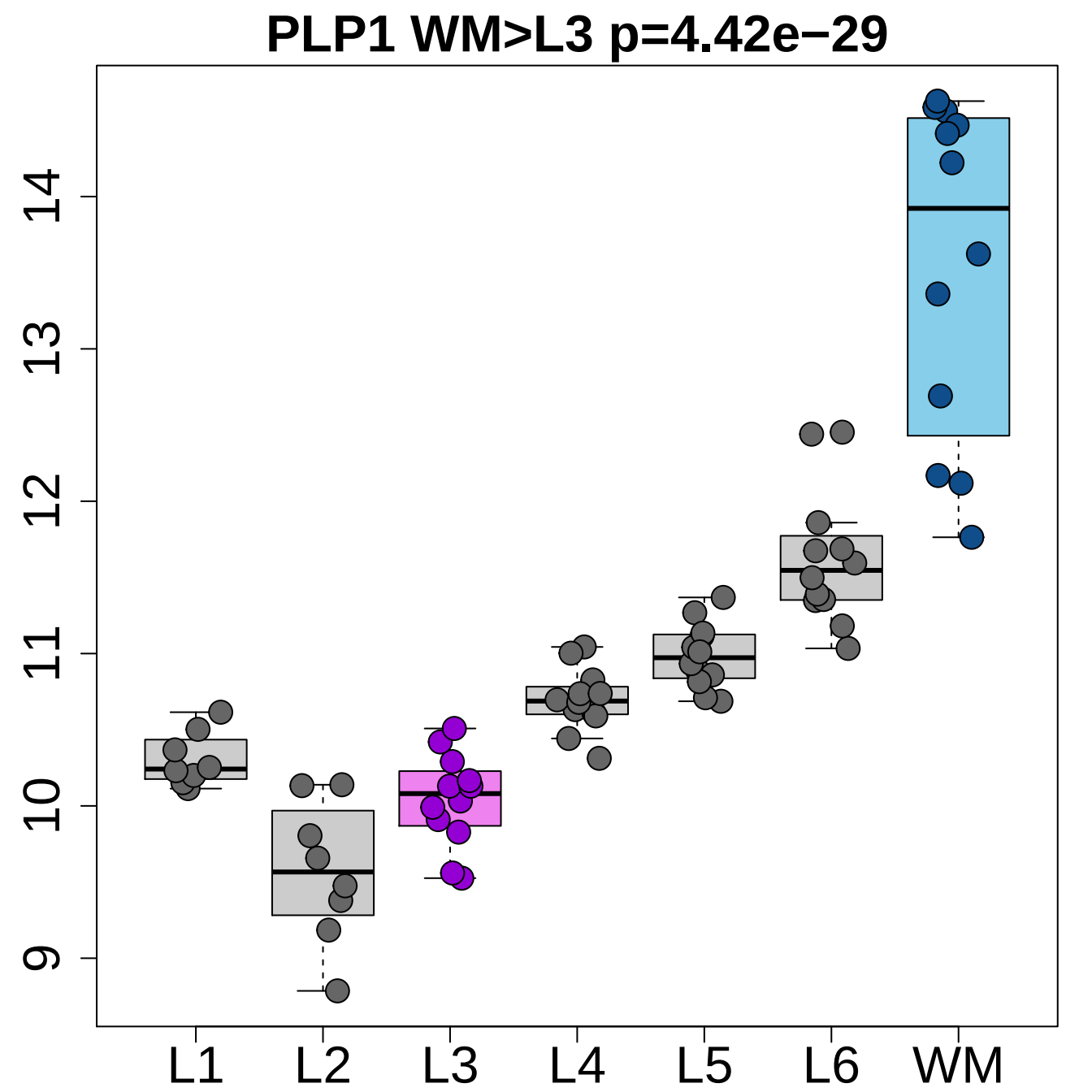
12
11
10
9
L1
L2
L3
L4
L5
L6
WM


MBP WM>L3 p=1.33e−29
15
14
13
12
11
10
L1
L2
L3
L4
L5
L6
WM


PLP1 WM>L3 p=4.42e−29
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12
11
10
9
L1
L2
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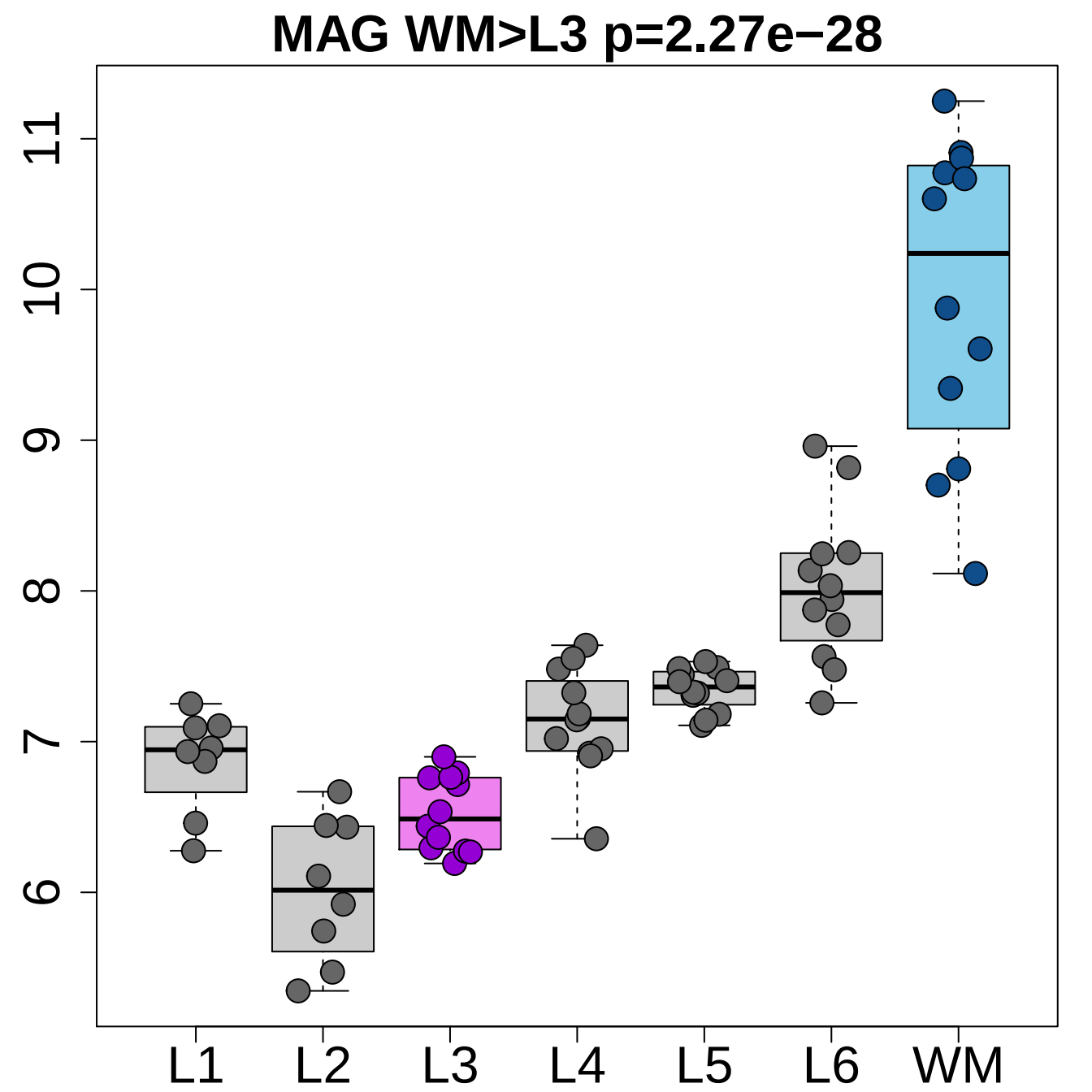
L4
L5
L6
WM


MAG WM>L3 p=2.27e−28
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10
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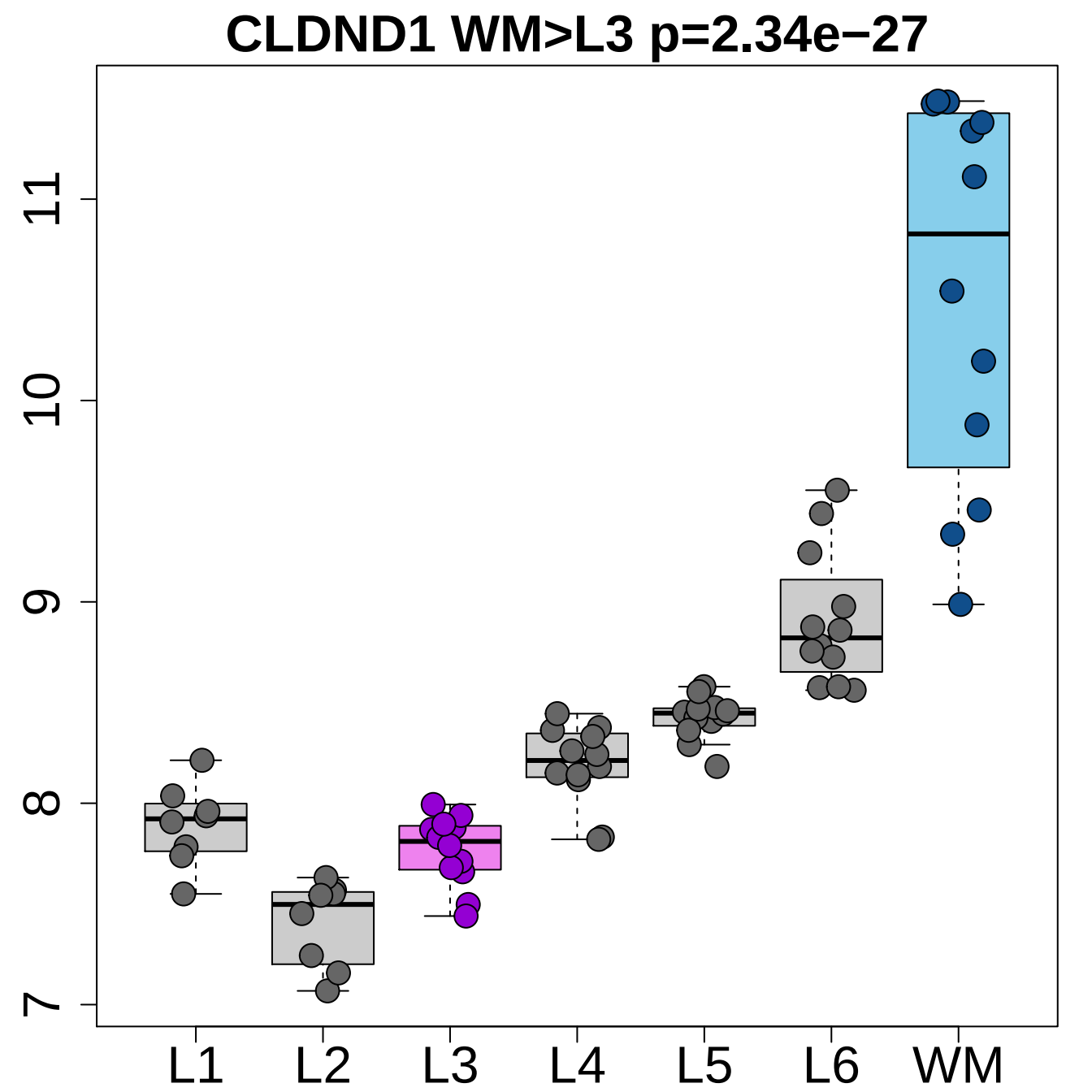
8
7
6
L1
L2
L3
L4
L5
L6
WM


CLDND1 WM>L3 p=2.34e−27
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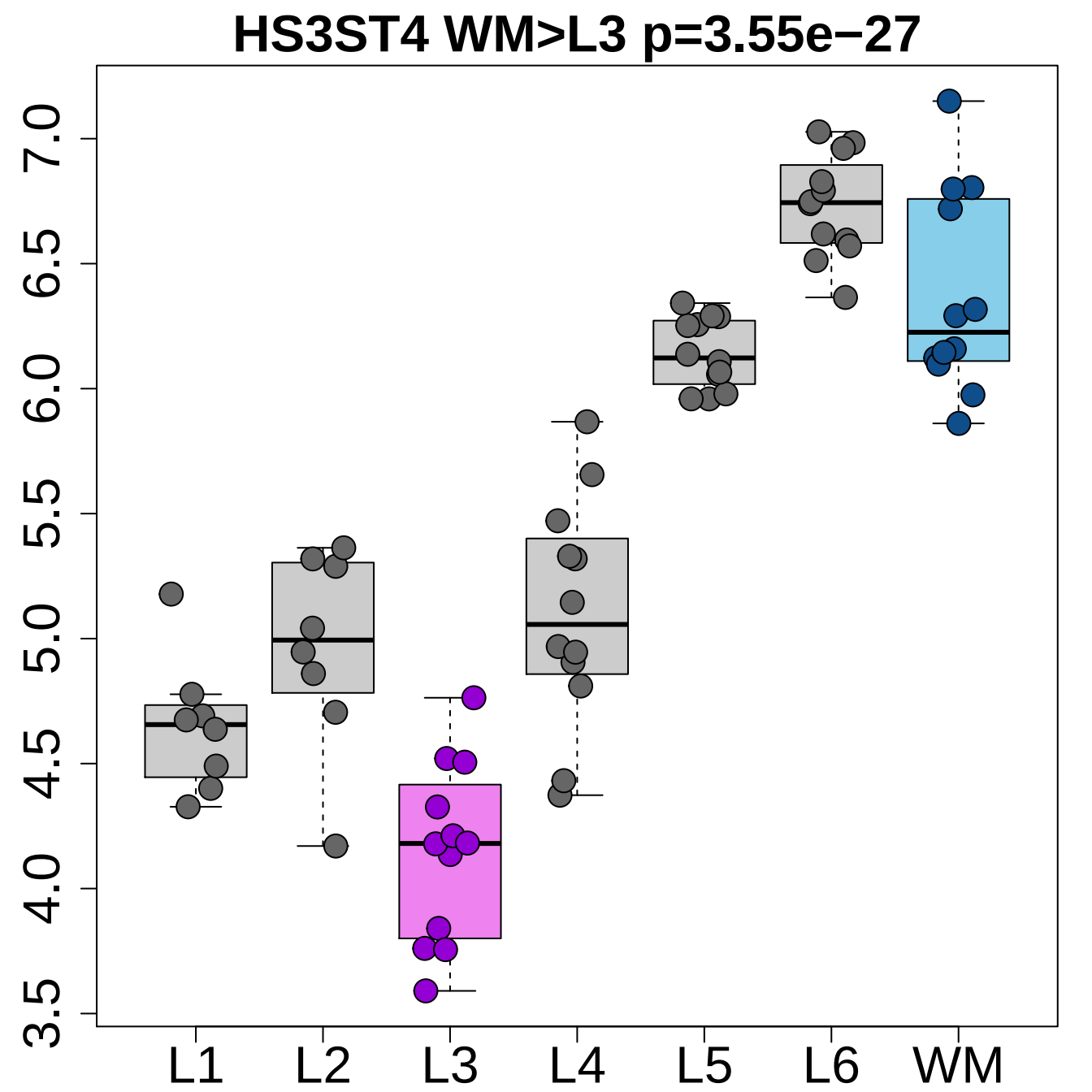
8
7
L1
L2
L3
L4
L5
L6
WM


HS3ST4 WM>L3 p=3.55e−27
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6.0
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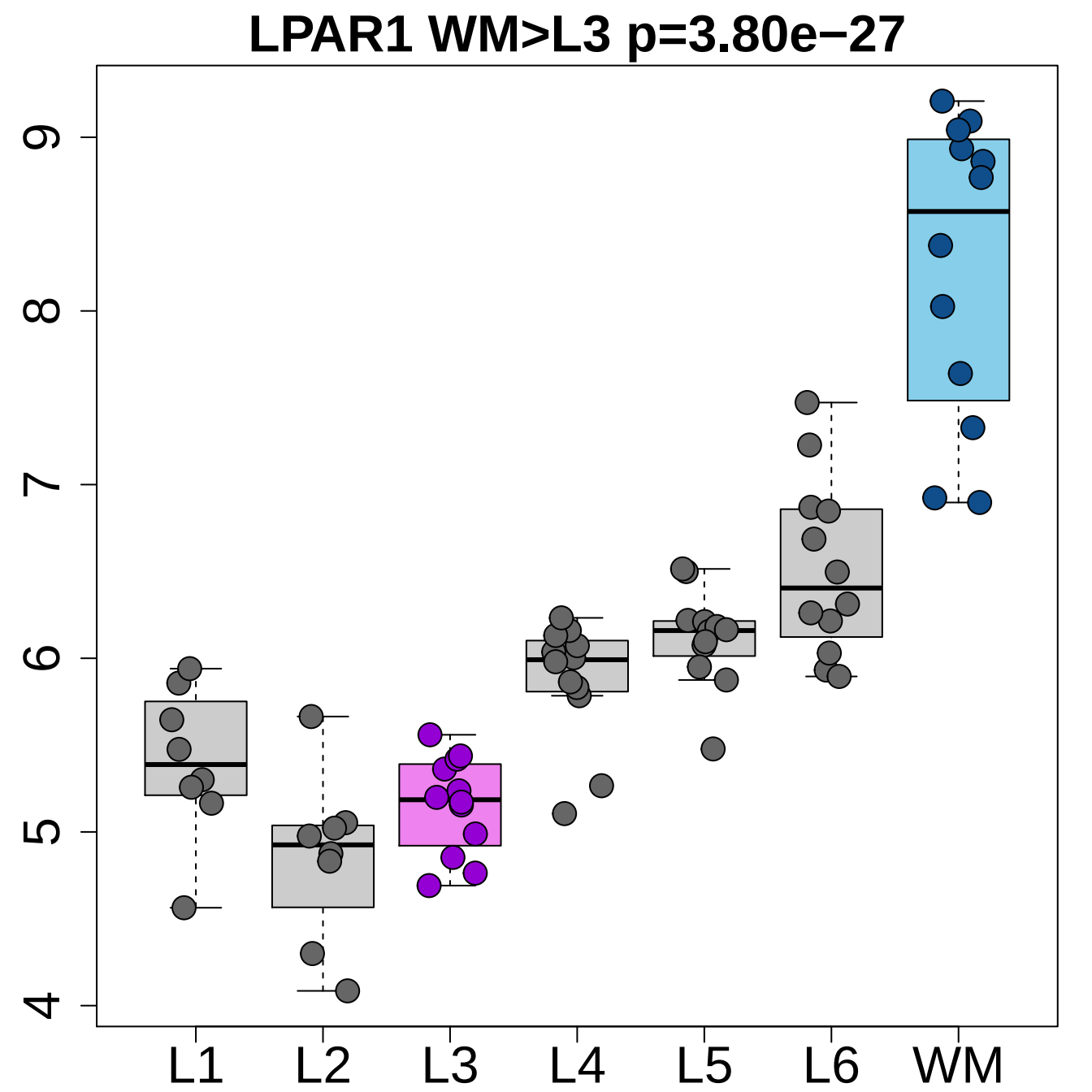
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


LPAR1 WM>L3 p=3.80e−27
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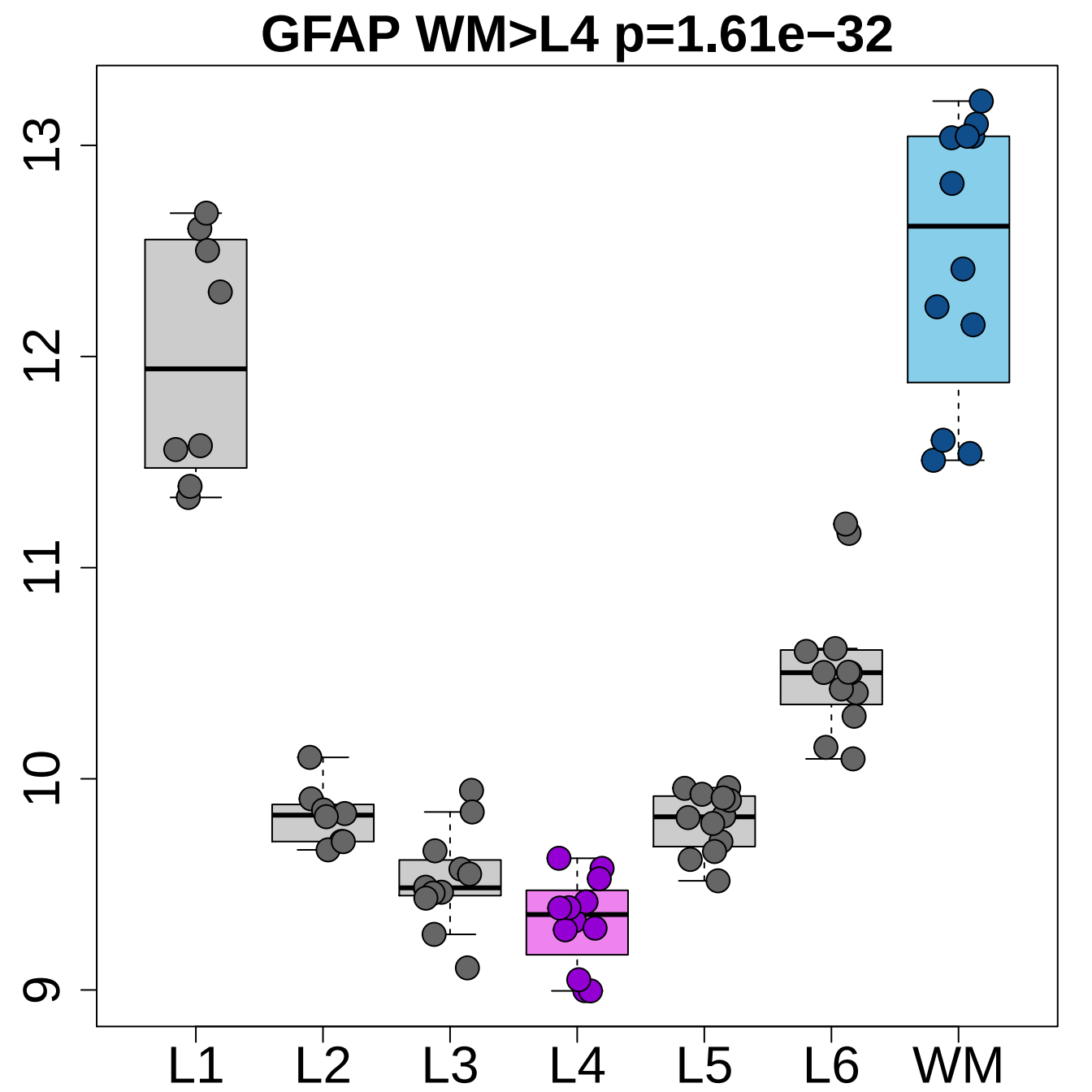
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


GFAP WM>L4 p=1.61e−32
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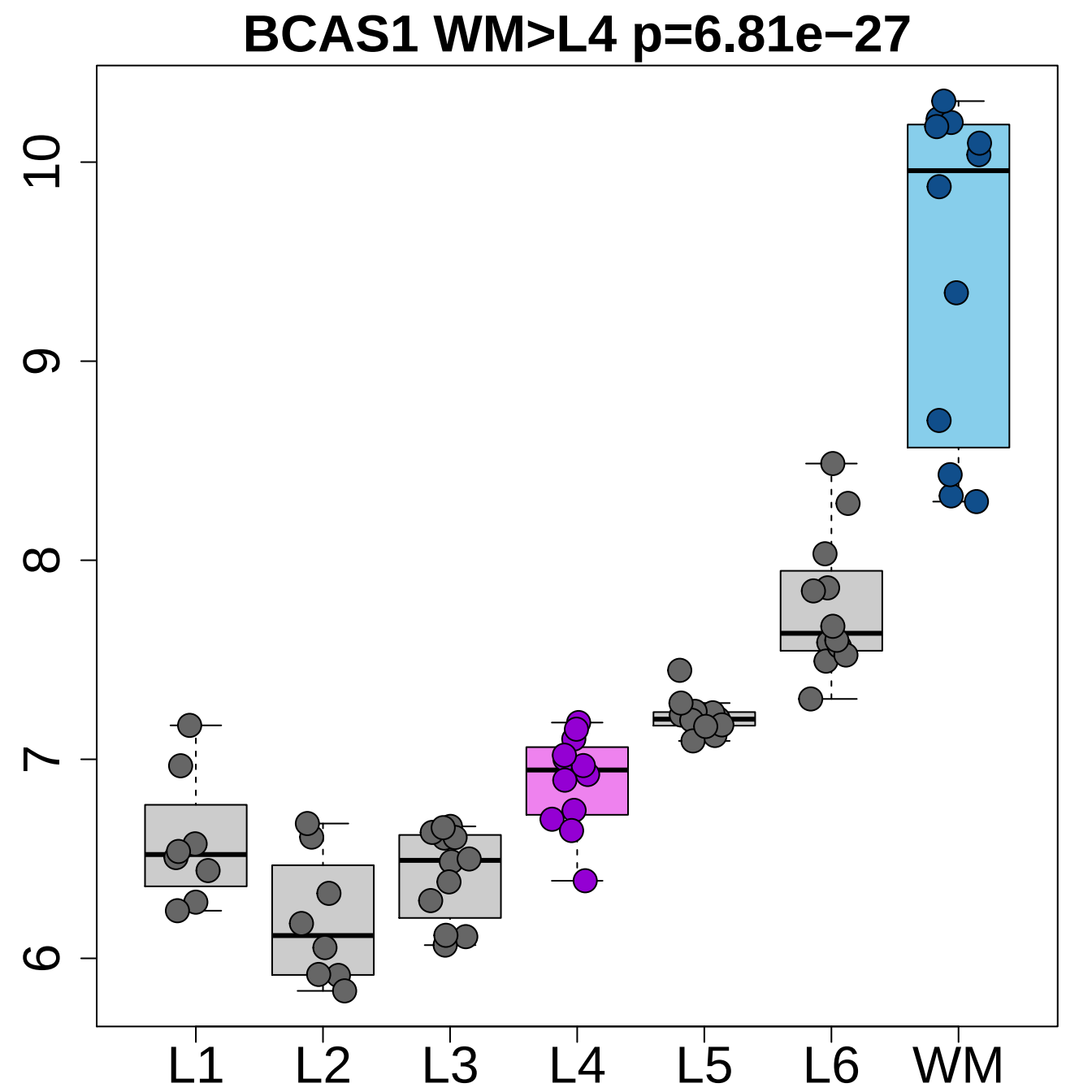
11
10
9
L1
L2
L3
L4
L5
L6
WM


BCAS1 WM>L4 p=6.81e−27
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8
7
6
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L2
L3
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L5
L6
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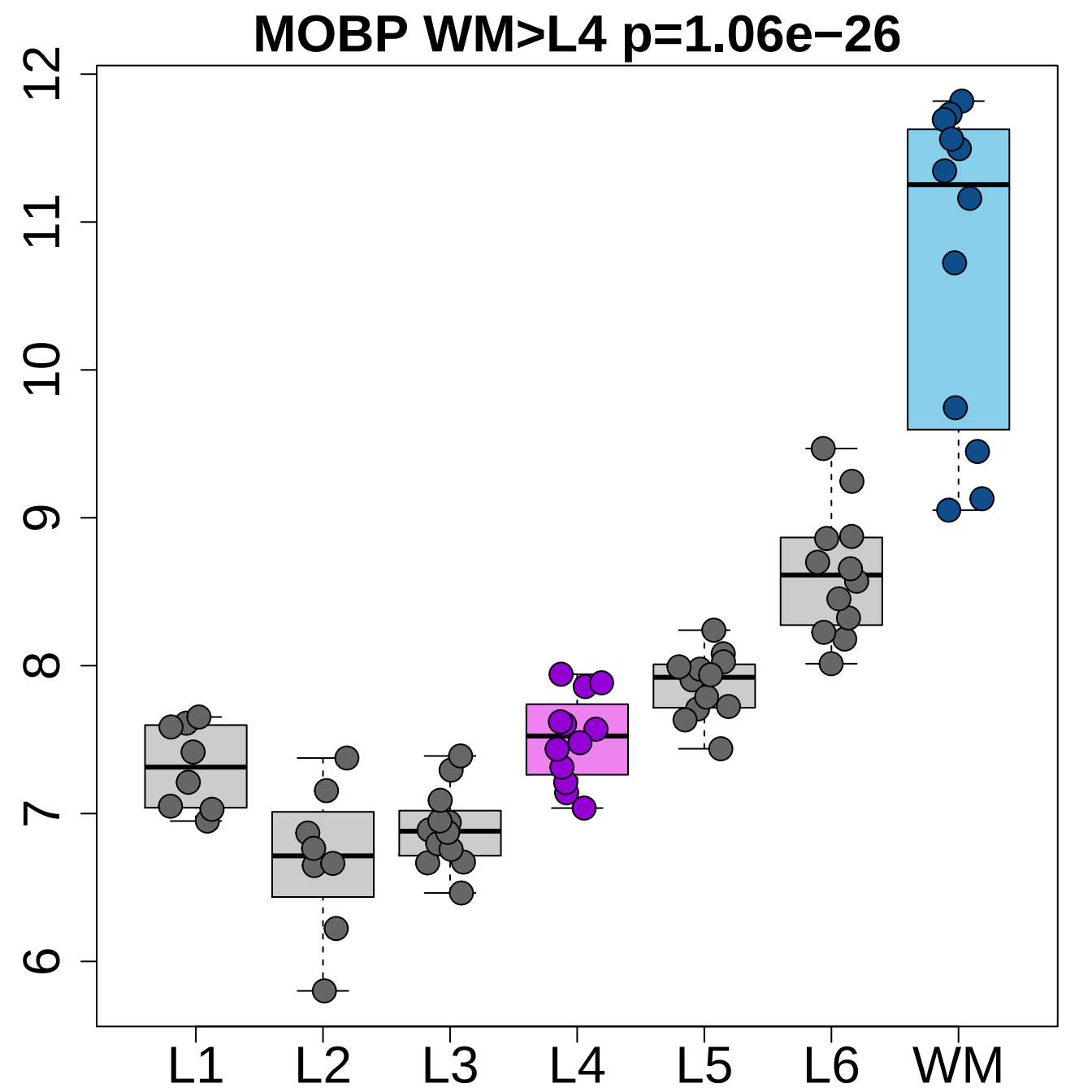
MOBP WM>L4 p=1.06e−26
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9
8
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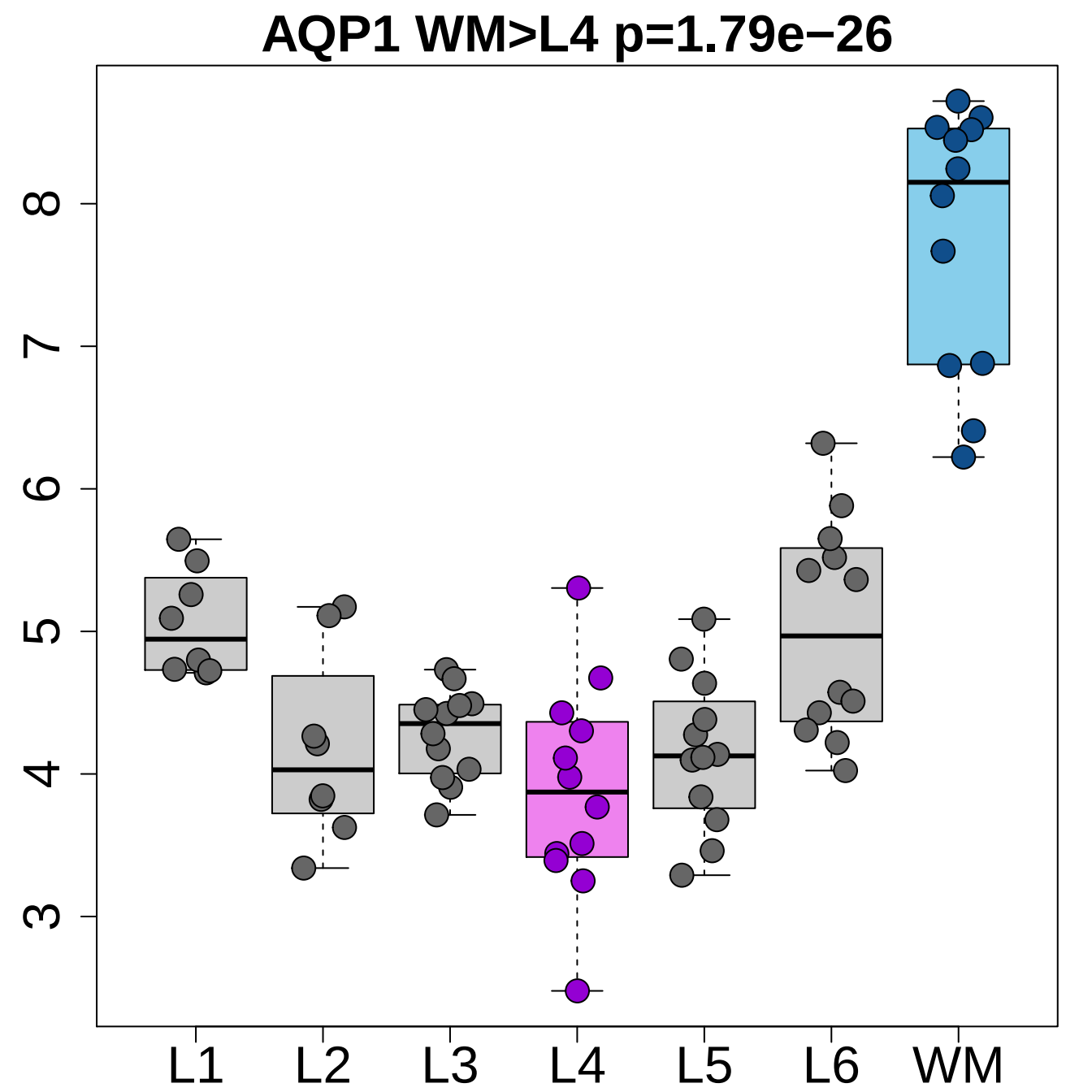
6
L1
L2
L3
L4
L5
L6
WM


AQP1 WM>L4 p=1.79e−26
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L1
L2
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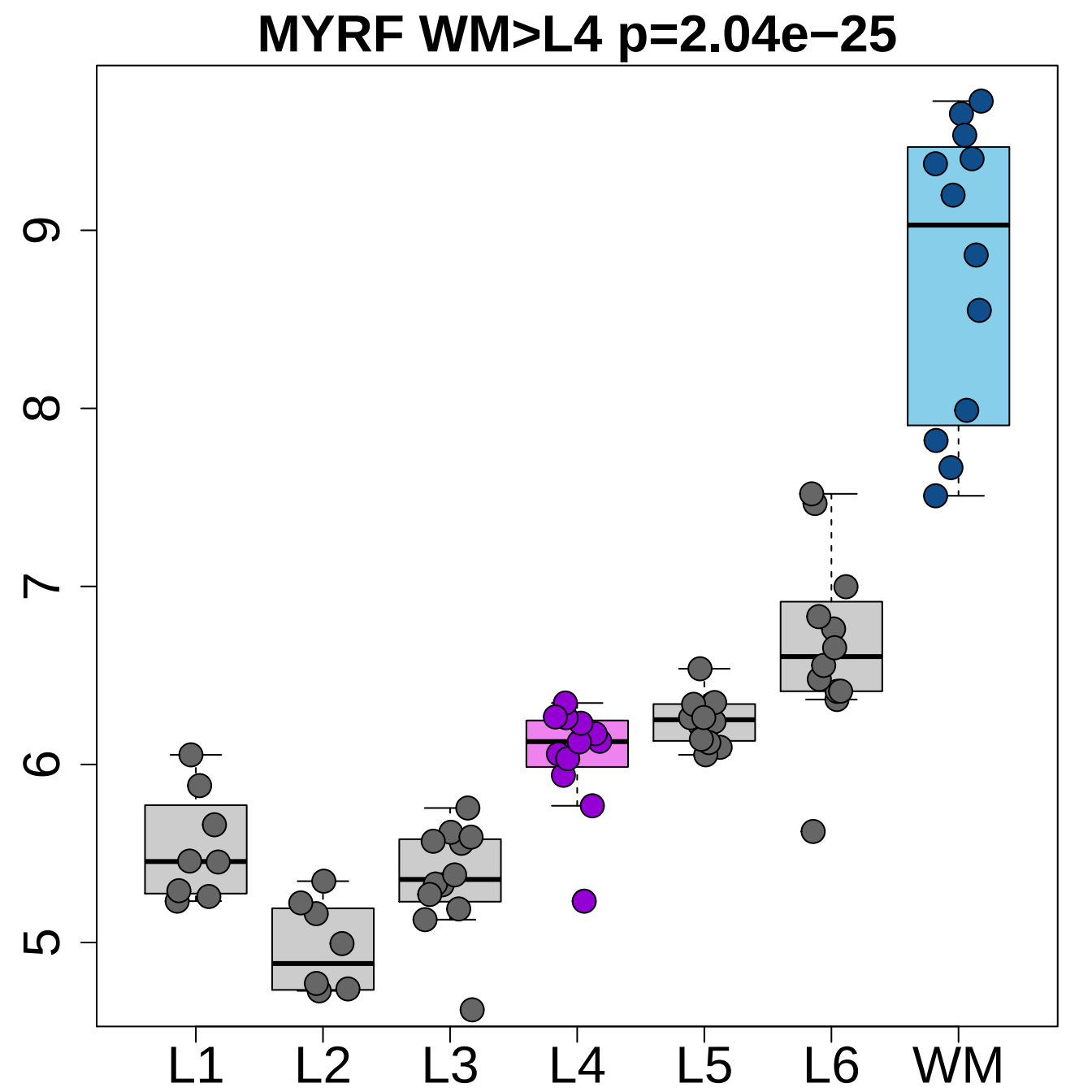
L4
L5
L6
WM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L2
L3
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L5
L6
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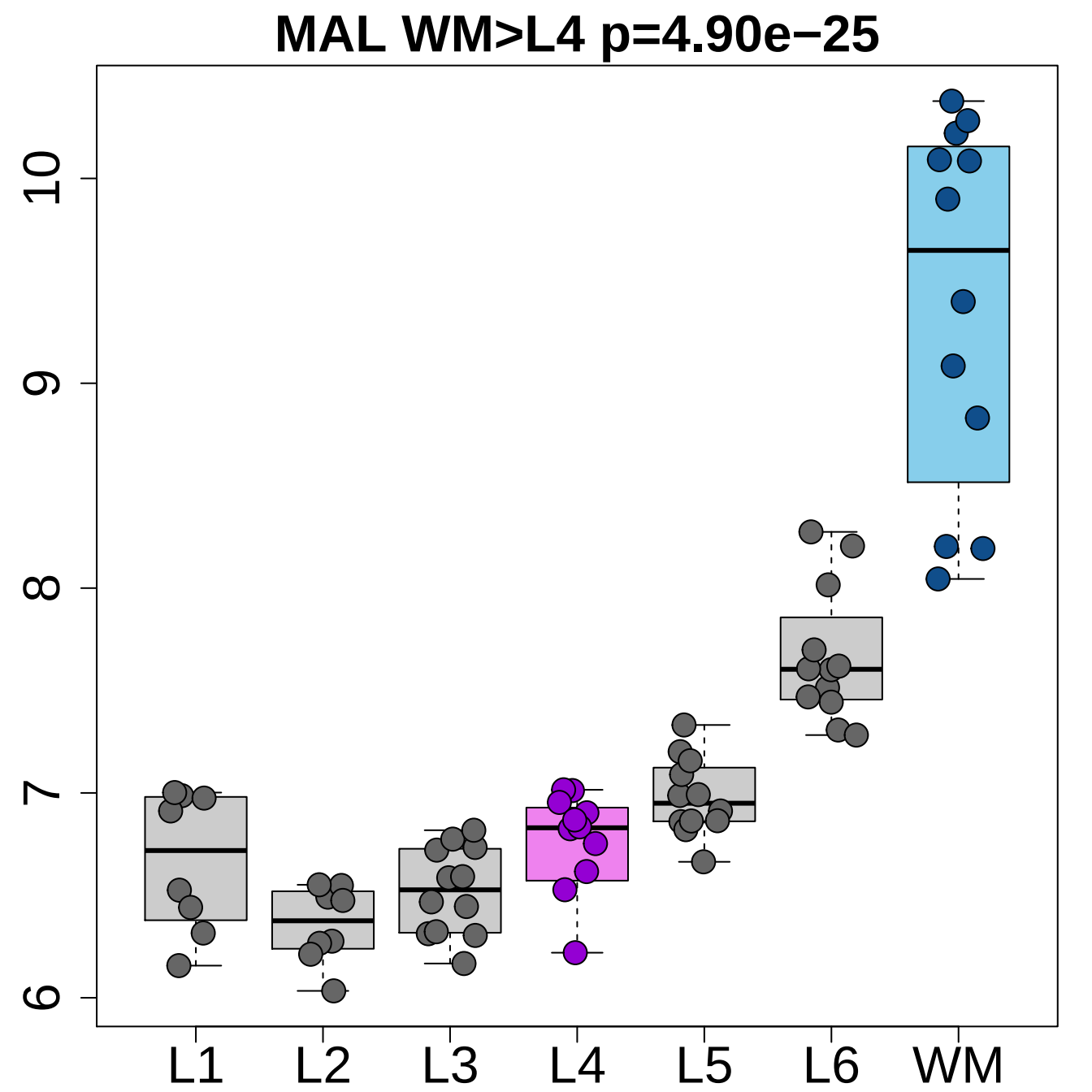
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6
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L2
L3
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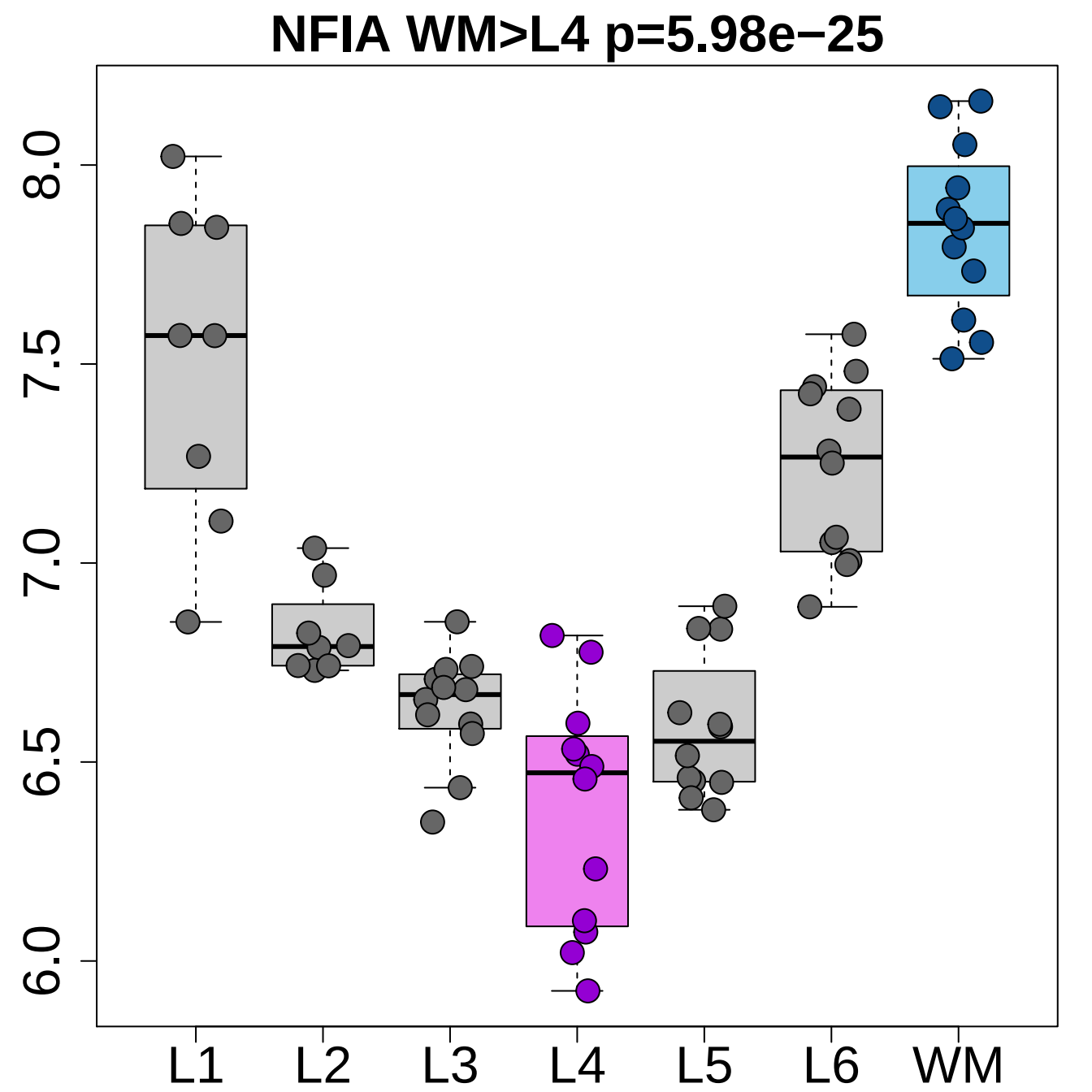
L5
L6
WM


NFIA WM>L4 p=5.98e−25
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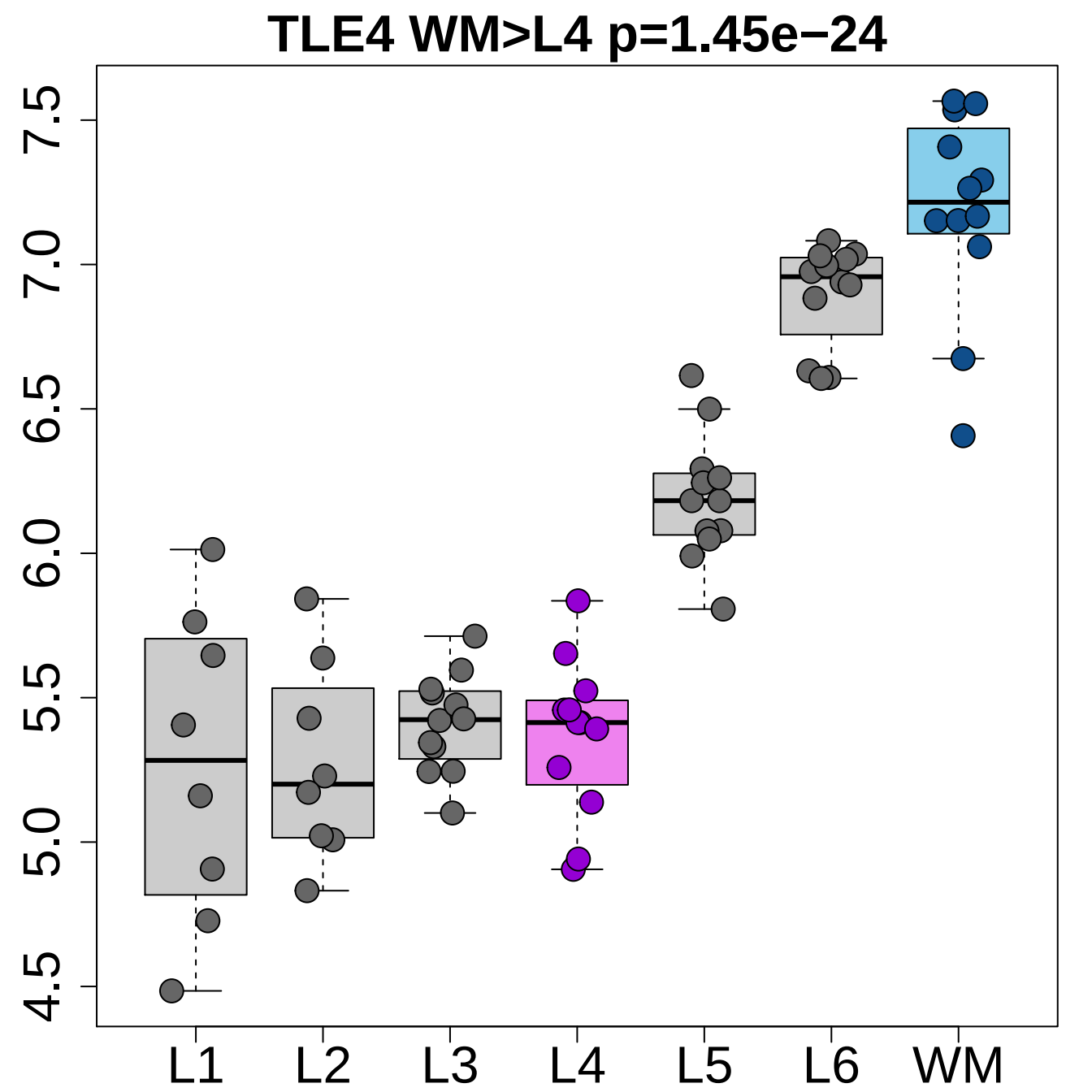
6.0
L1
L2
L3
L4
L5
L6
WM


TLE4 WM>L4 p=1.45e−24
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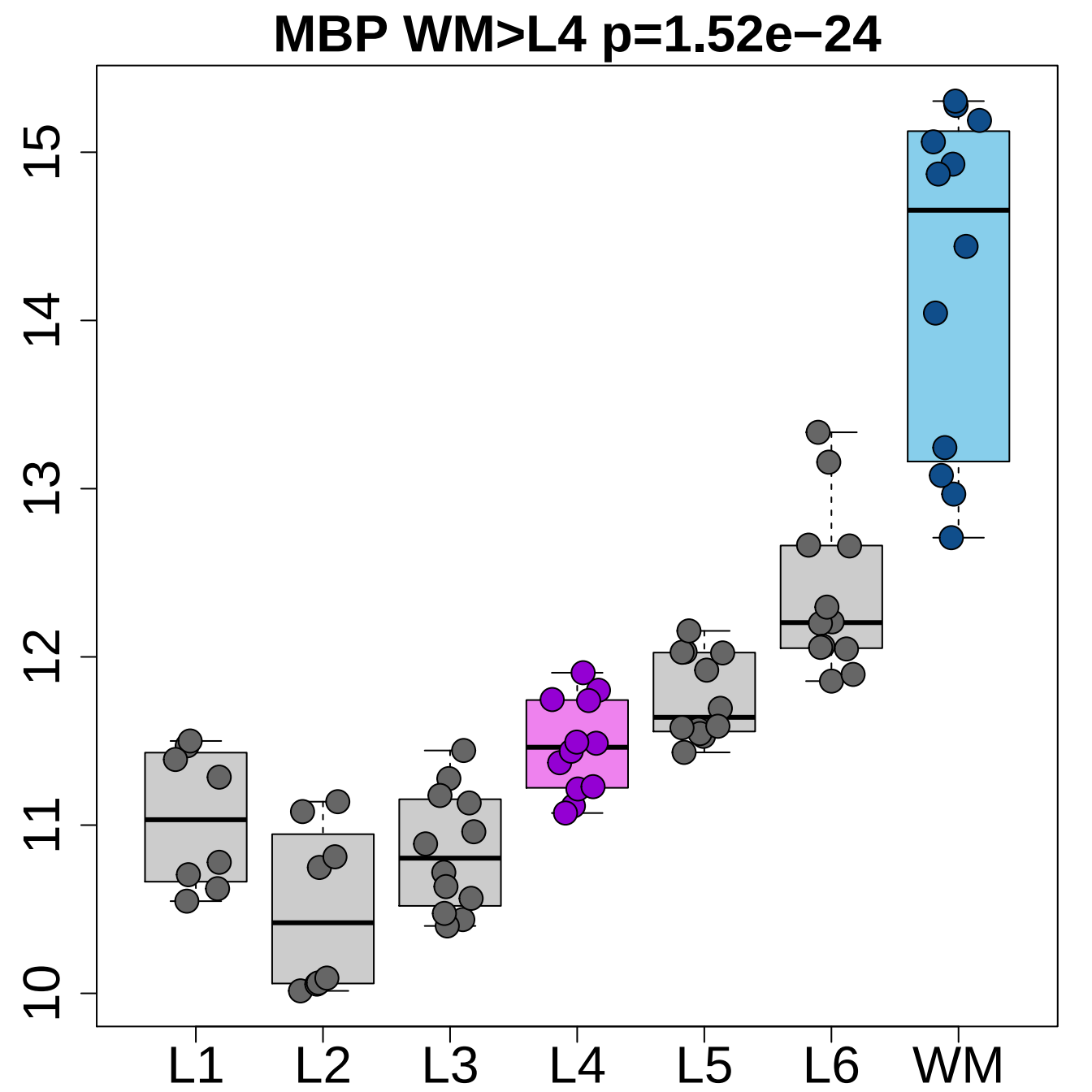
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


MBP WM>L4 p=1.52e−24
15
14
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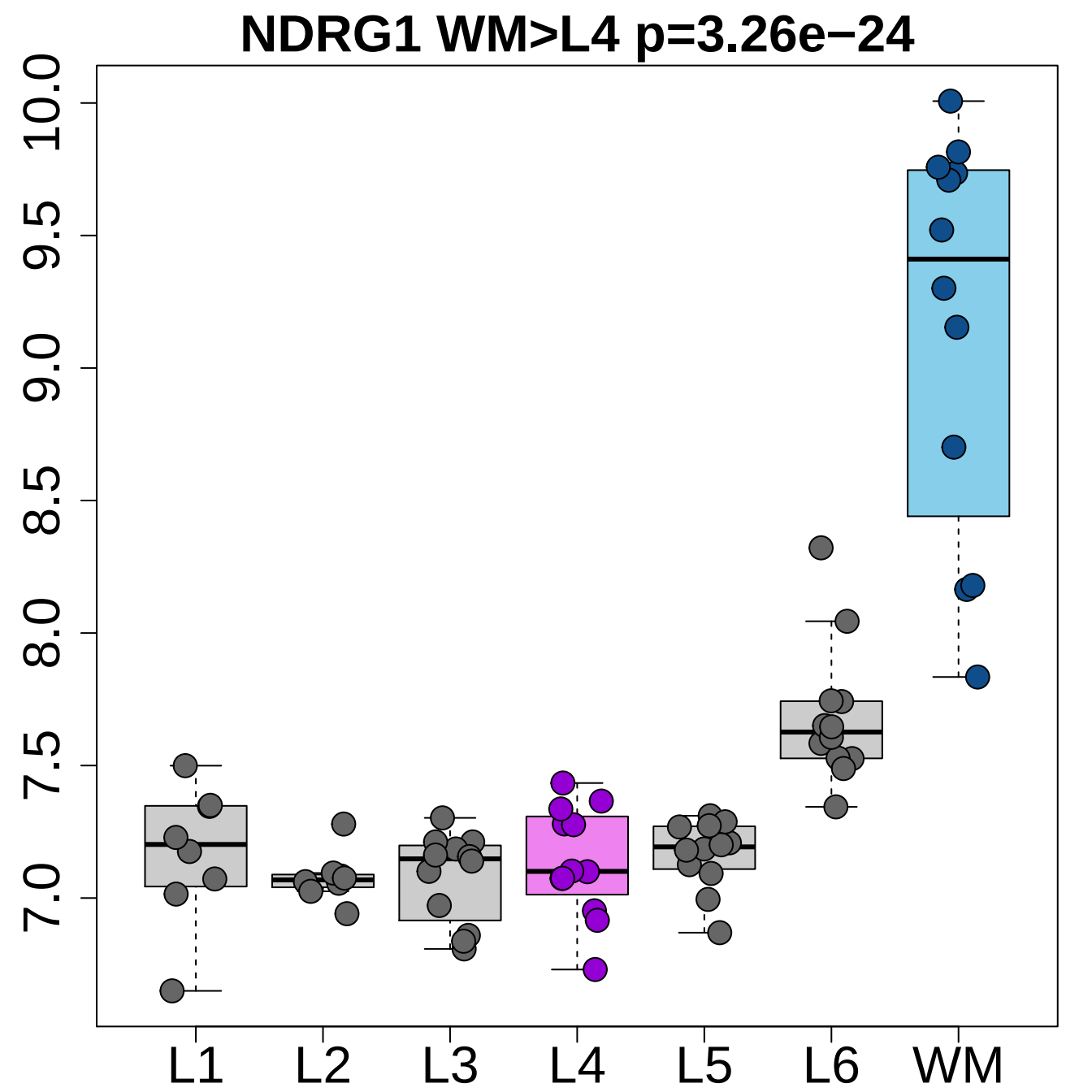
12
11
10
L1
L2
L3
L4
L5
L6
WM


NDRG1 WM>L4 p=3.26e−24
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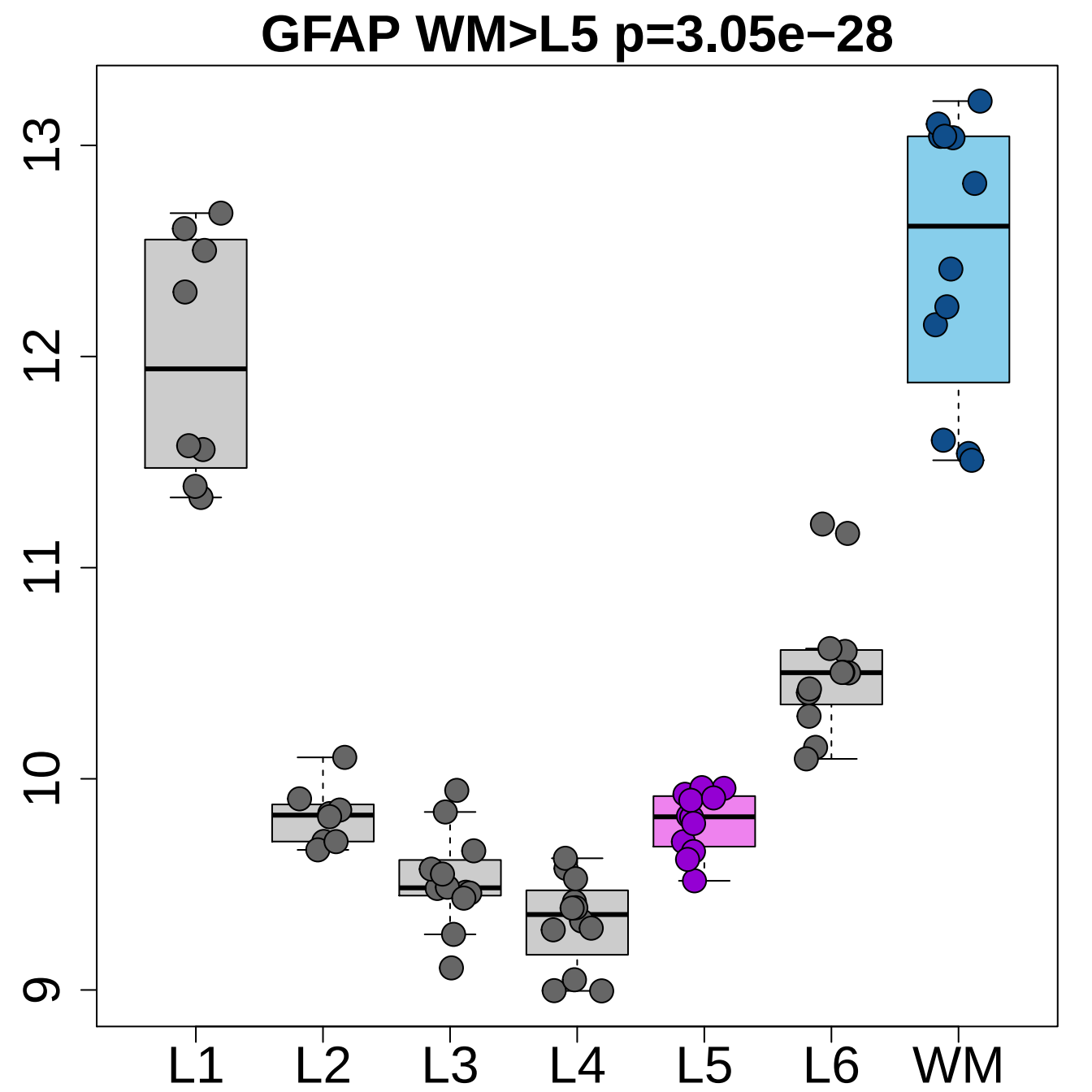
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


GFAP WM>L5 p=3.05e−28
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10
9
L1
L2
L3
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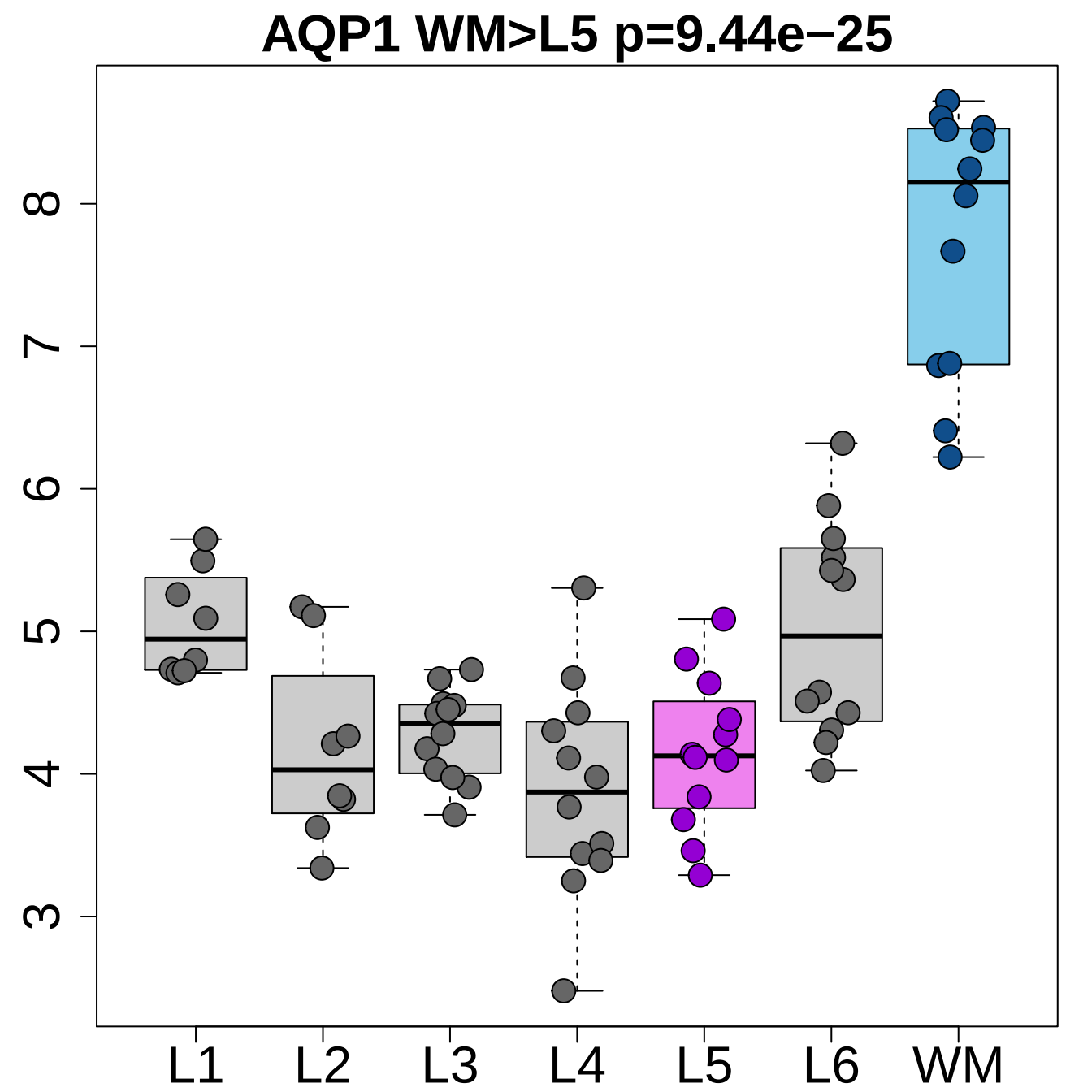
L5
L6
WM


AQP1 WM>L5 p=9.44e−25
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5
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3
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L2
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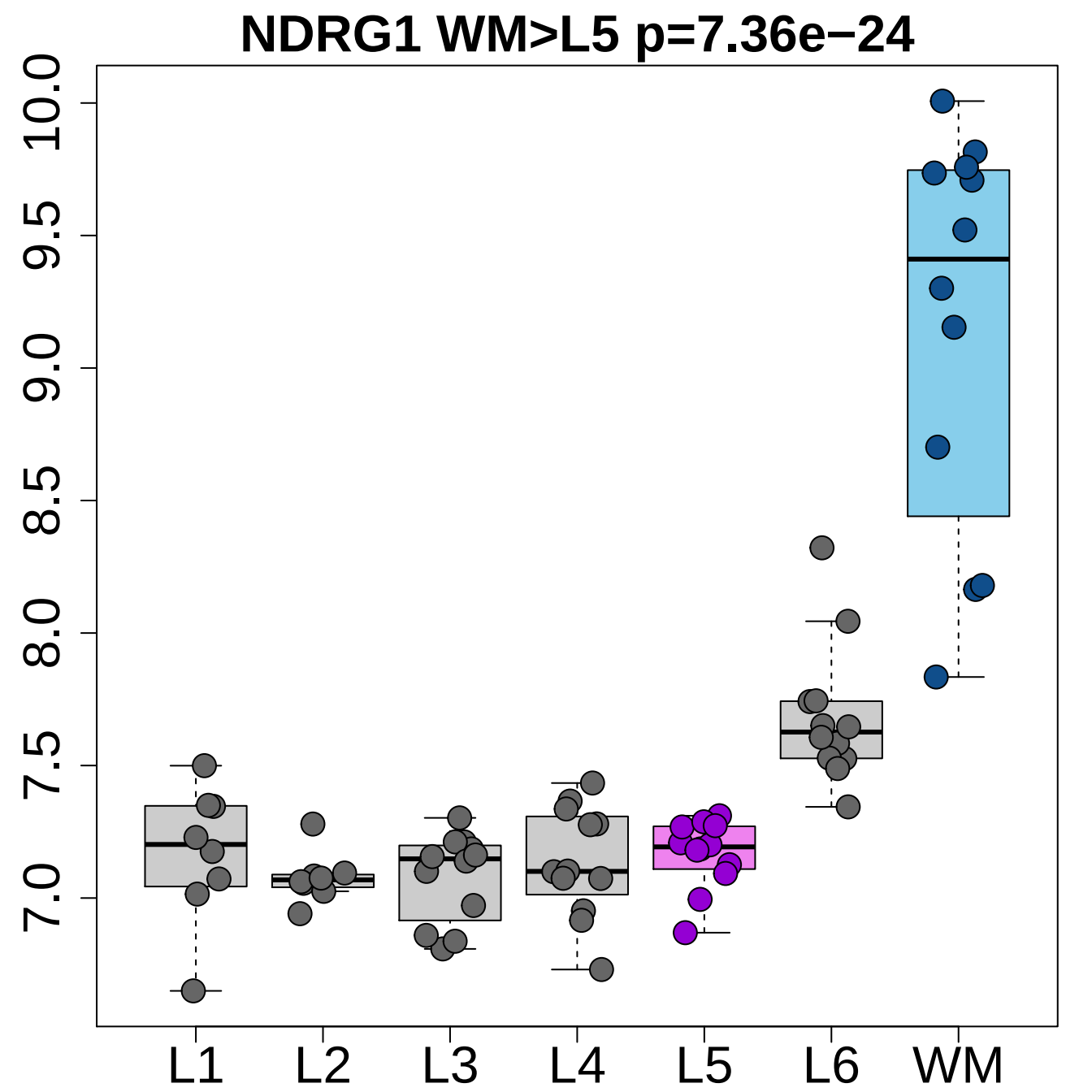
L5
L6
WM


NDRG1 WM>L5 p=7.36e−24
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8.0
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7.0
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L2
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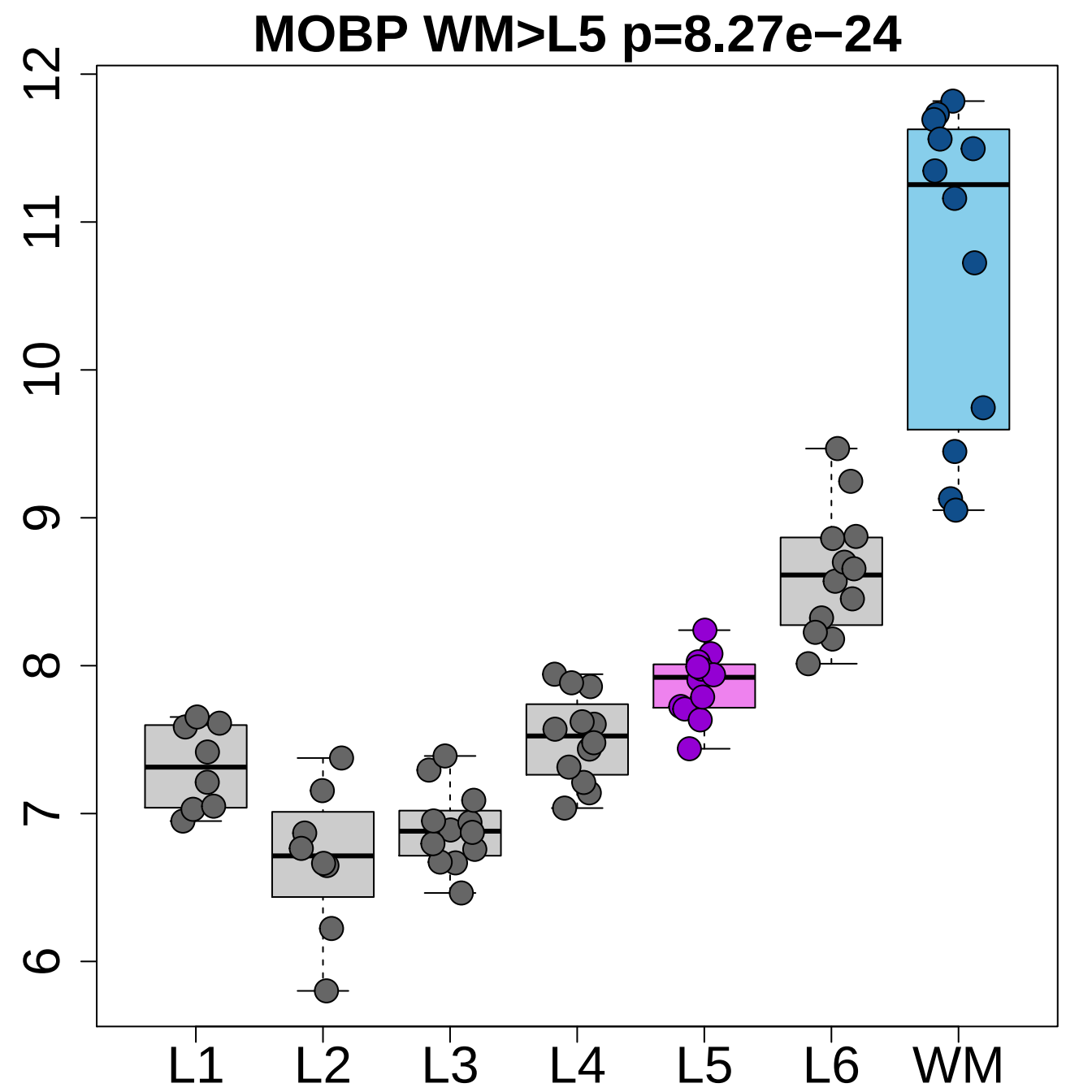
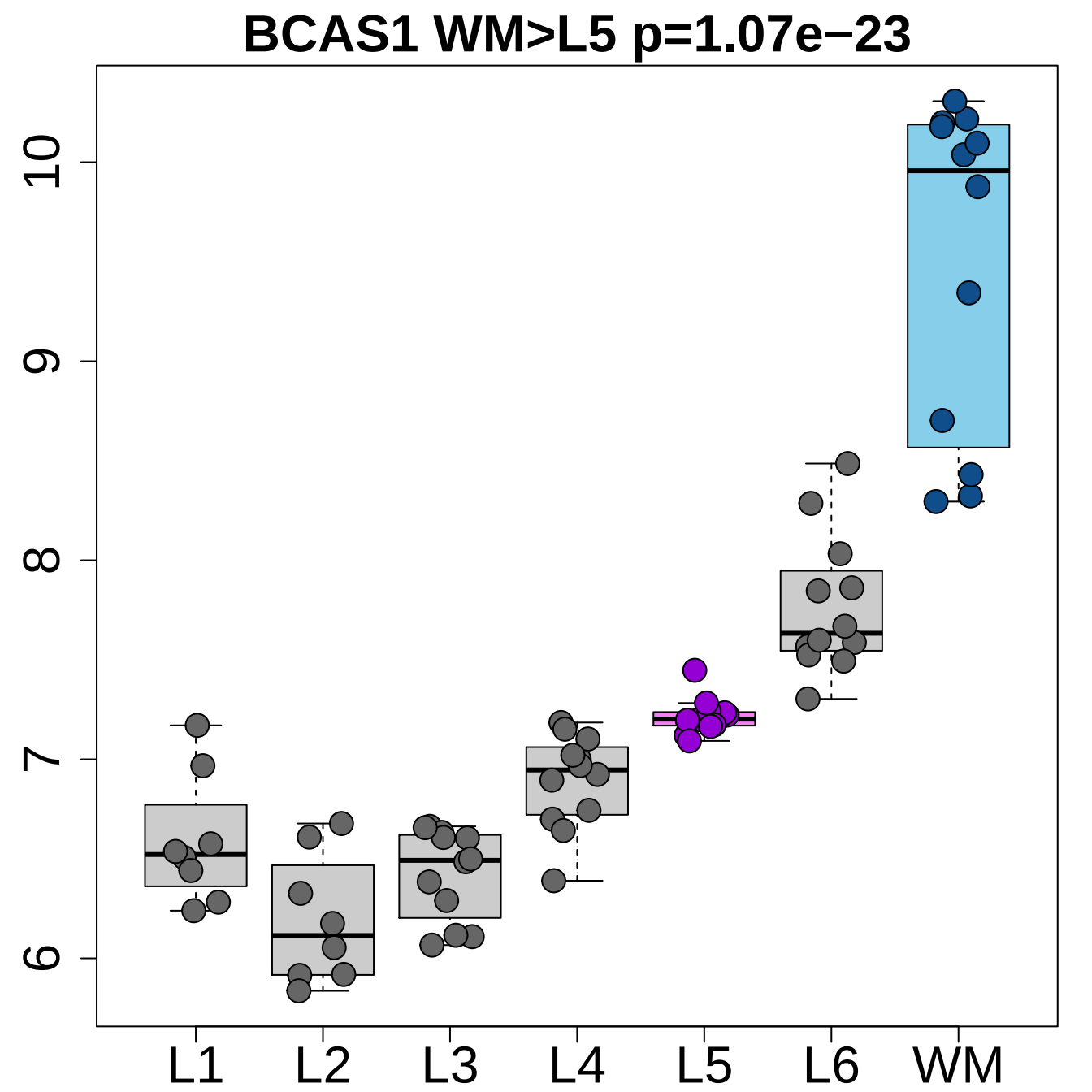
L4
L5
L6
WM


MOBP WM>L5 p=8.27e−24
12
11
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM


BCAS1 WM>L5 p=1.07e−23
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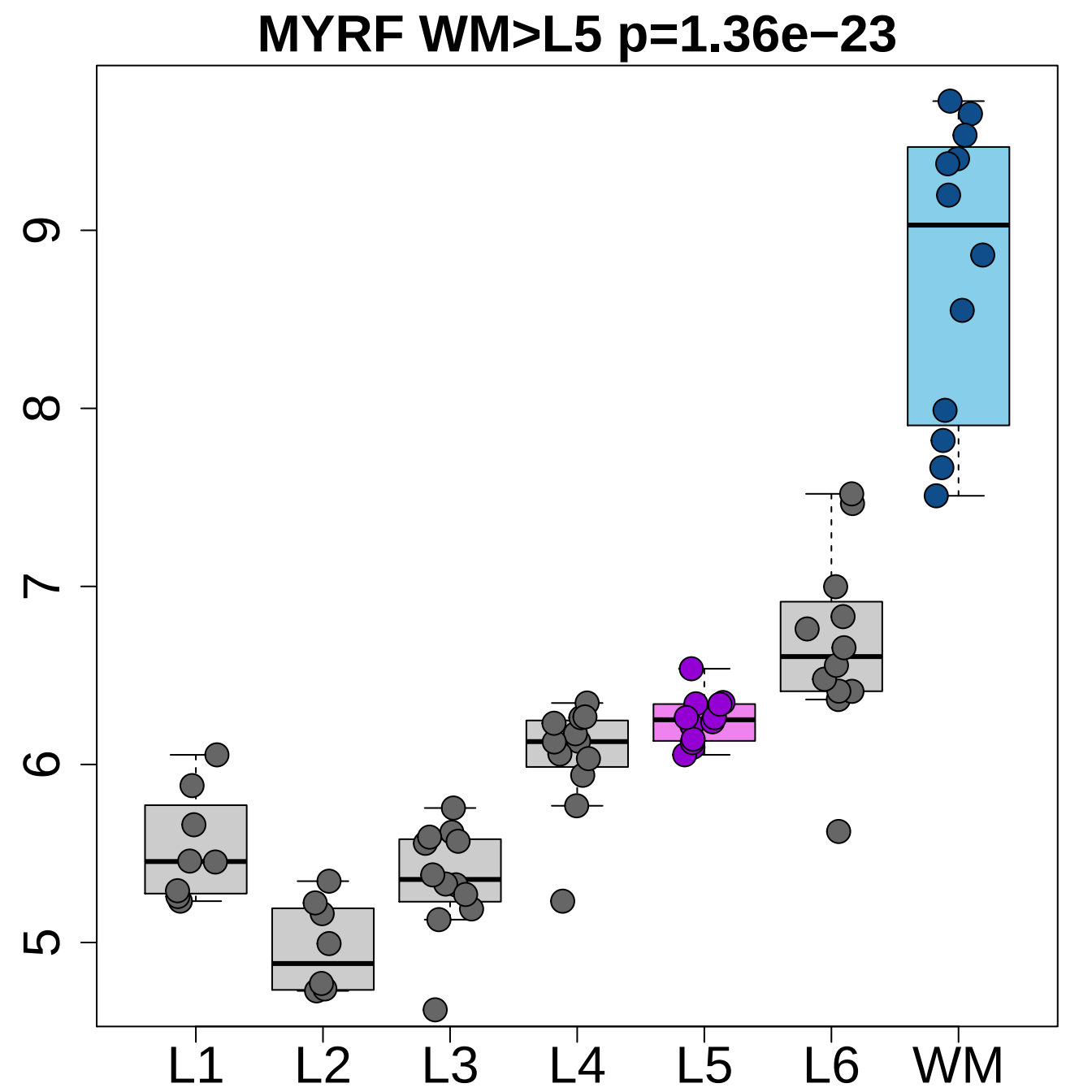
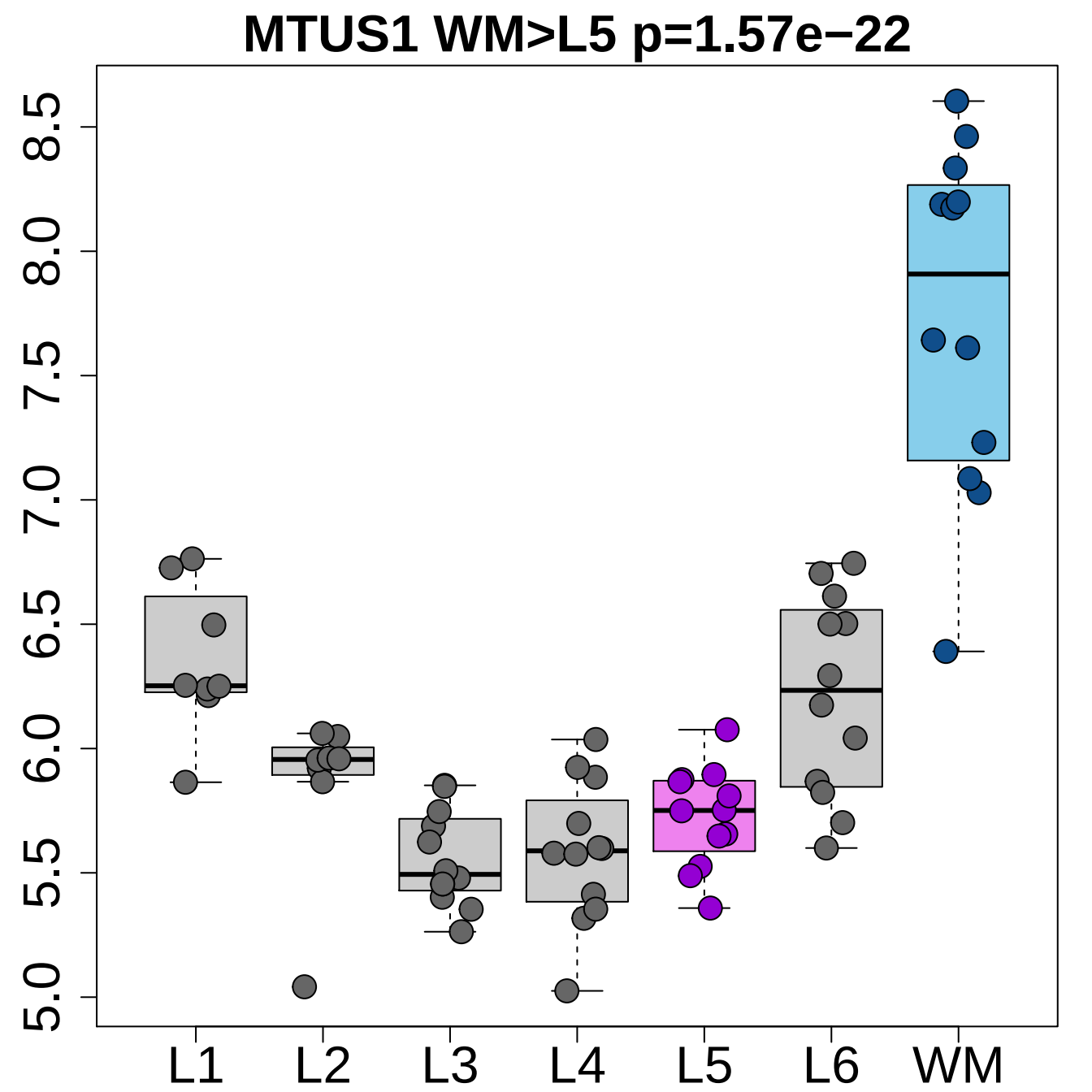
9
8
7
6
L1
L2
L3
L4
L5
L6
WM


MYRF WM>L5 p=1.36e−23
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


MTUS1 WM>L5 p=1.57e−22
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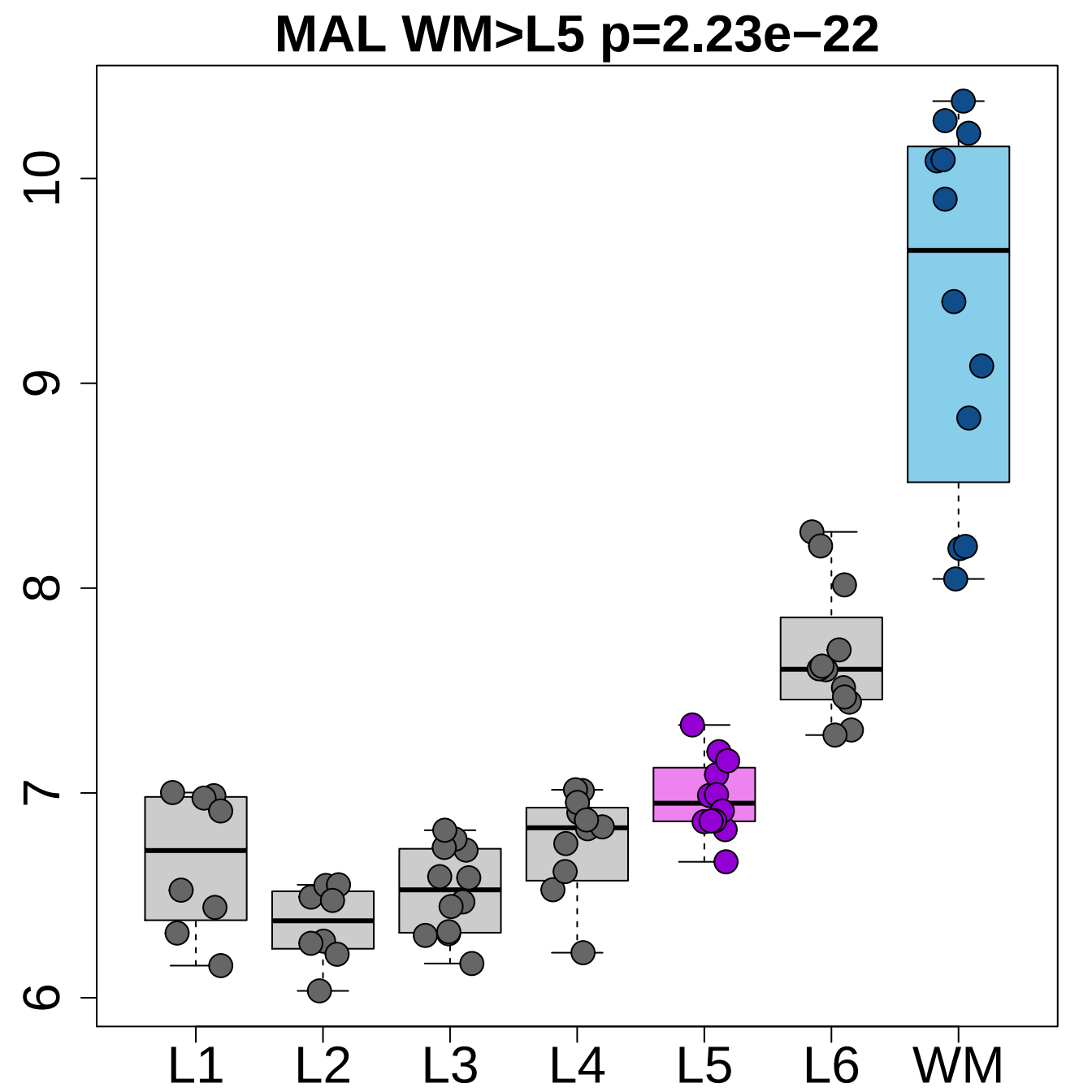
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


MAL WM>L5 p=2.23e−22
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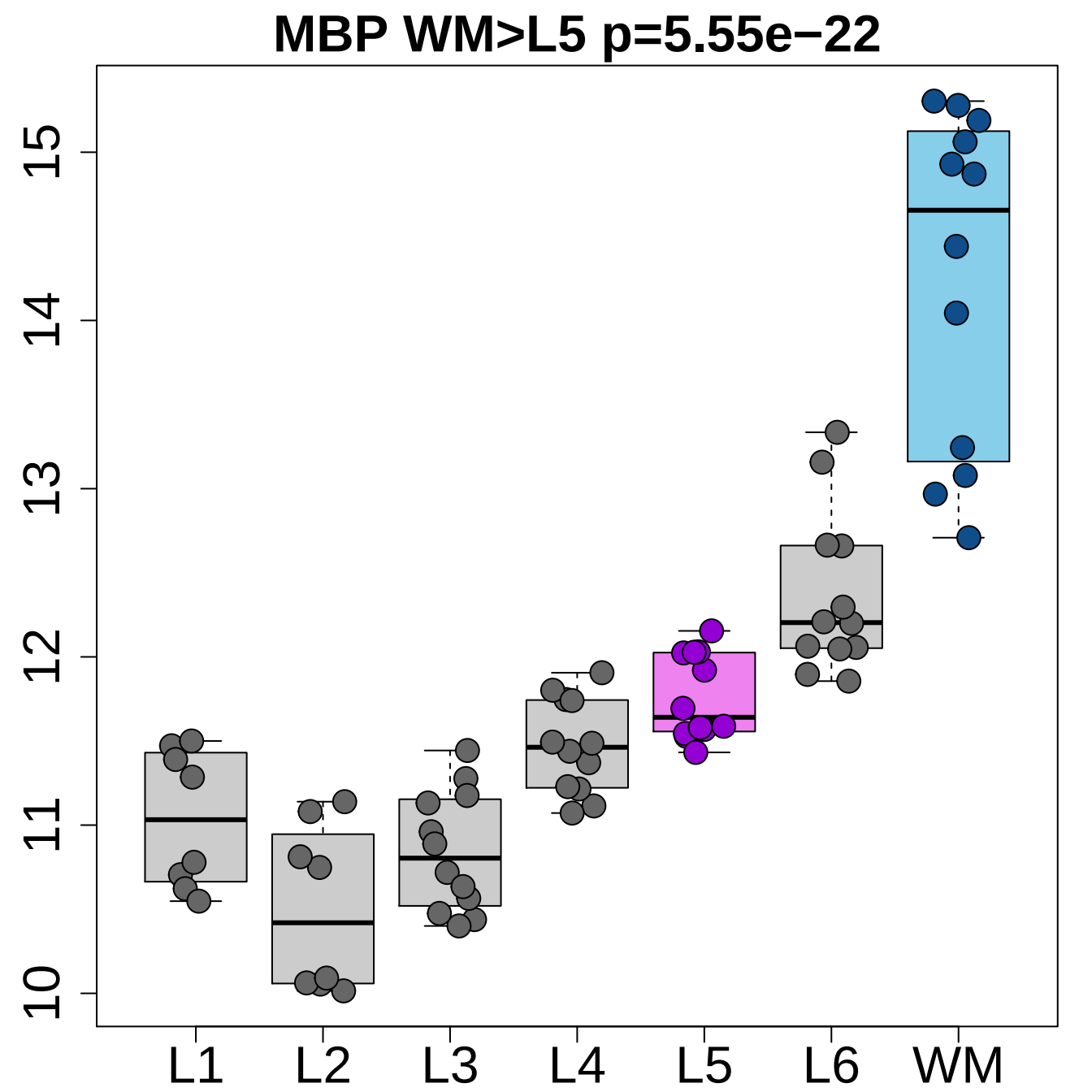
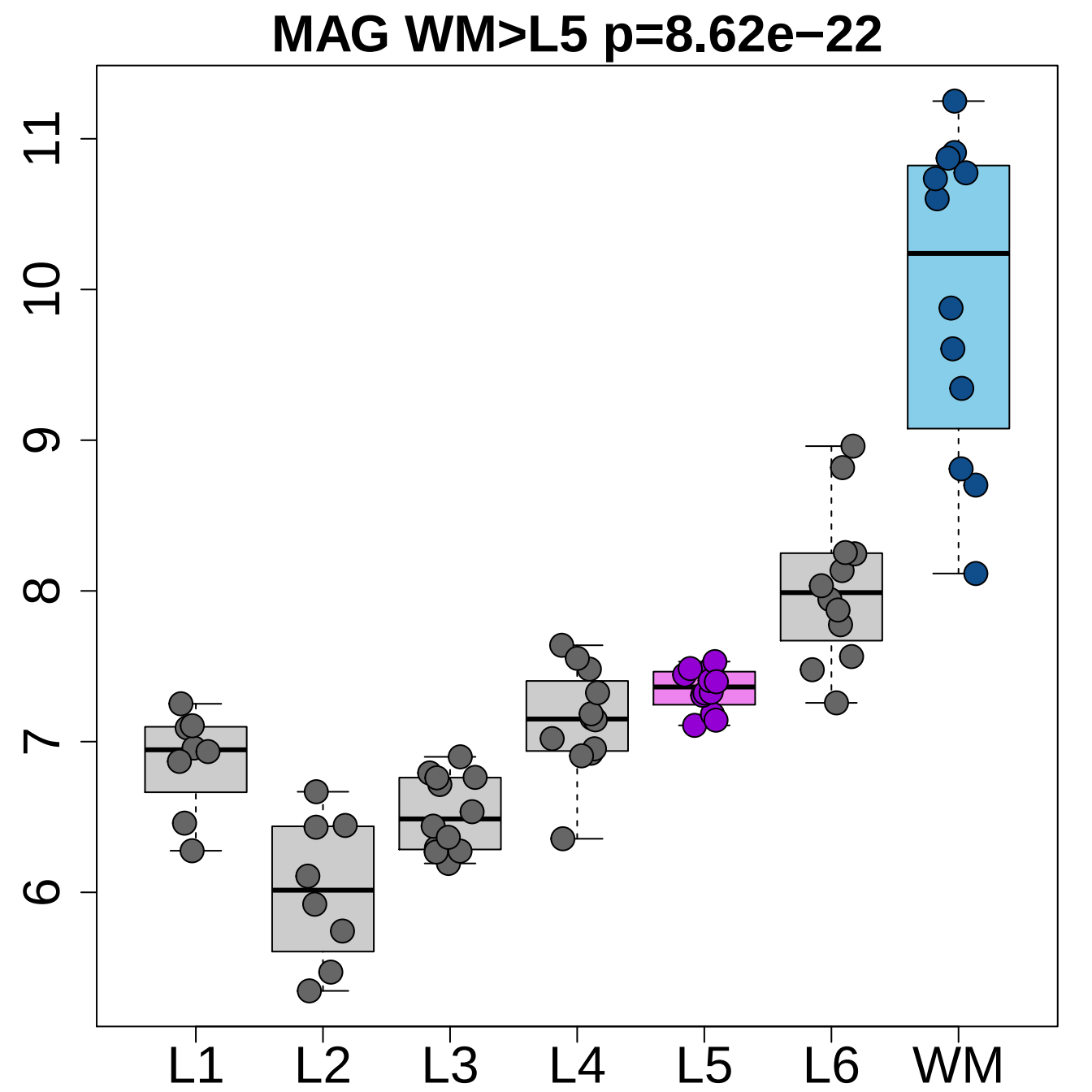
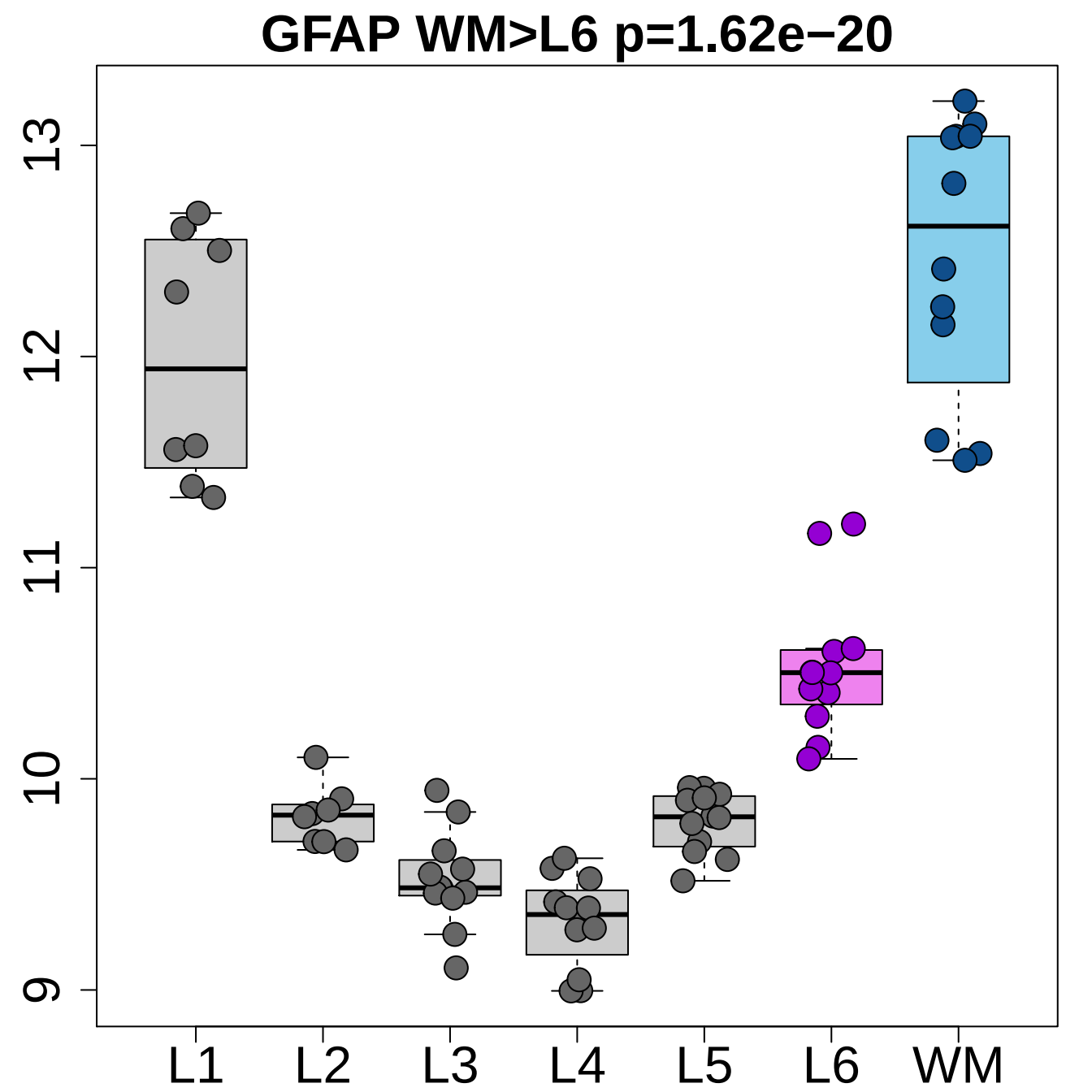
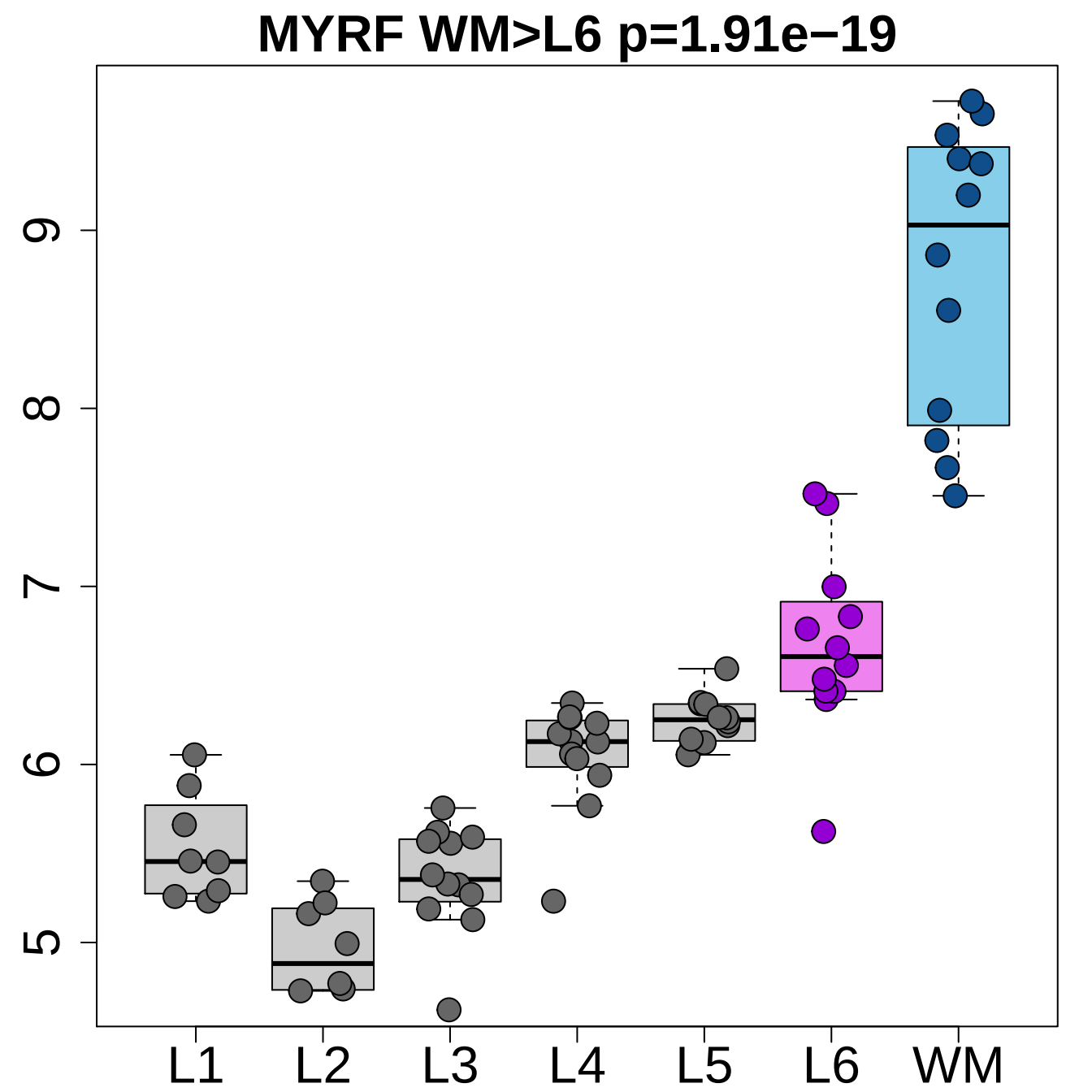
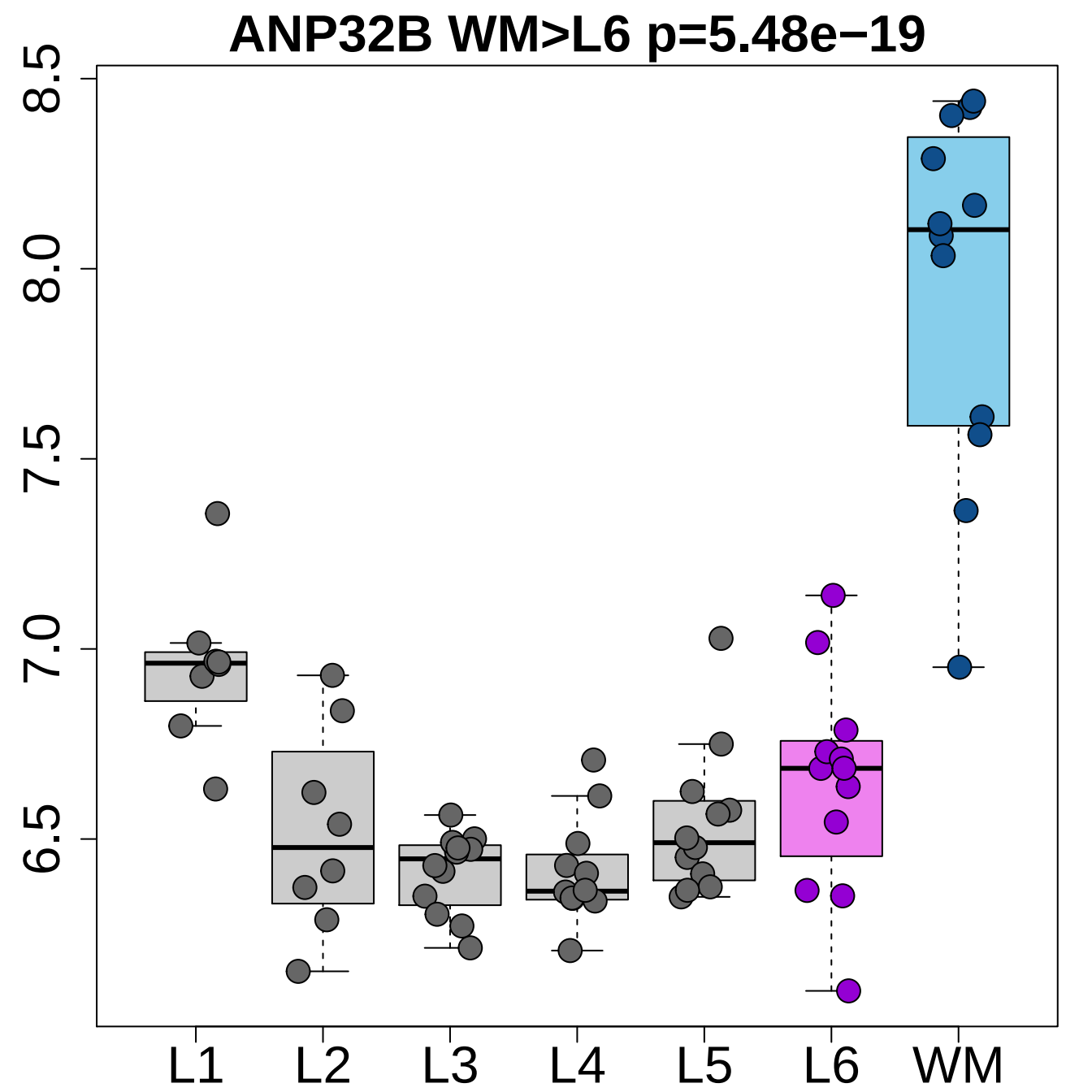
8
7
6
L1
L2
L3
L4
L5
L6
WM

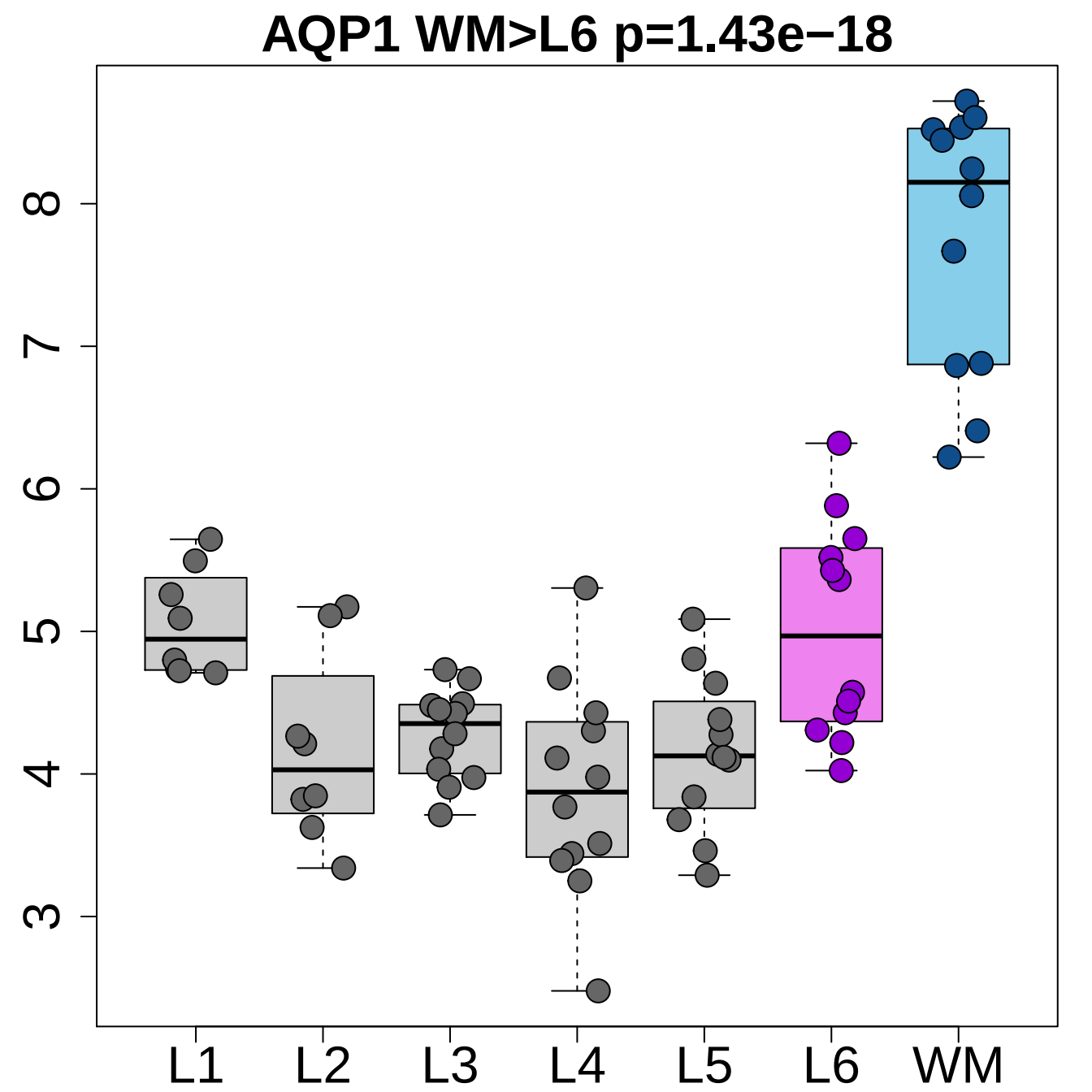

MBP WM>L5 p=5.55e−22
15
14
13
12
11
10
L1
L2
L3
L4
L5
L6
WM

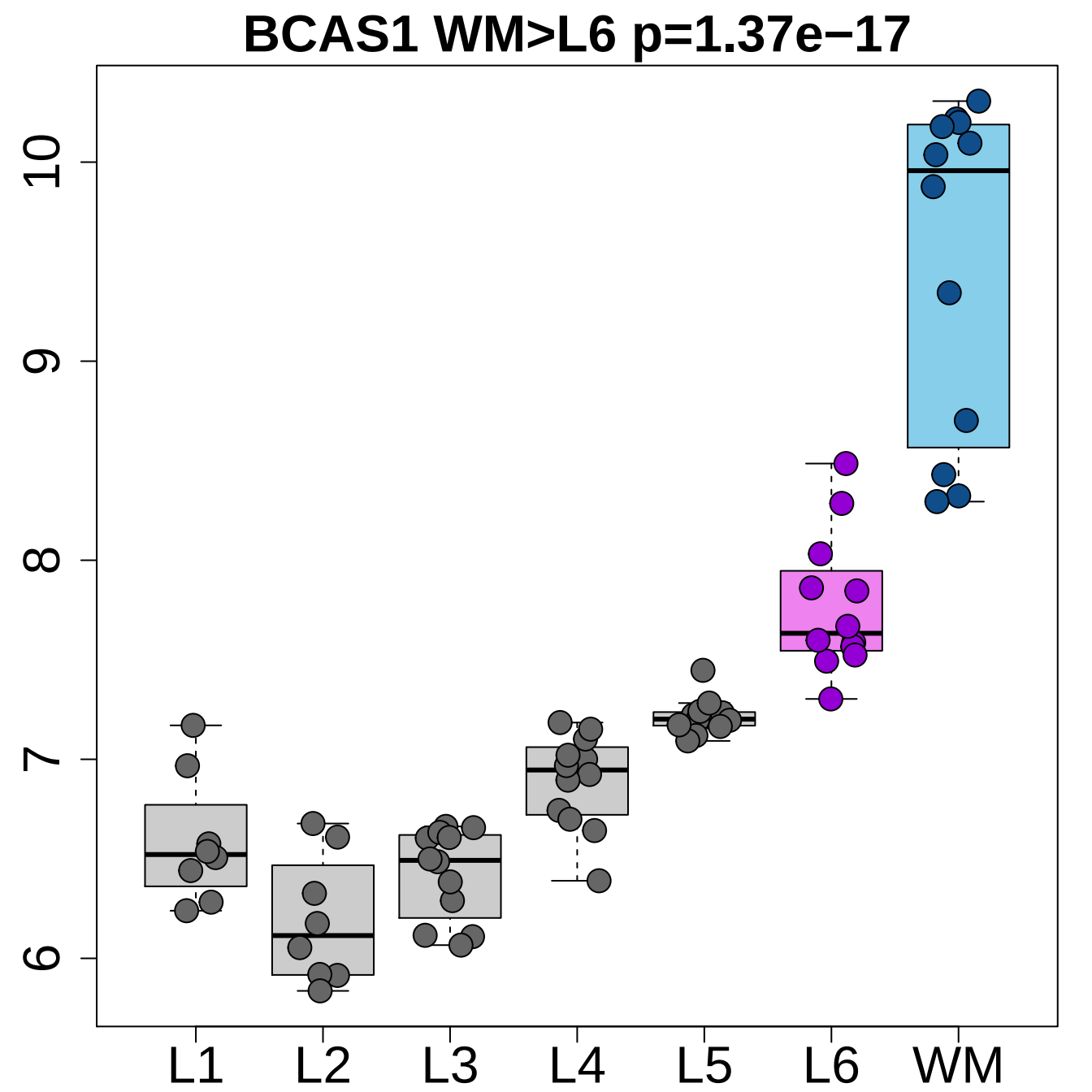

MAG WM>L5 p=8.62e−22
11
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

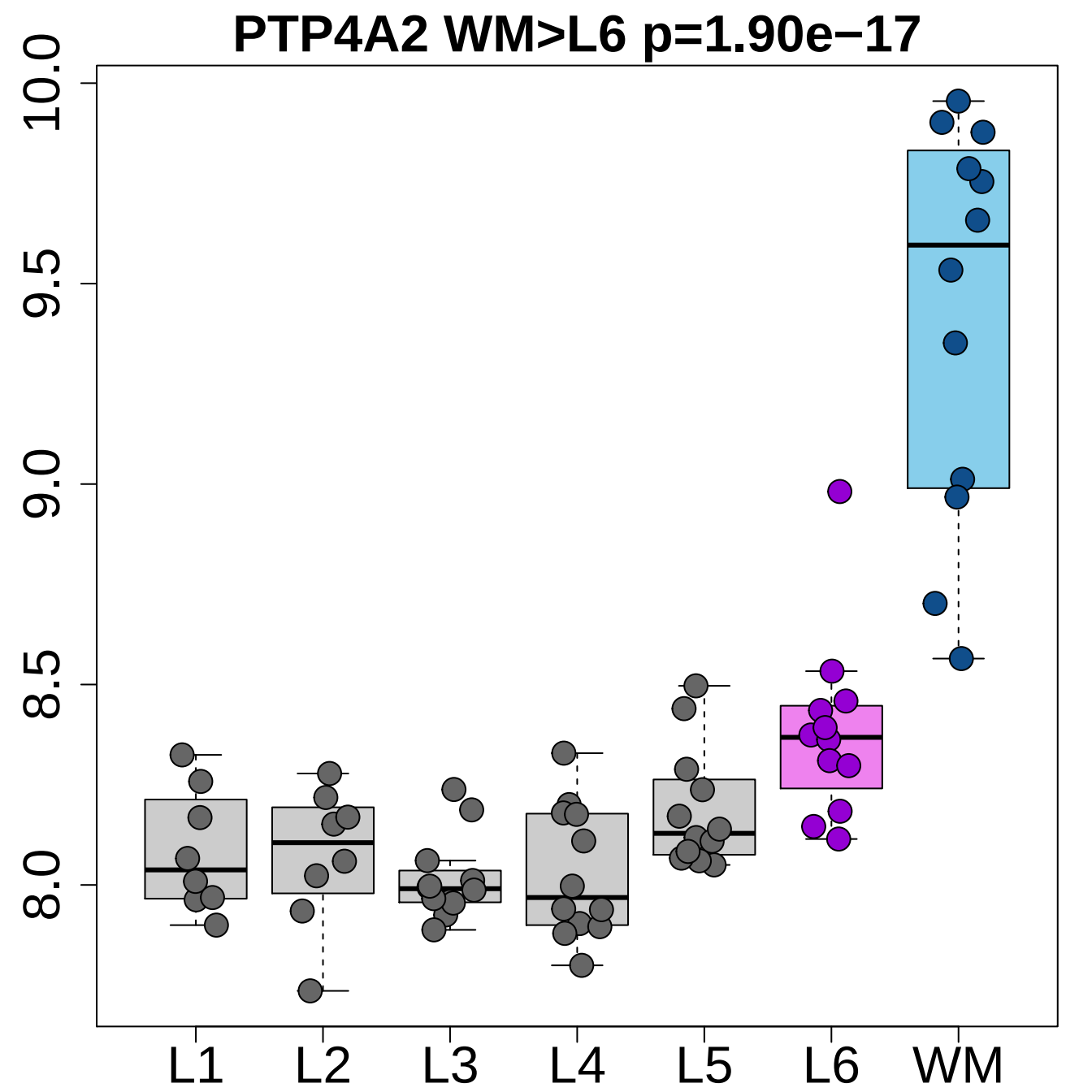

GFAP WM>L6 p=1.62e−20
13
12
11
10
9
L1
L2
L3
L4
L5
L6
WM


MYRF WM>L6 p=1.91e−19
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


ANP32B WM>L6 p=5.48e−19
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


AQP1 WM>L6 p=1.43e−18
8
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


BCAS1 WM>L6 p=1.37e−17
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM


PTP4A2 WM>L6 p=1.90e−17
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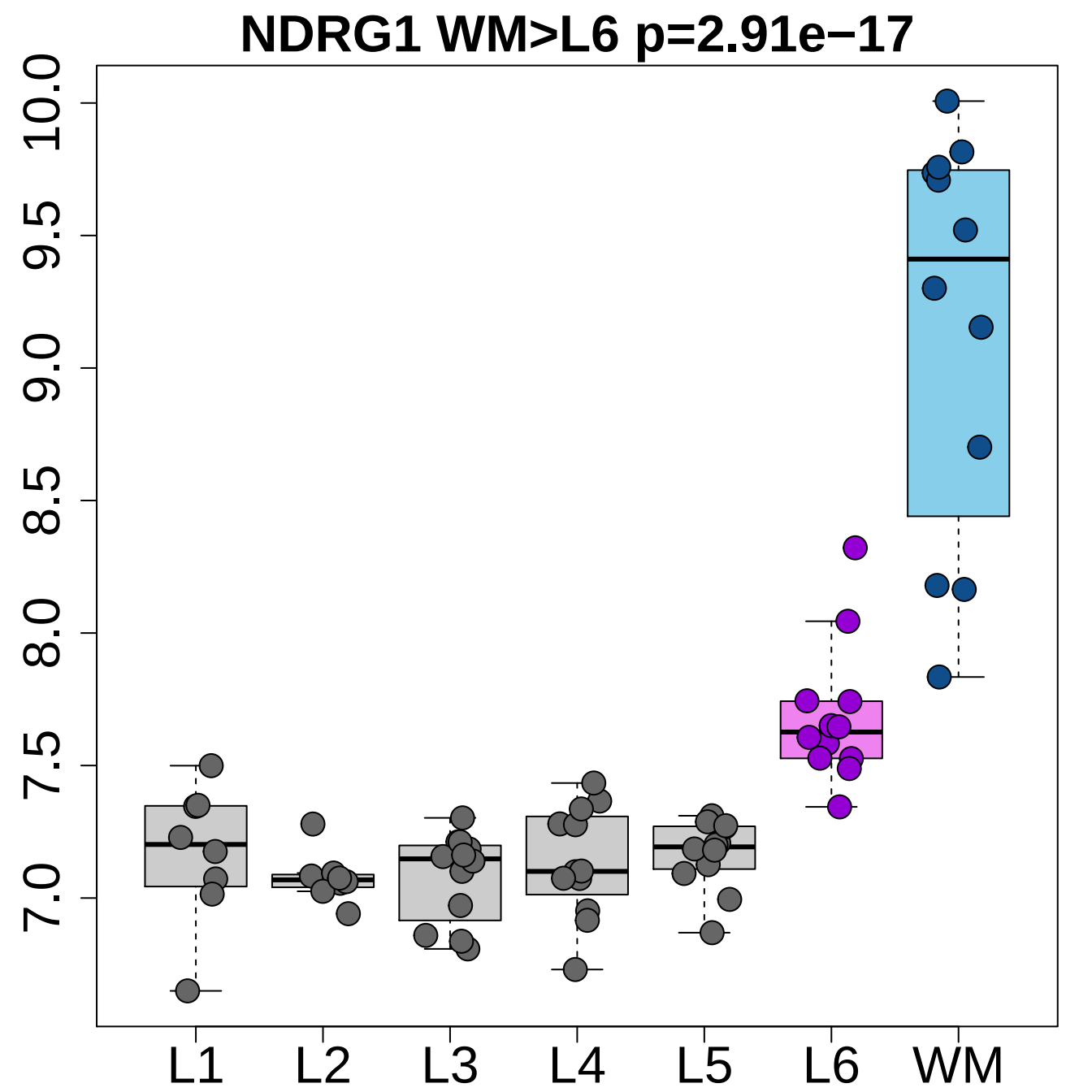
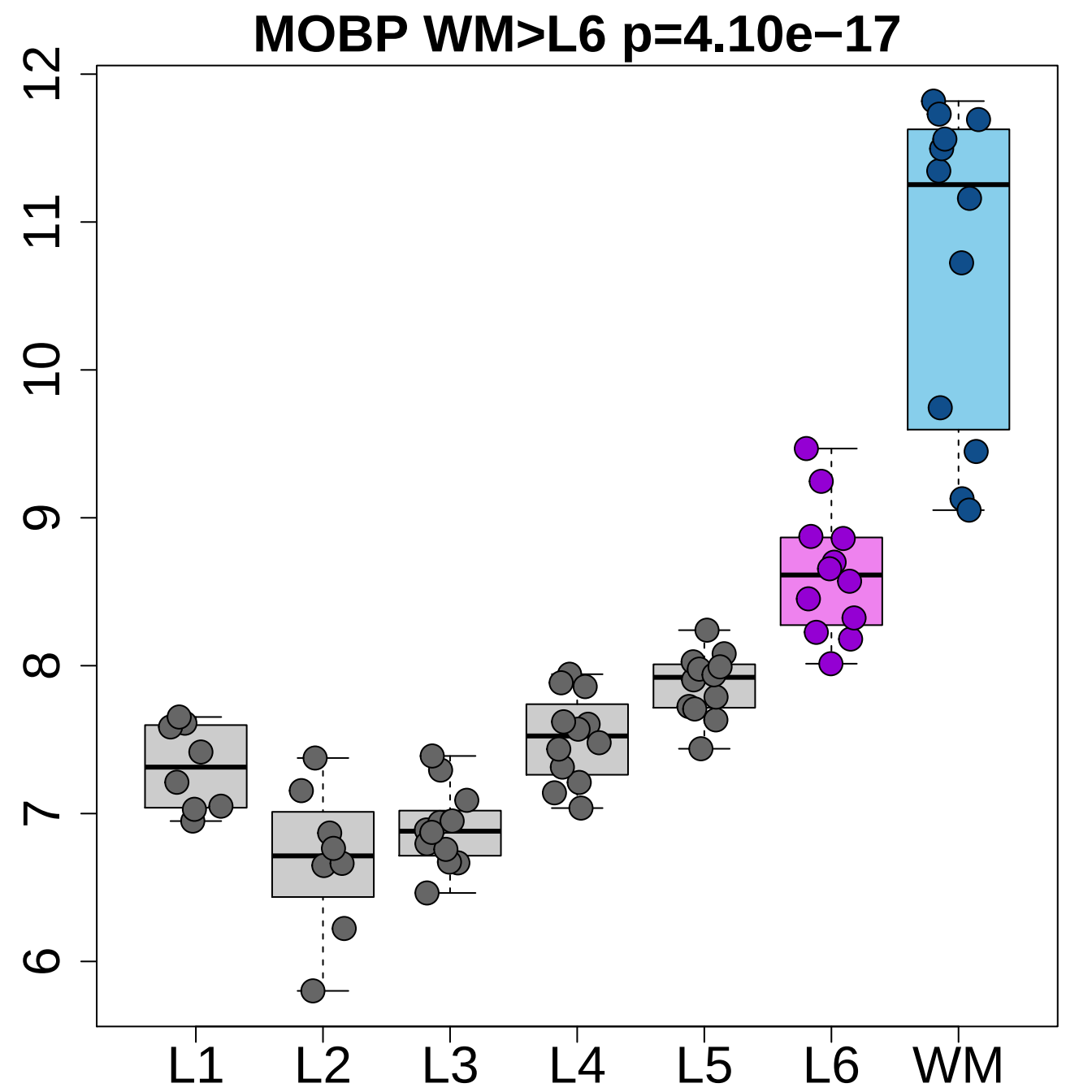
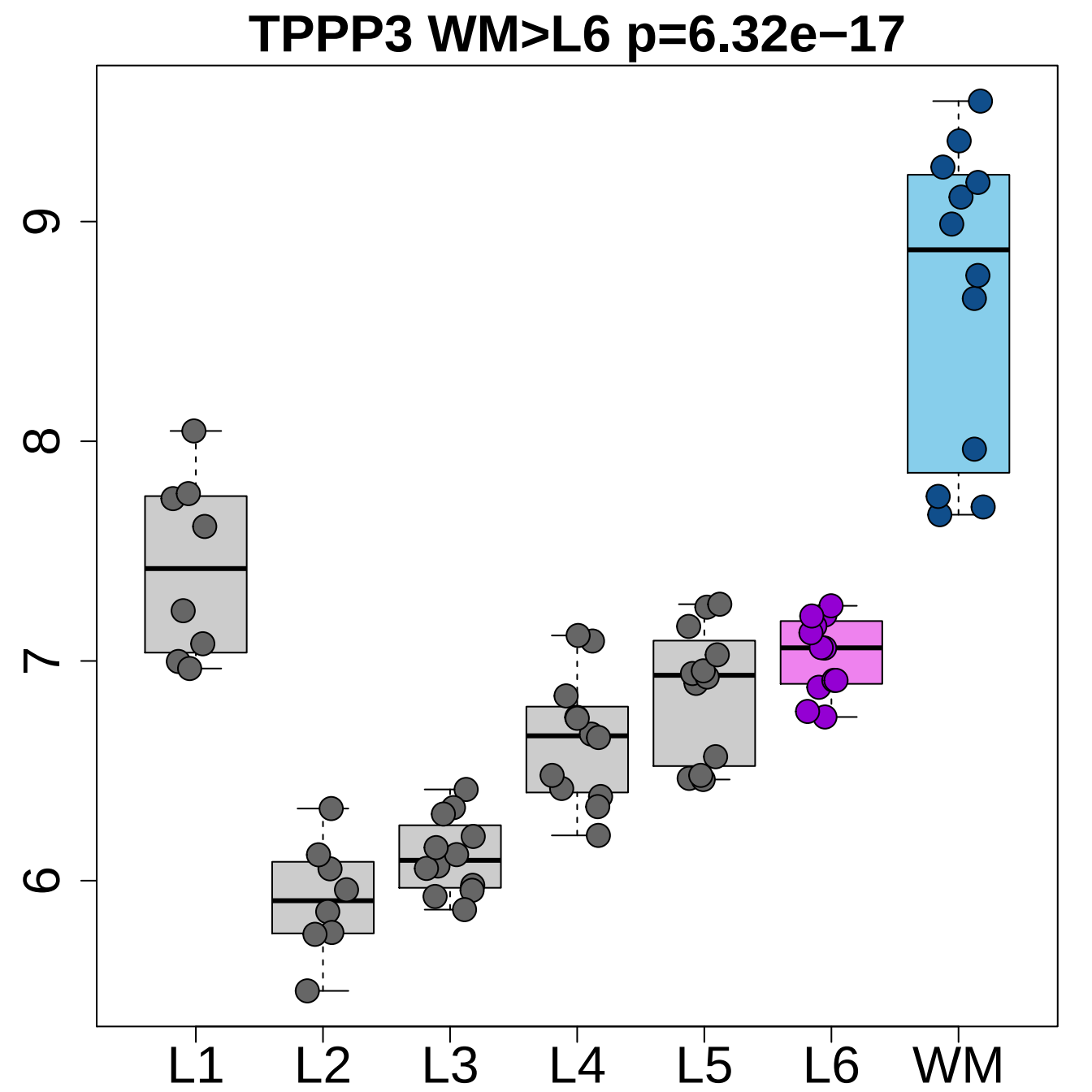
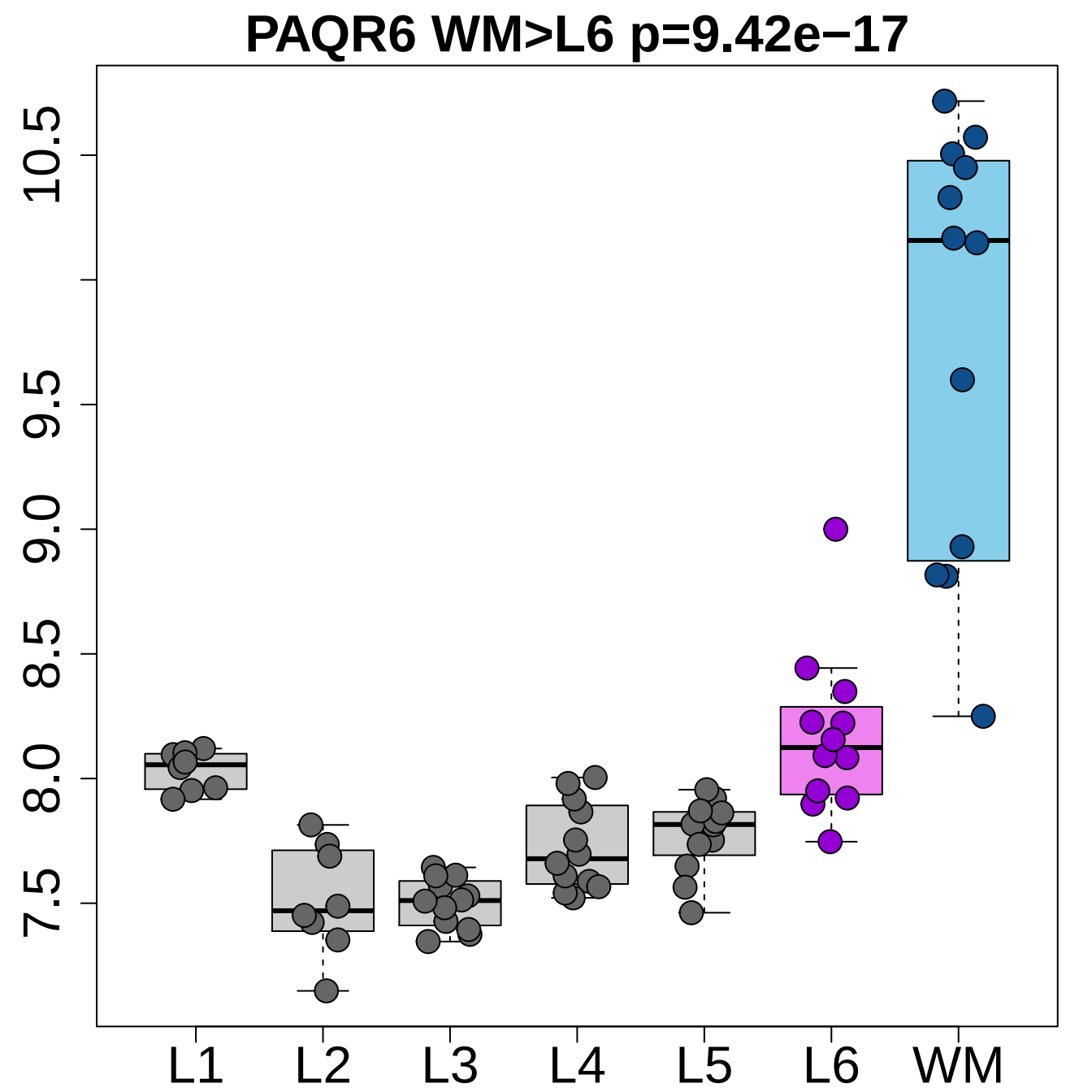
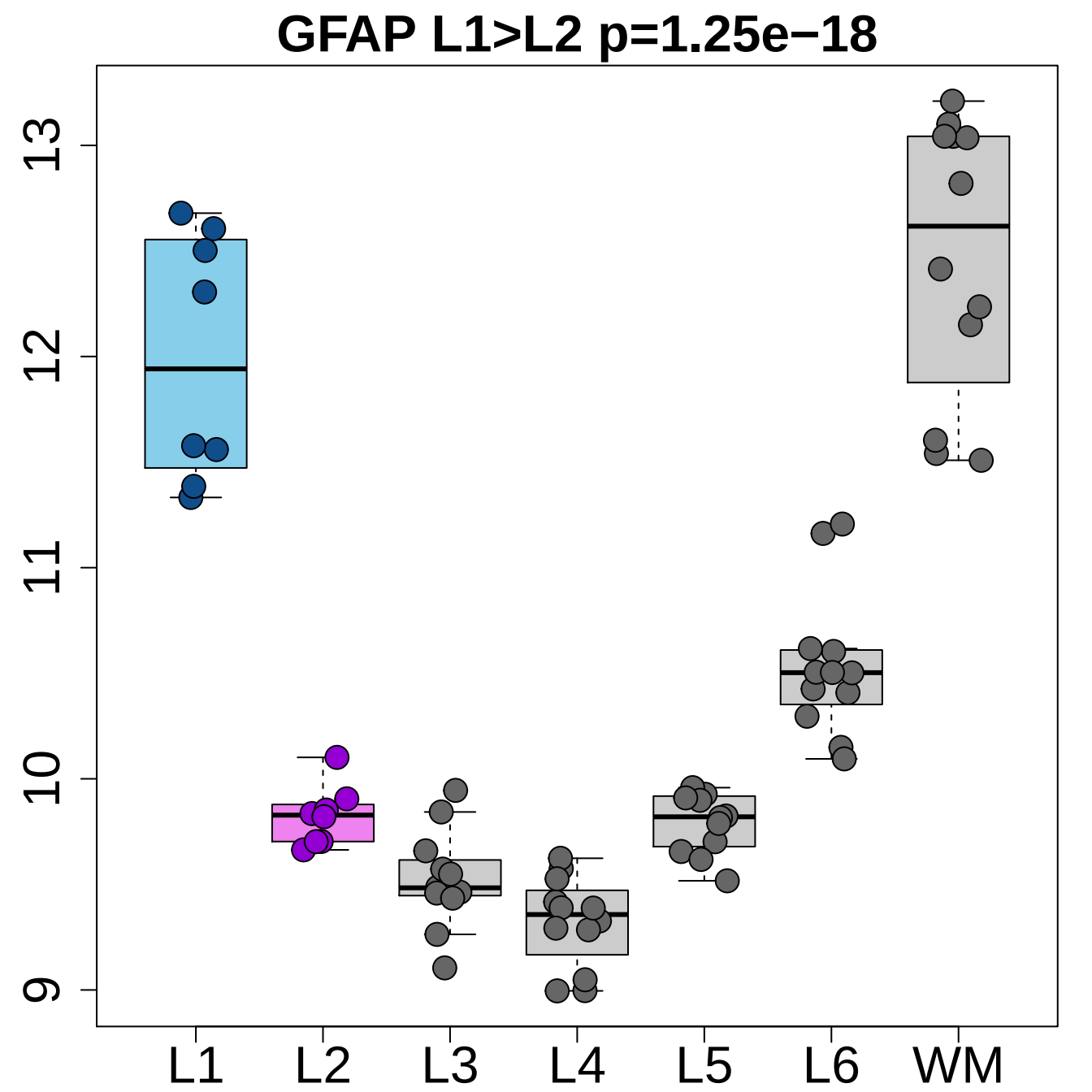
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

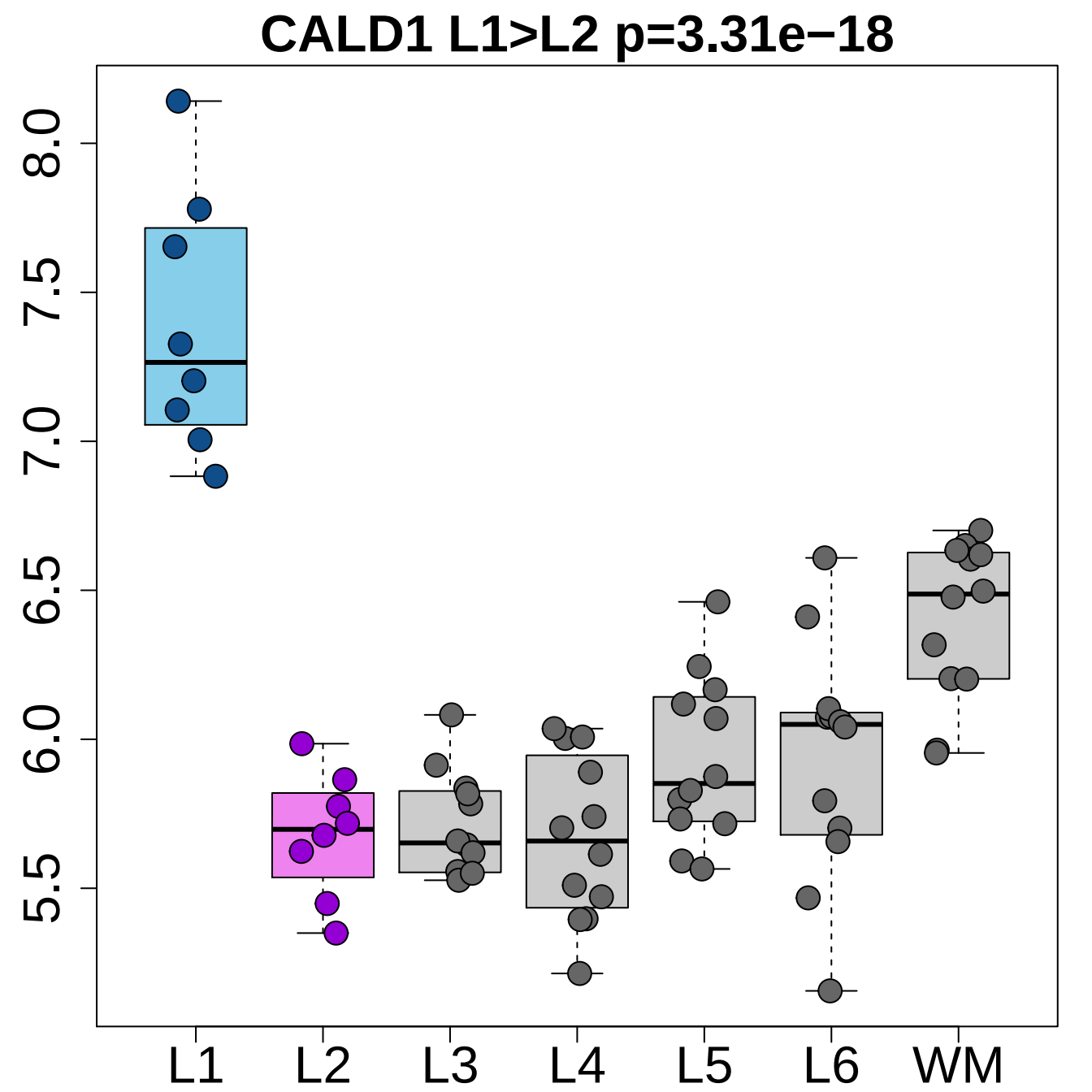

NDRG1 WM>L6 p=2.91e−17
10.0
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

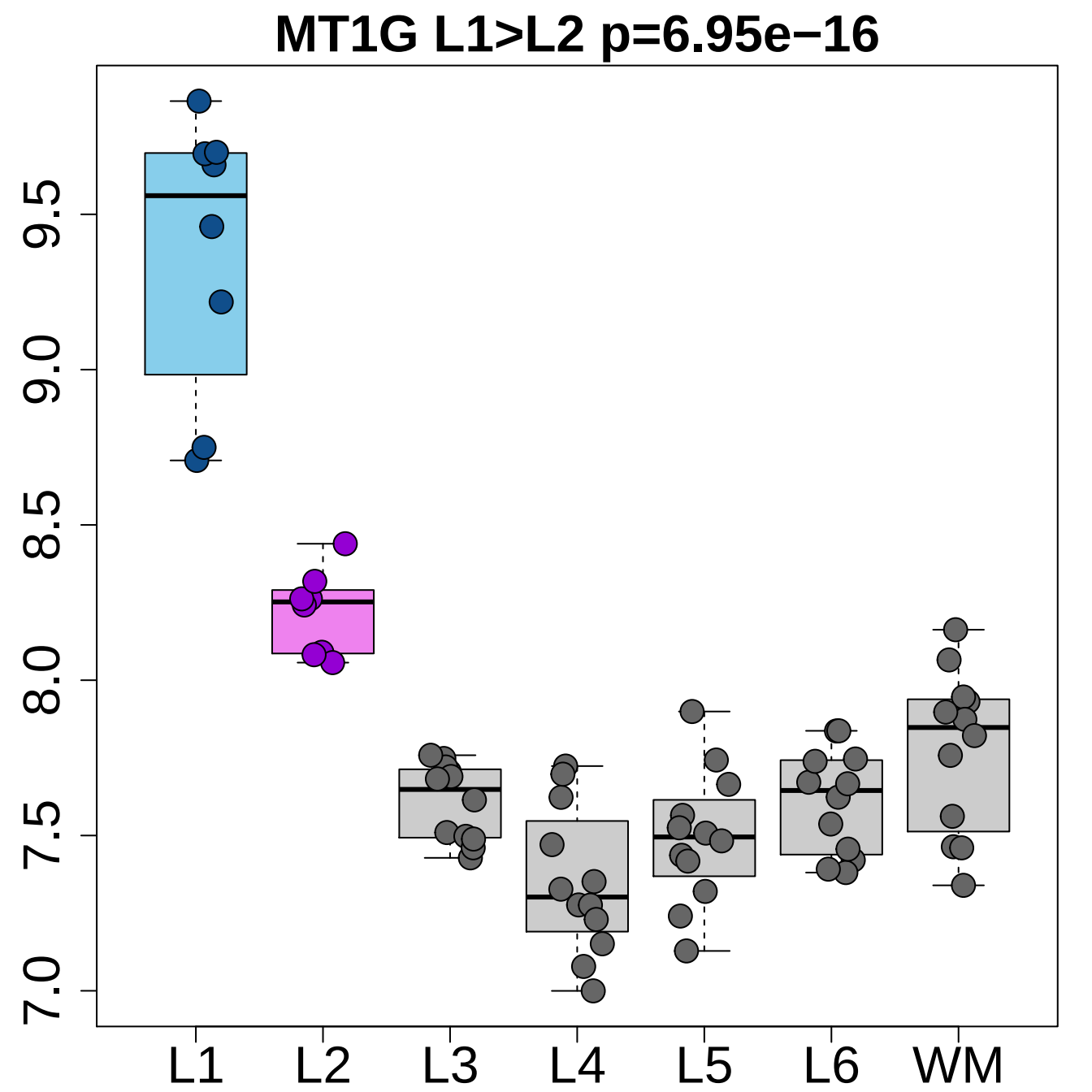

MOBP WM>L6 p=4.10e−17
12
11
10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

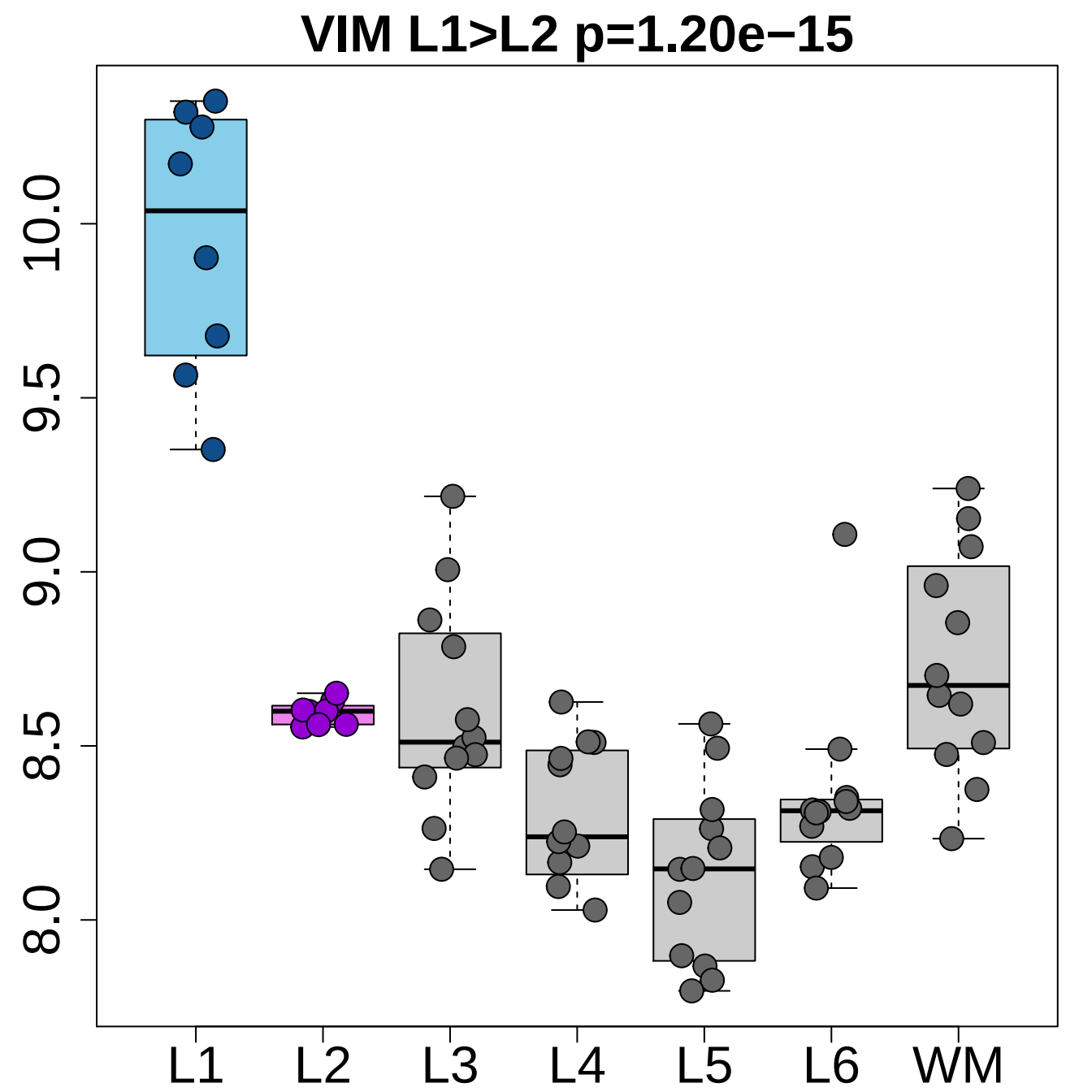

TPPP3 WM>L6 p=6.32e−17
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

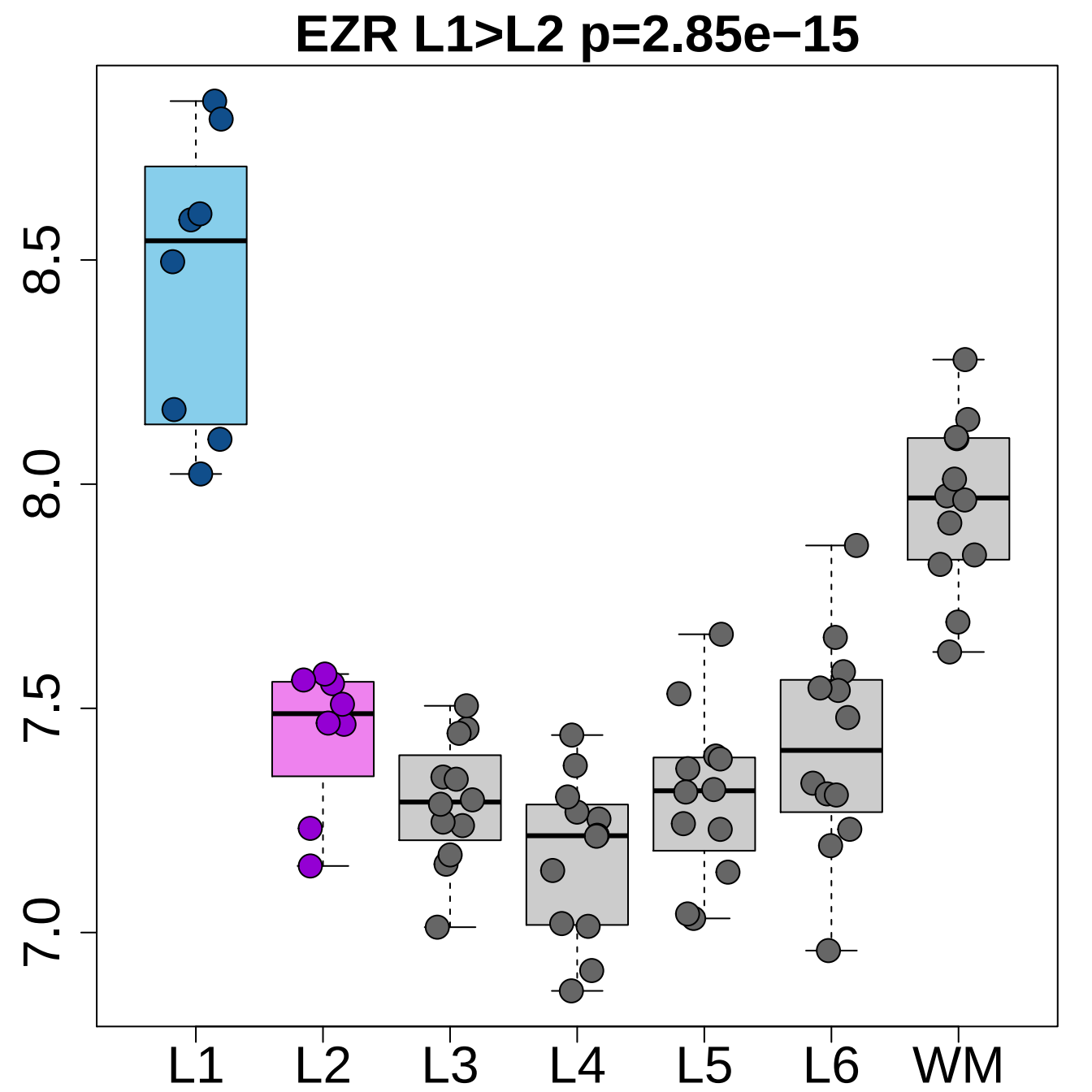

PAQR6 WM>L6 p=9.42e−17
10.5
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

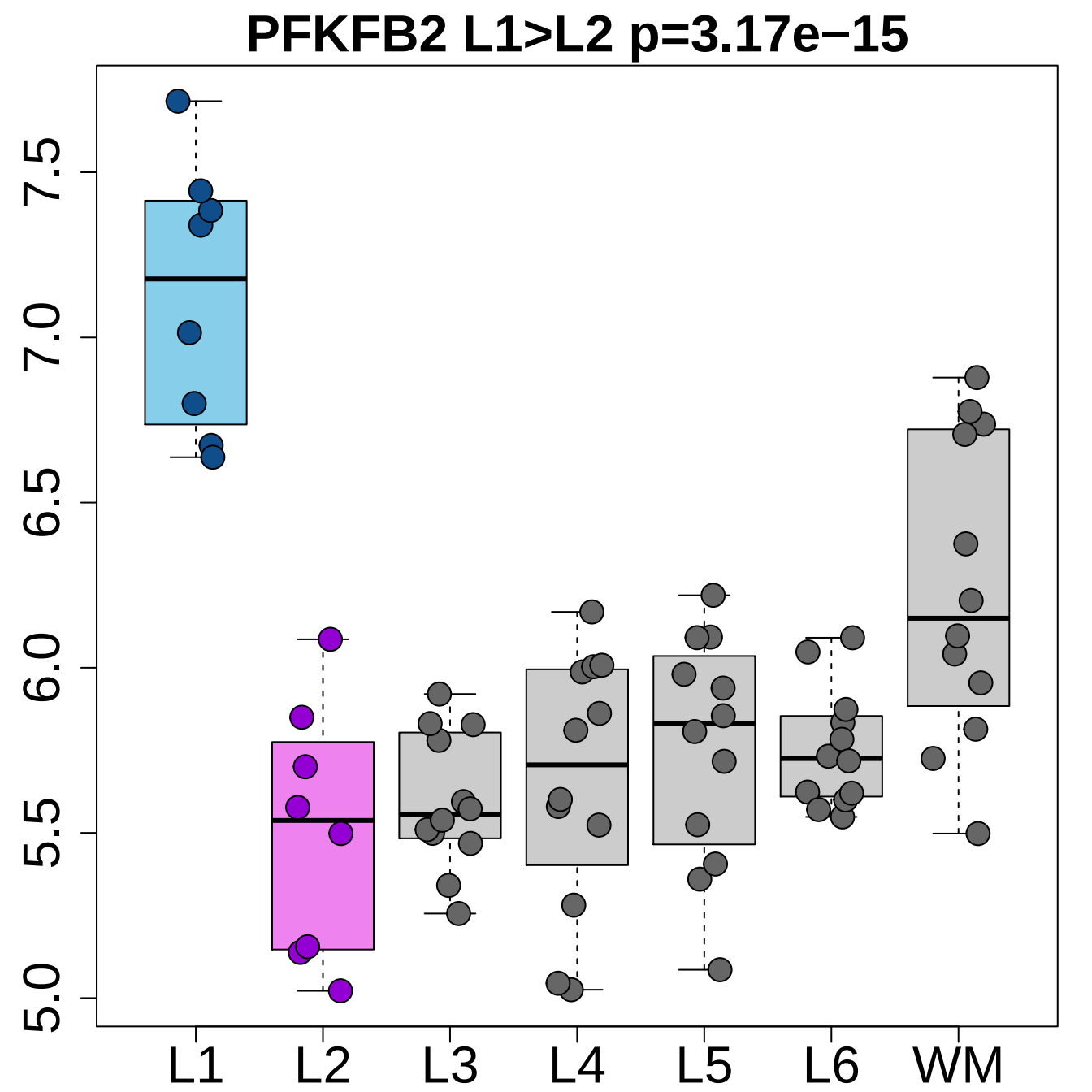

GFAP L1>L2 p=1.25e−18
13
12
11
10
9
L1
L2
L3
L4
L5
L6
WM

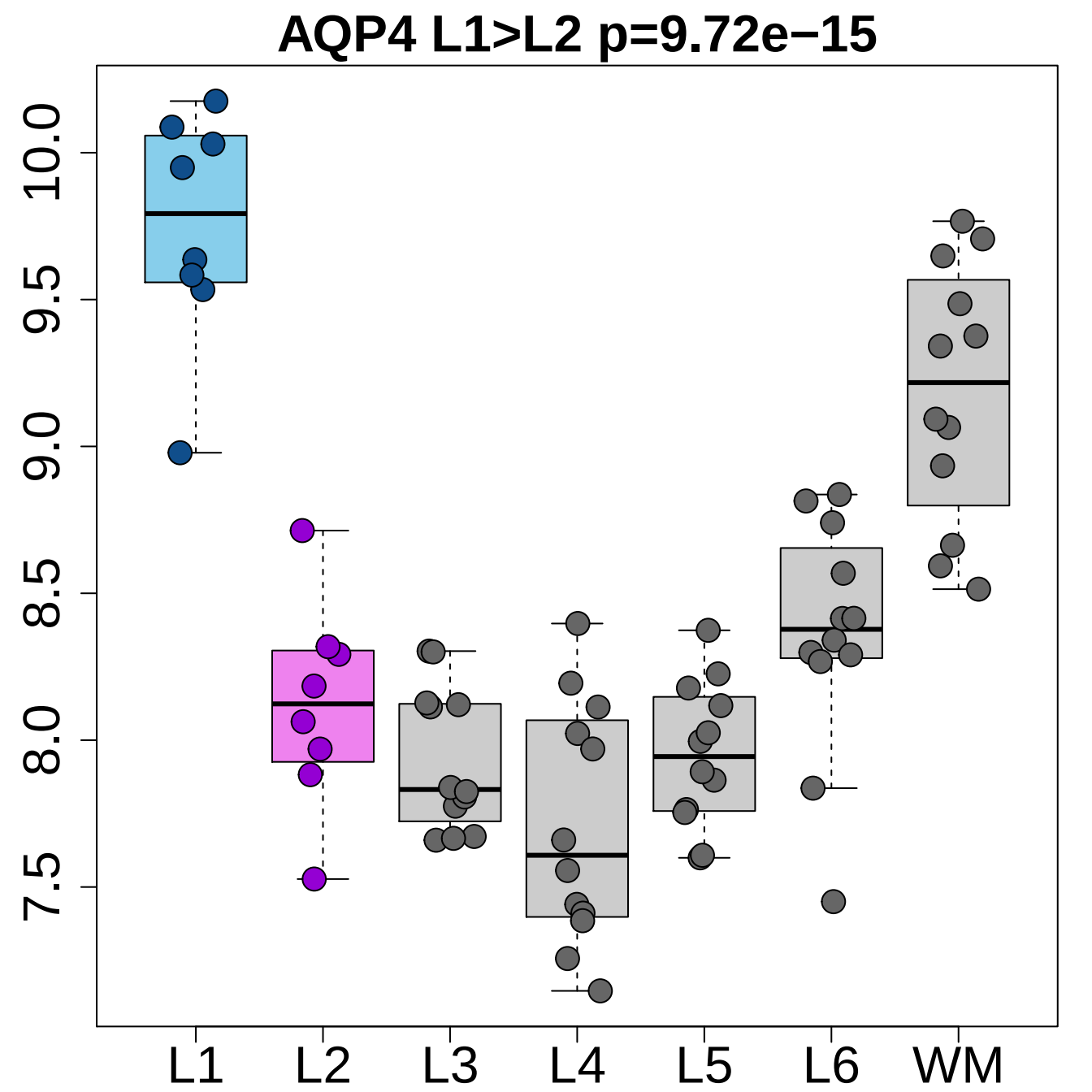

CALD1 L1>L2 p=3.31e−18
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

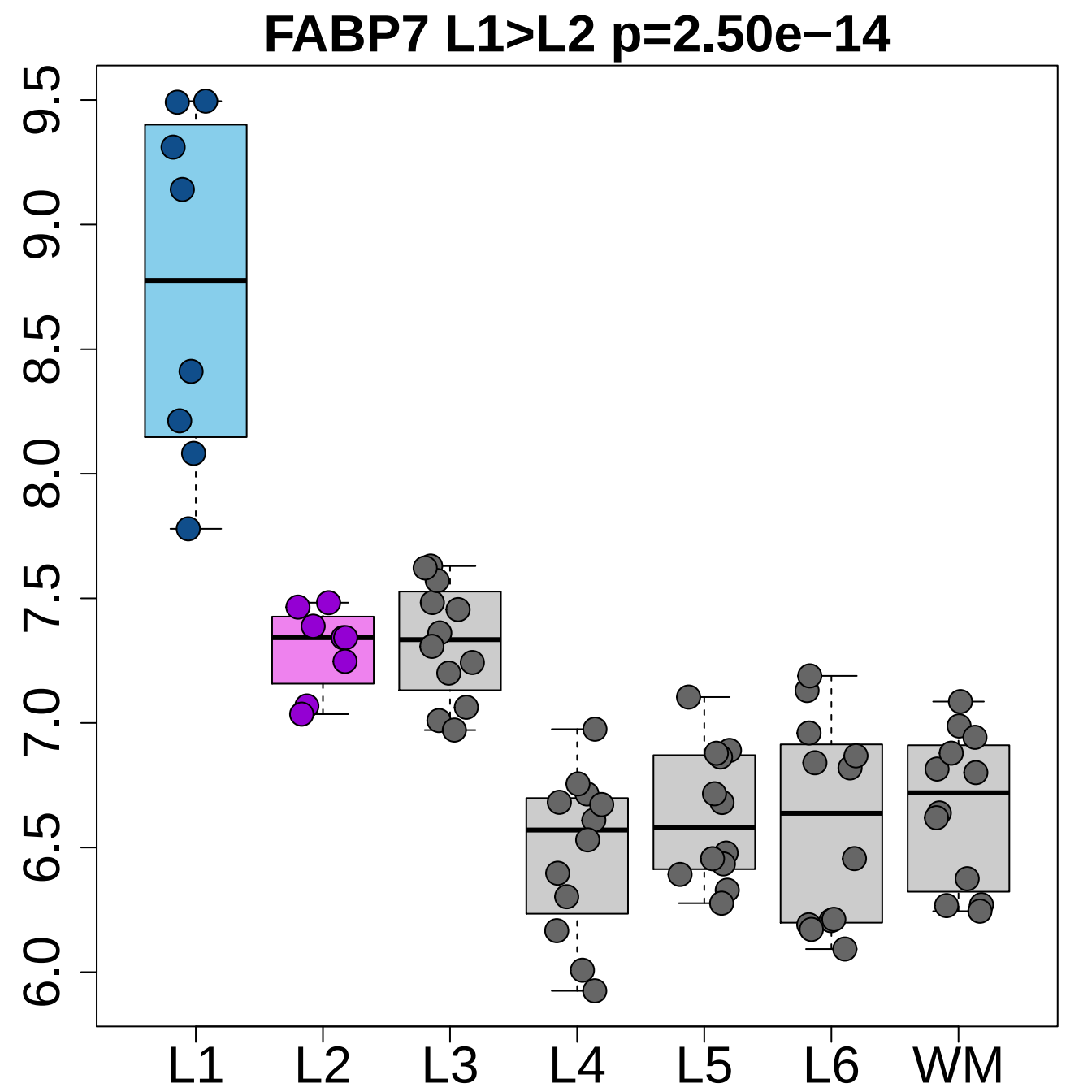

MT1G L1>L2 p=6.95e−16
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

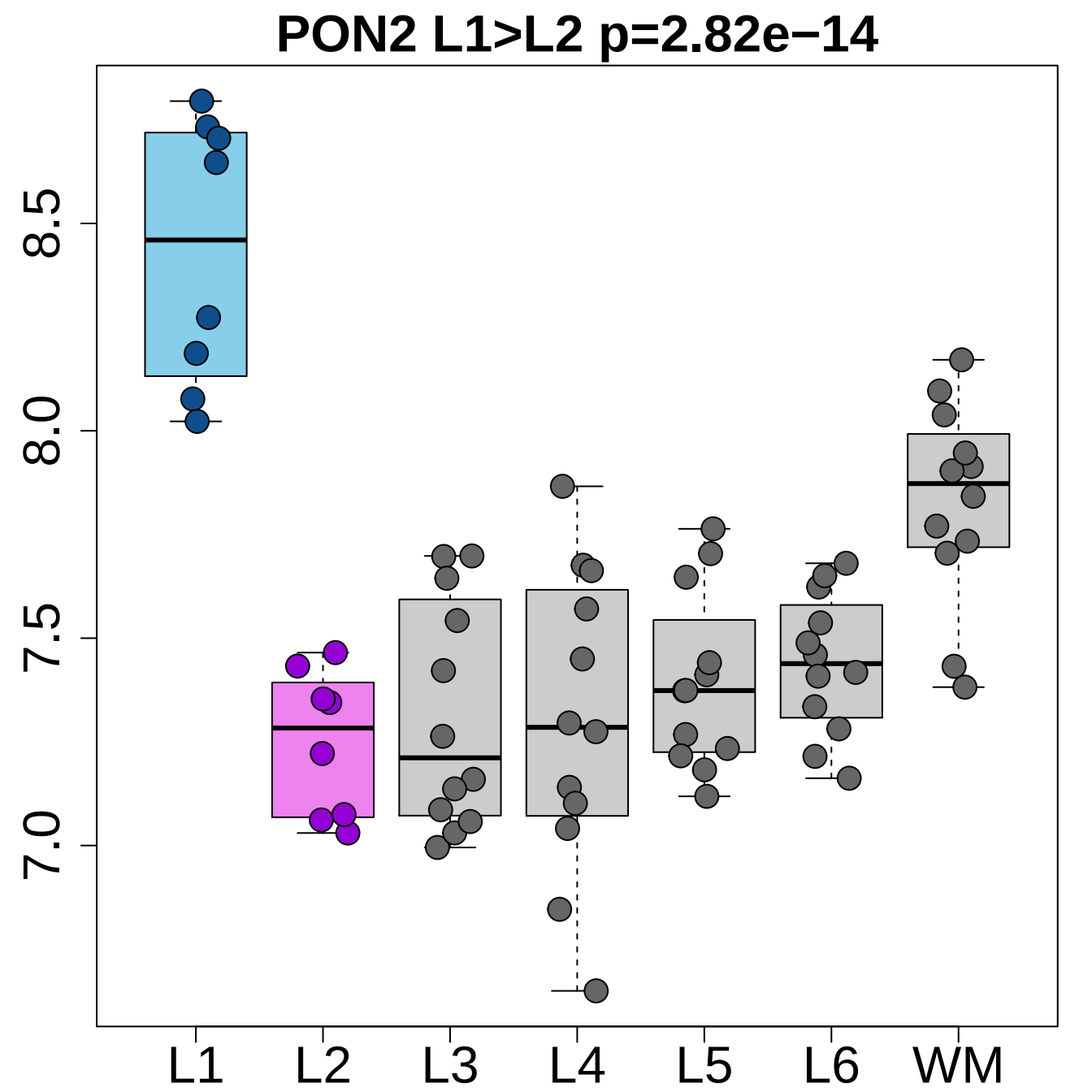

VIM L1>L2 p=1.20e−15
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

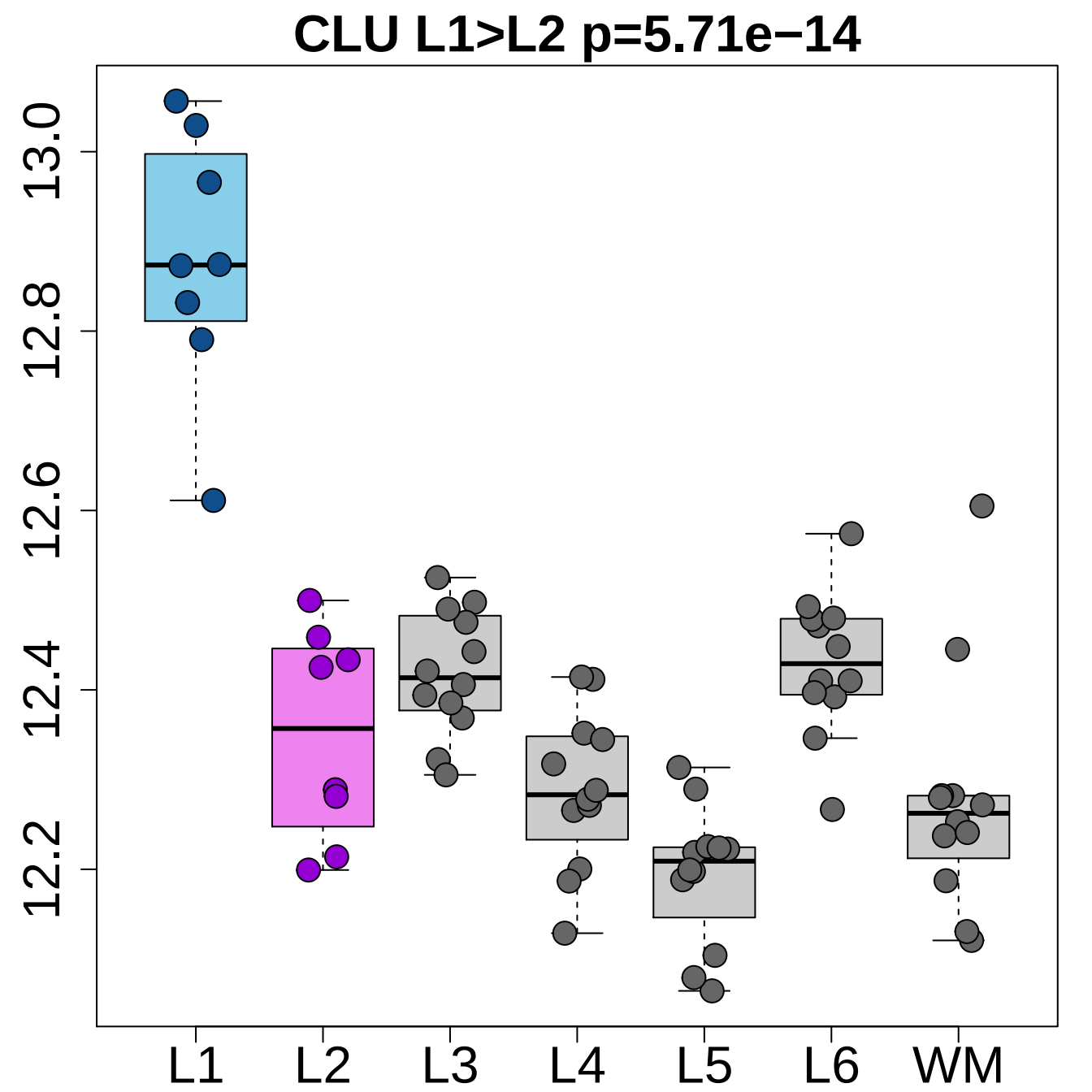

EZR L1>L2 p=2.85e−15
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

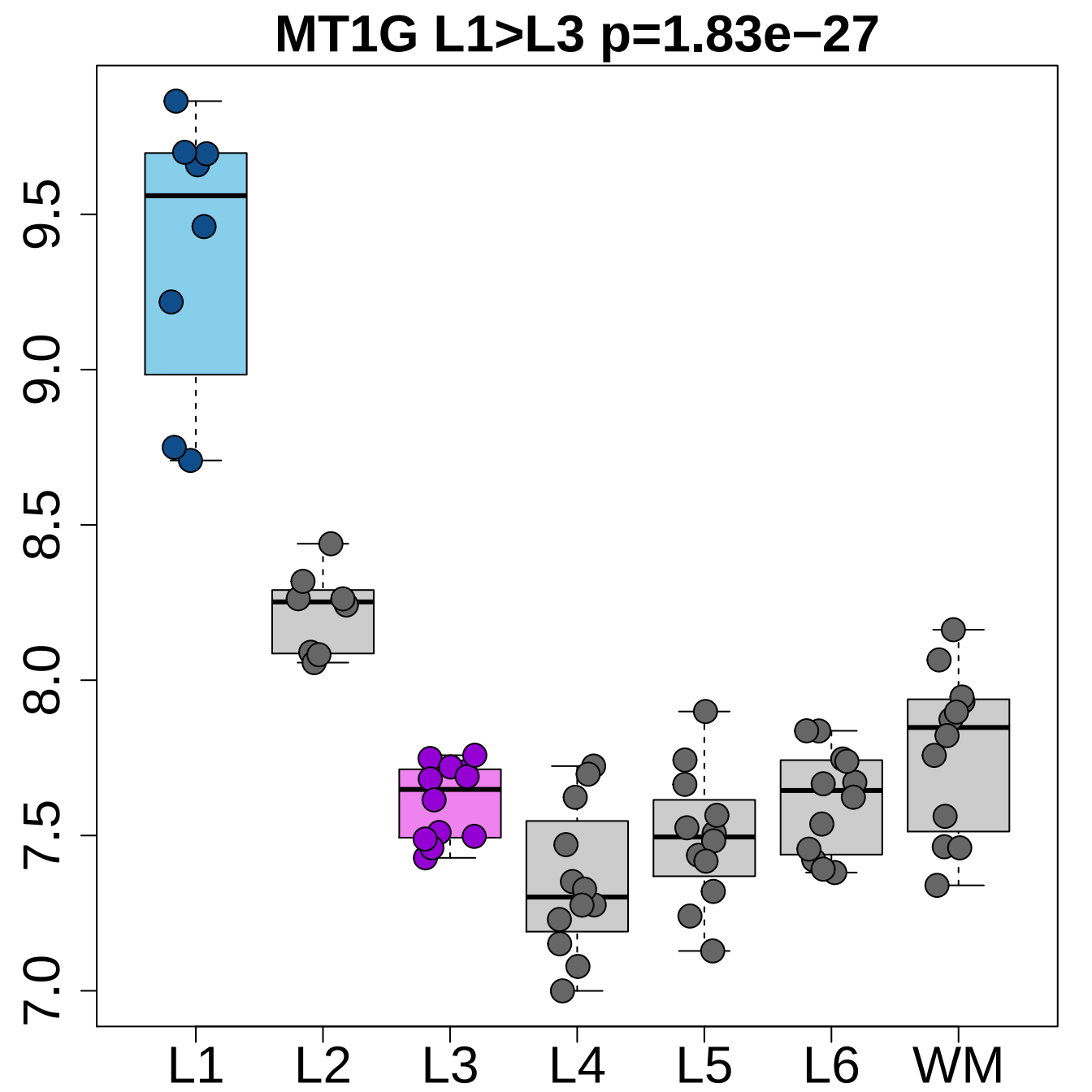

PFKFB2 L1>L2 p=3.17e−15
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


AQP4 L1>L2 p=9.72e−15
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


FABP7 L1>L2 p=2.50e−14
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


PON2 L1>L2 p=2.82e−14
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


CLU L1>L2 p=5.71e−14
13.0
12.8
12.6
12.4
12.2
L1
L2
L3
L4
L5
L6
WM


MT1G L1>L3 p=1.83e−27
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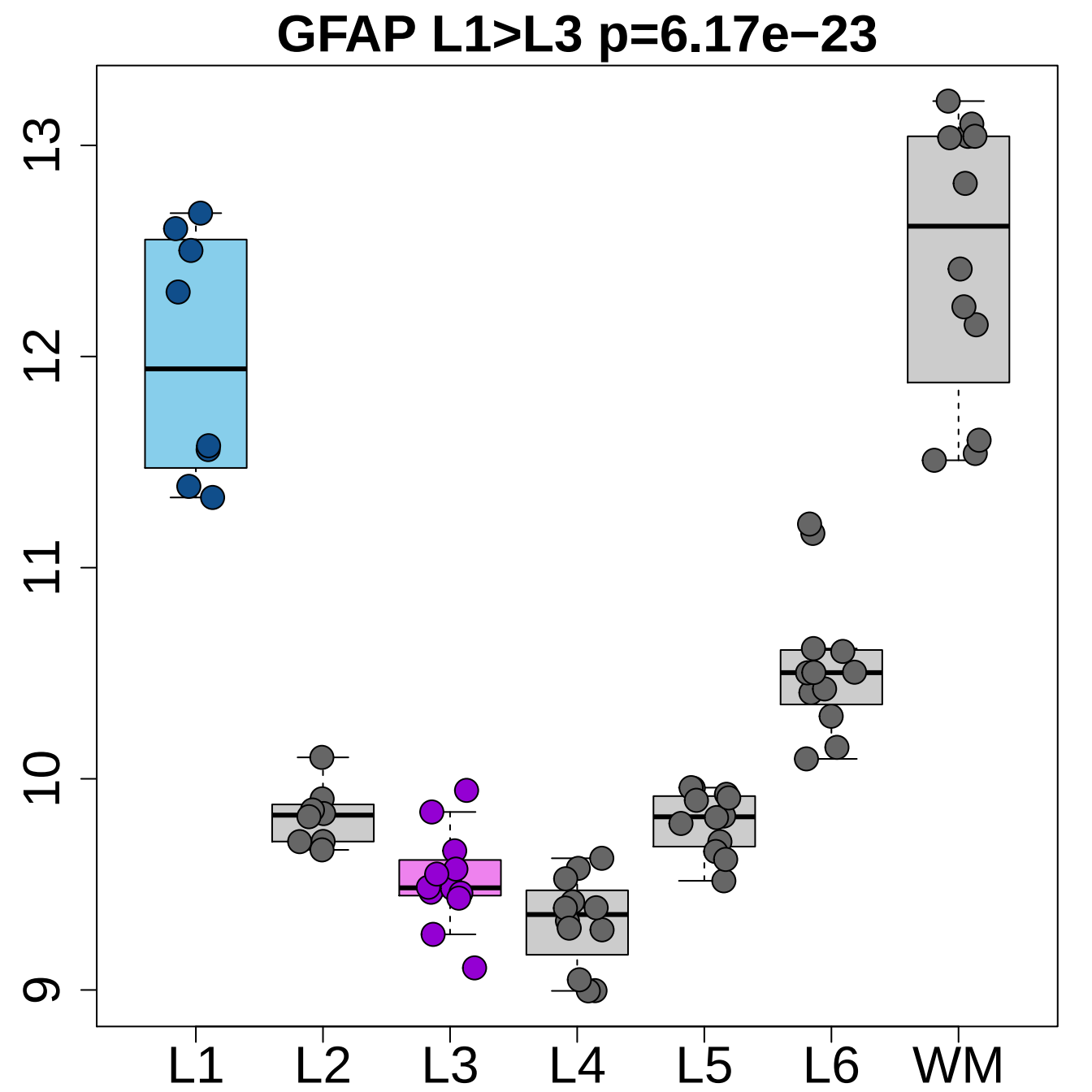
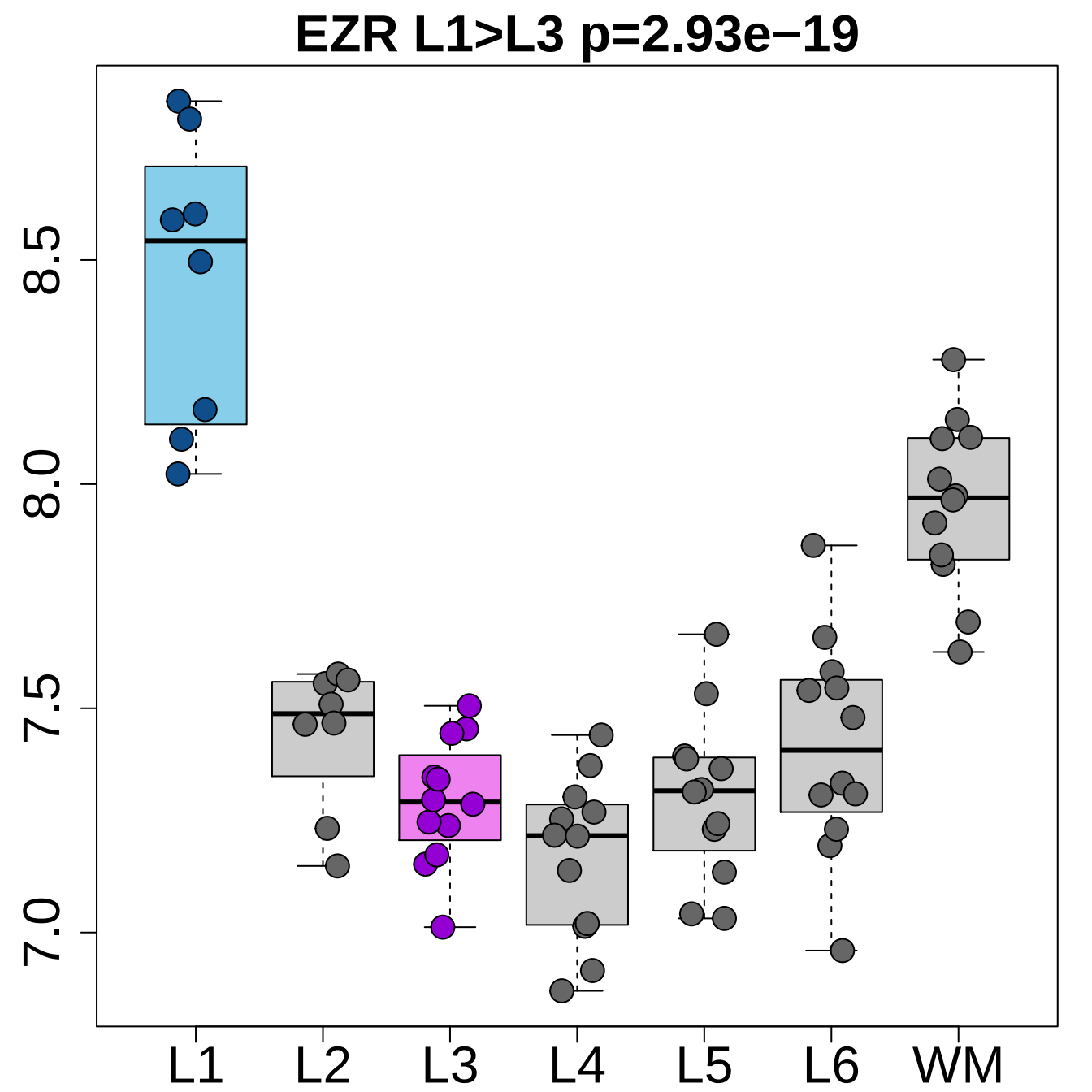
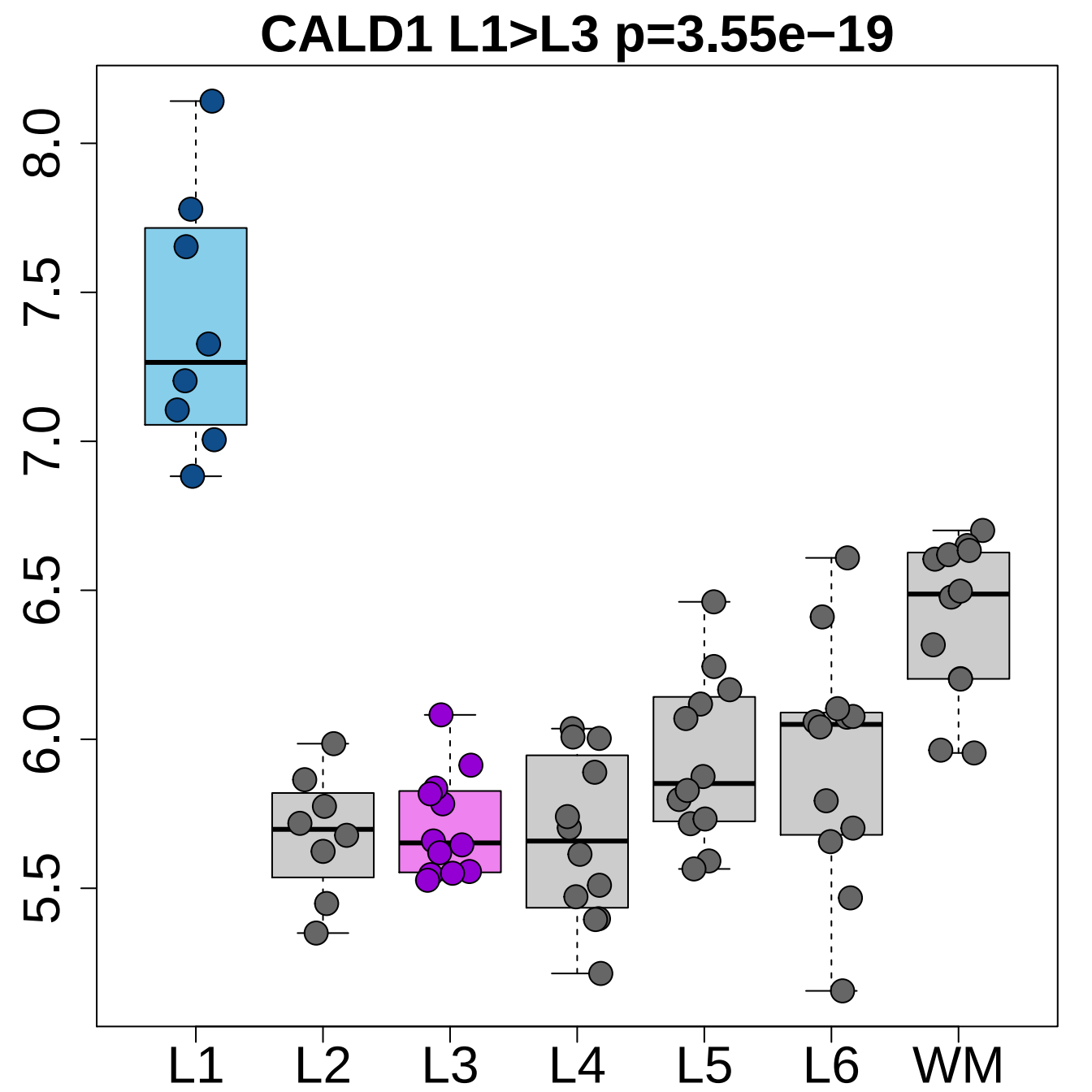
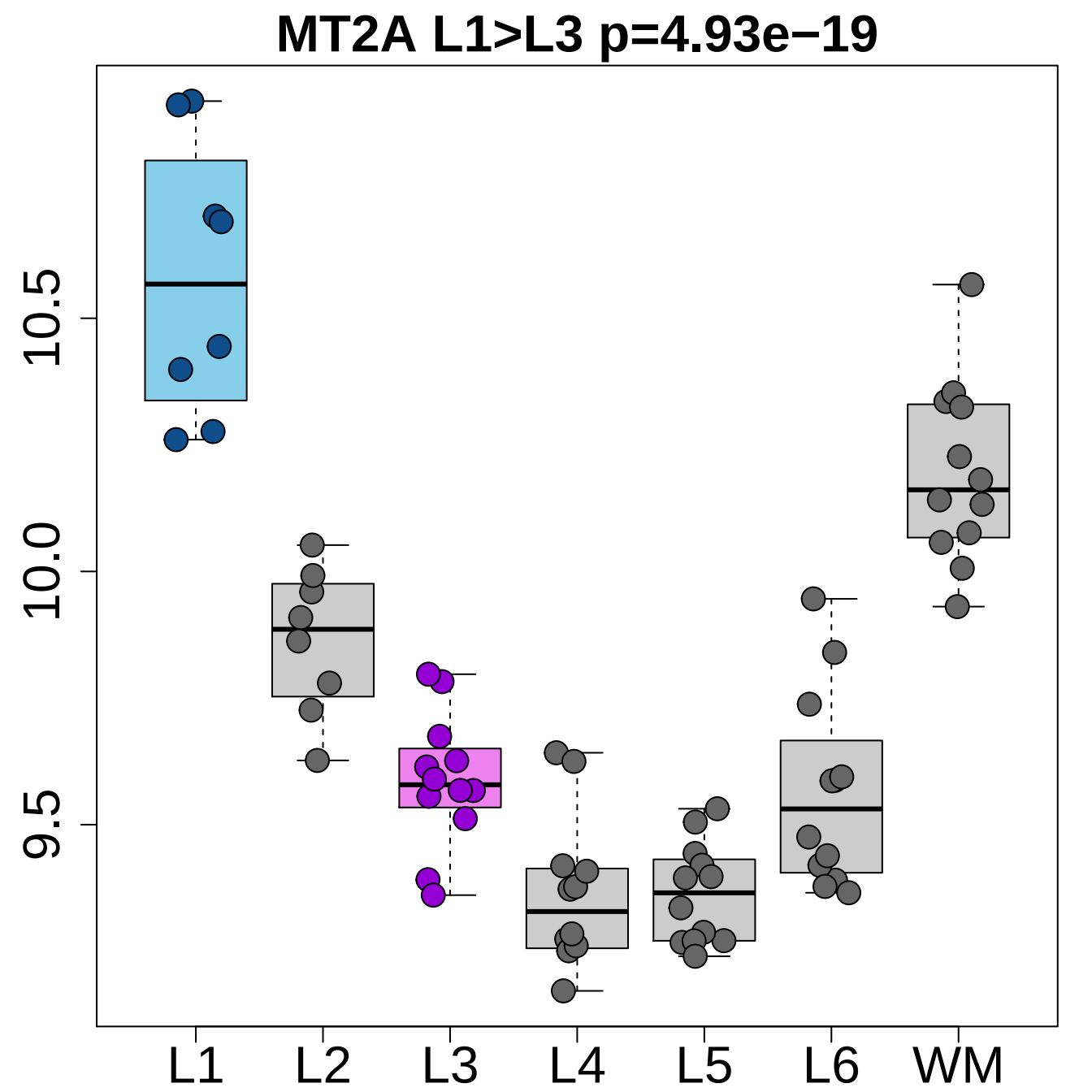
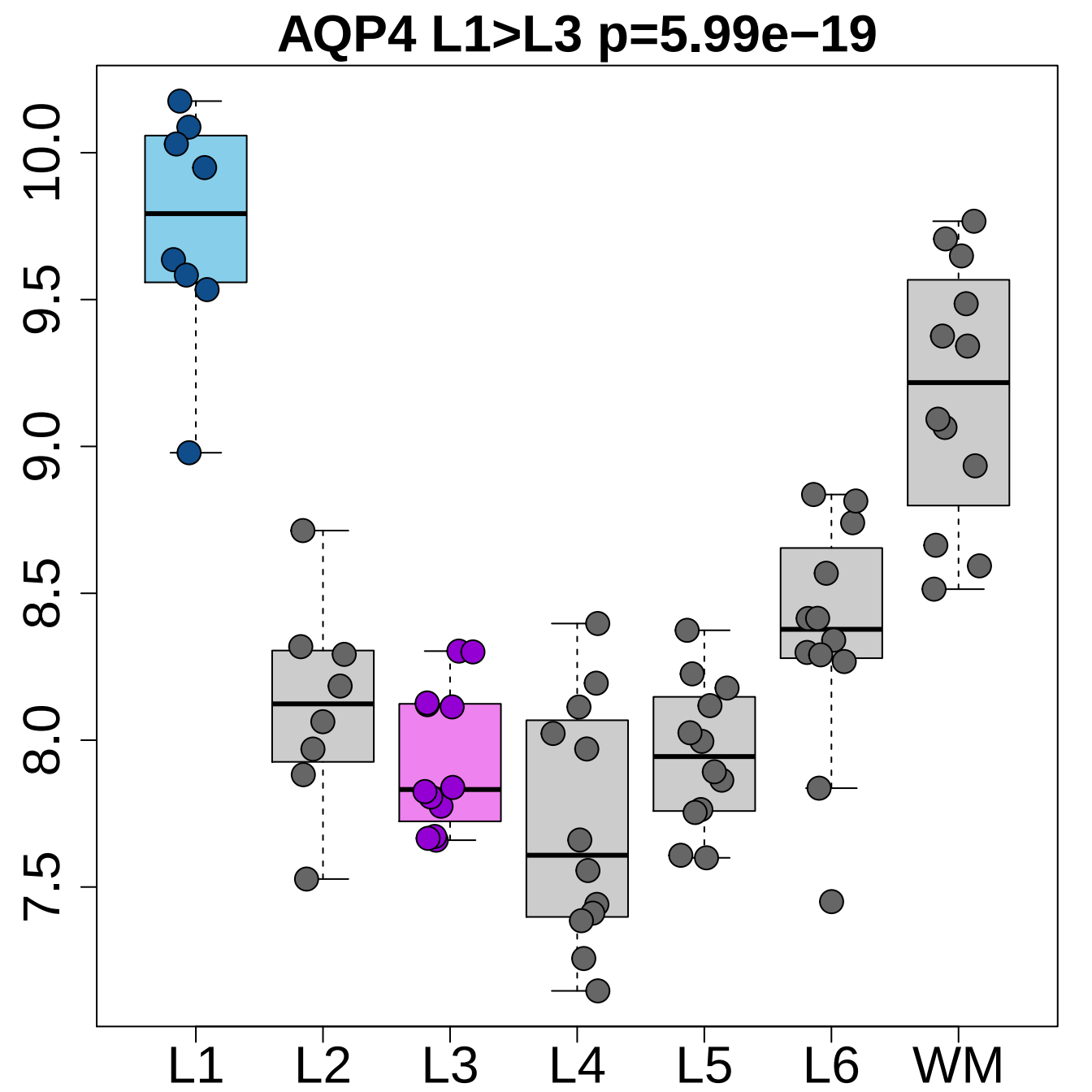
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

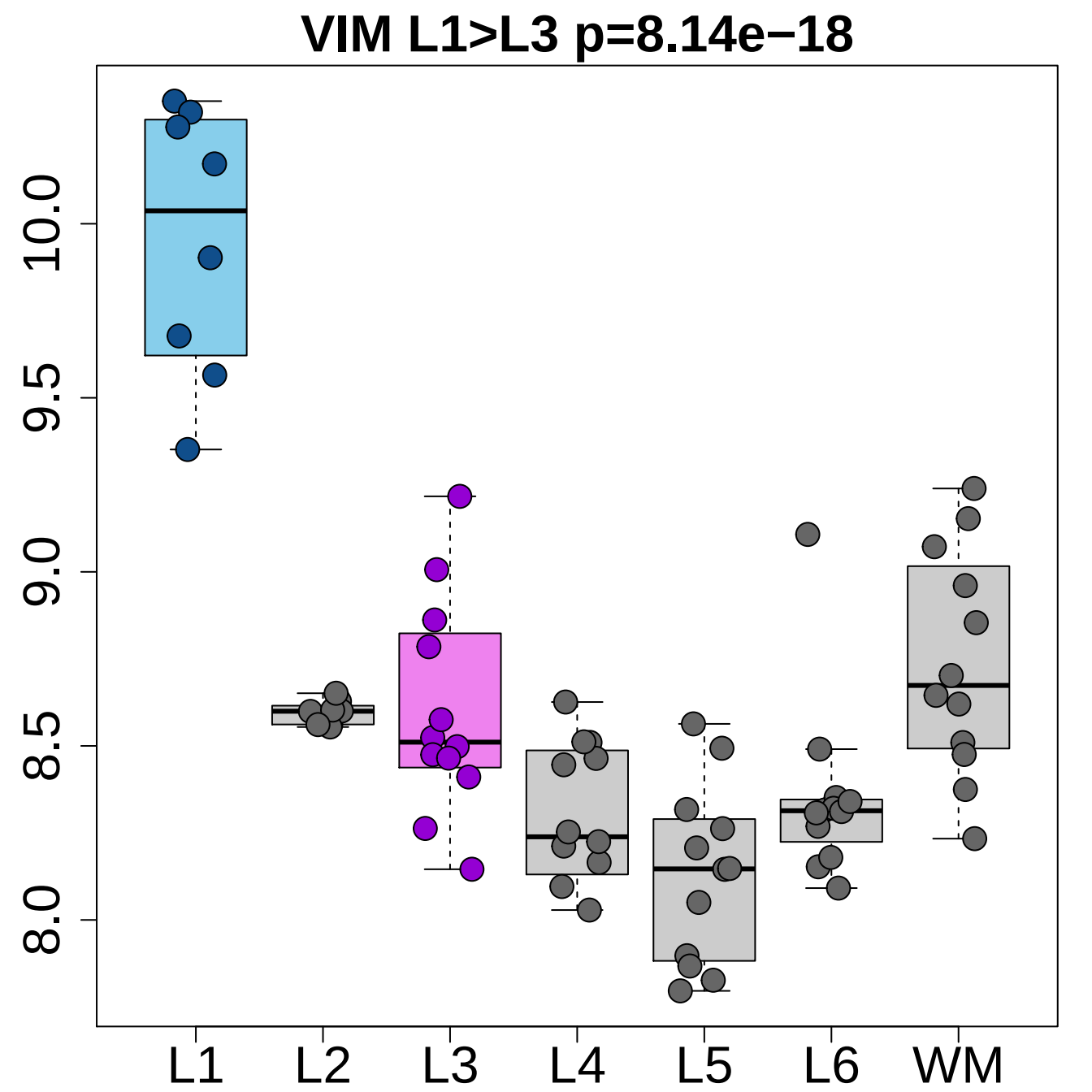

GFAP L1>L3 p=6.17e−23
13
12
11
10
9
L1
L2
L3
L4
L5
L6
WM


EZR L1>L3 p=2.93e−19
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


CALD1 L1>L3 p=3.55e−19
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


MT2A L1>L3 p=4.93e−19
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM


AQP4 L1>L3 p=5.99e−19
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


VIM L1>L3 p=8.14e−18
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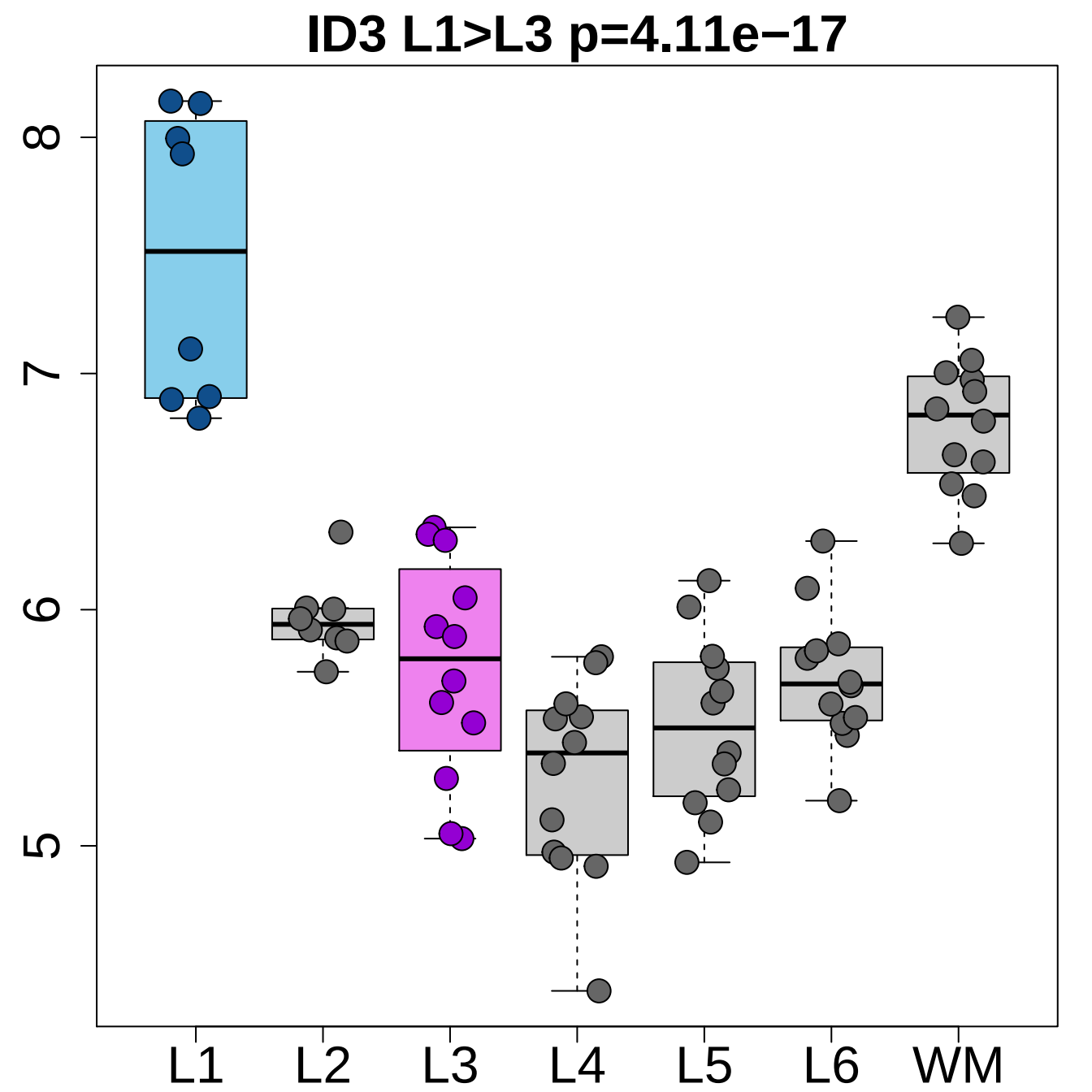
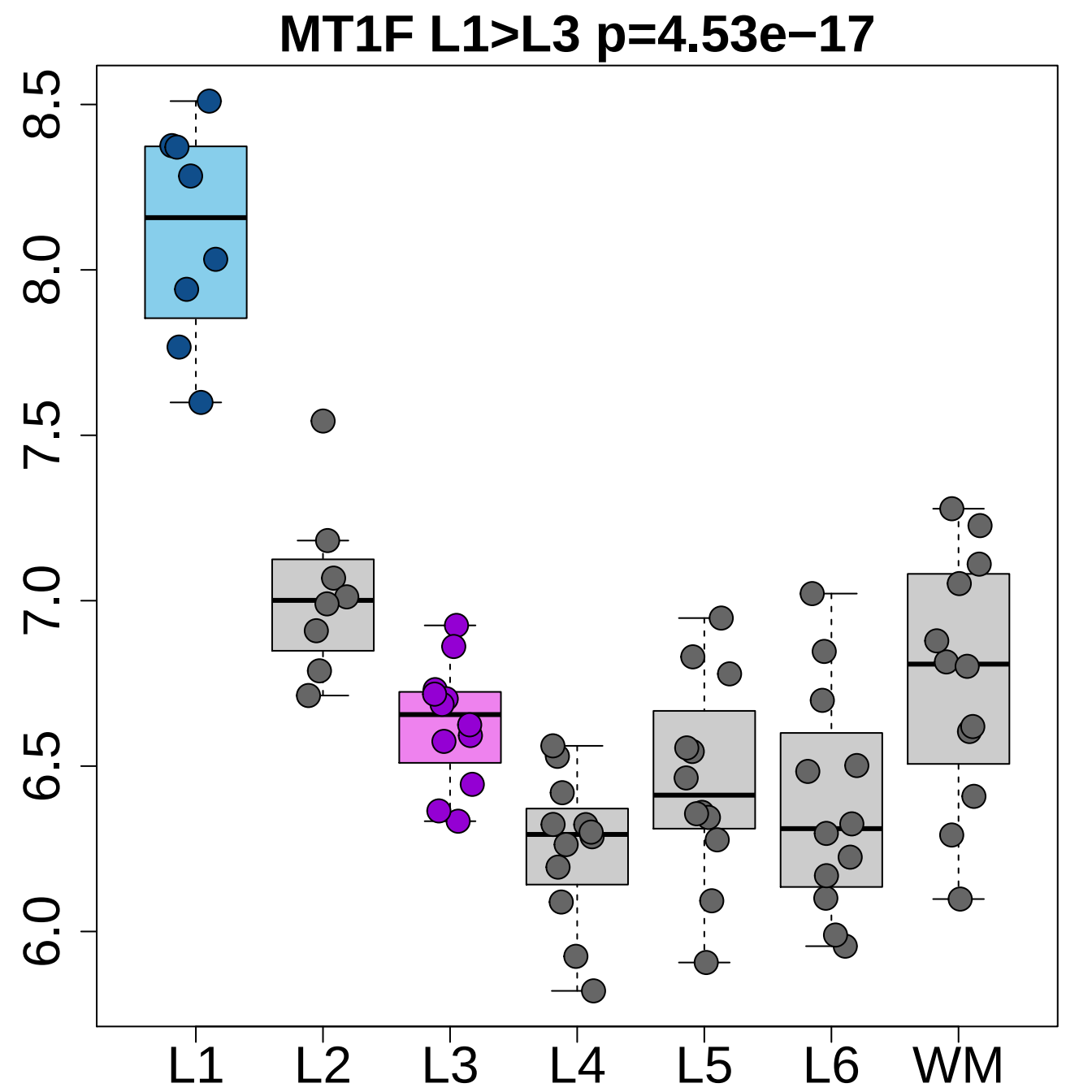
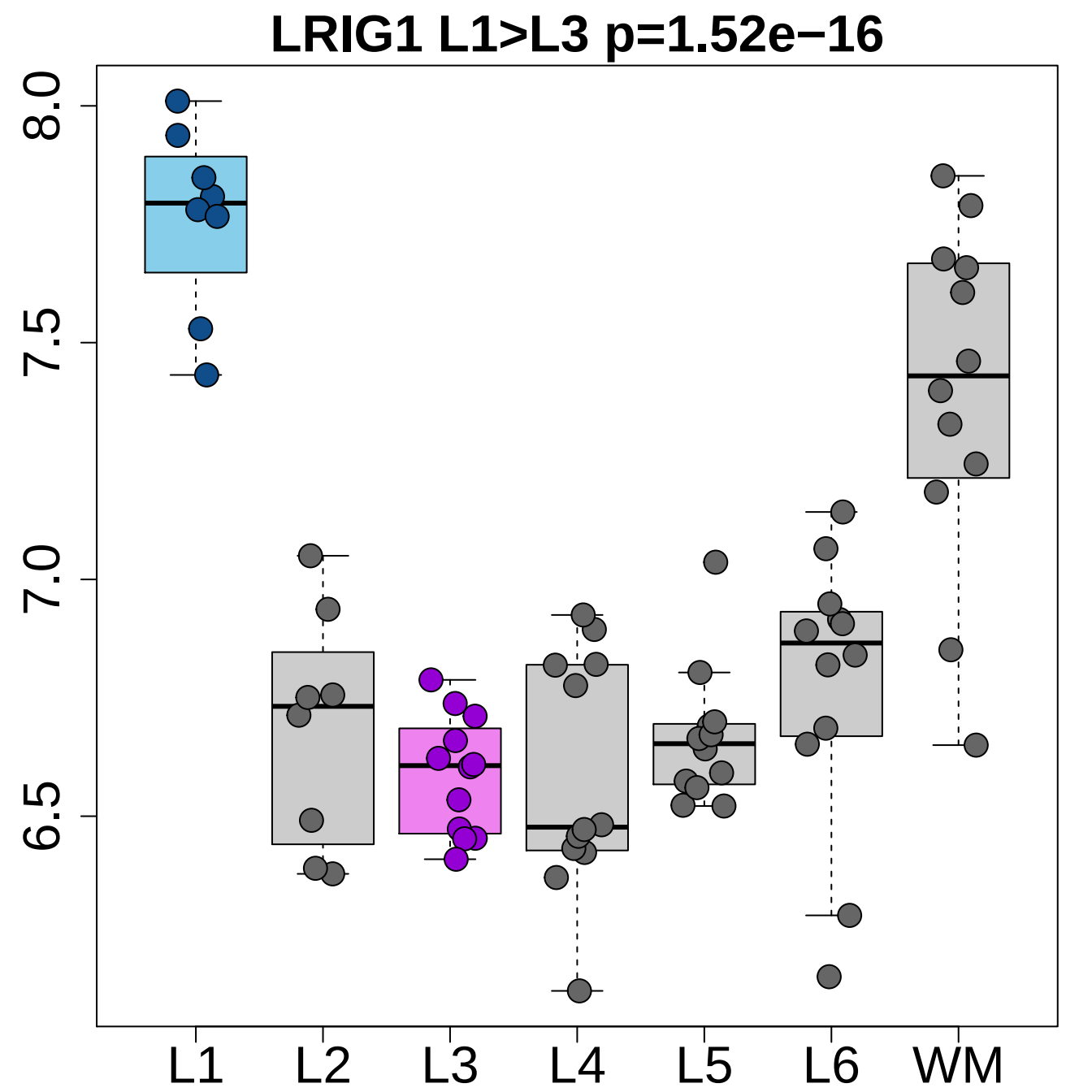
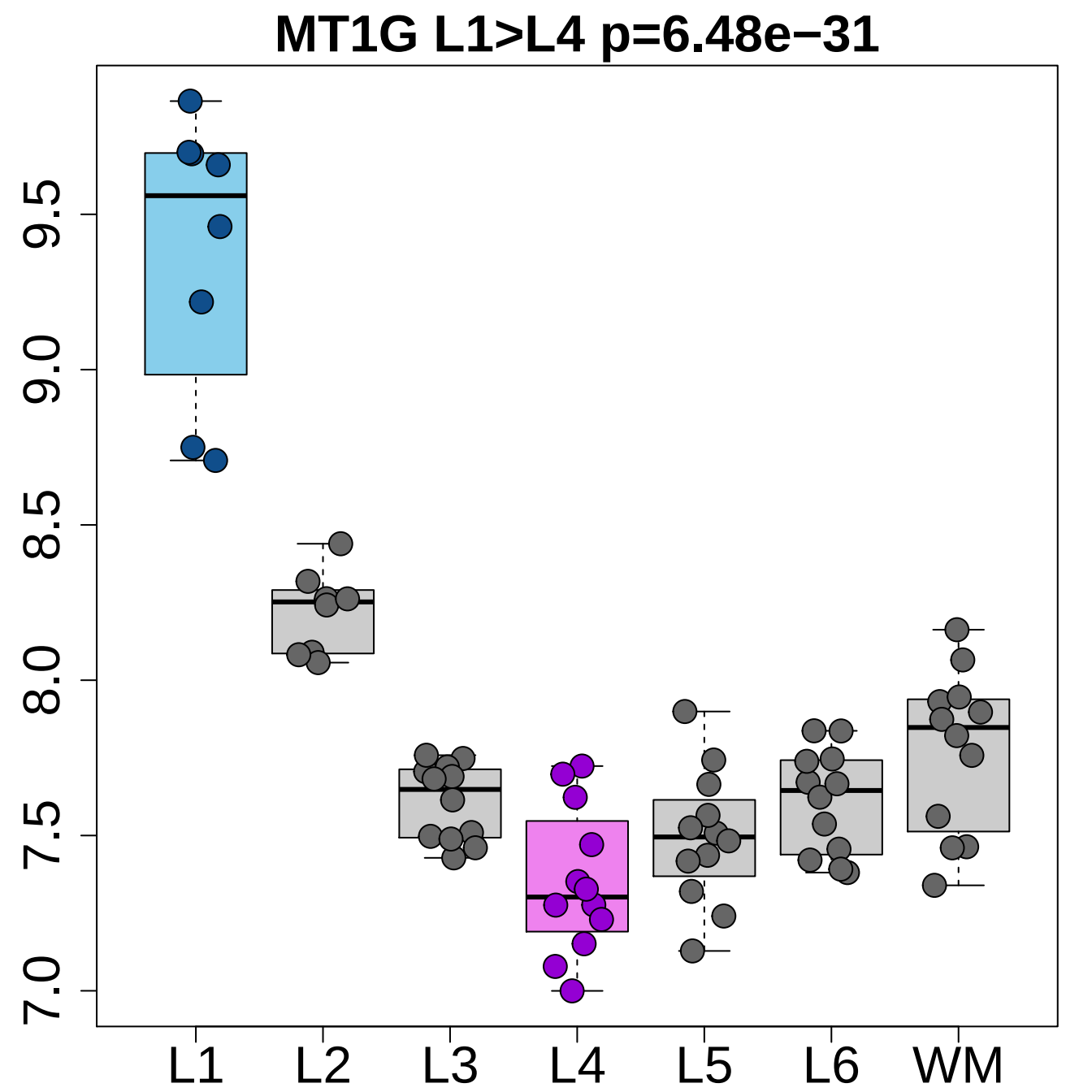
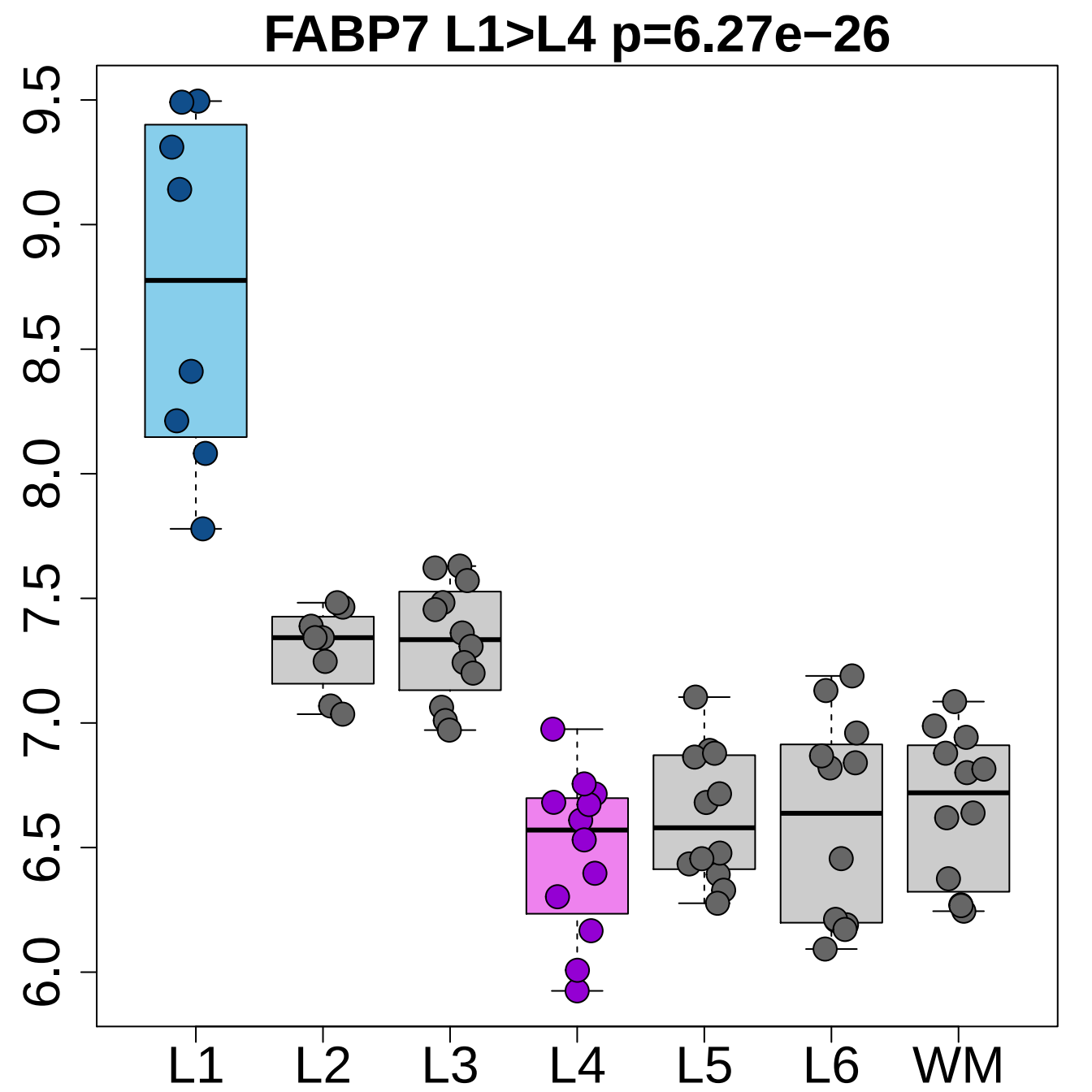
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

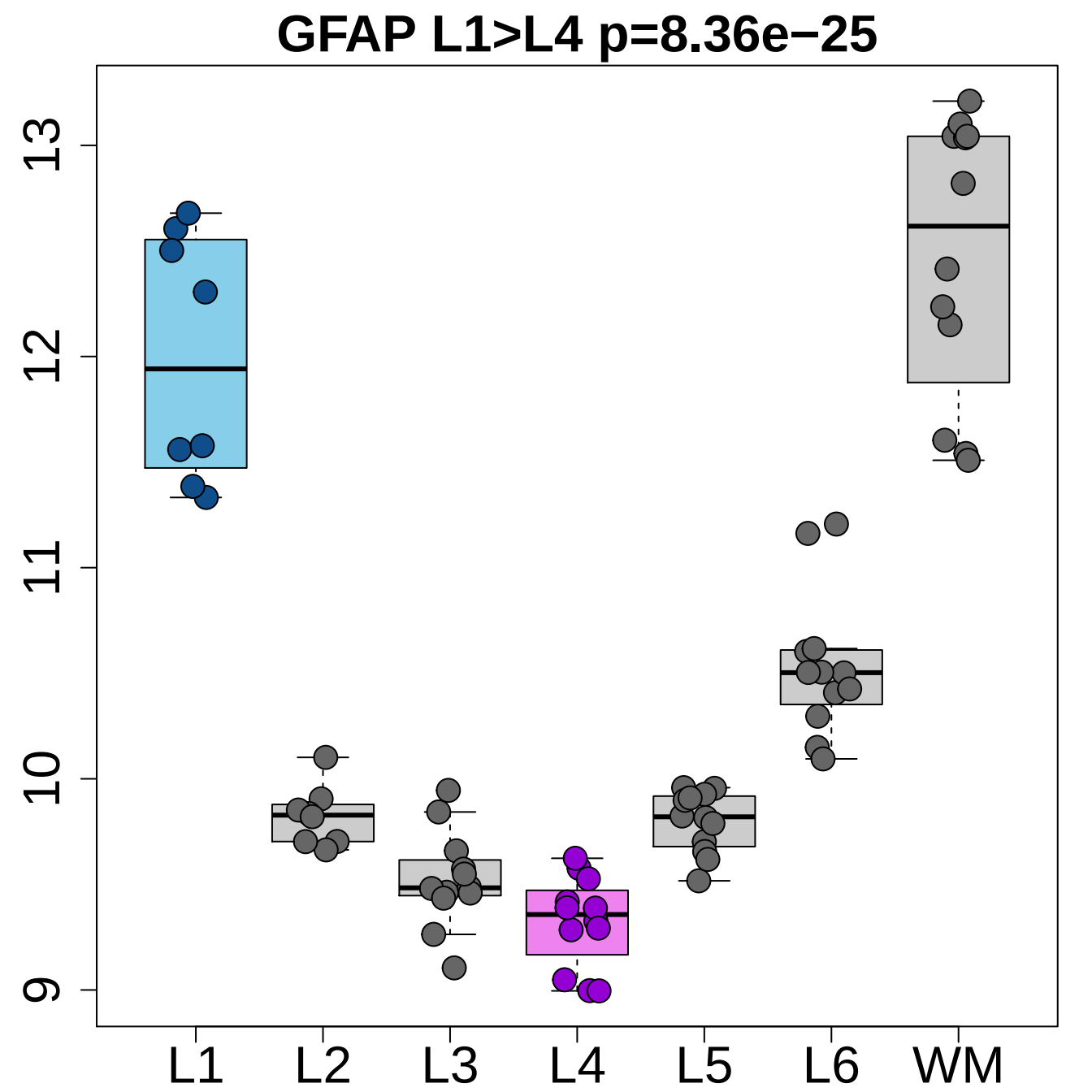

ID3 L1>L3 p=4.11e−17
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

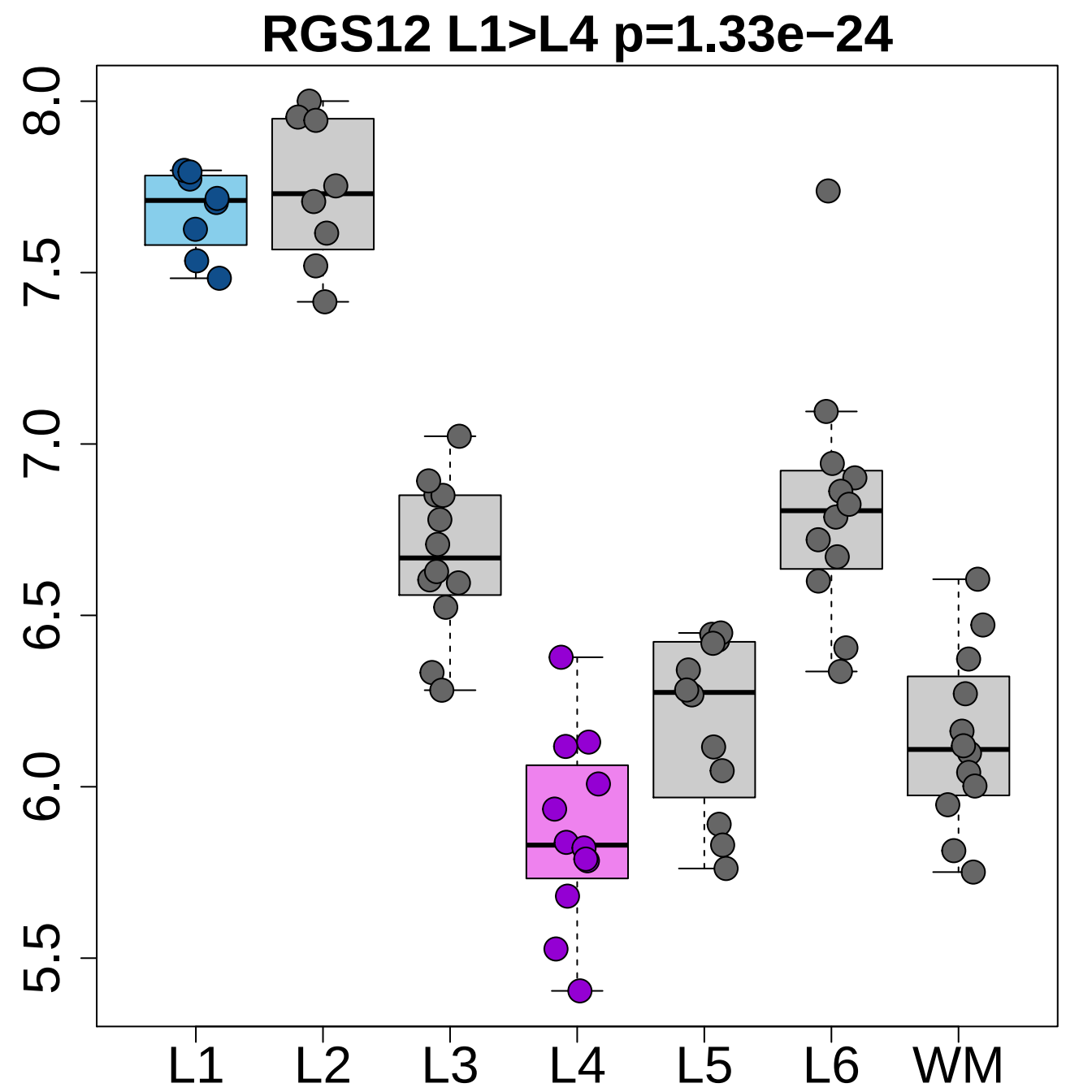

MT1F L1>L3 p=4.53e−17
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

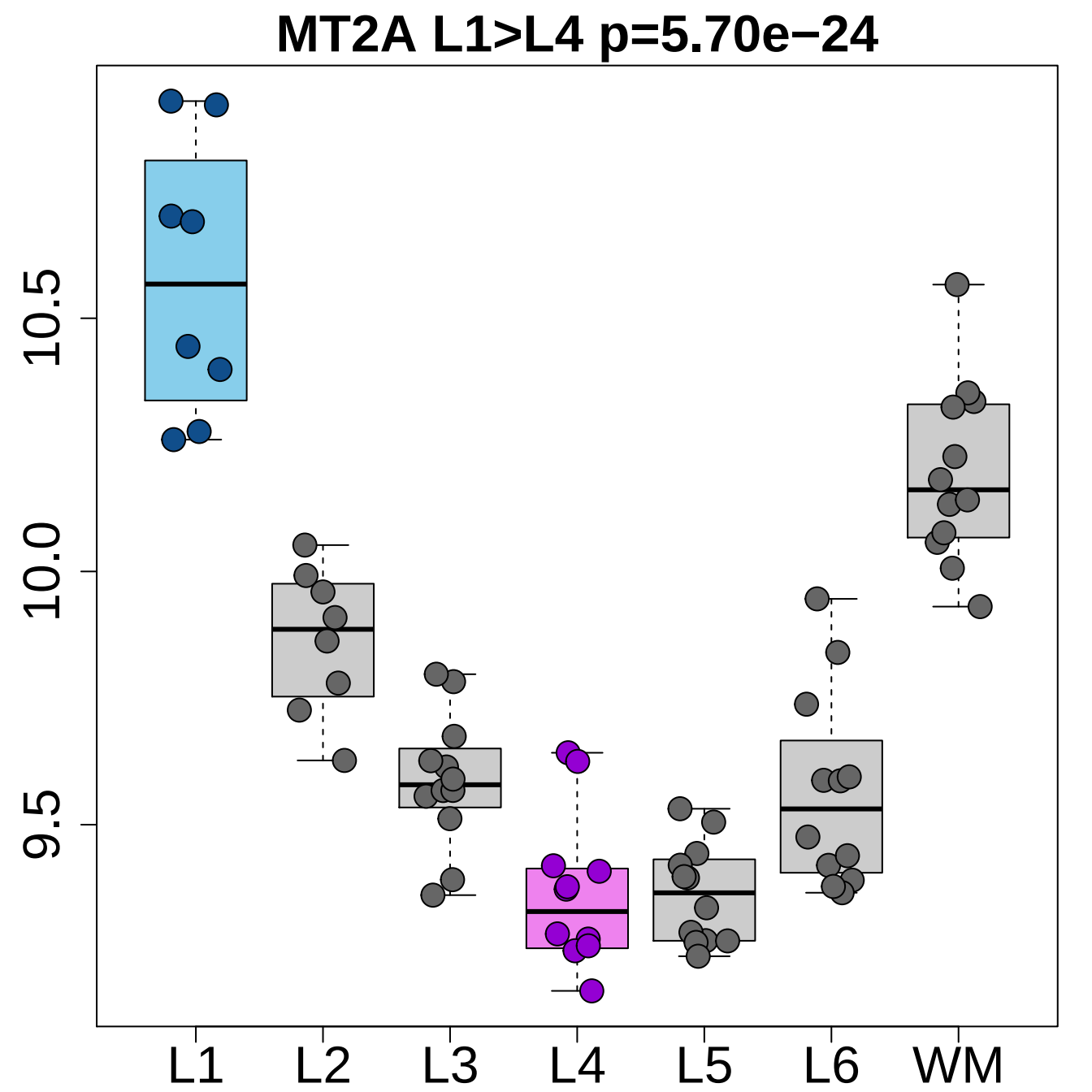

LRIG1 L1>L3 p=1.52e−16
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

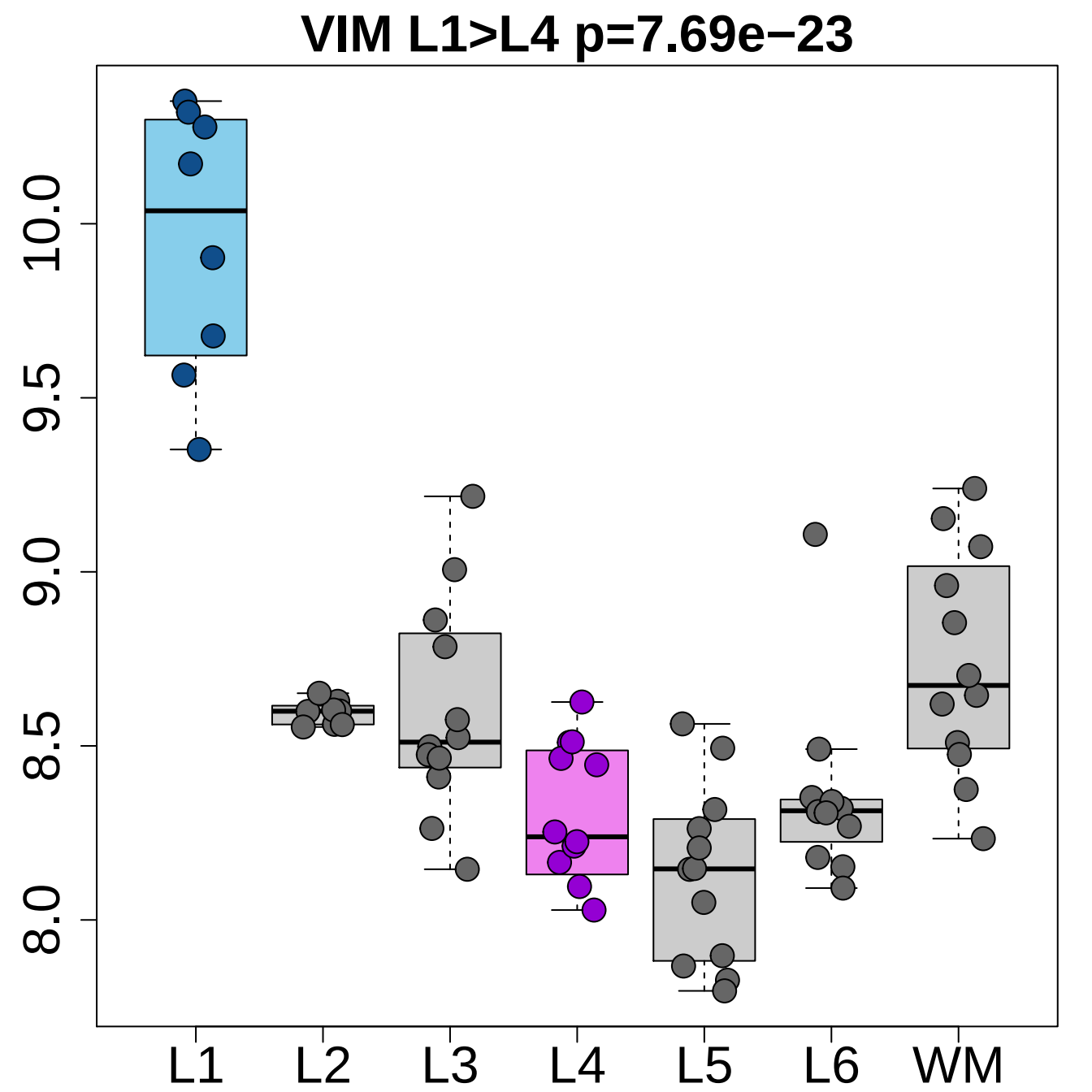

MT1G L1>L4 p=6.48e−31
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

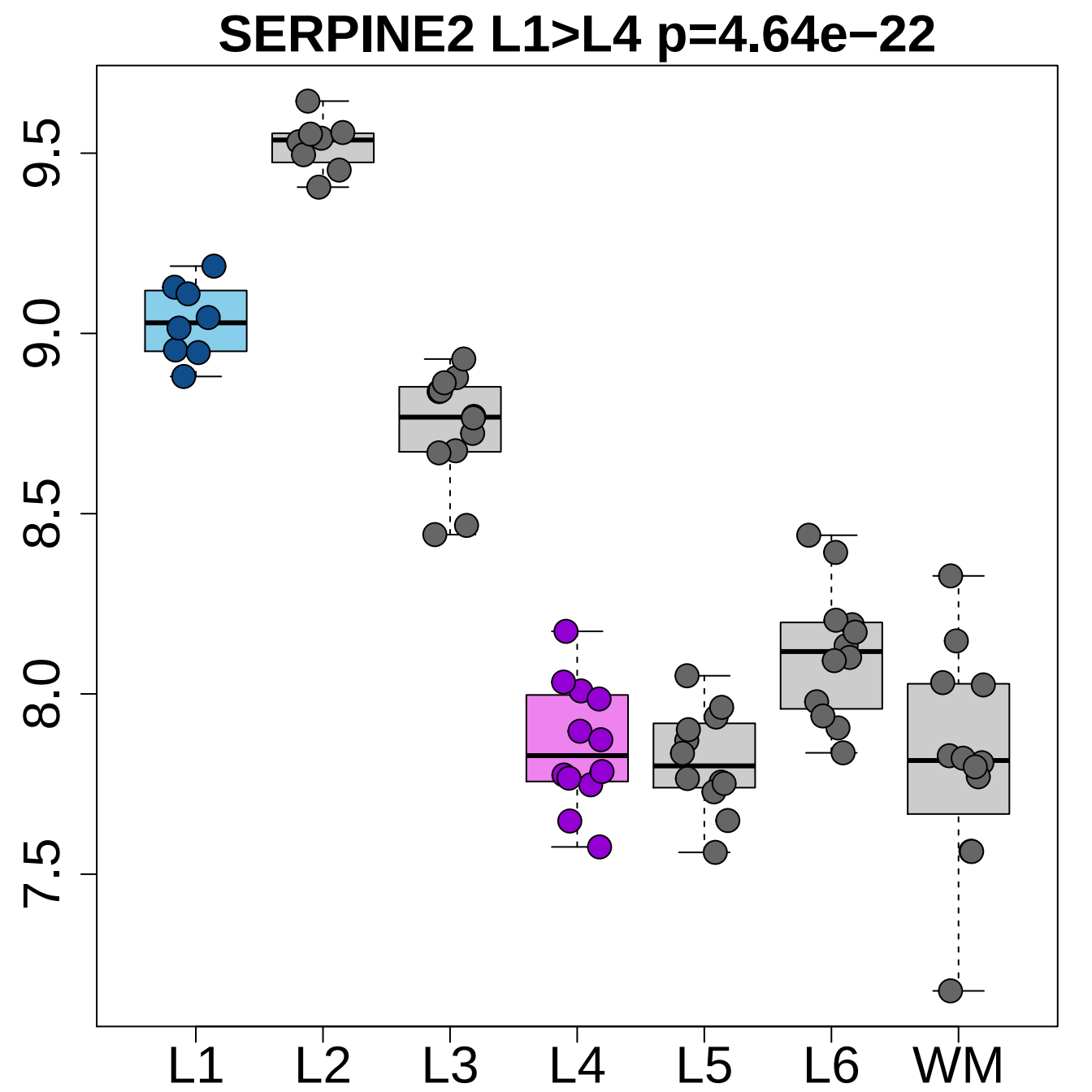

FABP7 L1>L4 p=6.27e−26
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

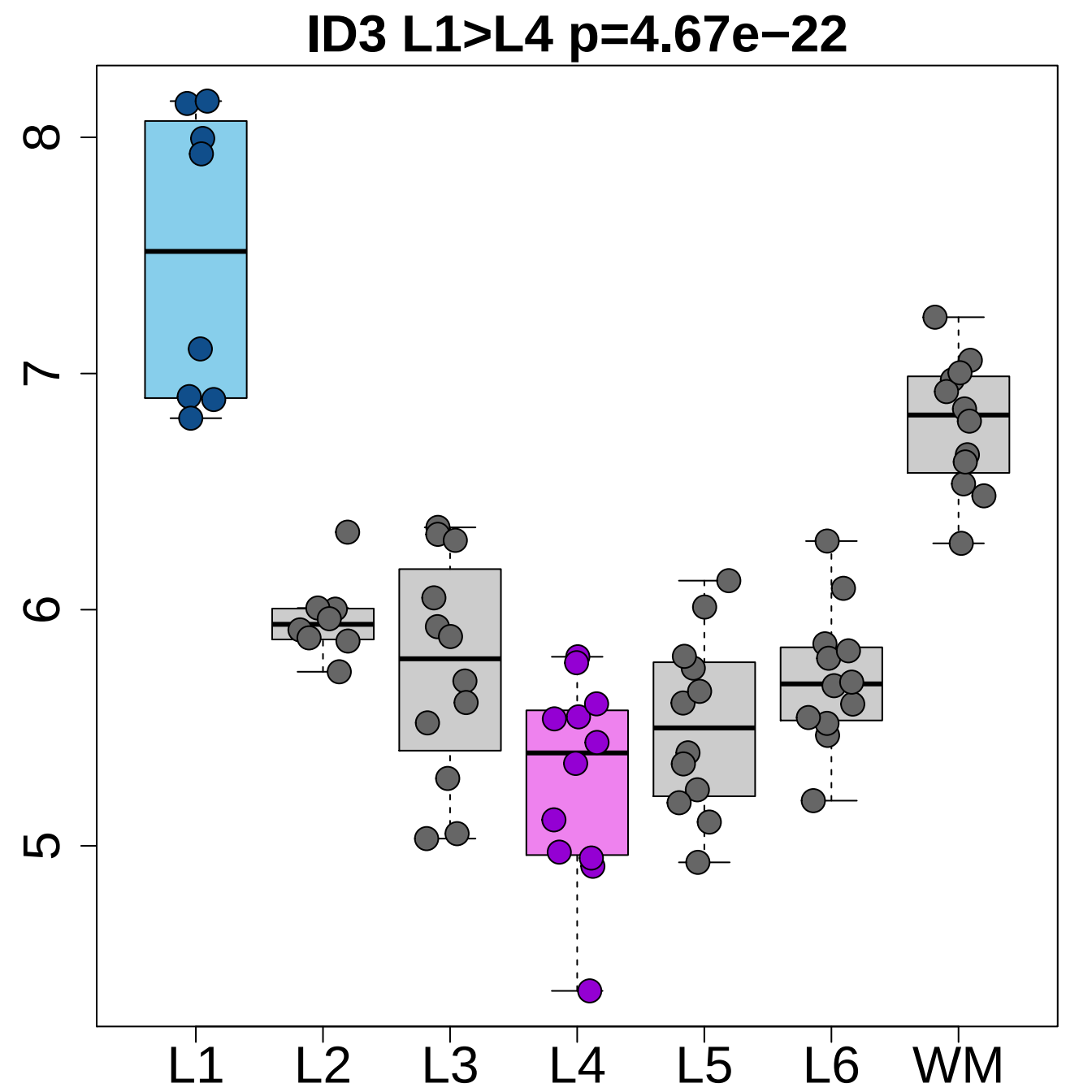

GFAP L1>L4 p=8.36e−25
13
12
11
10
9
L1
L2
L3
L4
L5
L6
WM

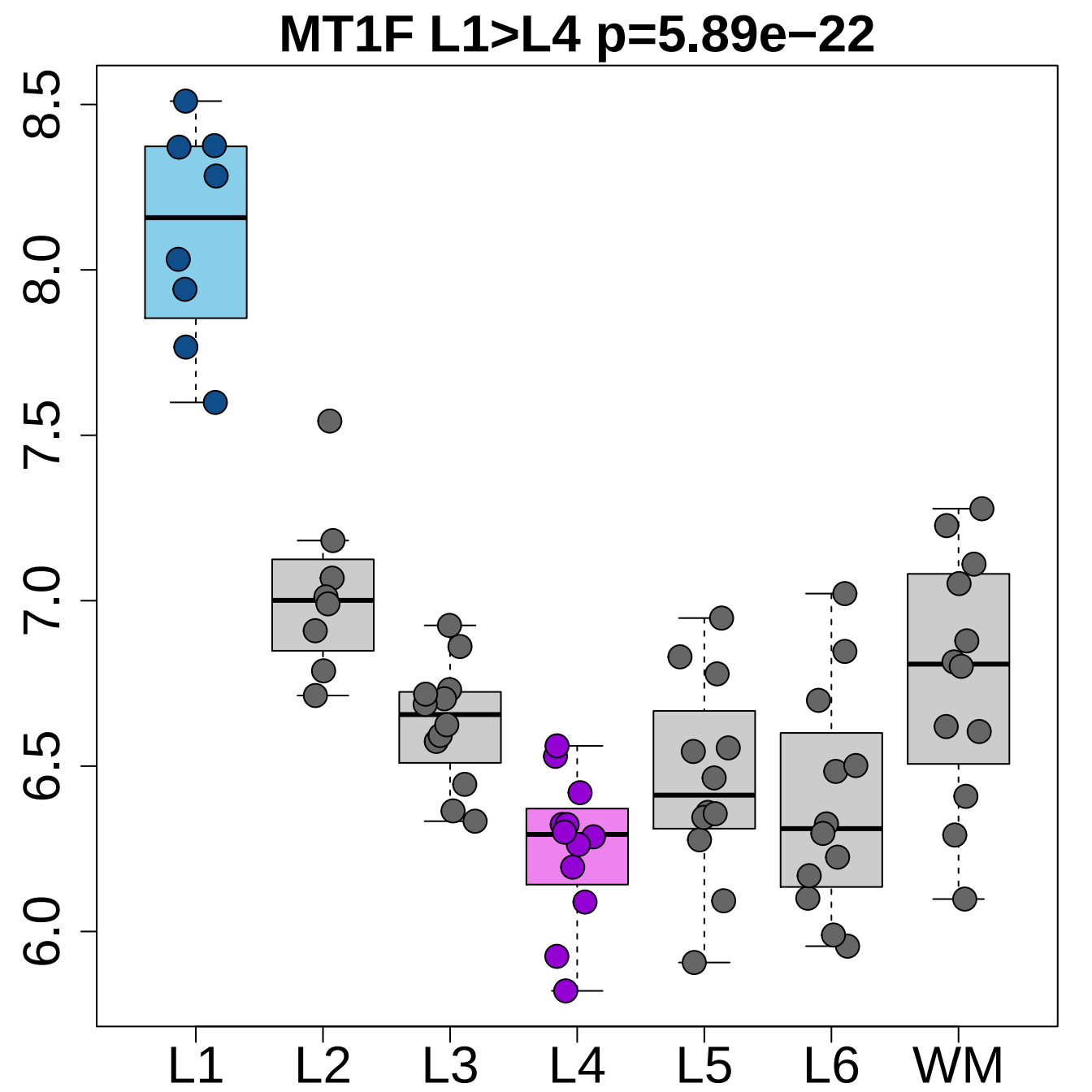

RGS12 L1>L4 p=1.33e−24
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


MT2A L1>L4 p=5.70e−24
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM


VIM L1>L4 p=7.69e−23
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L1>L4 p=4.64e−22
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


ID3 L1>L4 p=4.67e−22
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


MT1F L1>L4 p=5.89e−22
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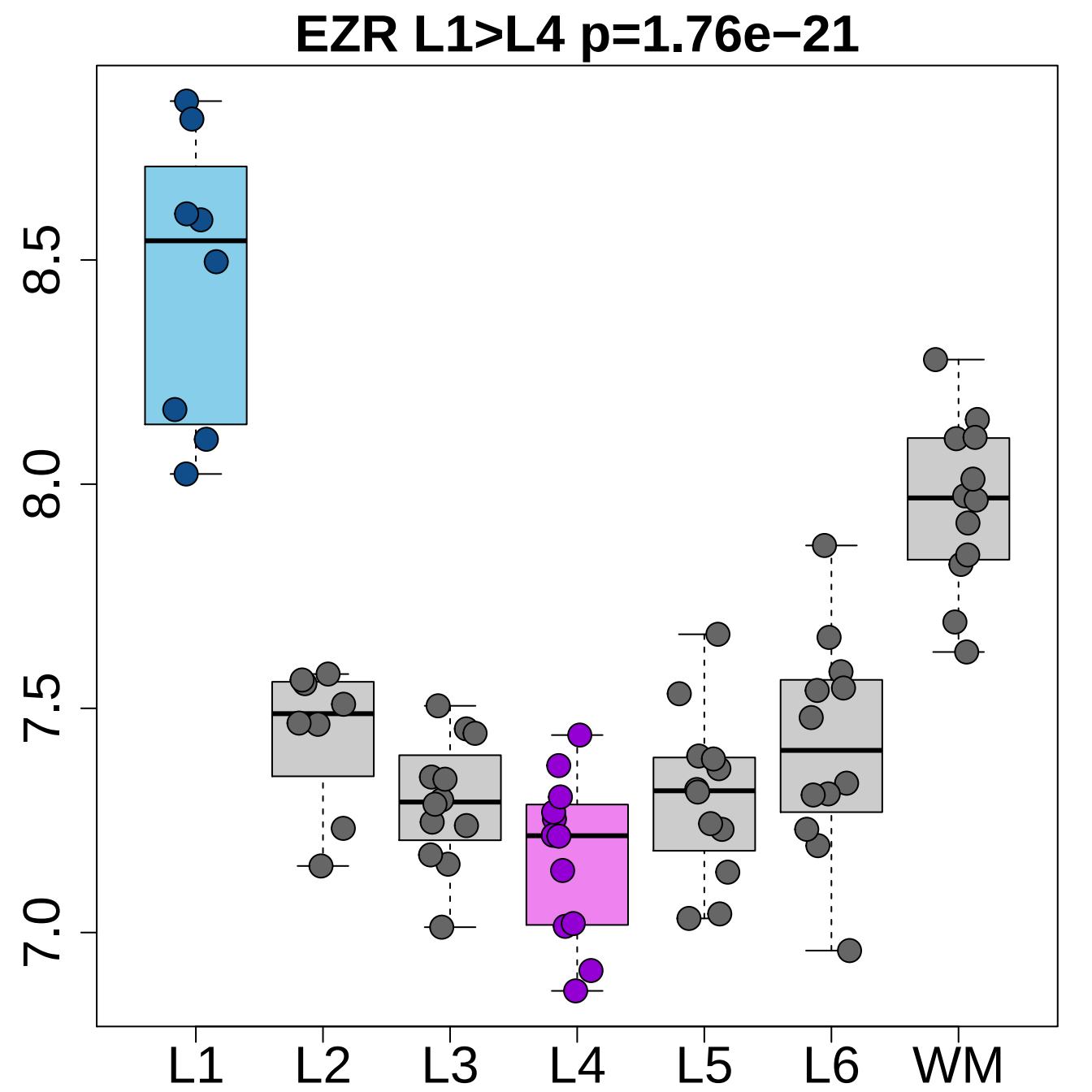
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


EZR L1>L4 p=1.76e−21
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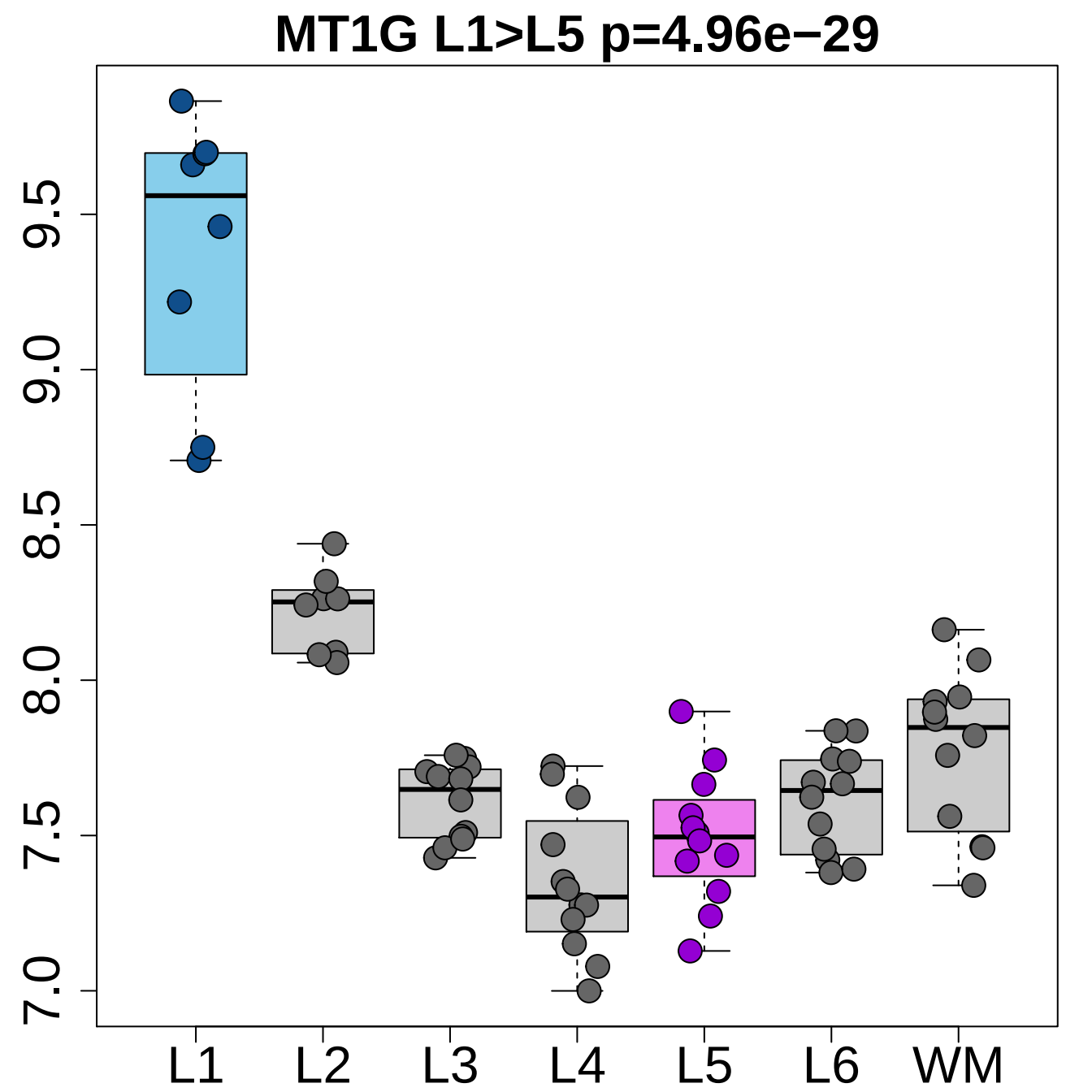
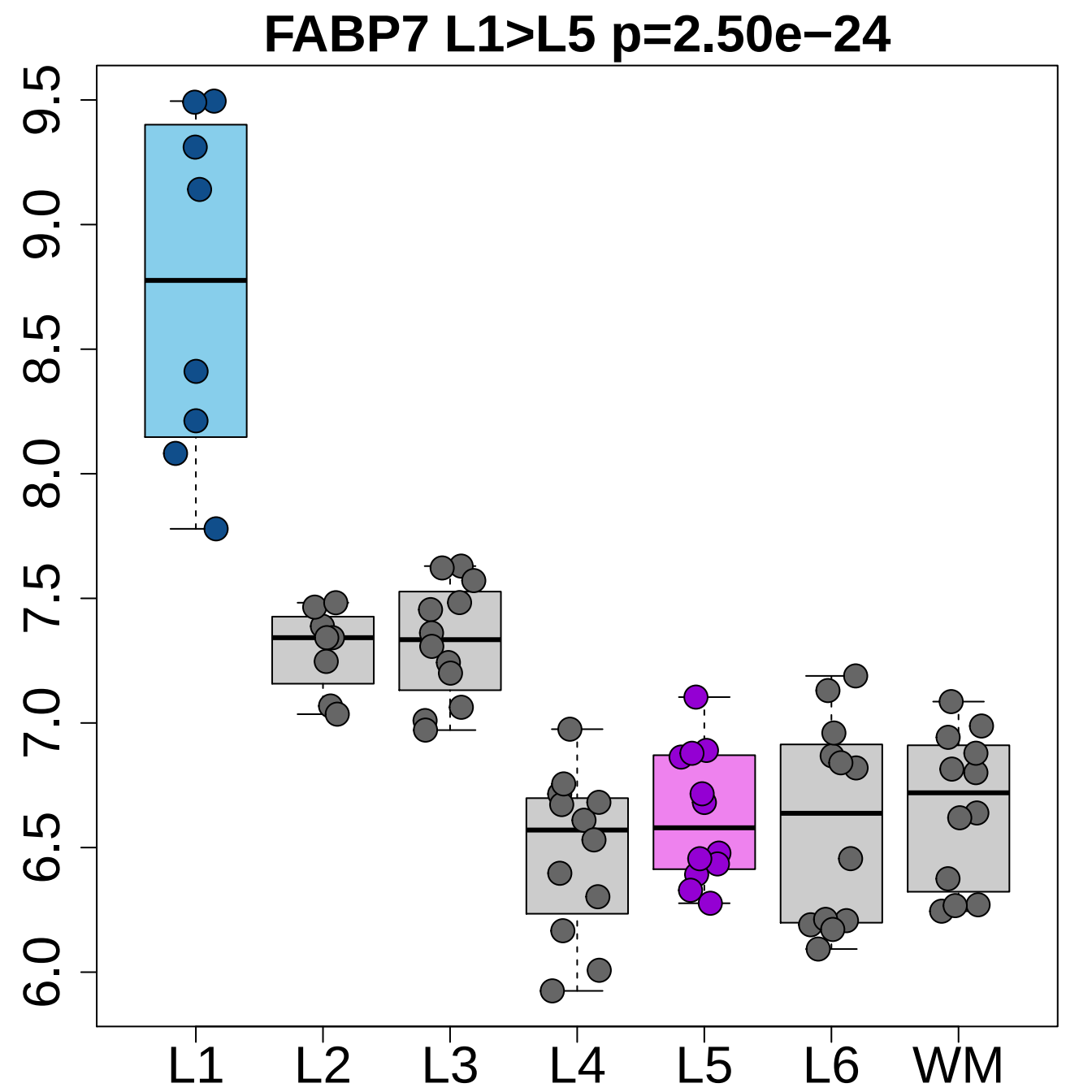
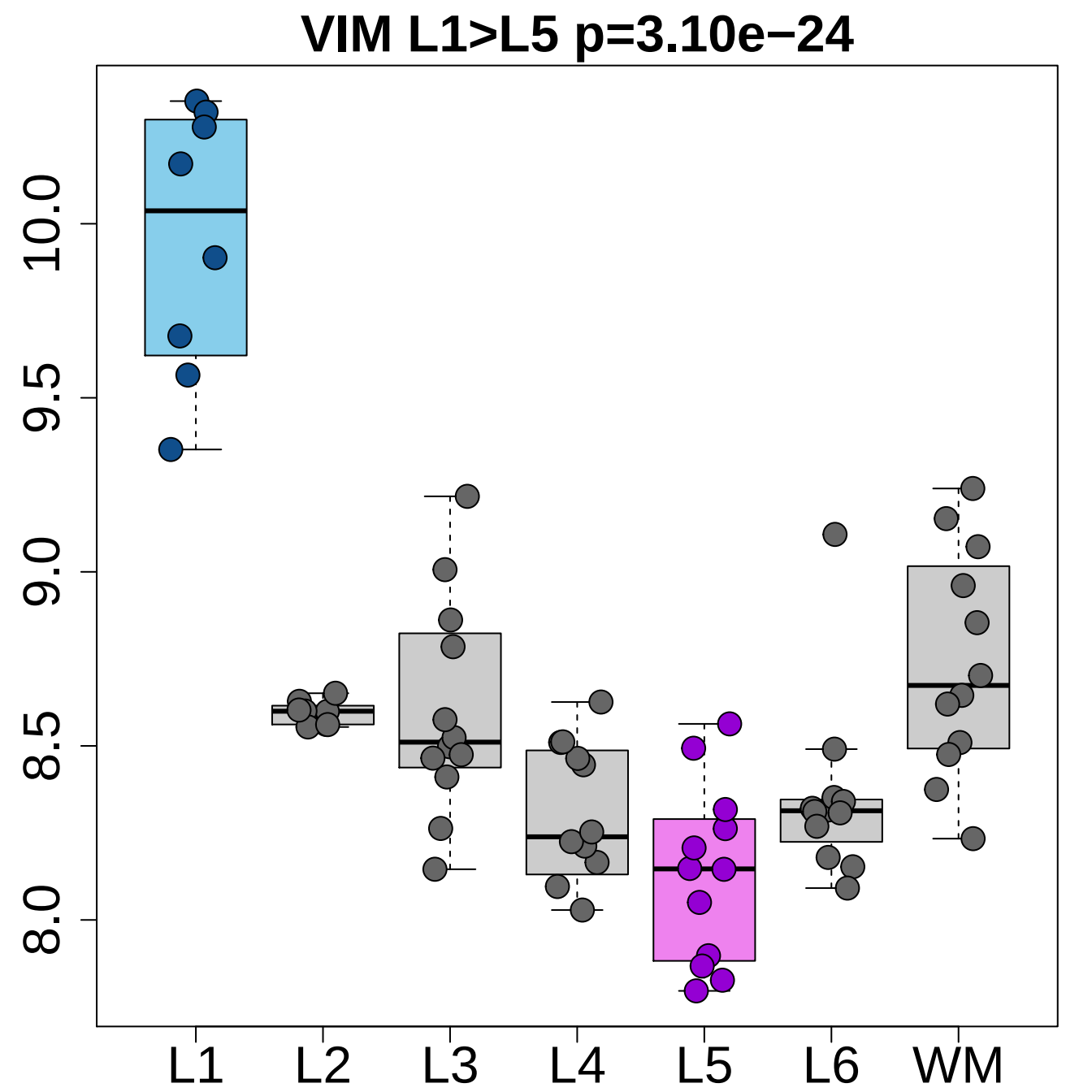
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


MT1G L1>L5 p=4.96e−29
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


FABP7 L1>L5 p=2.50e−24
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


VIM L1>L5 p=3.10e−24
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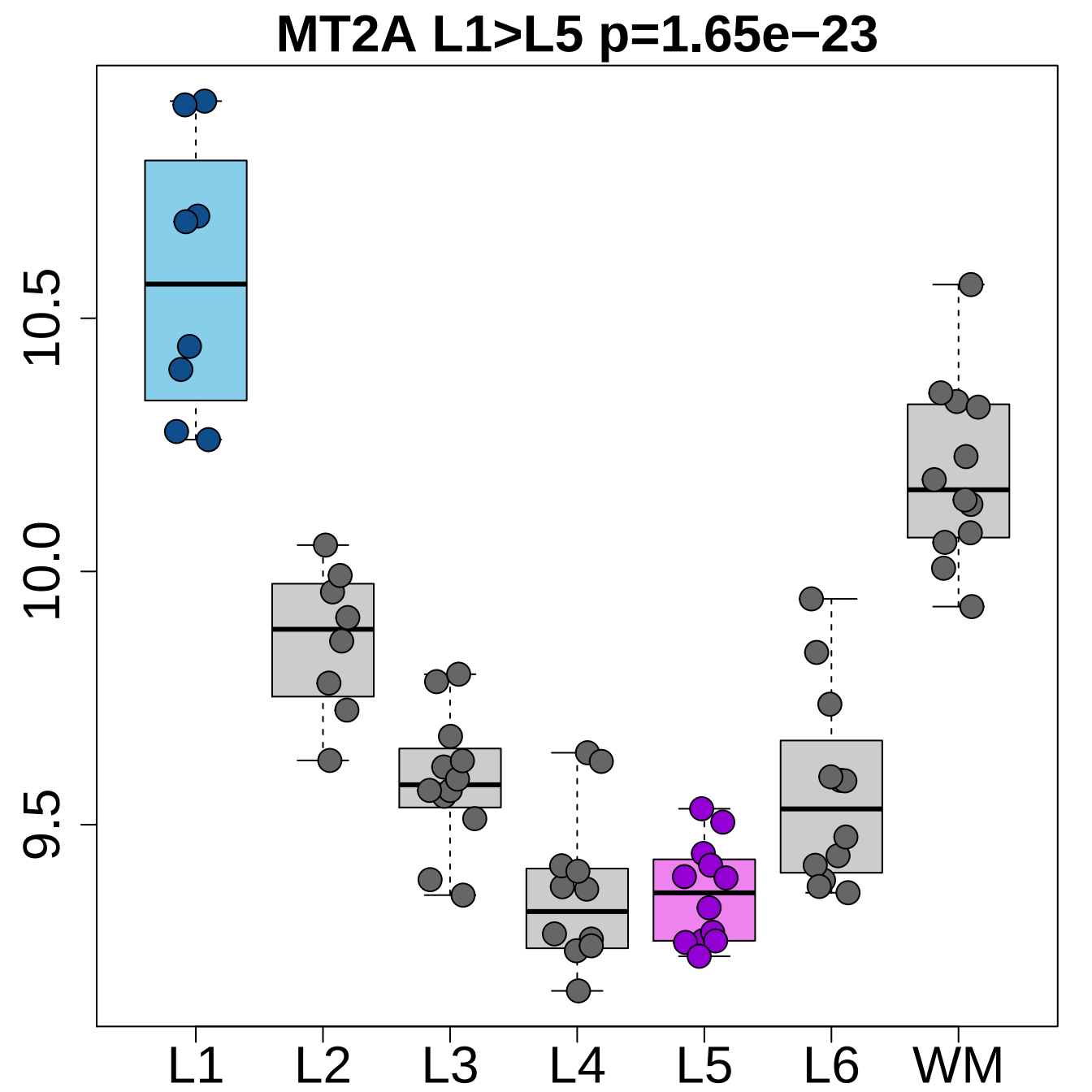
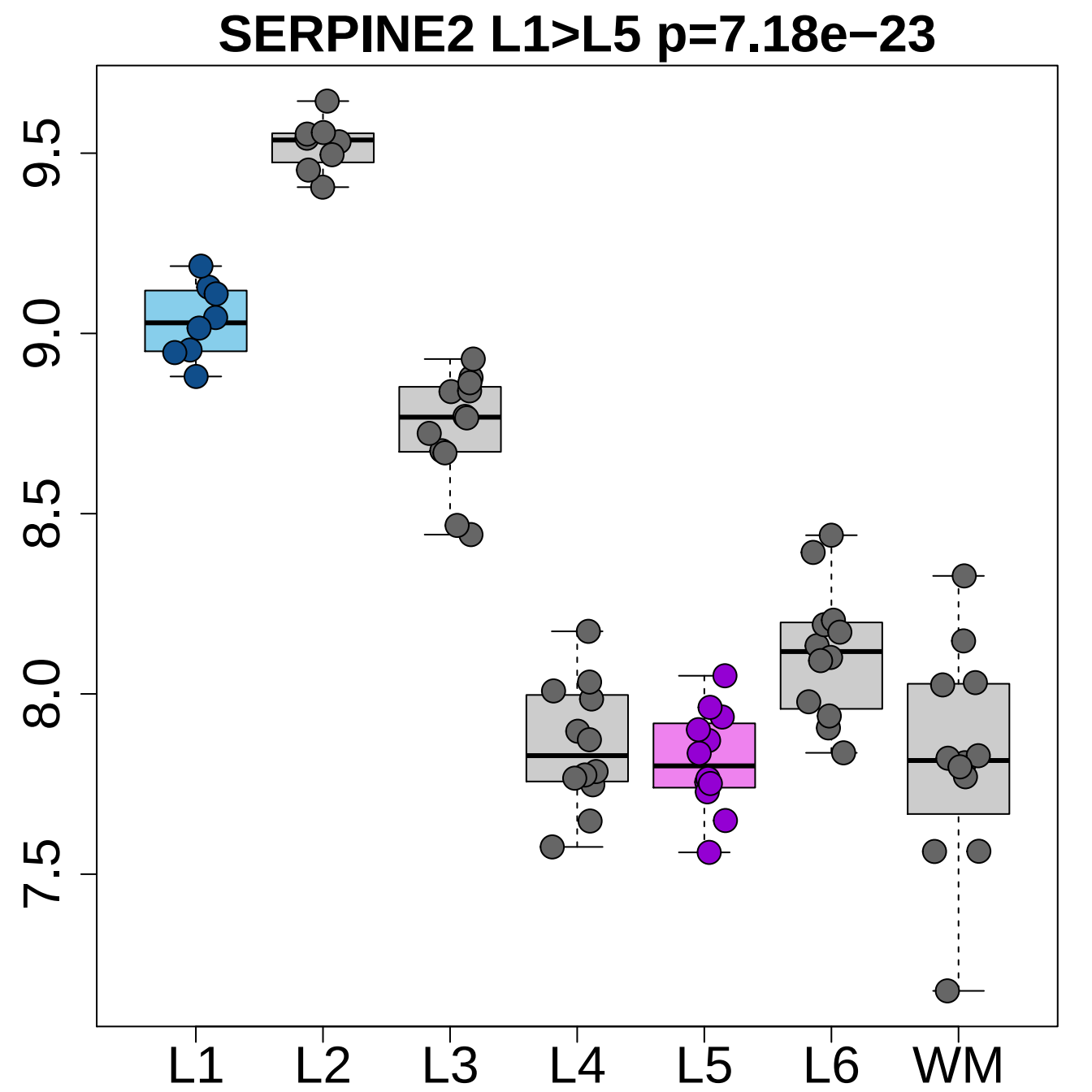
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM


MT2A L1>L5 p=1.65e−23
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L1>L5 p=7.18e−23
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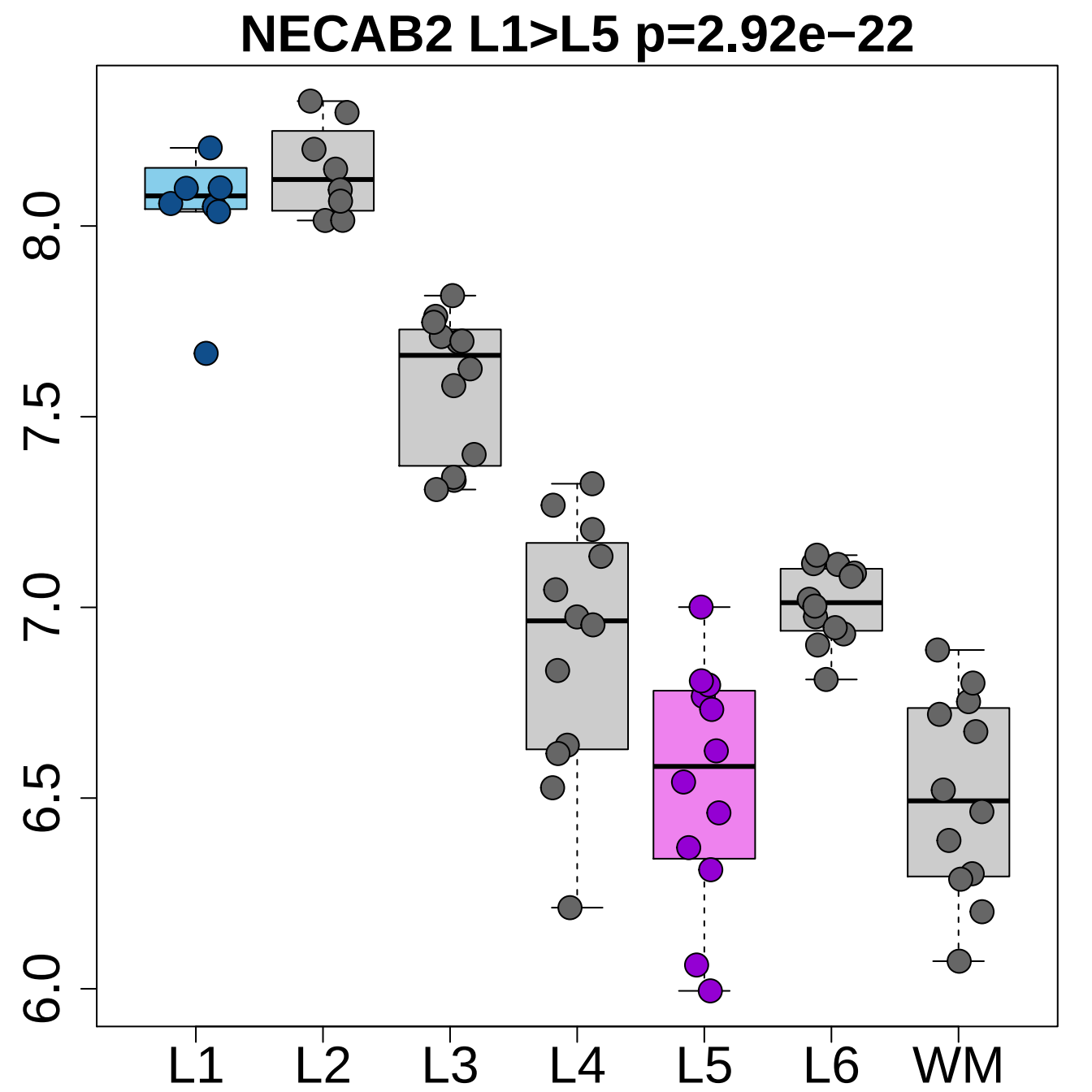
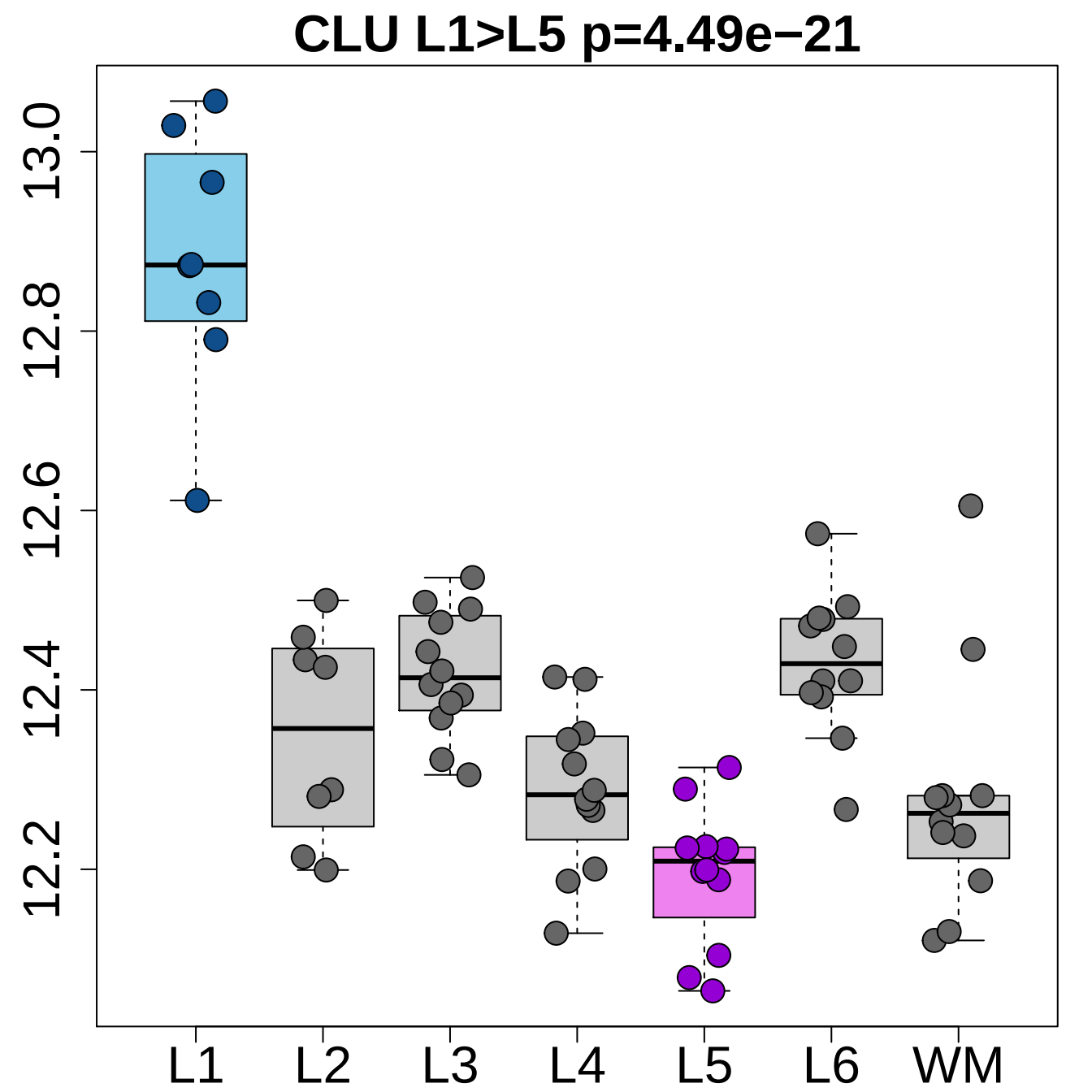
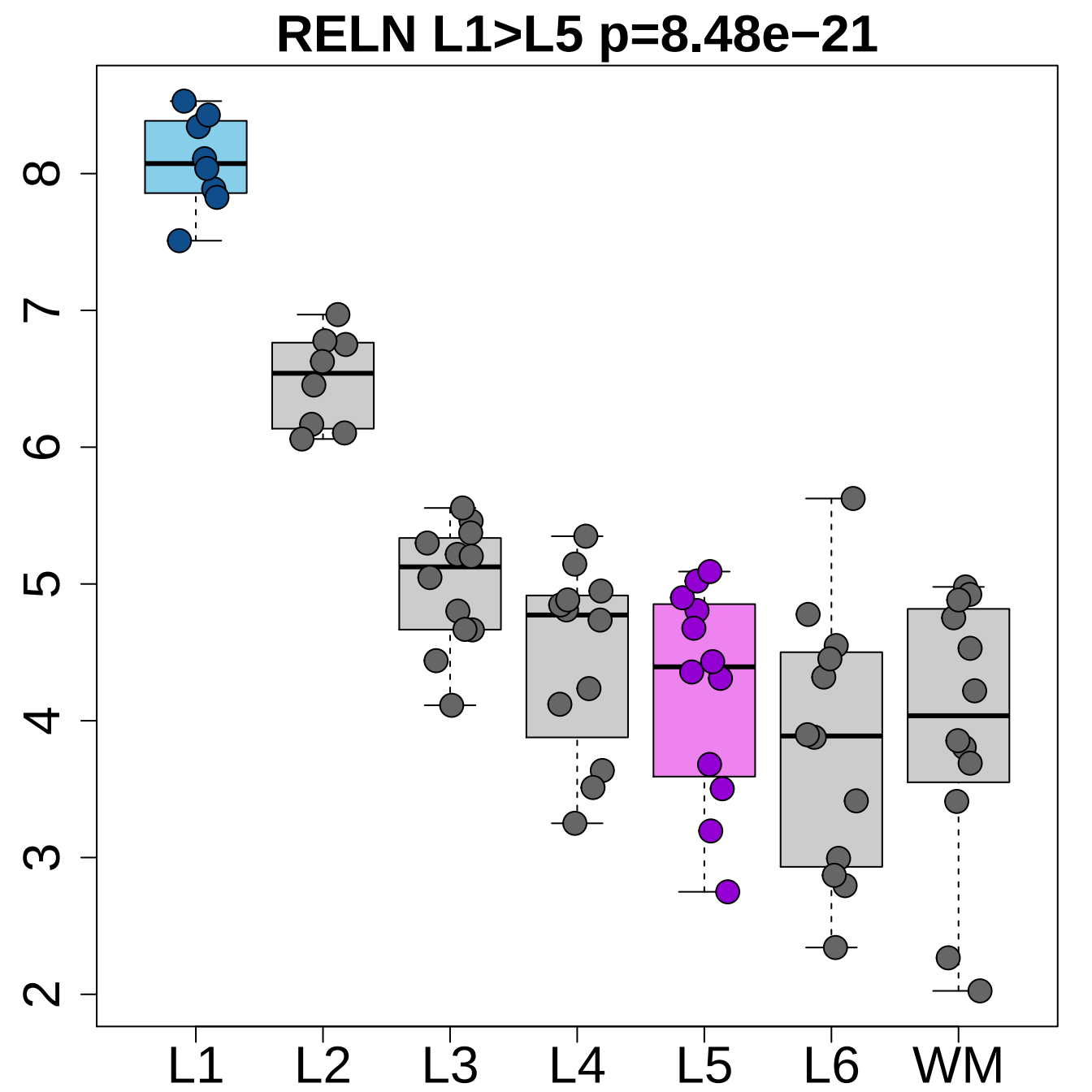
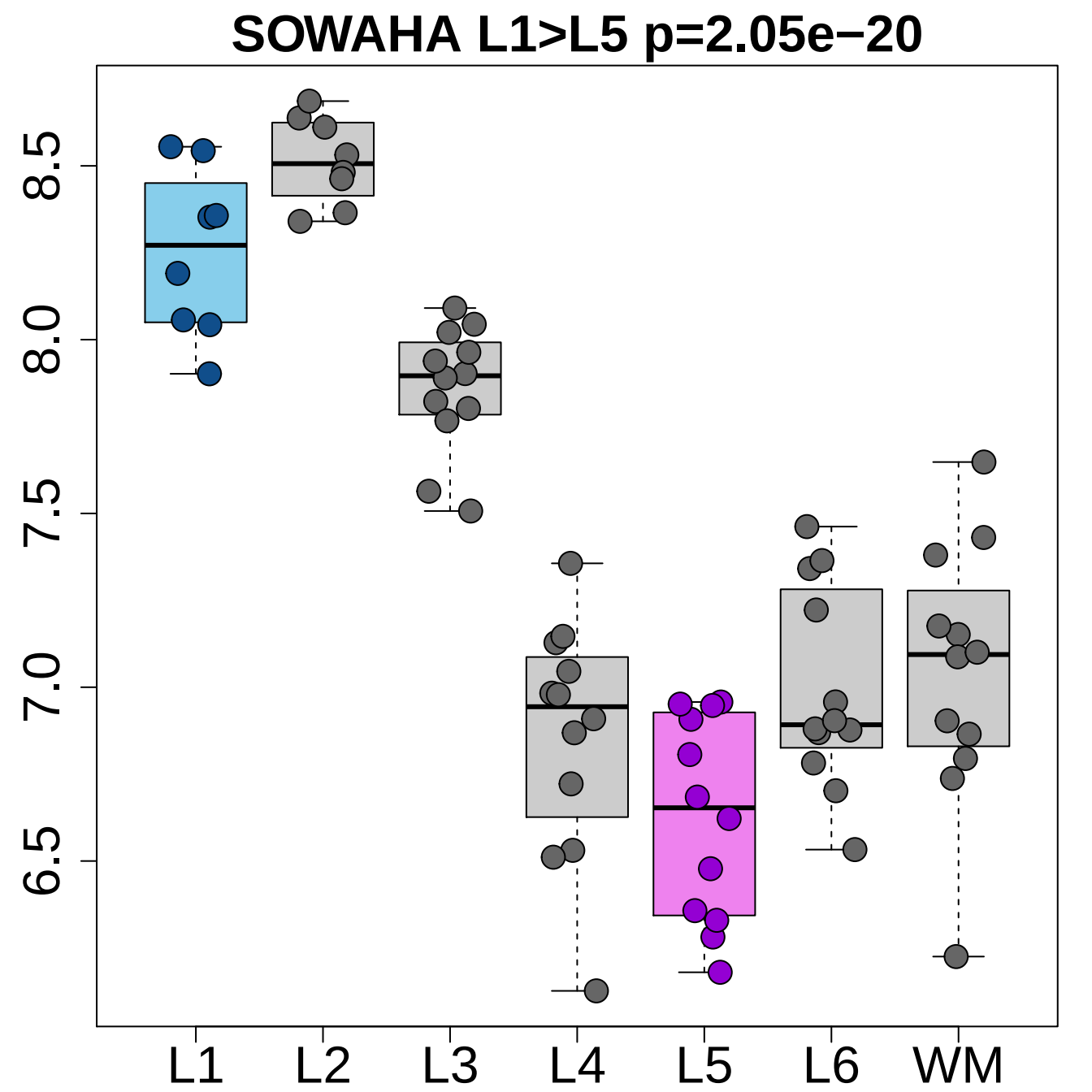
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


NECAB2 L1>L5 p=2.92e−22
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


CLU L1>L5 p=4.49e−21
13.0
12.8
12.6
12.4
12.2
L1
L2
L3
L4
L5
L6
WM


RELN L1>L5 p=8.48e−21
8
7
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM


SOWAHA L1>L5 p=2.05e−20
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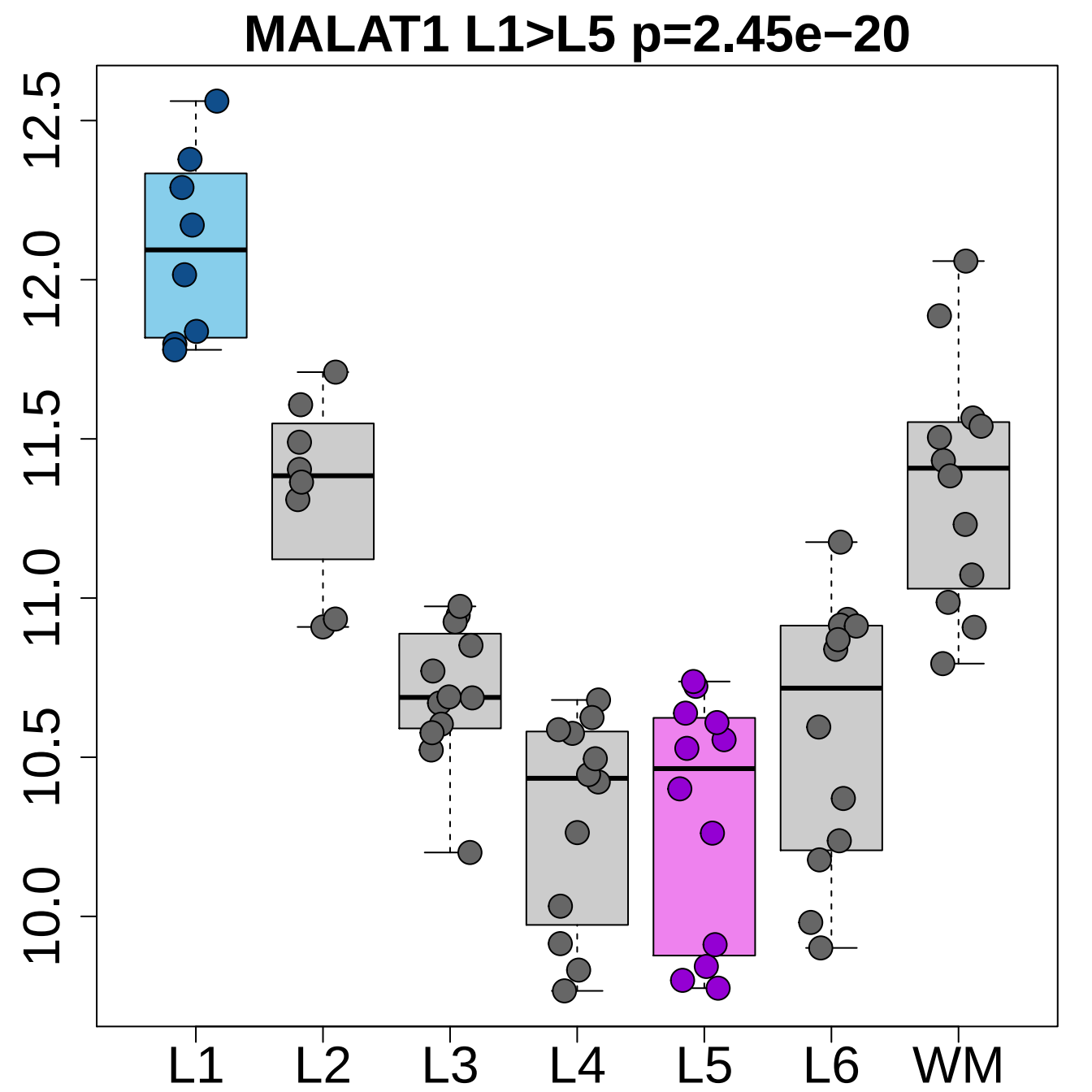
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


MALAT1 L1>L5 p=2.45e−20
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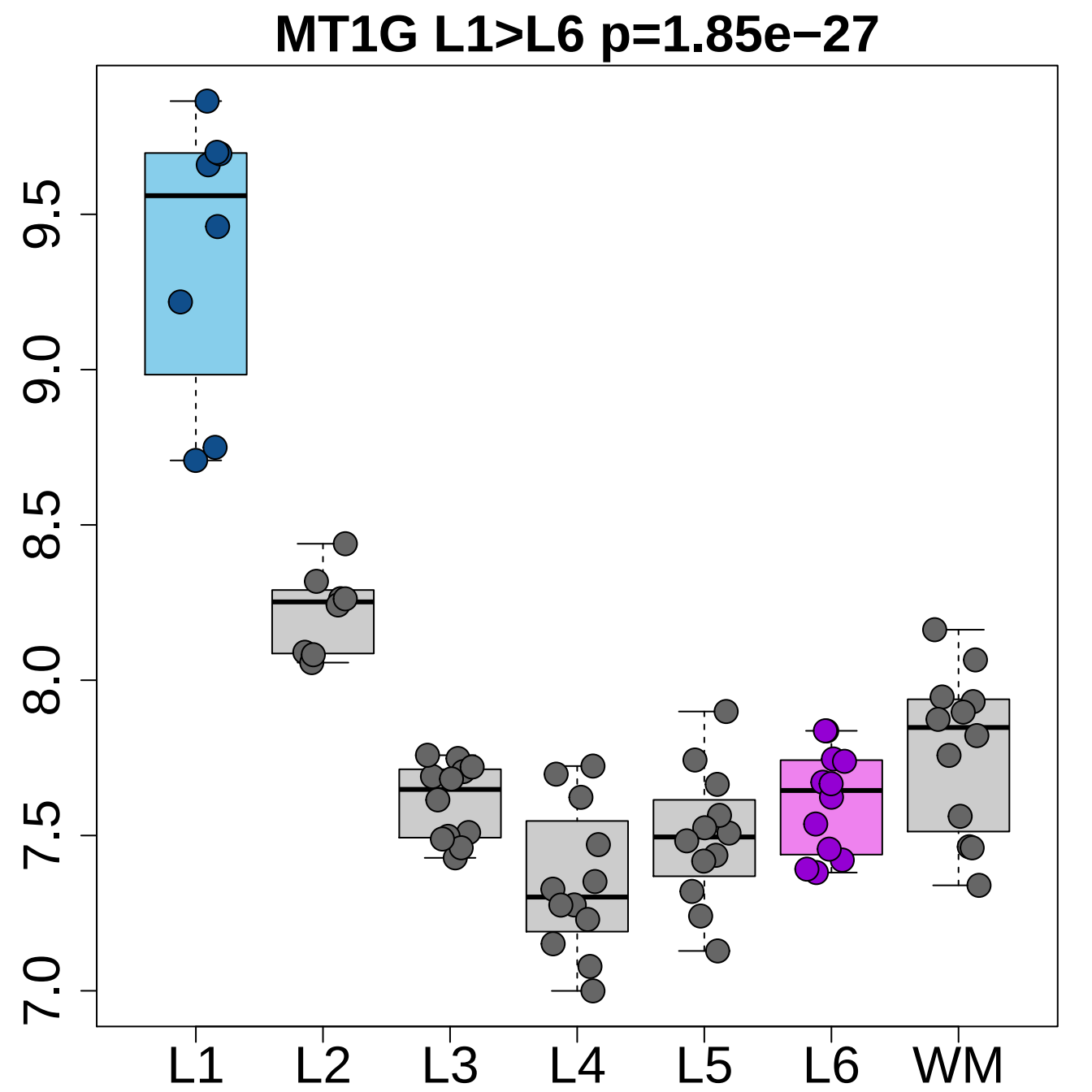
12.0
11.5
11.0
10.5
10.0
L1
L2
L3
L4
L5
L6
WM


MT1G L1>L6 p=1.85e−27
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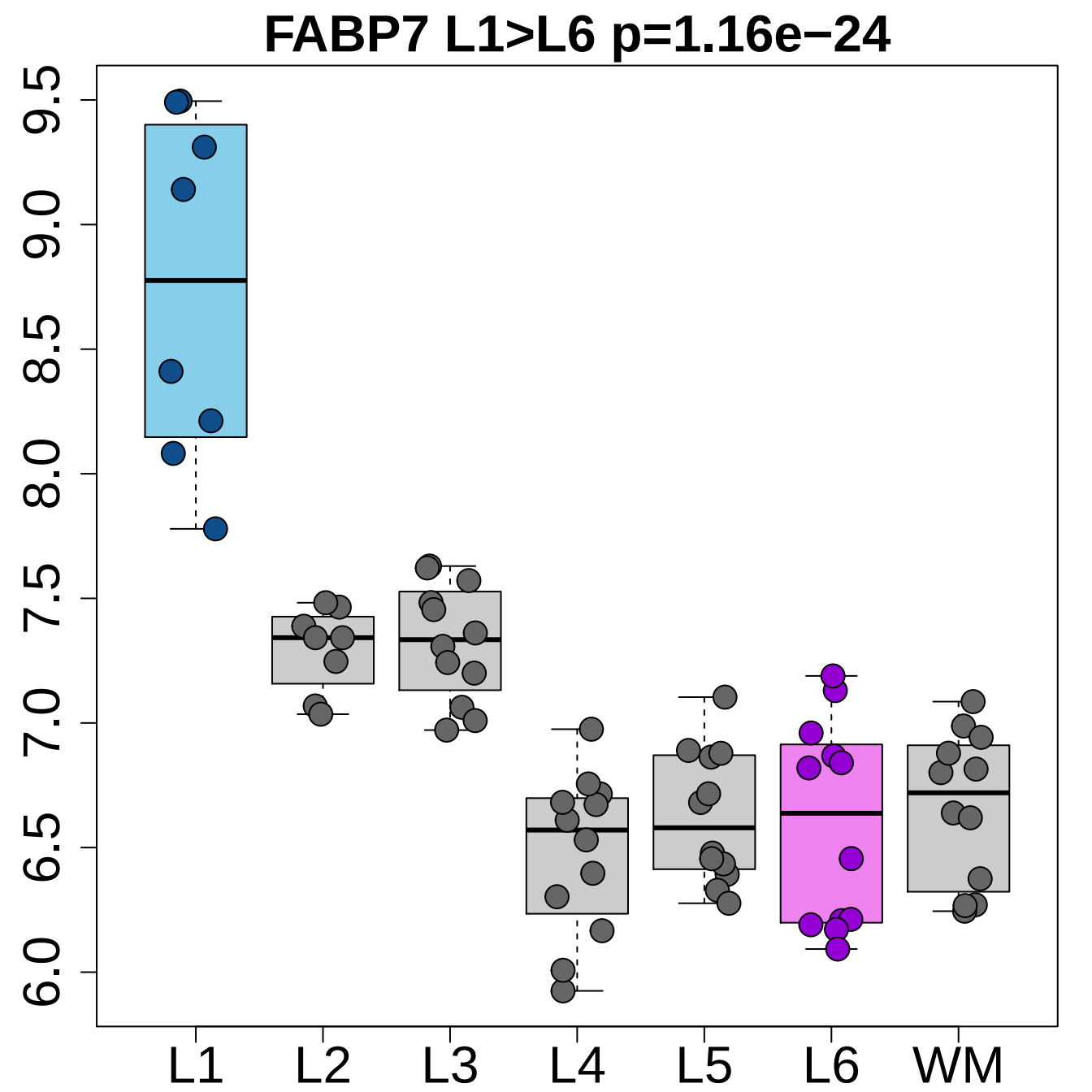
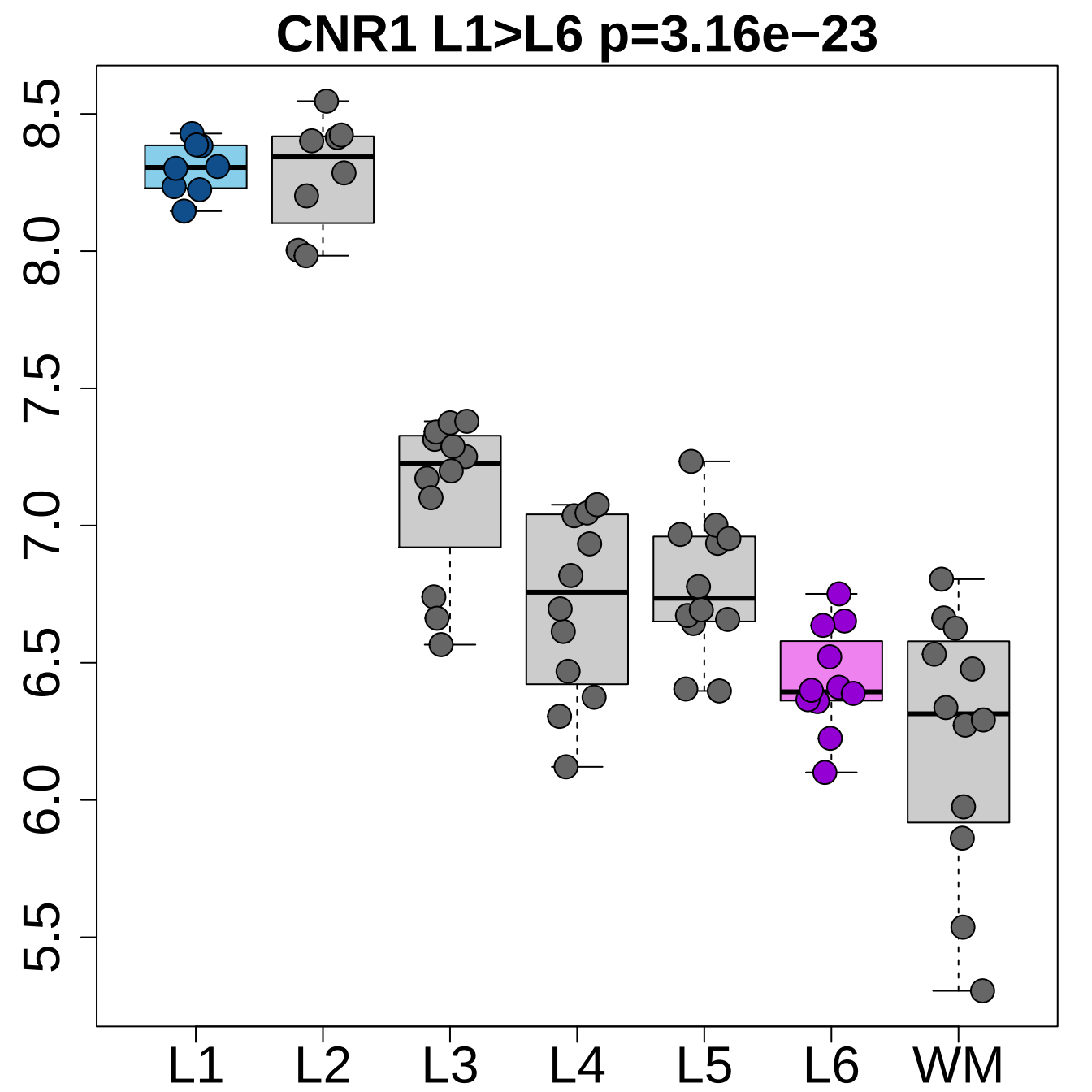
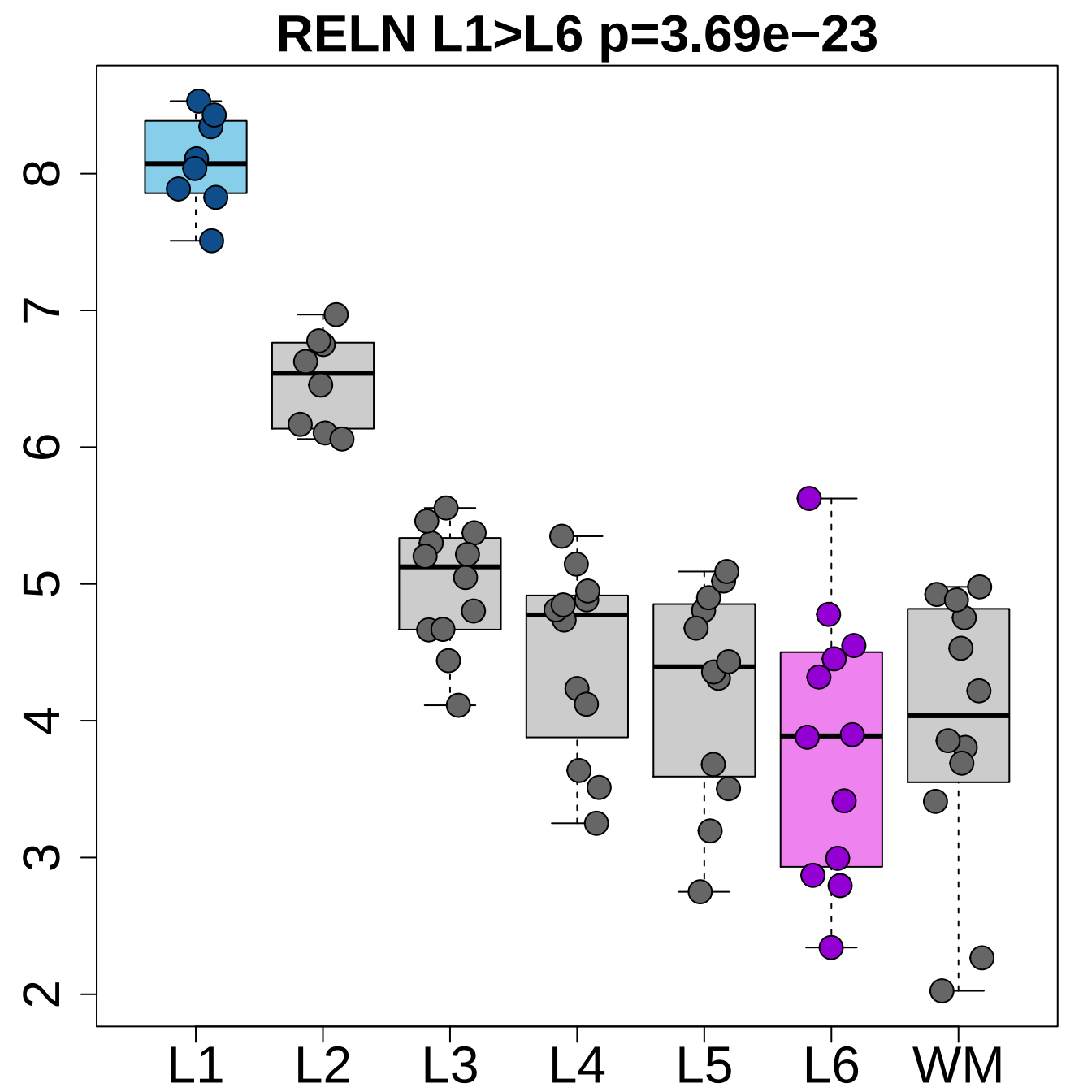
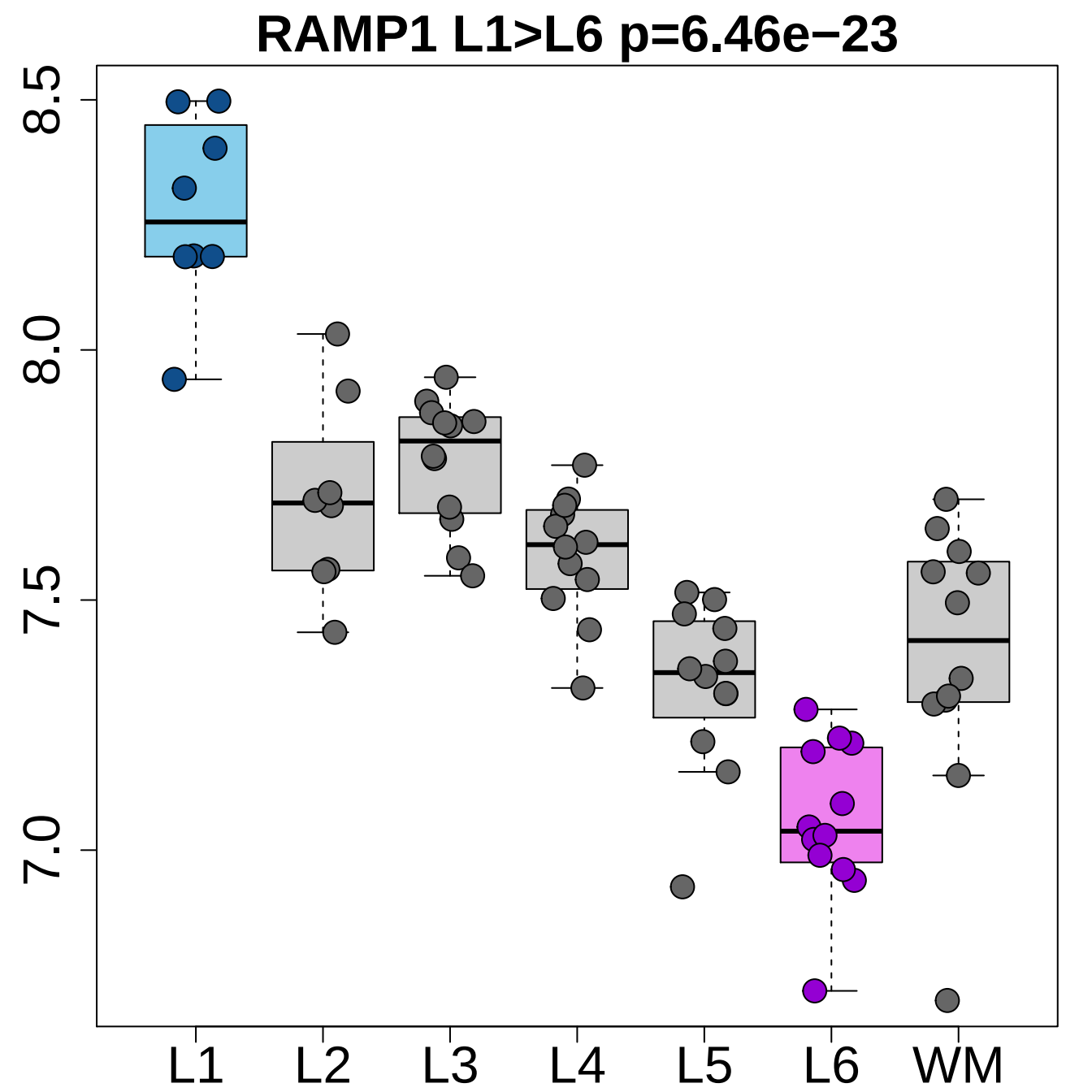
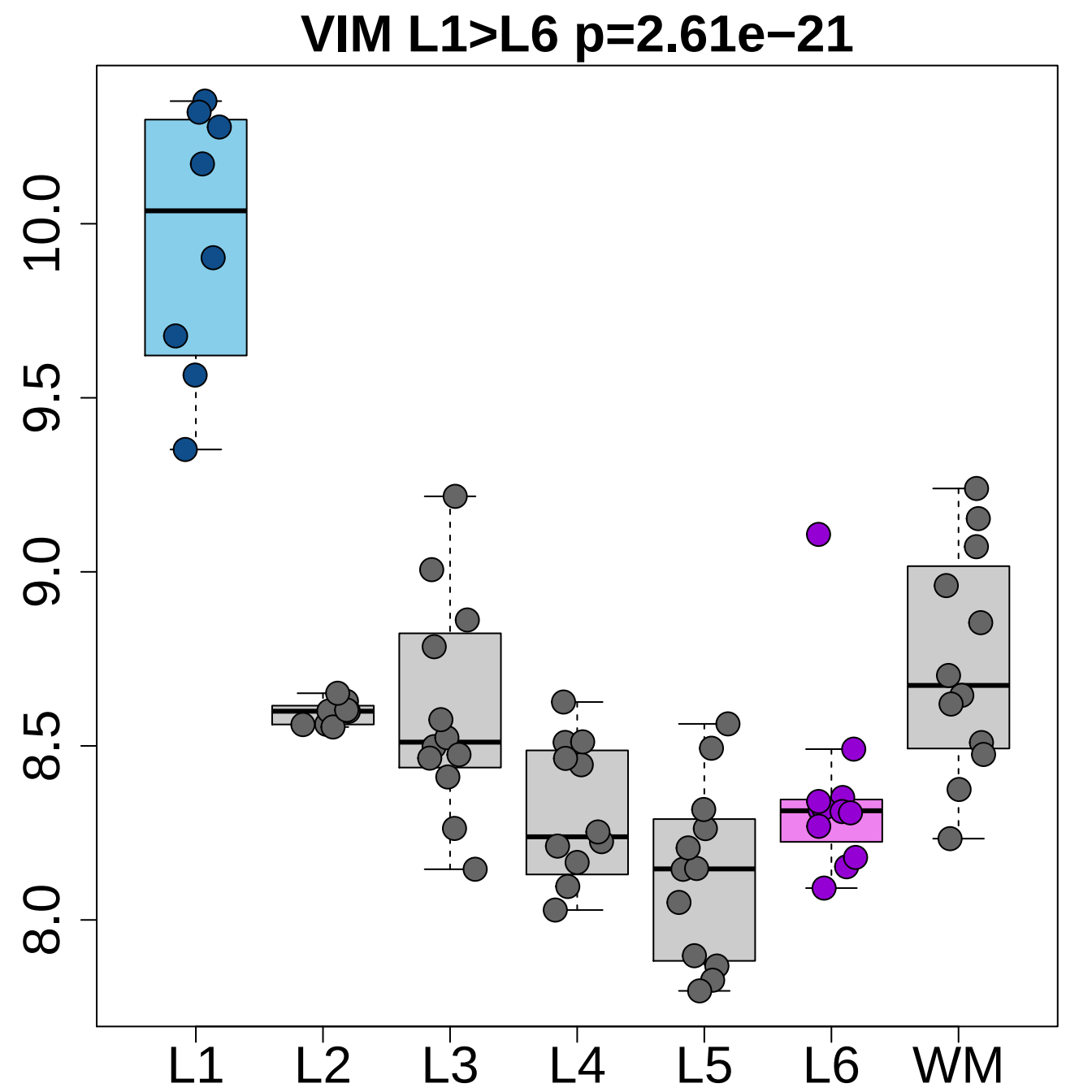
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


FABP7 L1>L6 p=1.16e−24
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


CNR1 L1>L6 p=3.16e−23
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


RELN L1>L6 p=3.69e−23
8
7
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM


RAMP1 L1>L6 p=6.46e−23
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


VIM L1>L6 p=2.61e−21
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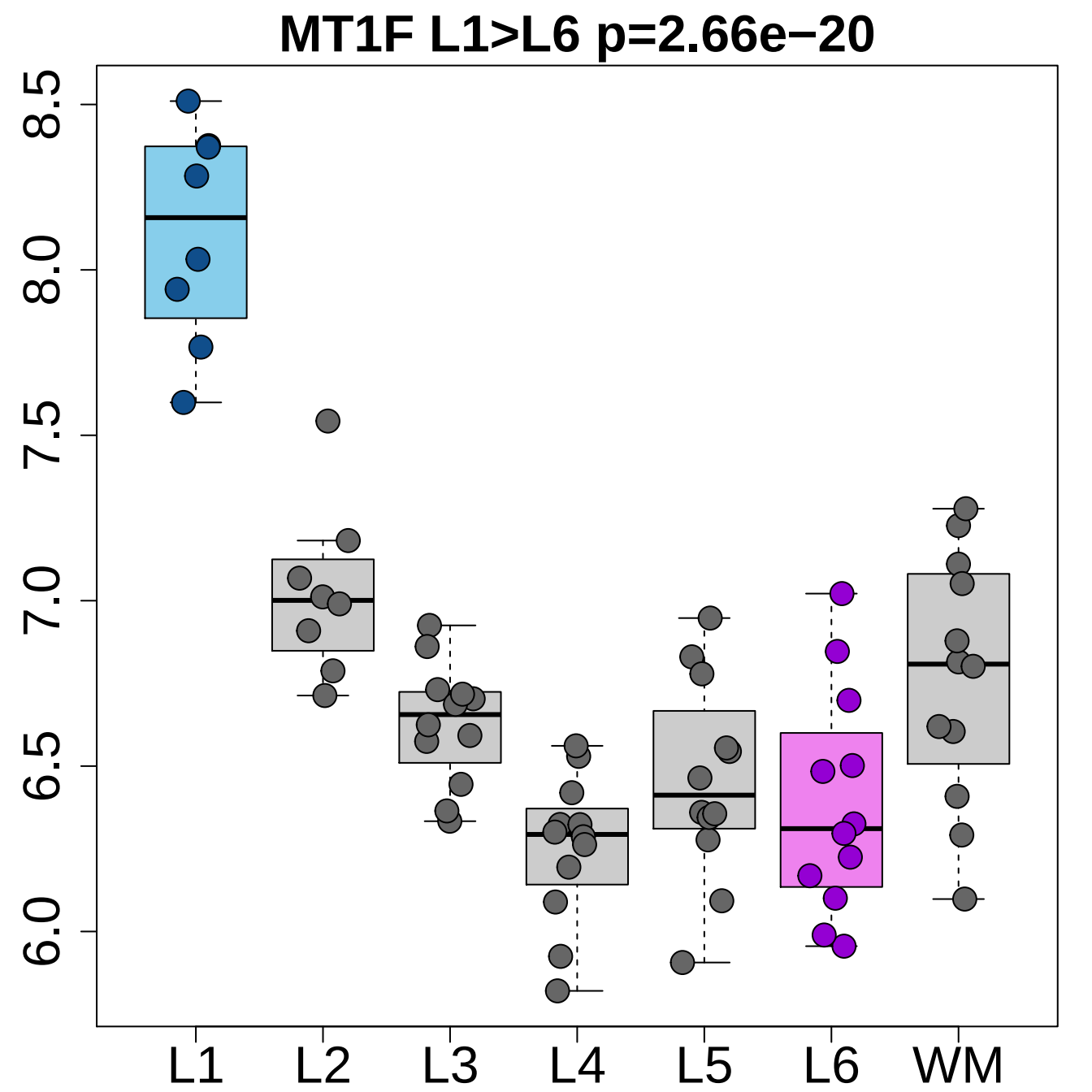
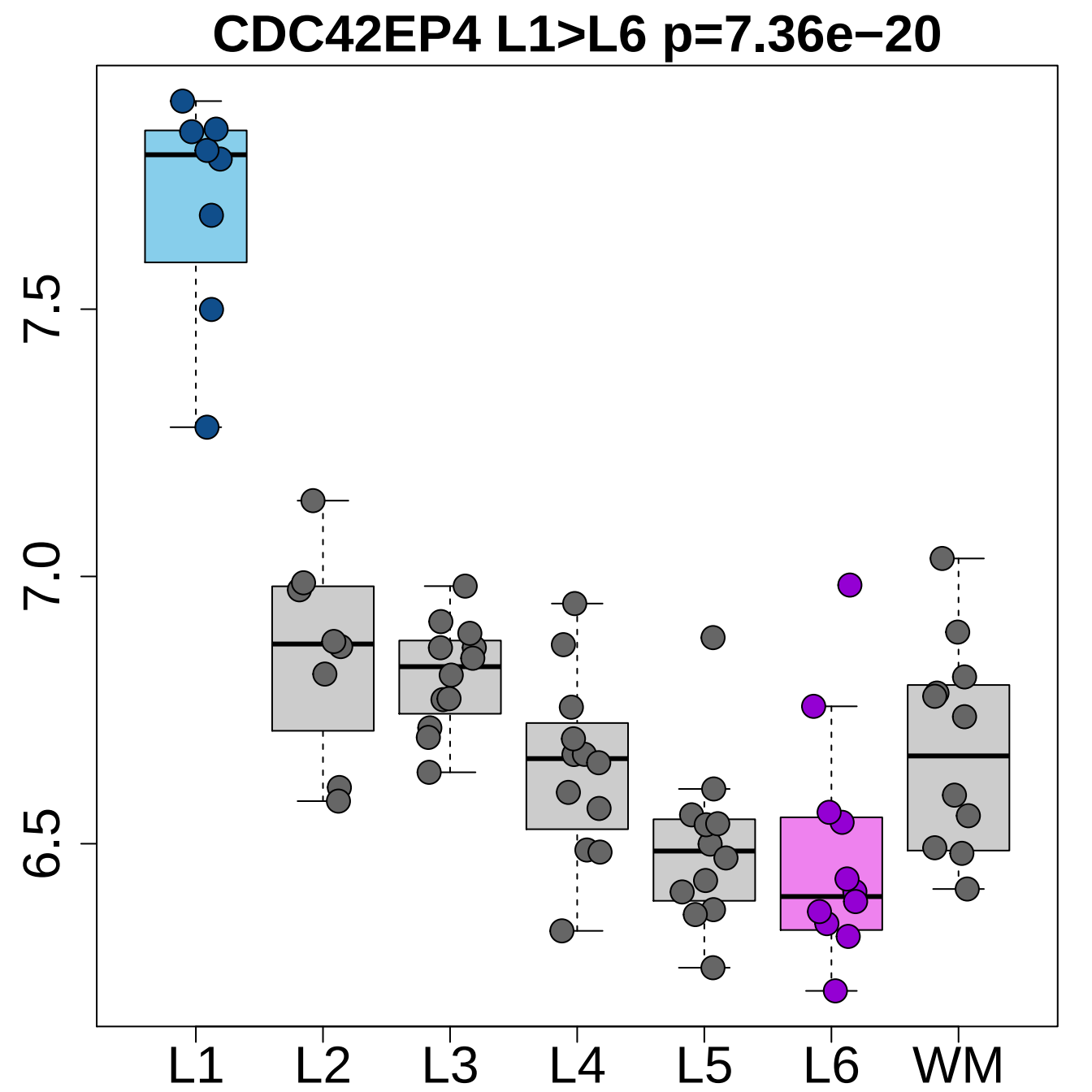
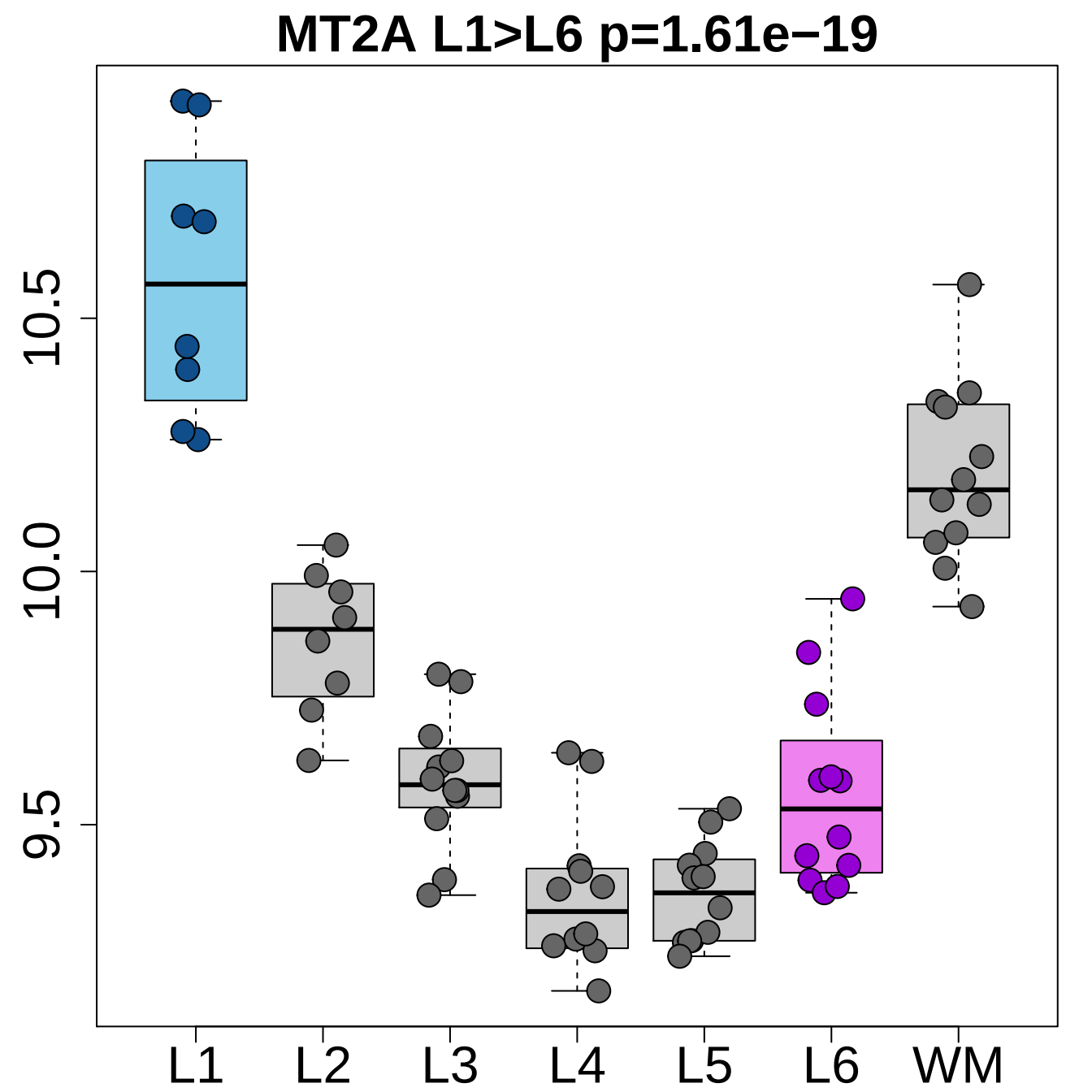
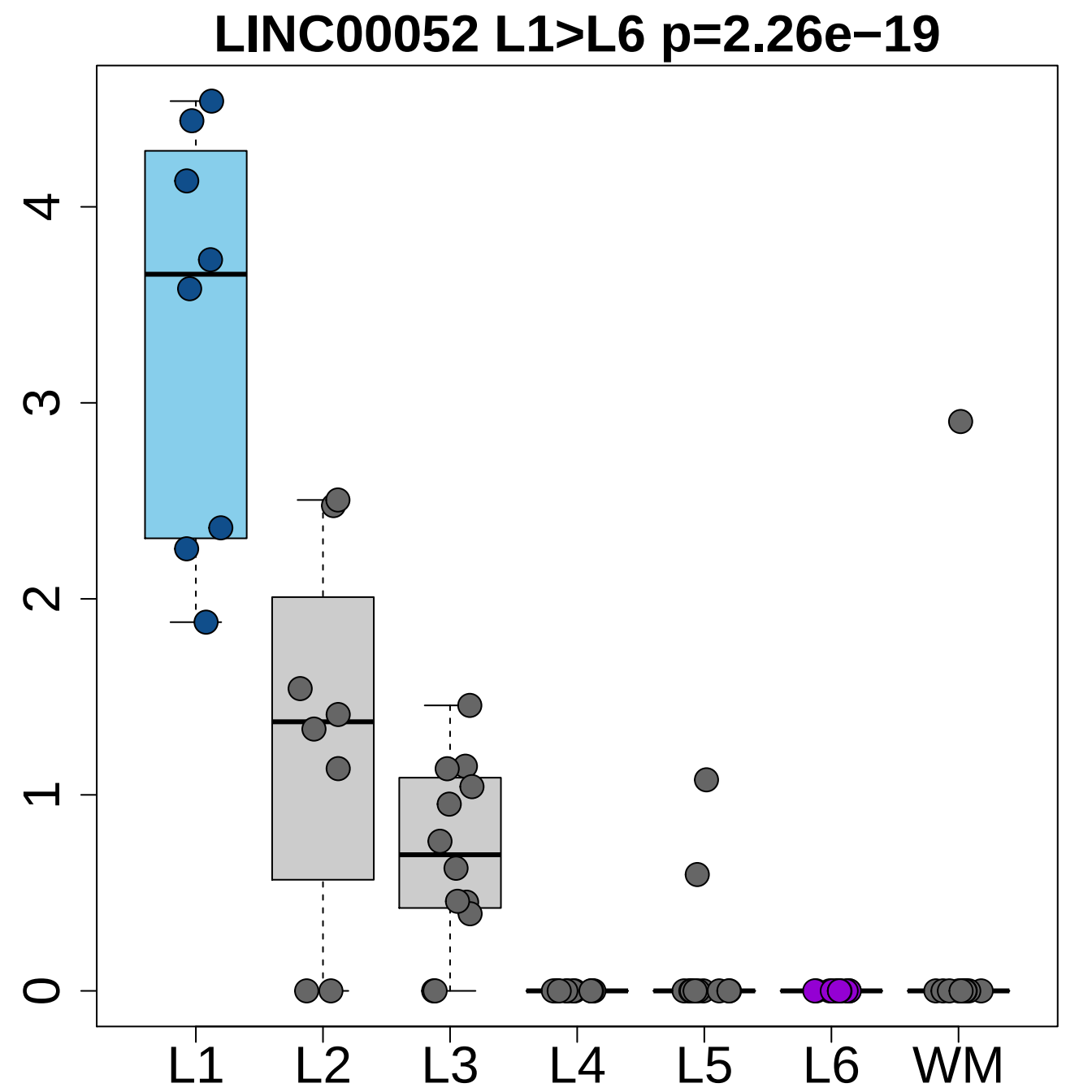
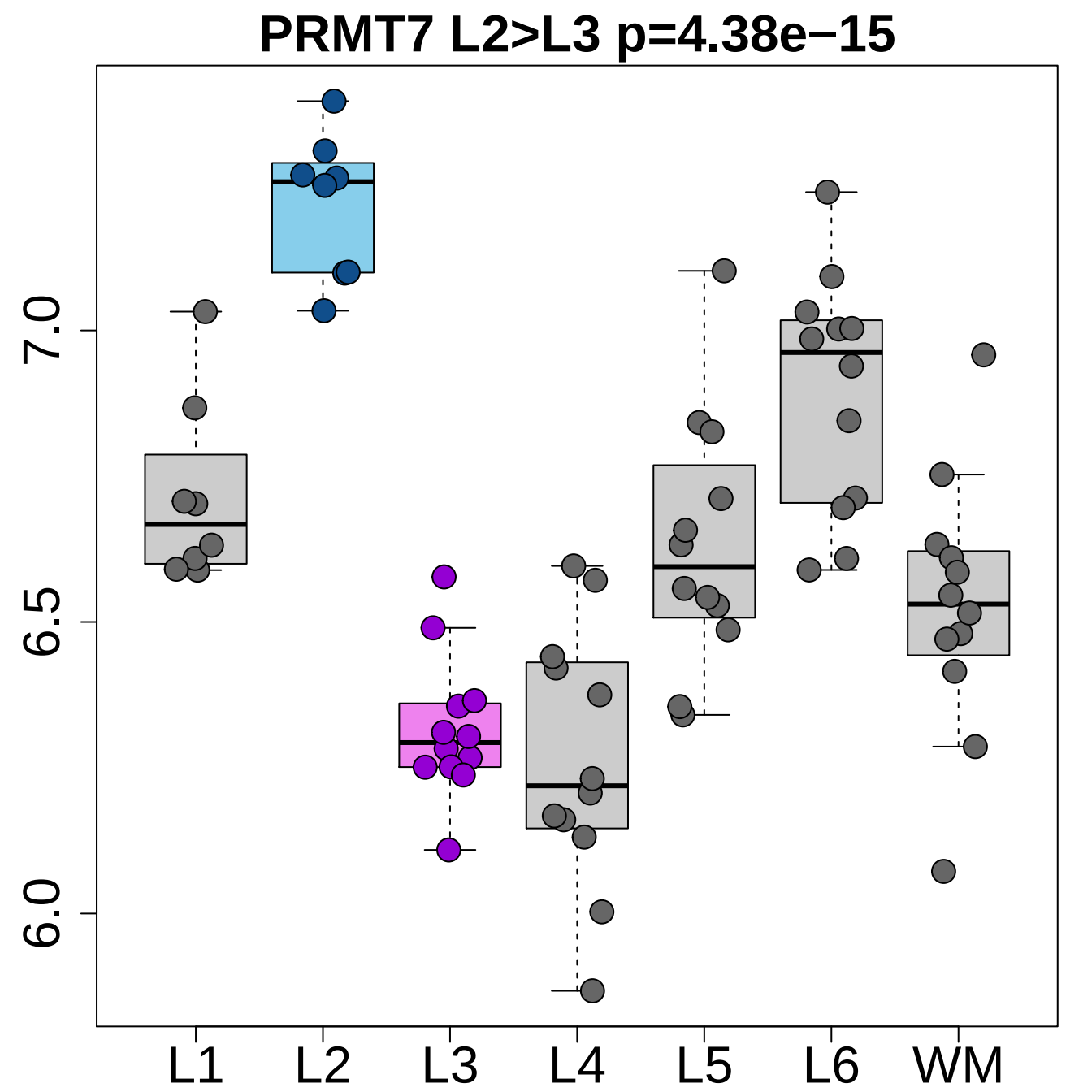
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

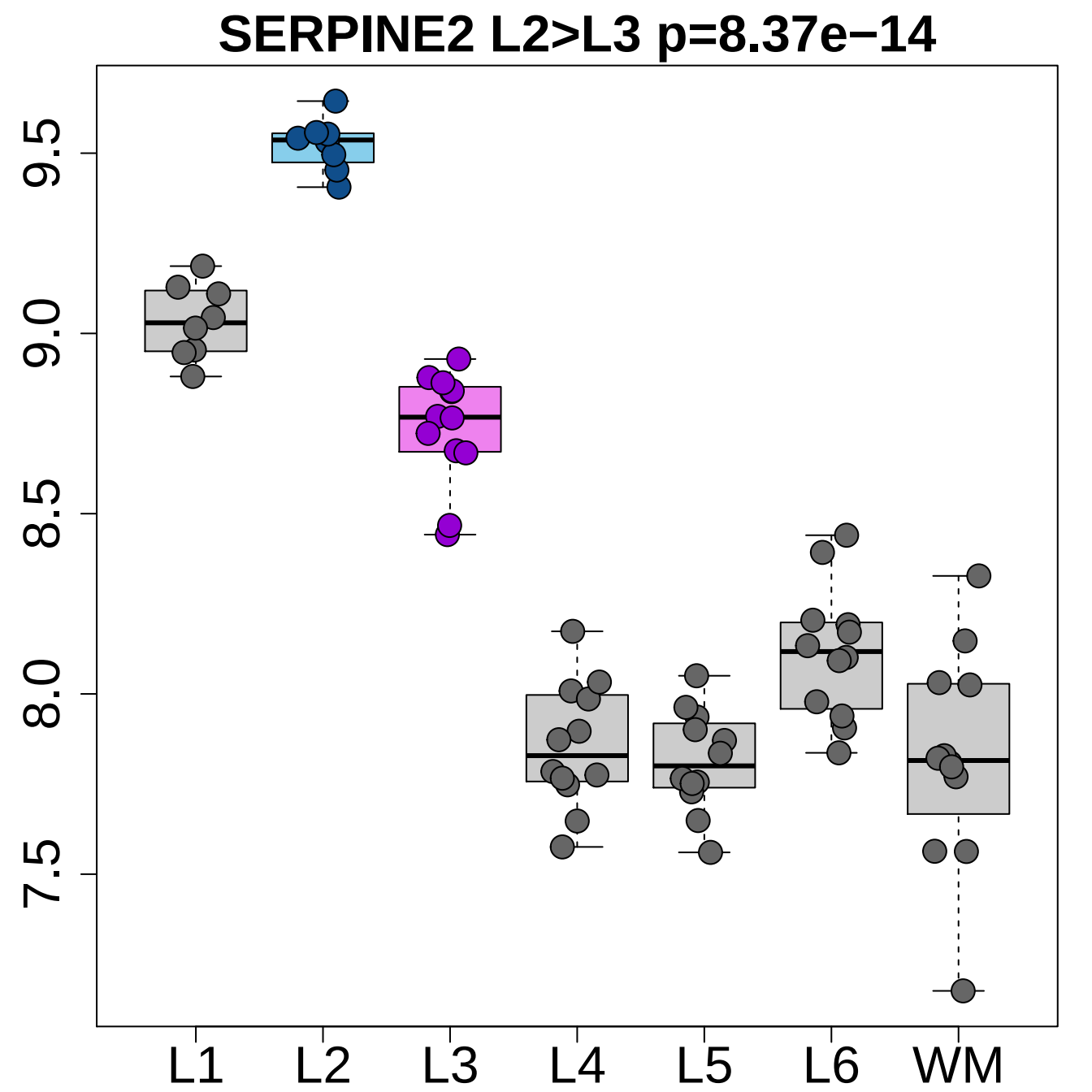

MT1F L1>L6 p=2.66e−20
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


CDC42EP4 L1>L6 p=7.36e−20
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


MT2A L1>L6 p=1.61e−19
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM


LINC00052 L1>L6 p=2.26e−19
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM


PRMT7 L2>L3 p=4.38e−15
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L2>L3 p=8.37e−14
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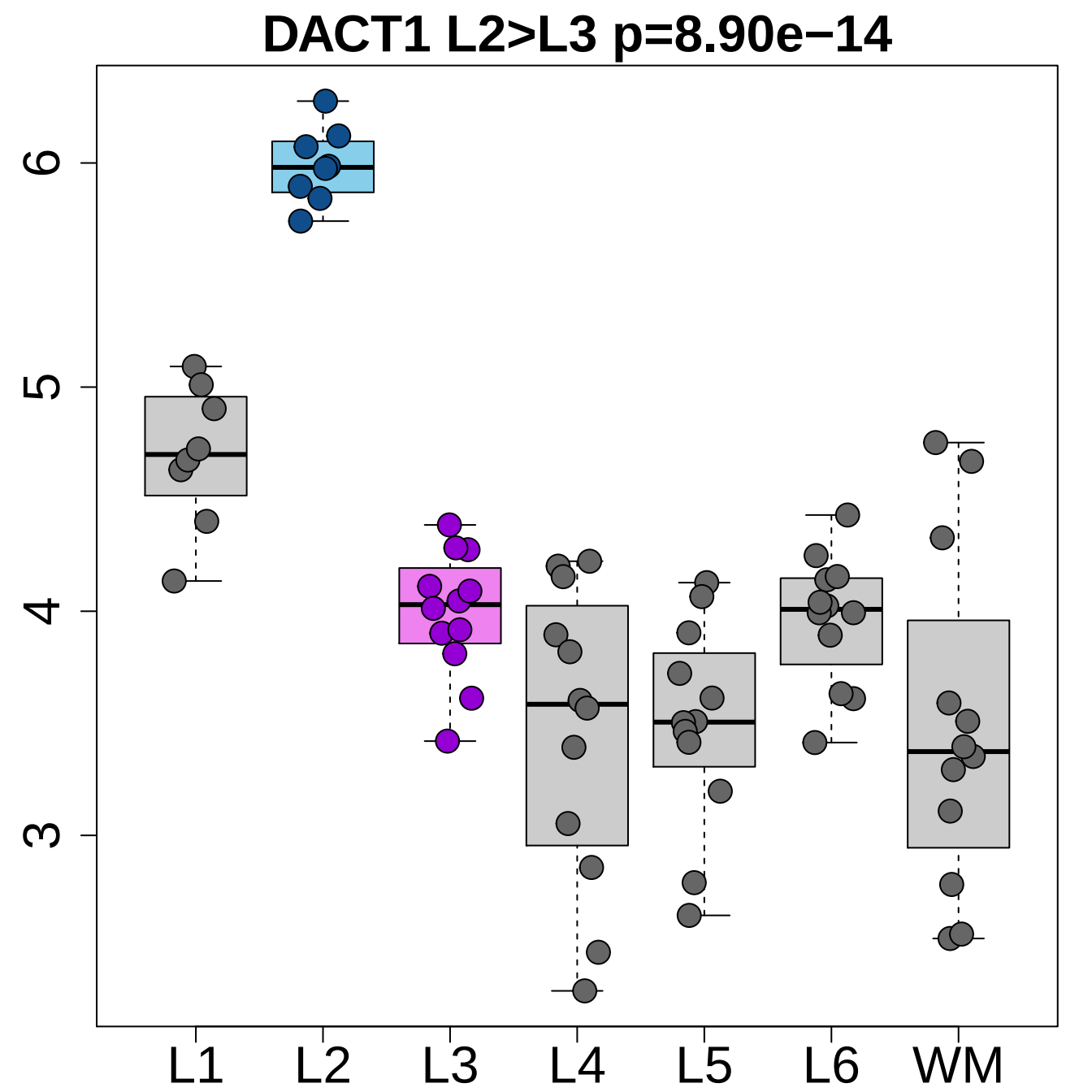
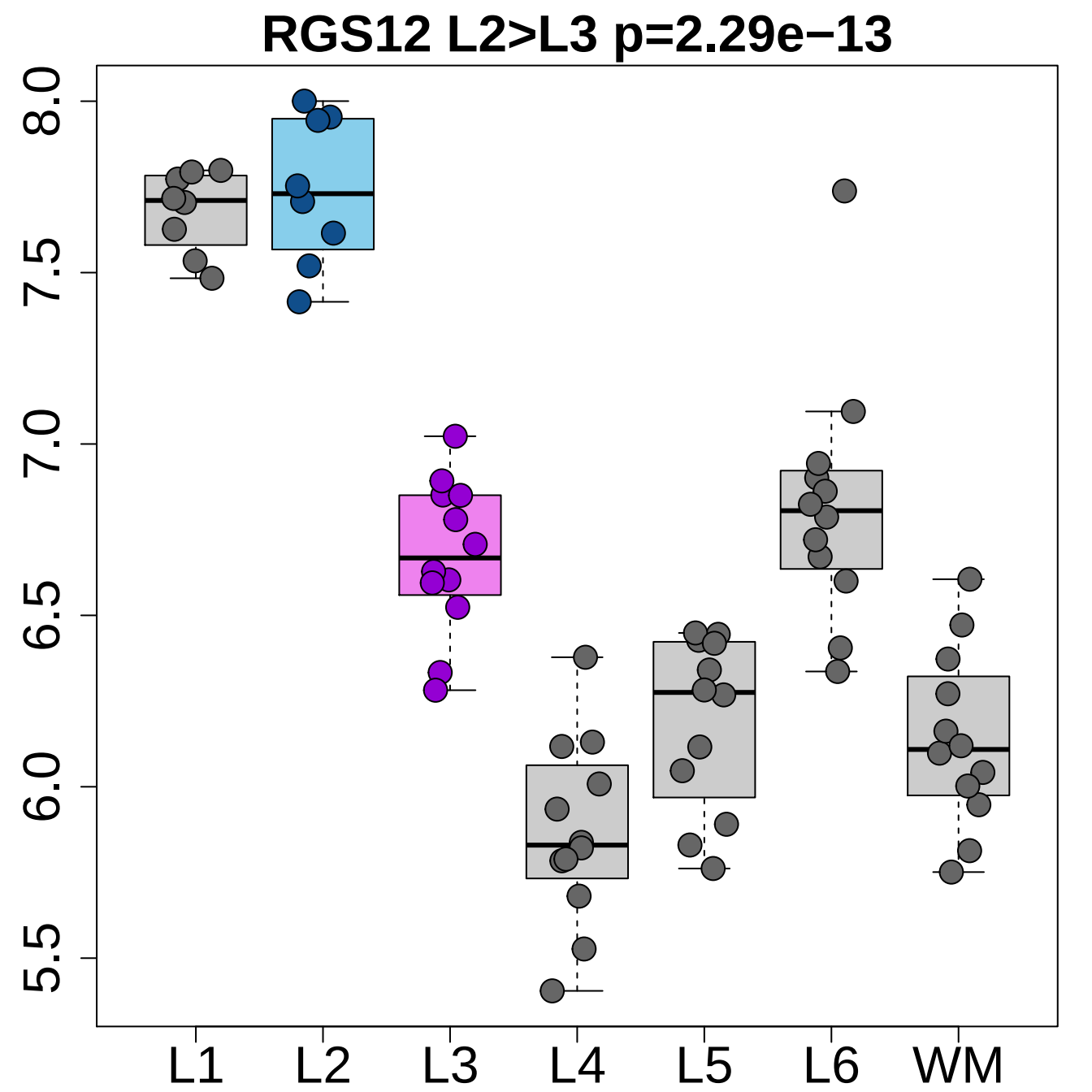
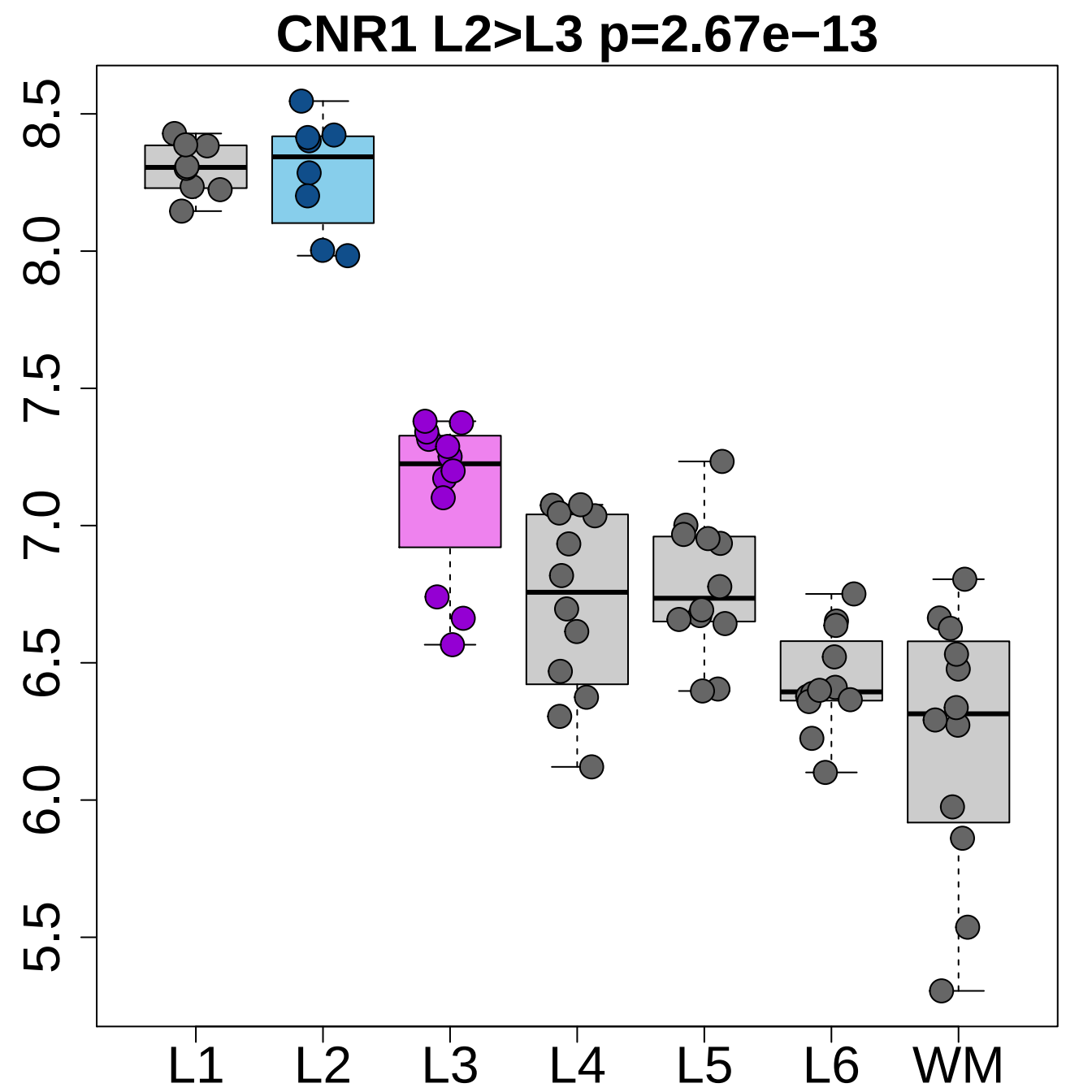
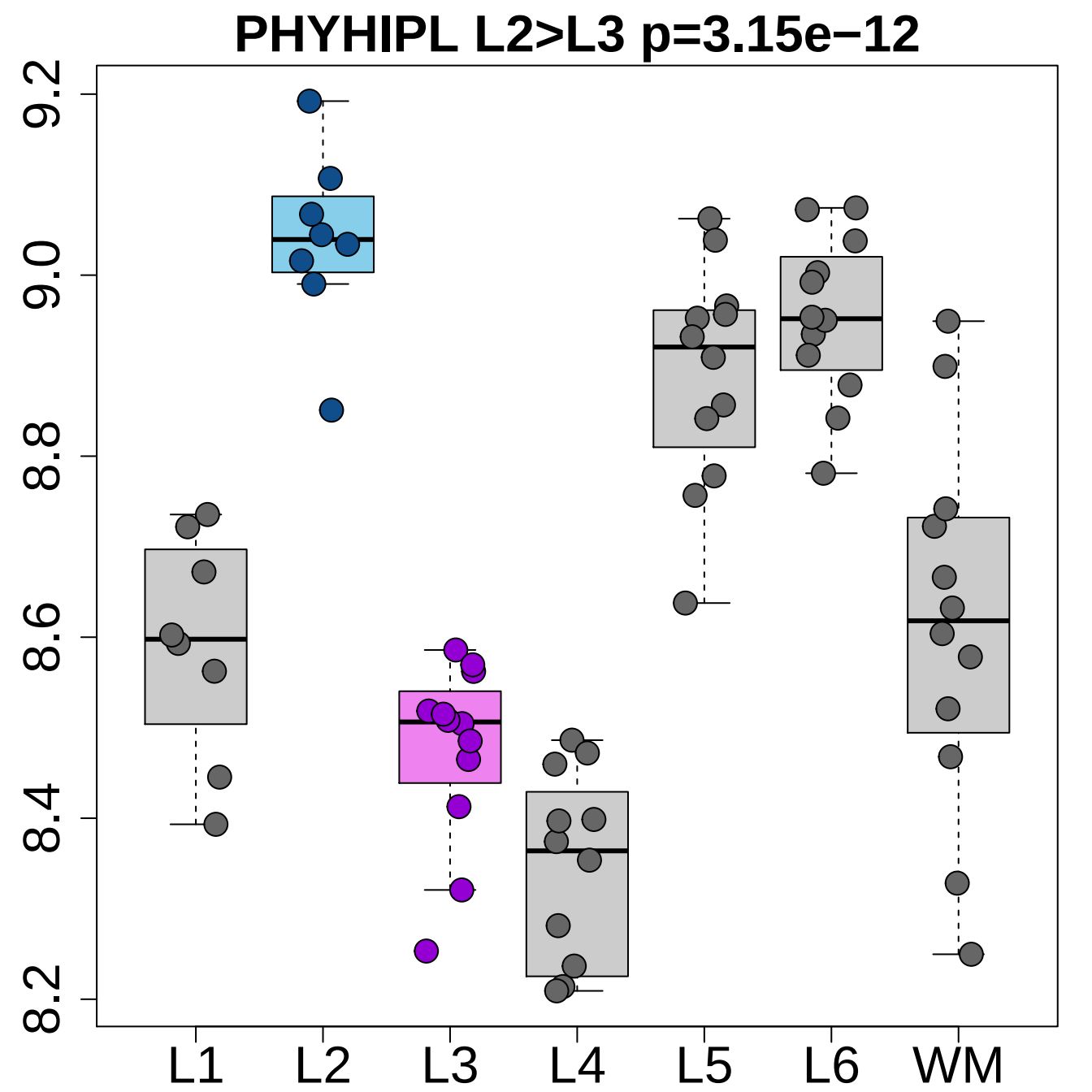
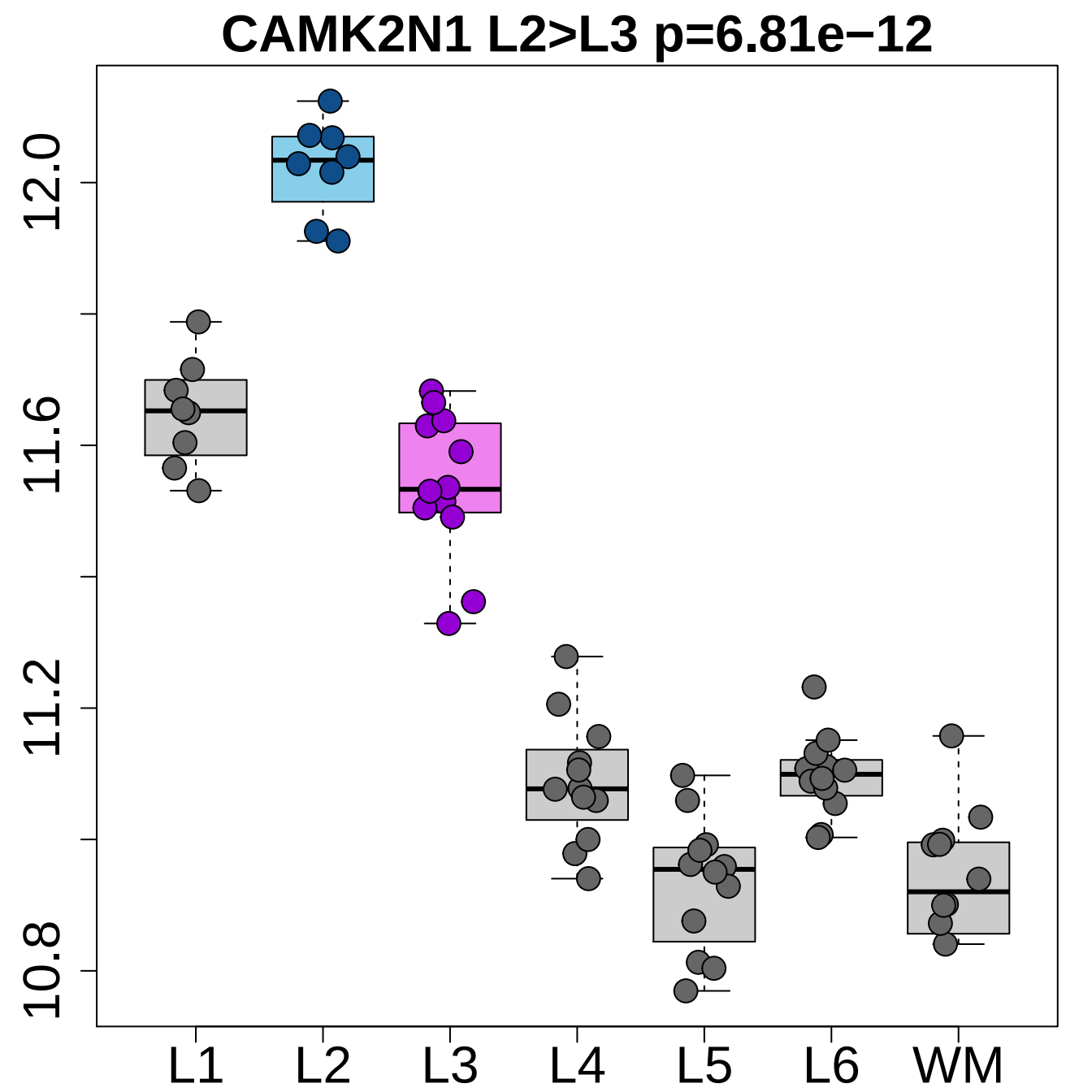
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

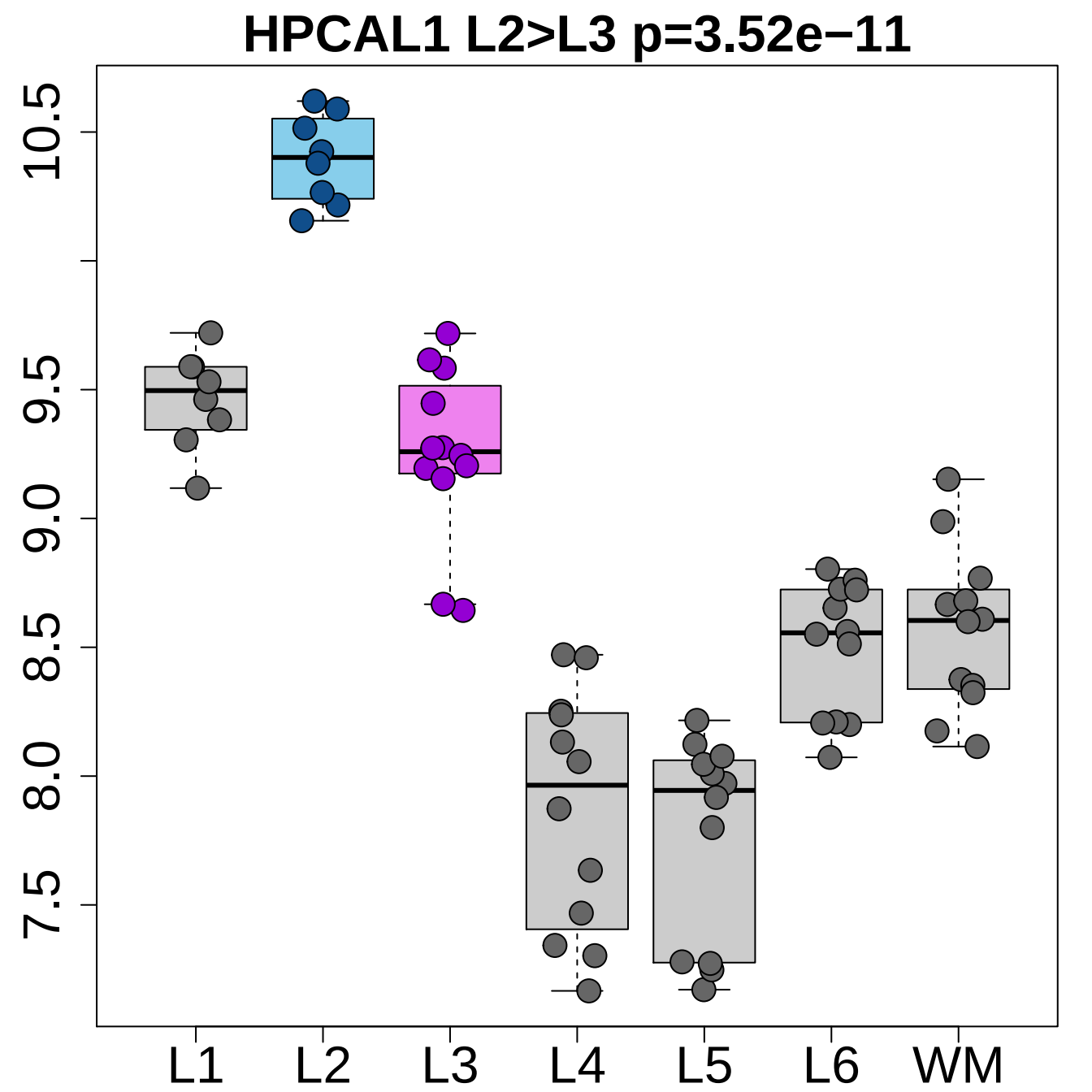

DACT1 L2>L3 p=8.90e−14
6
5
4
3
L1
L2
L3
L4
L5
L6
WM

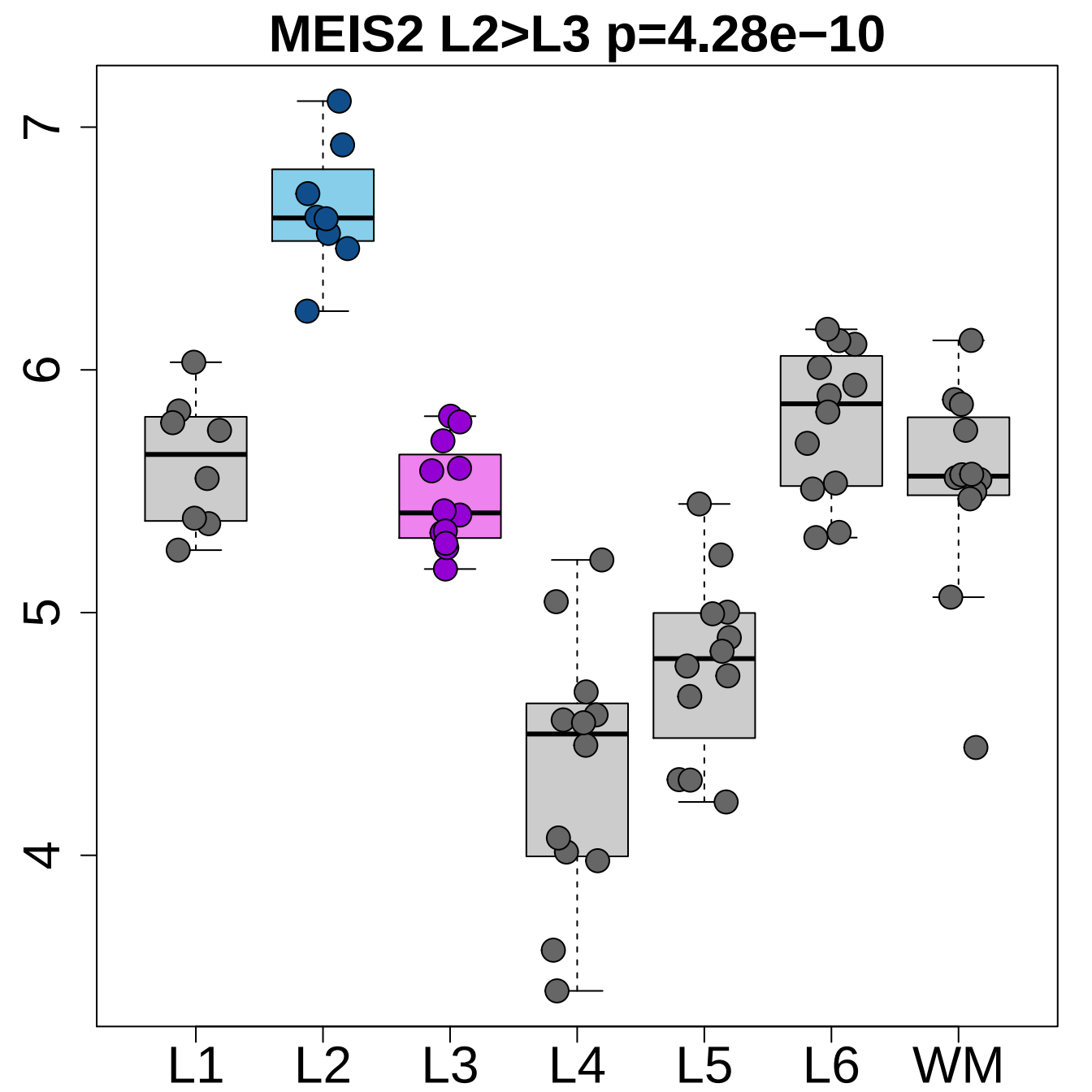

RGS12 L2>L3 p=2.29e−13
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

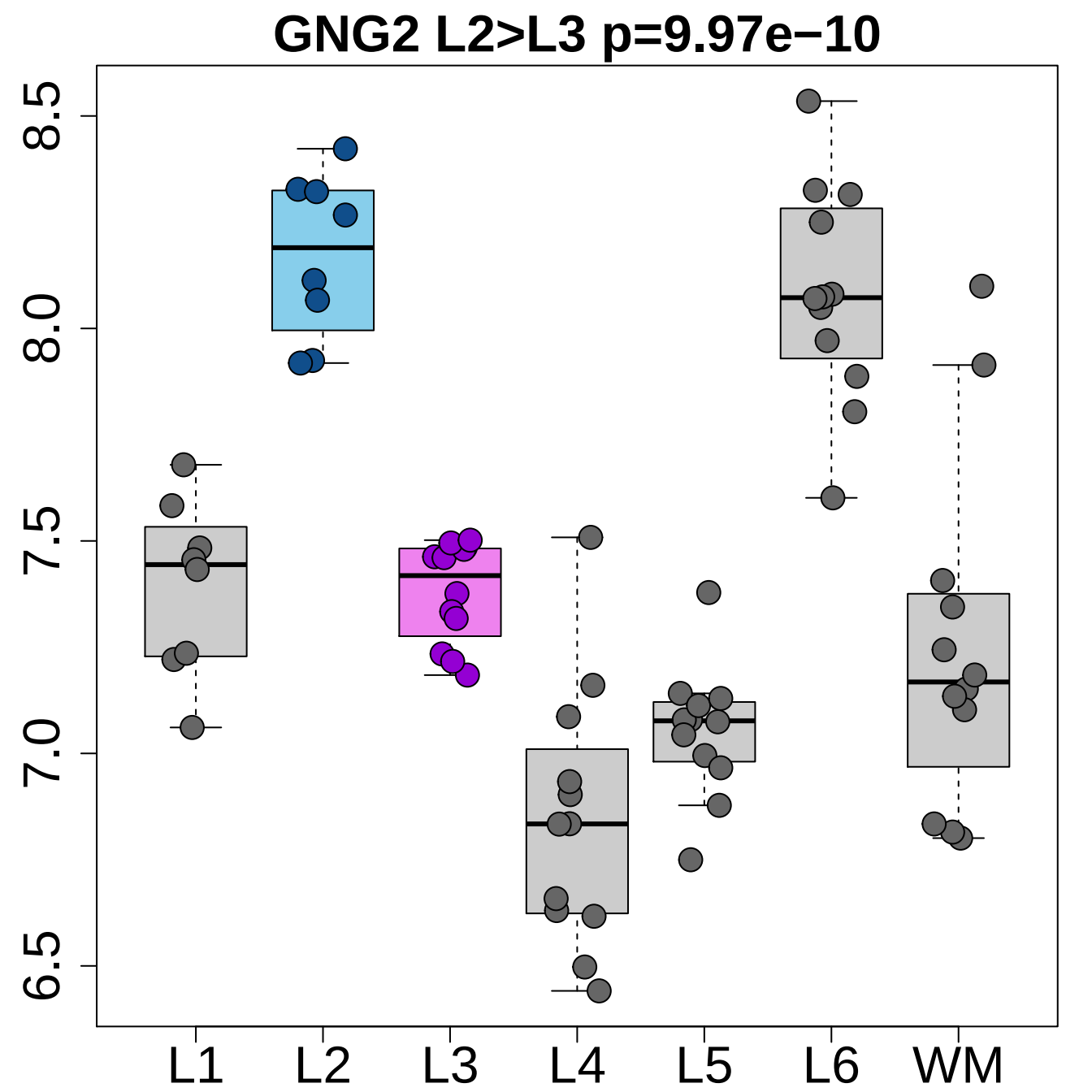

CNR1 L2>L3 p=2.67e−13
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

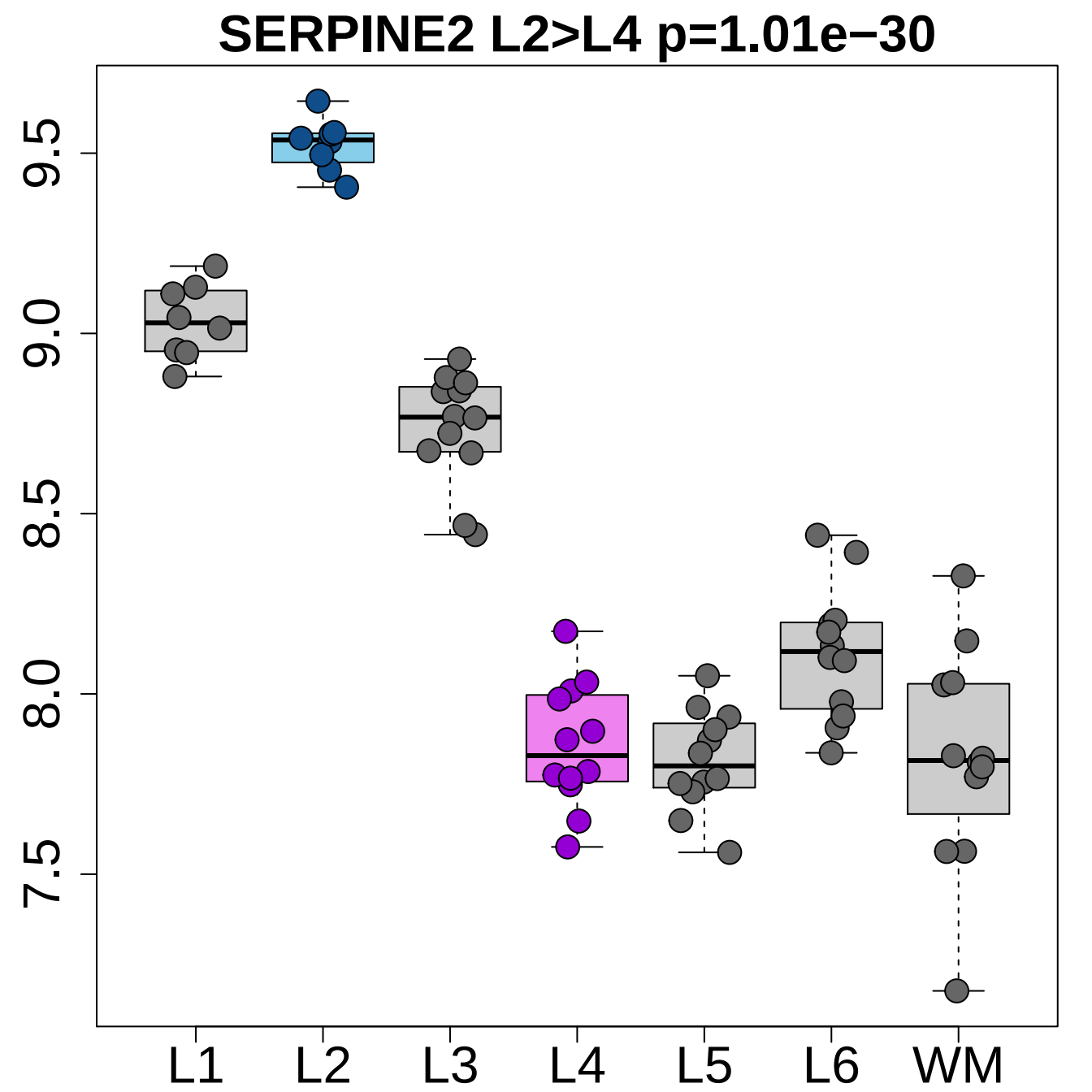

PHYHIPL L2>L3 p=3.15e−12
9.2
9.0
8.8
8.6
8.4
8.2
L1
L2
L3
L4
L5
L6
WM


CAMK2N1 L2>L3 p=6.81e−12
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM


HPCAL1 L2>L3 p=3.52e−11
10.5
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


MEIS2 L2>L3 p=4.28e−10
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


GNG2 L2>L3 p=9.97e−10
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L2>L4 p=1.01e−30
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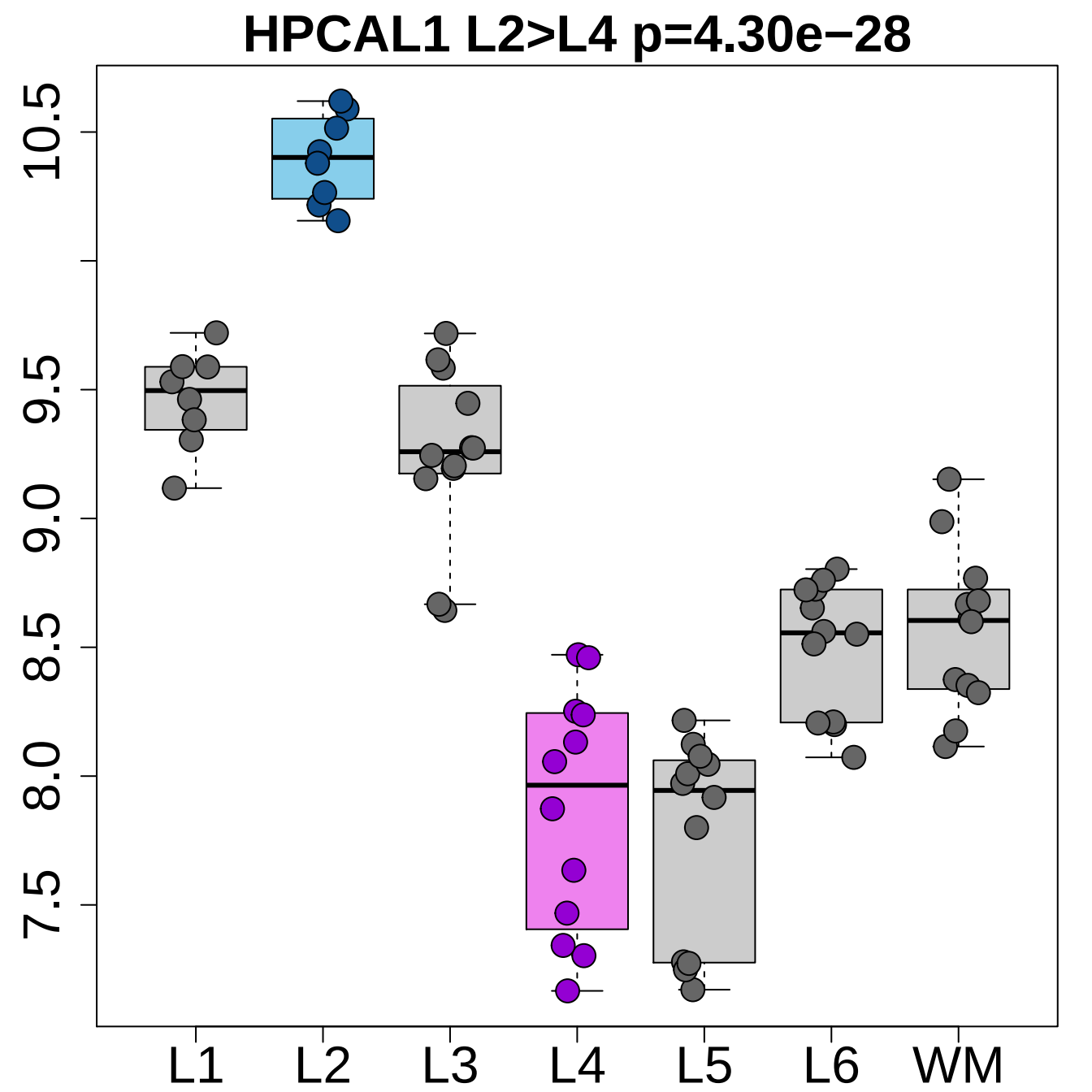
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


HPCAL1 L2>L4 p=4.30e−28
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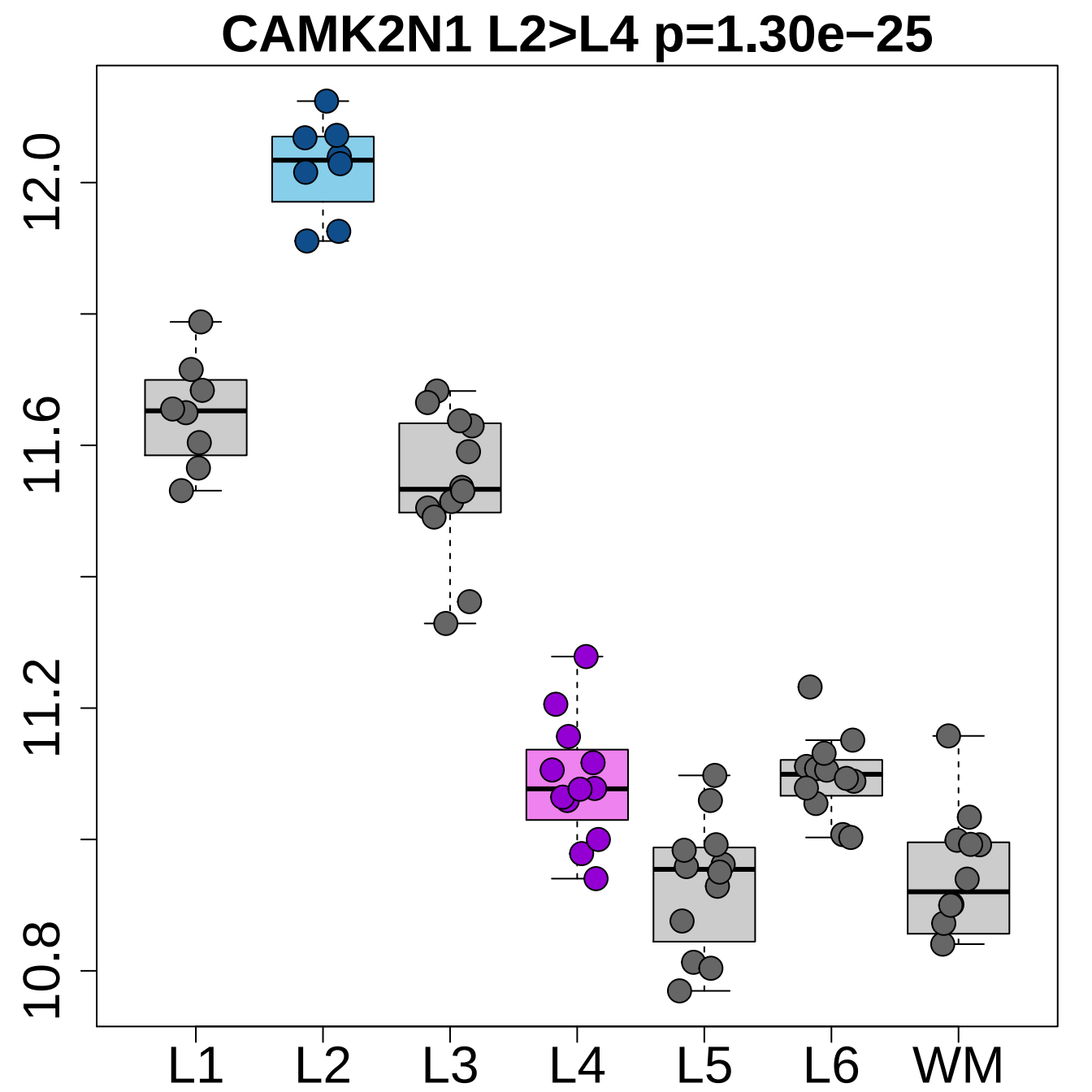
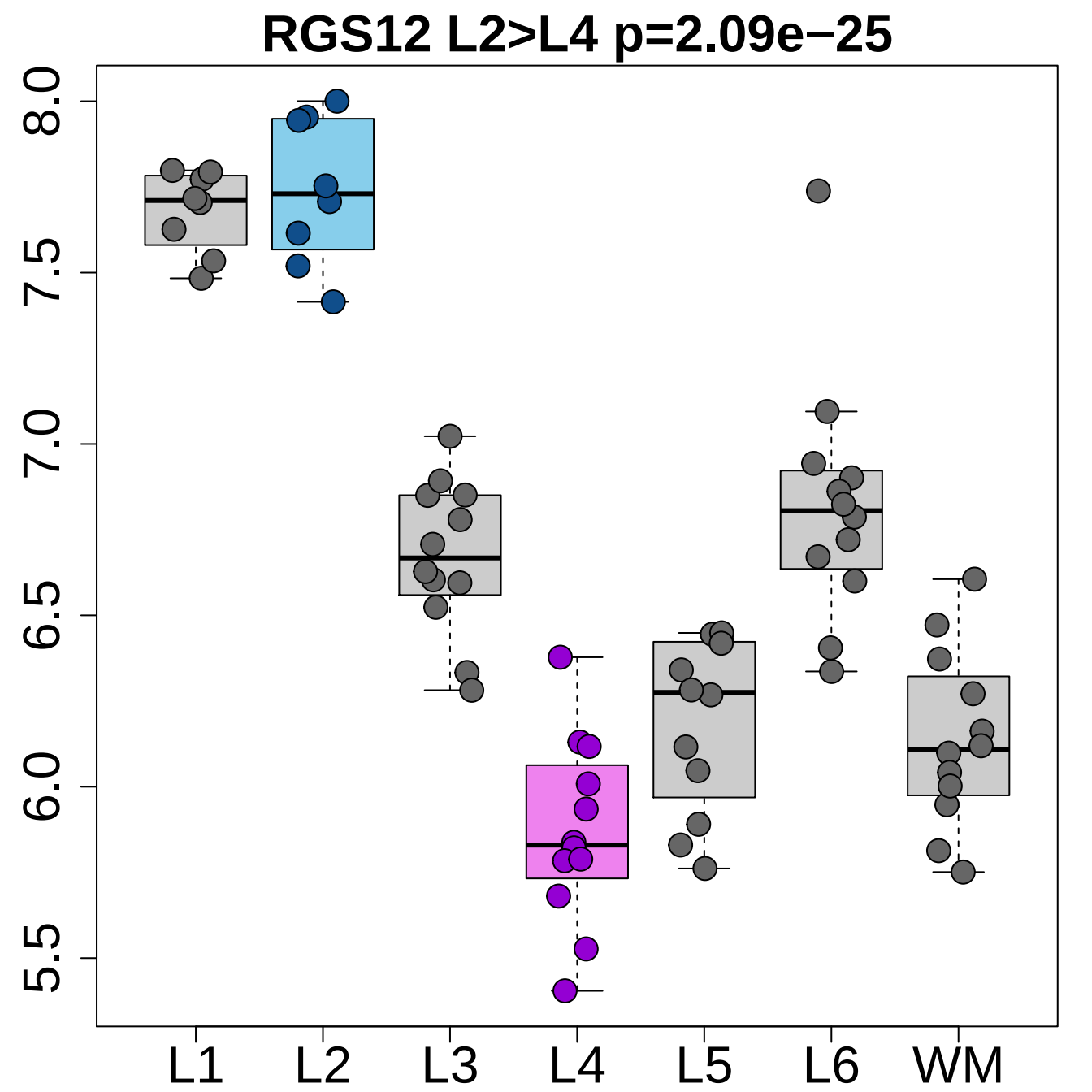
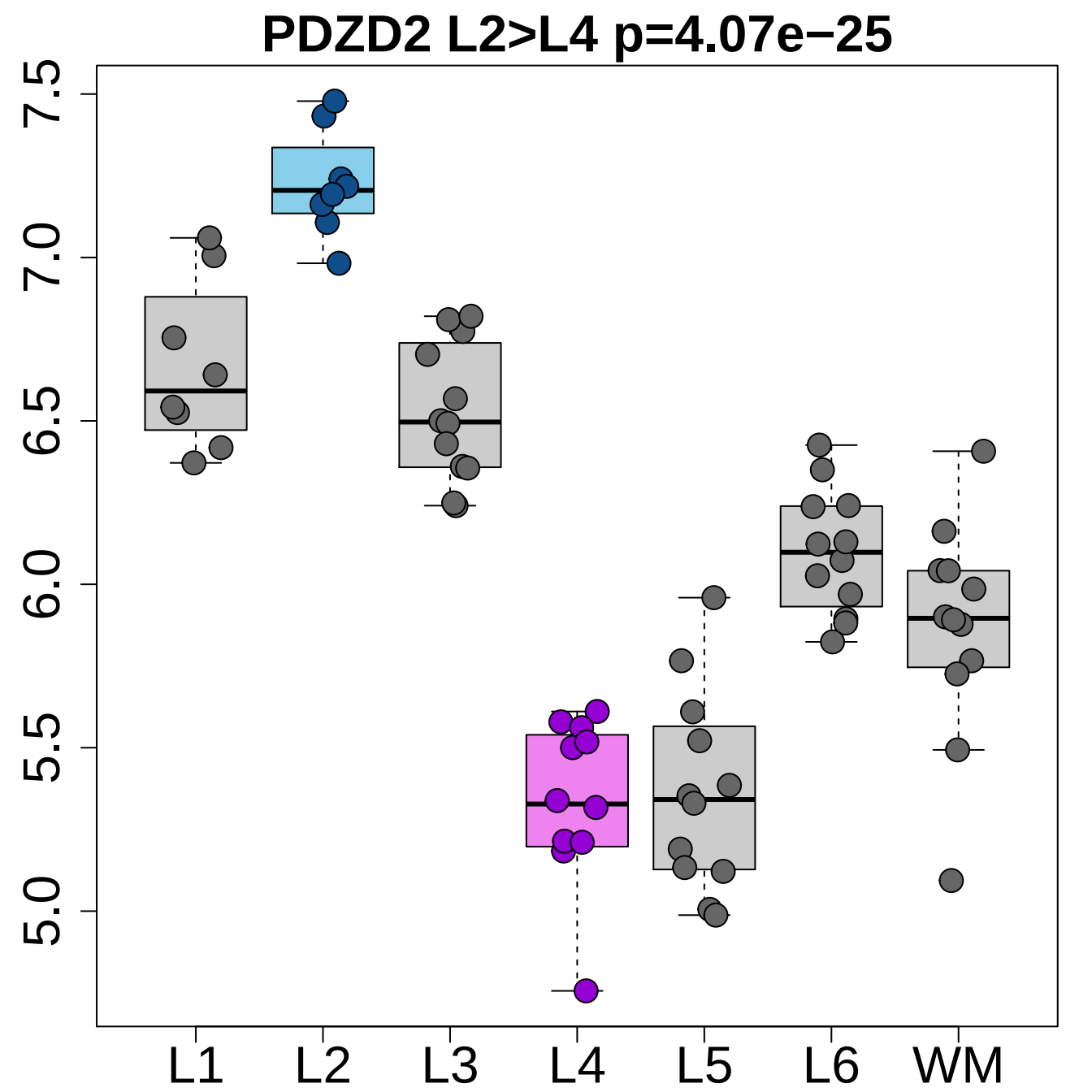
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


CAMK2N1 L2>L4 p=1.30e−25
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM


RGS12 L2>L4 p=2.09e−25
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


PDZD2 L2>L4 p=4.07e−25
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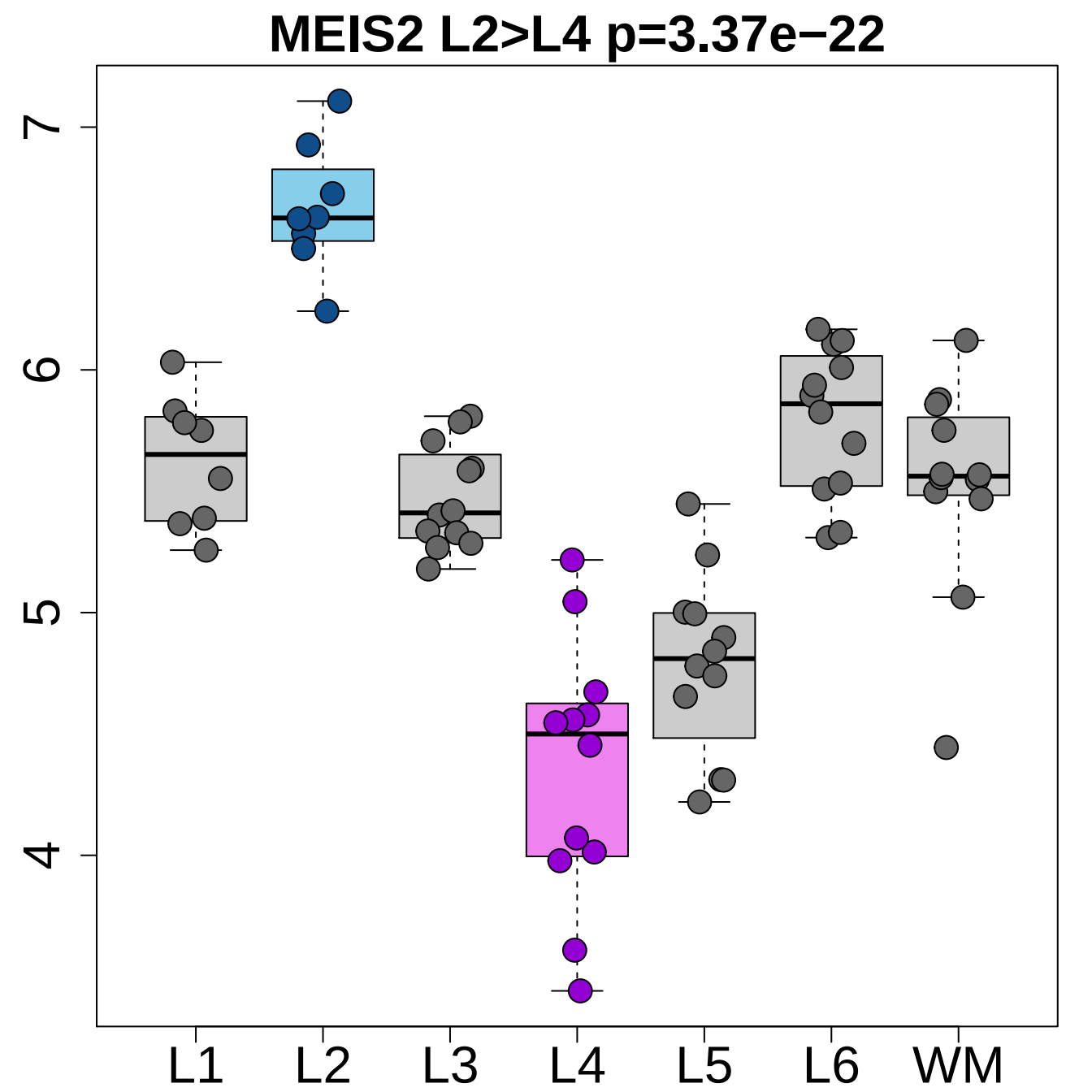
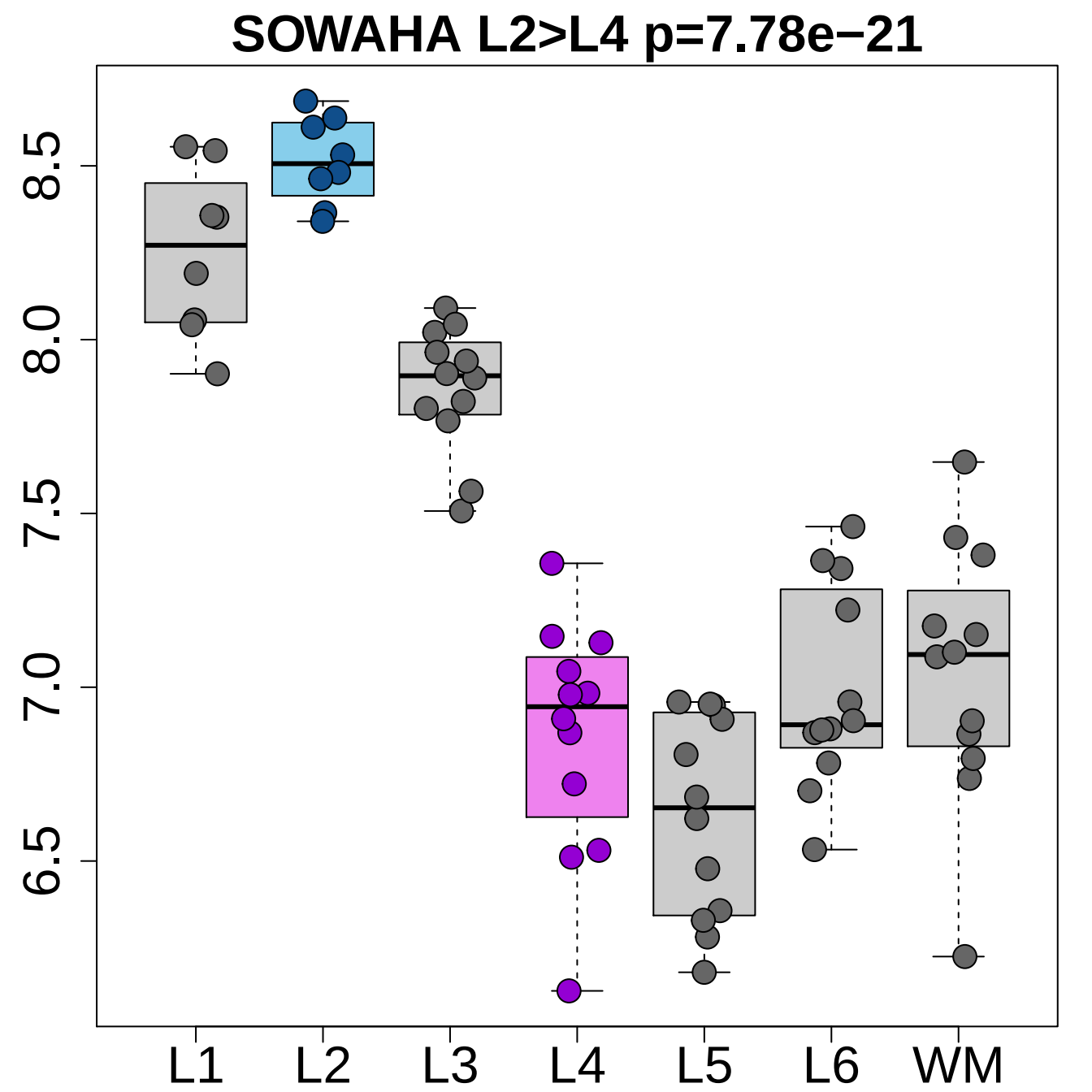
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


MEIS2 L2>L4 p=3.37e−22
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


SOWAHA L2>L4 p=7.78e−21
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7.5
7.0
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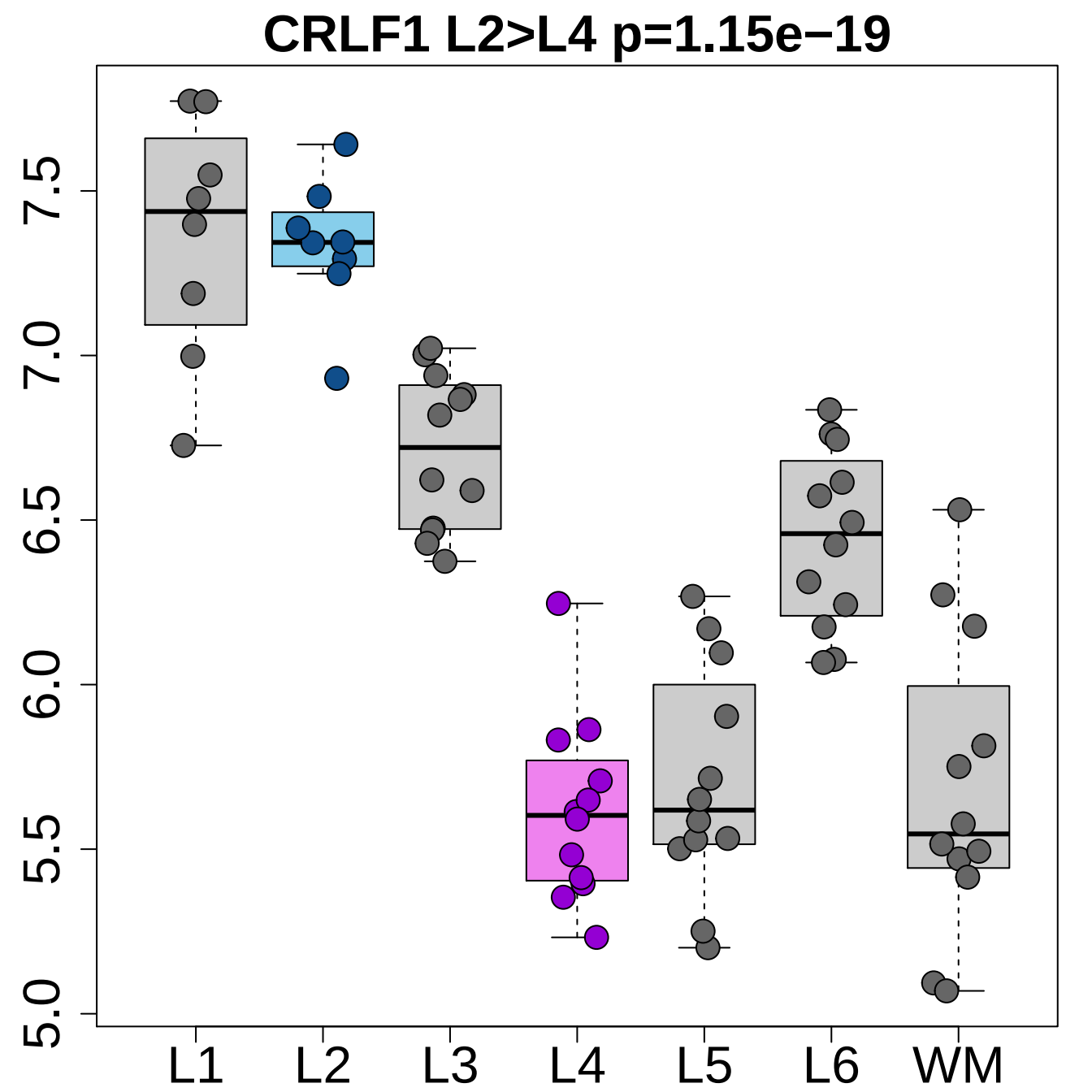
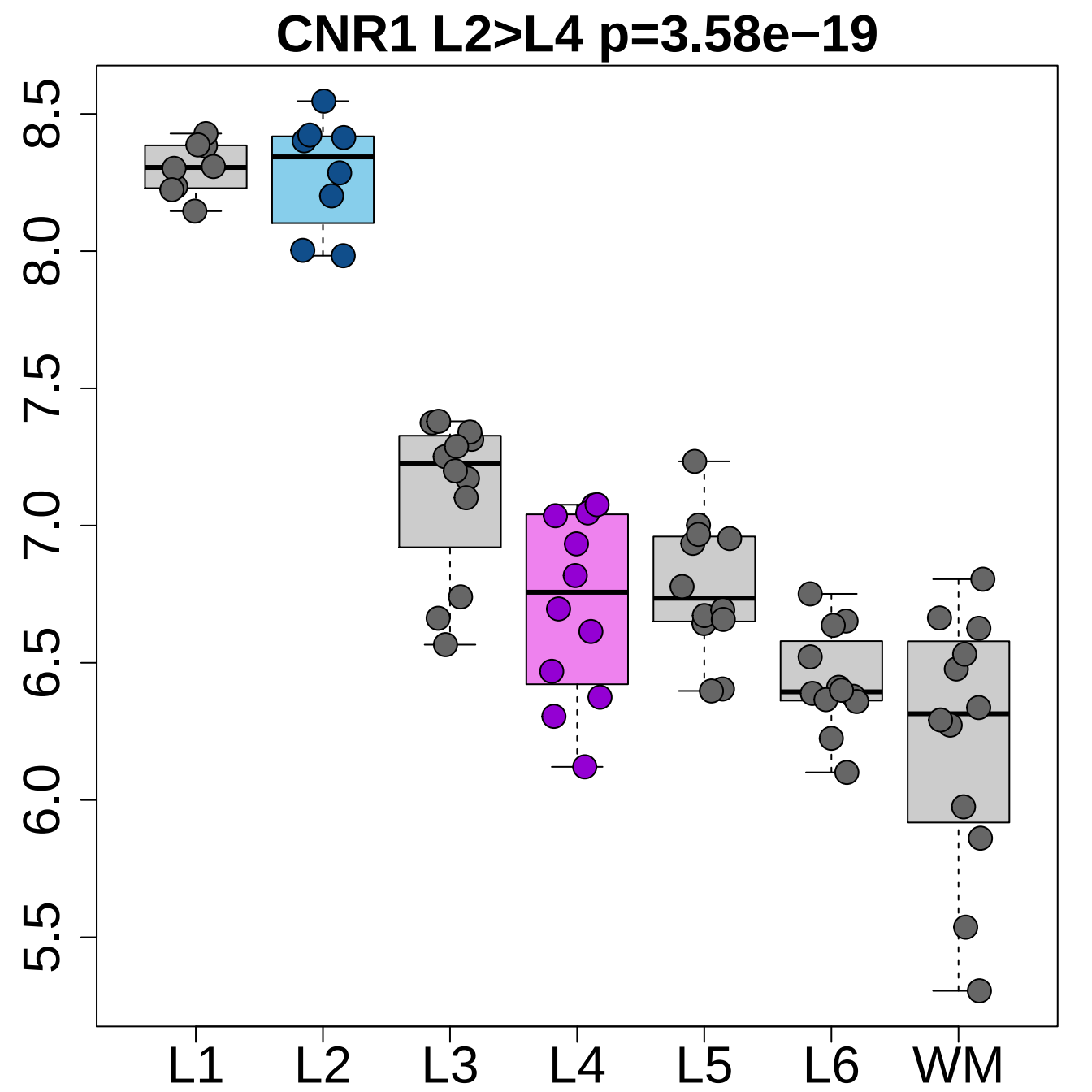
L1
L2
L3
L4
L5
L6
WM


CRLF1 L2>L4 p=1.15e−19
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


CNR1 L2>L4 p=3.58e−19
8.5
8.0
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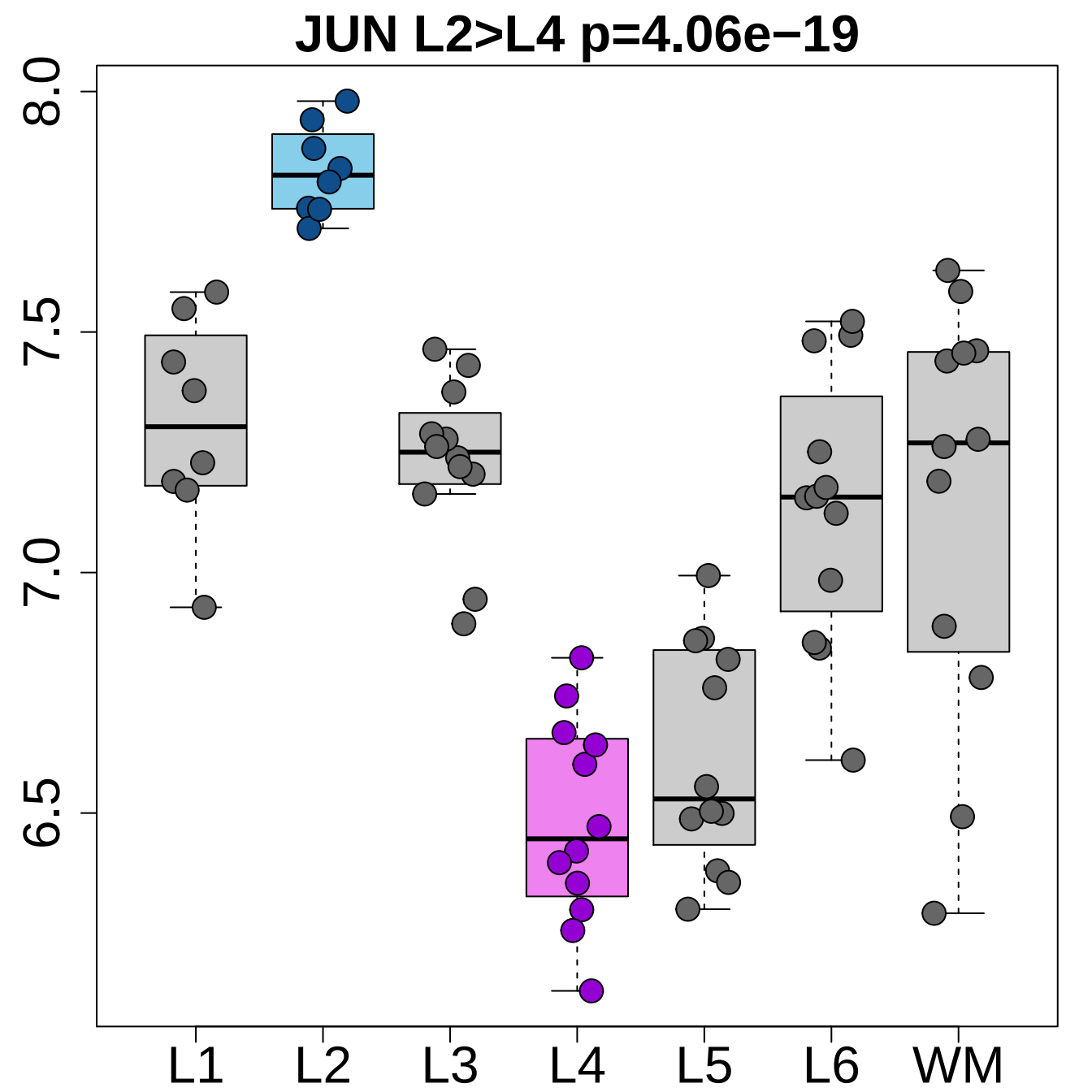
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


JUN L2>L4 p=4.06e−19
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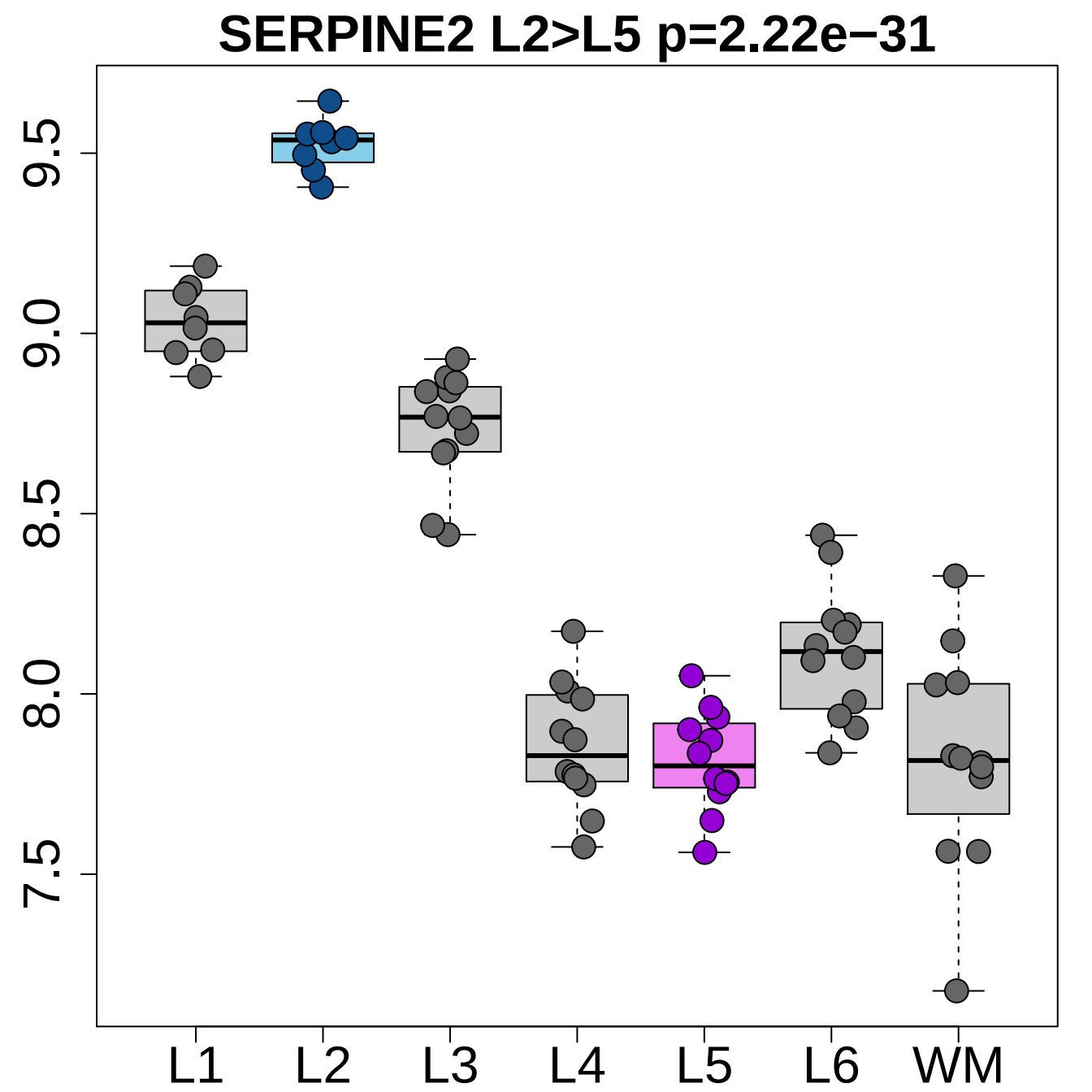
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L2>L5 p=2.22e−31
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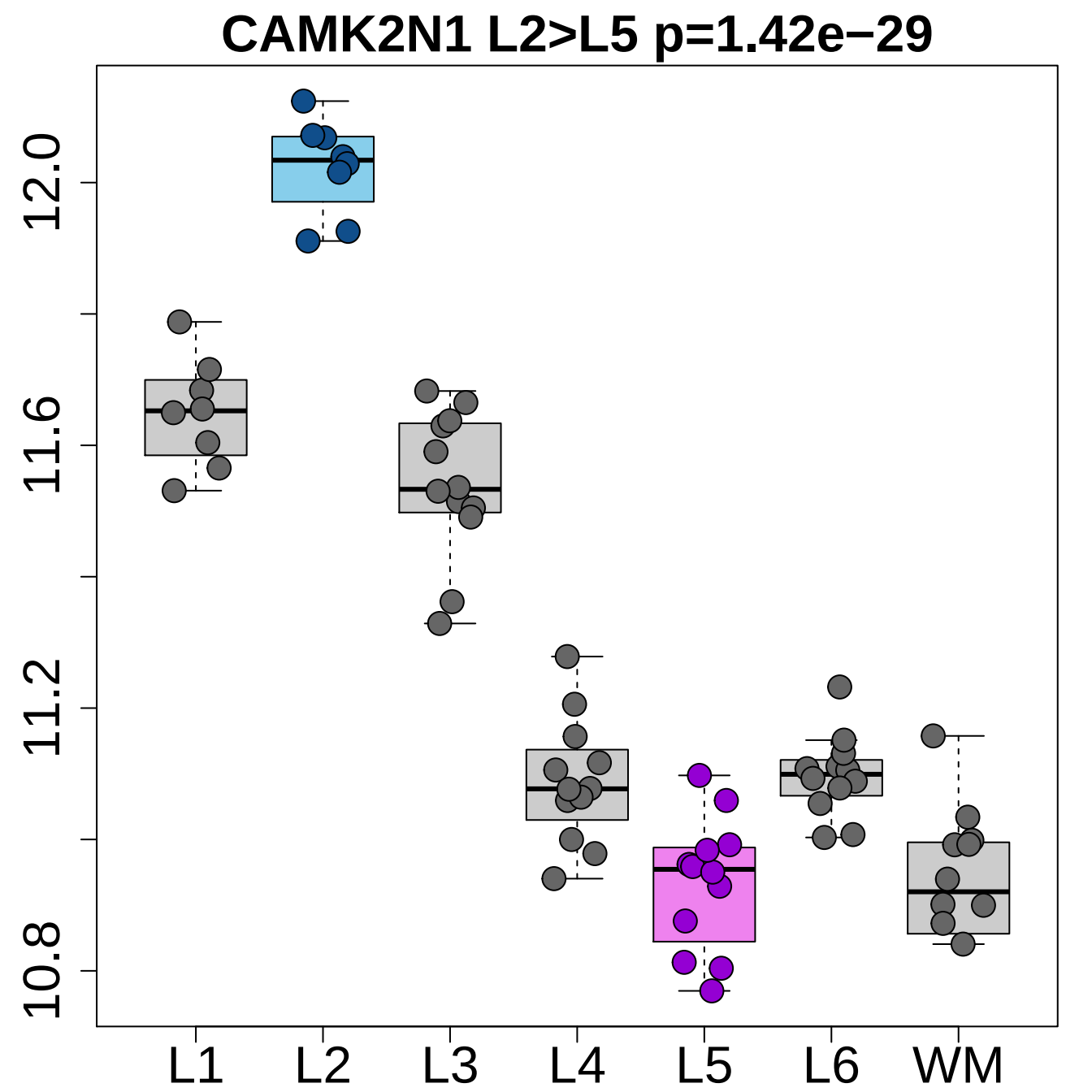
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


CAMK2N1 L2>L5 p=1.42e−29
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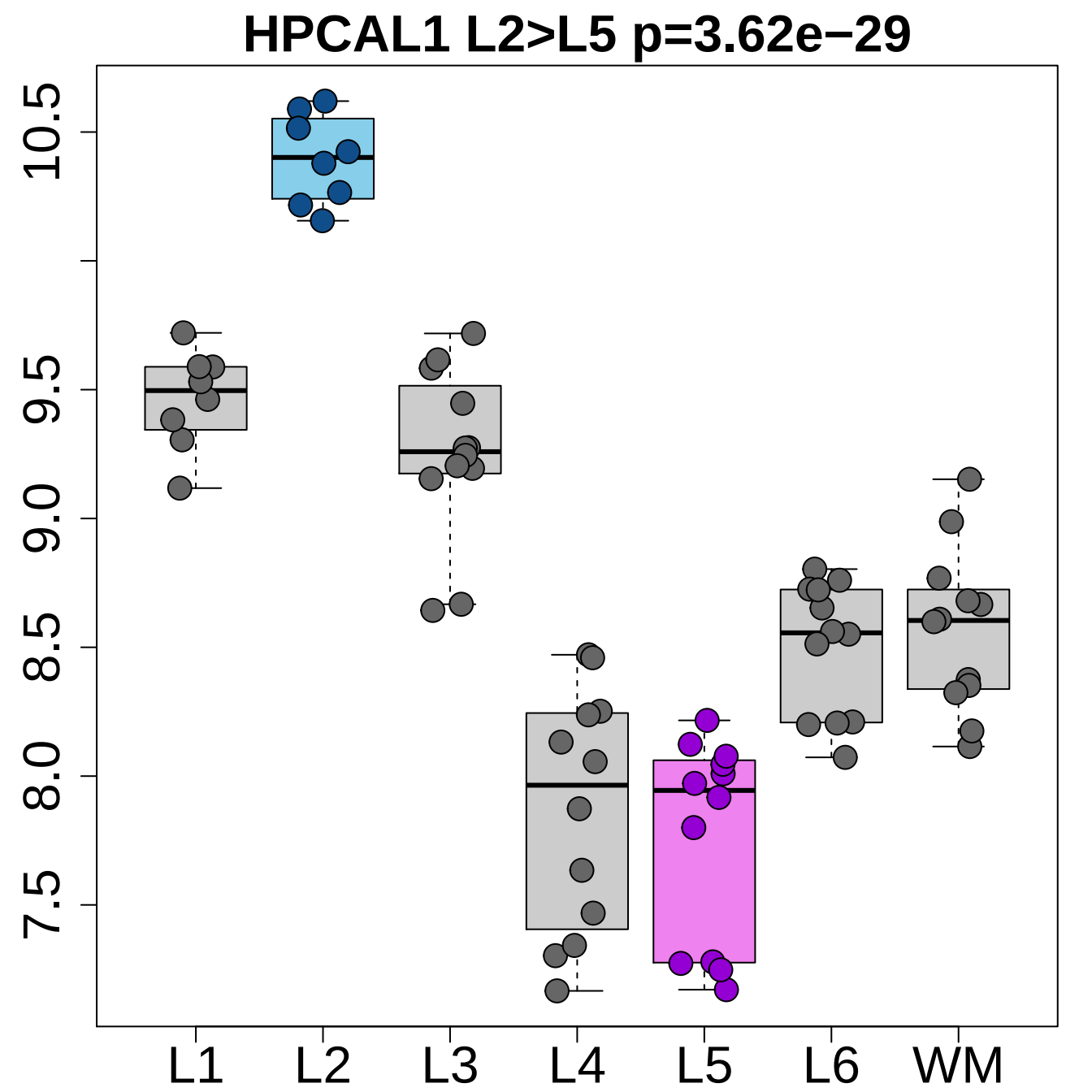
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM


HPCAL1 L2>L5 p=3.62e−29
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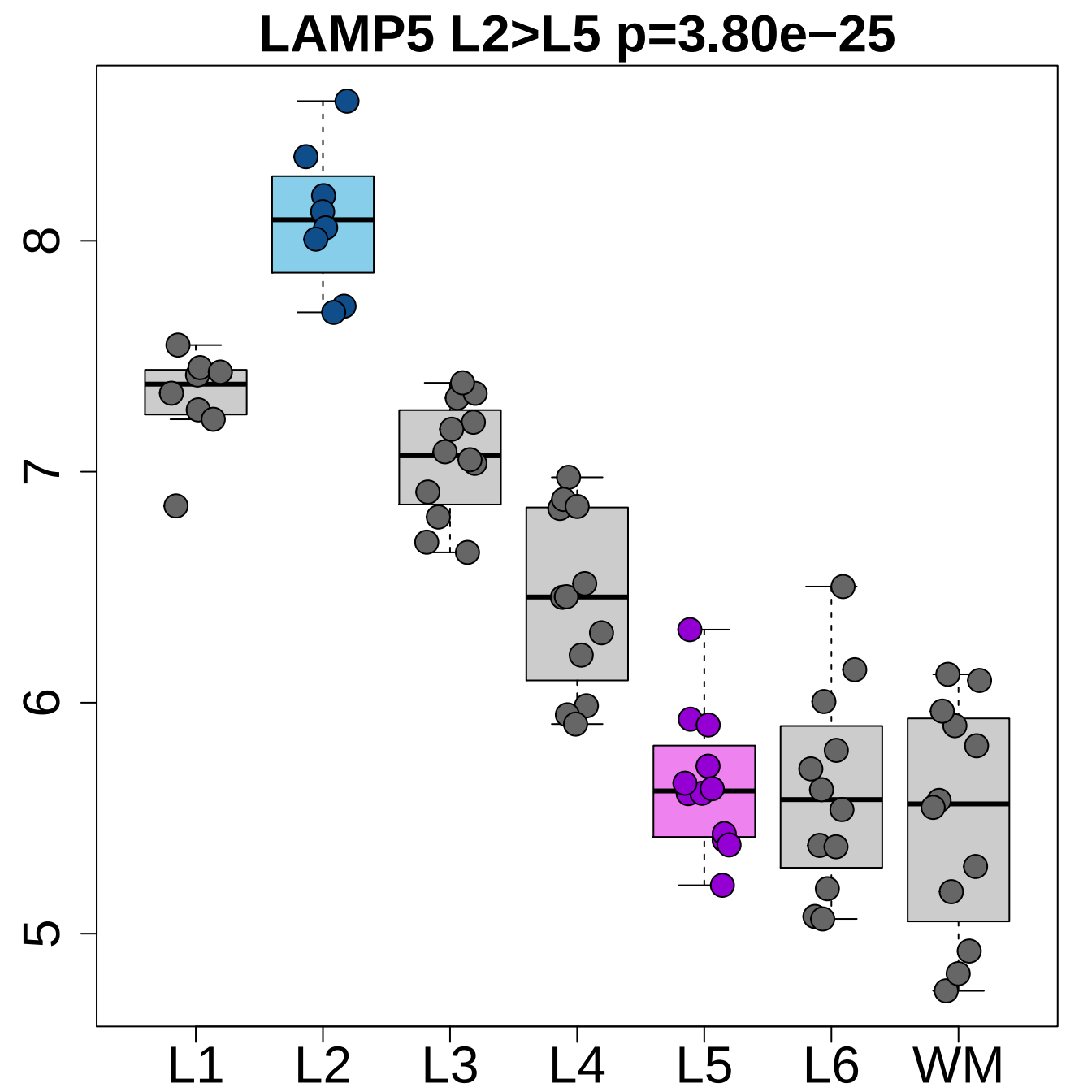
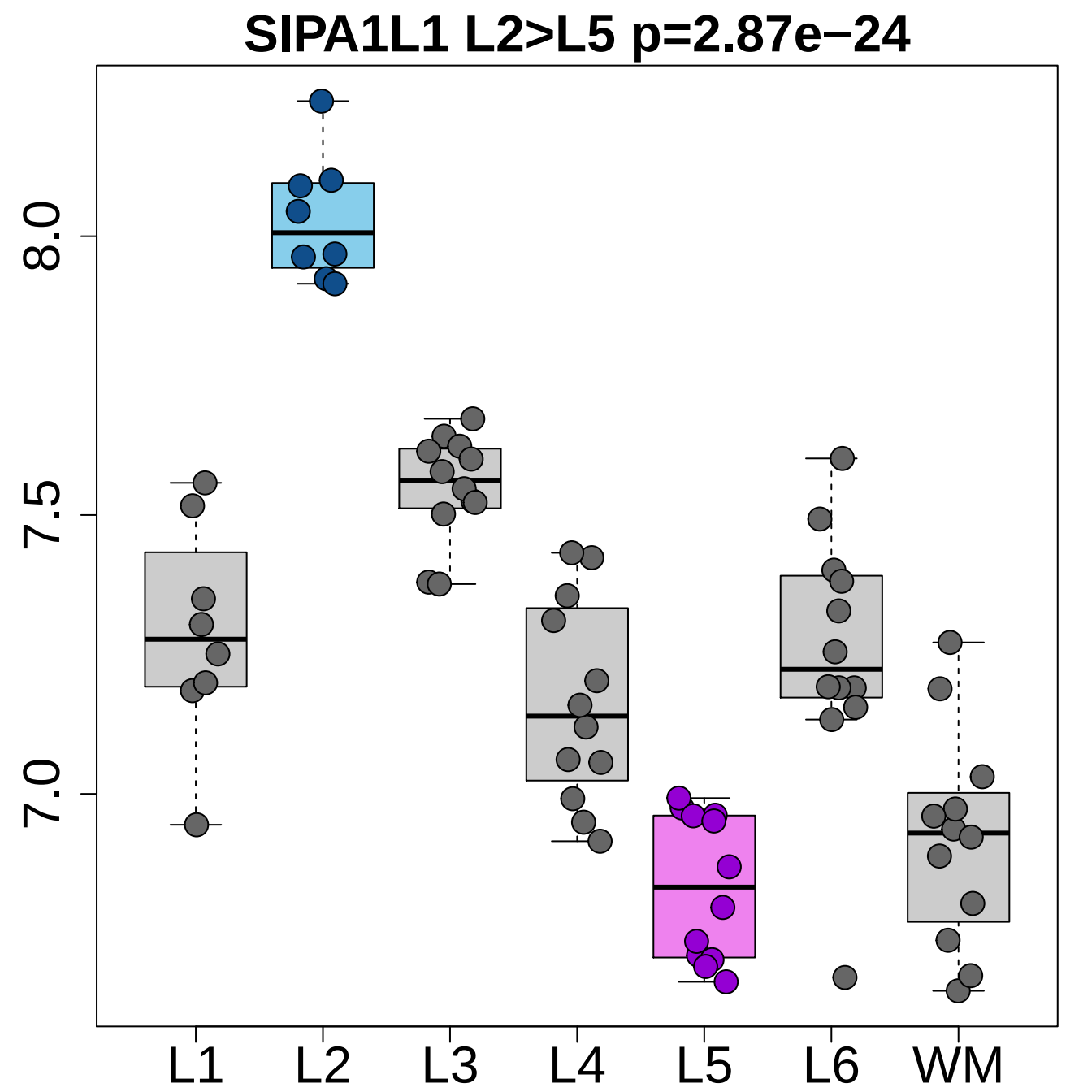
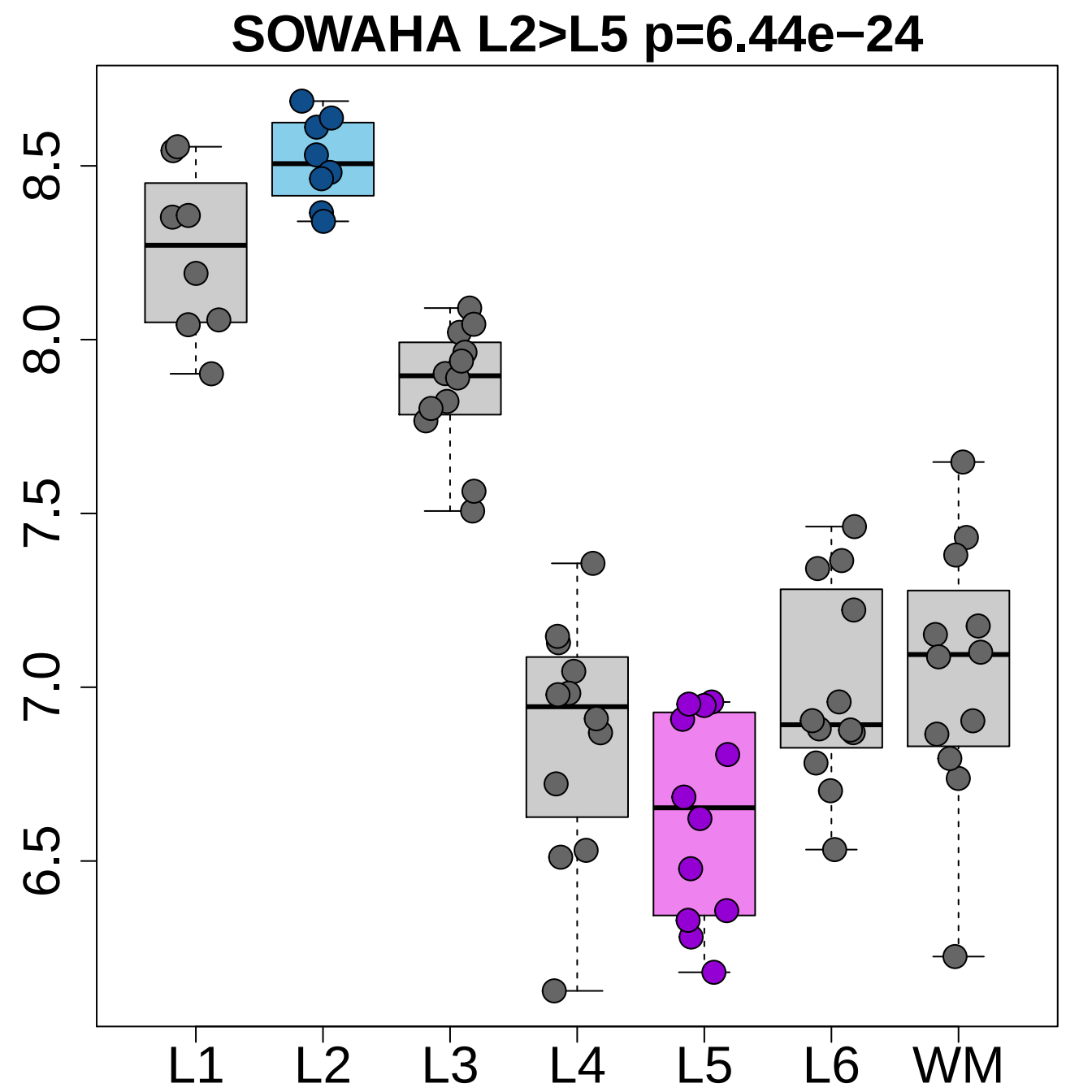
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


LAMP5 L2>L5 p=3.80e−25
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


SIPA1L1 L2>L5 p=2.87e−24
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


SOWAHA L2>L5 p=6.44e−24
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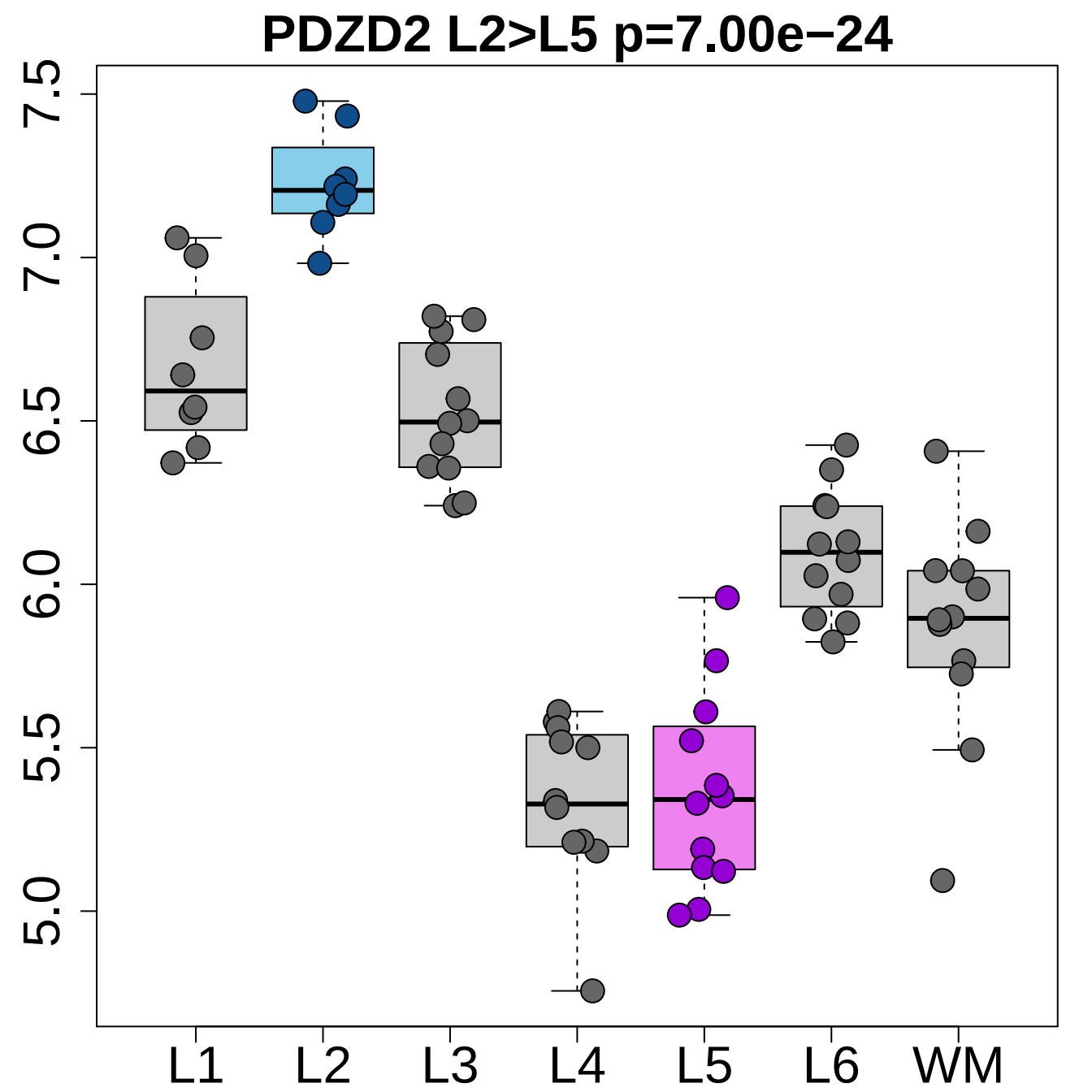
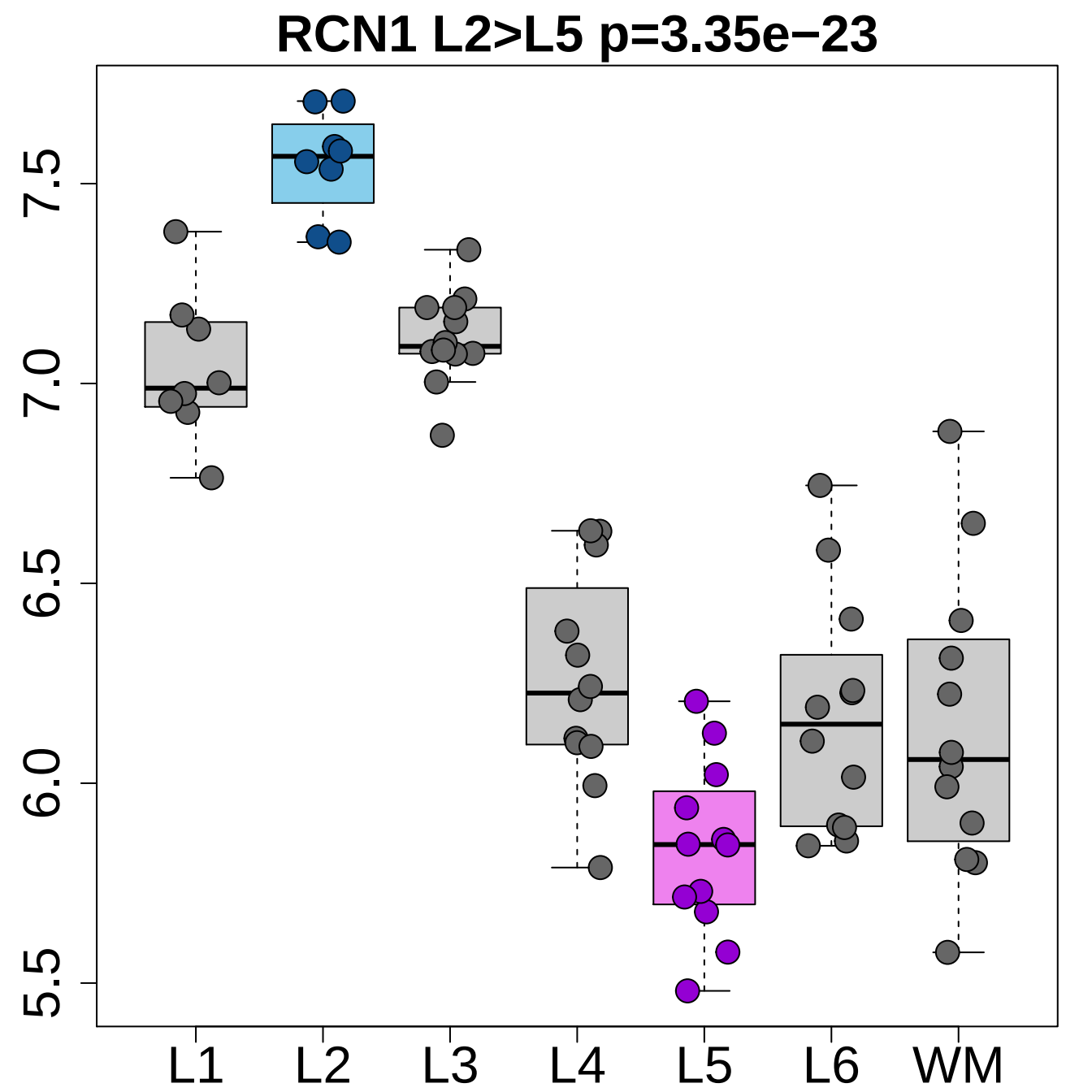
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


PDZD2 L2>L5 p=7.00e−24
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


RCN1 L2>L5 p=3.35e−23
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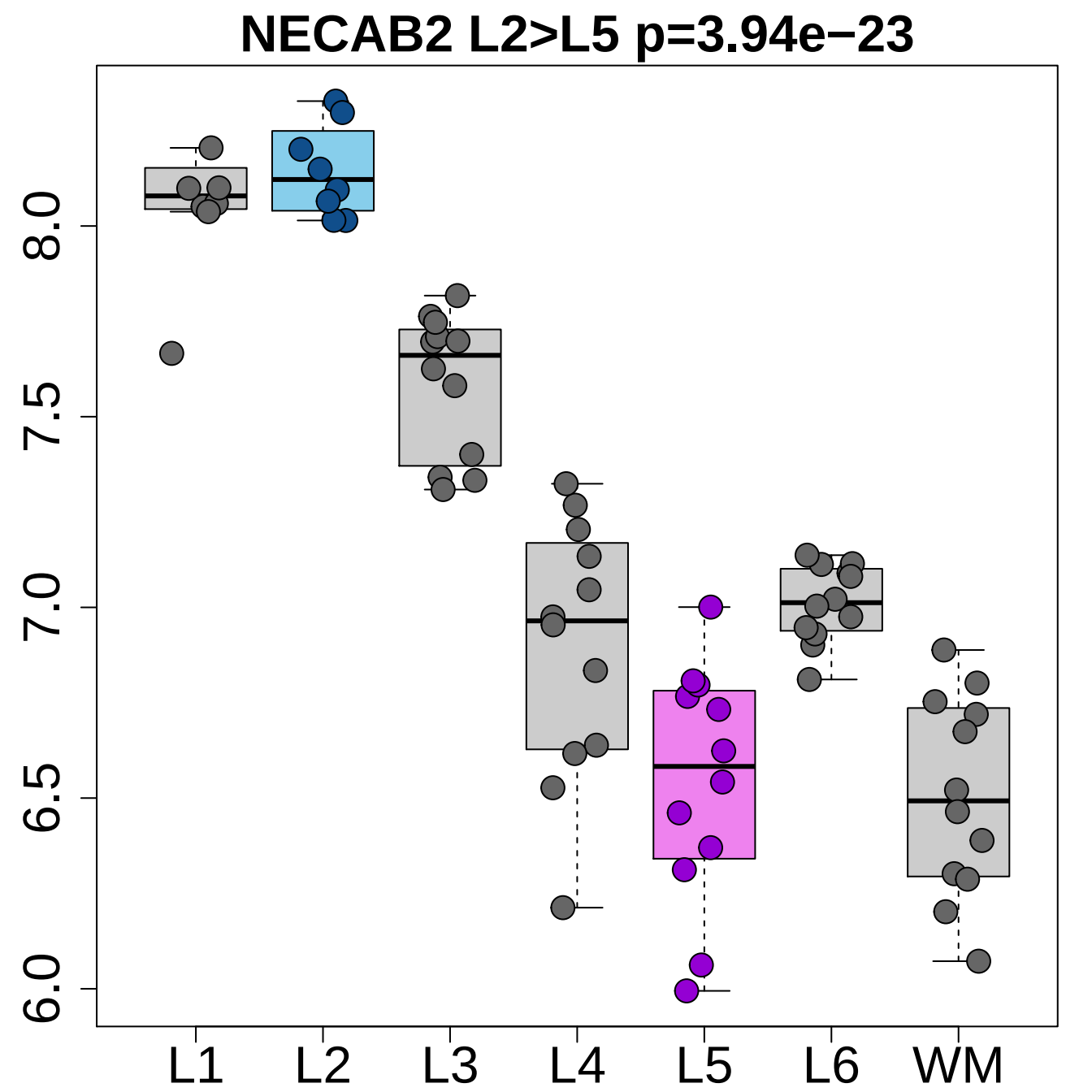
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


NECAB2 L2>L5 p=3.94e−23
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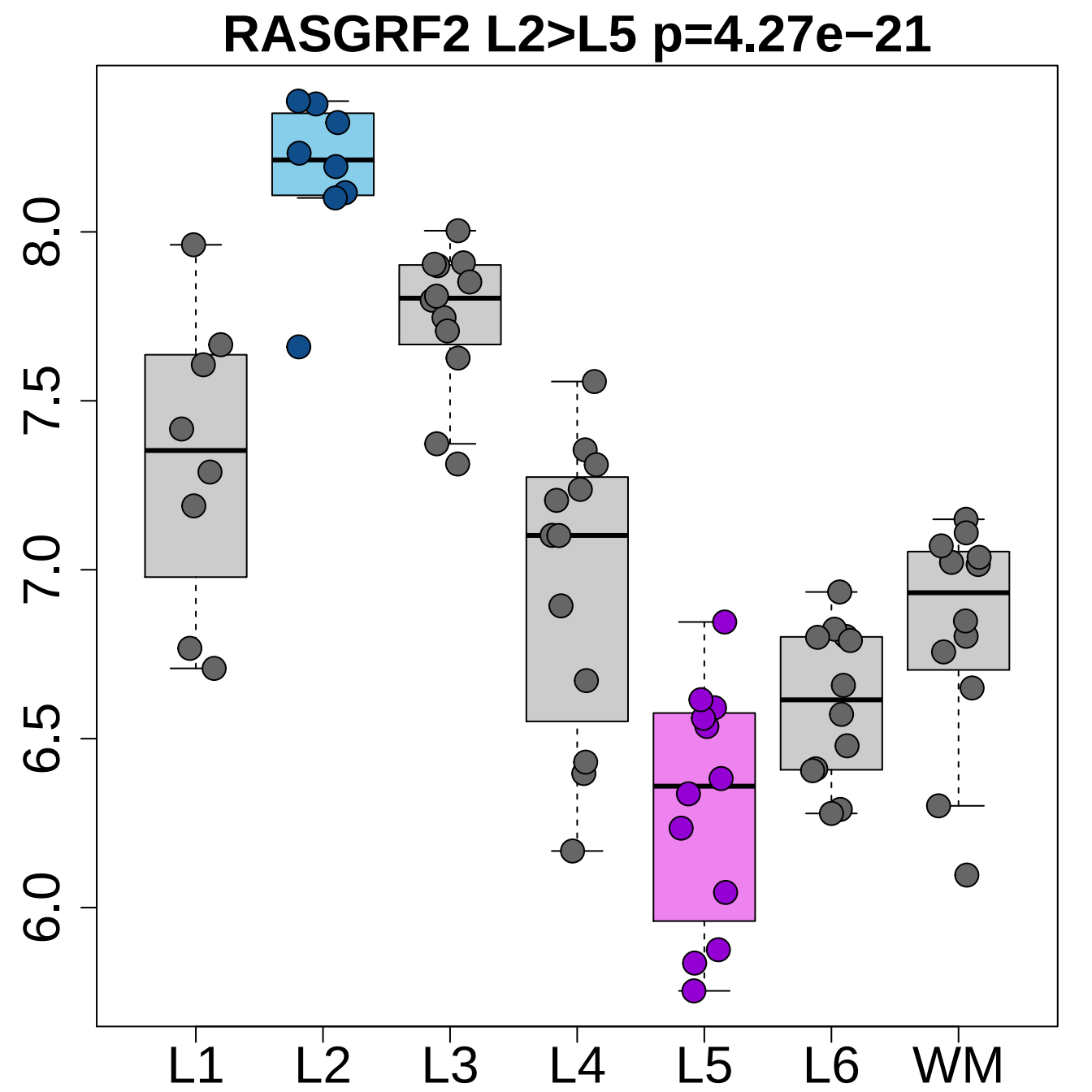
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


RASGRF2 L2>L5 p=4.27e−21
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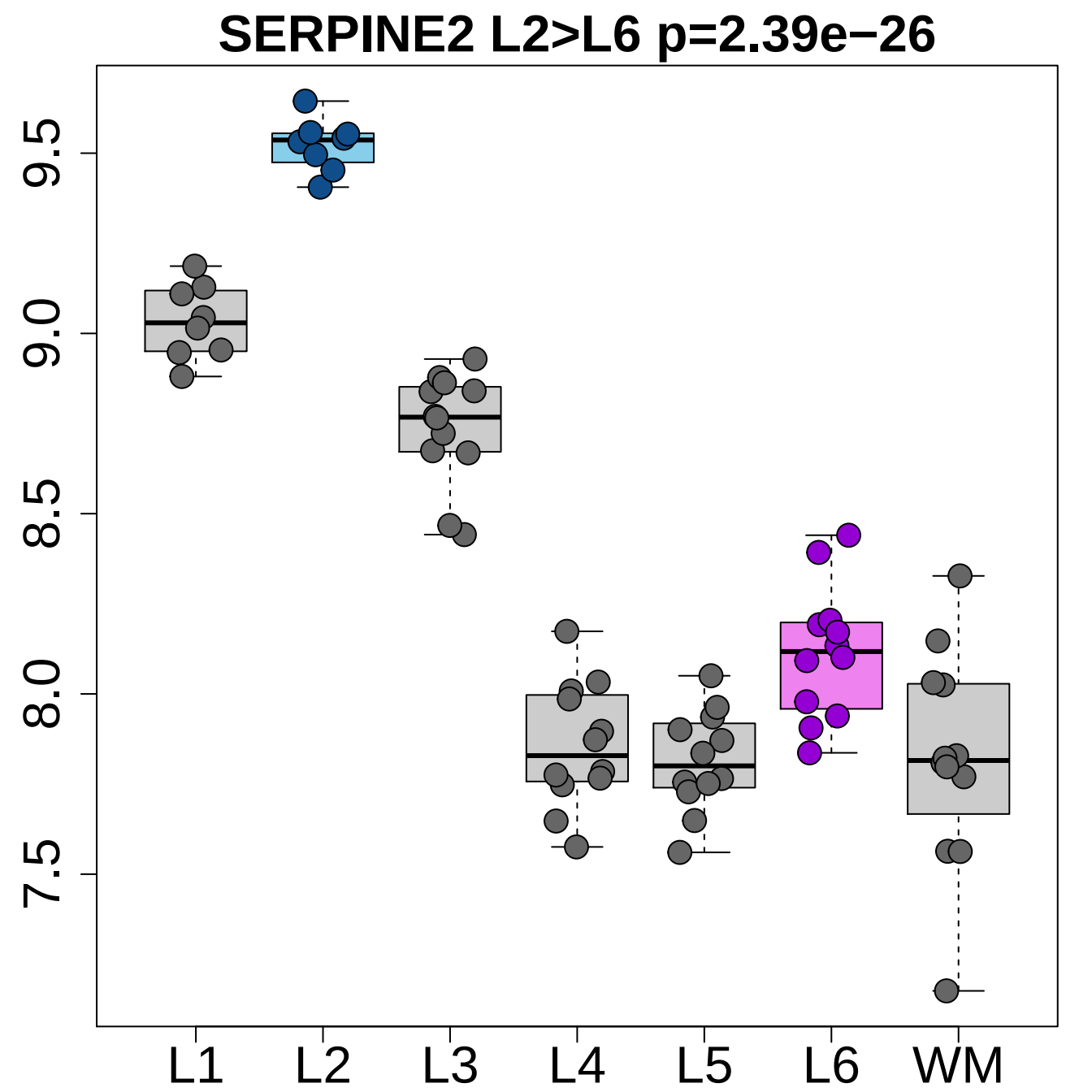
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L2>L6 p=2.39e−26
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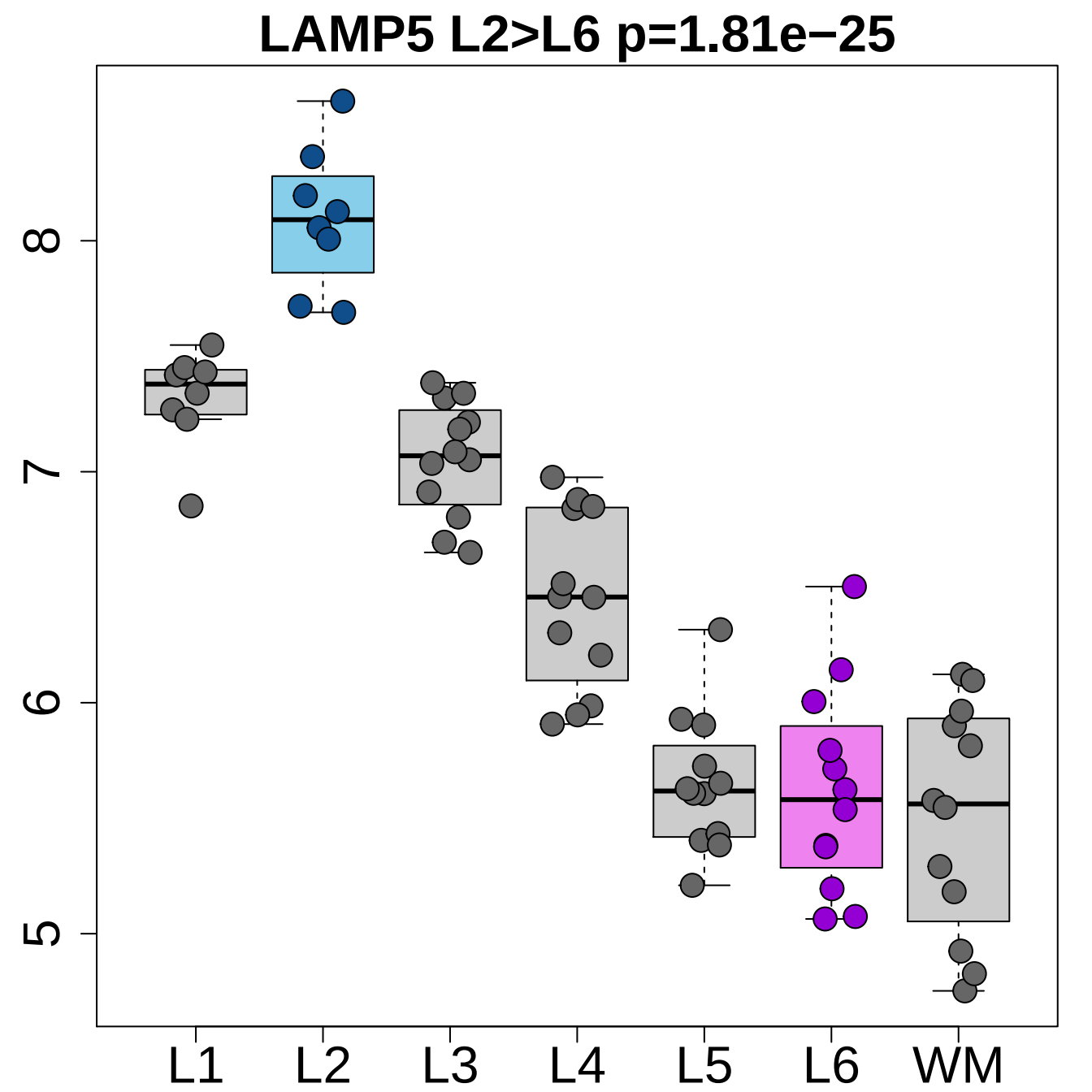
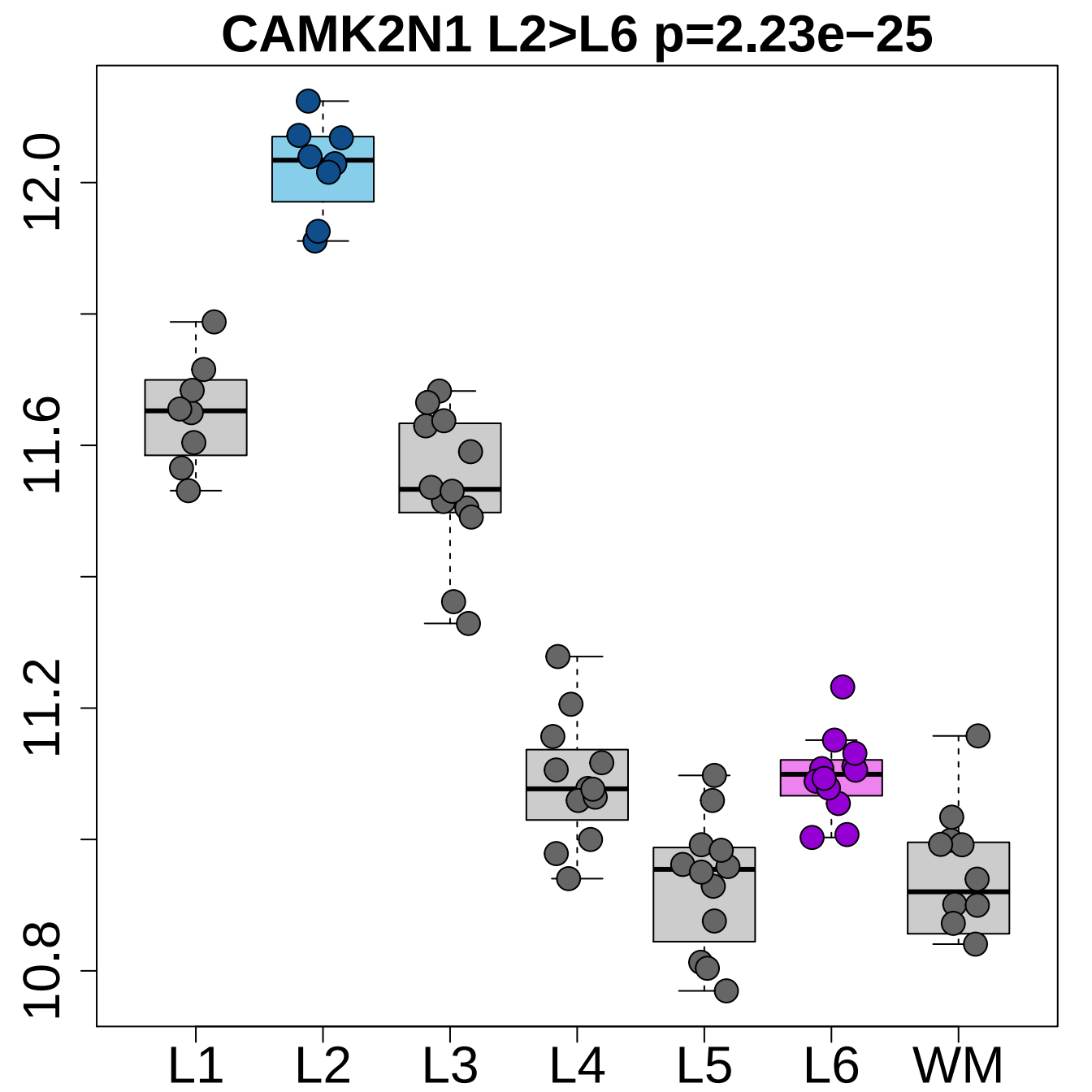
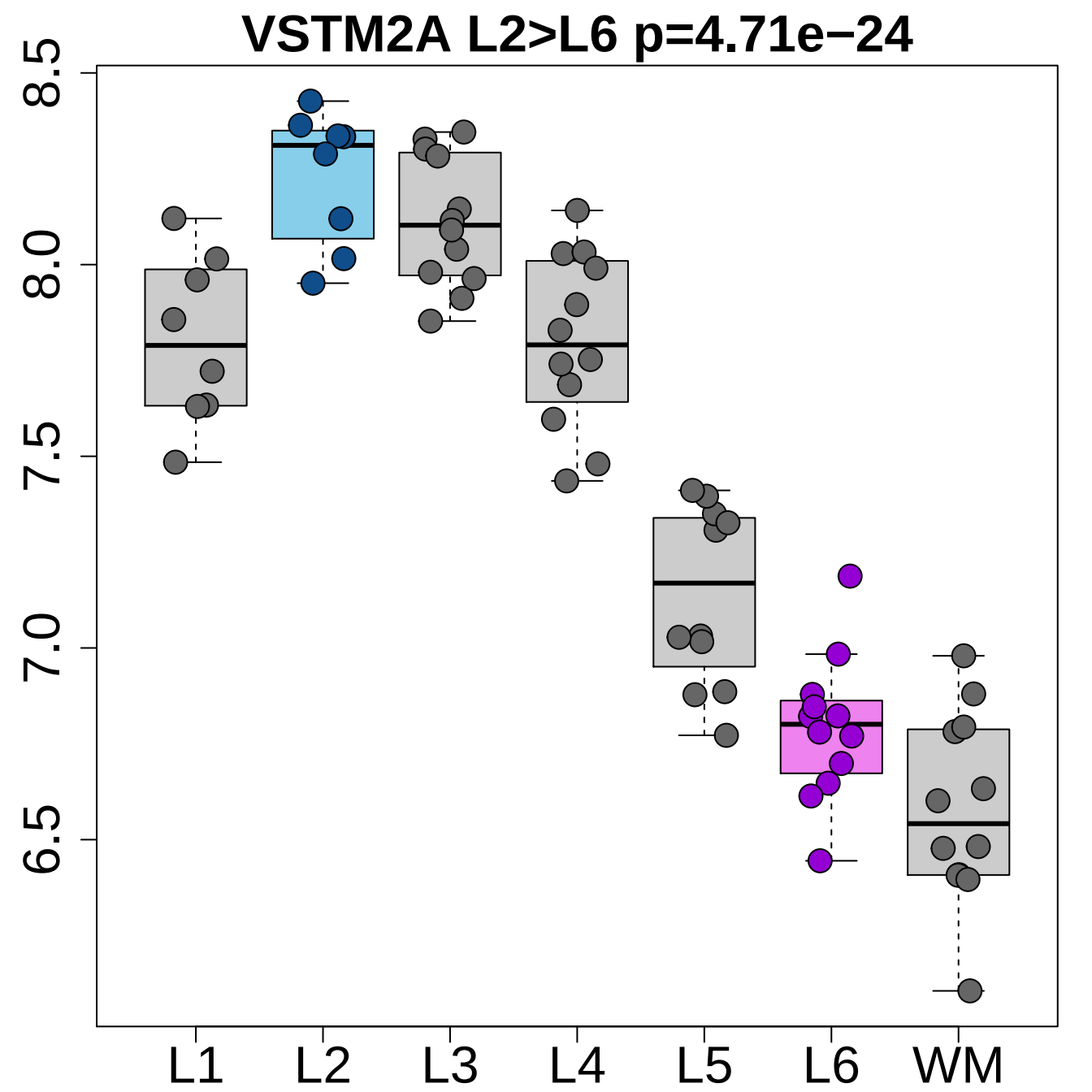
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


LAMP5 L2>L6 p=1.81e−25
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


CAMK2N1 L2>L6 p=2.23e−25
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM


VSTM2A L2>L6 p=4.71e−24
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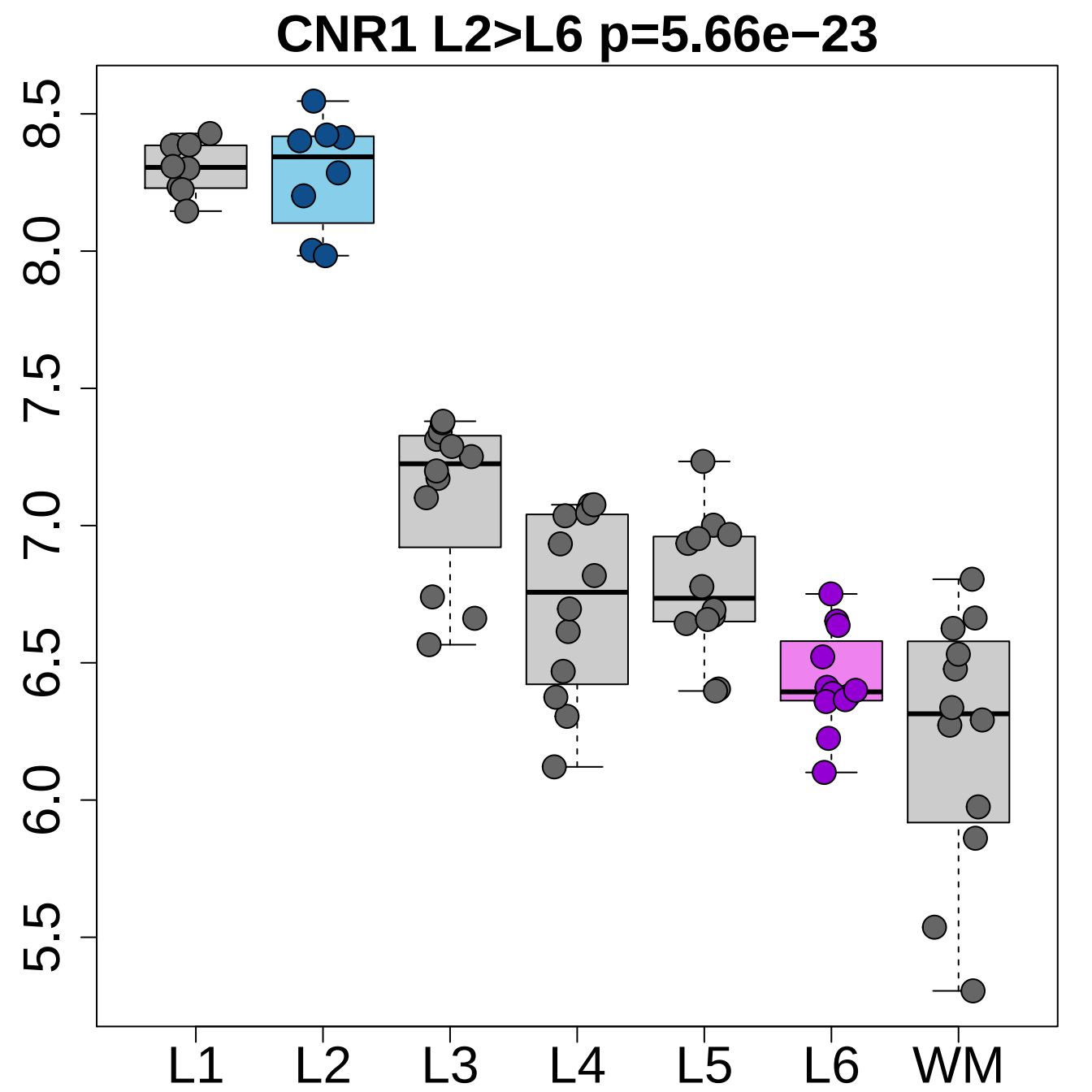
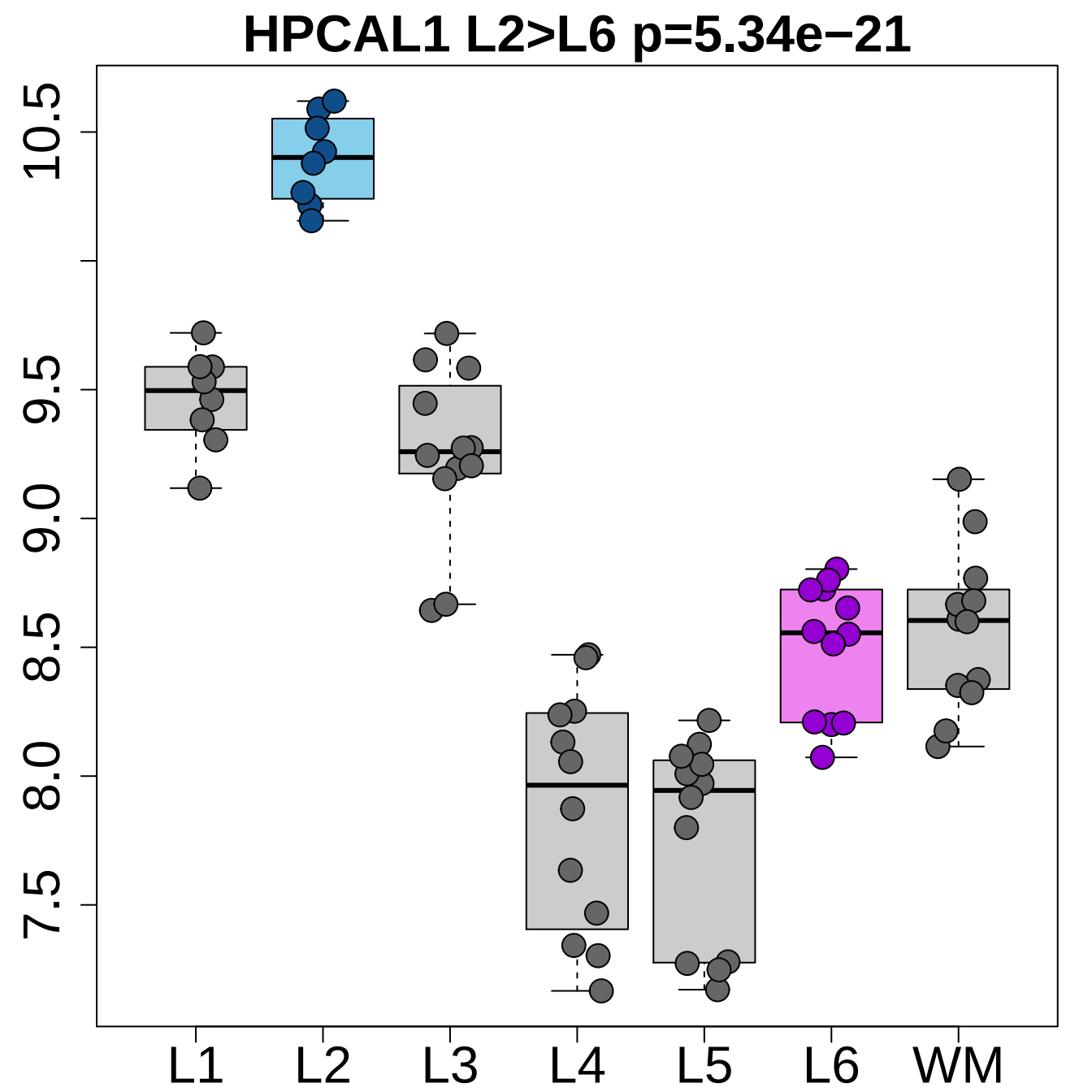
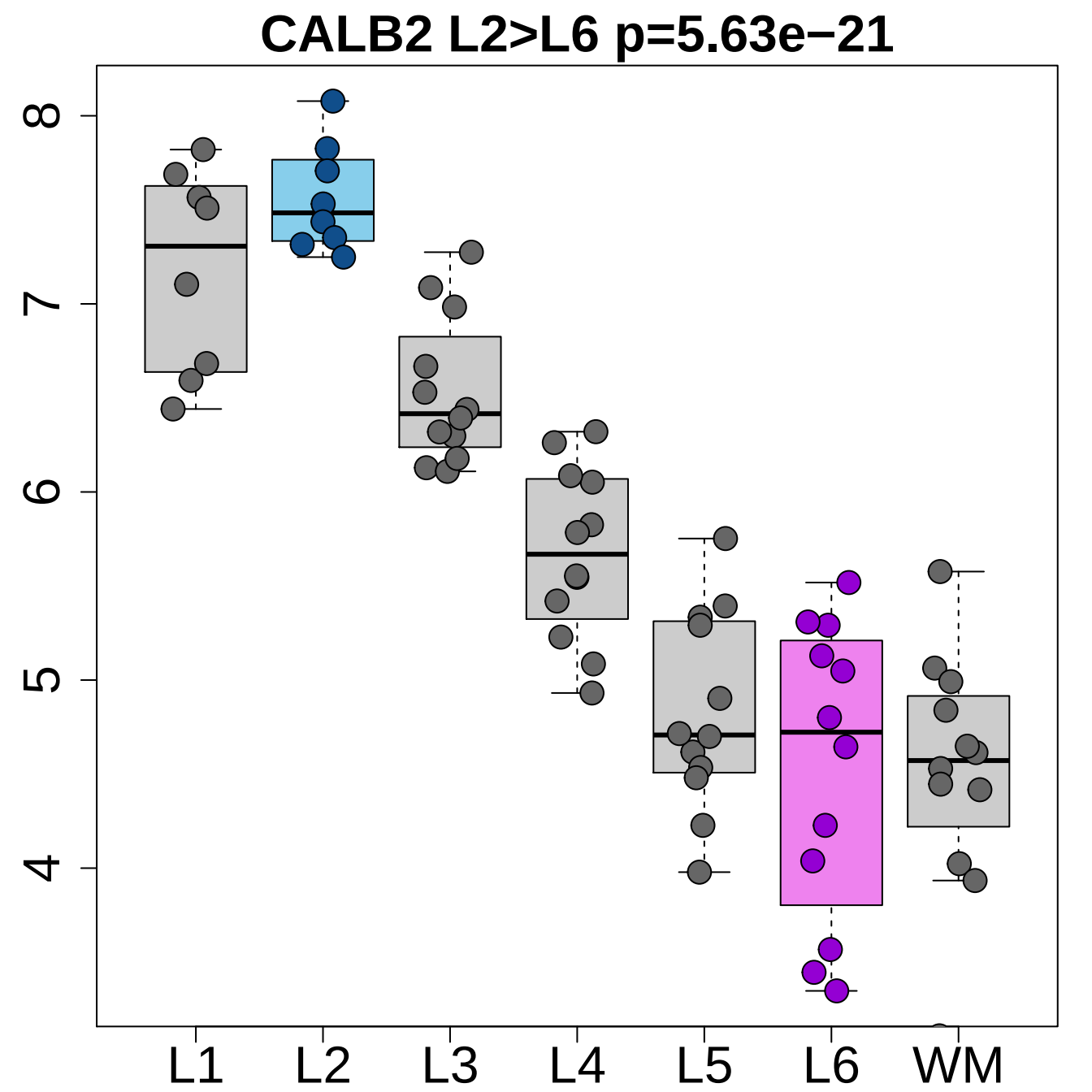
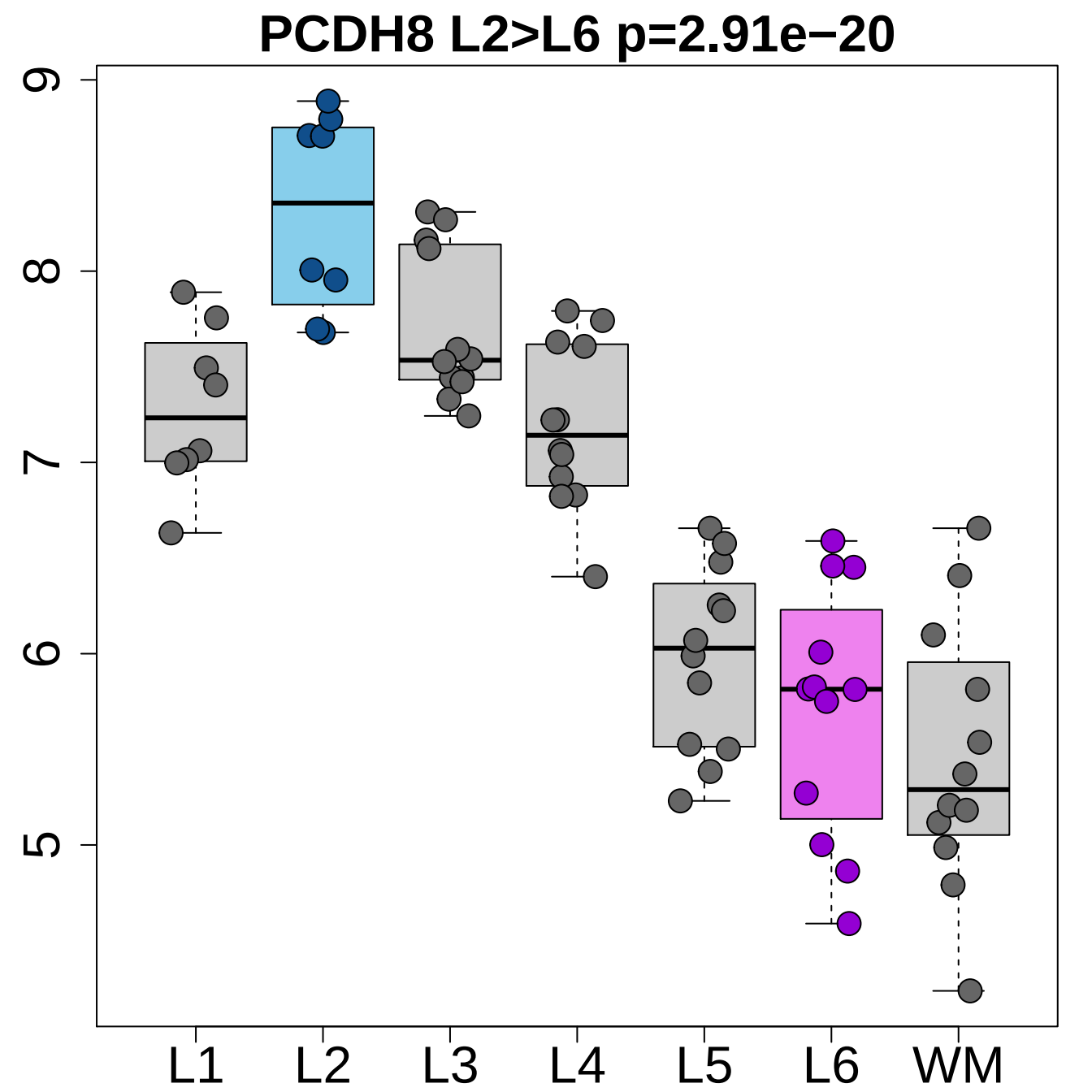
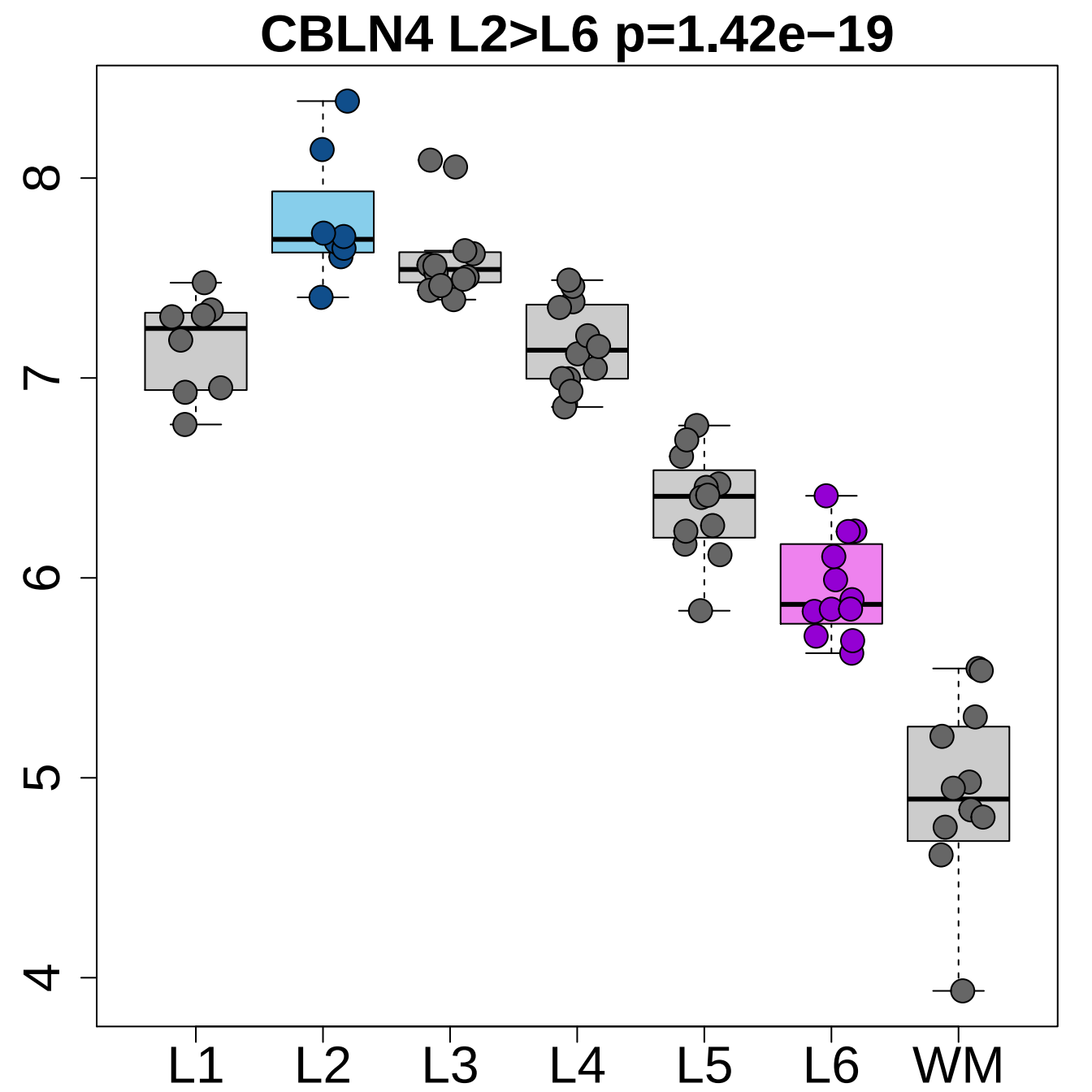
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

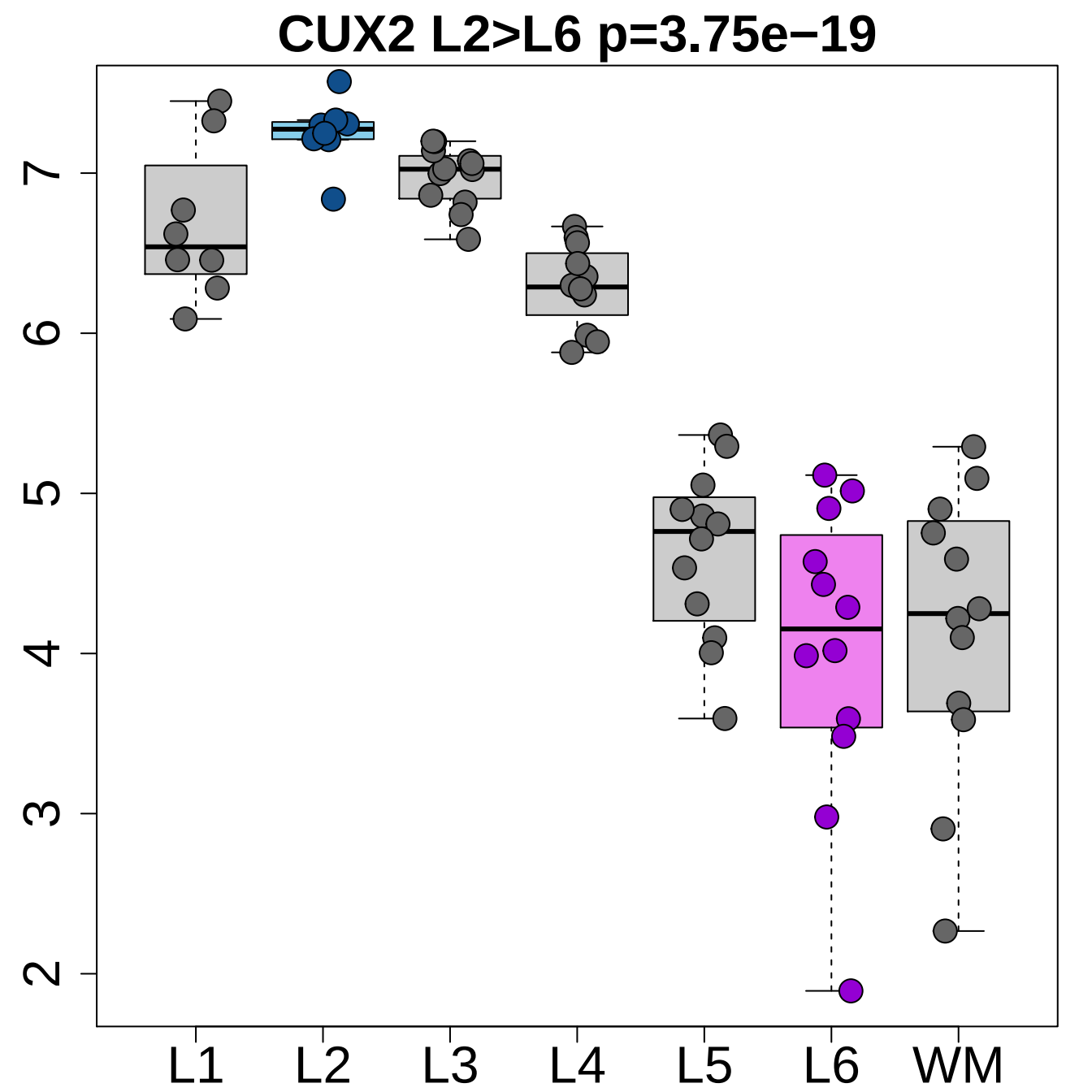

CNR1 L2>L6 p=5.66e−23
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


HPCAL1 L2>L6 p=5.34e−21
10.5
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


CALB2 L2>L6 p=5.63e−21
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


PCDH8 L2>L6 p=2.91e−20
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


CBLN4 L2>L6 p=1.42e−19
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


CUX2 L2>L6 p=3.75e−19
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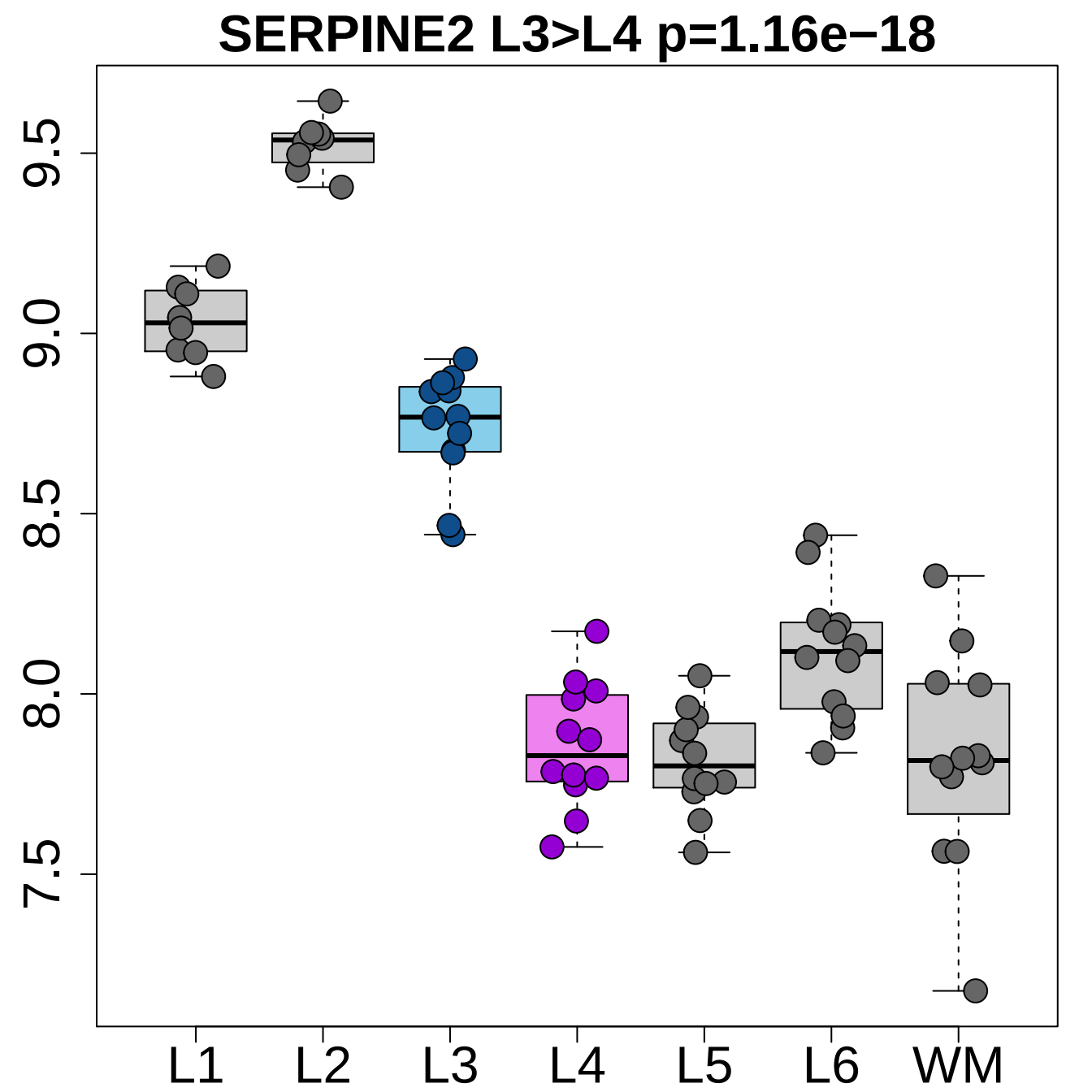
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L3>L4 p=1.16e−18
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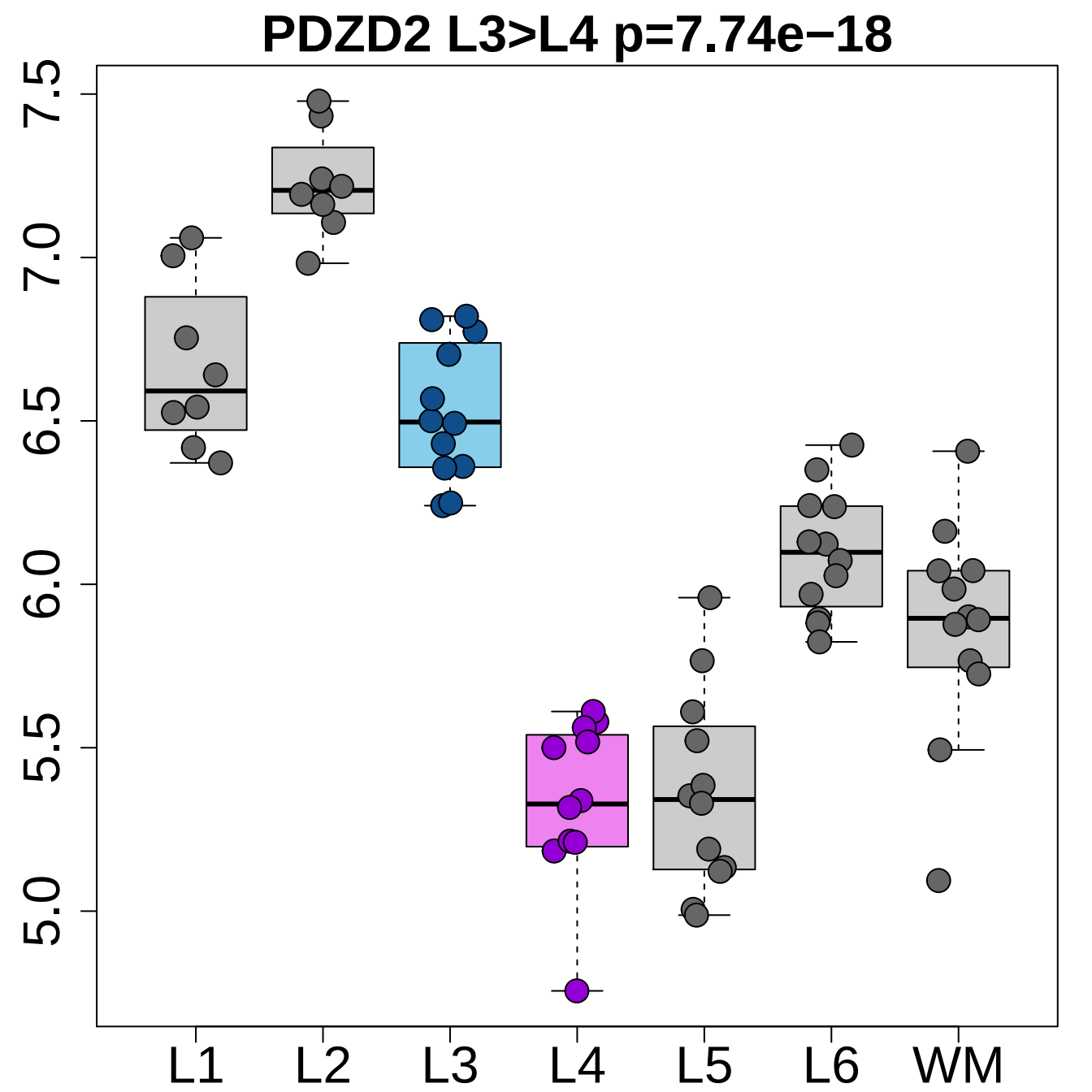
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


PDZD2 L3>L4 p=7.74e−18
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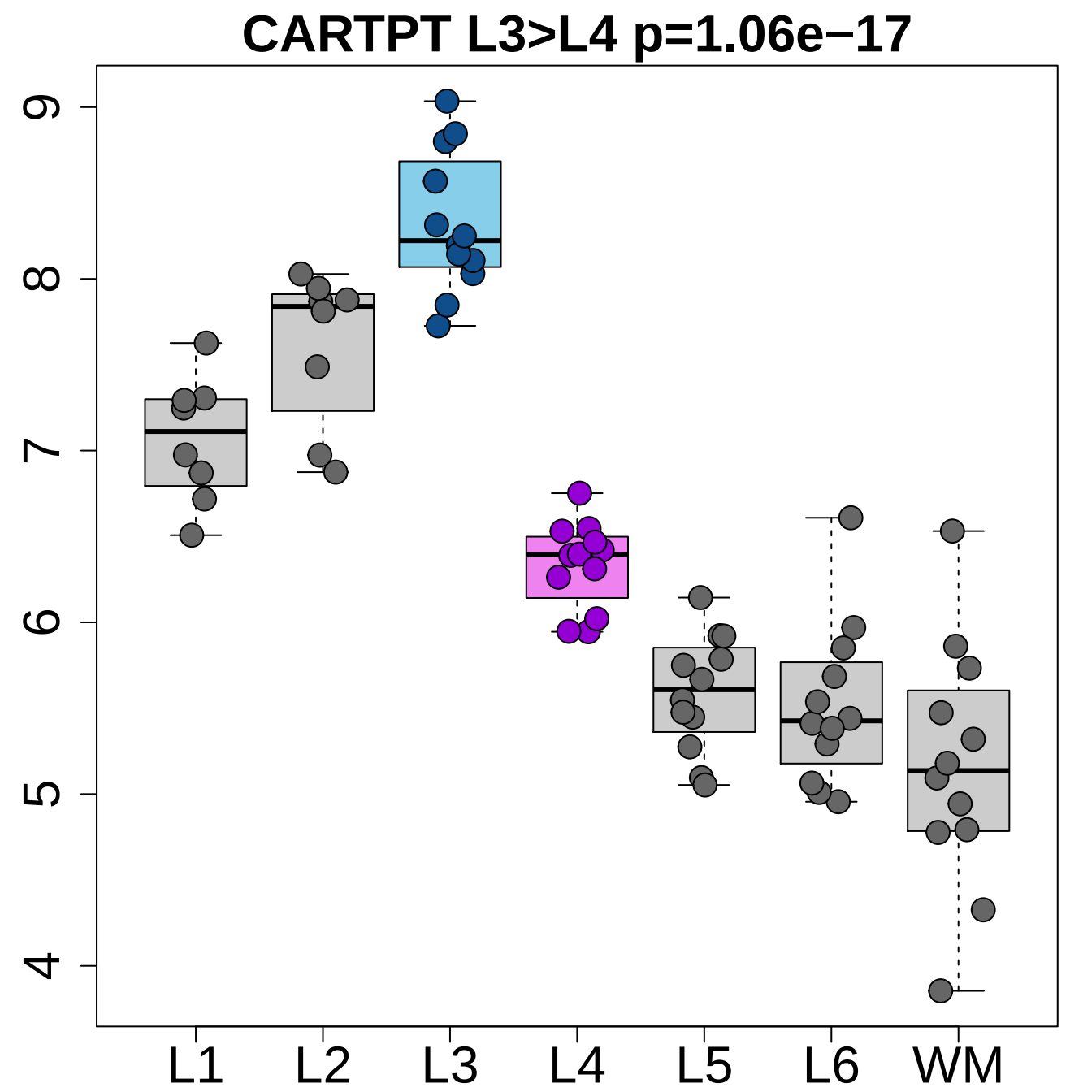
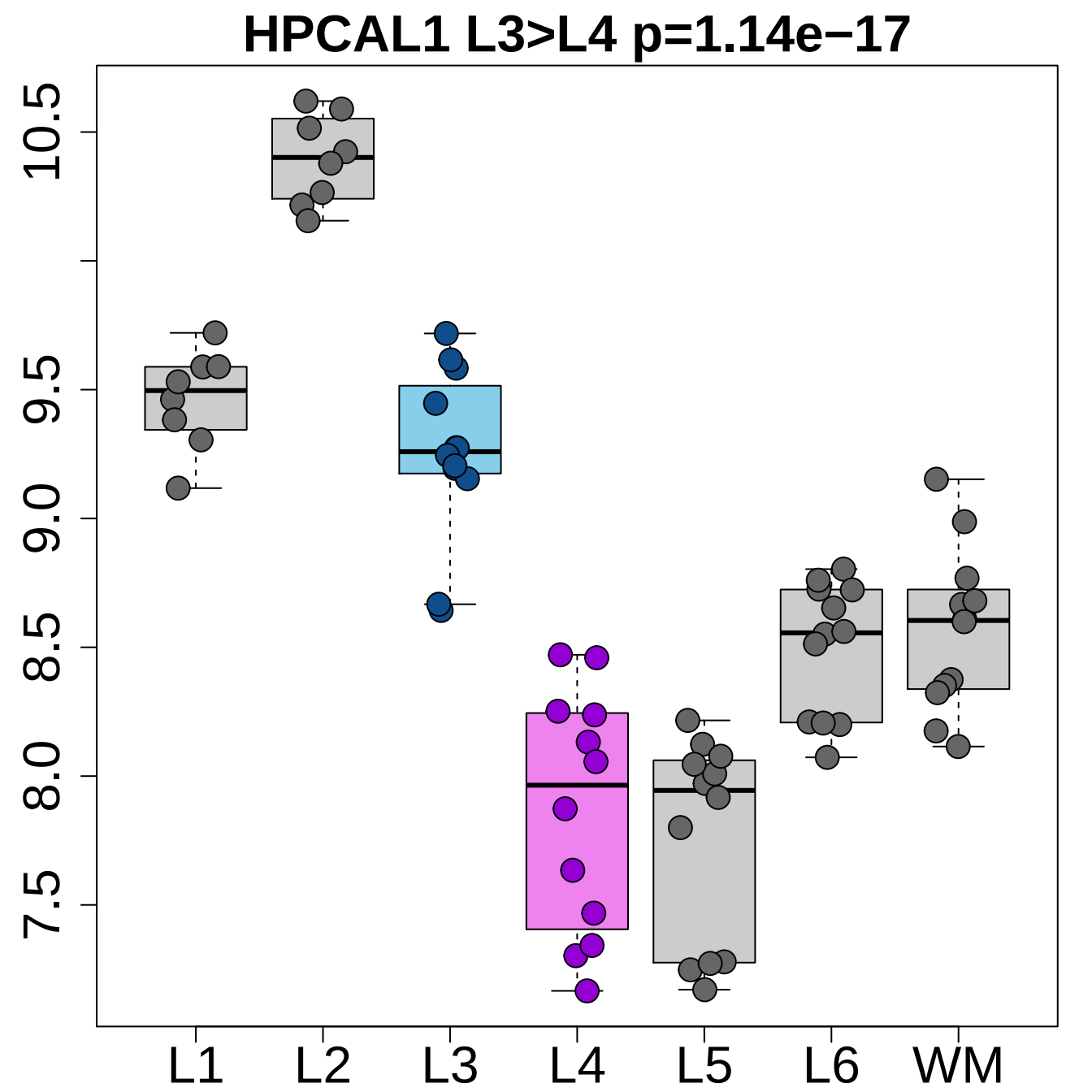
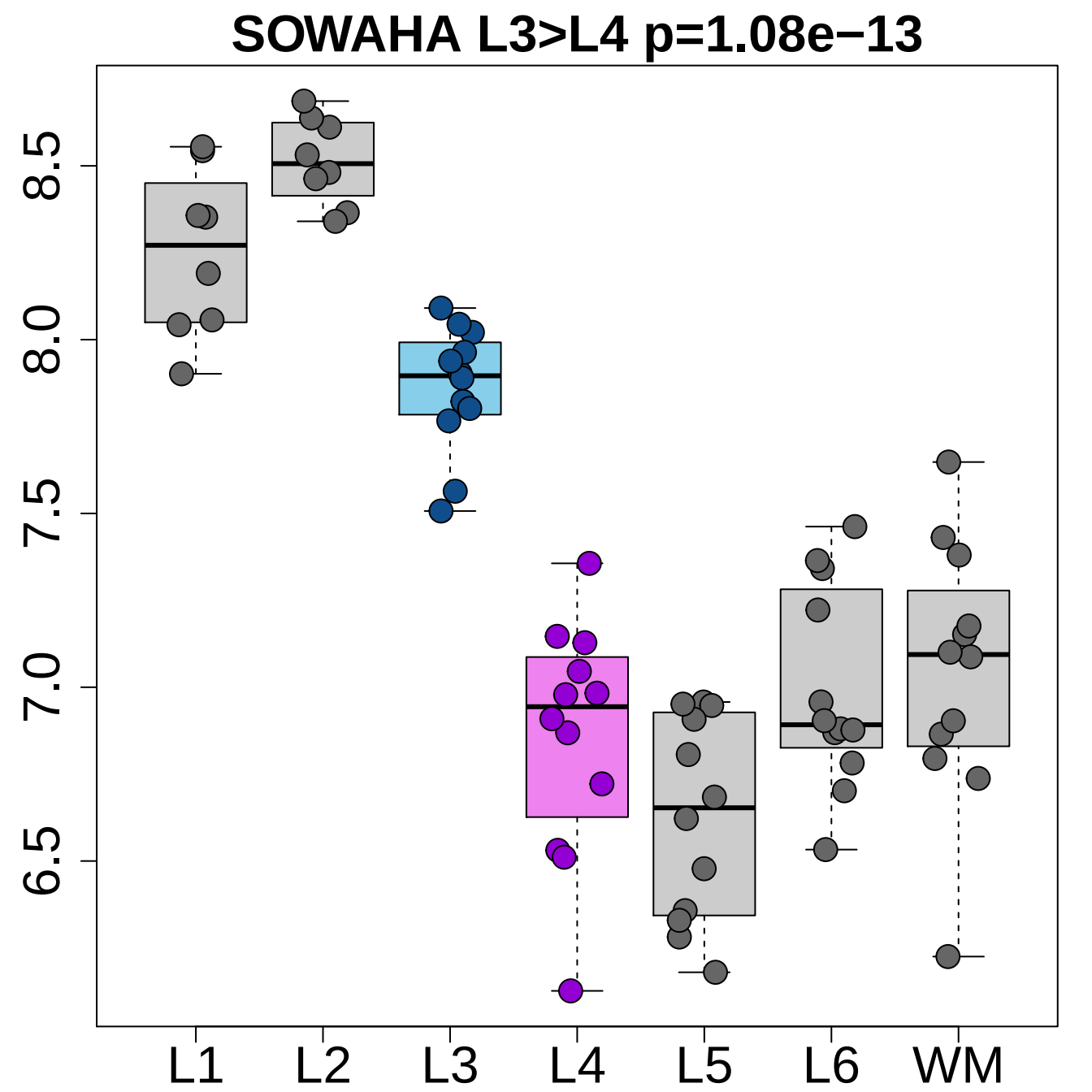
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


CARTPT L3>L4 p=1.06e−17
9
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


HPCAL1 L3>L4 p=1.14e−17
10.5
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


SOWAHA L3>L4 p=1.08e−13
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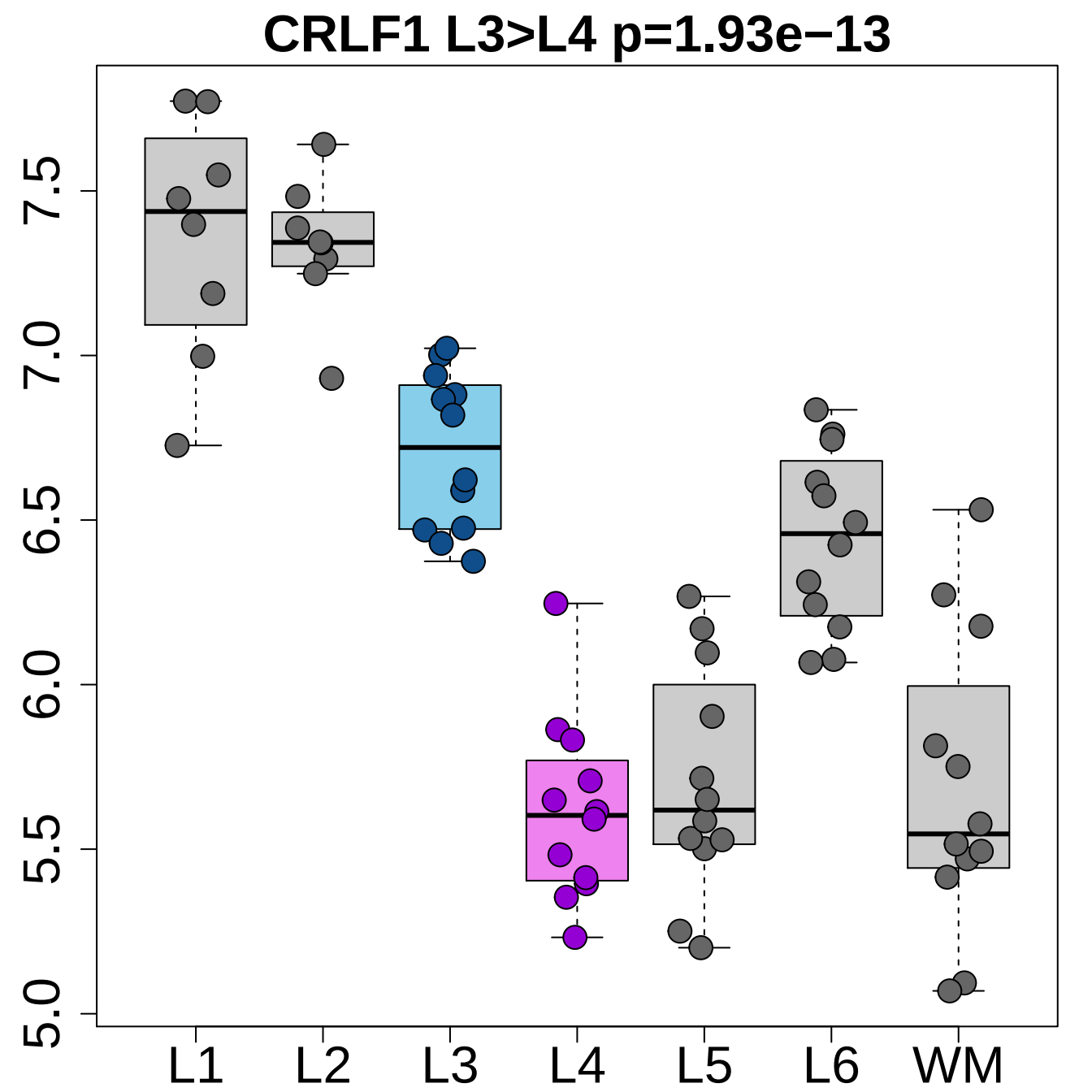
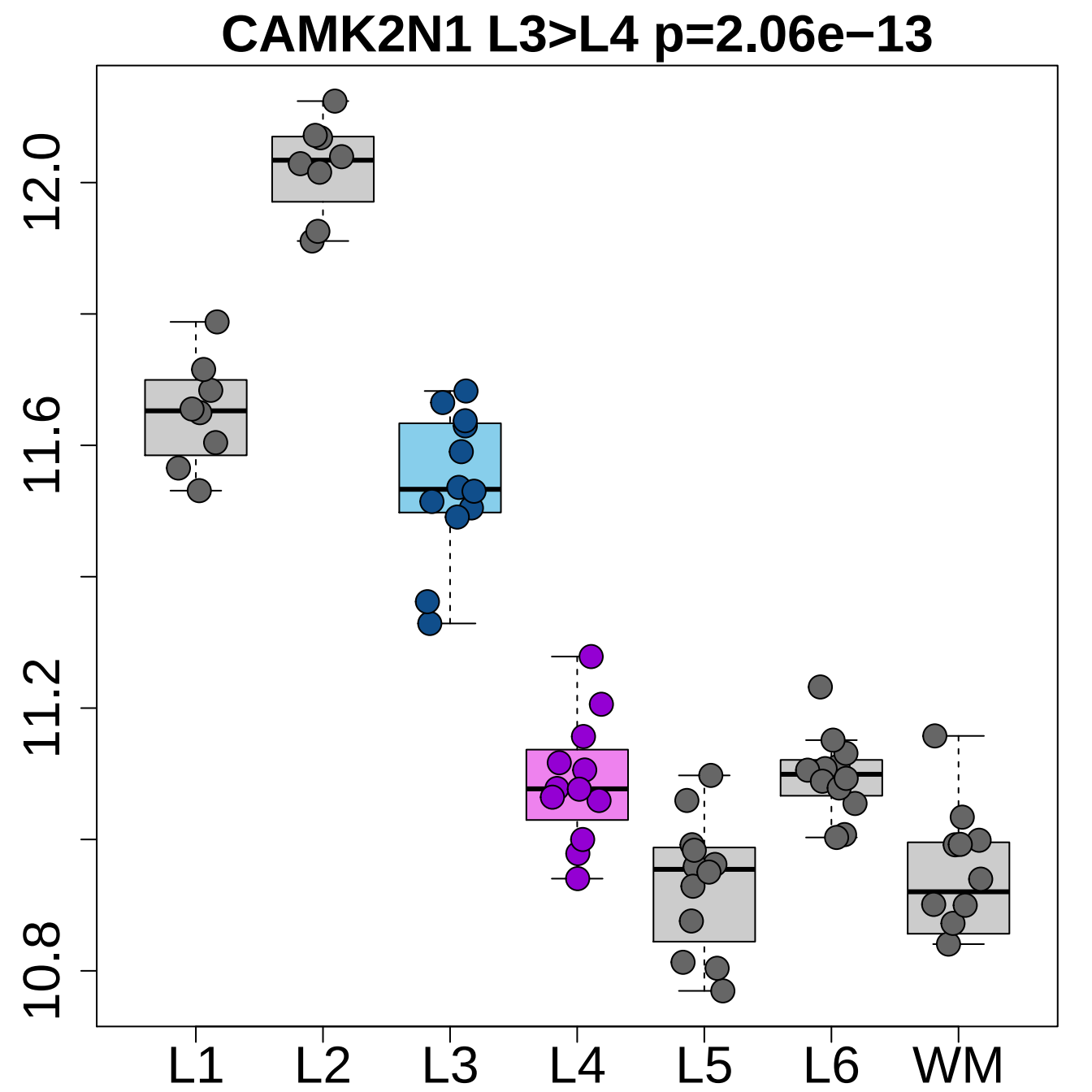
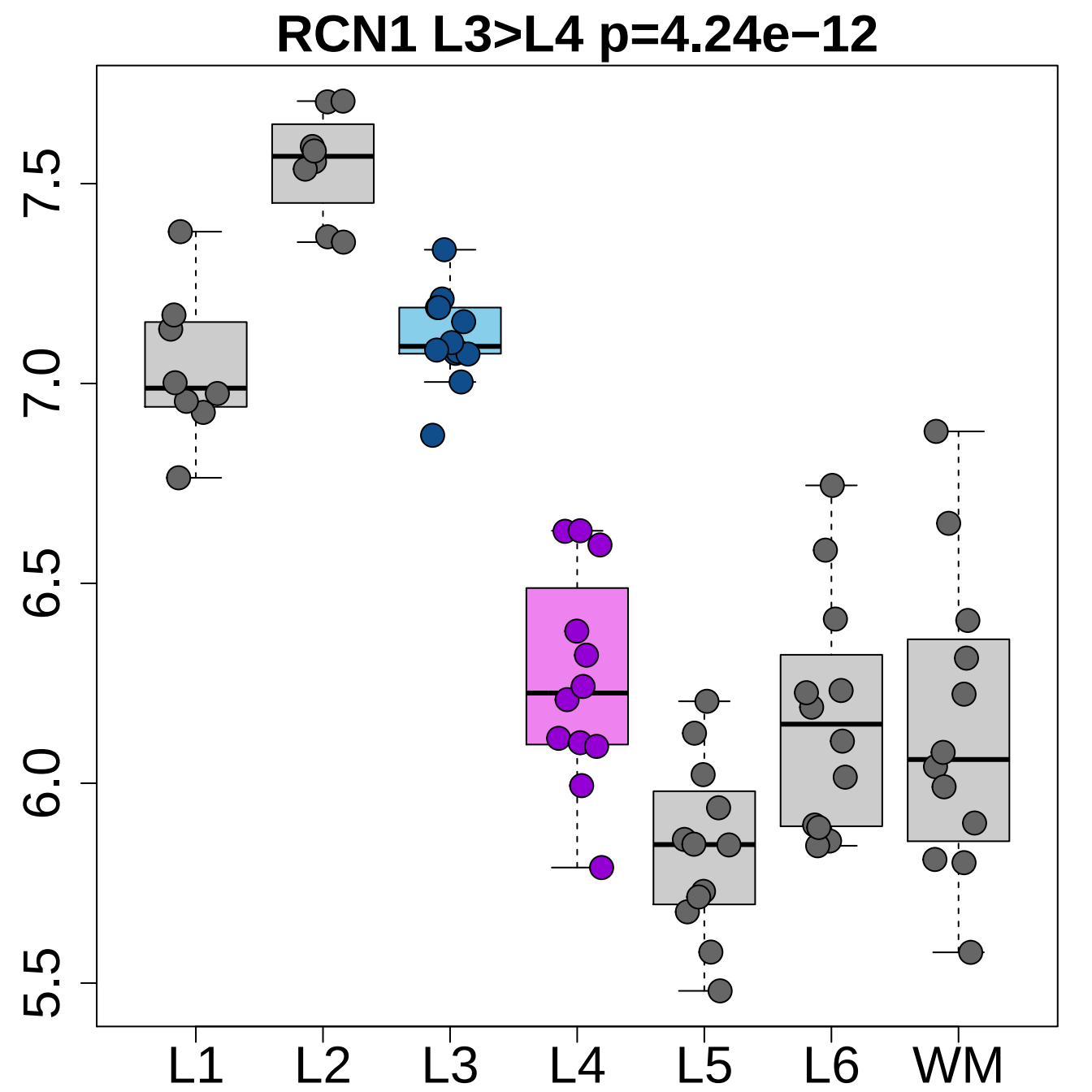
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


CRLF1 L3>L4 p=1.93e−13
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


CAMK2N1 L3>L4 p=2.06e−13
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM


RCN1 L3>L4 p=4.24e−12
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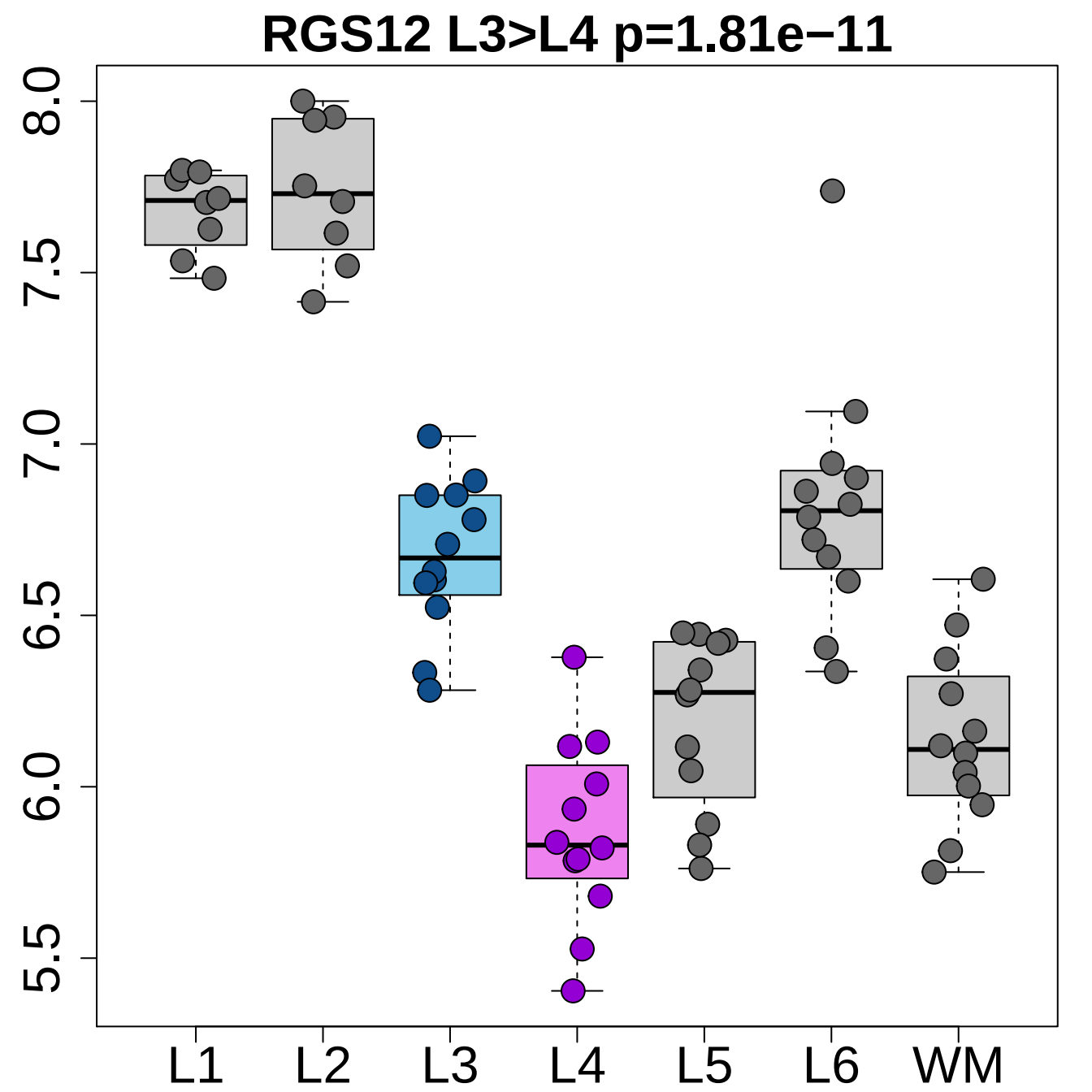
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


RGS12 L3>L4 p=1.81e−11
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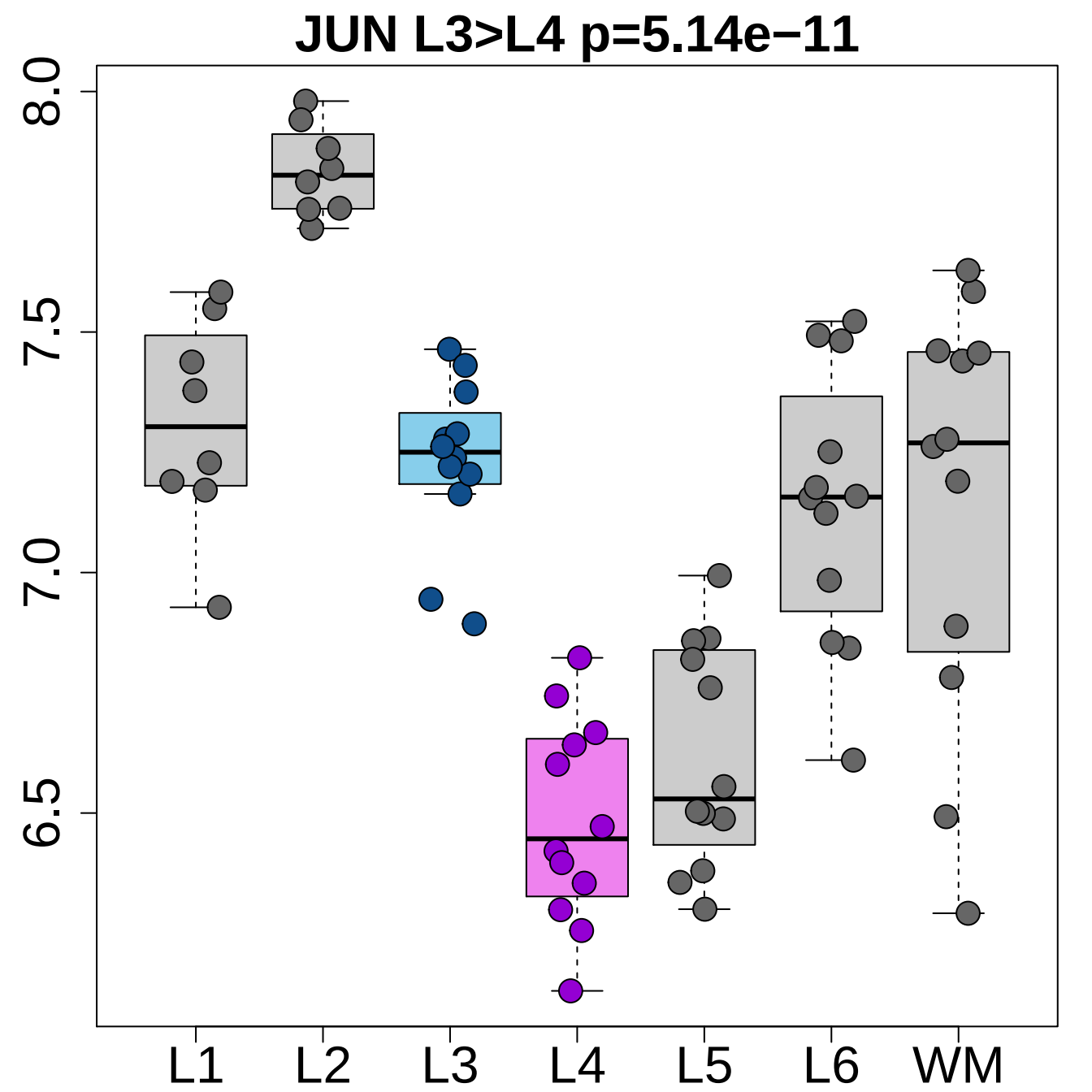
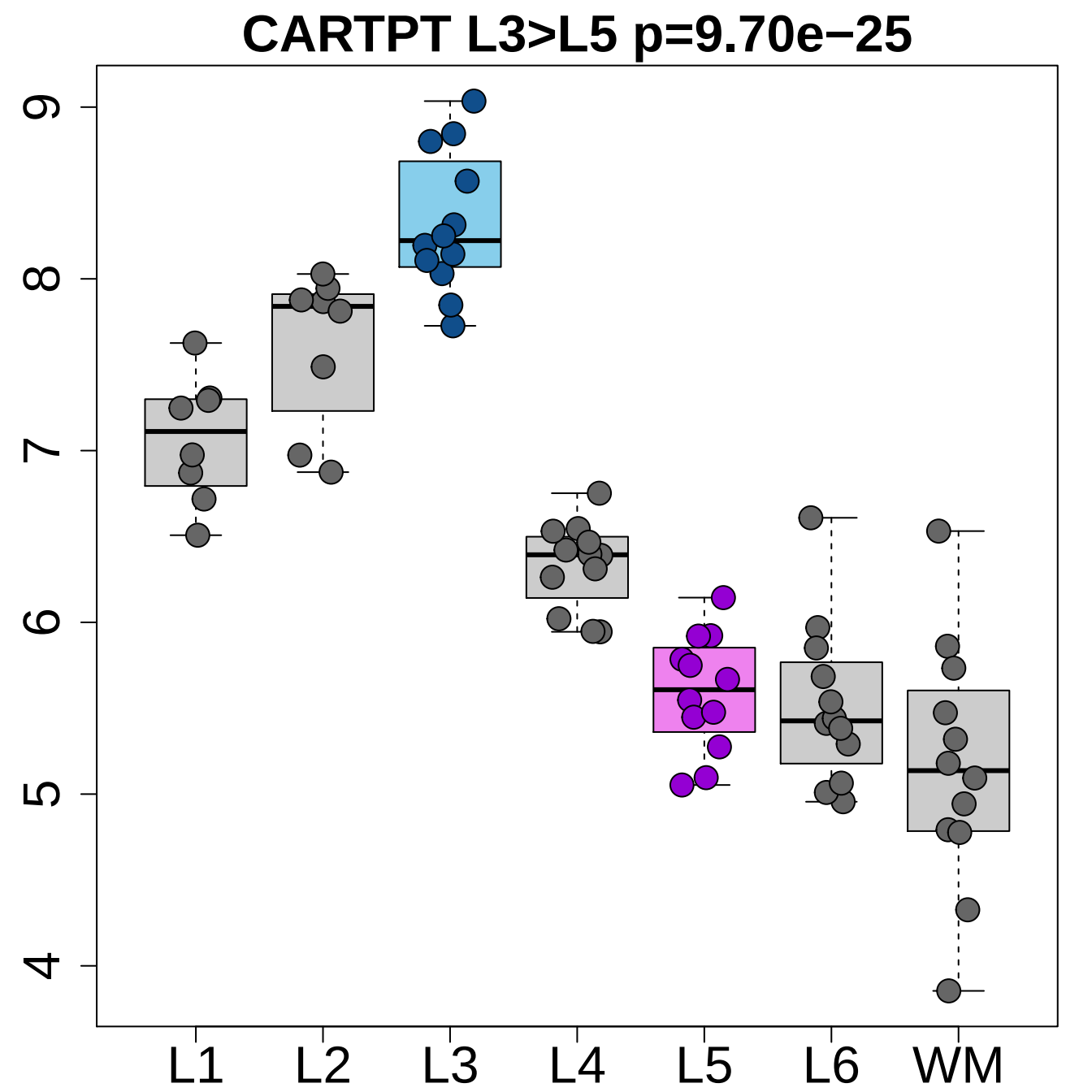
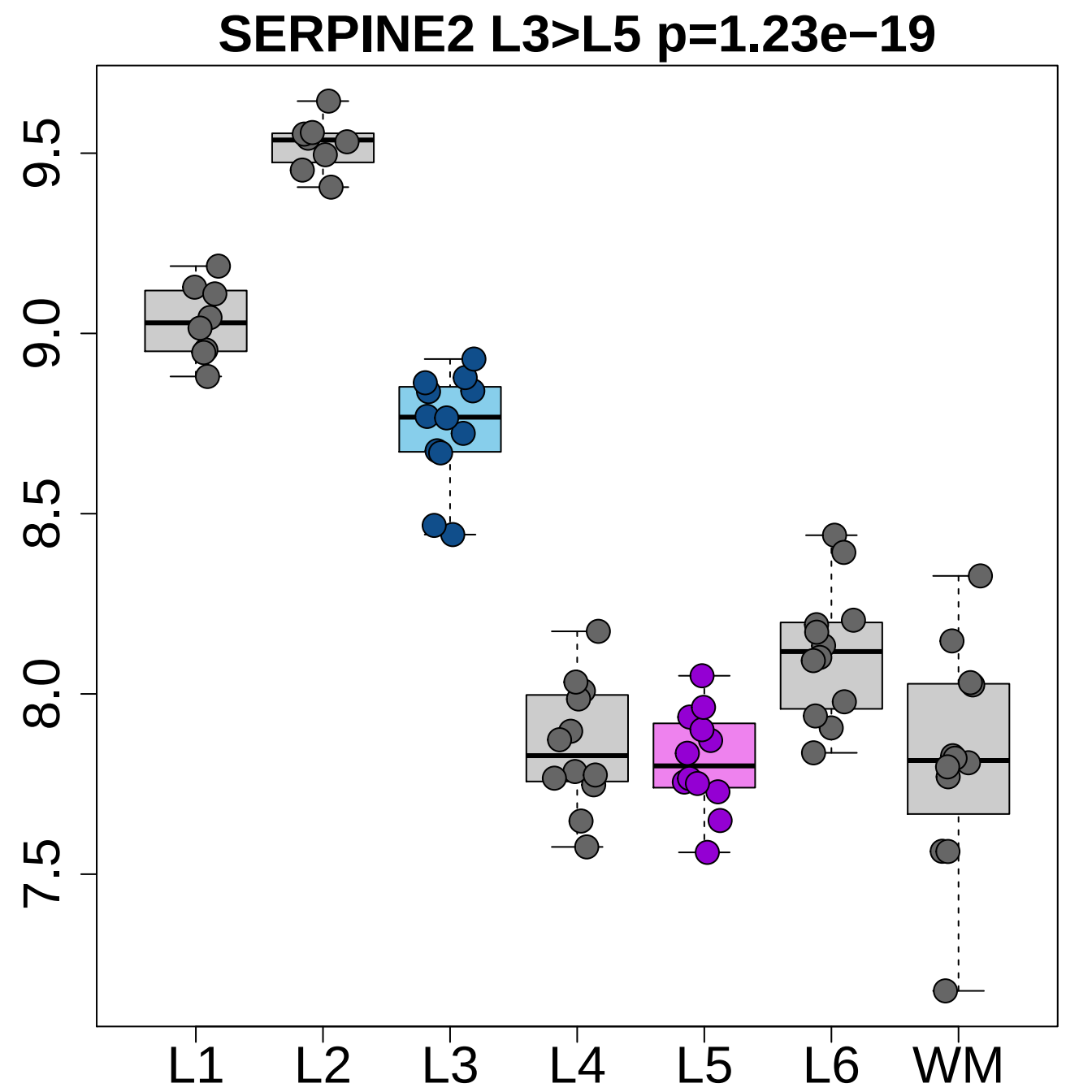
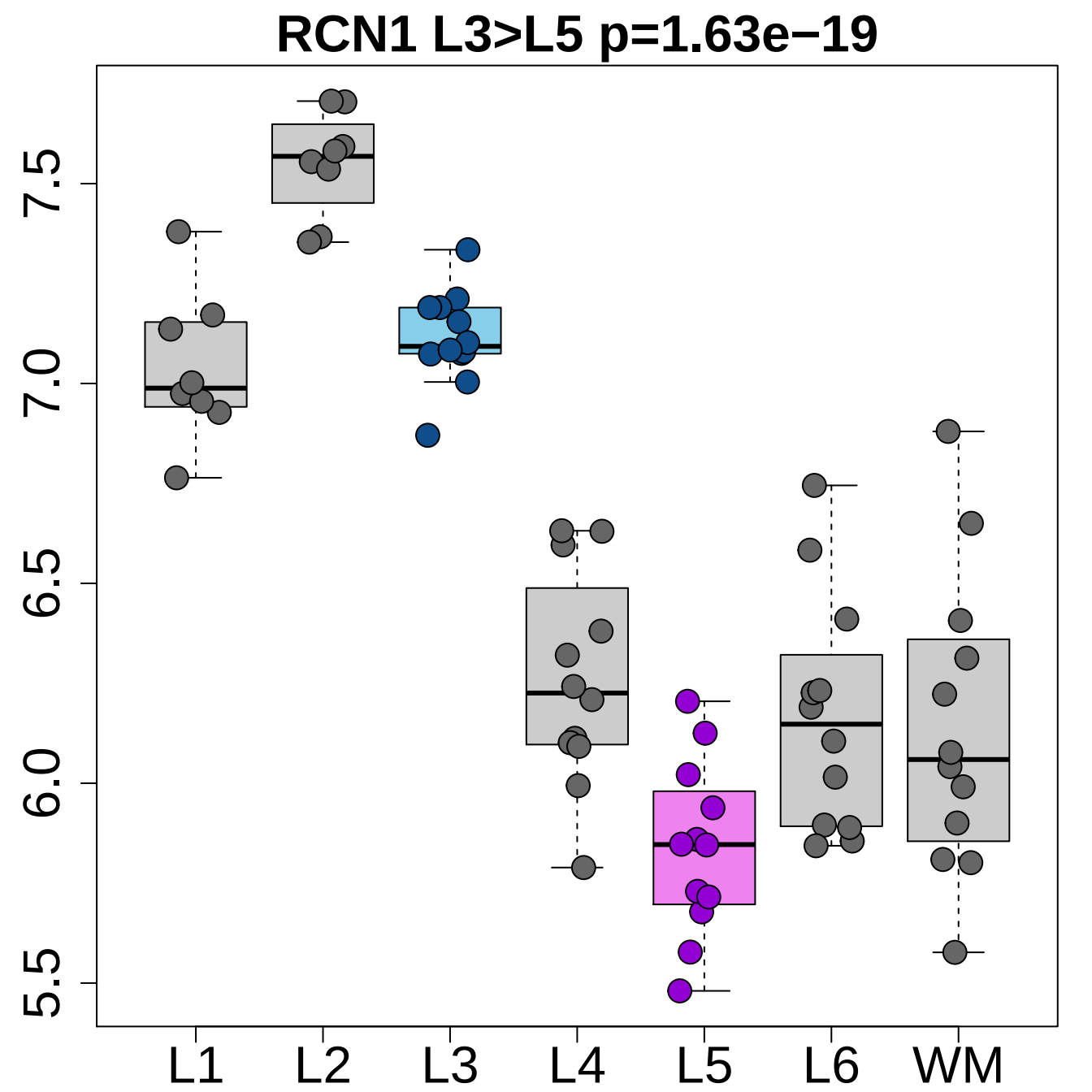
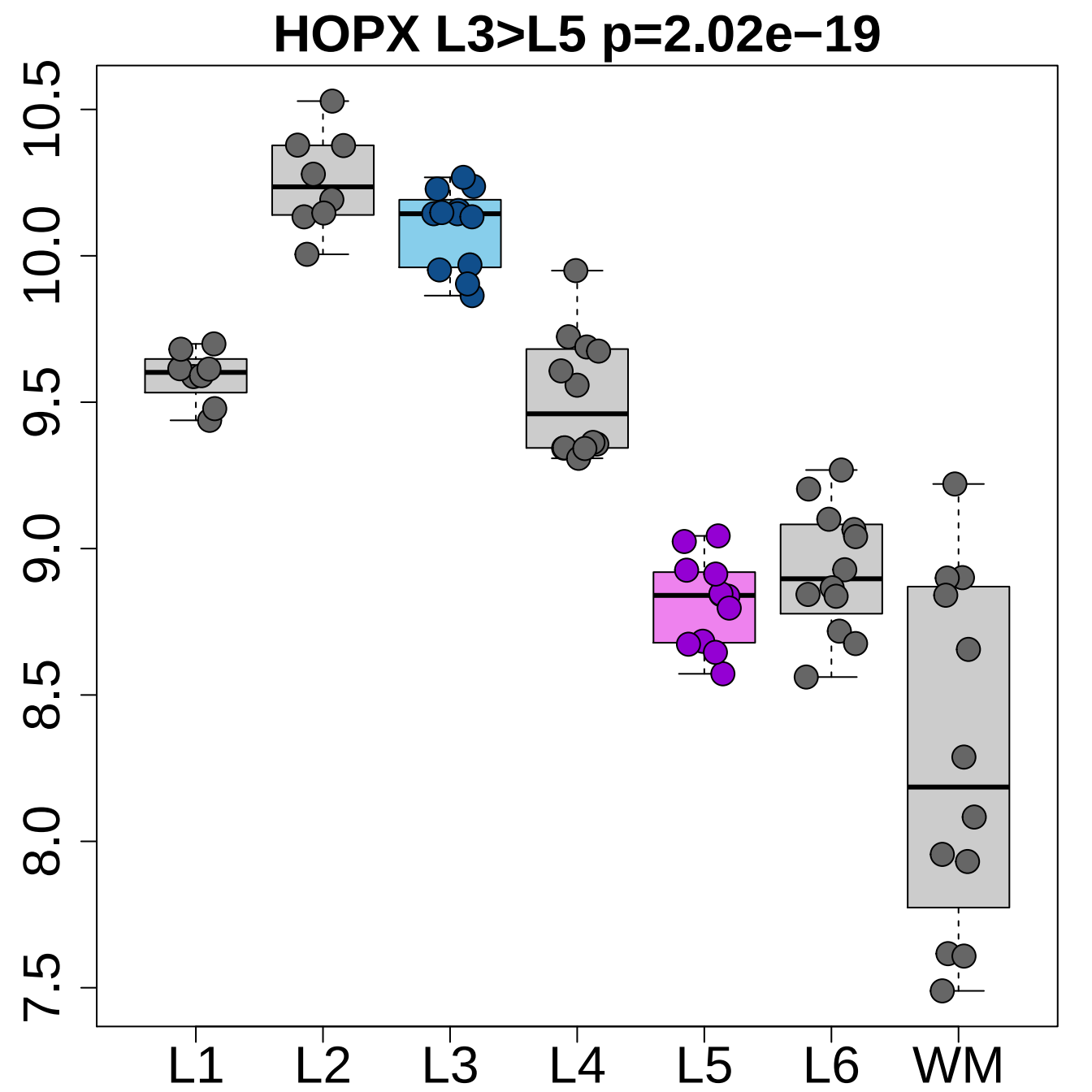
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


JUN L3>L4 p=5.14e−11
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


CARTPT L3>L5 p=9.70e−25
9
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


SERPINE2 L3>L5 p=1.23e−19
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


RCN1 L3>L5 p=1.63e−19
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


HOPX L3>L5 p=2.02e−19
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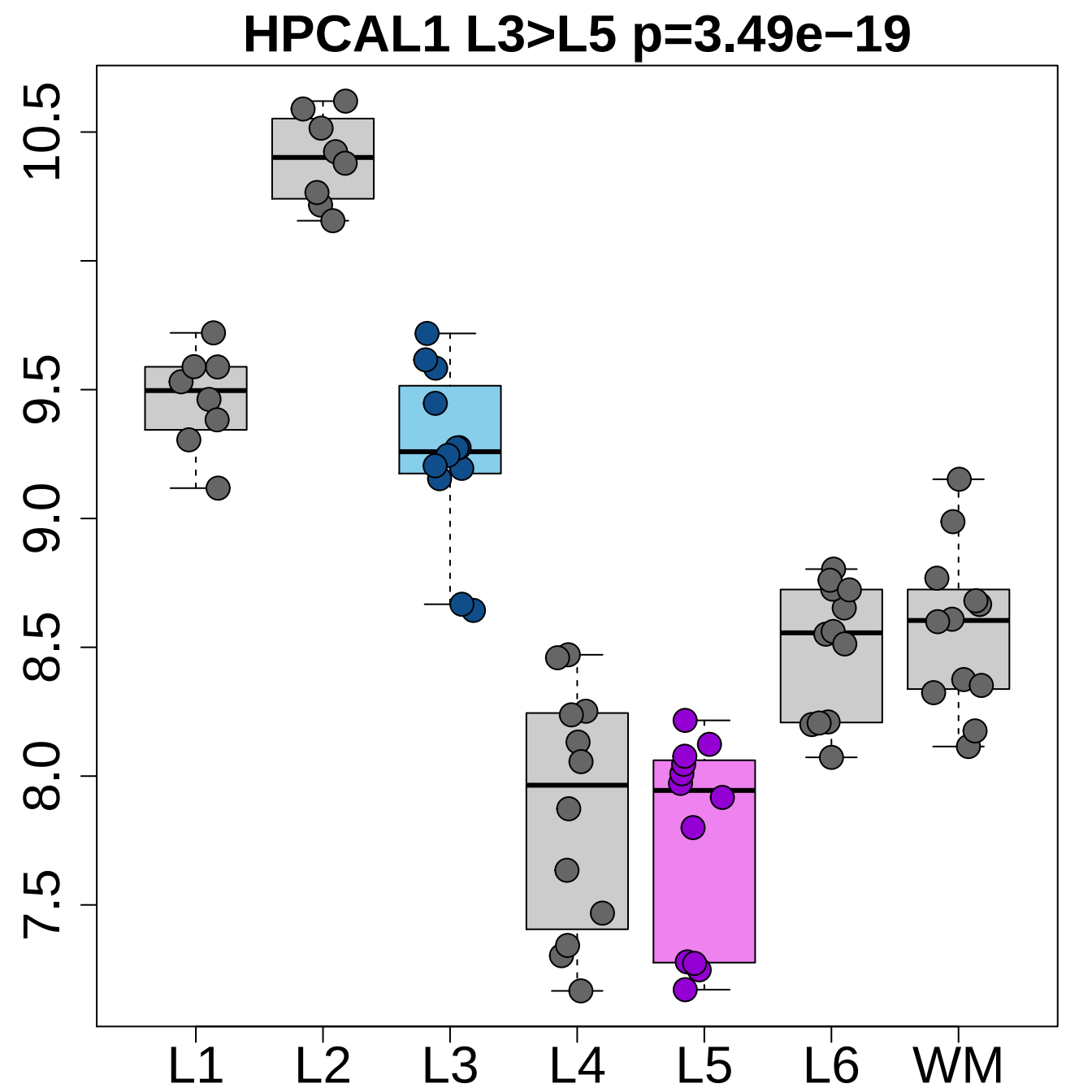
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


HPCAL1 L3>L5 p=3.49e−19
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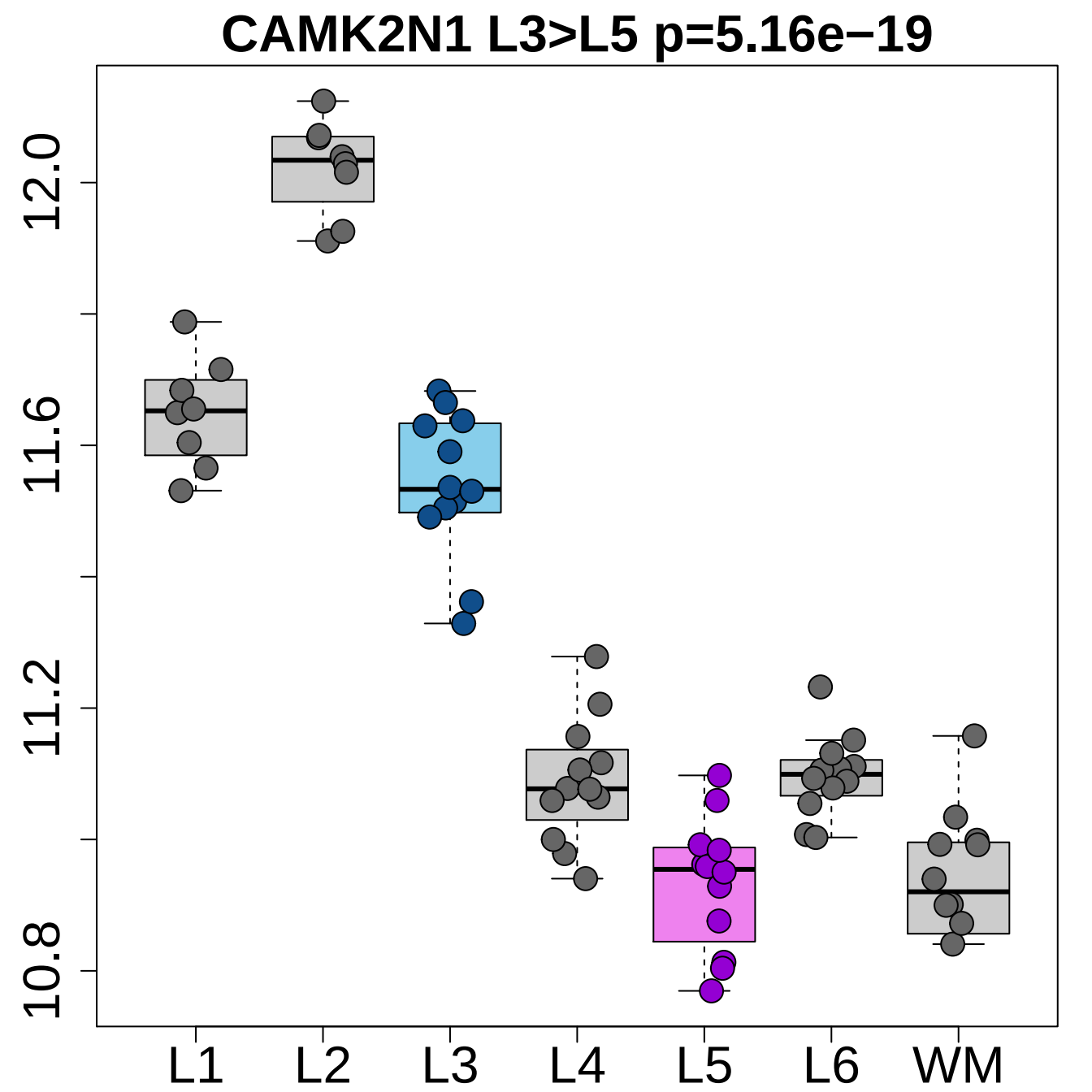
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


CAMK2N1 L3>L5 p=5.16e−19
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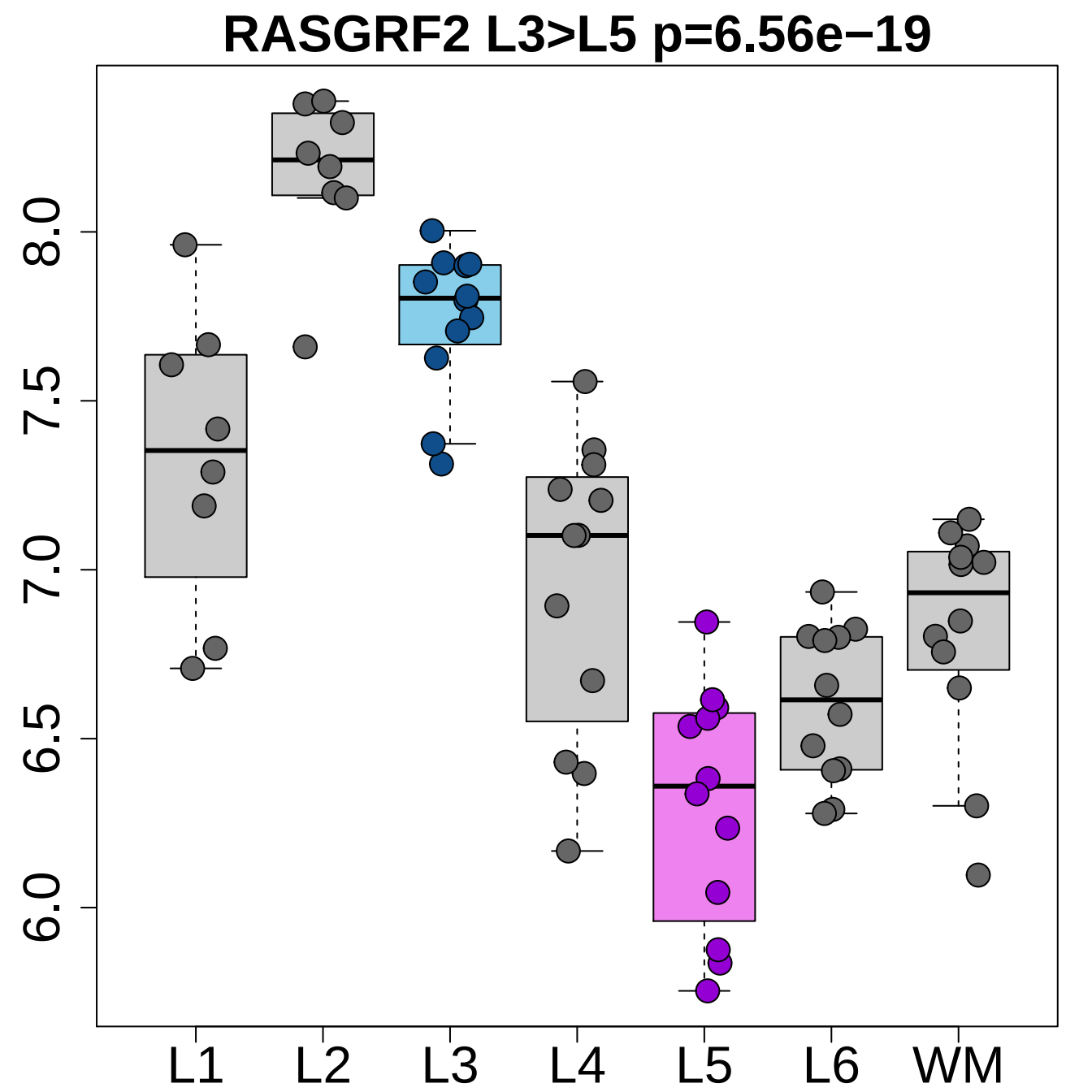
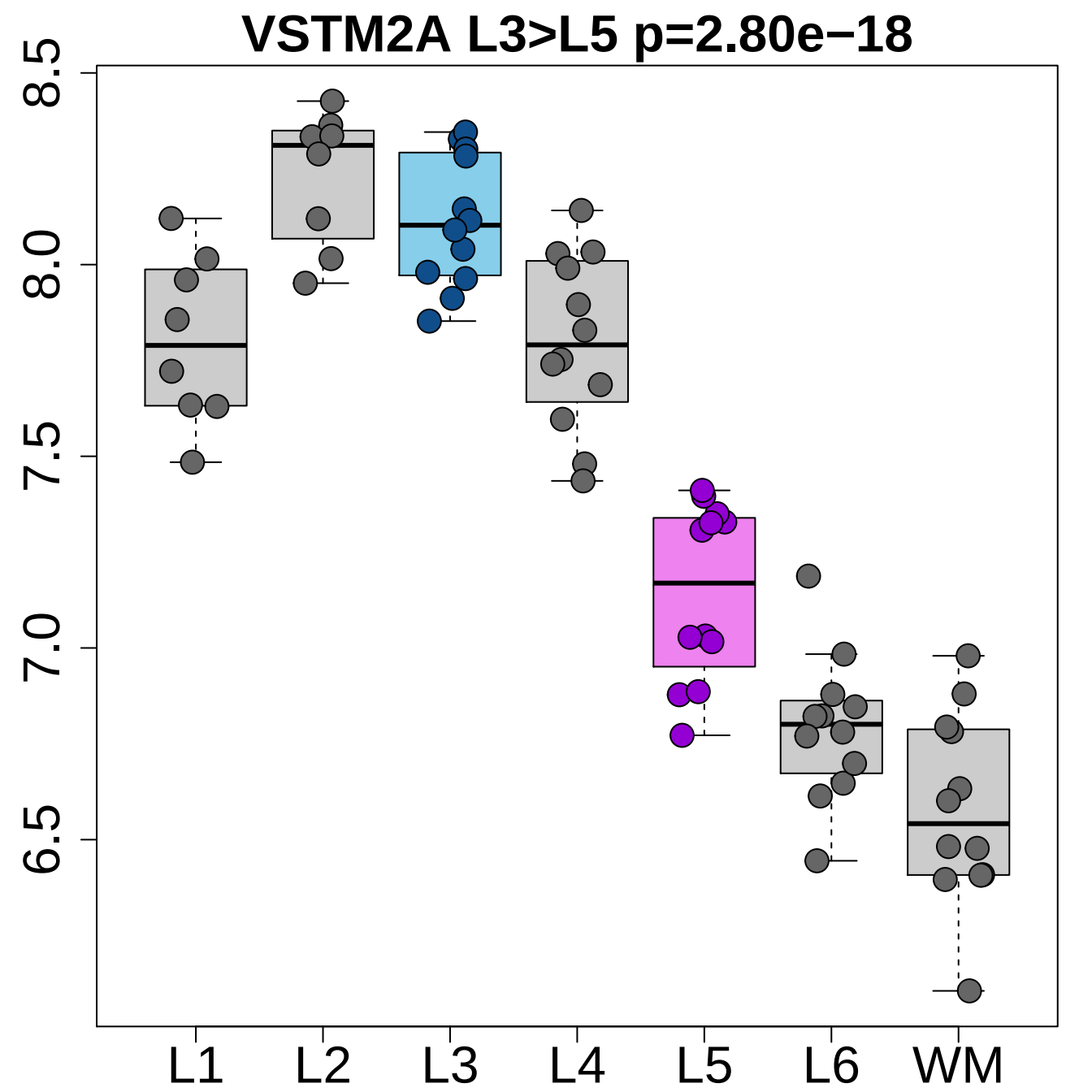
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM


RASGRF2 L3>L5 p=6.56e−19
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


VSTM2A L3>L5 p=2.80e−18
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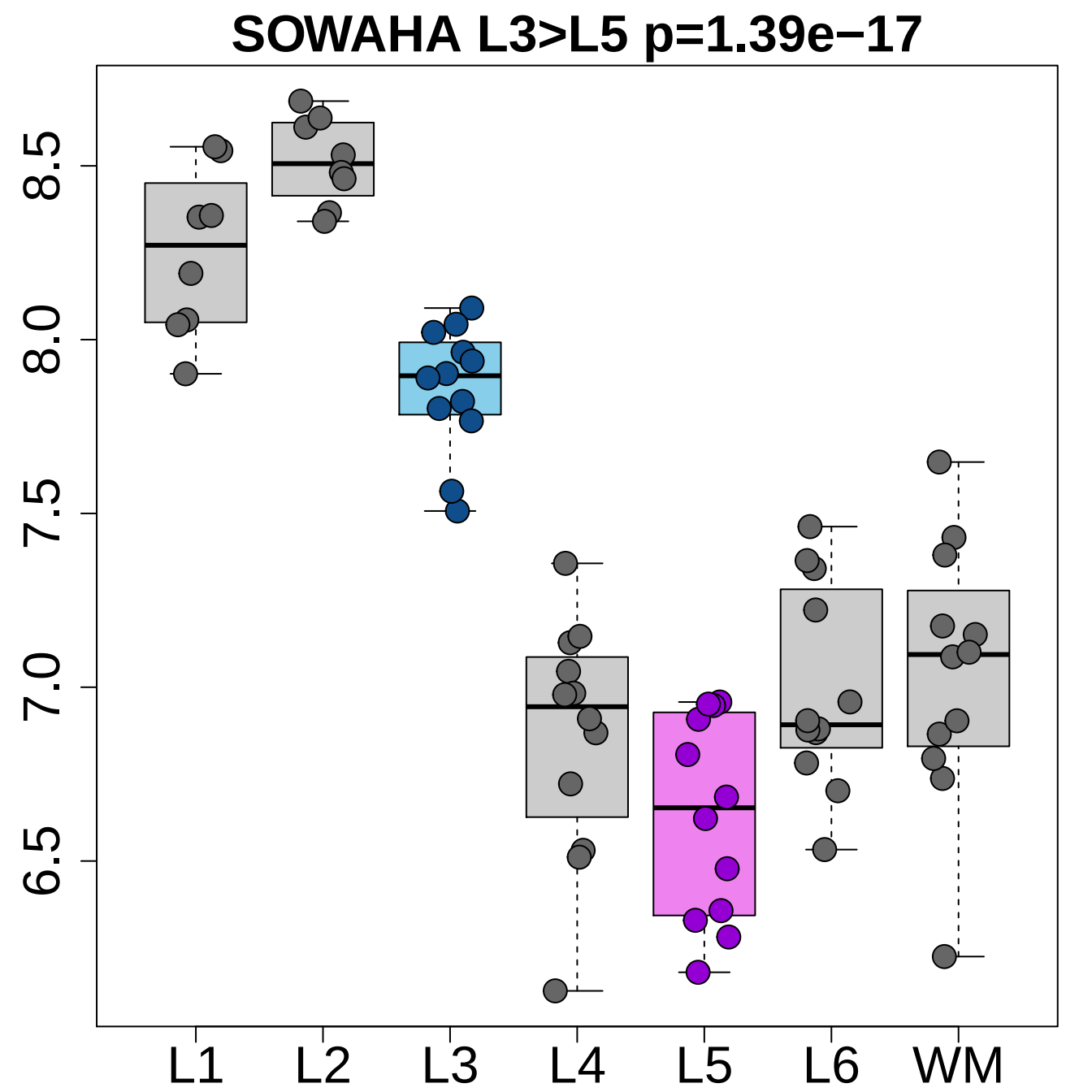
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


SOWAHA L3>L5 p=1.39e−17
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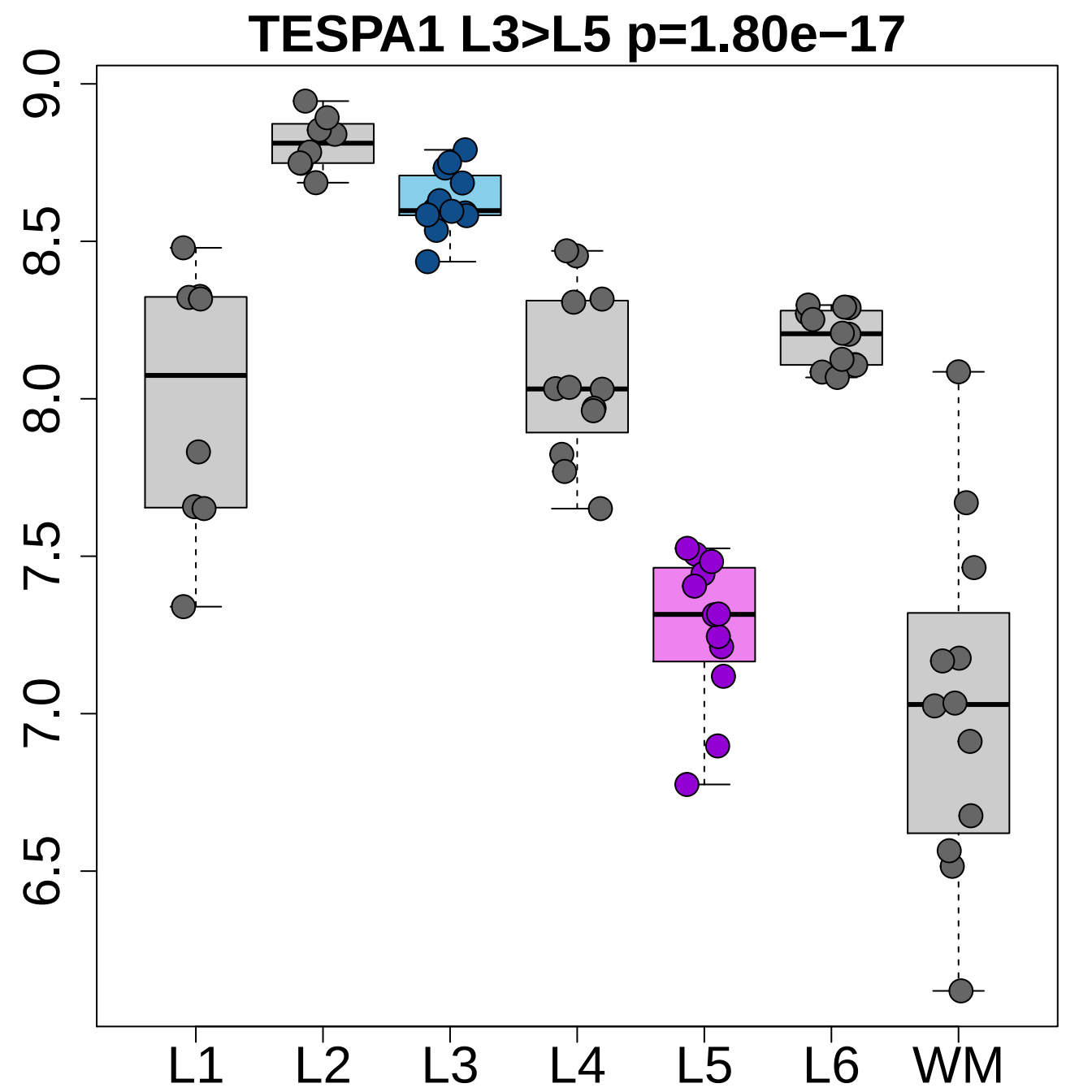
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


TESPA1 L3>L5 p=1.80e−17
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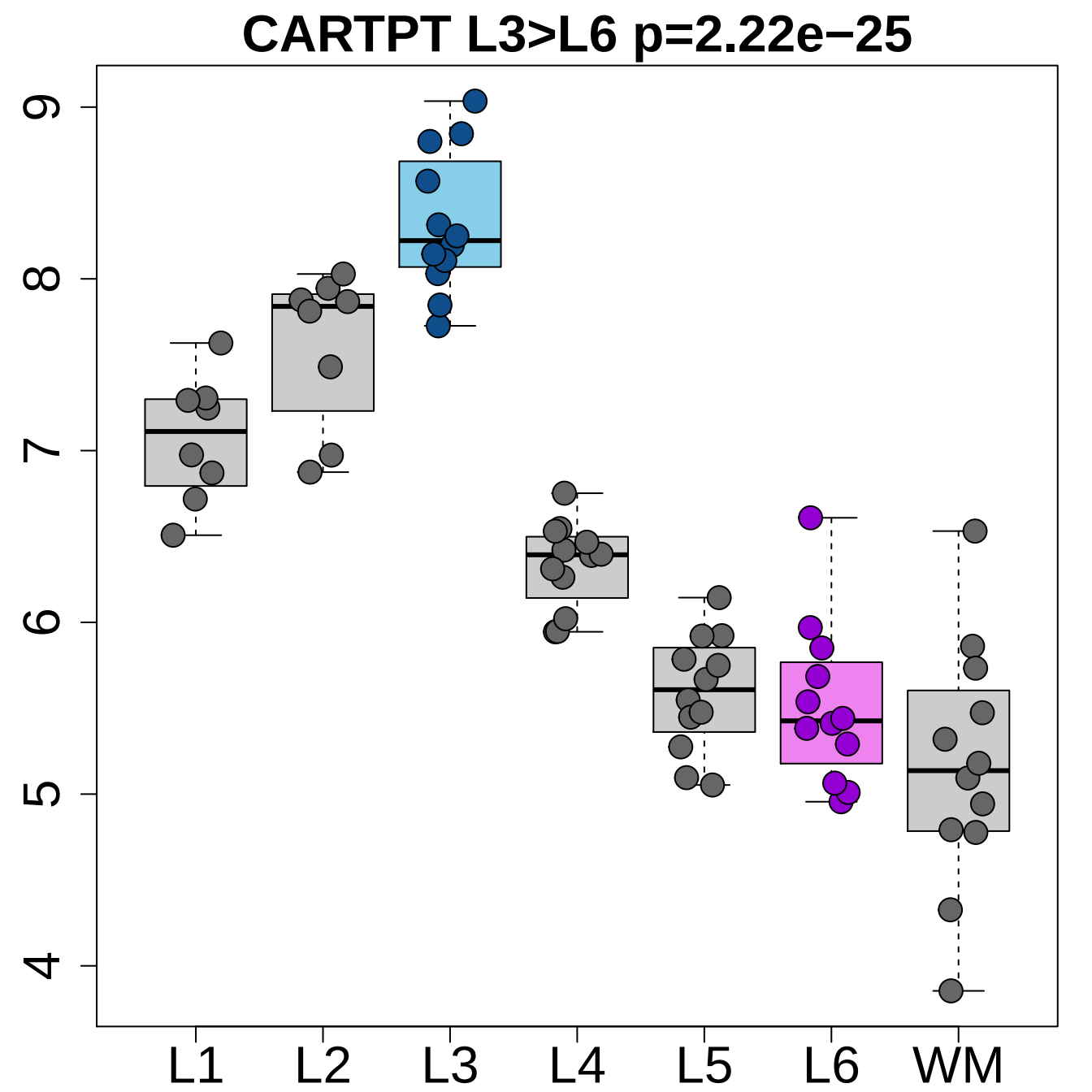
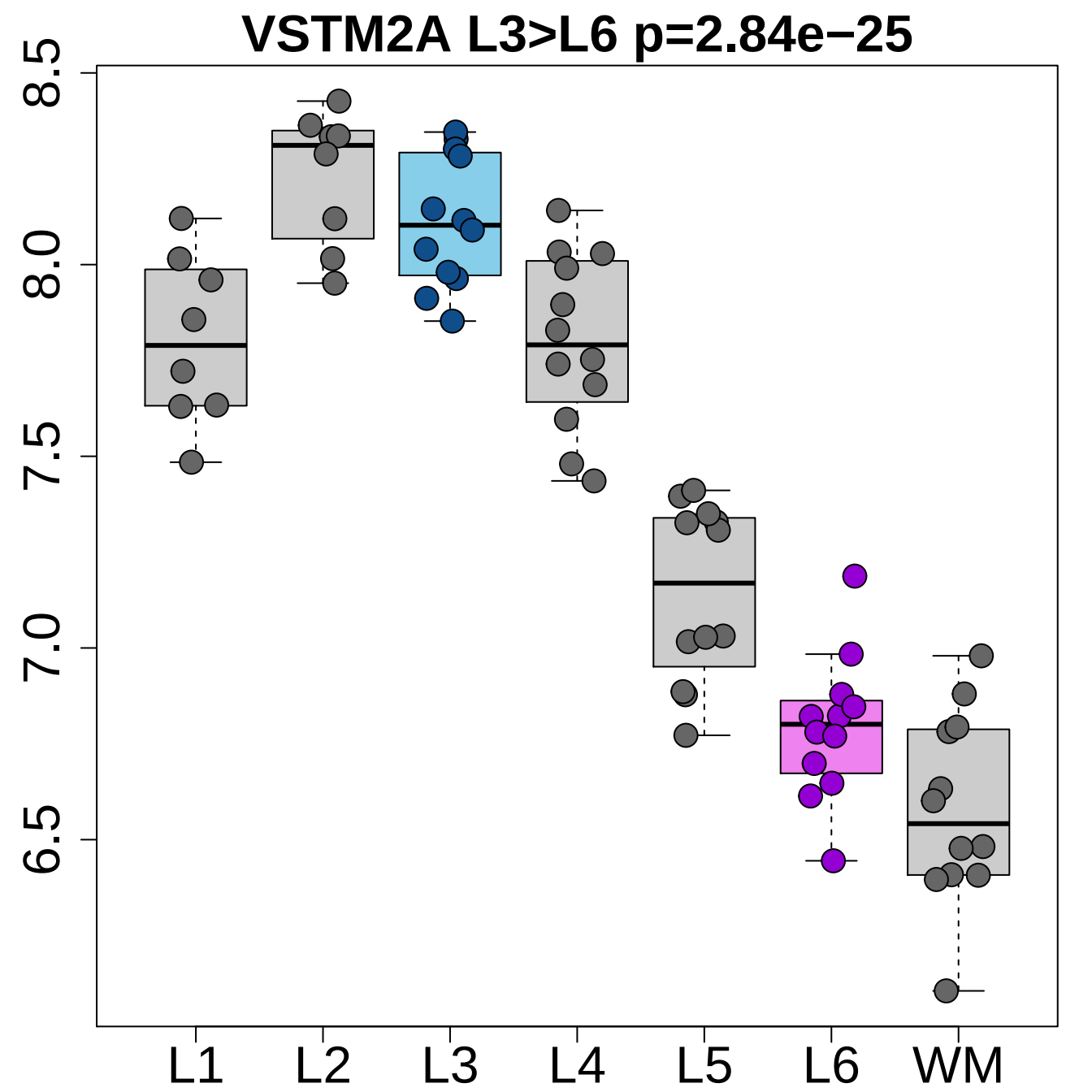
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


CARTPT L3>L6 p=2.22e−25
9
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


VSTM2A L3>L6 p=2.84e−25
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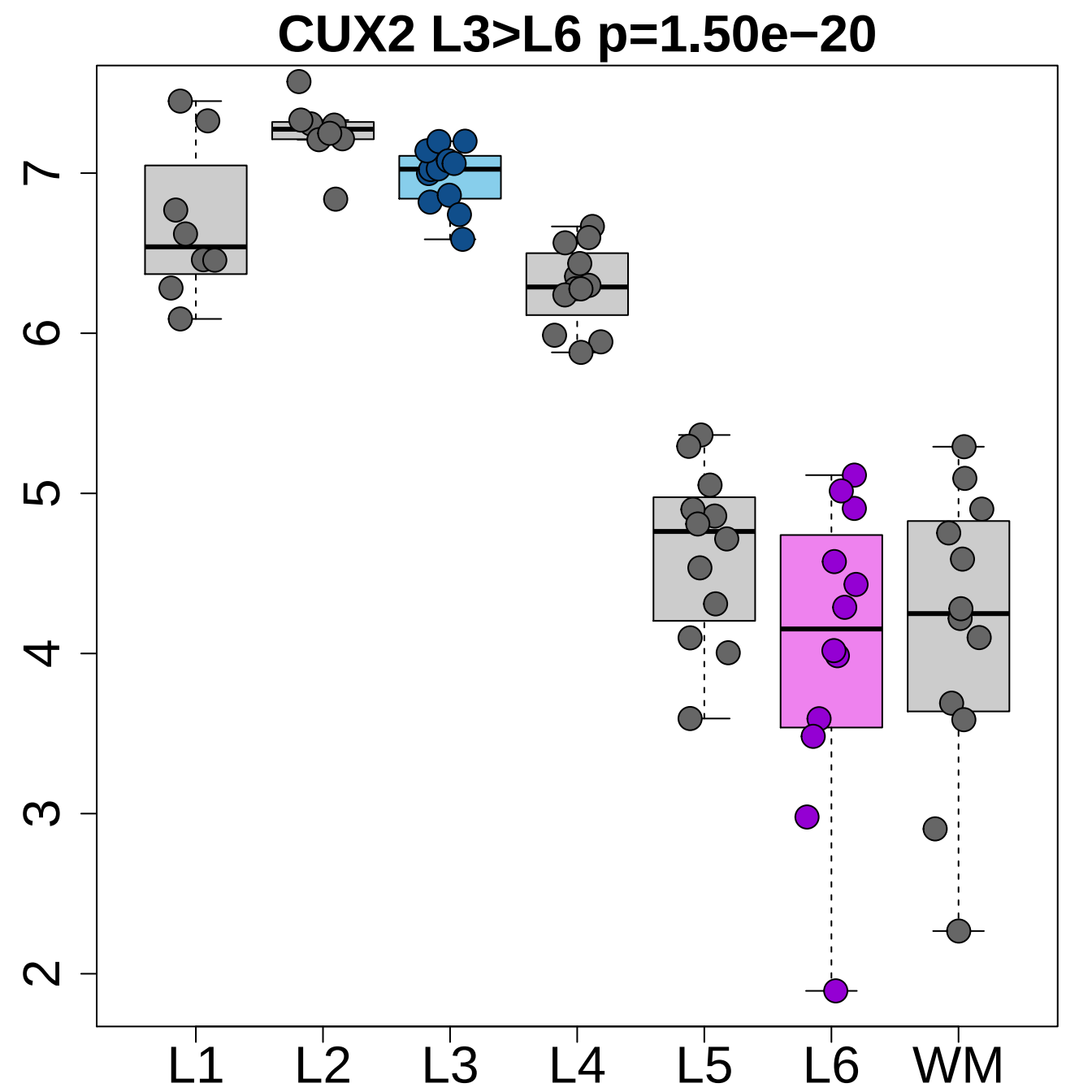
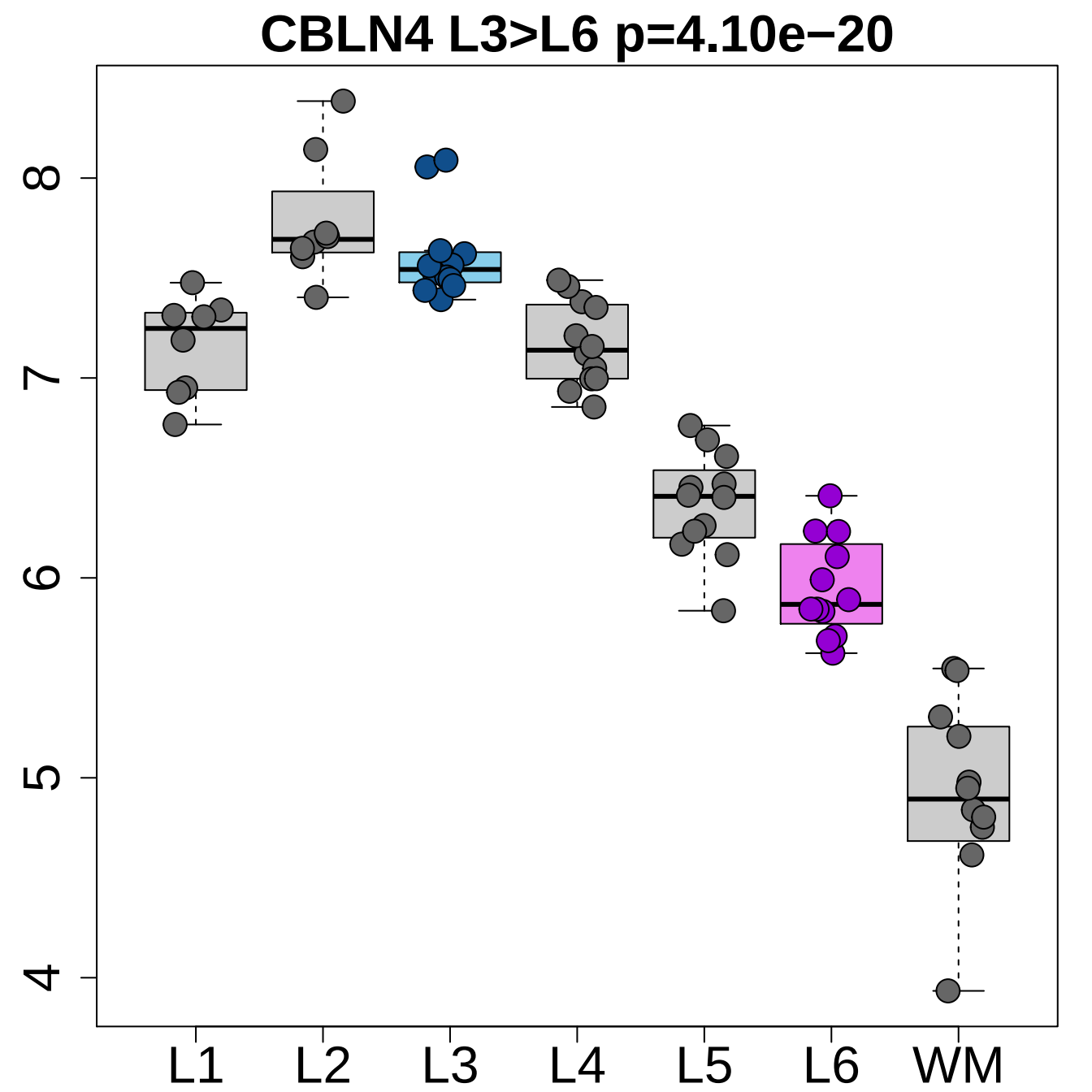
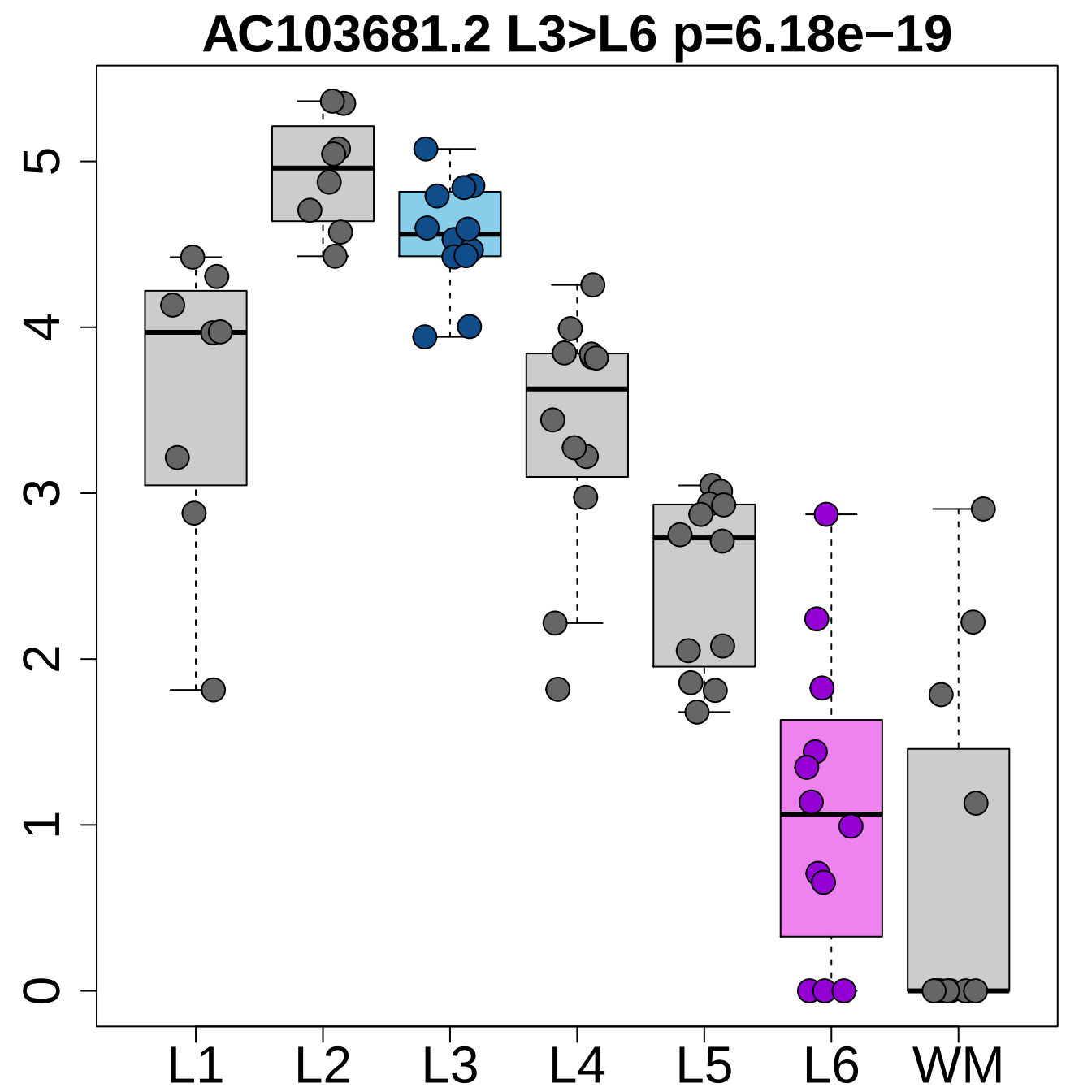
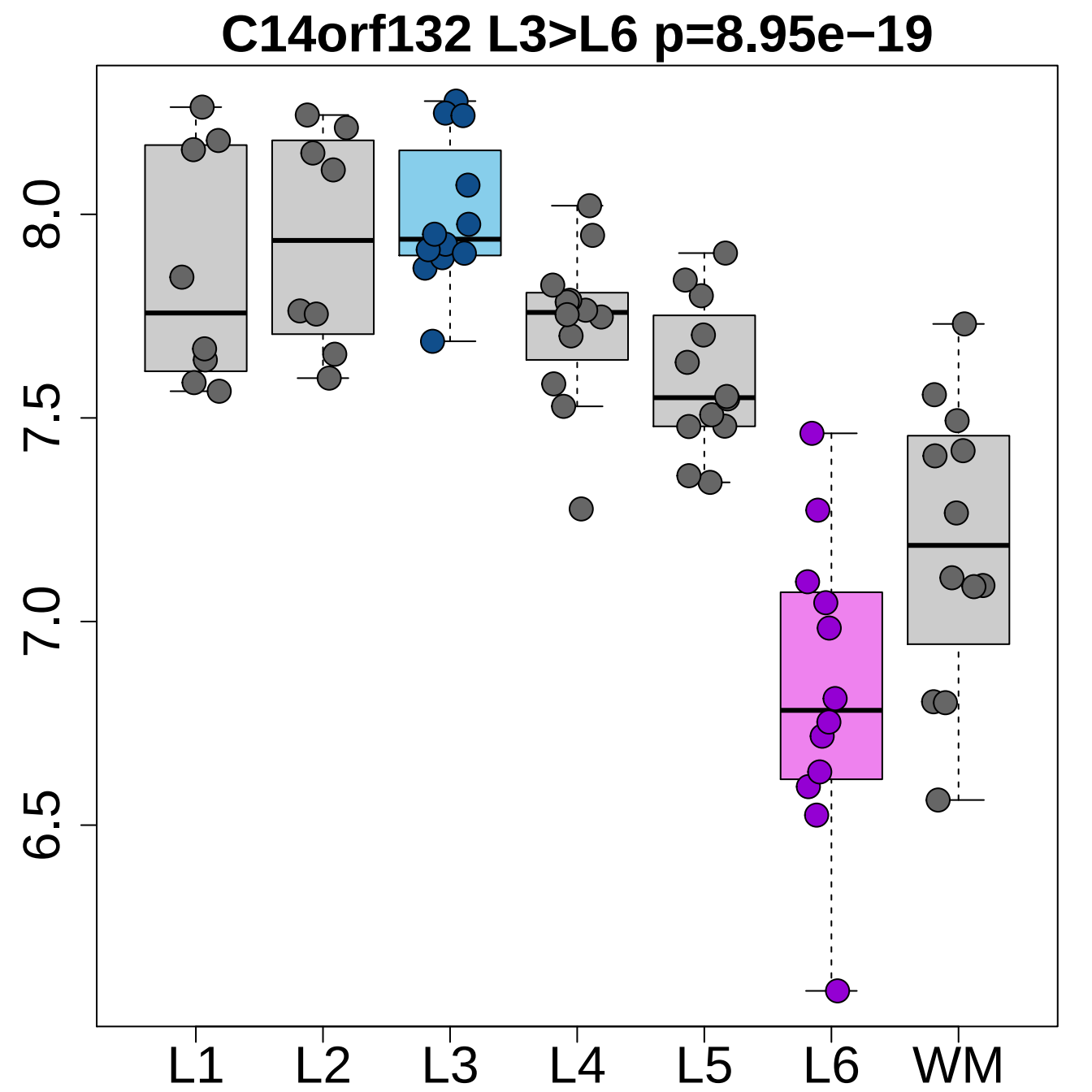
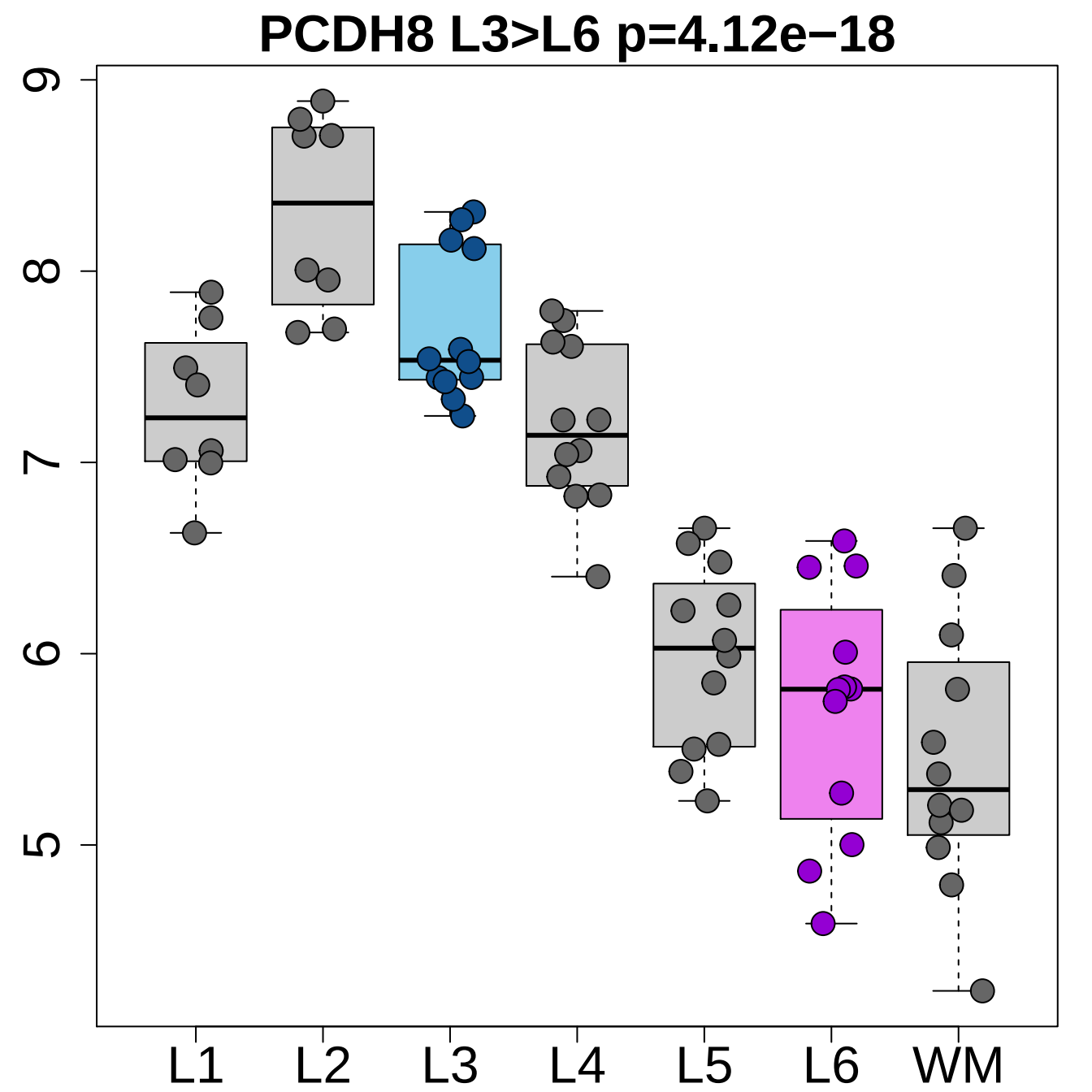
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

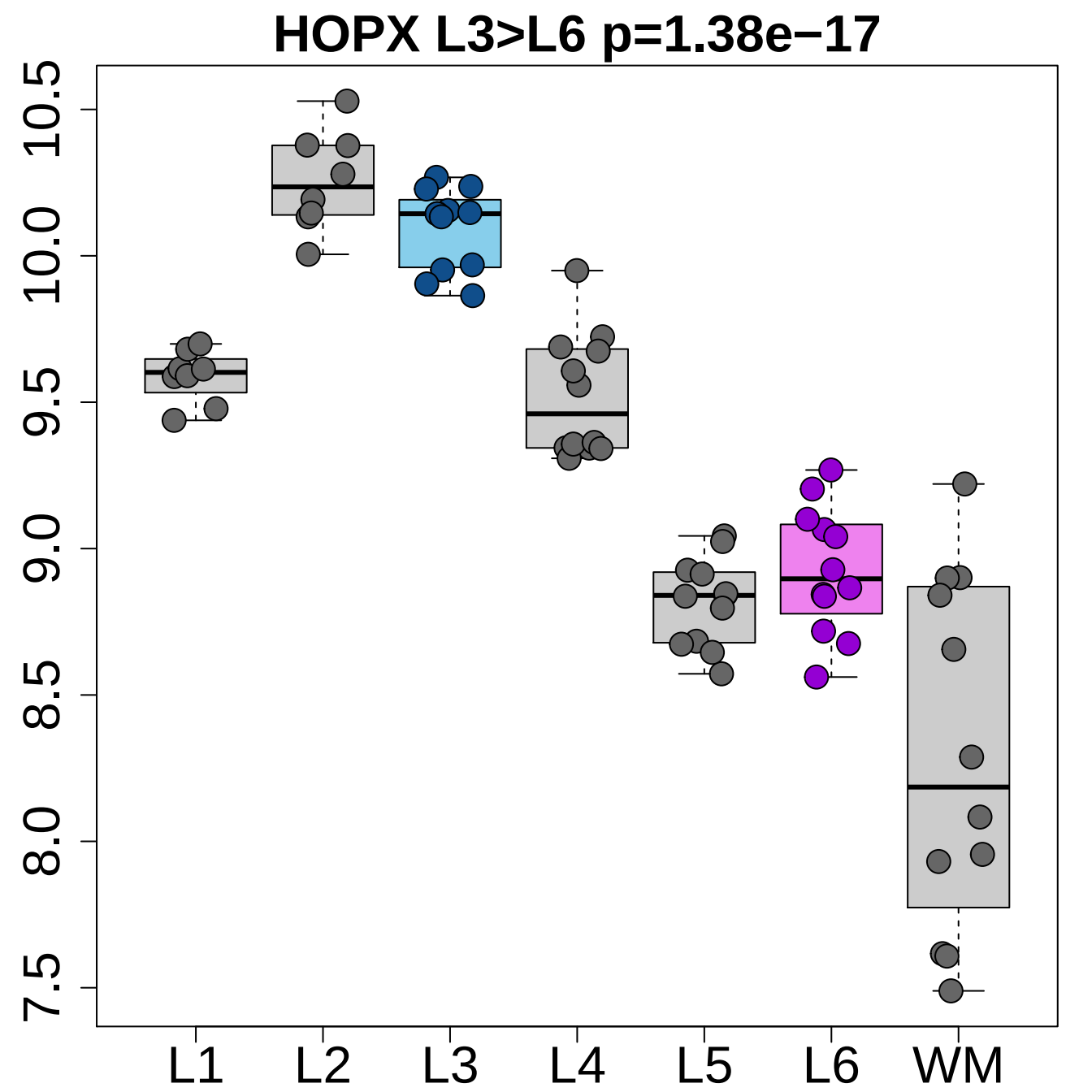

CUX2 L3>L6 p=1.50e−20
7
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM

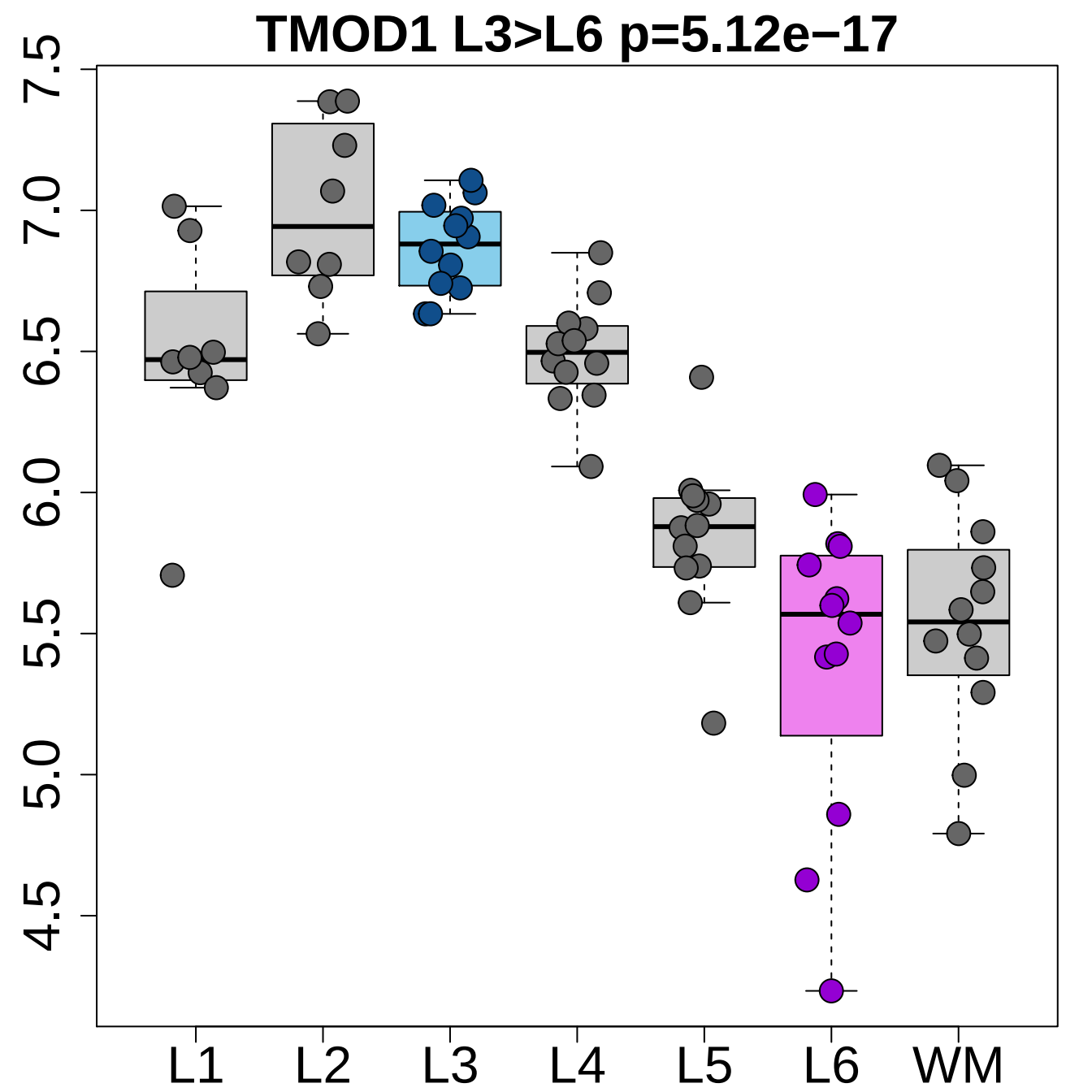

CBLN4 L3>L6 p=4.10e−20
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

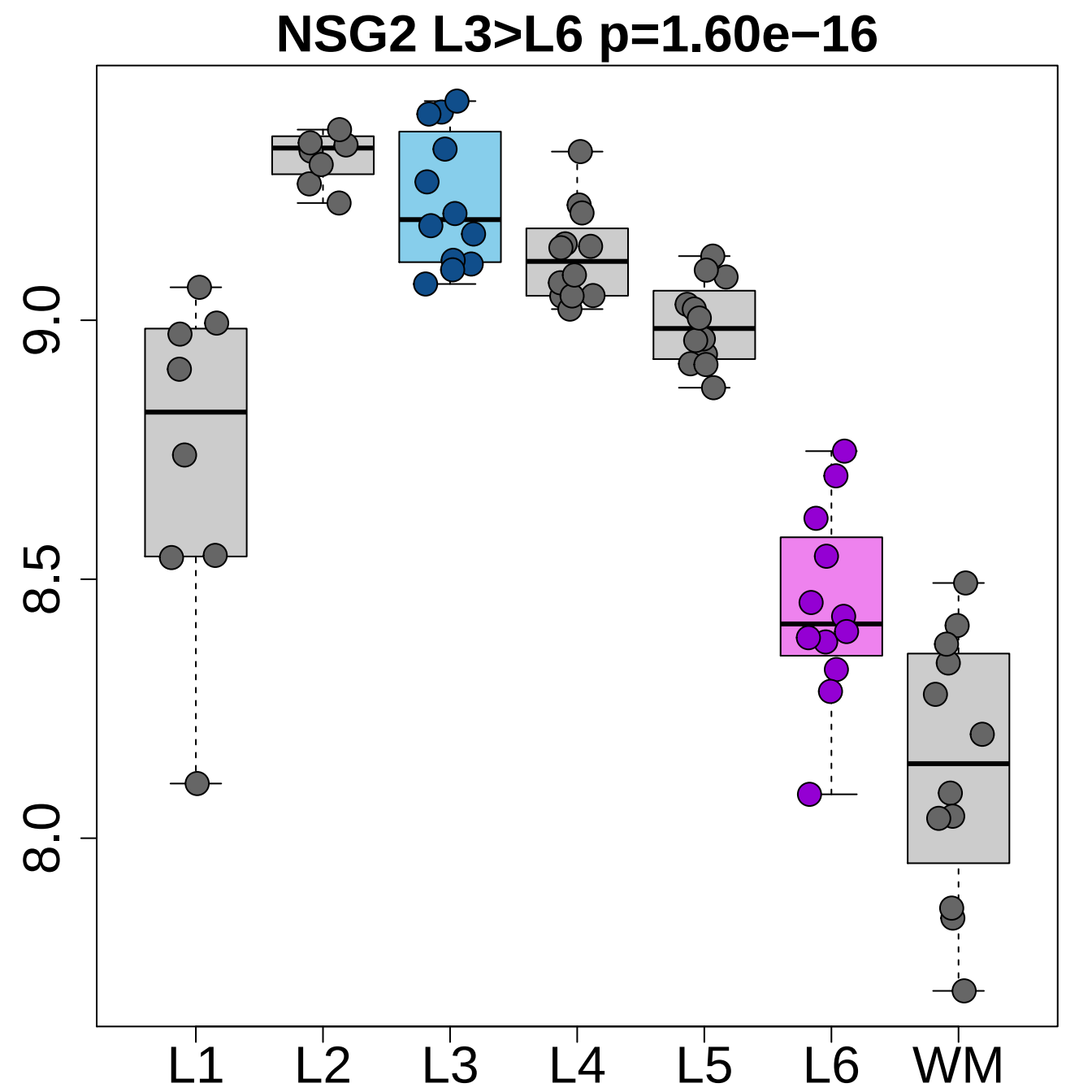

AC103681.2 L3>L6 p=6.18e−19
0
1
2
3
4
5
L1
L2
L3
L4
L5
L6
WM

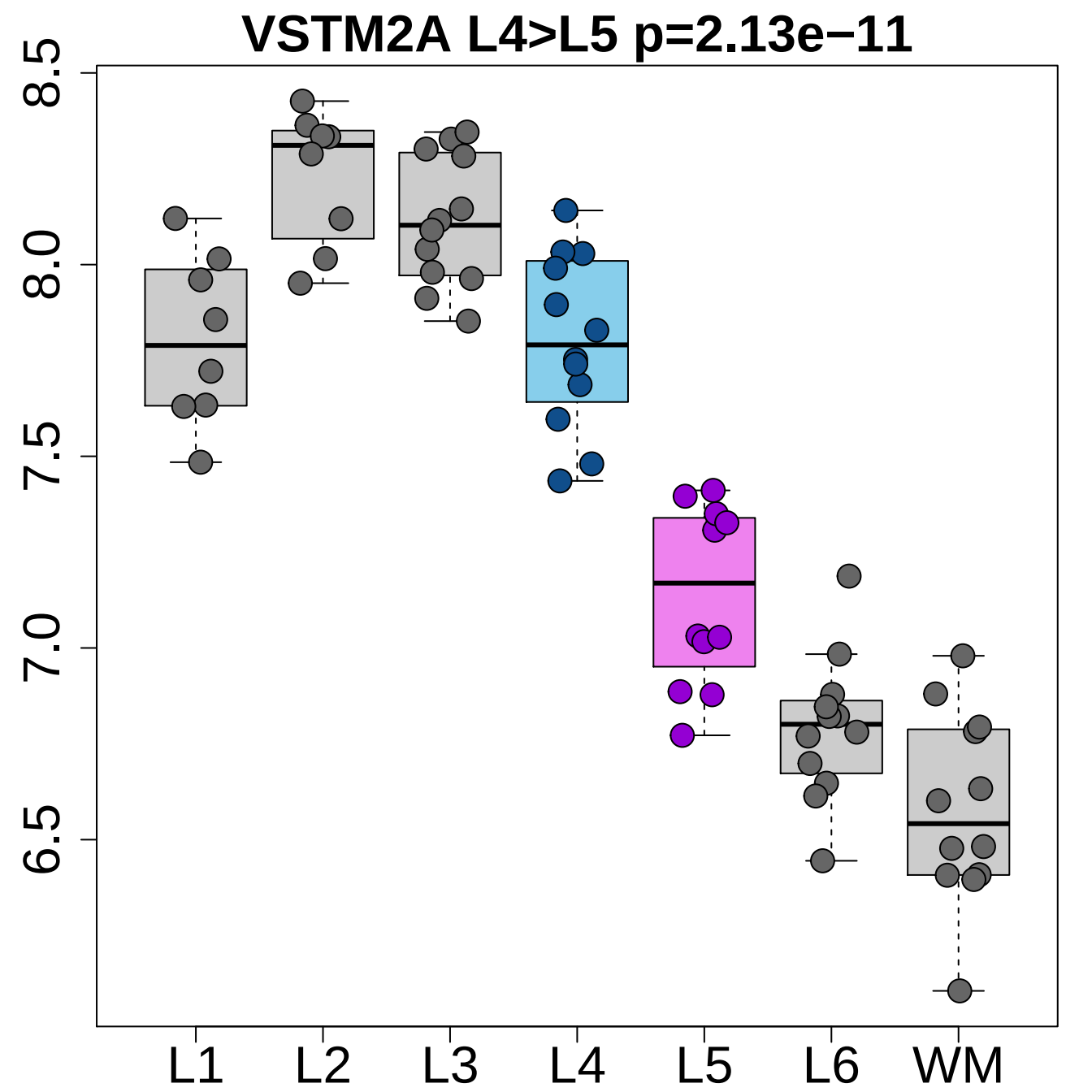

C14orf132 L3>L6 p=8.95e−19
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


PCDH8 L3>L6 p=4.12e−18
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


HOPX L3>L6 p=1.38e−17
10.5
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


TMOD1 L3>L6 p=5.12e−17
7.5
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


NSG2 L3>L6 p=1.60e−16
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM


VSTM2A L4>L5 p=2.13e−11
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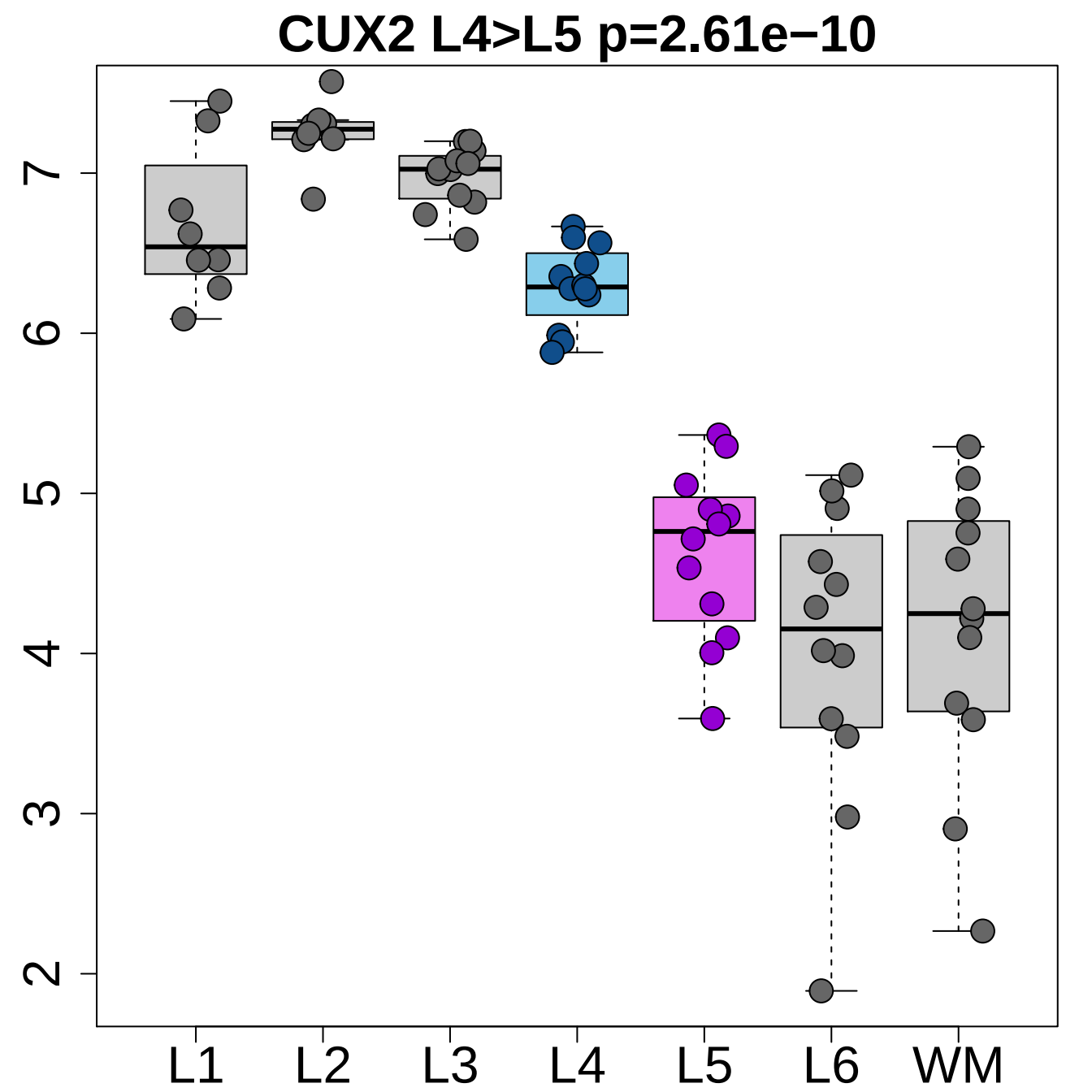
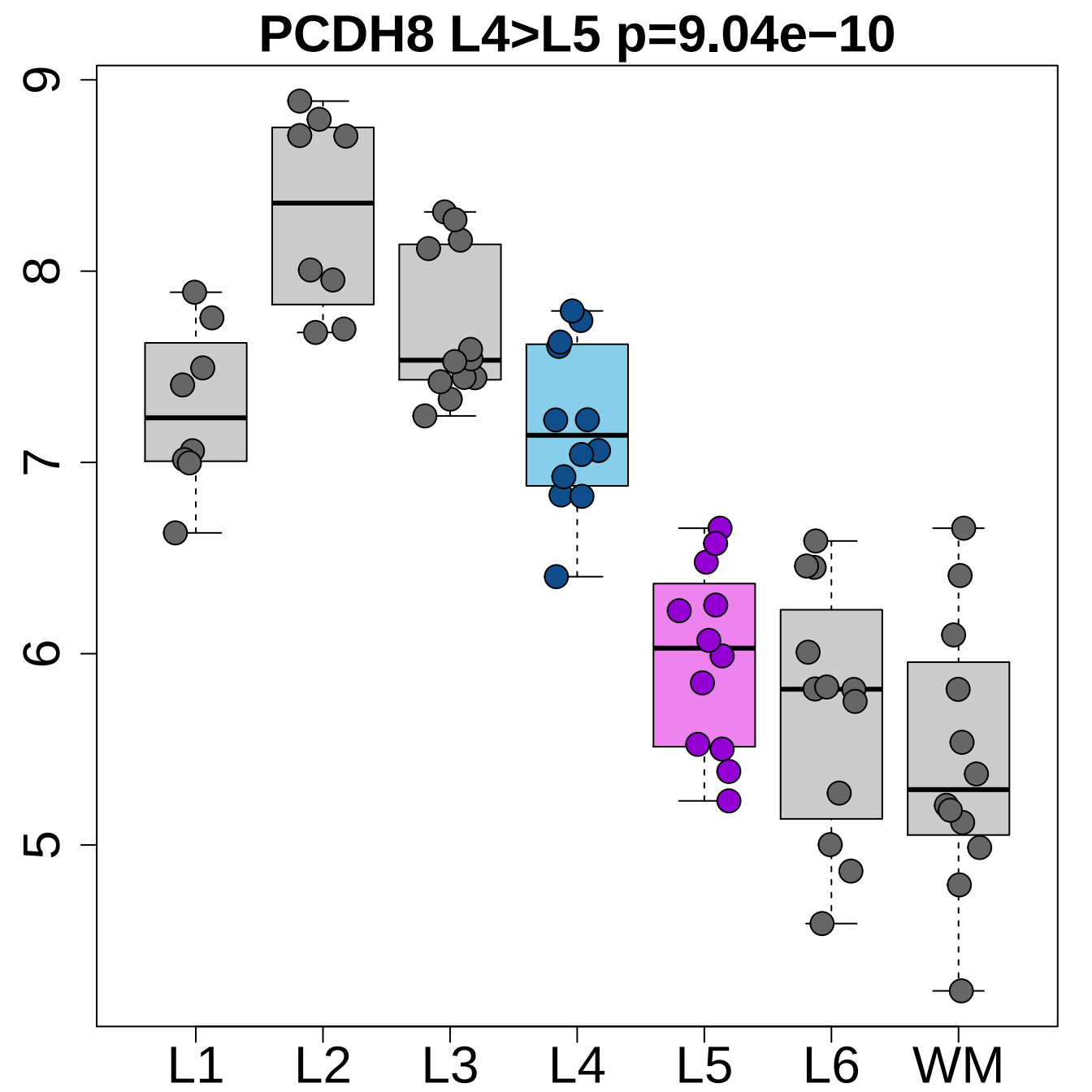
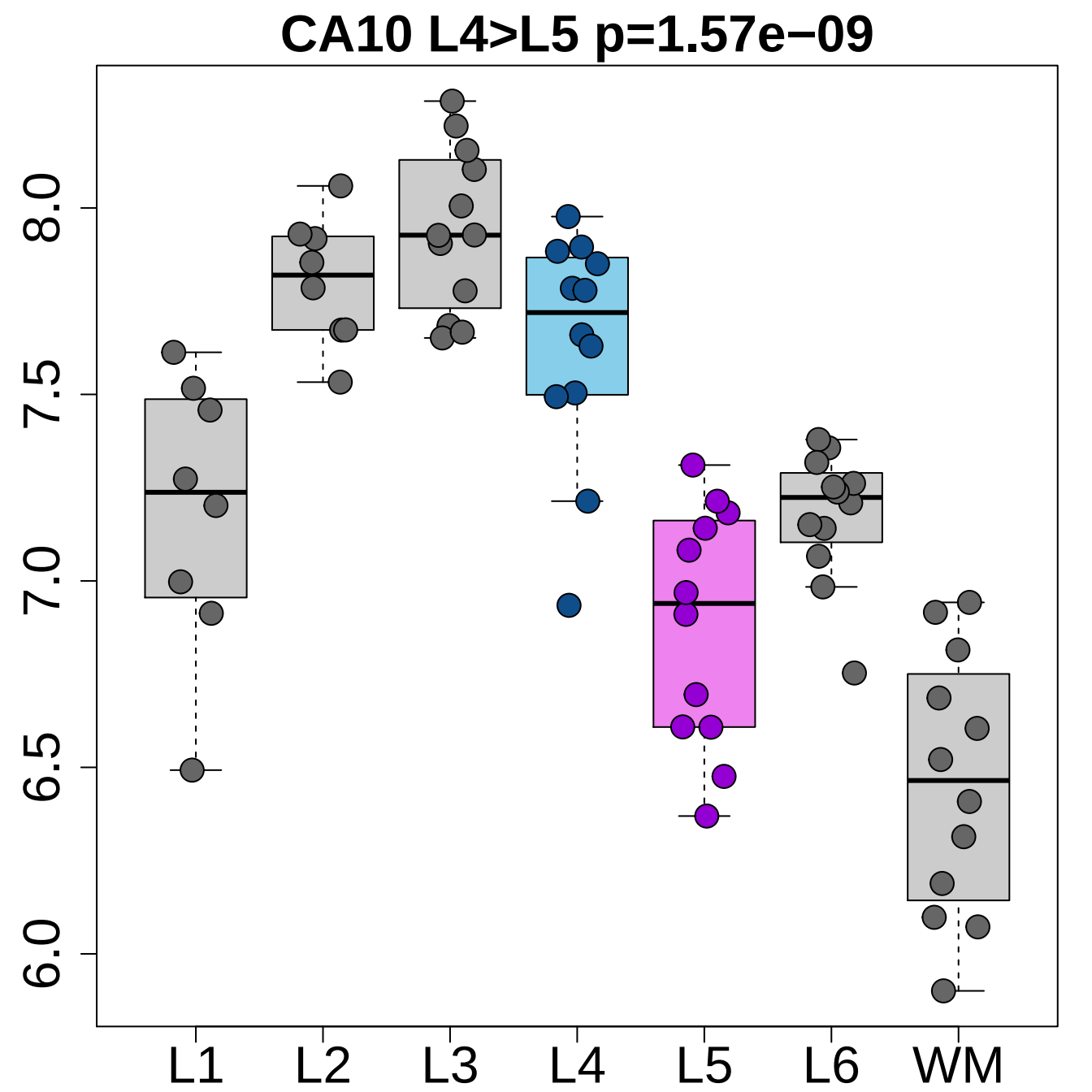
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


CUX2 L4>L5 p=2.61e−10
7
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM


PCDH8 L4>L5 p=9.04e−10
9
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


CA10 L4>L5 p=1.57e−09
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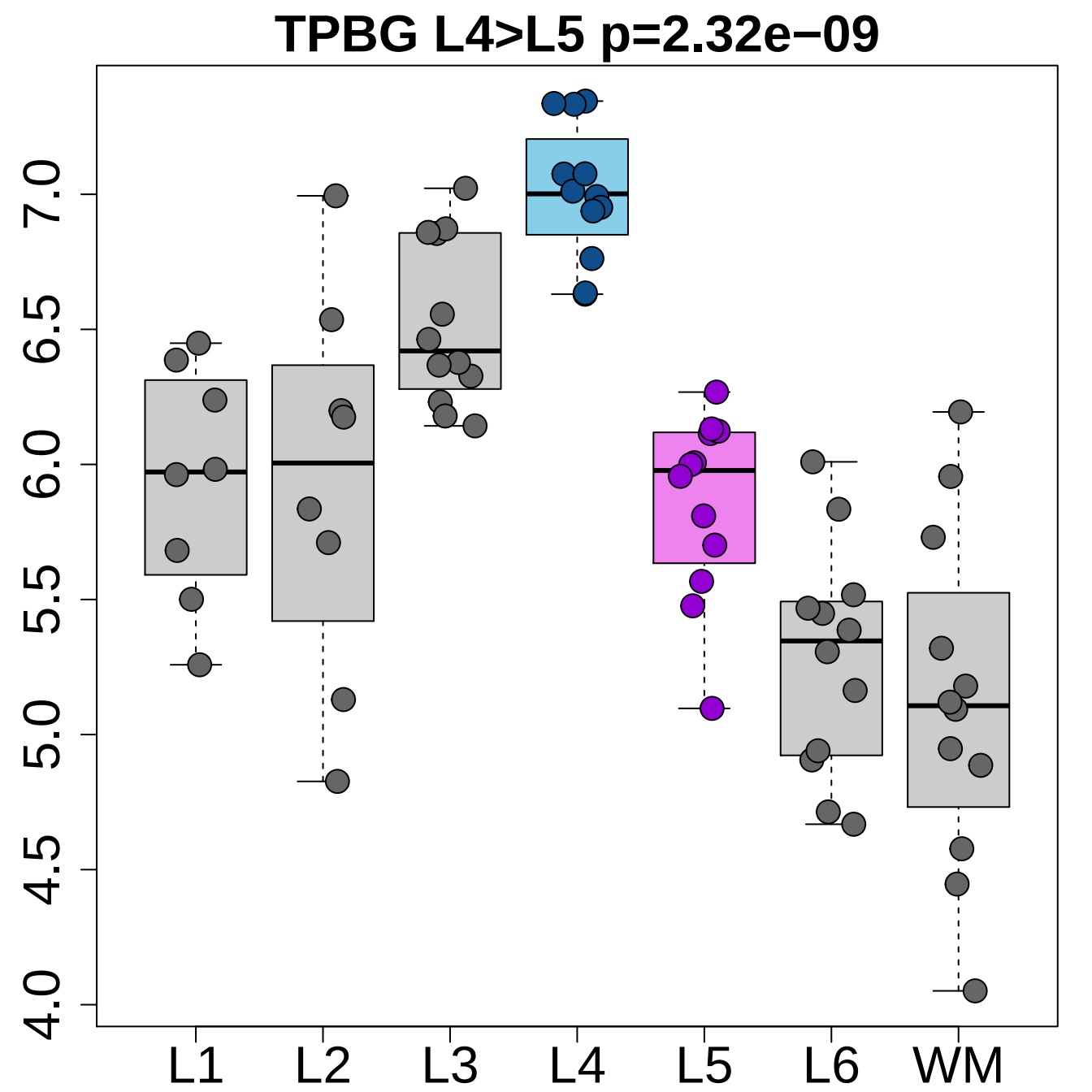
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


TPBG L4>L5 p=2.32e−09
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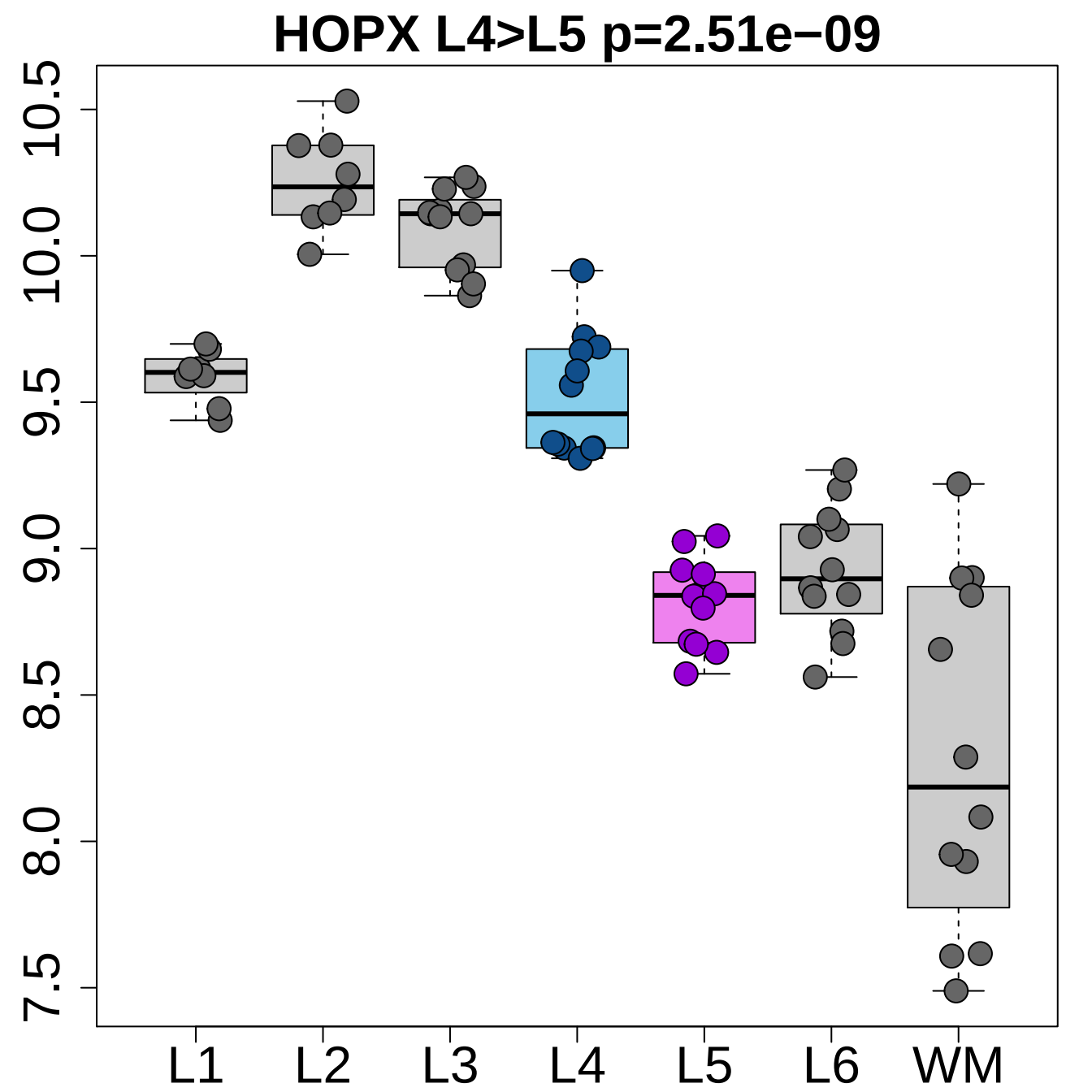
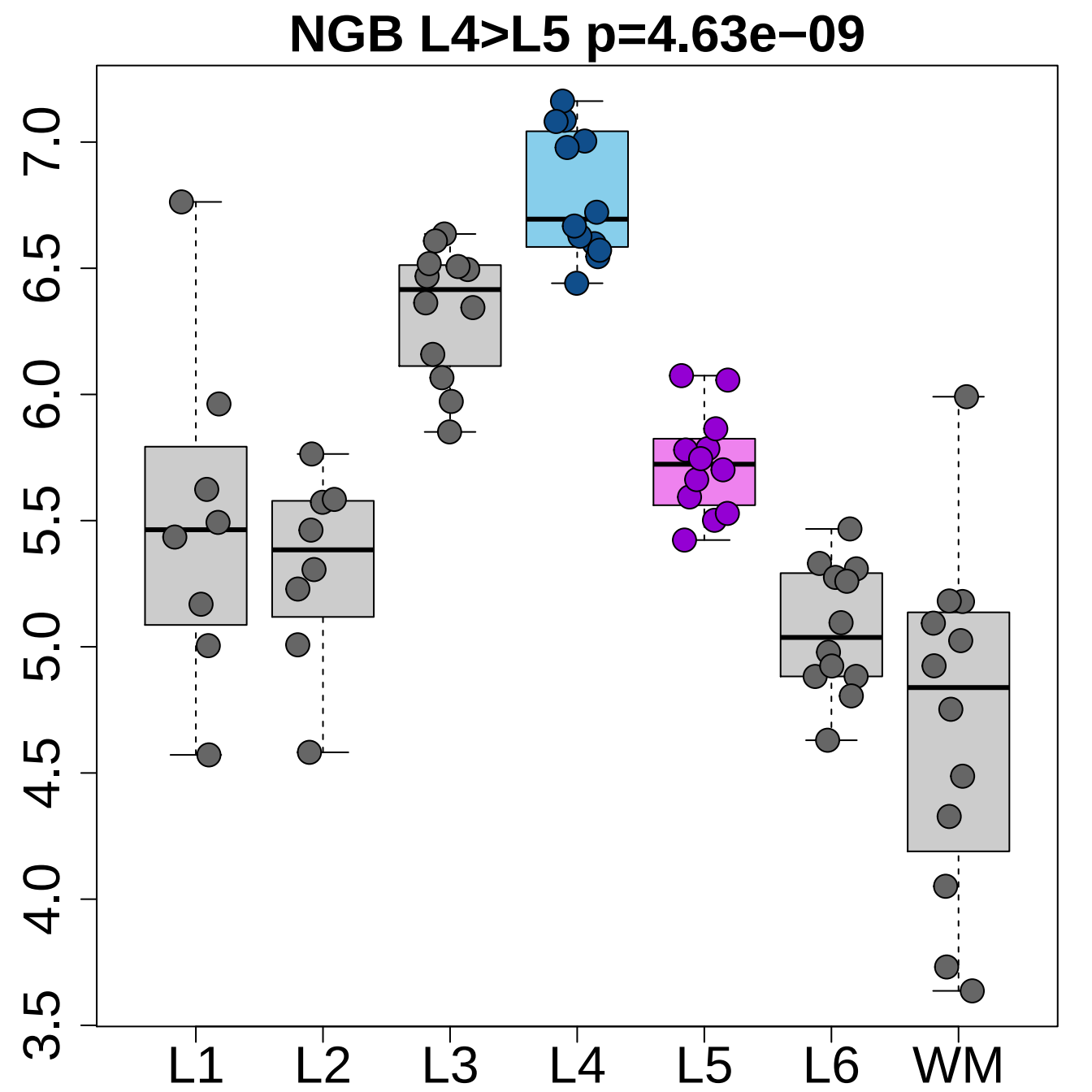
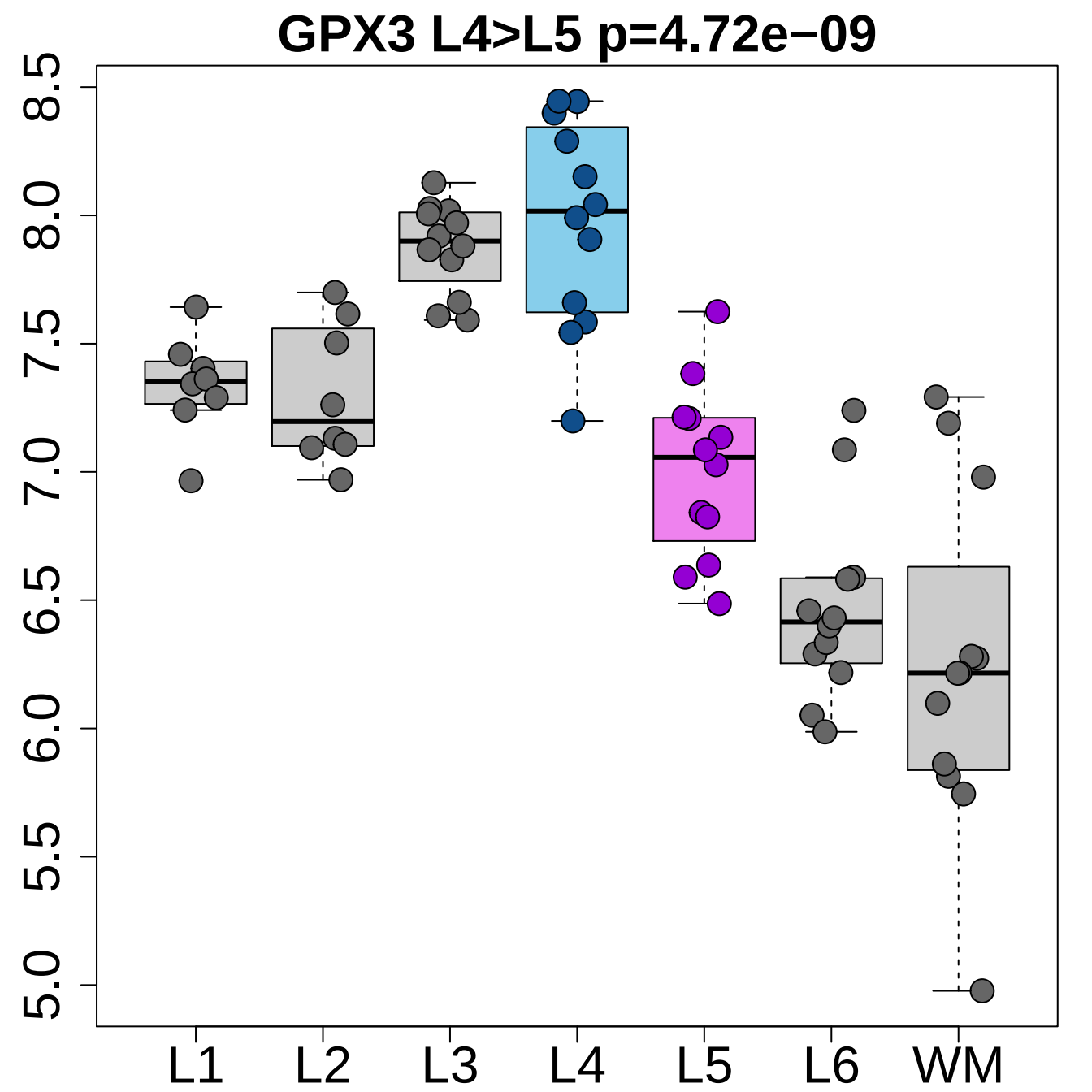
6.5
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM


HOPX L4>L5 p=2.51e−09
10.5
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


NGB L4>L5 p=4.63e−09
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


GPX3 L4>L5 p=4.72e−09
8.5
8.0
7.5
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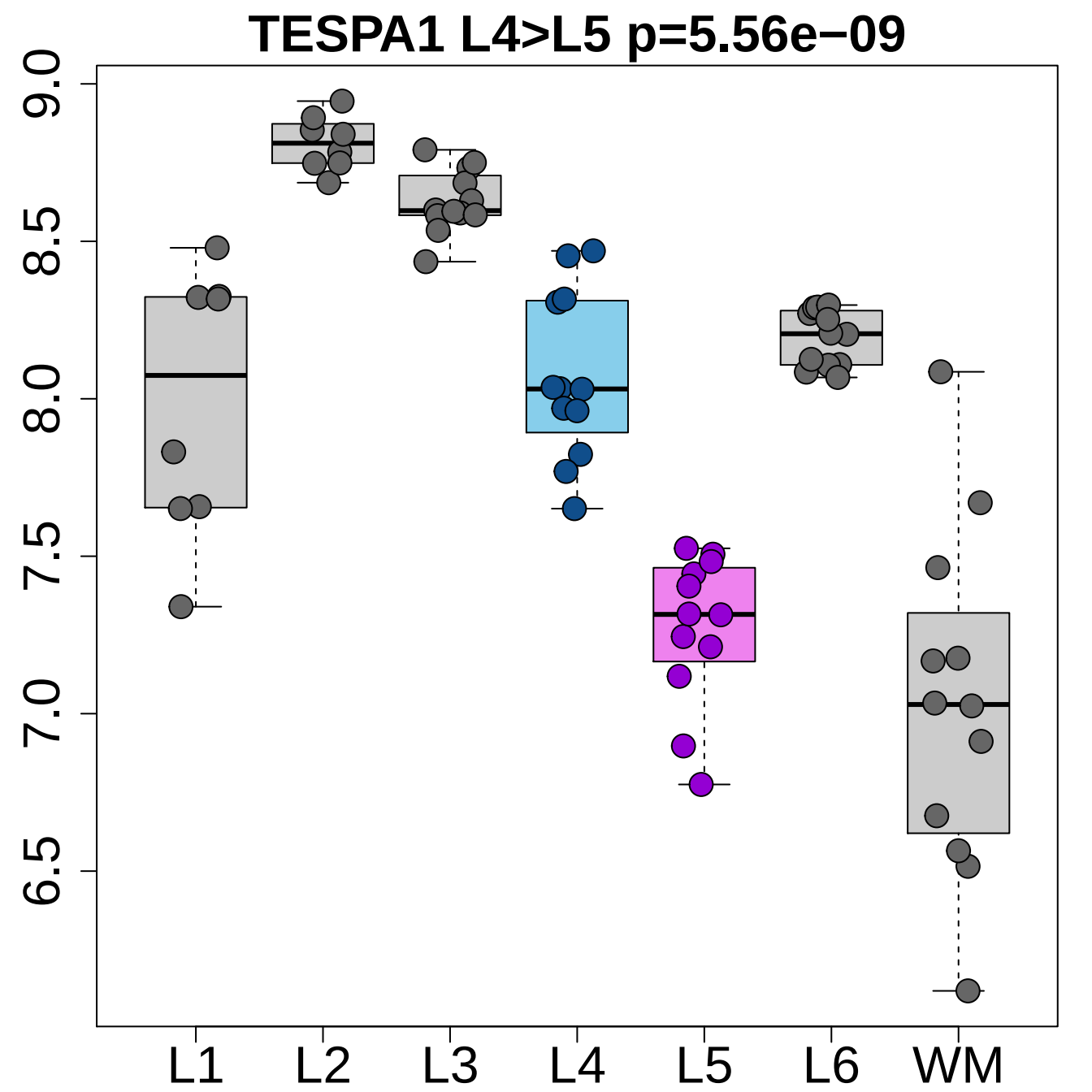
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


TESPA1 L4>L5 p=5.56e−09
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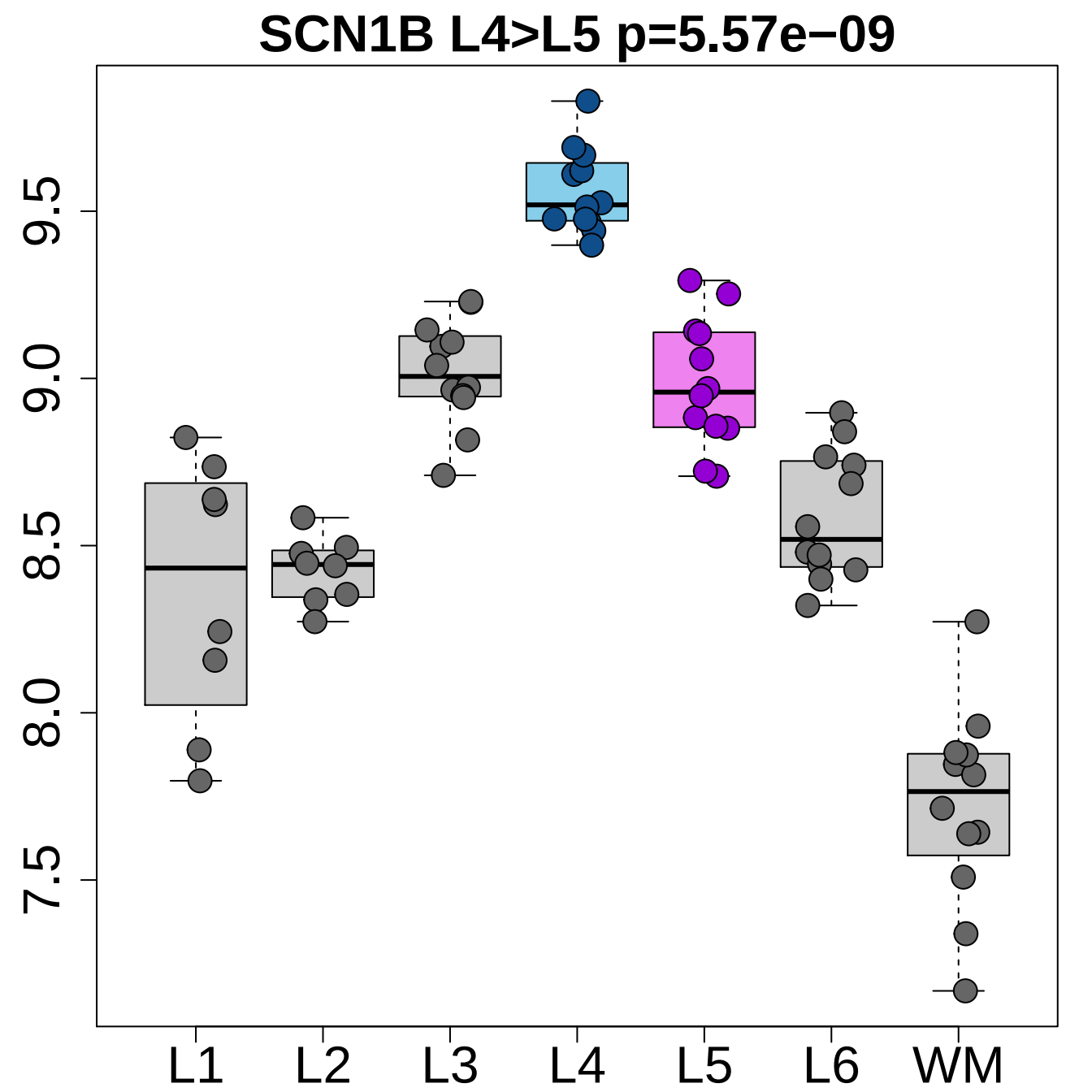
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


SCN1B L4>L5 p=5.57e−09
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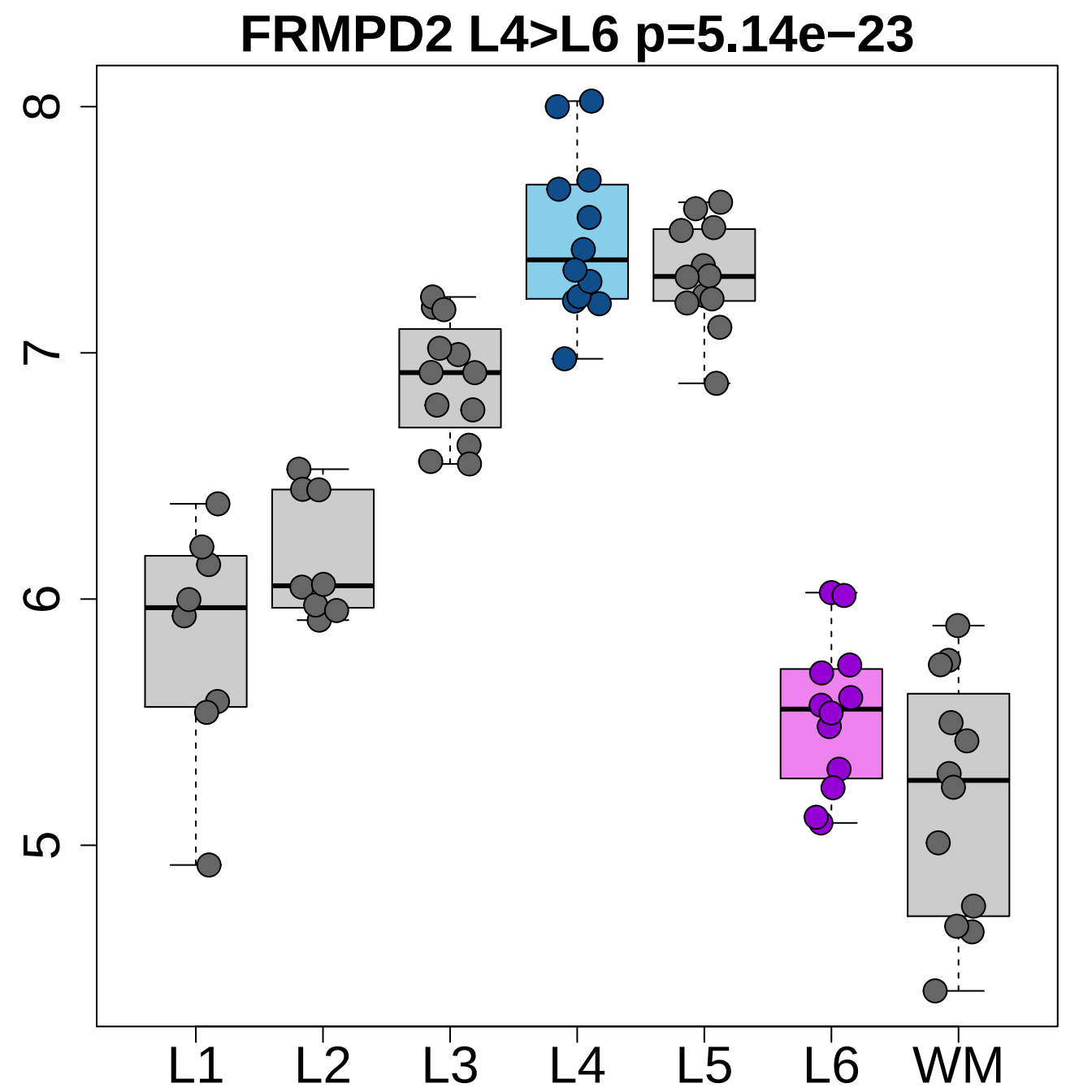
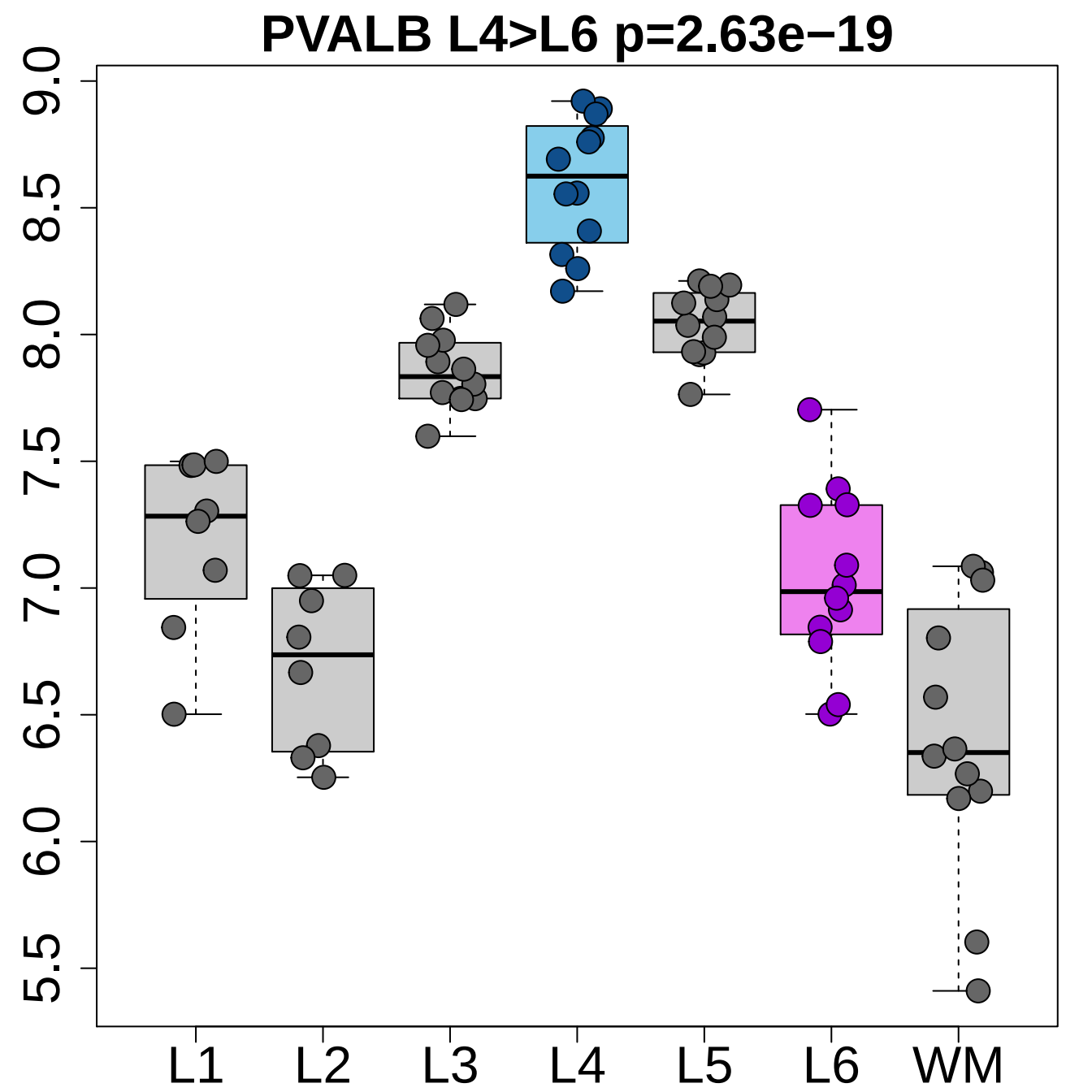
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


FRMPD2 L4>L6 p=5.14e−23
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


PVALB L4>L6 p=2.63e−19
9.0
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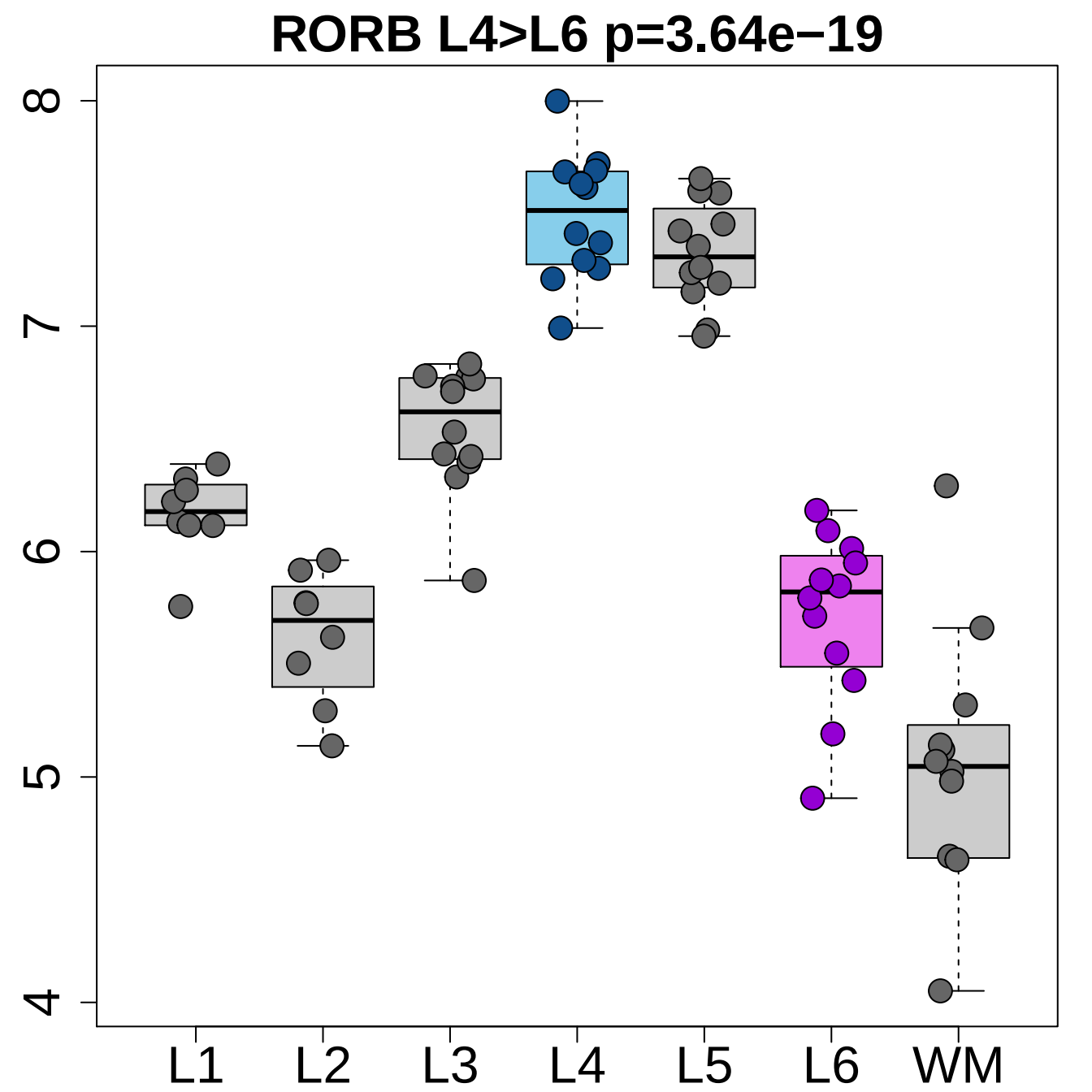
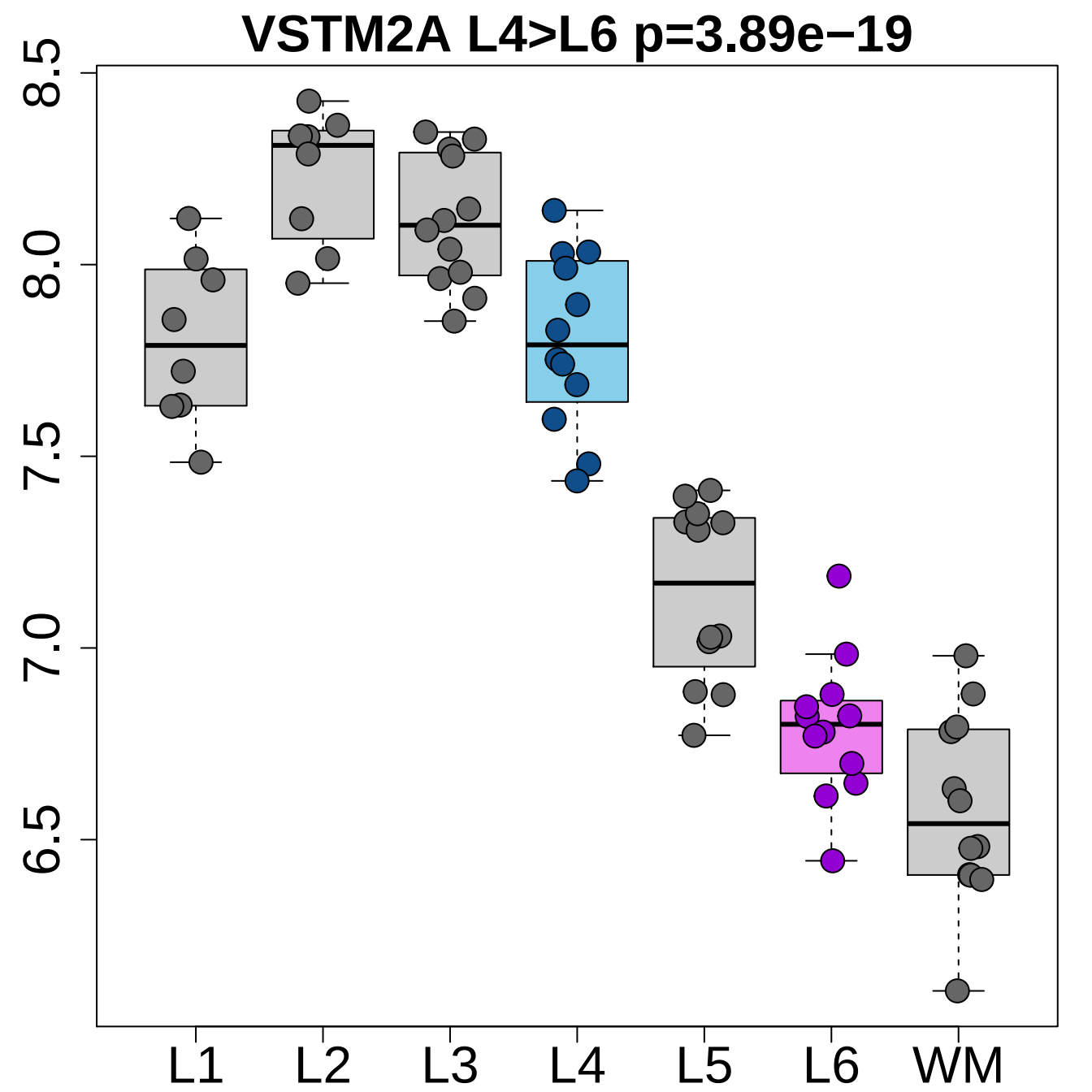
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


RORB L4>L6 p=3.64e−19
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


VSTM2A L4>L6 p=3.89e−19
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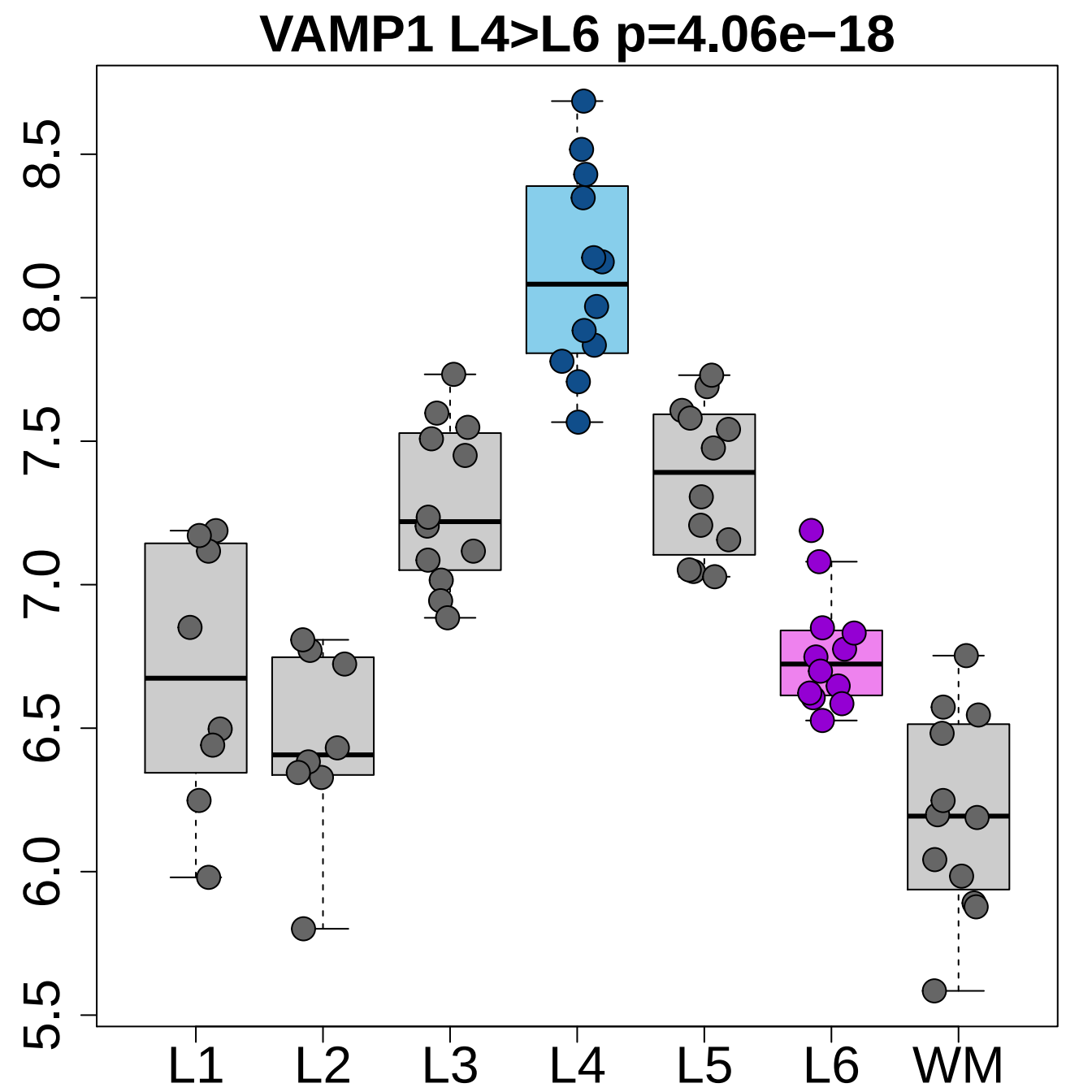
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


VAMP1 L4>L6 p=4.06e−18
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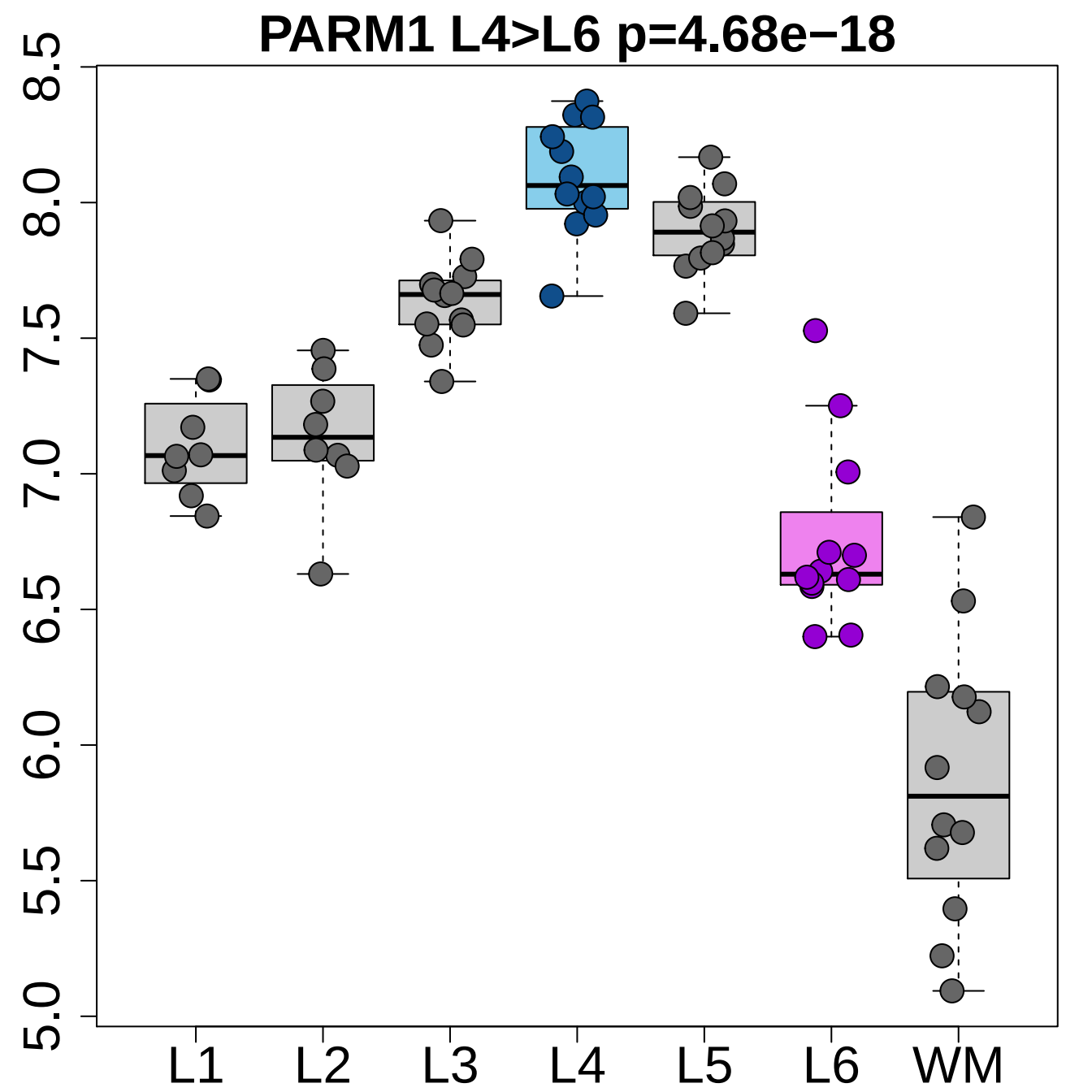
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


PARM1 L4>L6 p=4.68e−18
8.5
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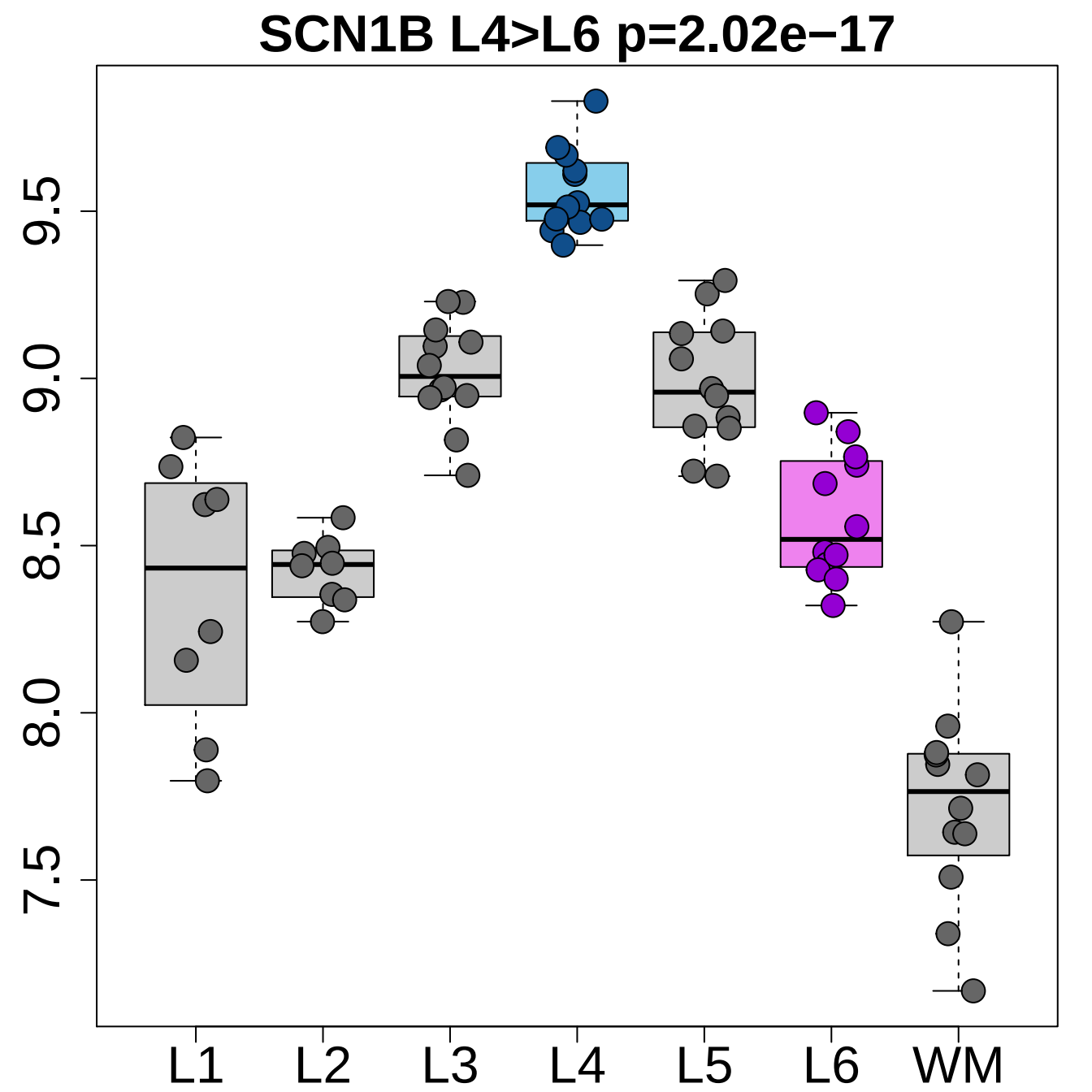
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


SCN1B L4>L6 p=2.02e−17
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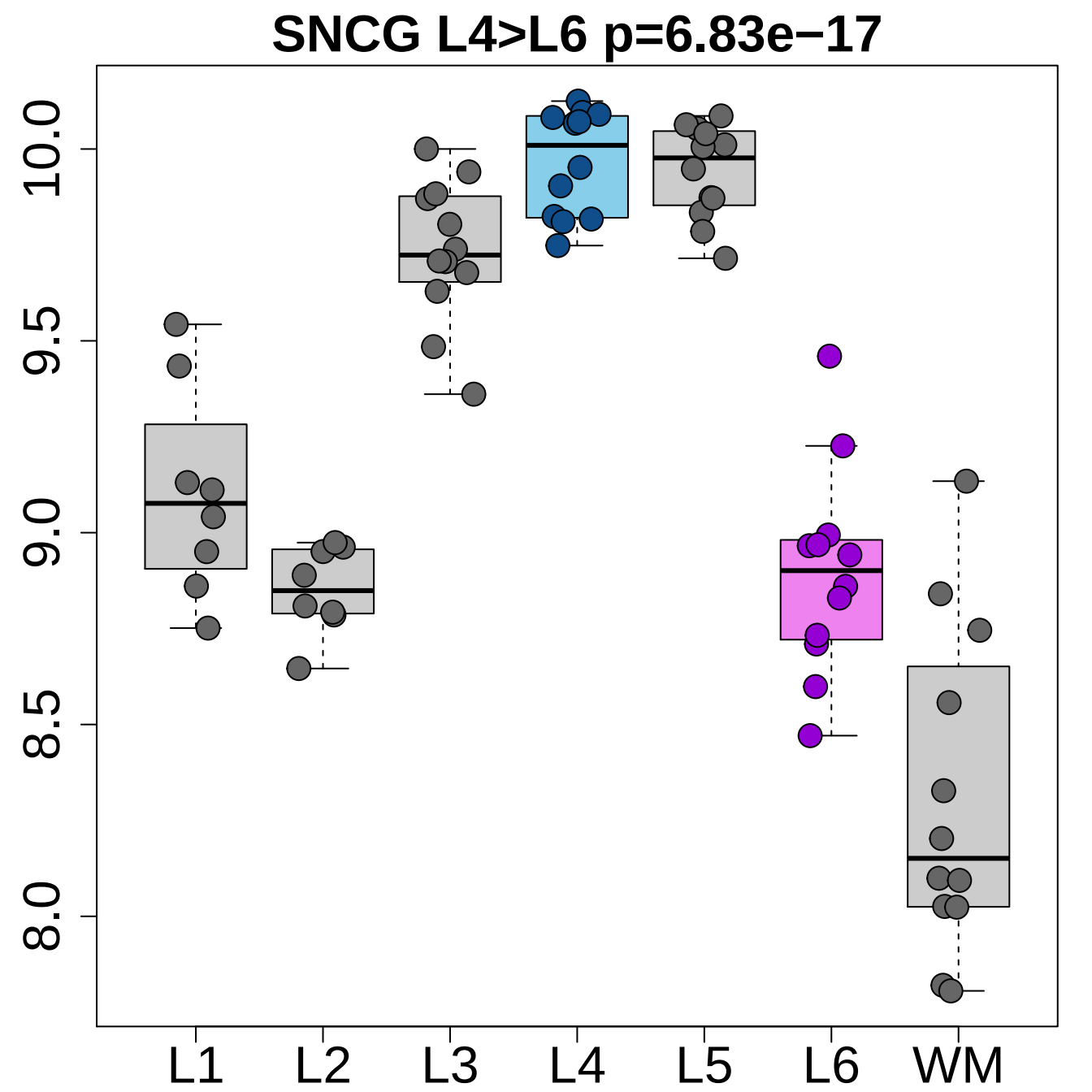
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


SNCG L4>L6 p=6.83e−17
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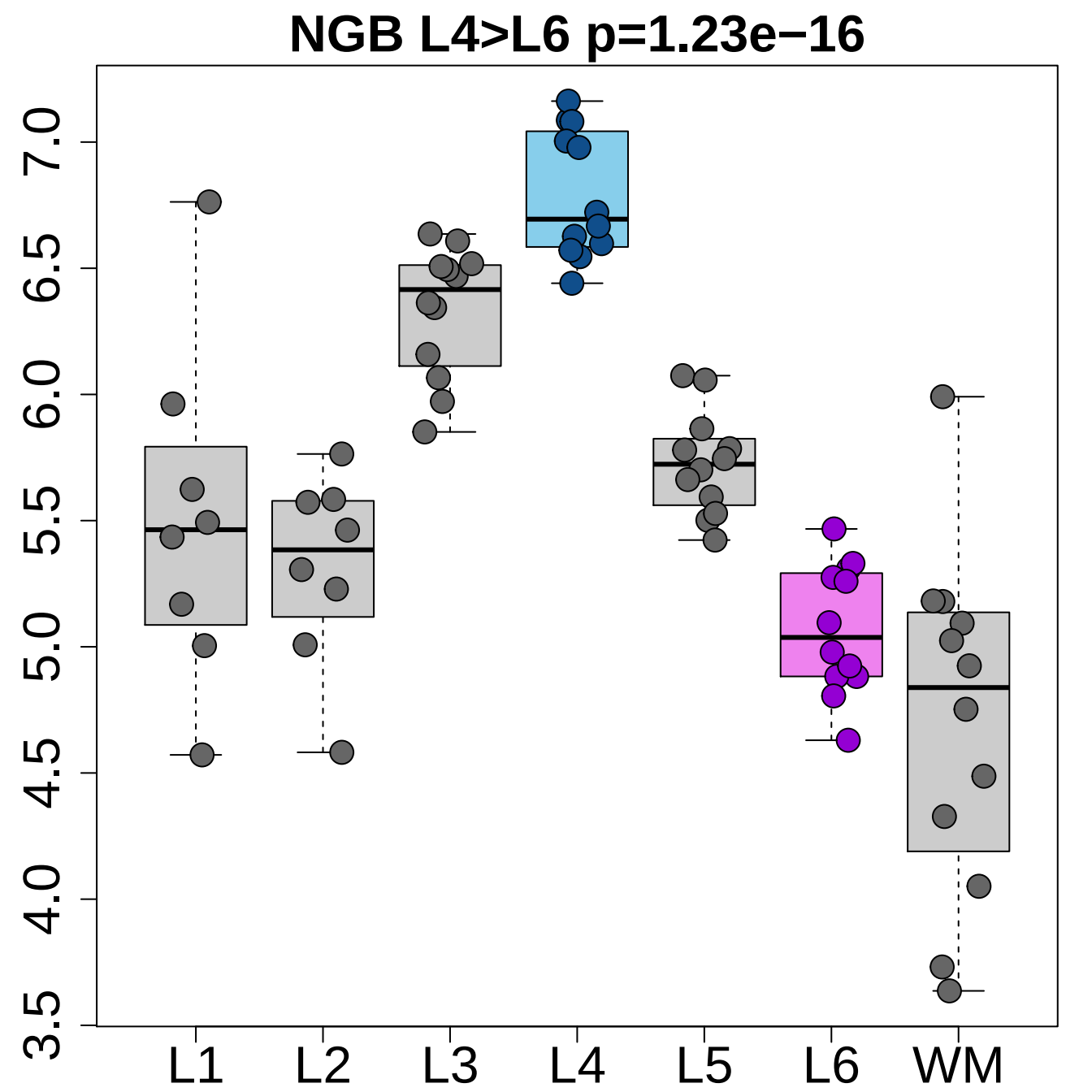
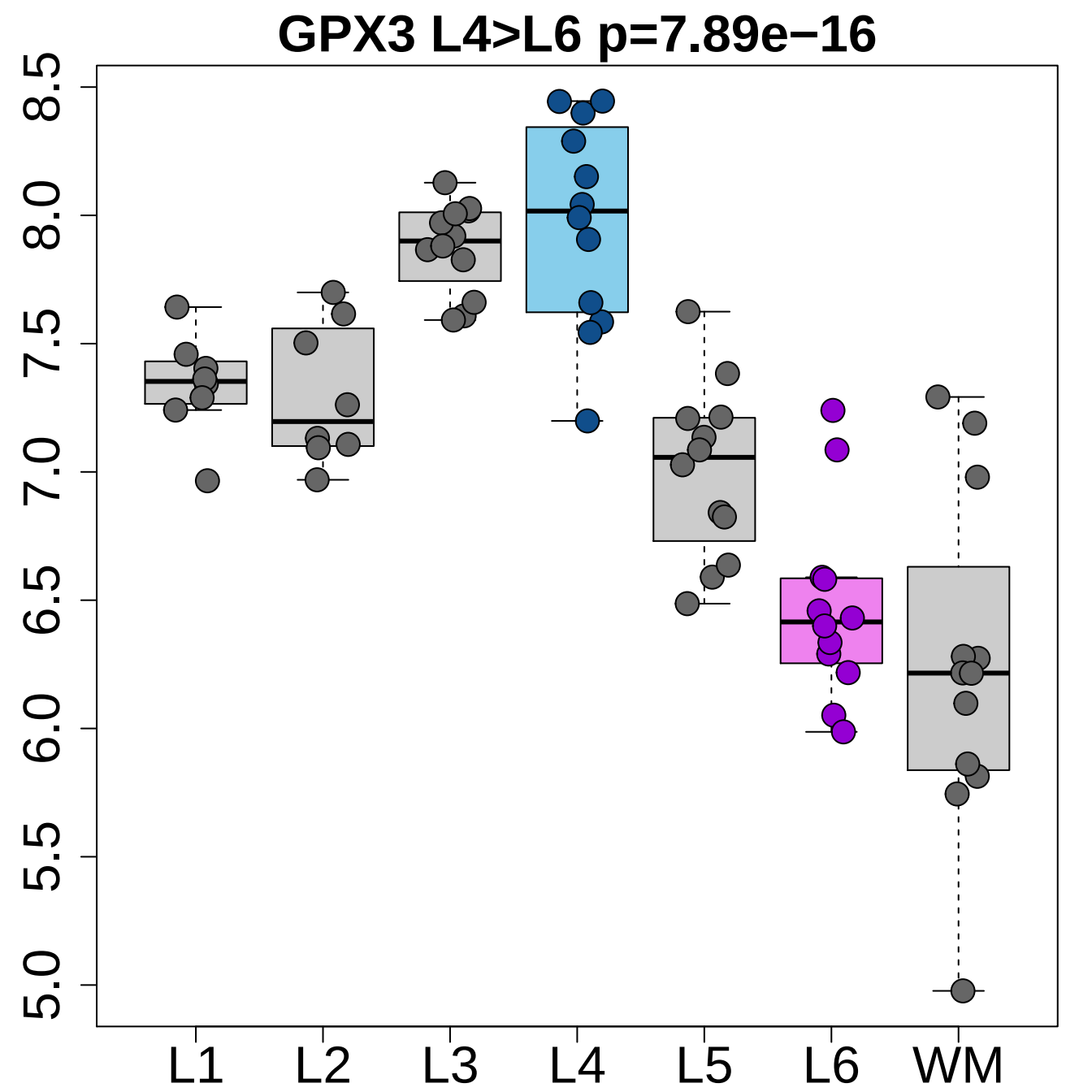
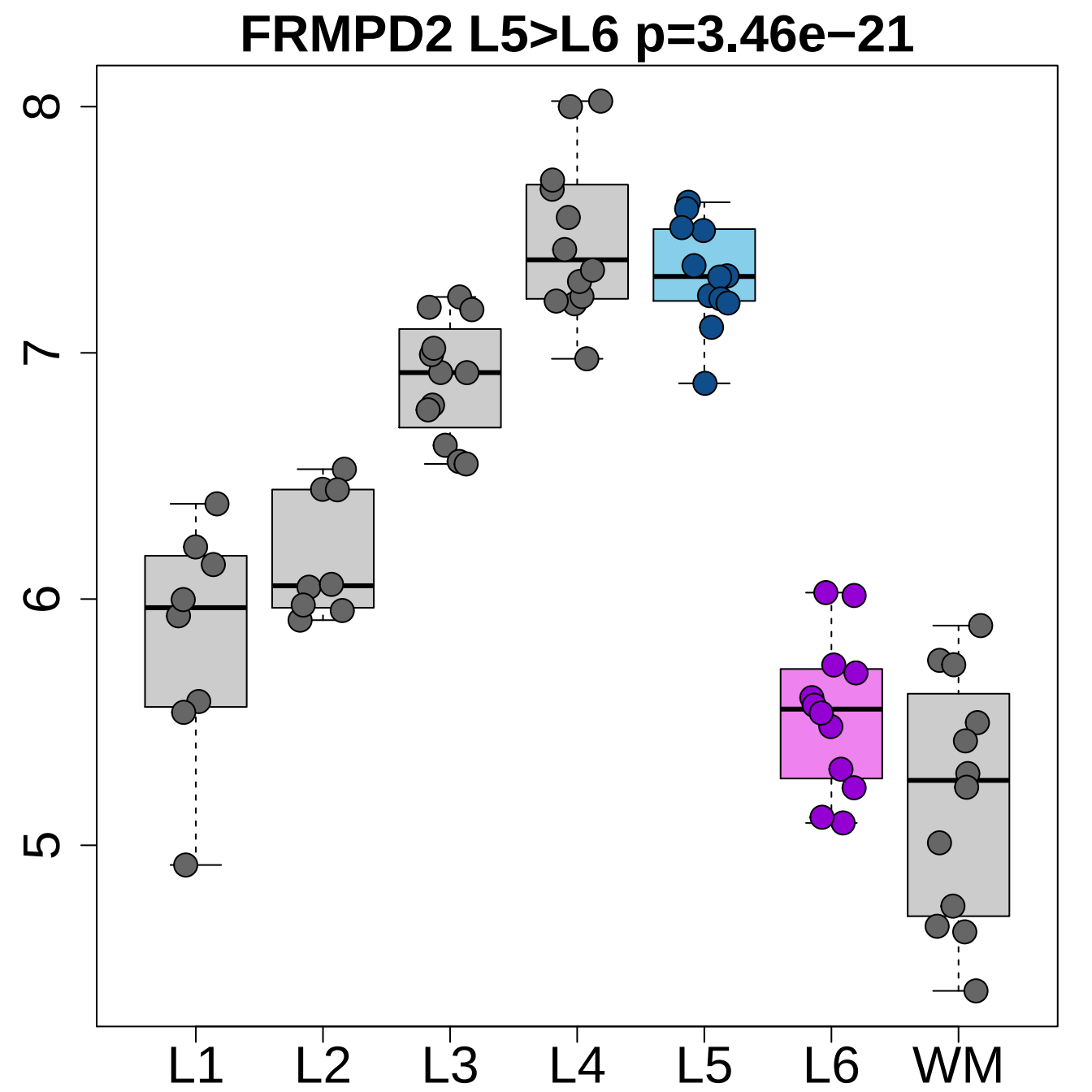
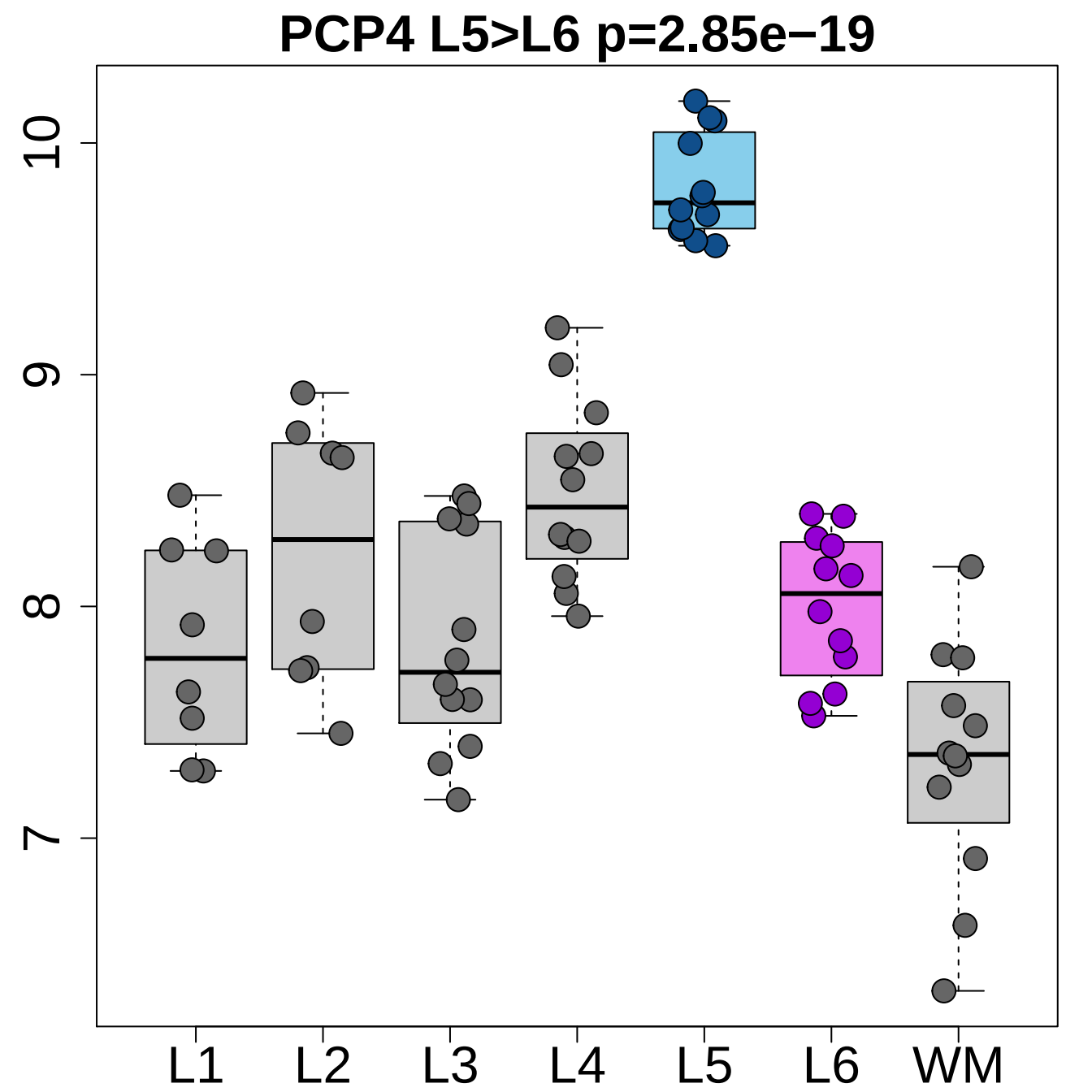
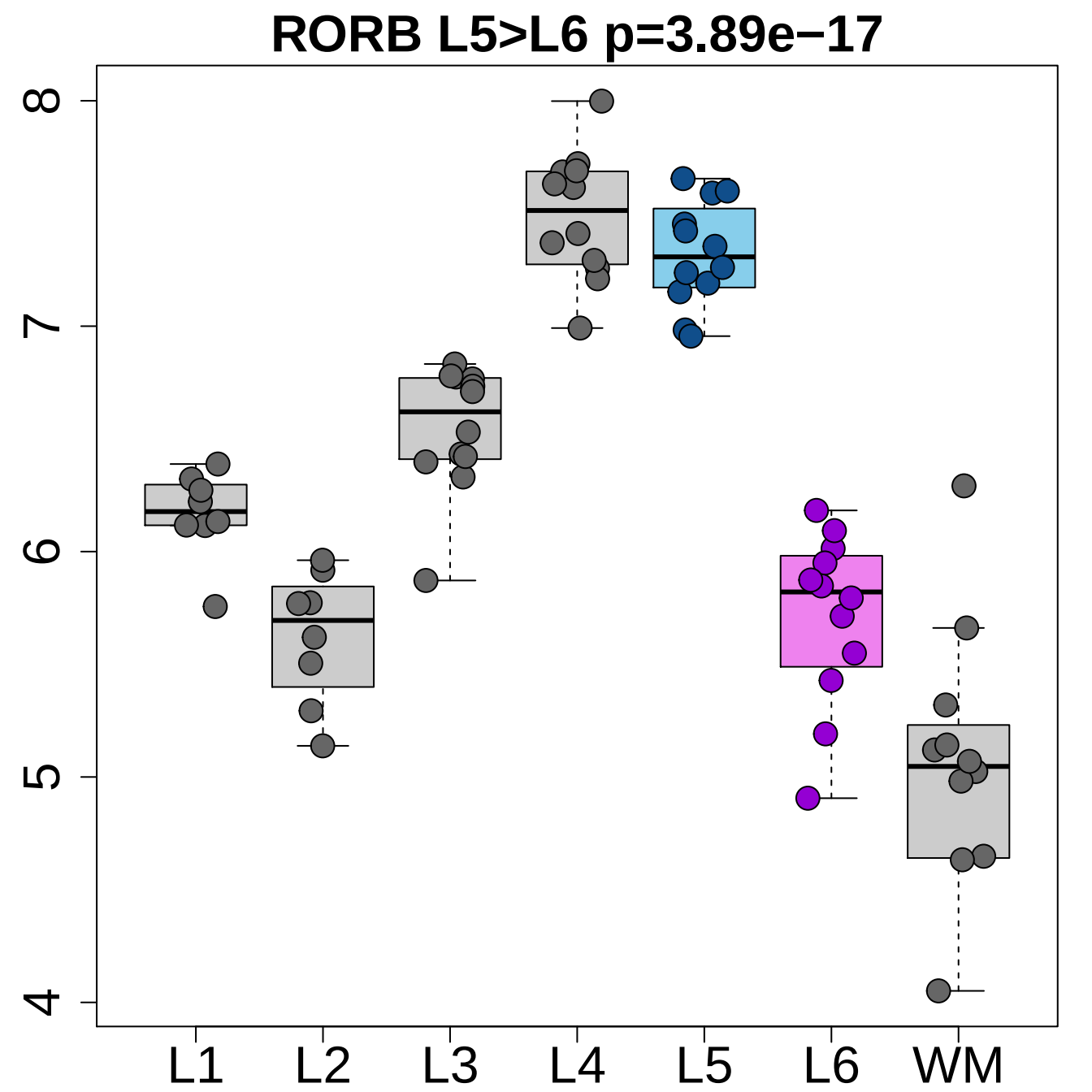
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

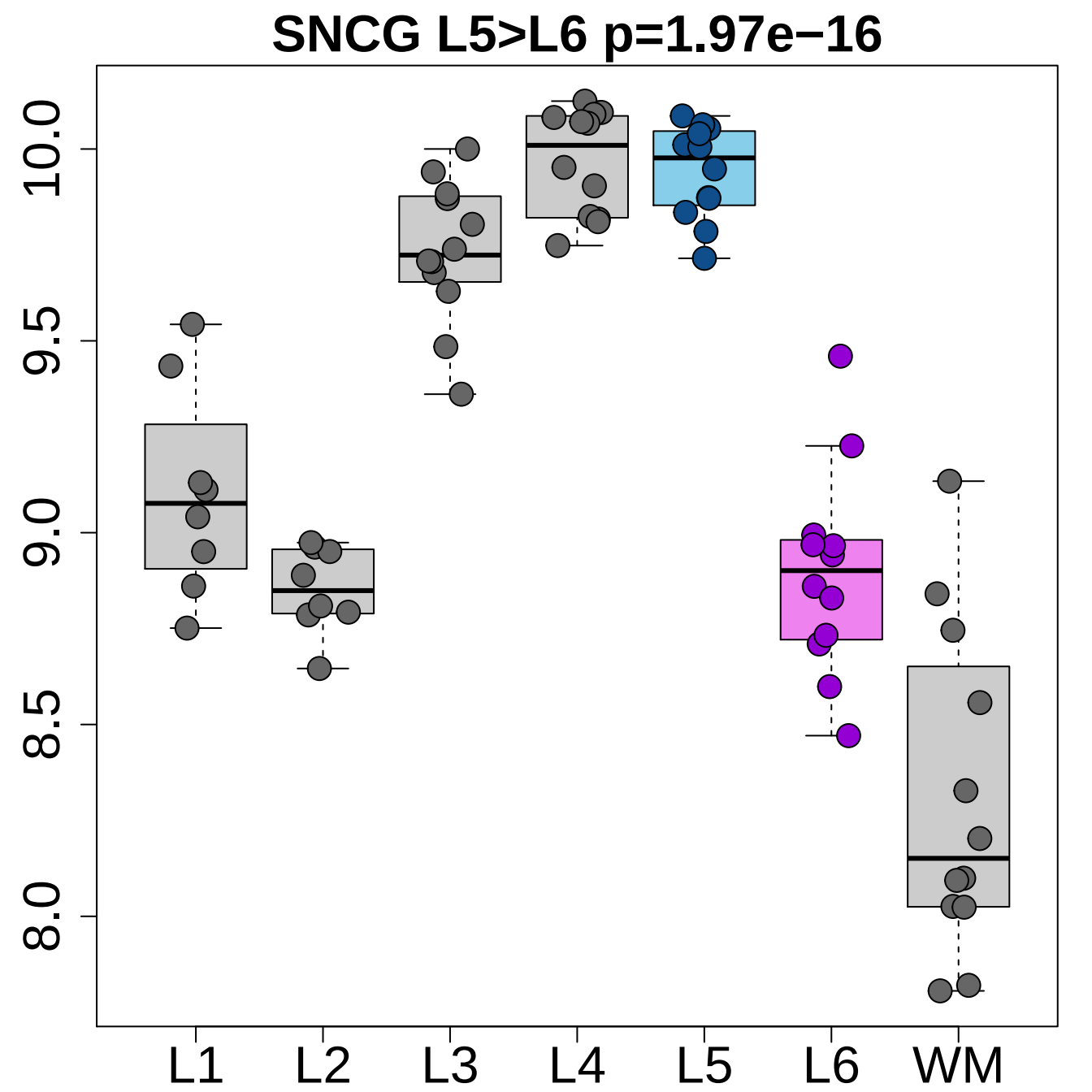

NGB L4>L6 p=1.23e−16
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM

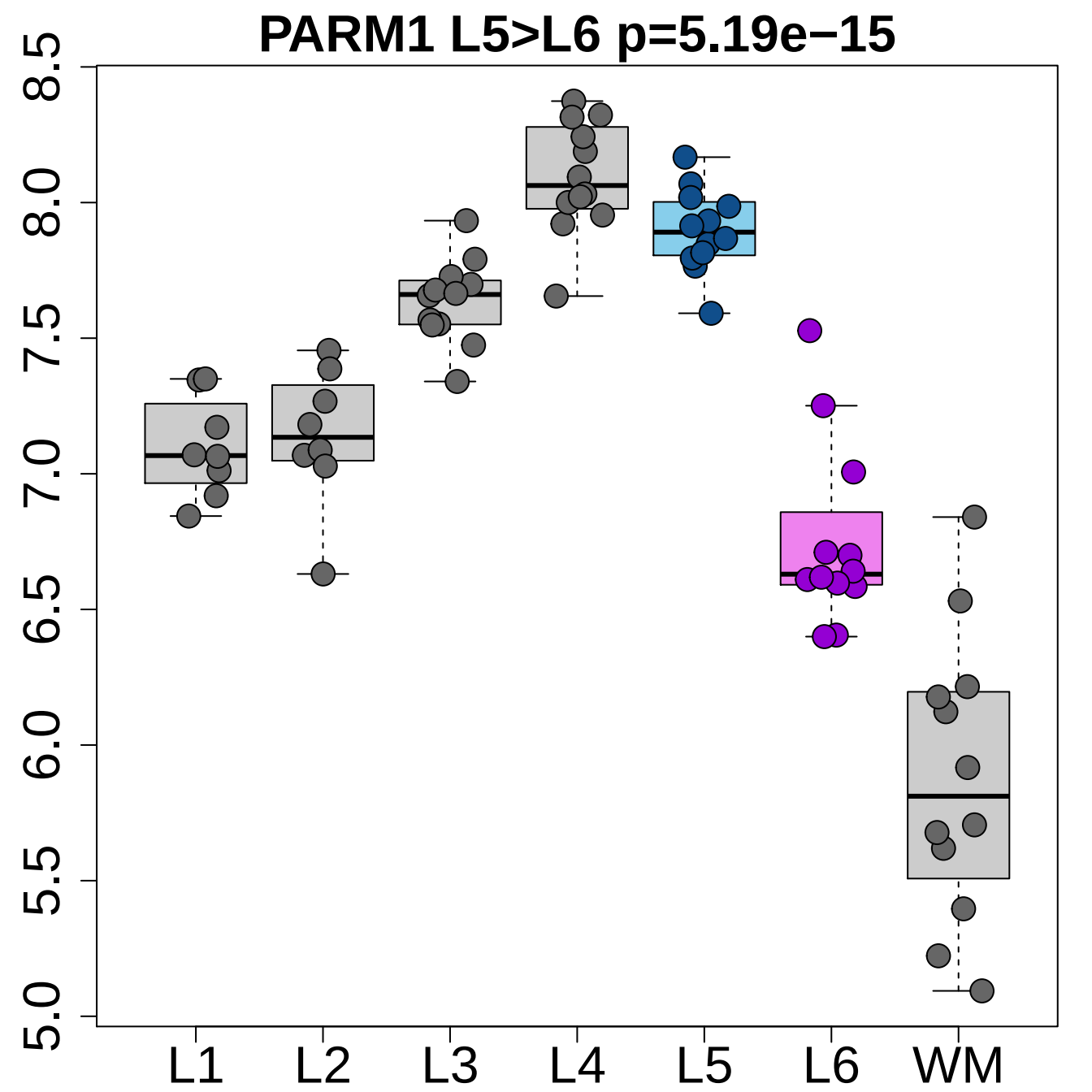

GPX3 L4>L6 p=7.89e−16
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

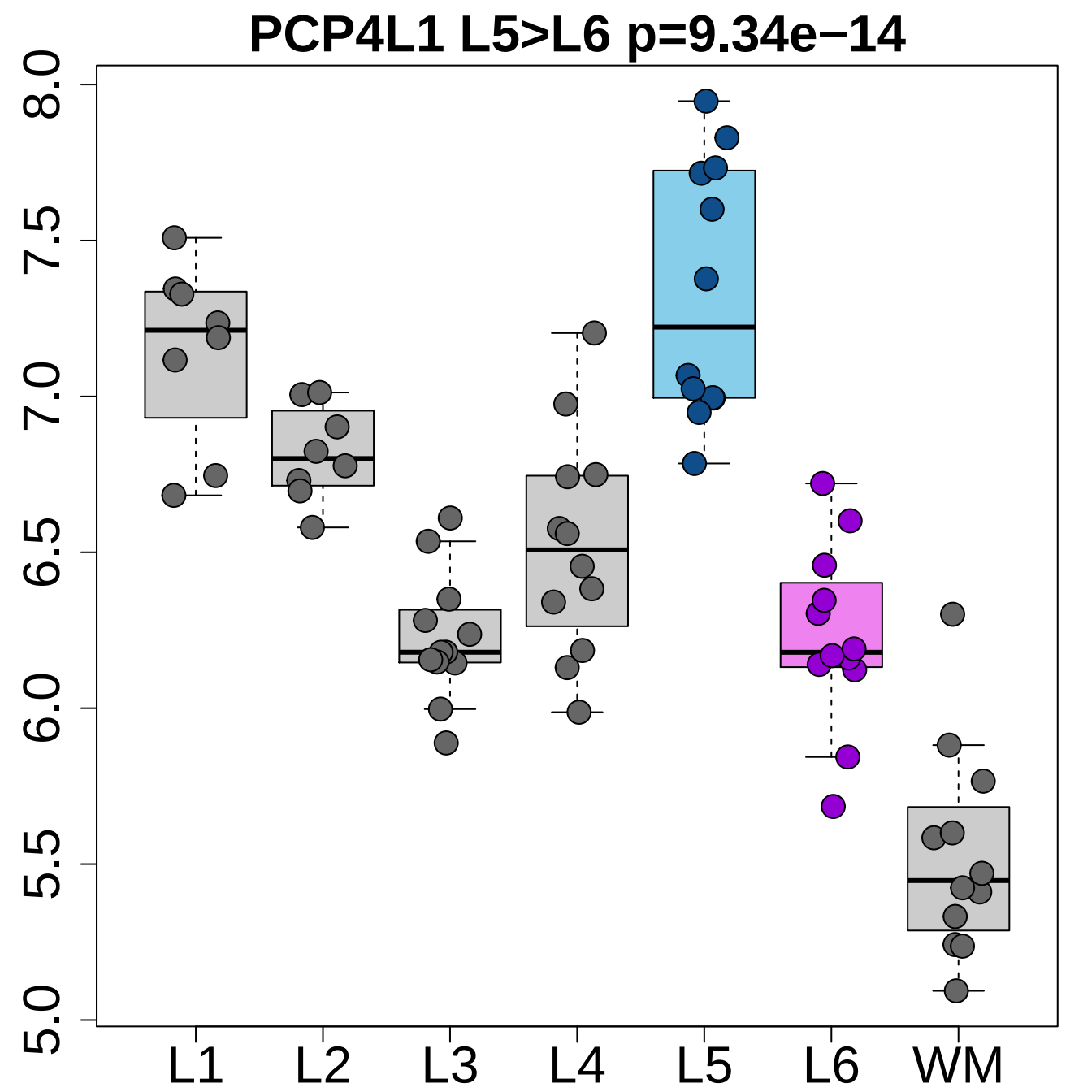

FRMPD2 L5>L6 p=3.46e−21
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

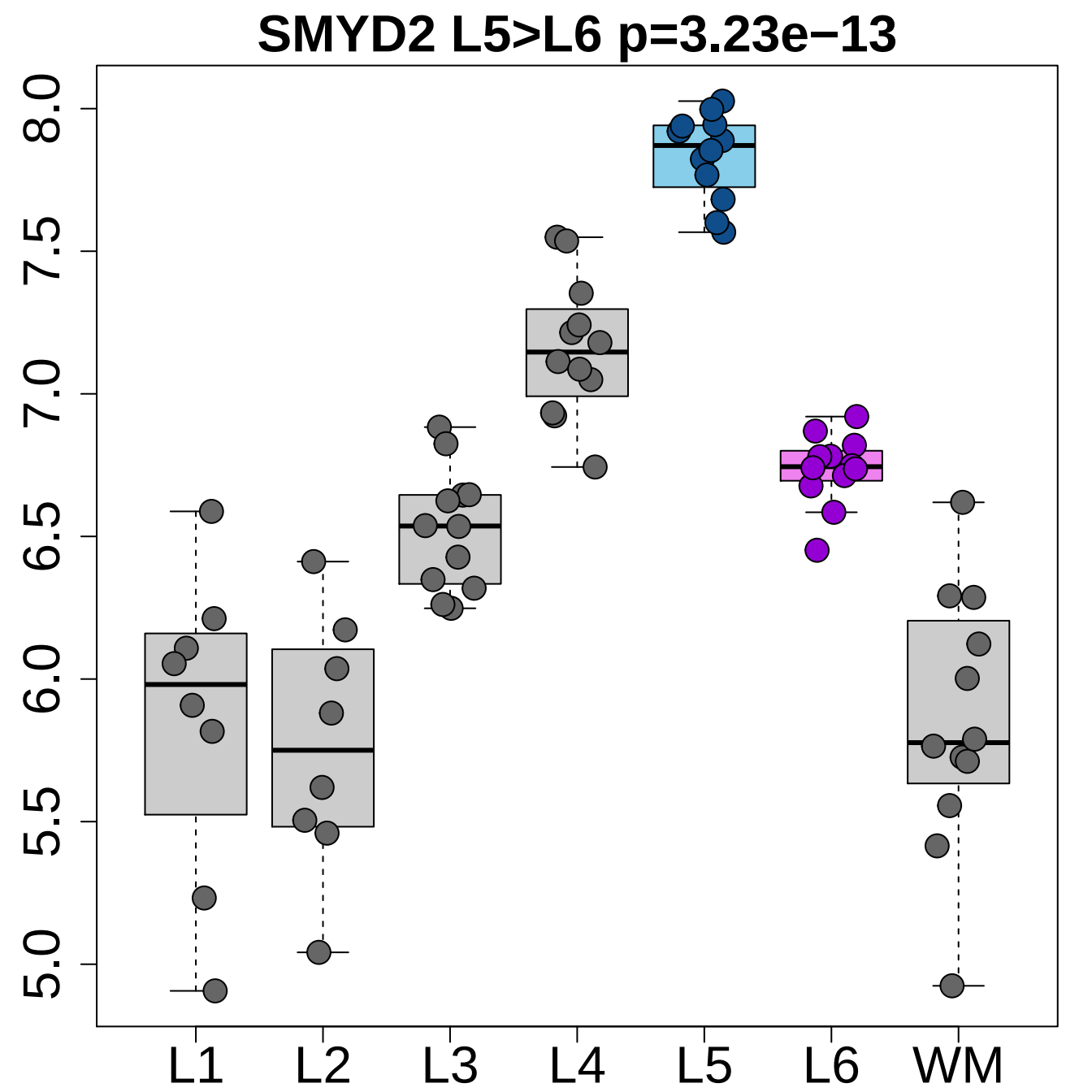

PCP4 L5>L6 p=2.85e−19
10
9
8
7
L1
L2
L3
L4
L5
L6
WM

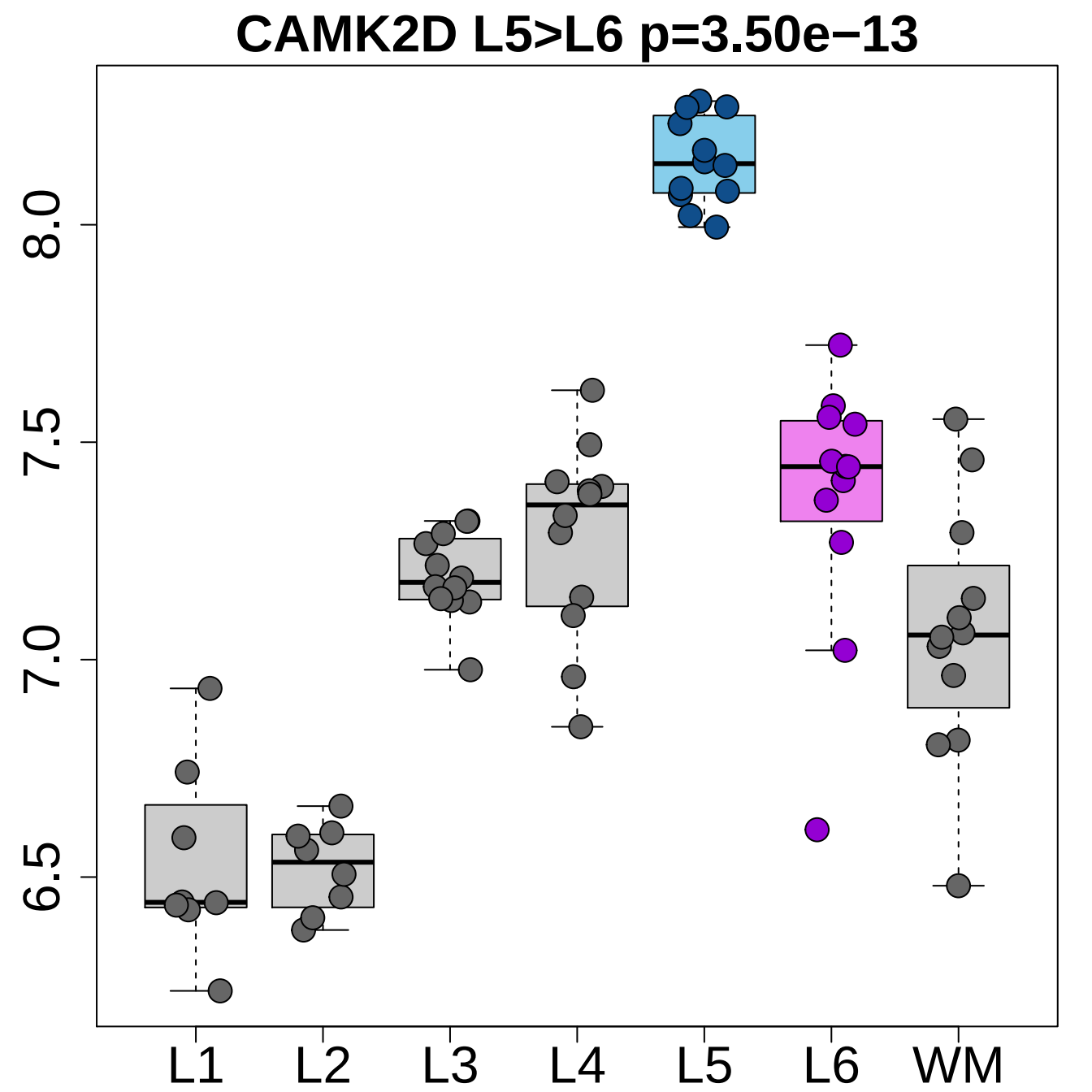

RORB L5>L6 p=3.89e−17
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

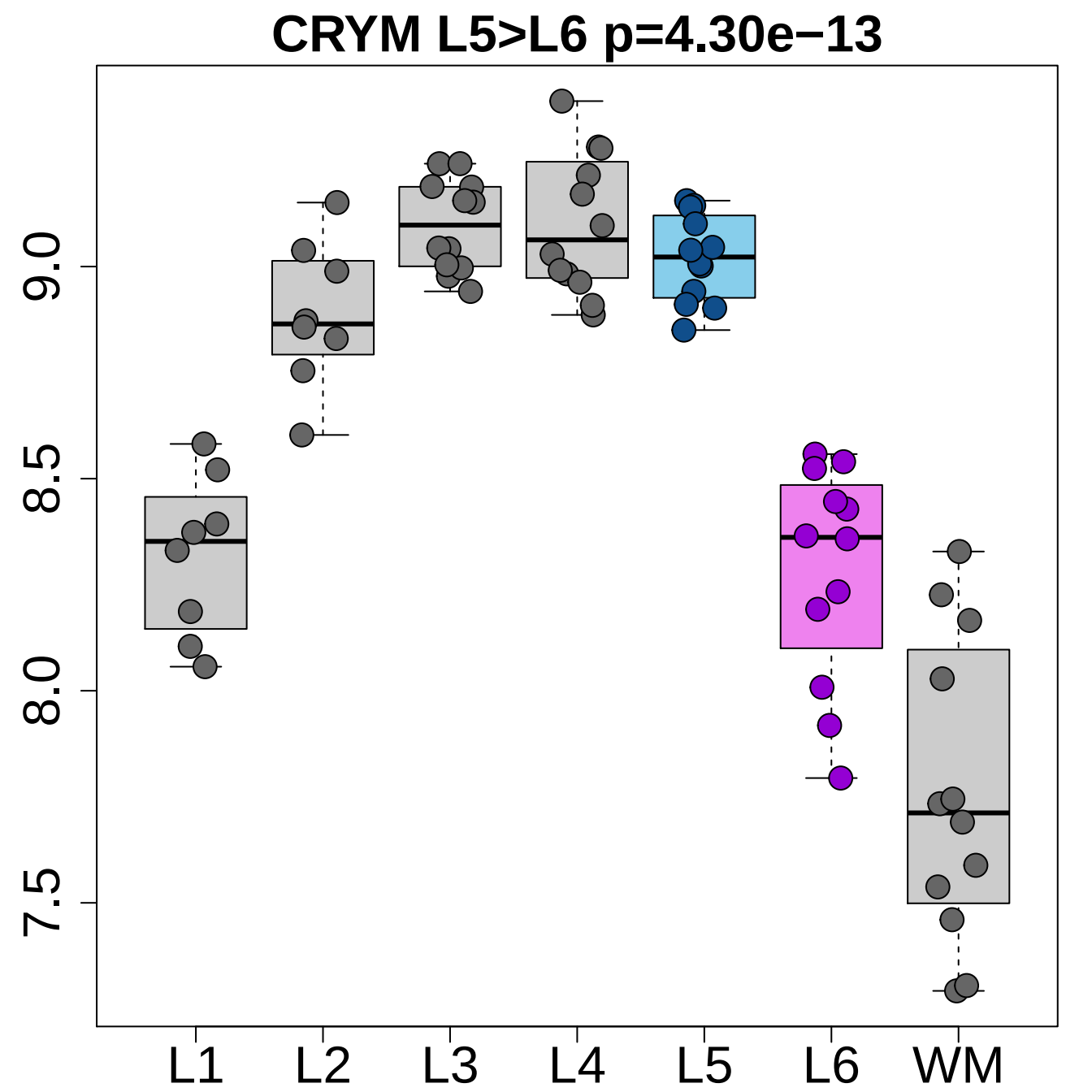

SNCG L5>L6 p=1.97e−16
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

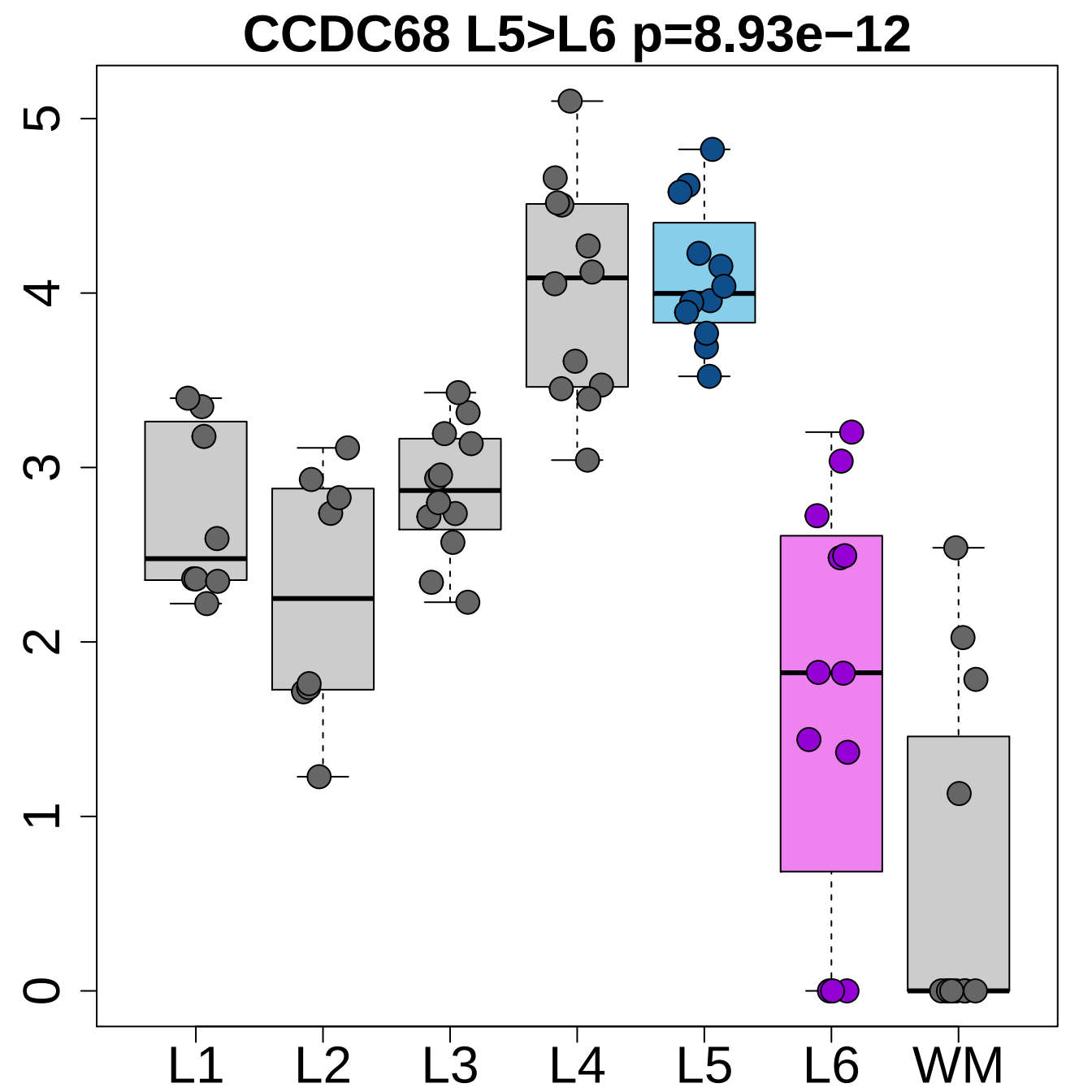

PARM1 L5>L6 p=5.19e−15
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

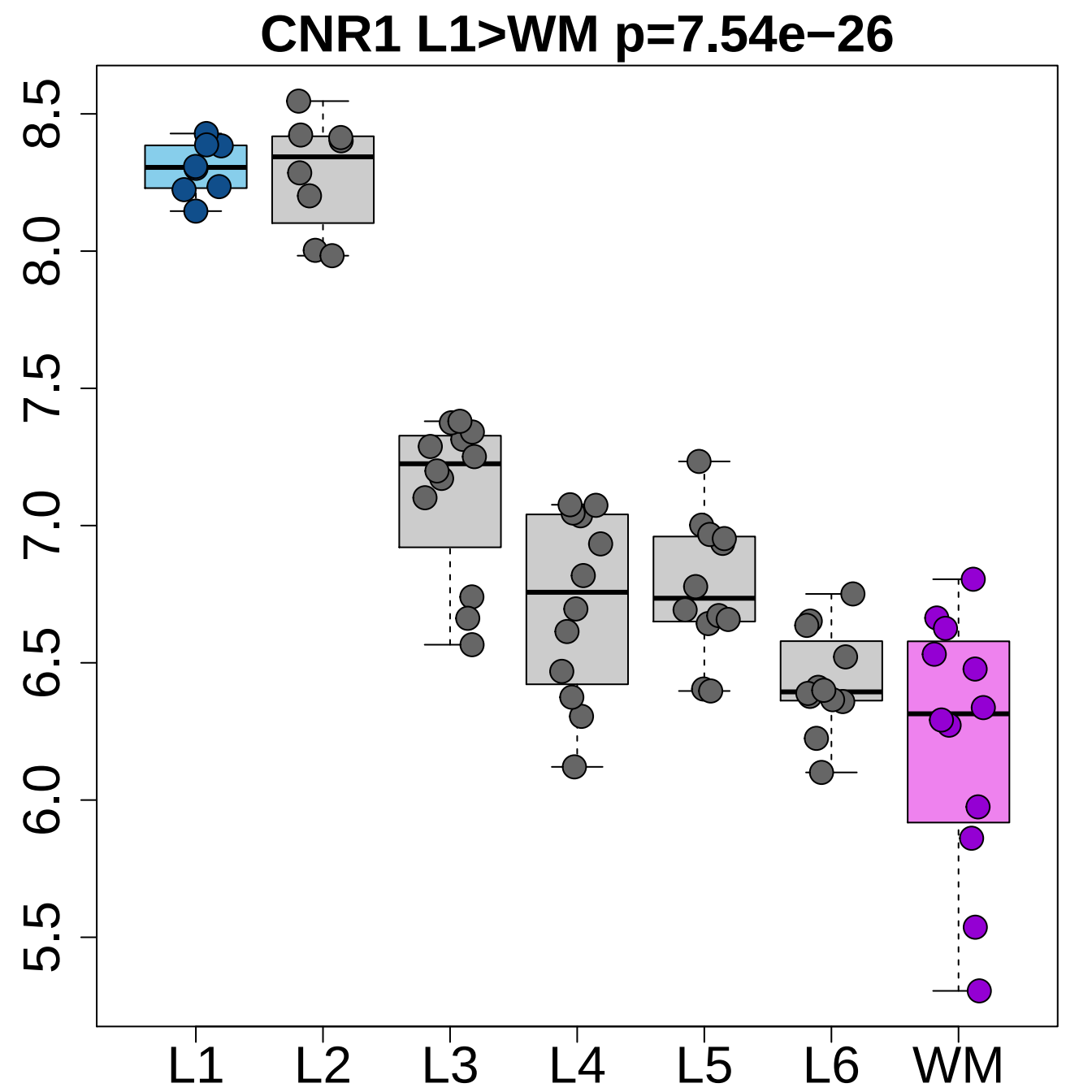

PCP4L1 L5>L6 p=9.34e−14
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

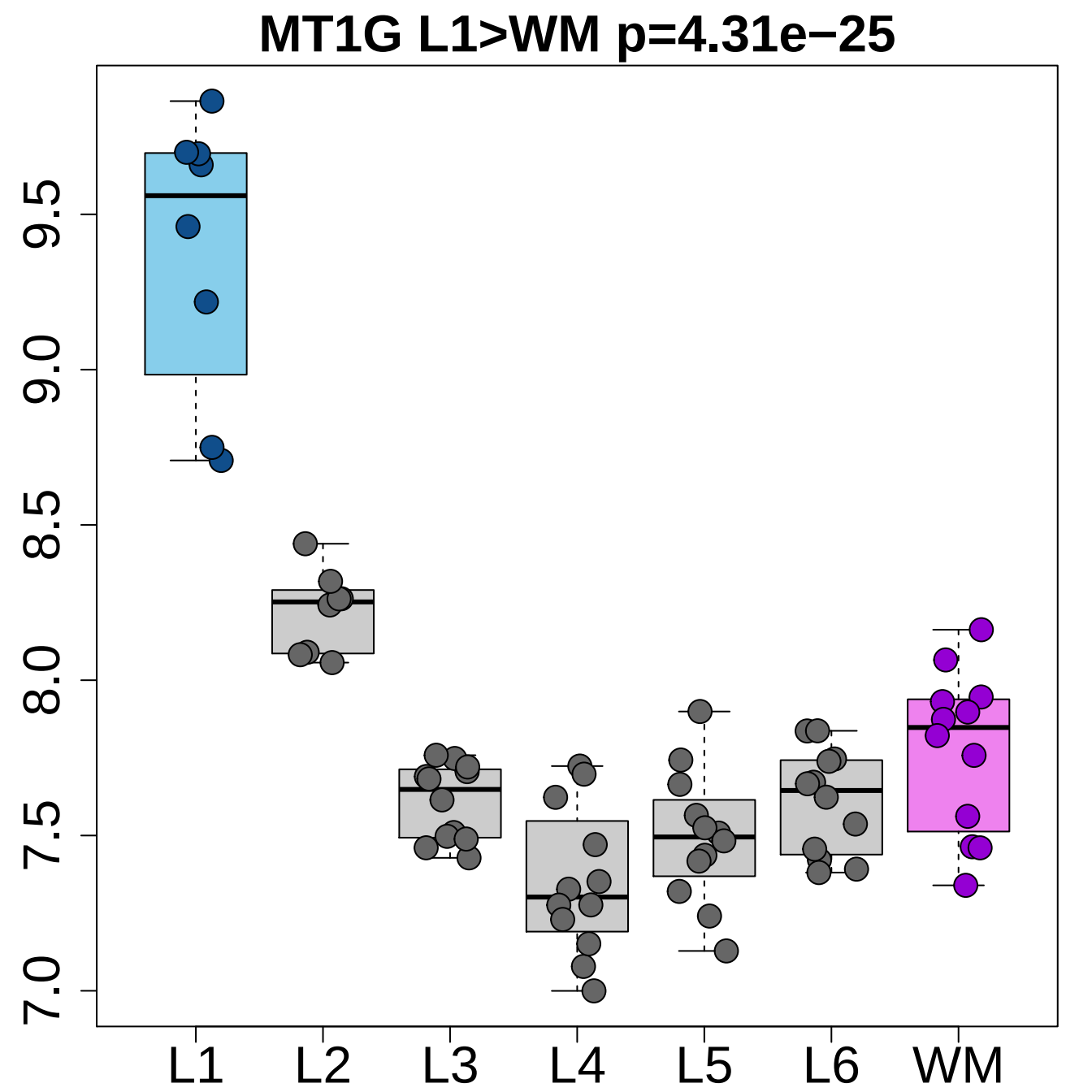

SMYD2 L5>L6 p=3.23e−13
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

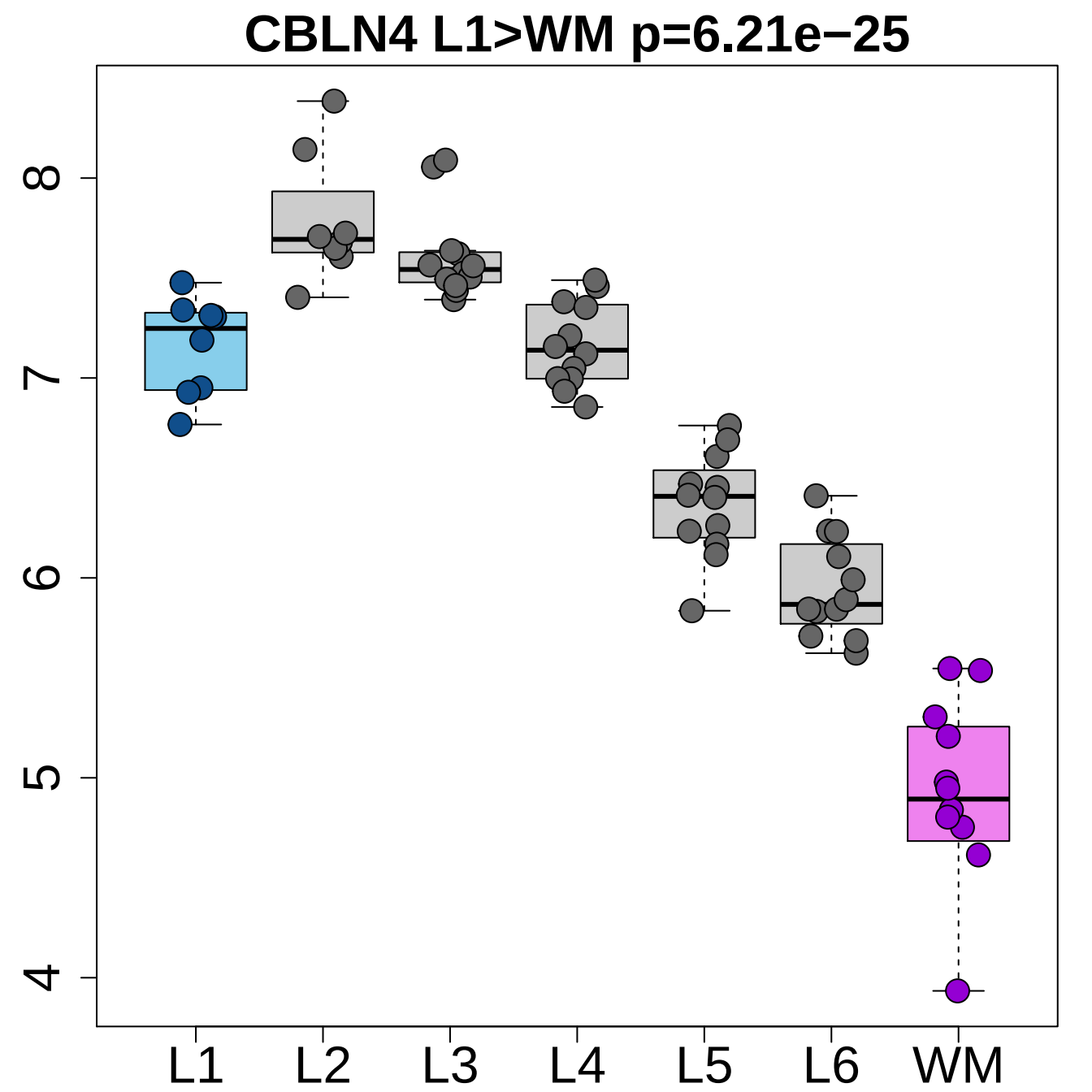

CAMK2D L5>L6 p=3.50e−13
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

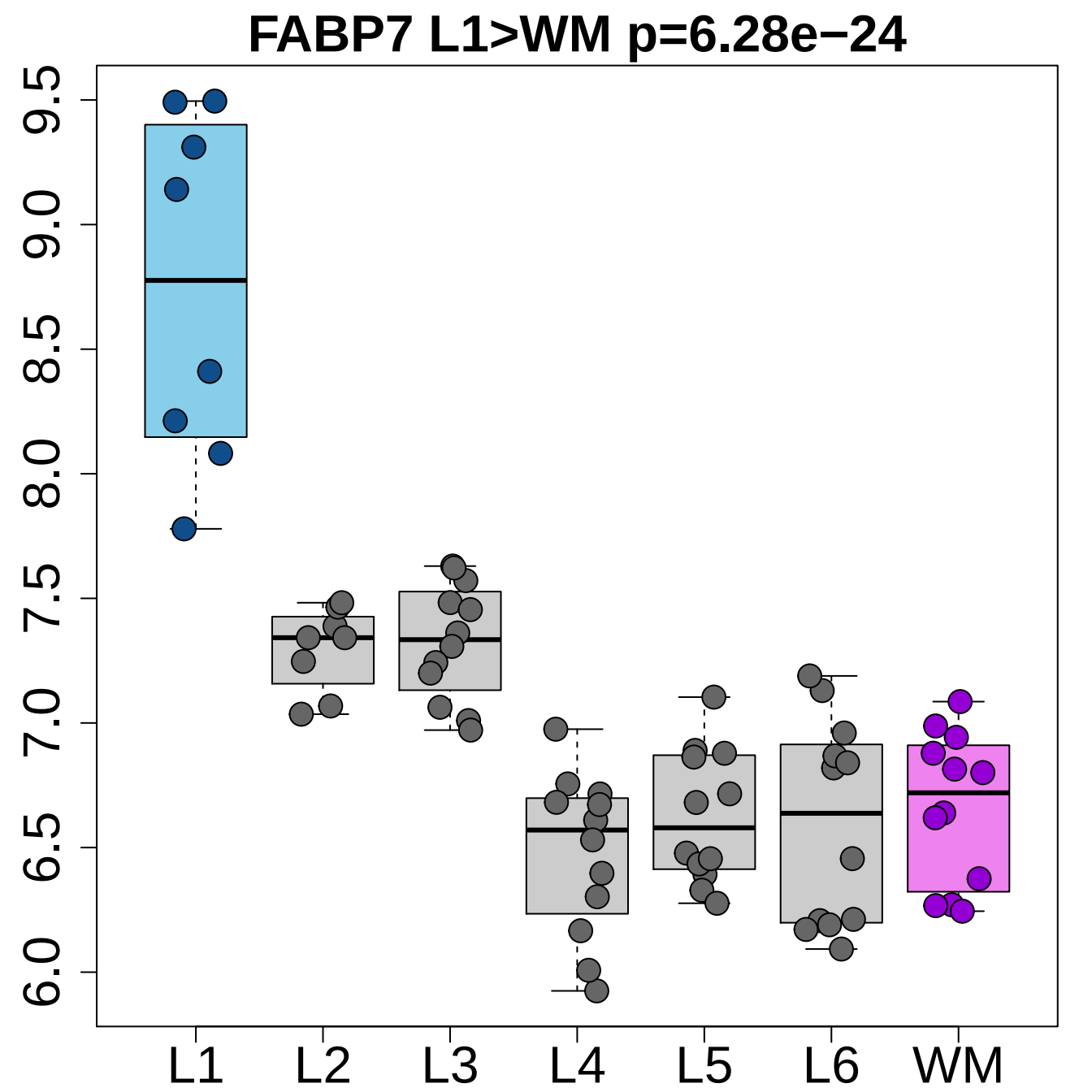

CRYM L5>L6 p=4.30e−13
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

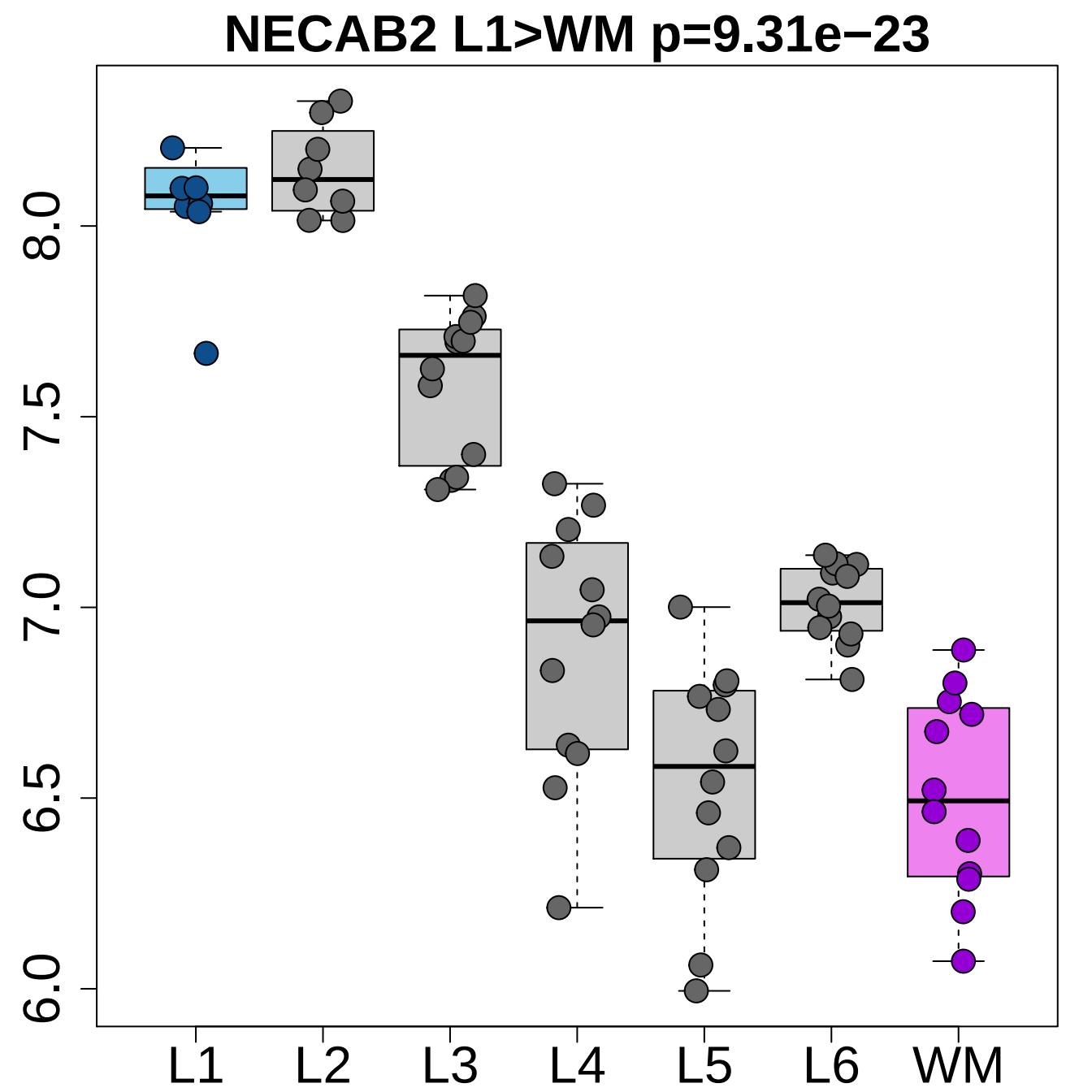

CCDC68 L5>L6 p=8.93e−12
0
1
2
3
4
5
L1
L2
L3
L4
L5
L6
WM

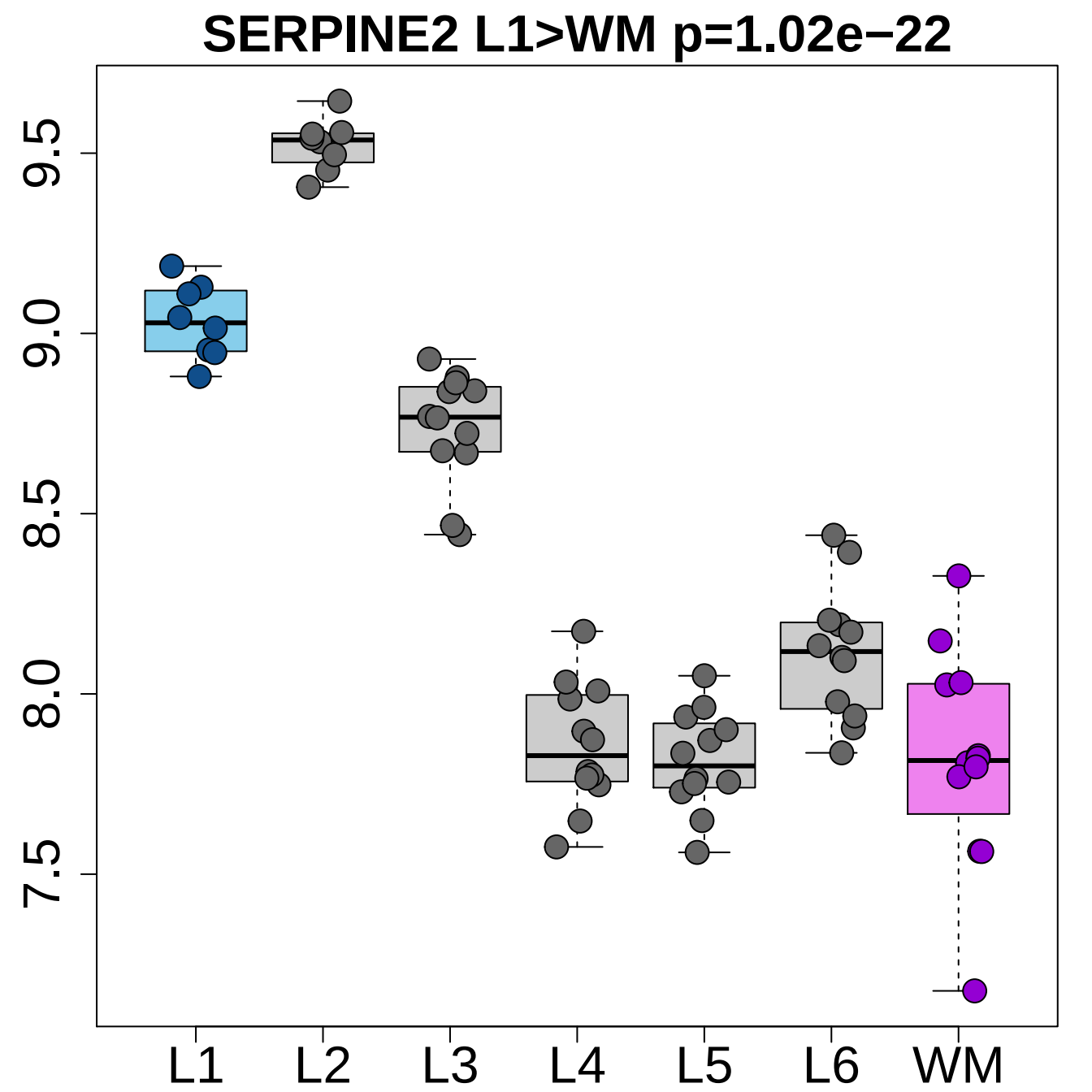

CNR1 L1>WM p=7.54e−26
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

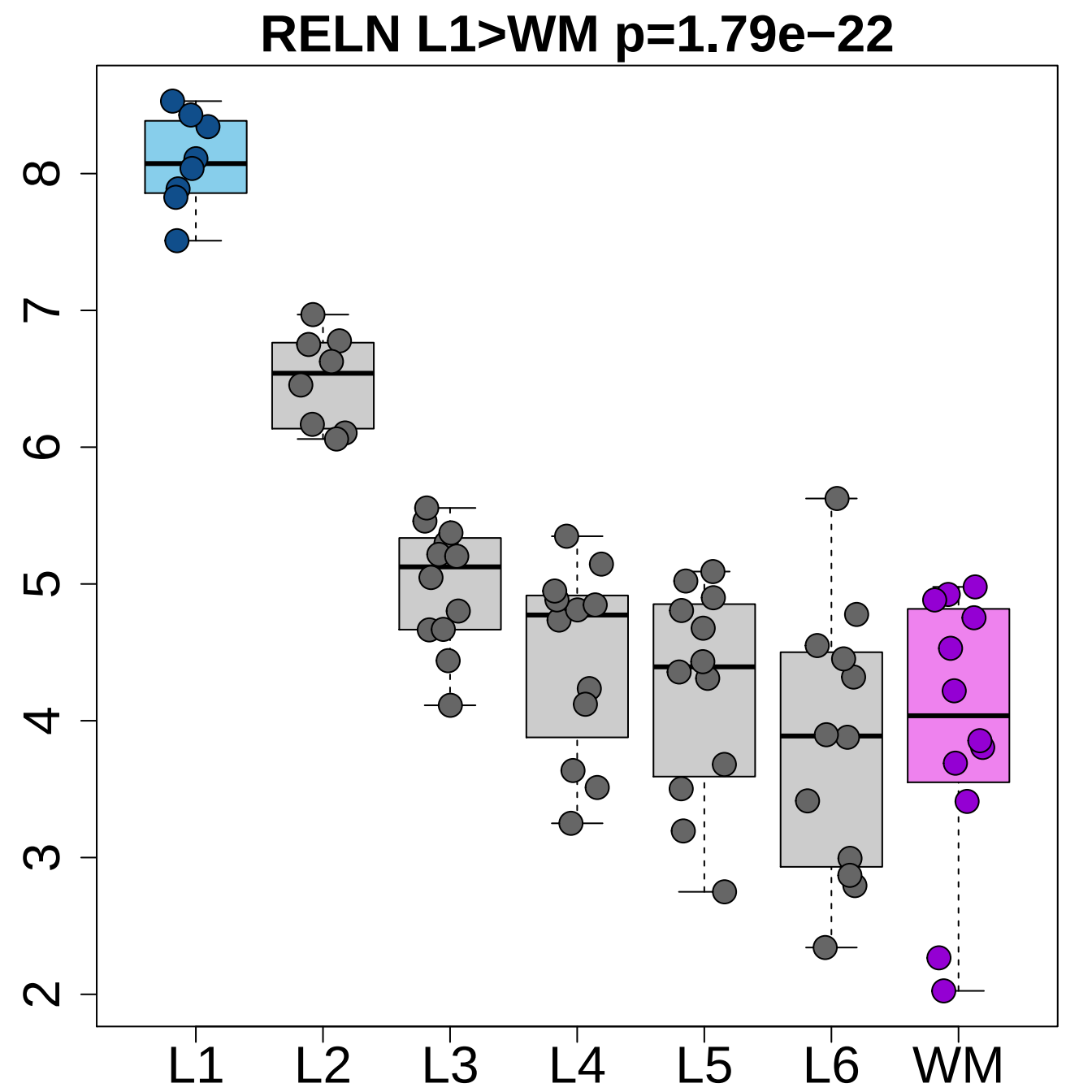

MT1G L1>WM p=4.31e−25
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

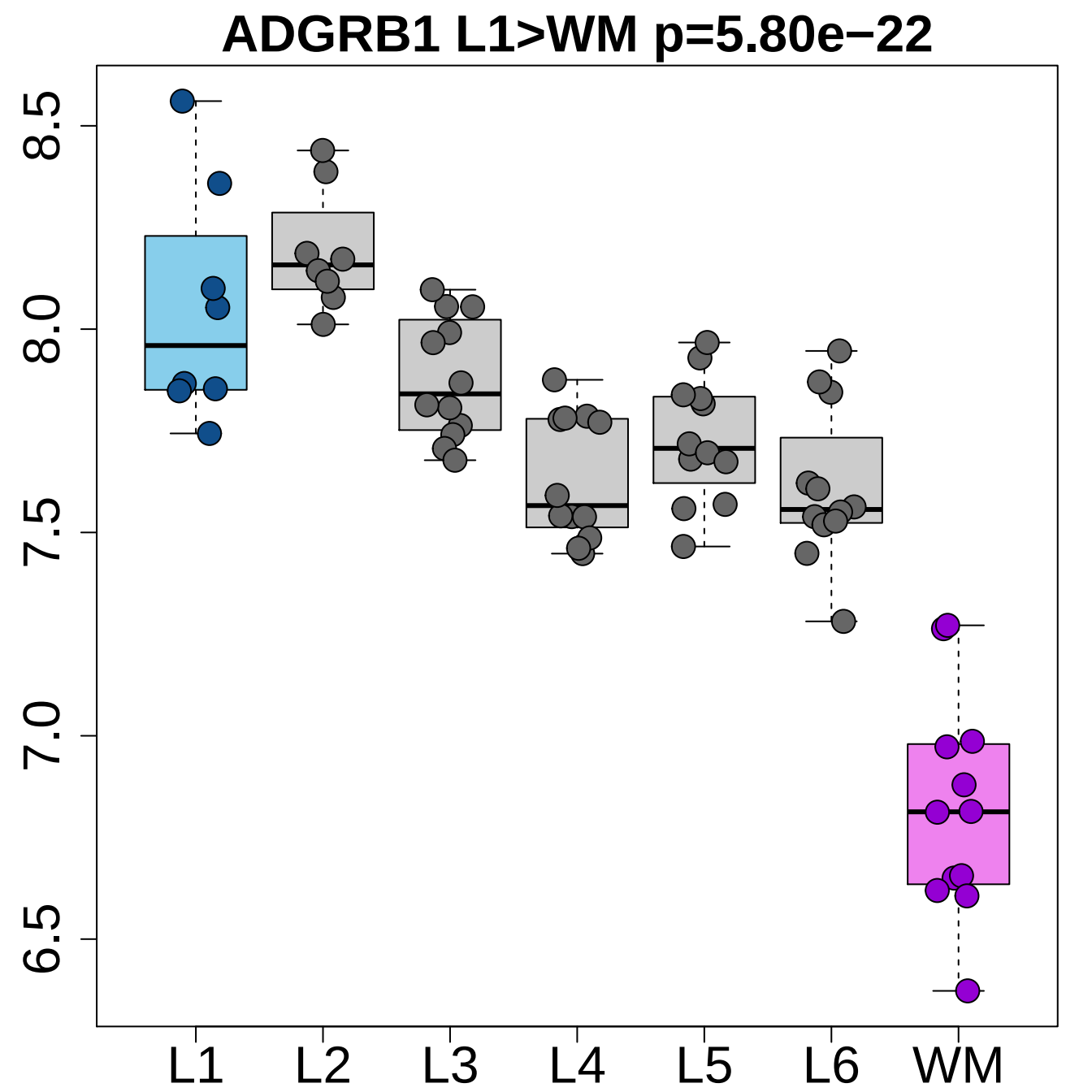

CBLN4 L1>WM p=6.21e−25
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

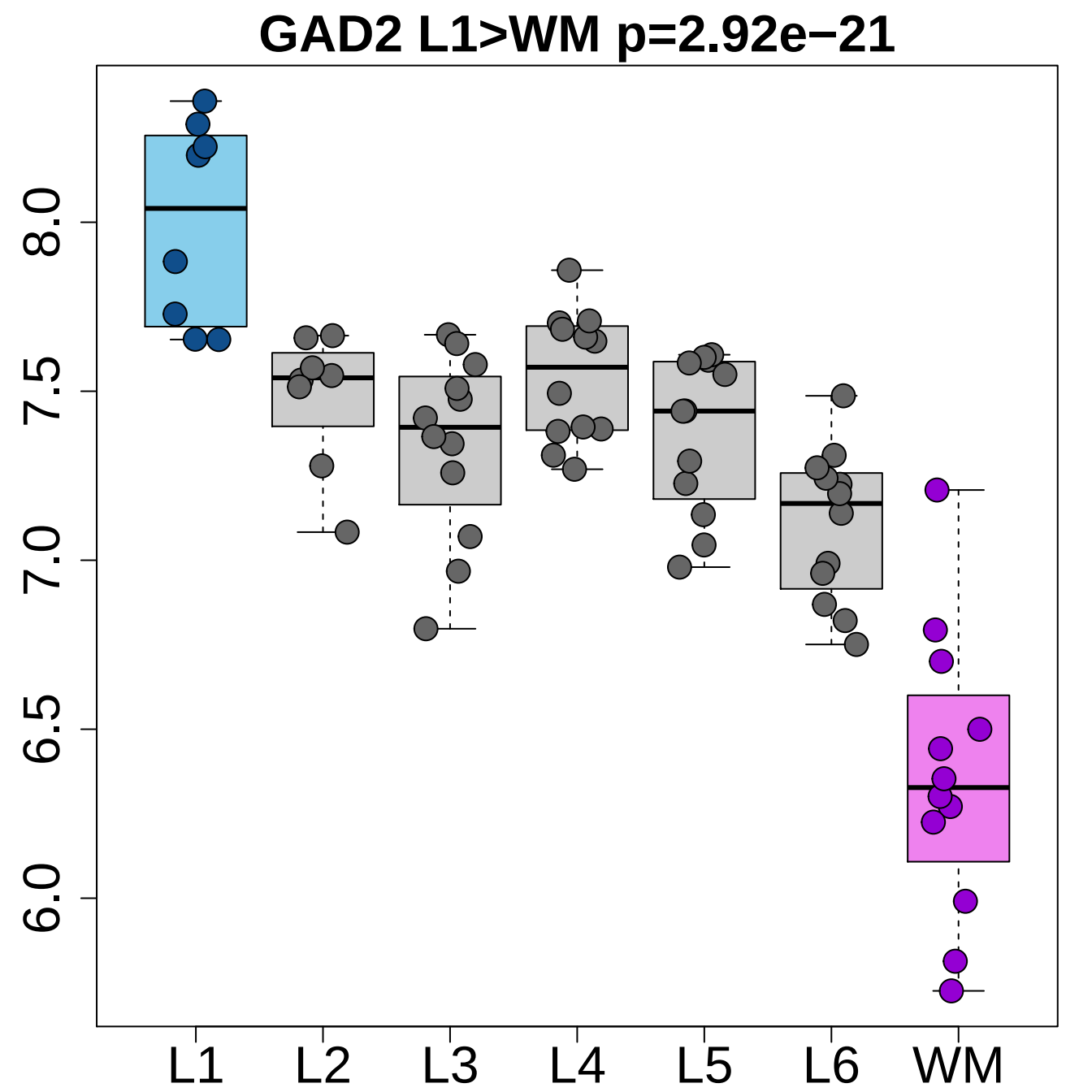

FABP7 L1>WM p=6.28e−24
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

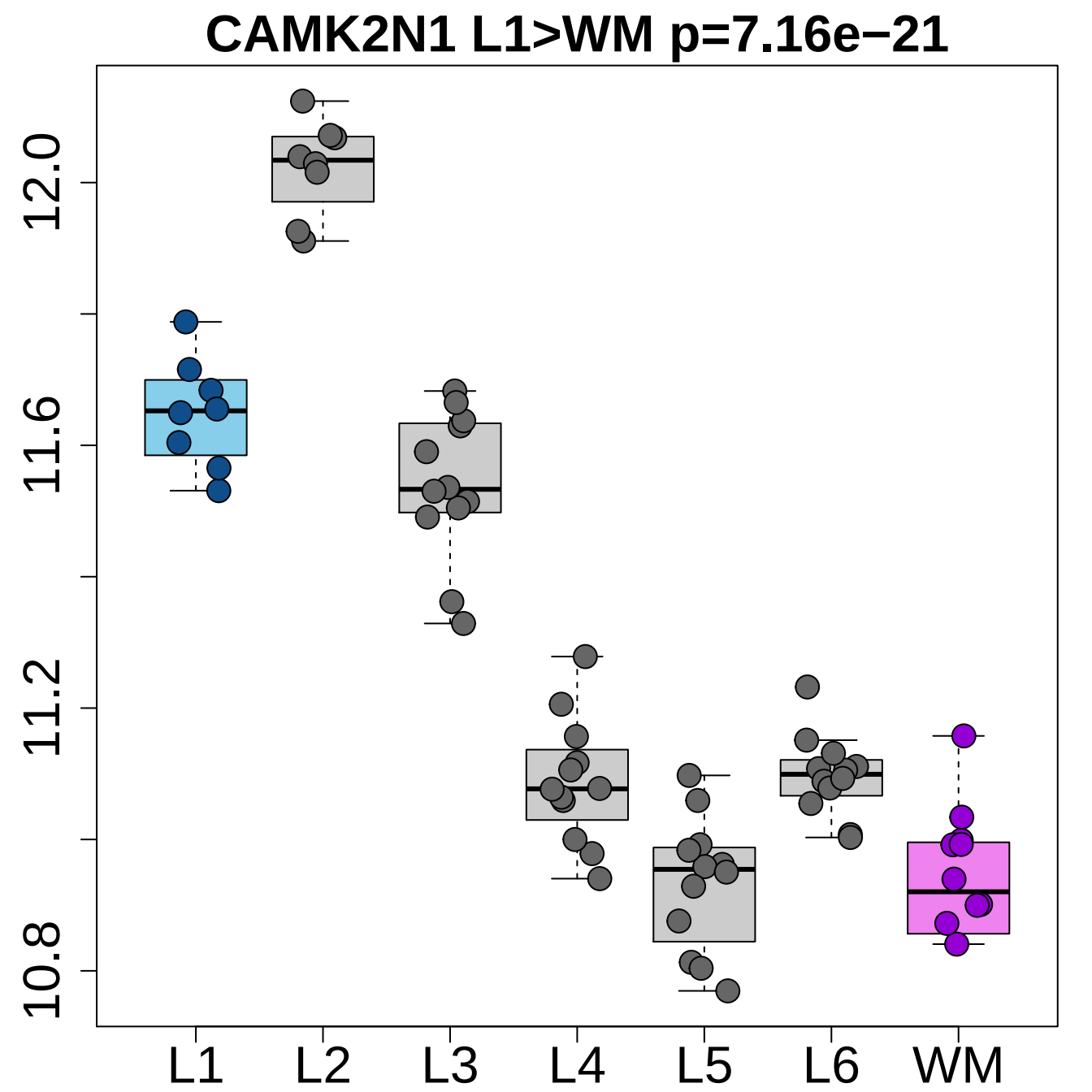

NECAB2 L1>WM p=9.31e−23
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

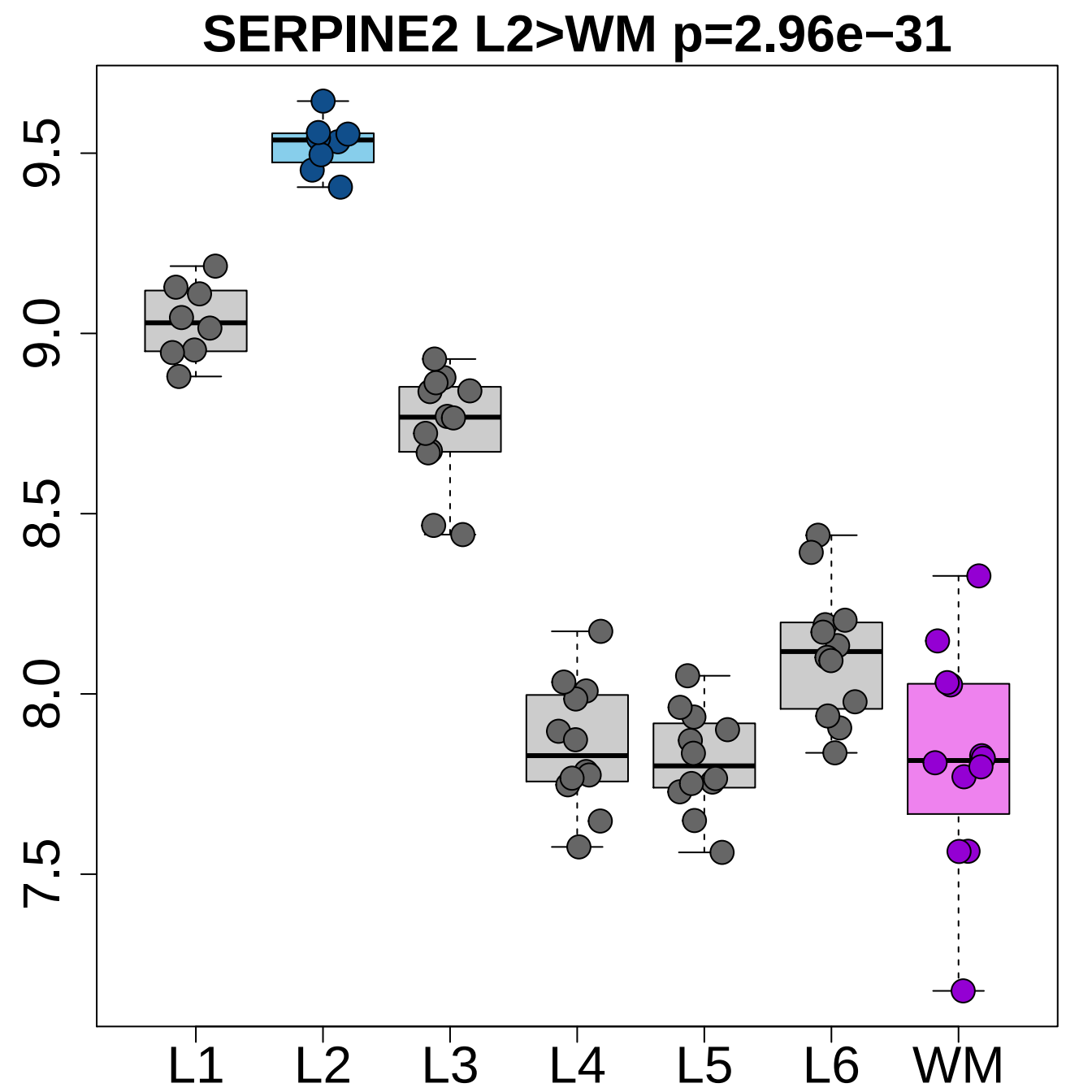

SERPINE2 L1>WM p=1.02e−22
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

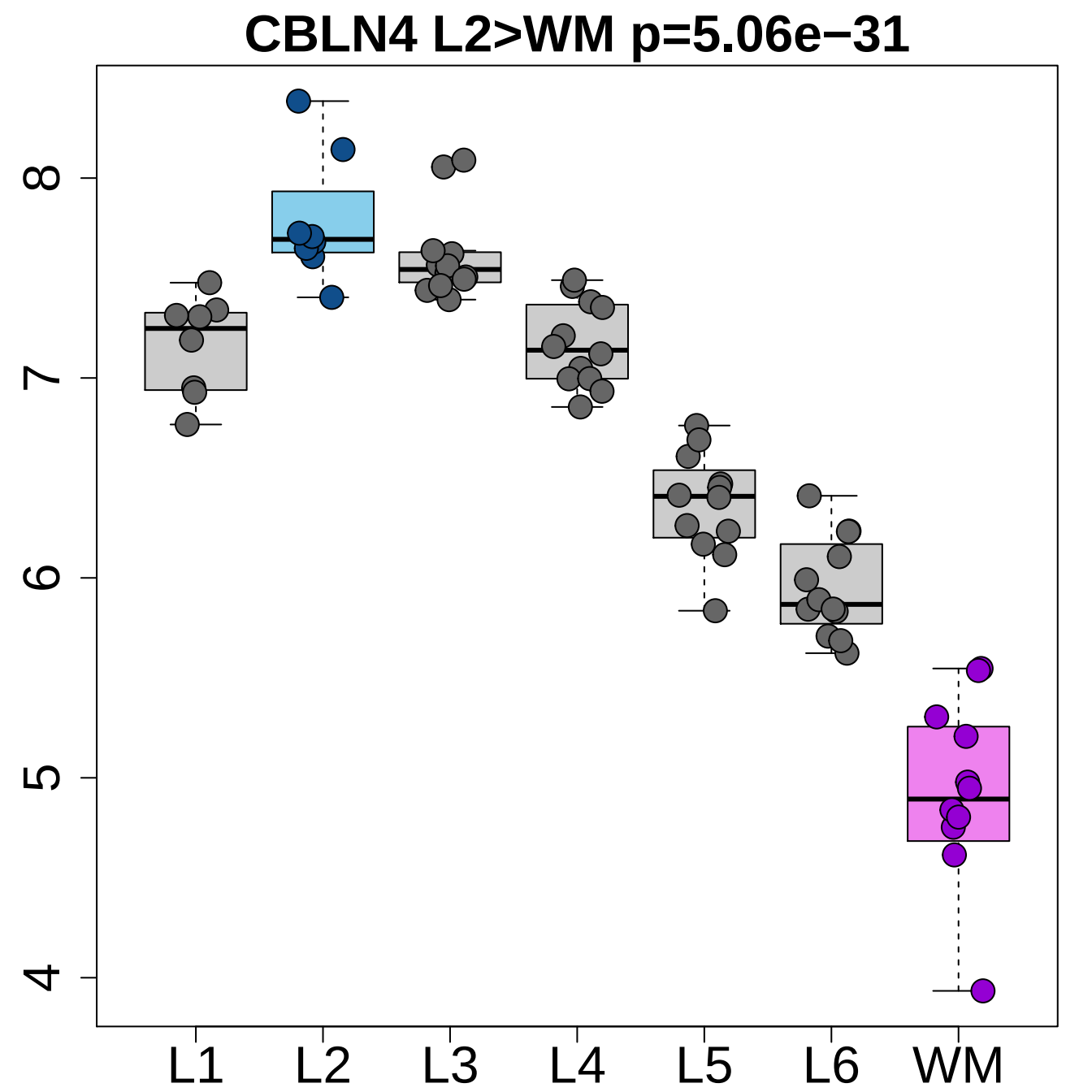

RELN L1>WM p=1.79e−22
8
7
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM

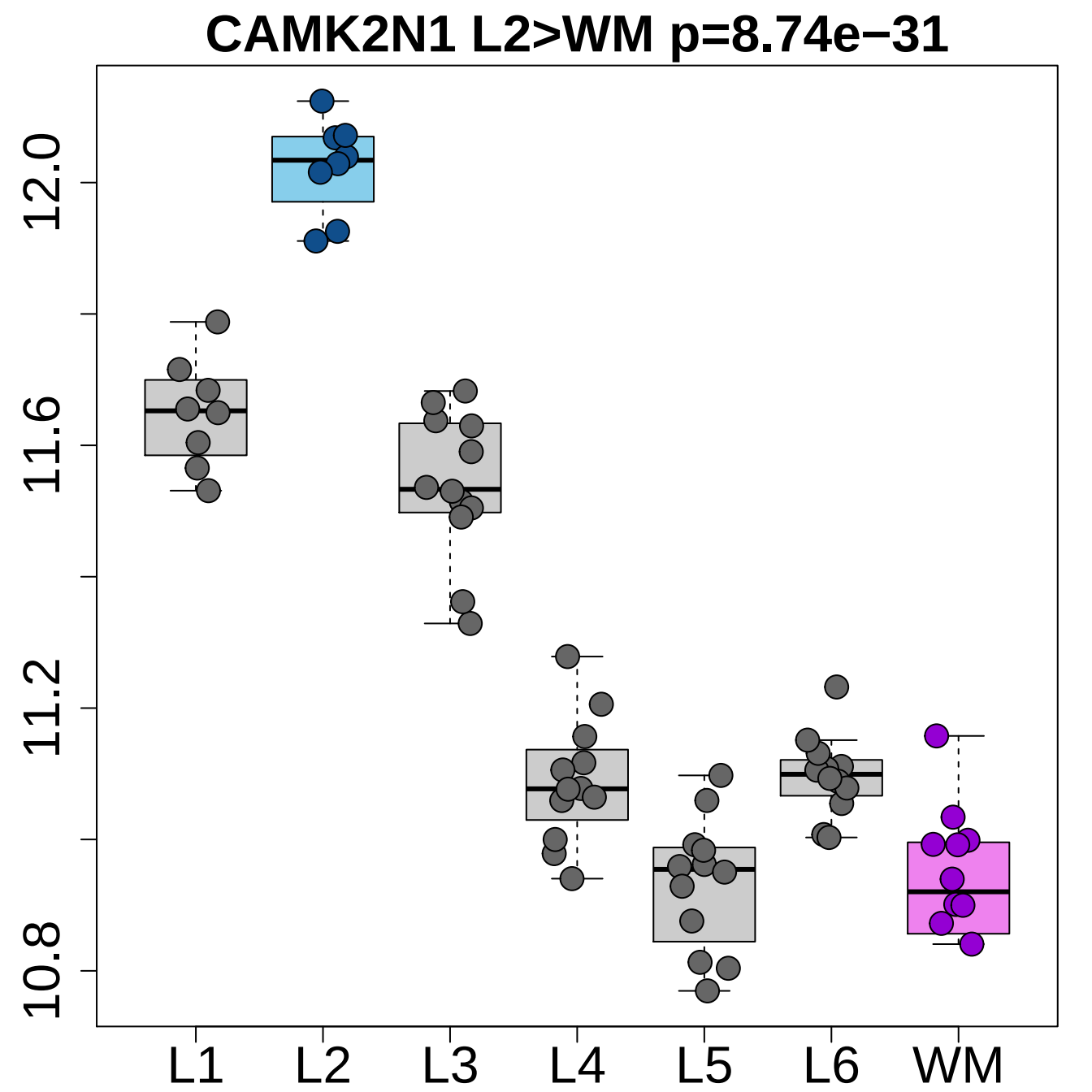

ADGRB1 L1>WM p=5.80e−22
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

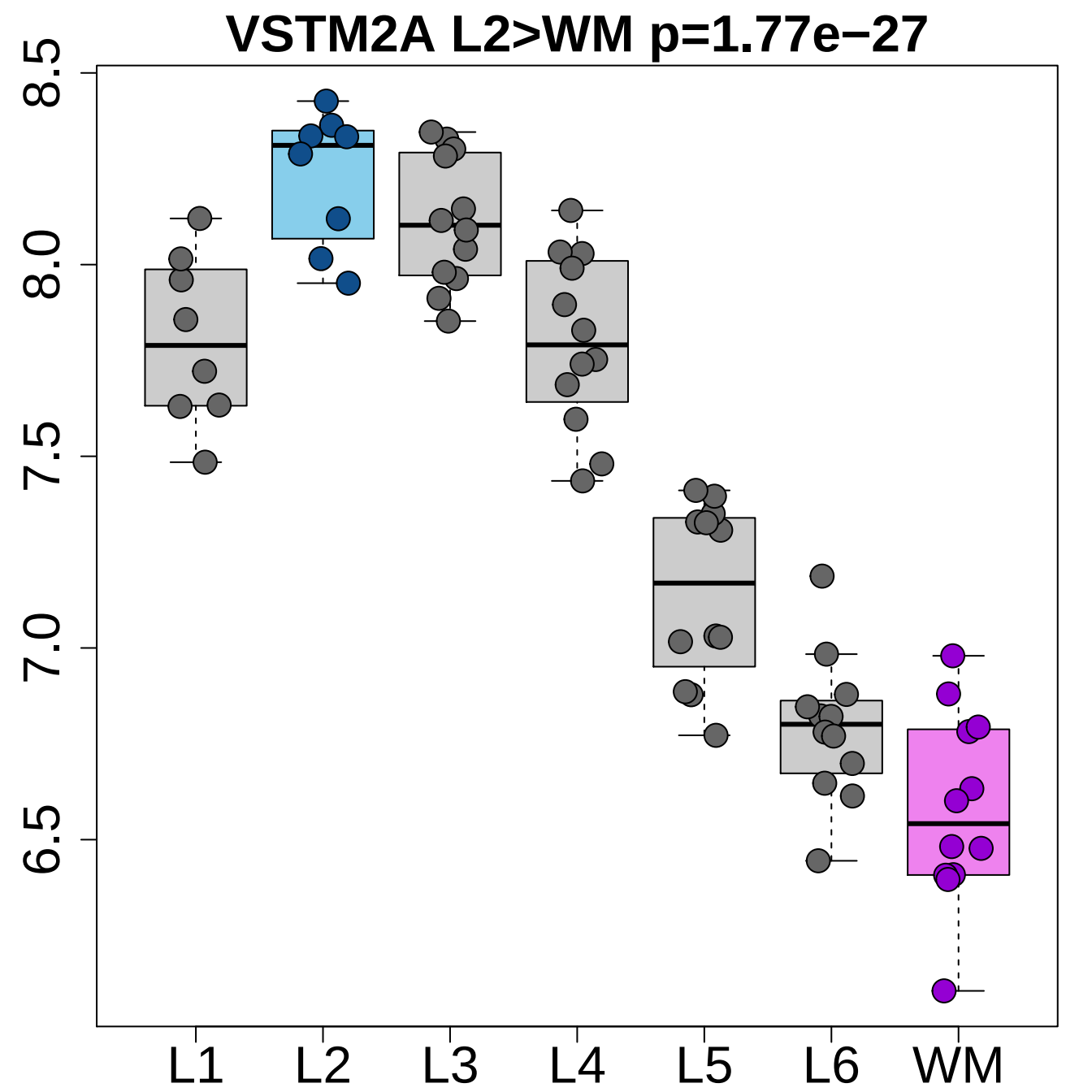

GAD2 L1>WM p=2.92e−21
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

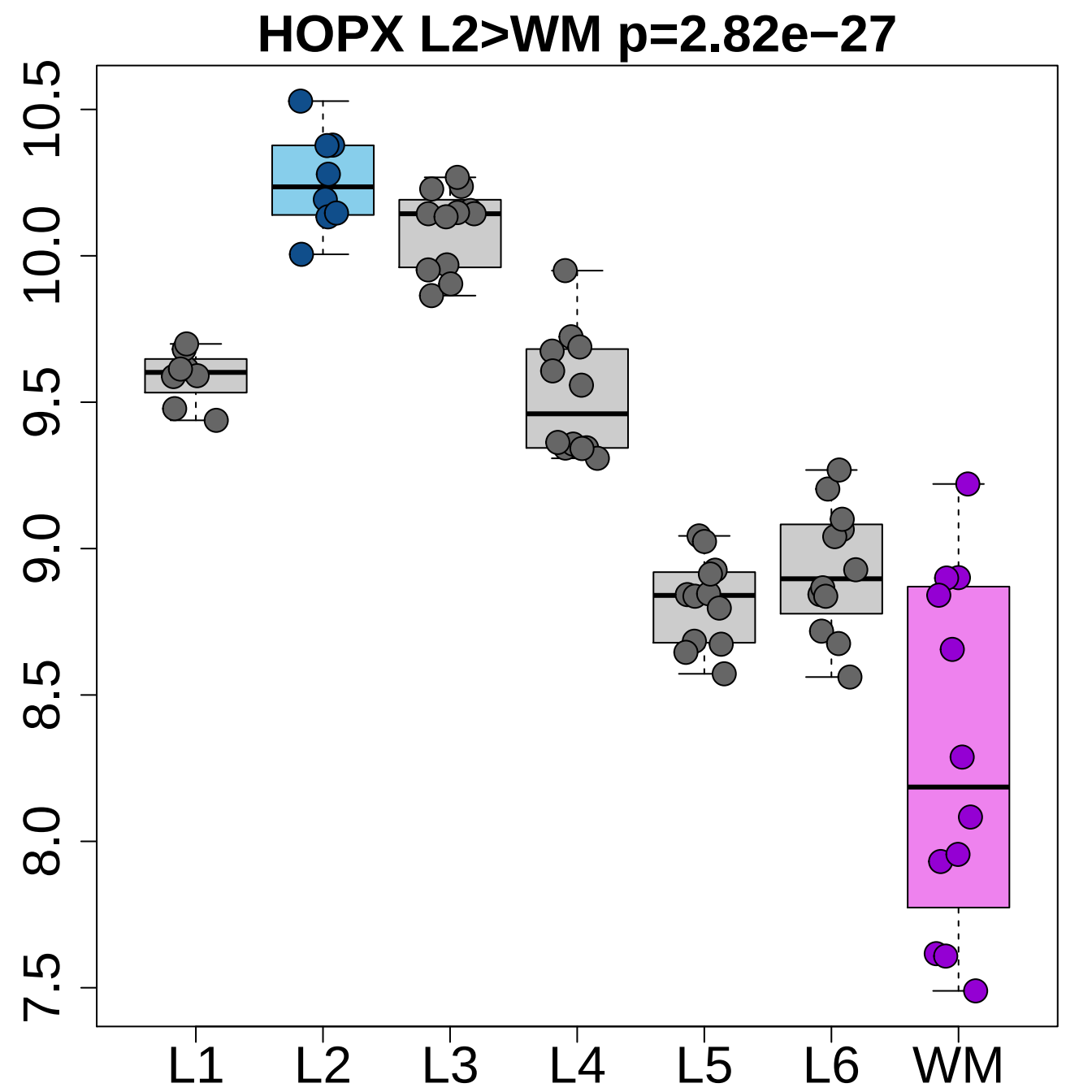

CAMK2N1 L1>WM p=7.16e−21
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM

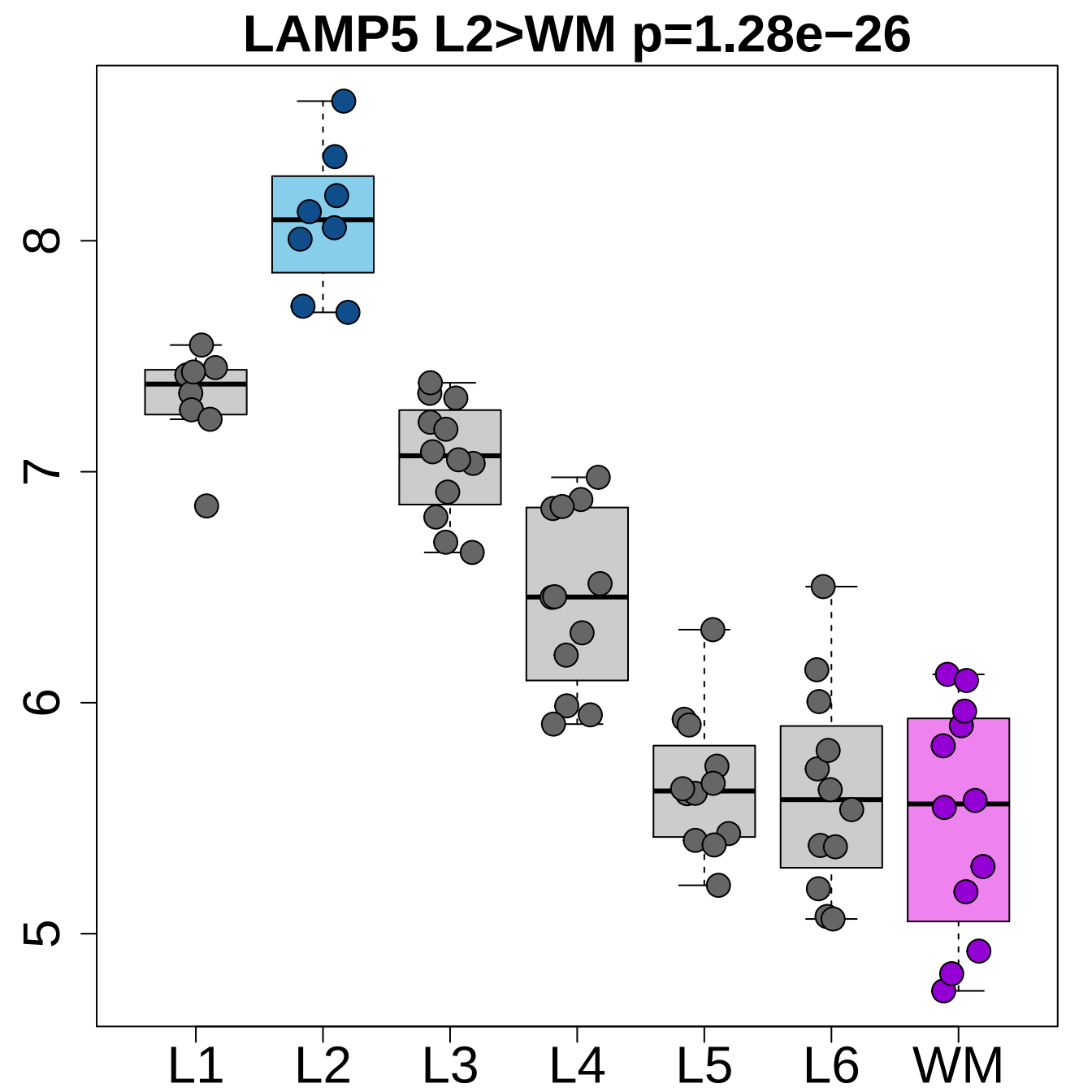

SERPINE2 L2>WM p=2.96e−31
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

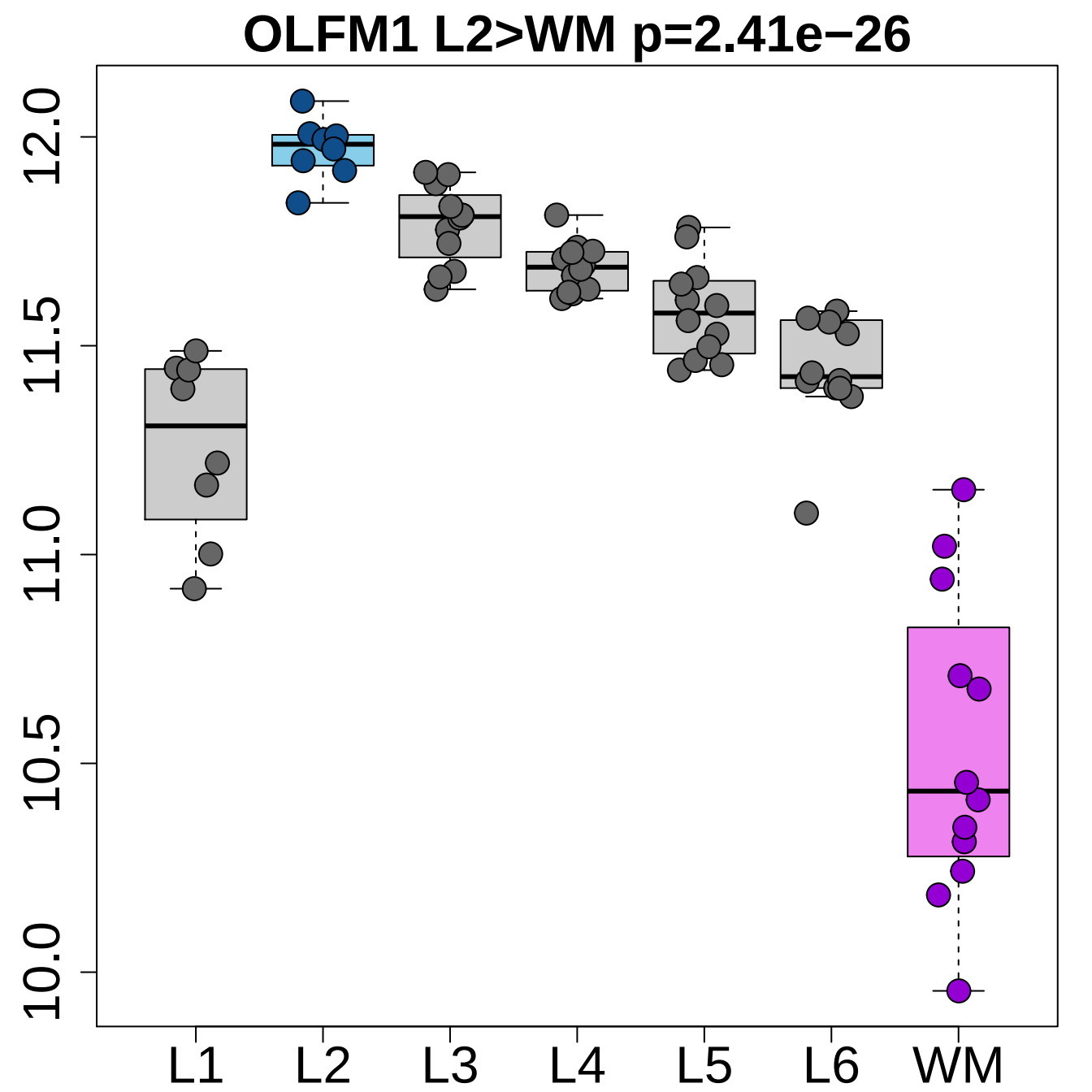

CBLN4 L2>WM p=5.06e−31
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

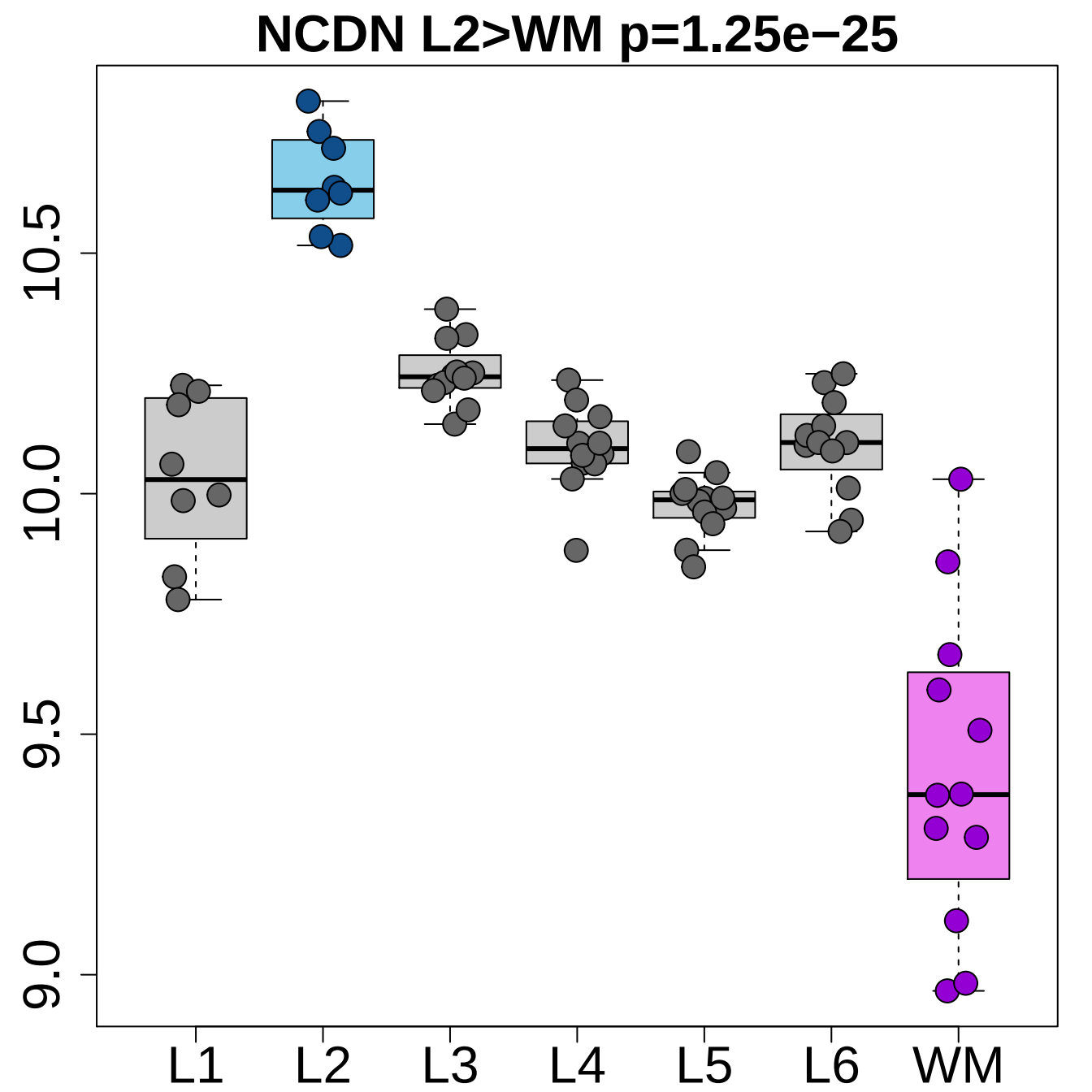

CAMK2N1 L2>WM p=8.74e−31
12.0
11.6
11.2
10.8
L1
L2
L3
L4
L5
L6
WM

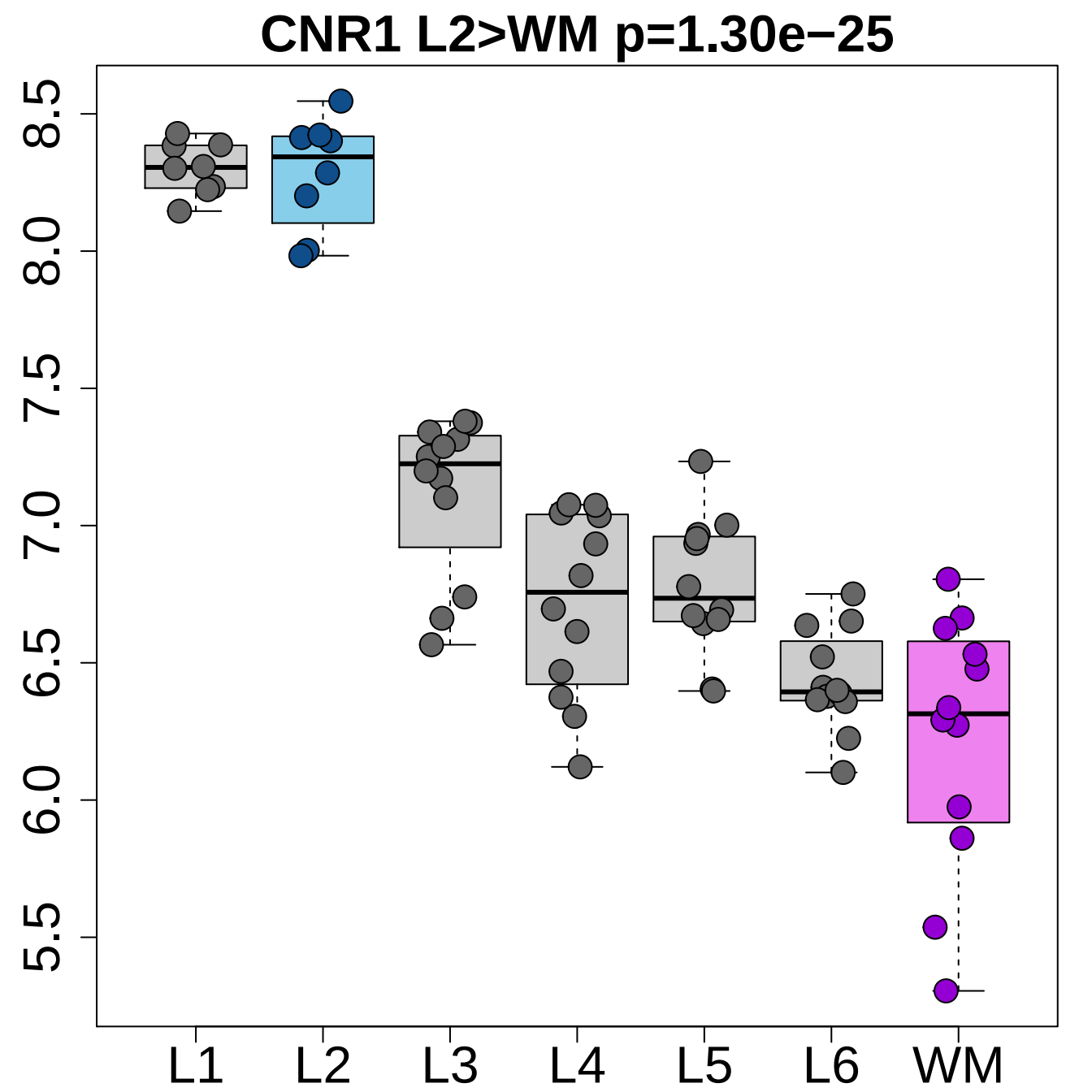

VSTM2A L2>WM p=1.77e−27
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

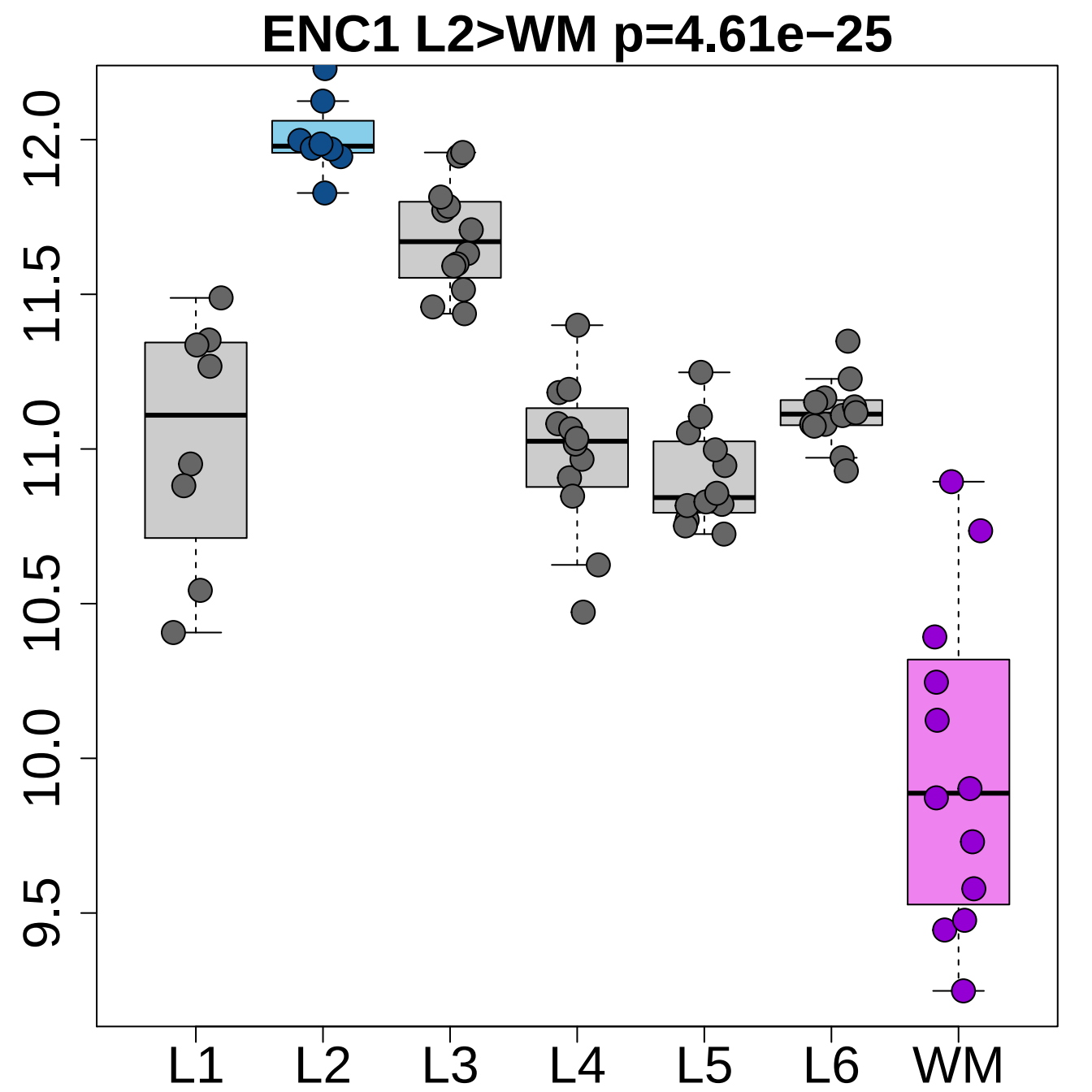

HOPX L2>WM p=2.82e−27
10.5
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

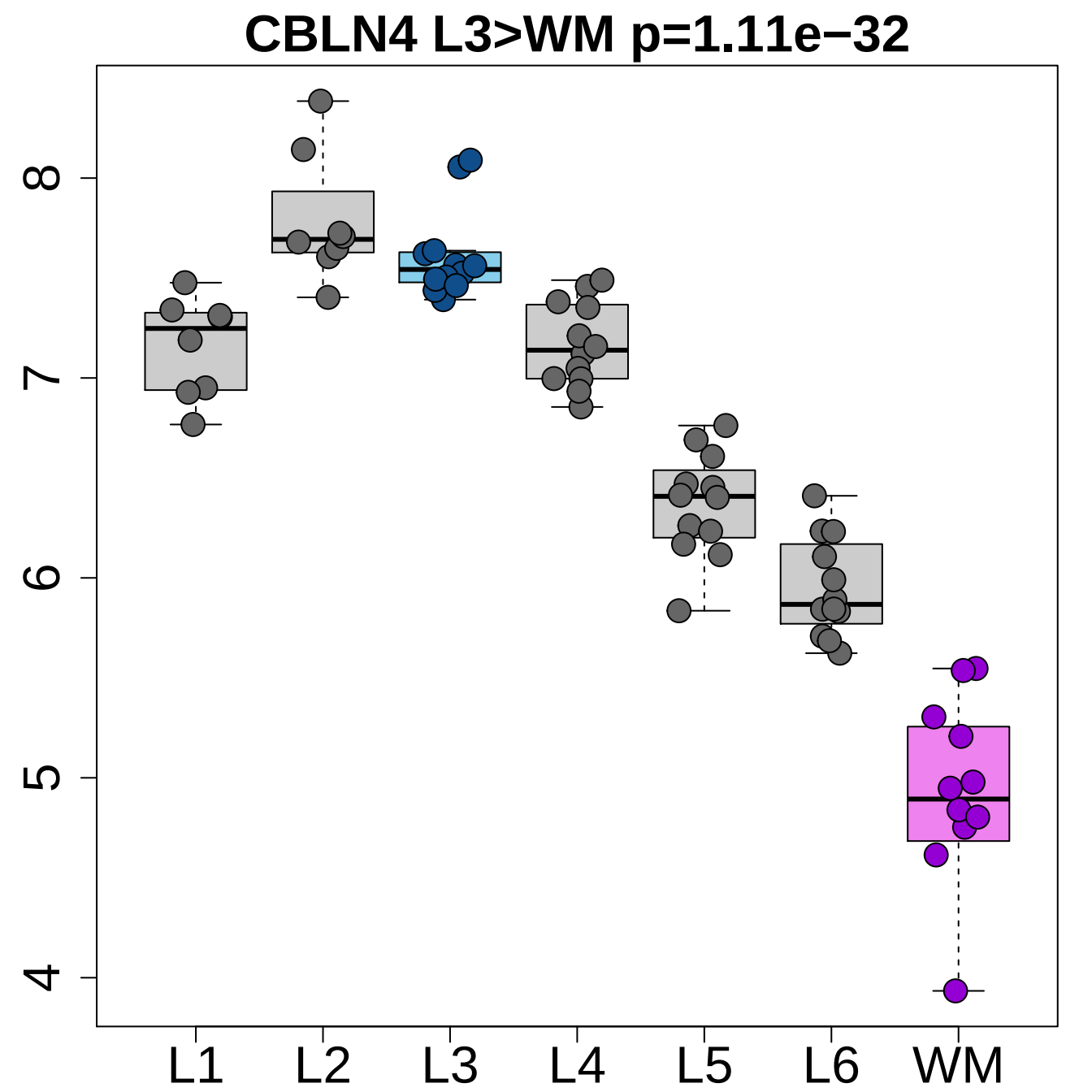

LAMP5 L2>WM p=1.28e−26
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

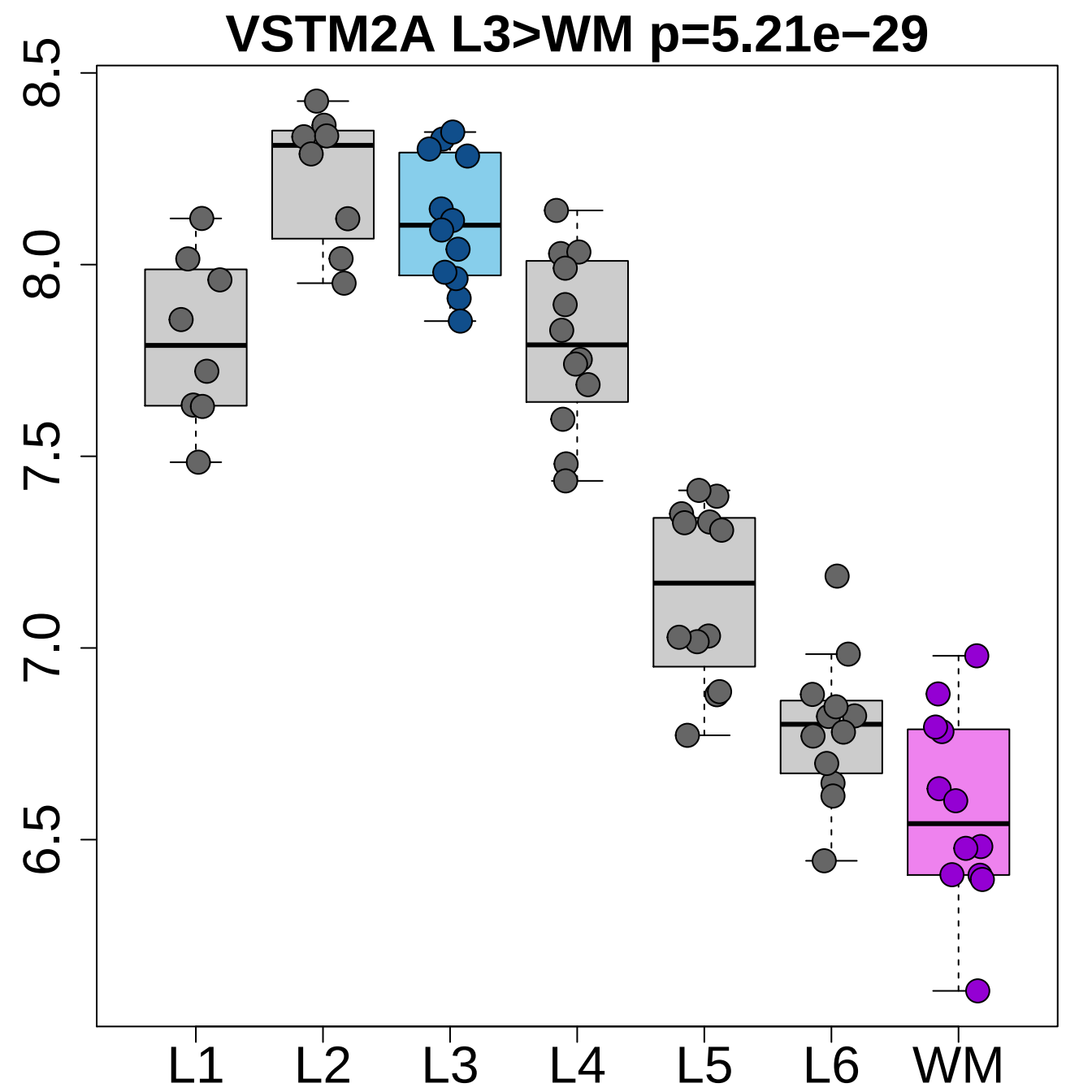

OLFM1 L2>WM p=2.41e−26
12.0
11.5
11.0
10.5
10.0
L1
L2
L3
L4
L5
L6
WM

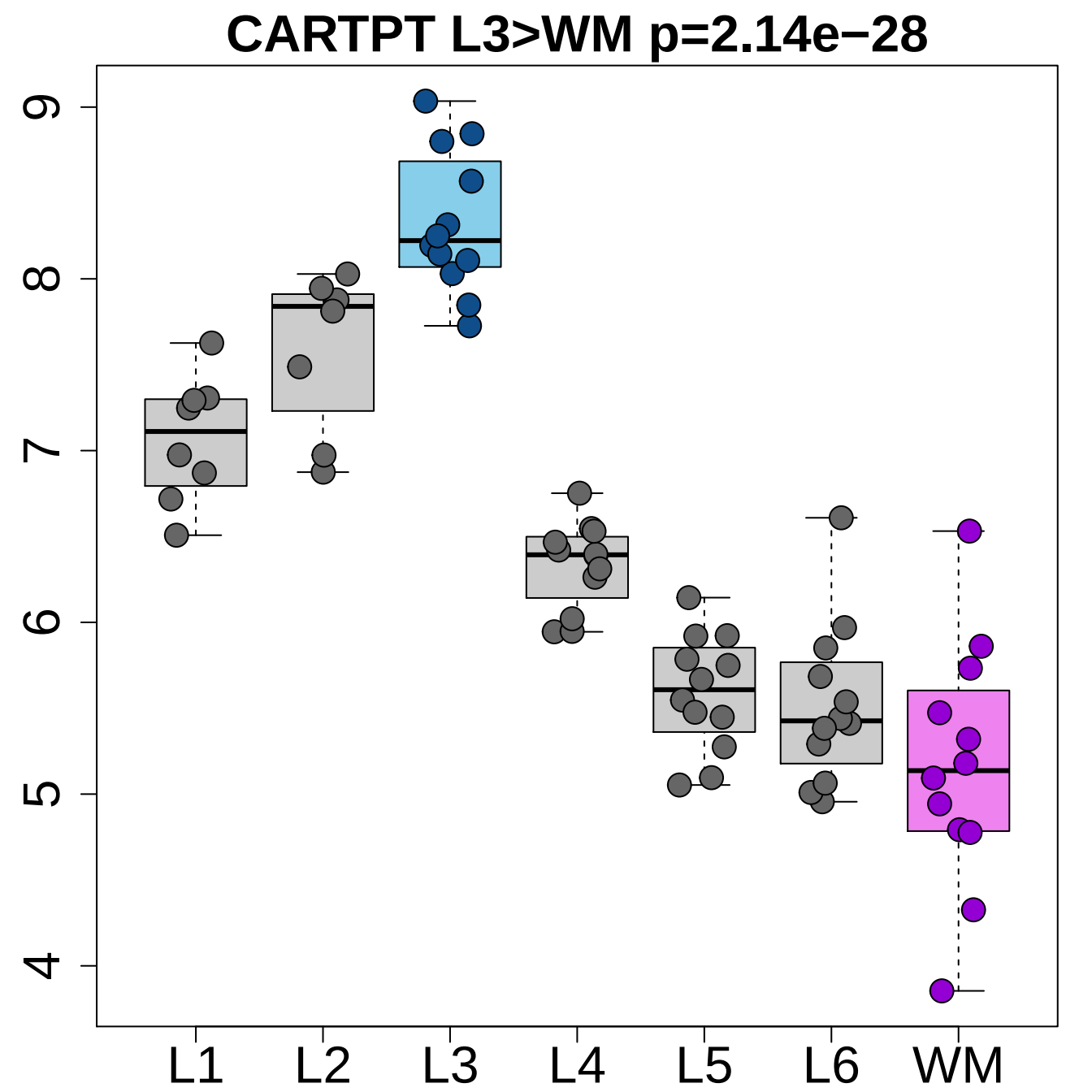

NCDN L2>WM p=1.25e−25
10.5
10.0
9.5
9.0
L1
L2
L3
L4
L5
L6
WM

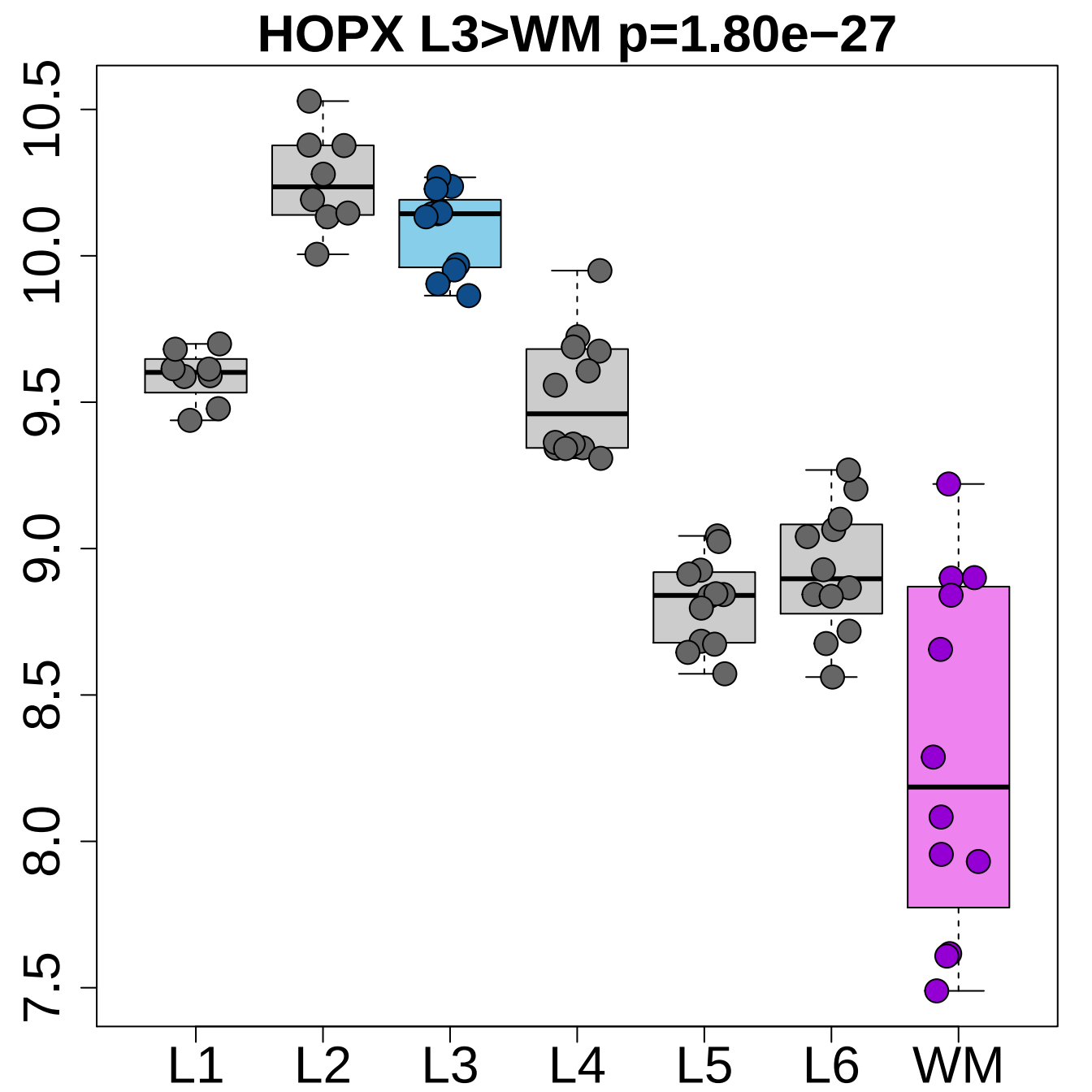

CNR1 L2>WM p=1.30e−25
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

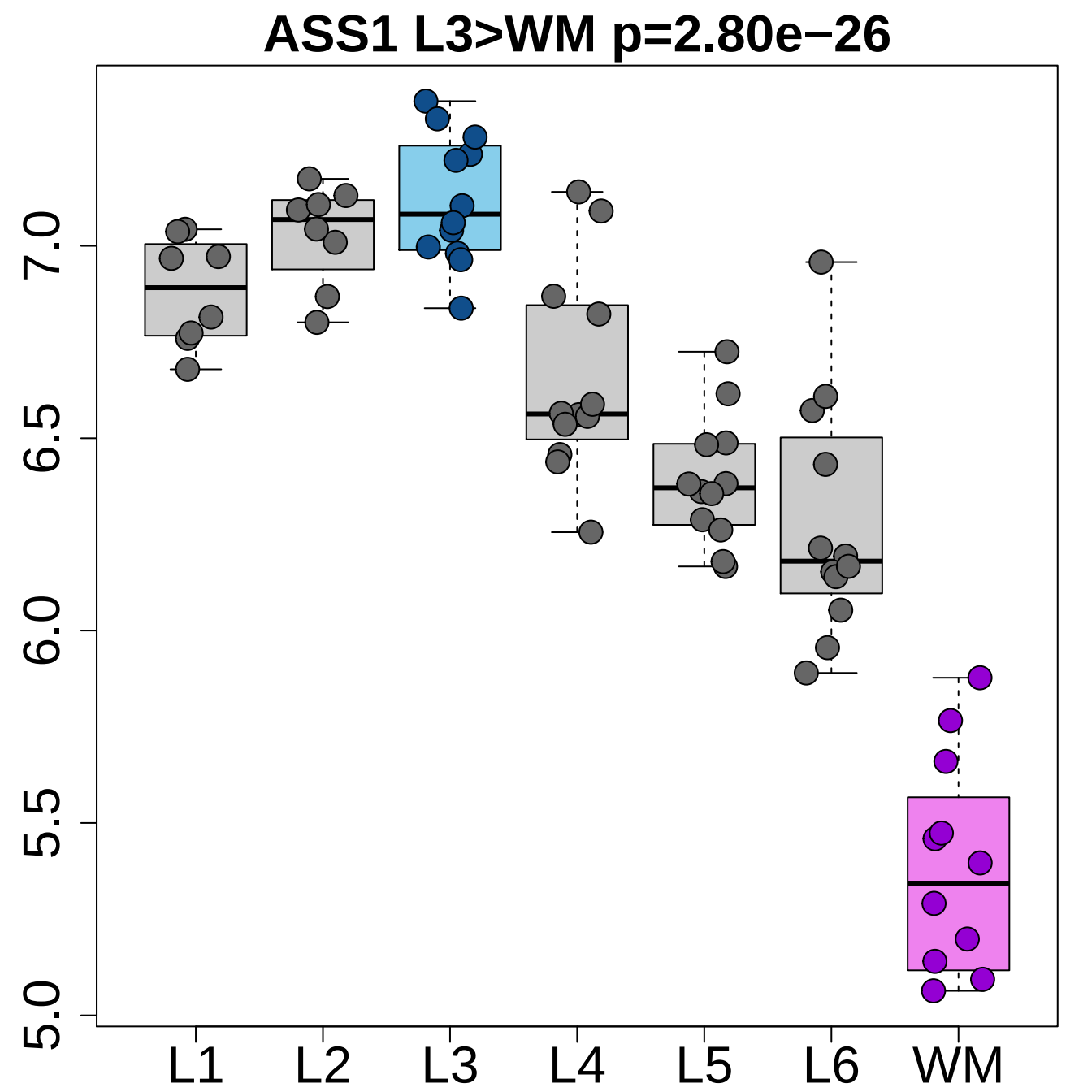

ENC1 L2>WM p=4.61e−25
12.0
11.5
11.0
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM

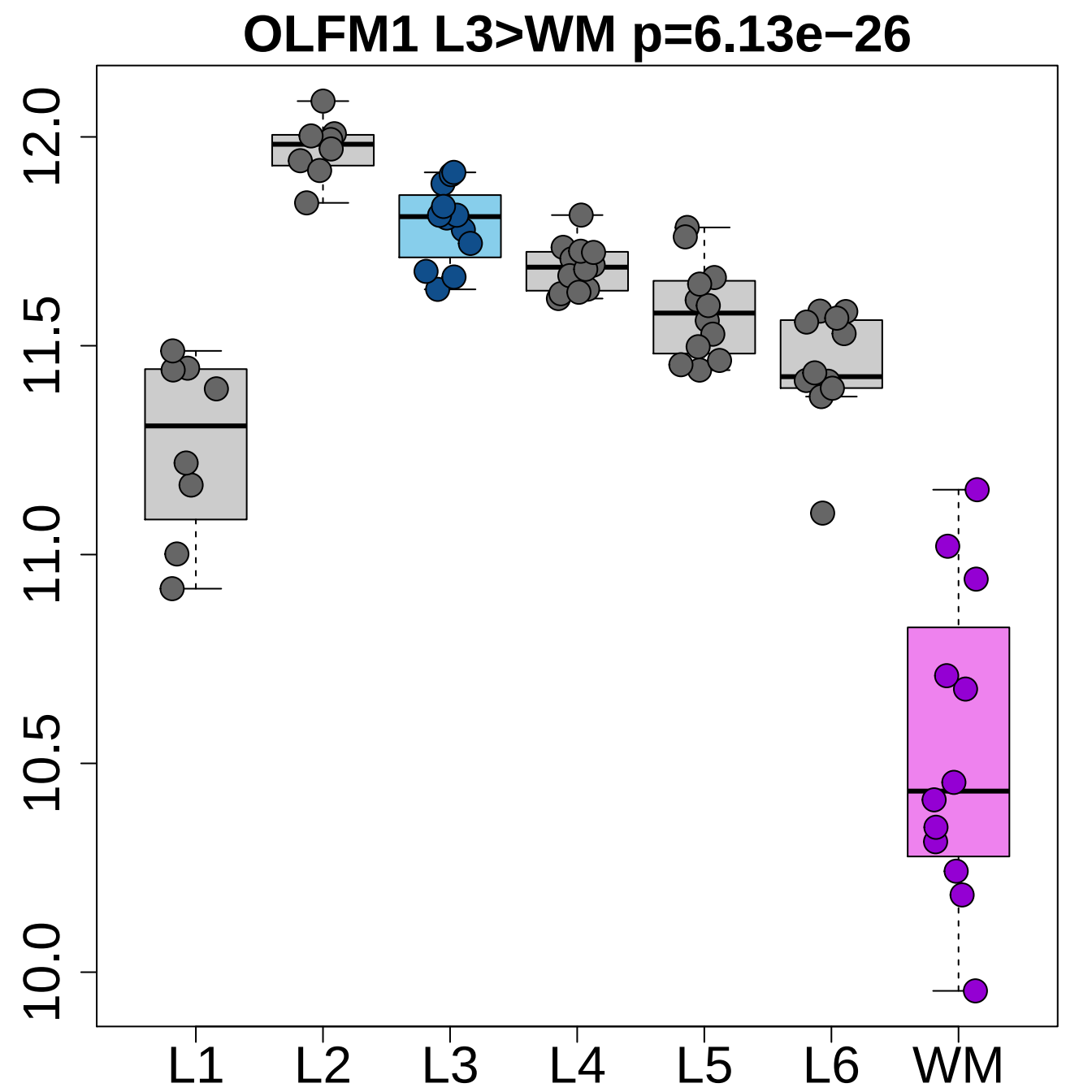

CBLN4 L3>WM p=1.11e−32
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

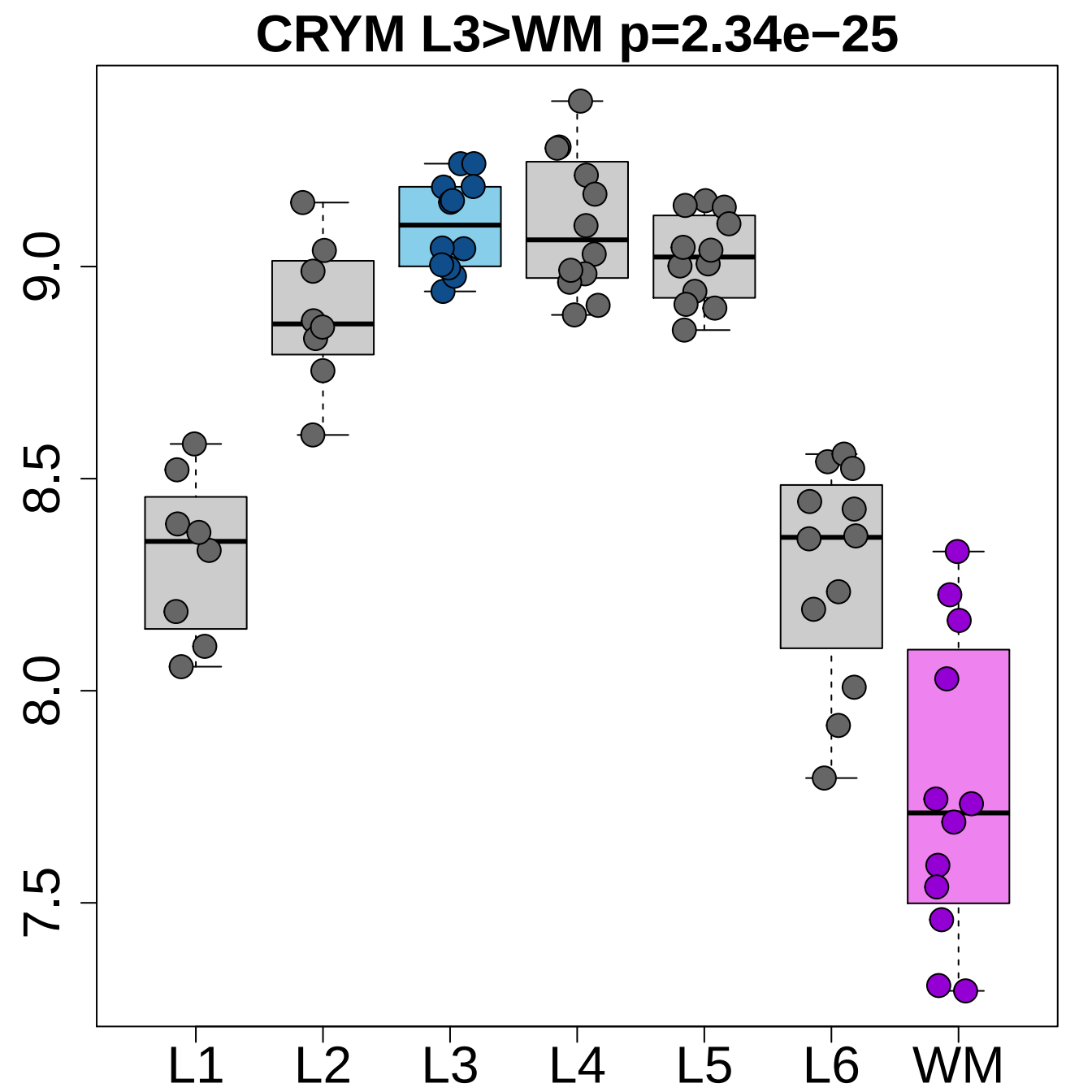

VSTM2A L3>WM p=5.21e−29
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

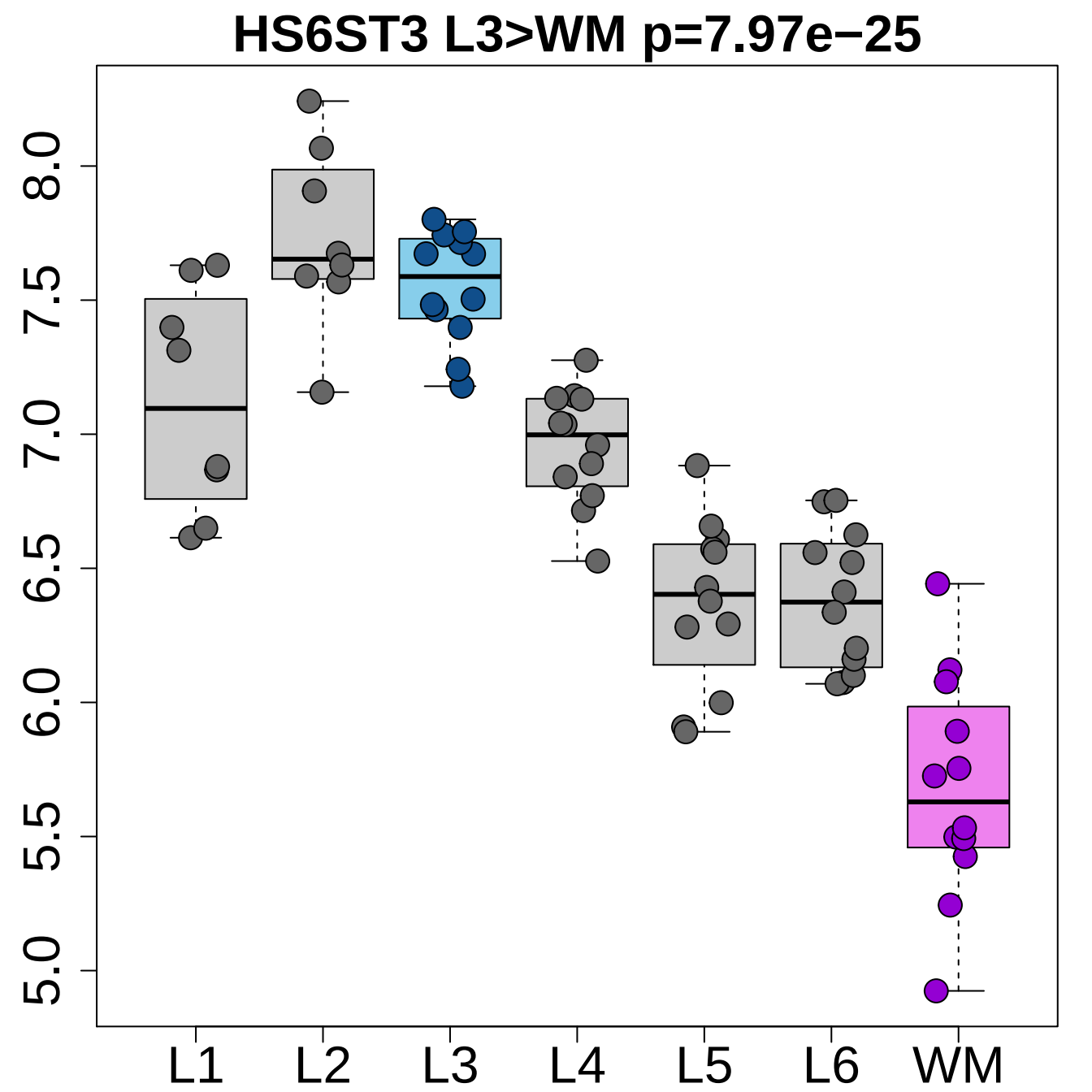

CARTPT L3>WM p=2.14e−28
9
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

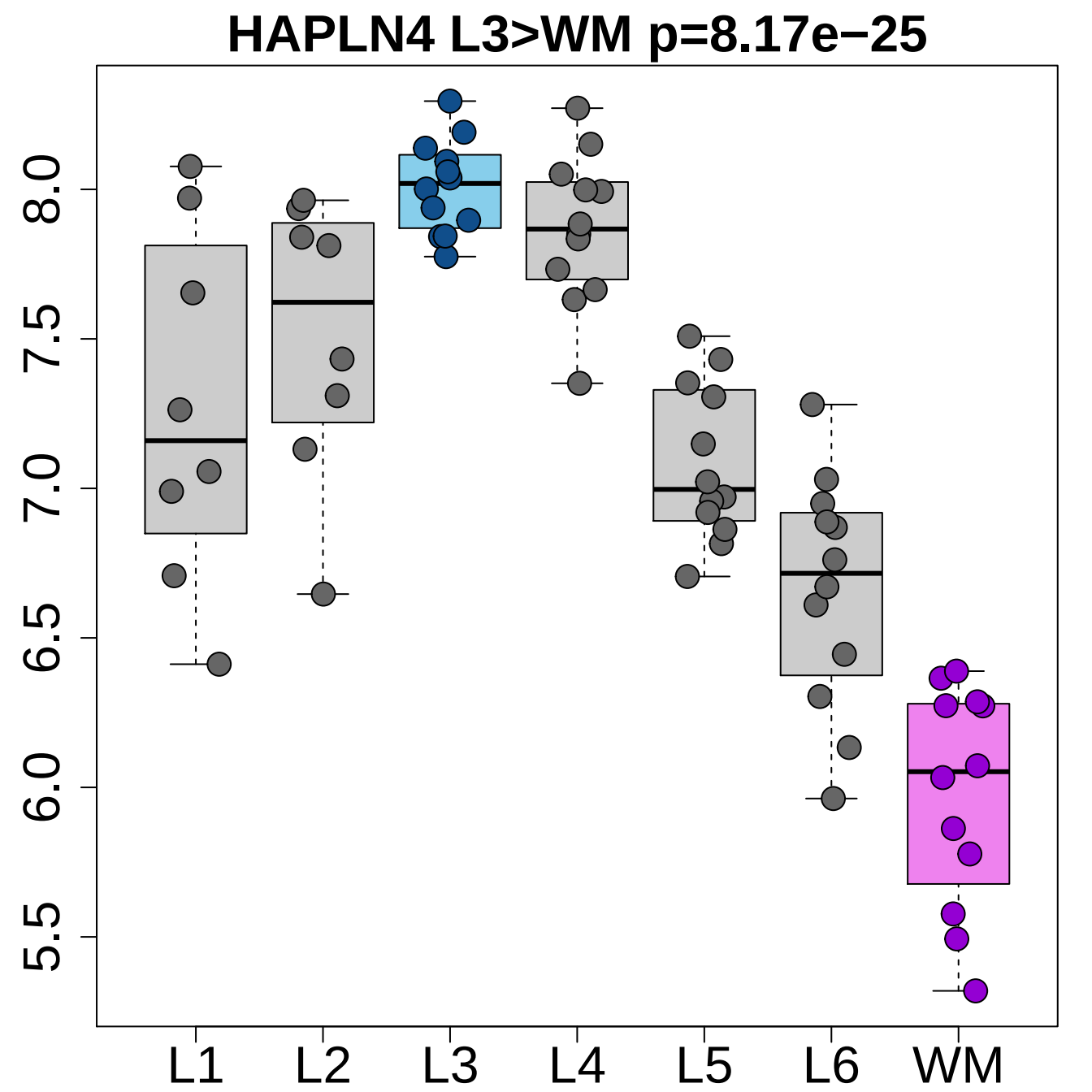

HOPX L3>WM p=1.80e−27
10.5
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

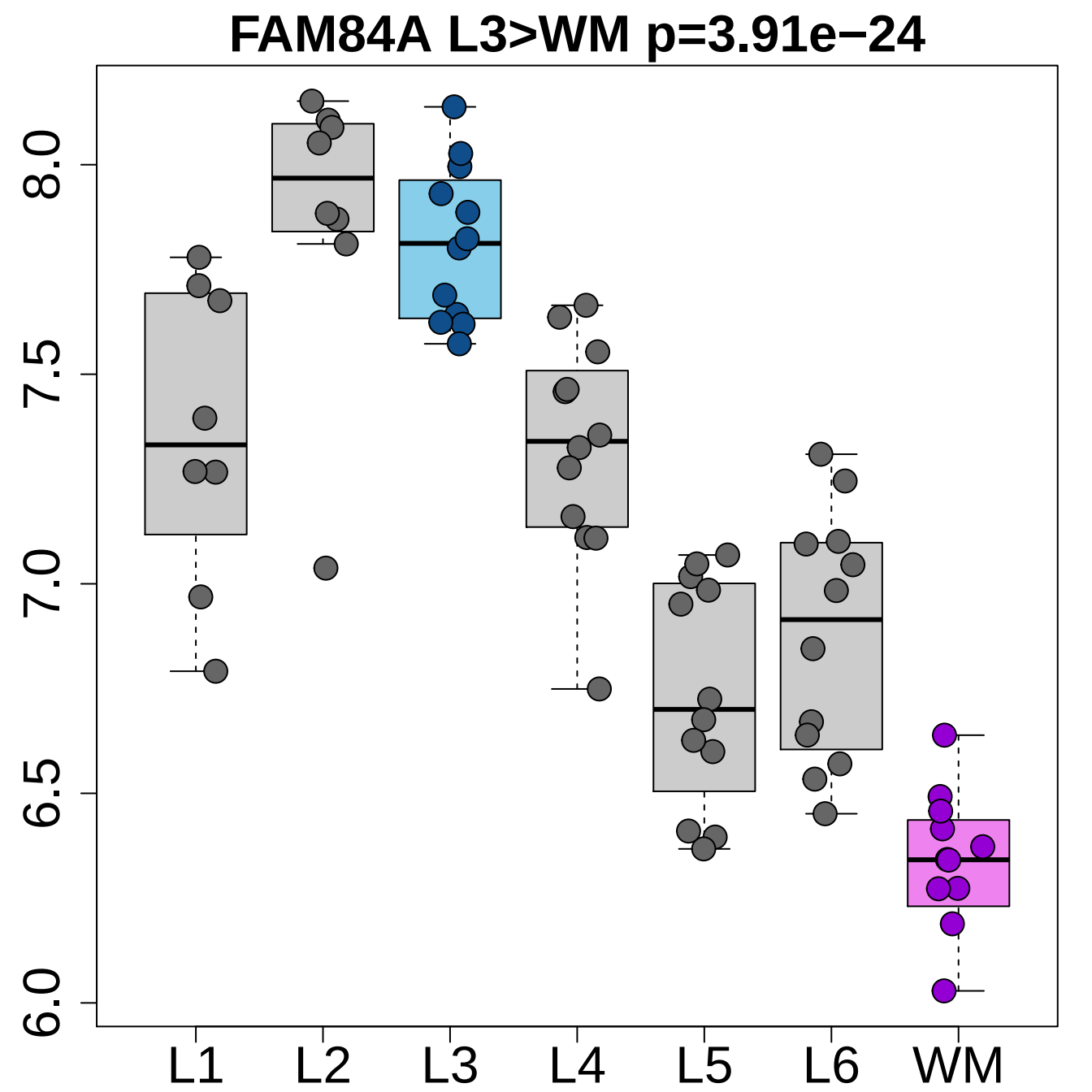

ASS1 L3>WM p=2.80e−26
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

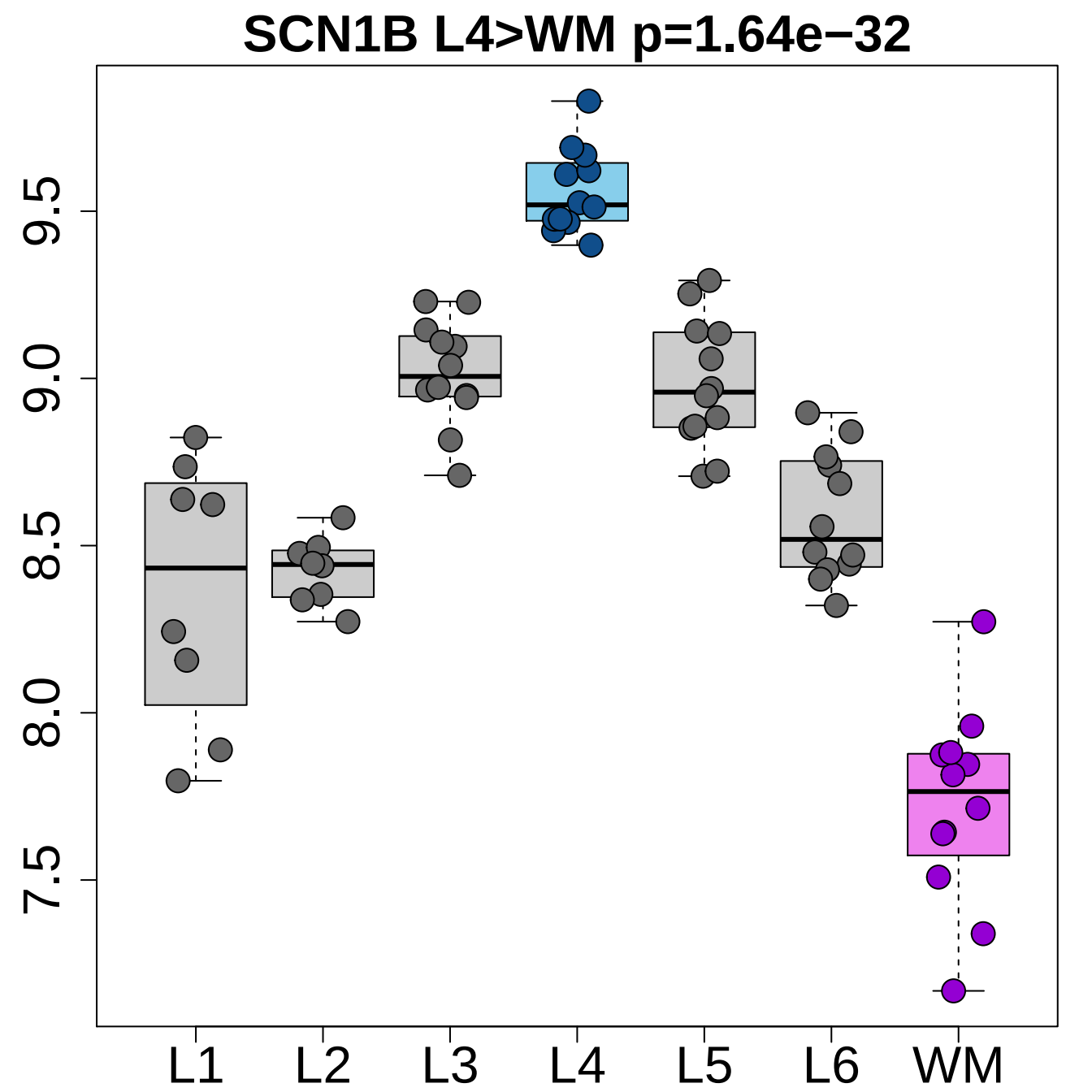

OLFM1 L3>WM p=6.13e−26
12.0
11.5
11.0
10.5
10.0
L1
L2
L3
L4
L5
L6
WM


CRYM L3>WM p=2.34e−25
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


HS6ST3 L3>WM p=7.97e−25
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


HAPLN4 L3>WM p=8.17e−25
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


FAM84A L3>WM p=3.91e−24
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


SCN1B L4>WM p=1.64e−32
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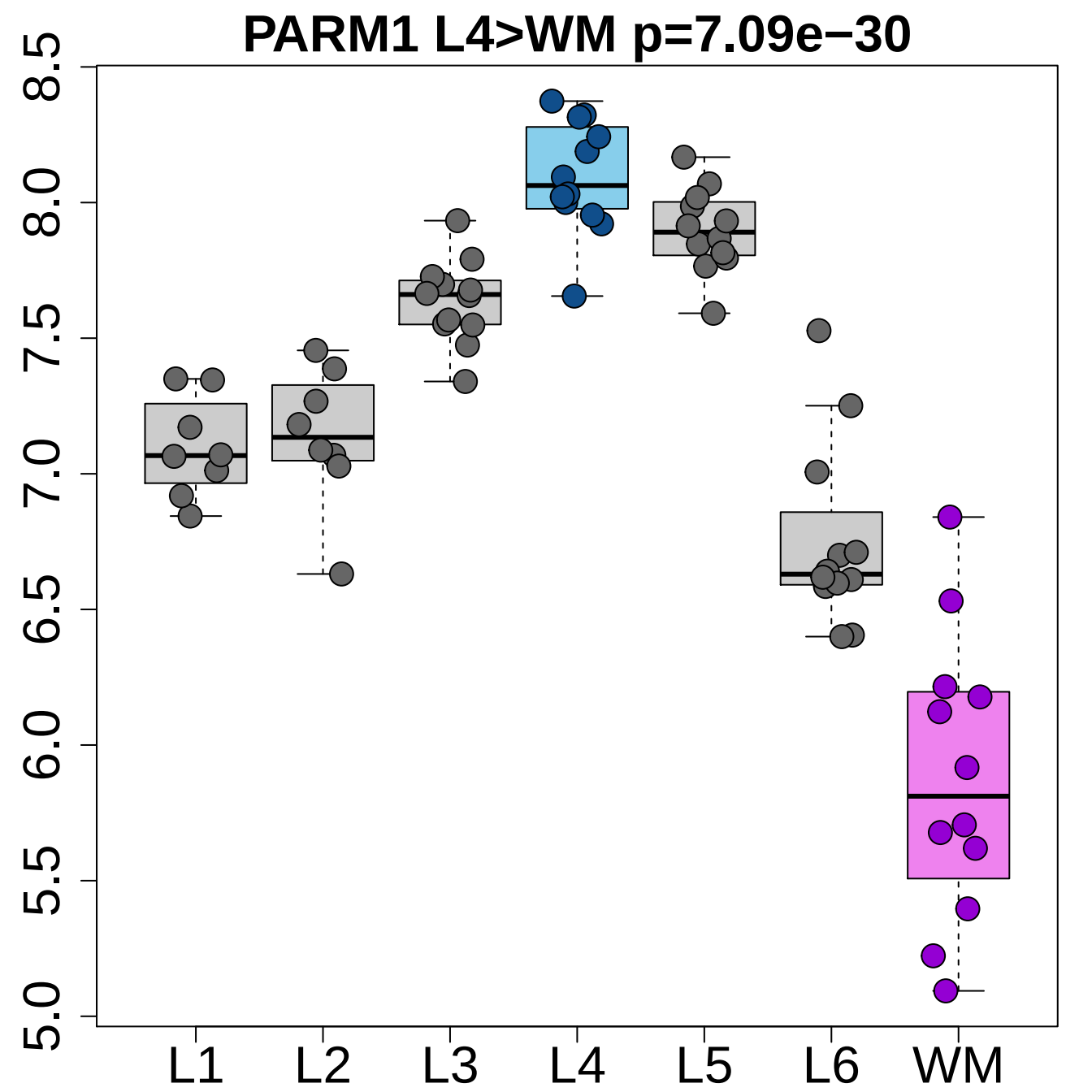
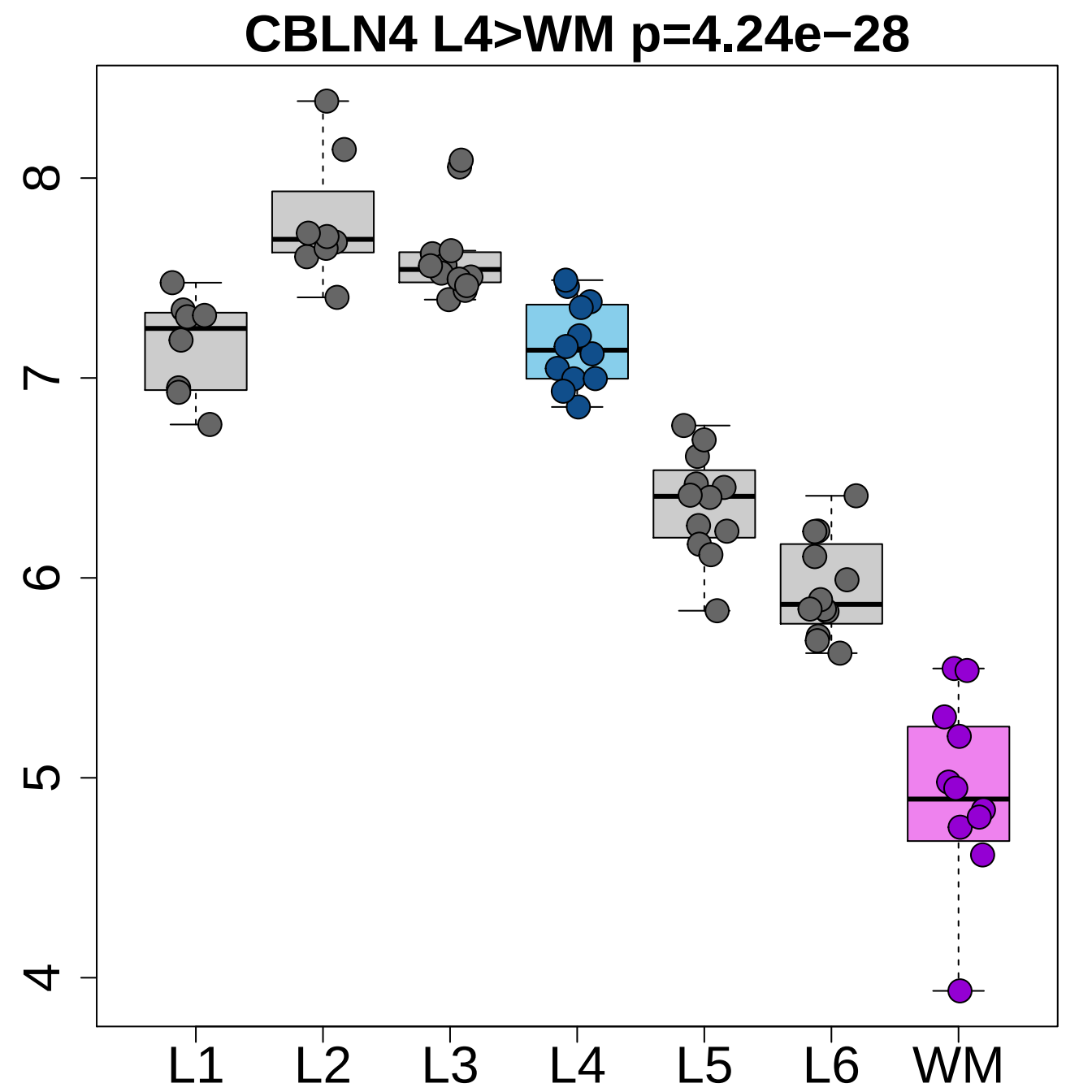
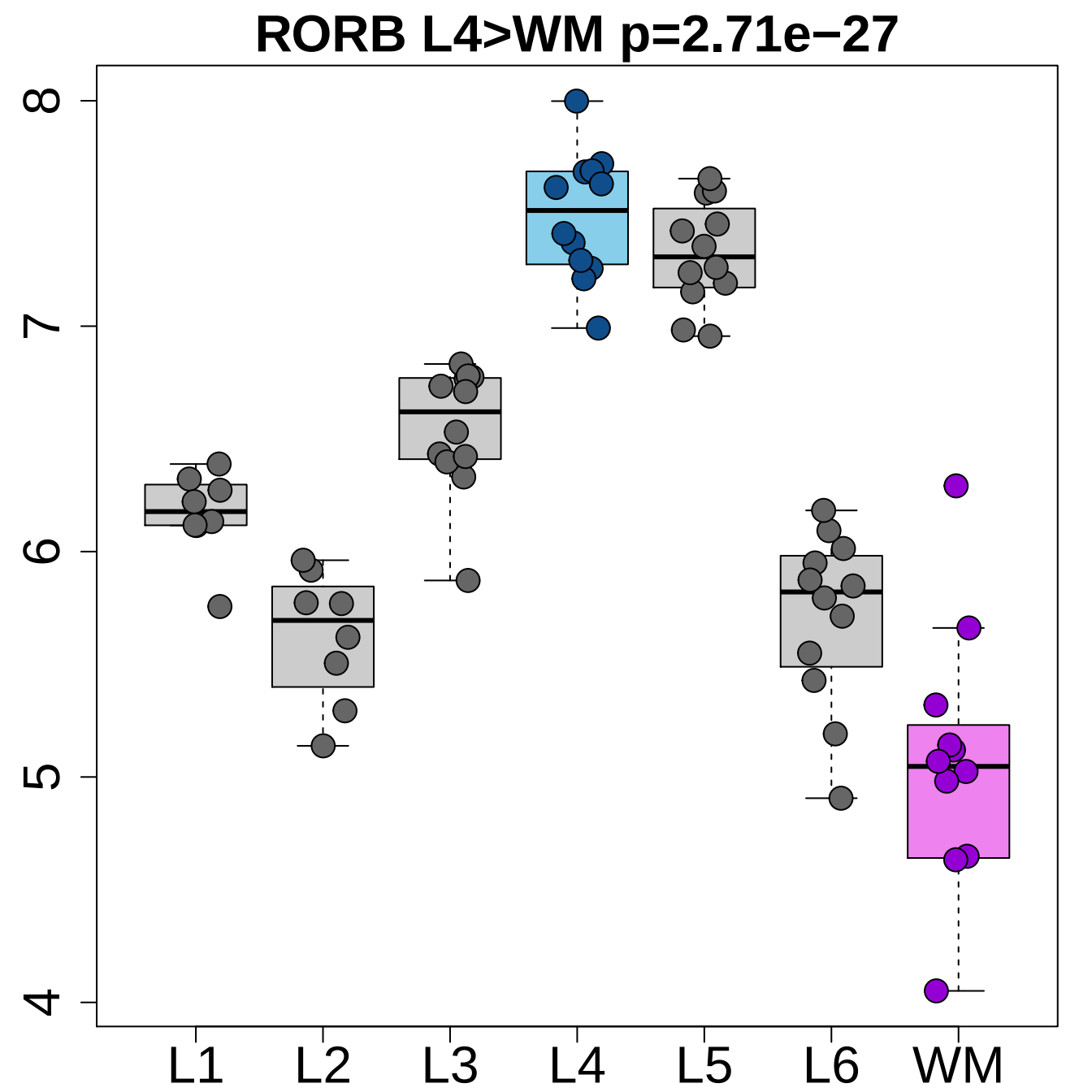
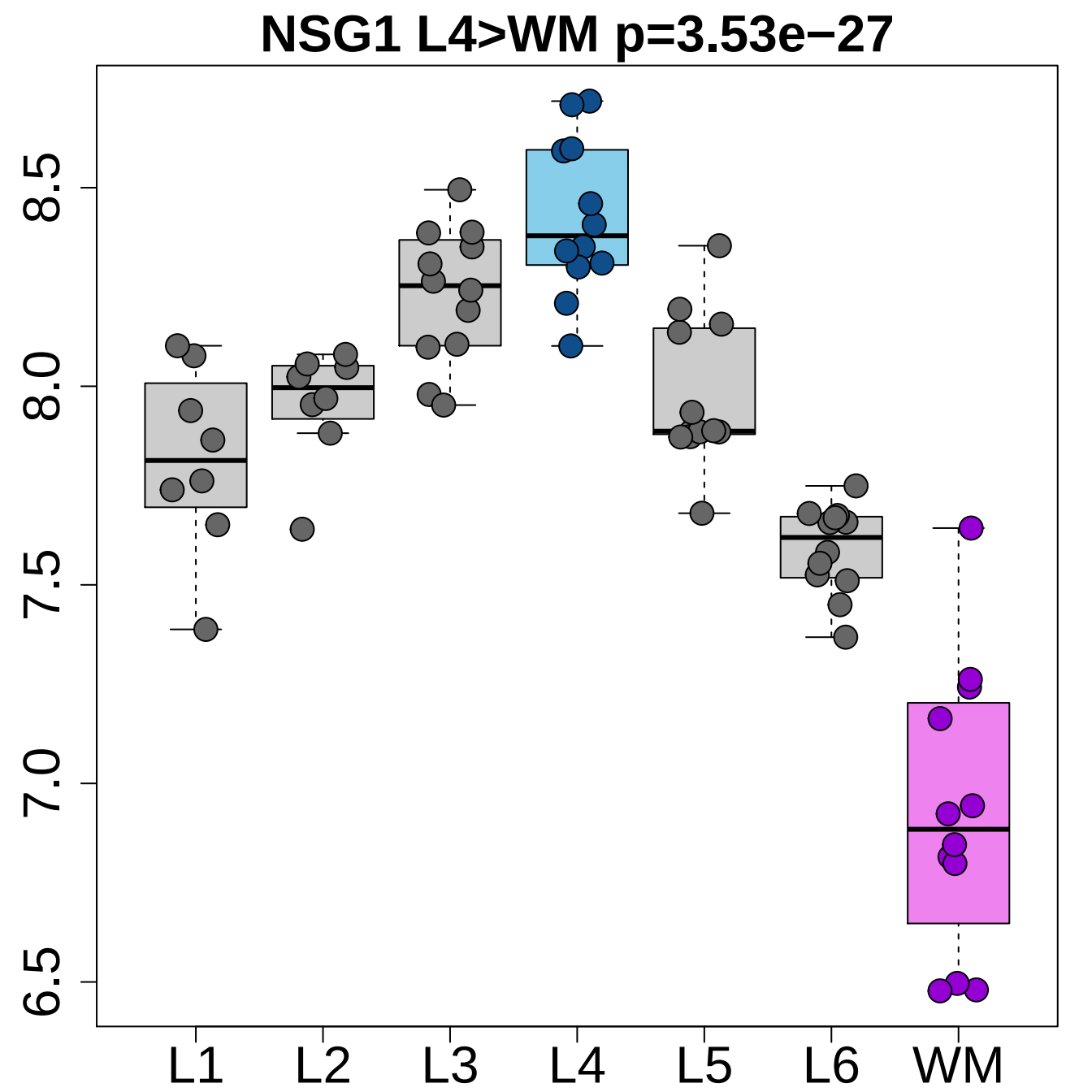
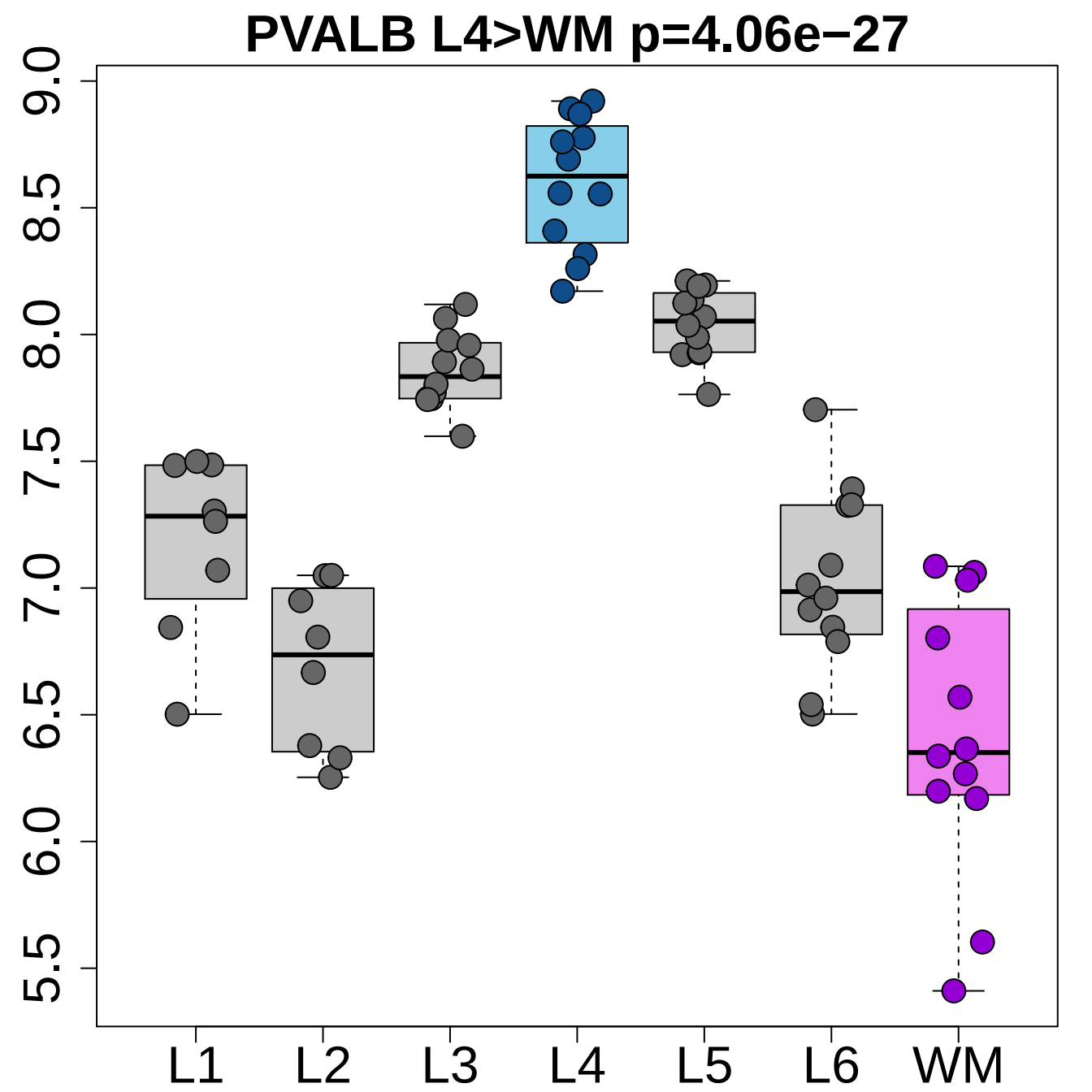
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

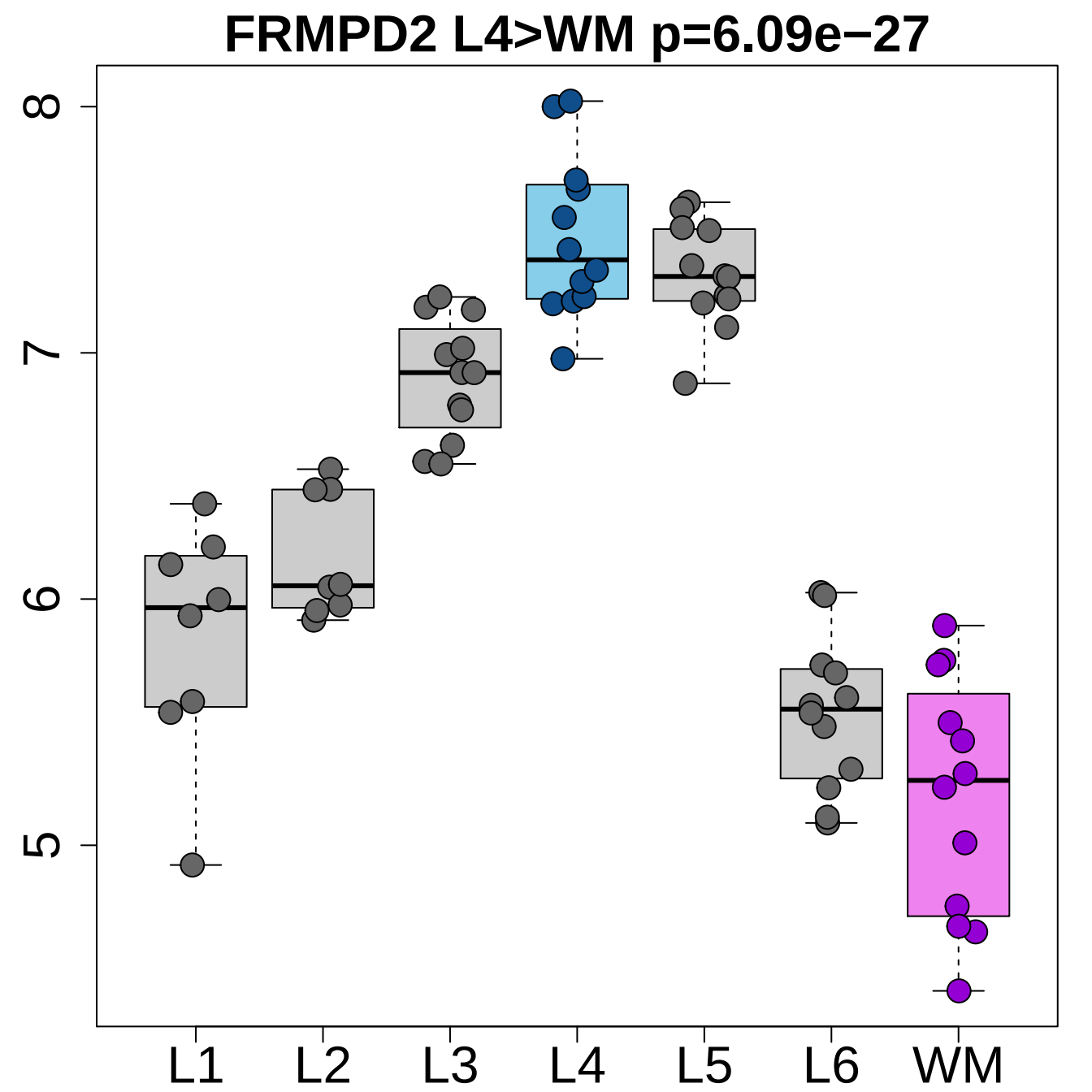

PARM1 L4>WM p=7.09e−30
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

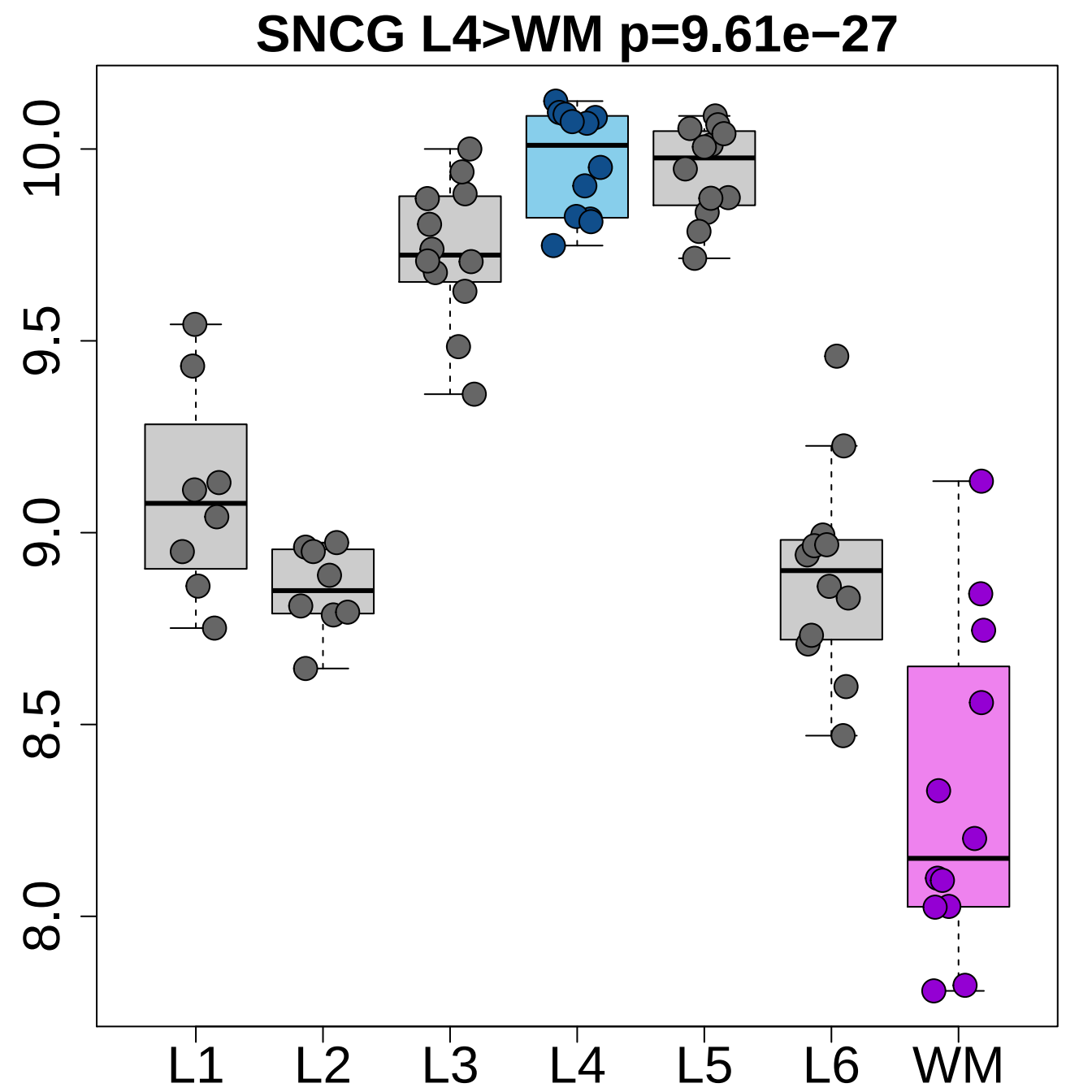

CBLN4 L4>WM p=4.24e−28
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

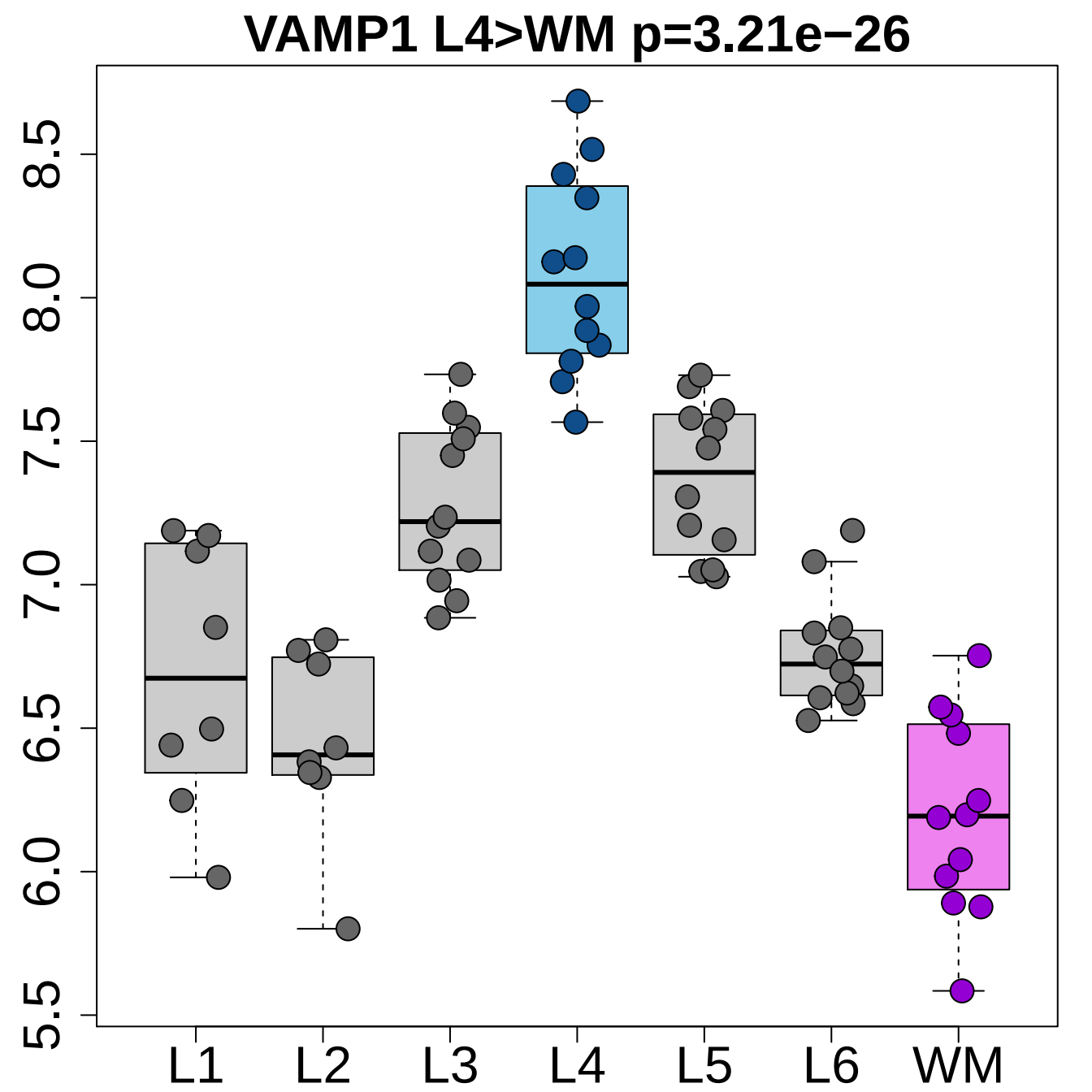

RORB L4>WM p=2.71e−27
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

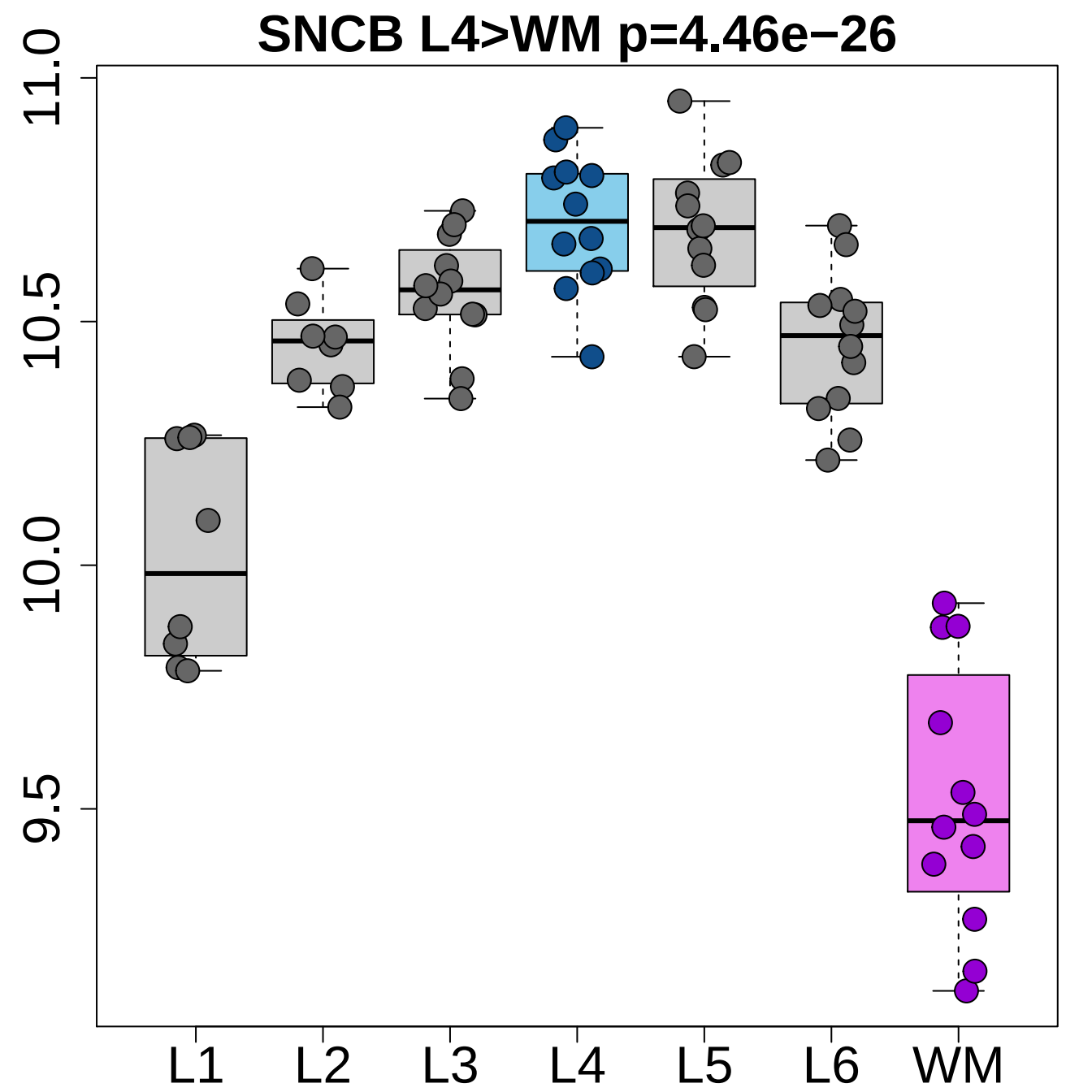

NSG1 L4>WM p=3.53e−27
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

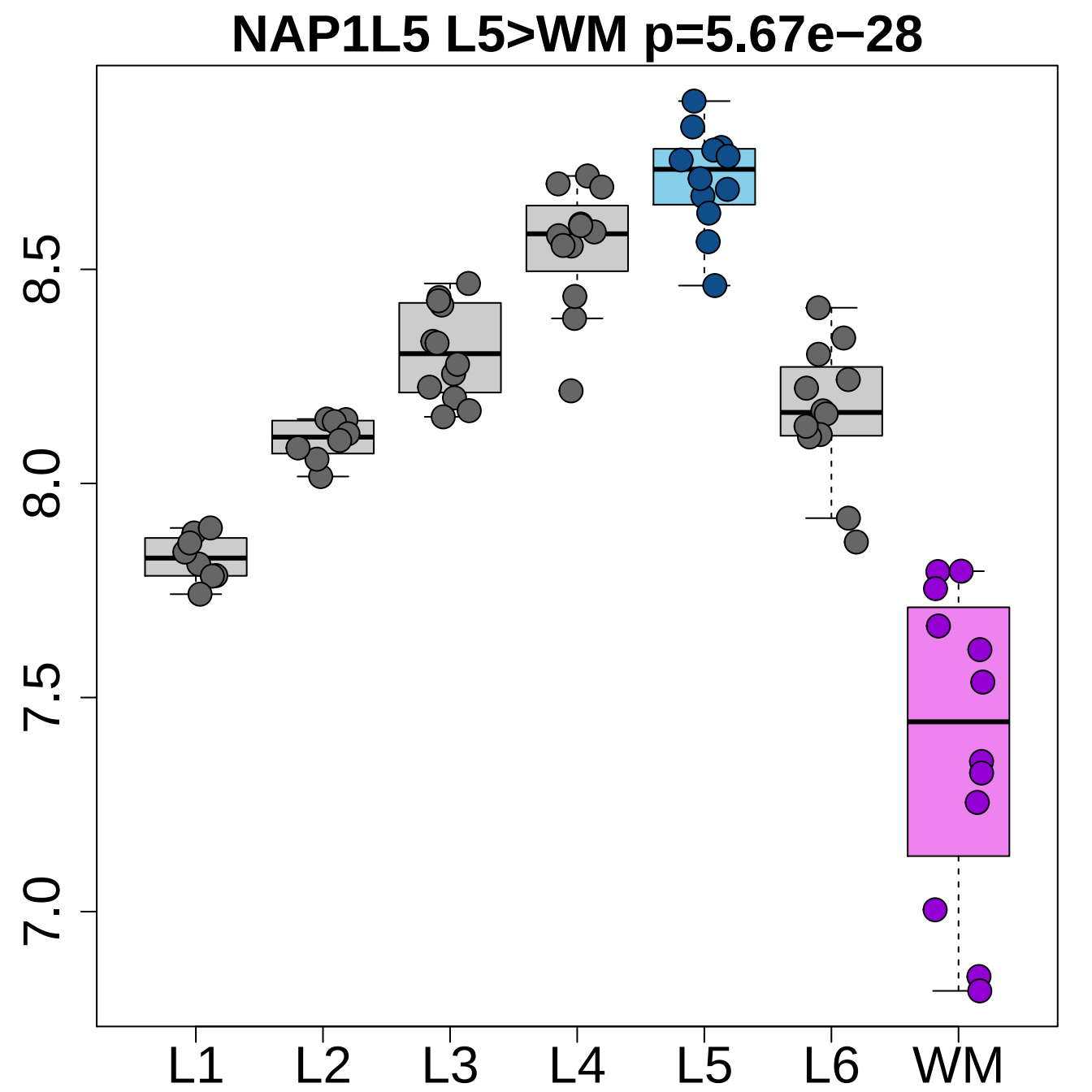

PVALB L4>WM p=4.06e−27
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

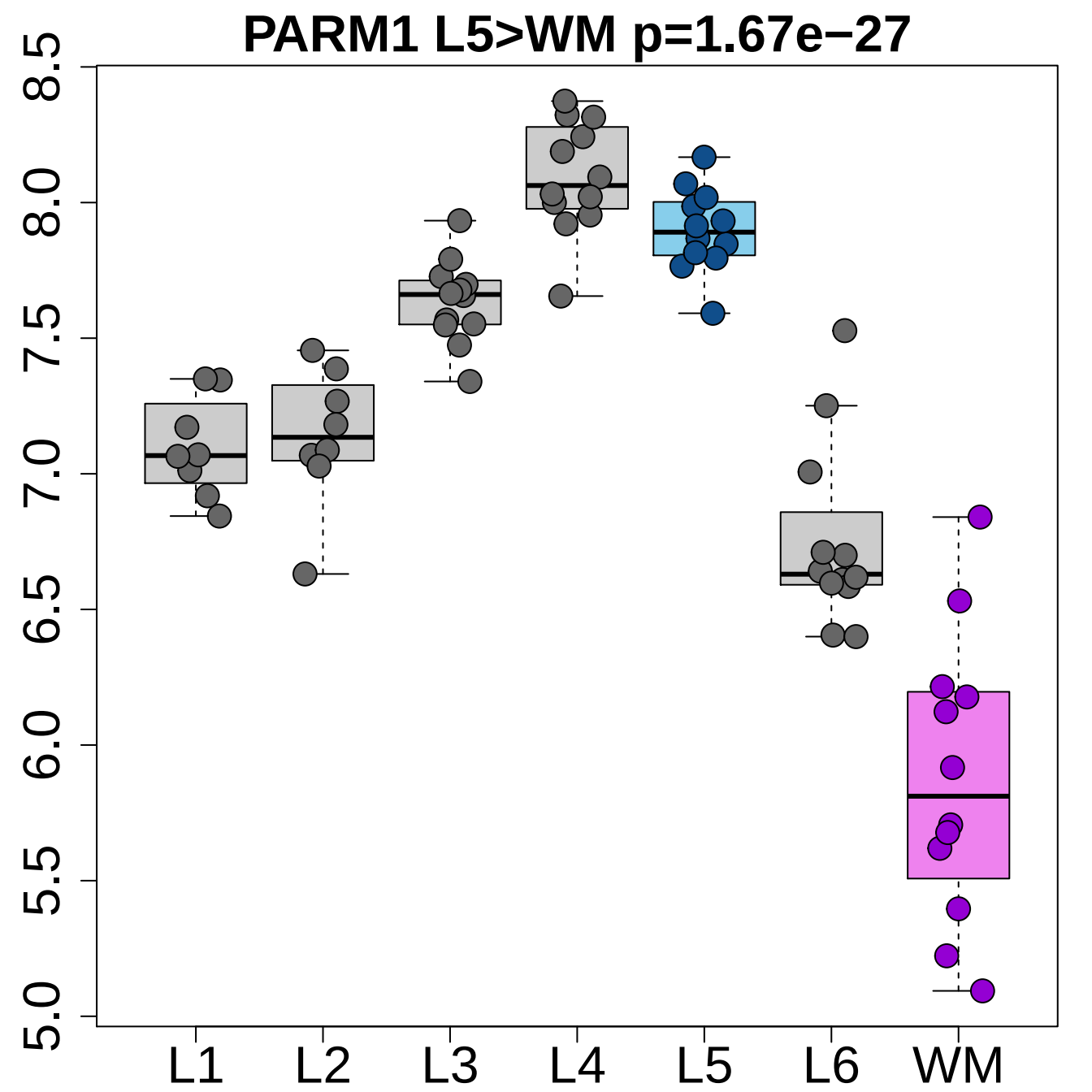

FRMPD2 L4>WM p=6.09e−27
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

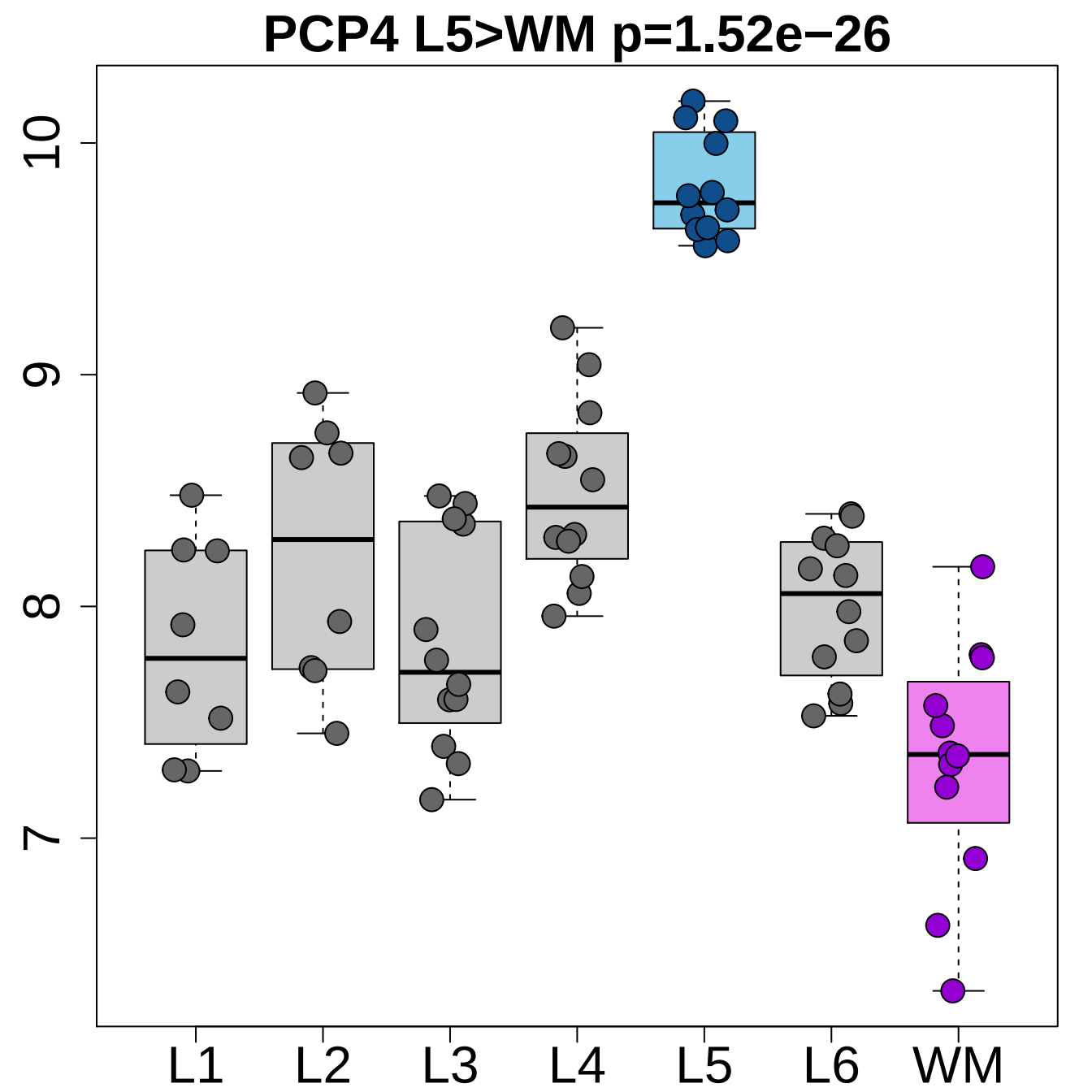

SNCG L4>WM p=9.61e−27
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

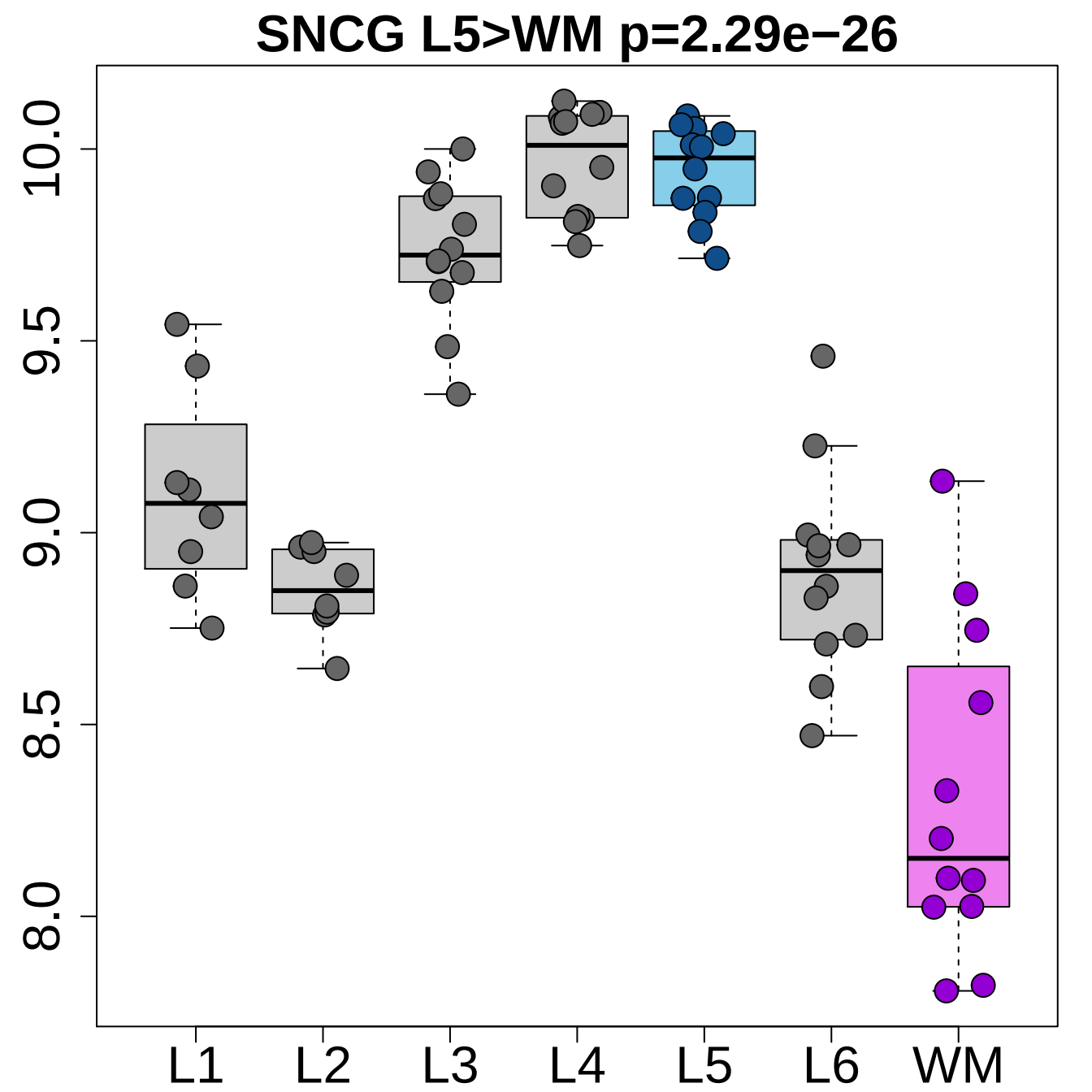

VAMP1 L4>WM p=3.21e−26
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

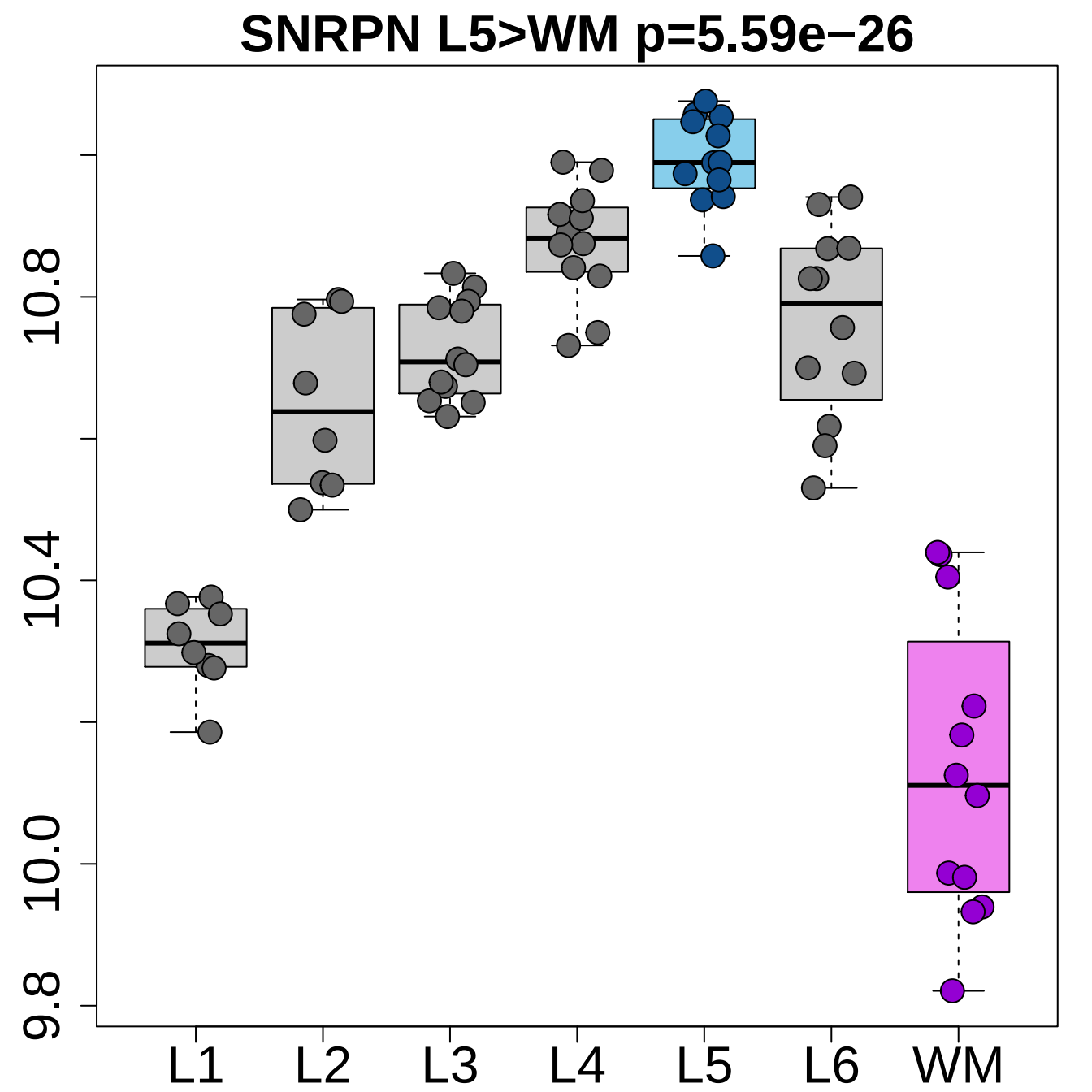

SNCB L4>WM p=4.46e−26
11.0
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM

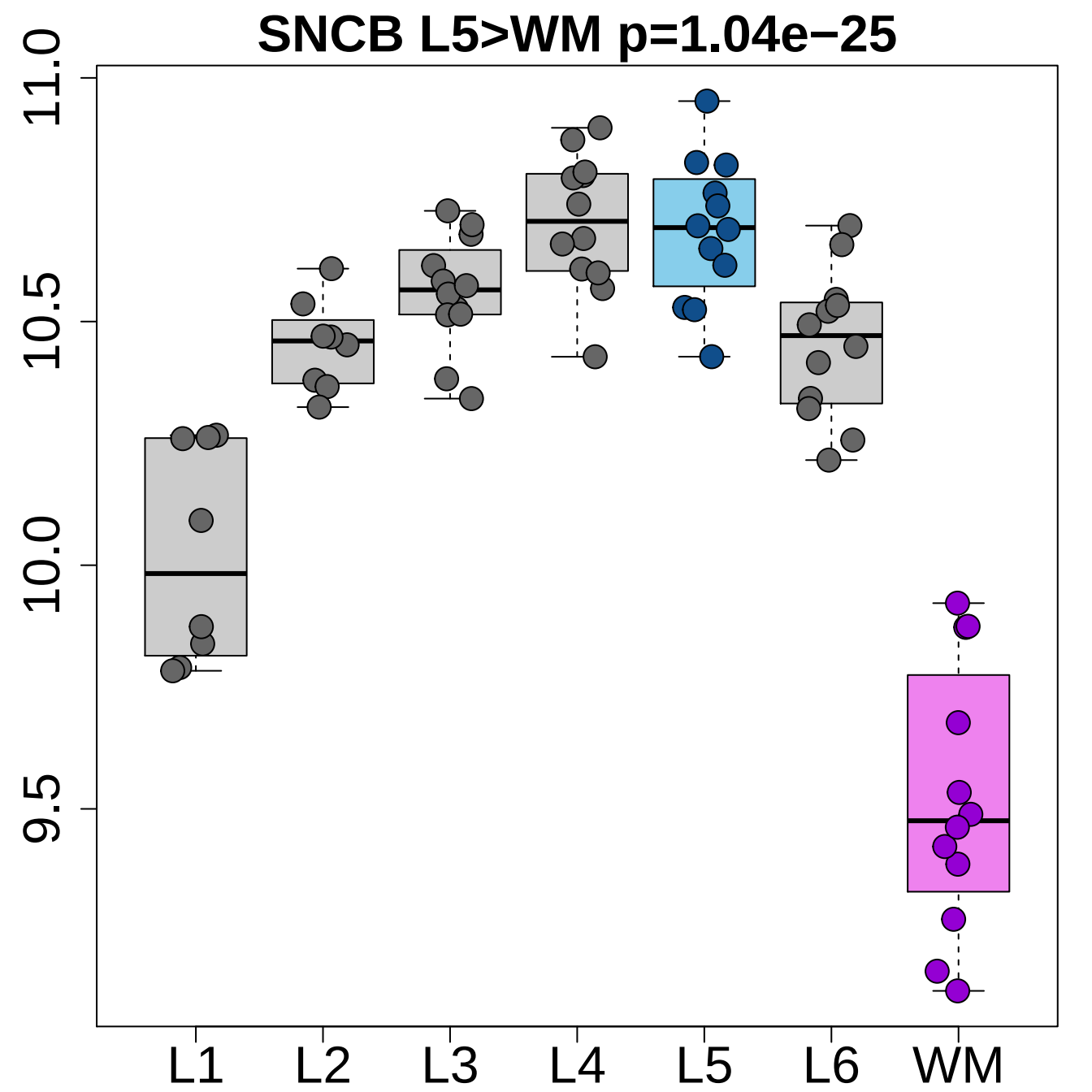

NAP1L5 L5>WM p=5.67e−28
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

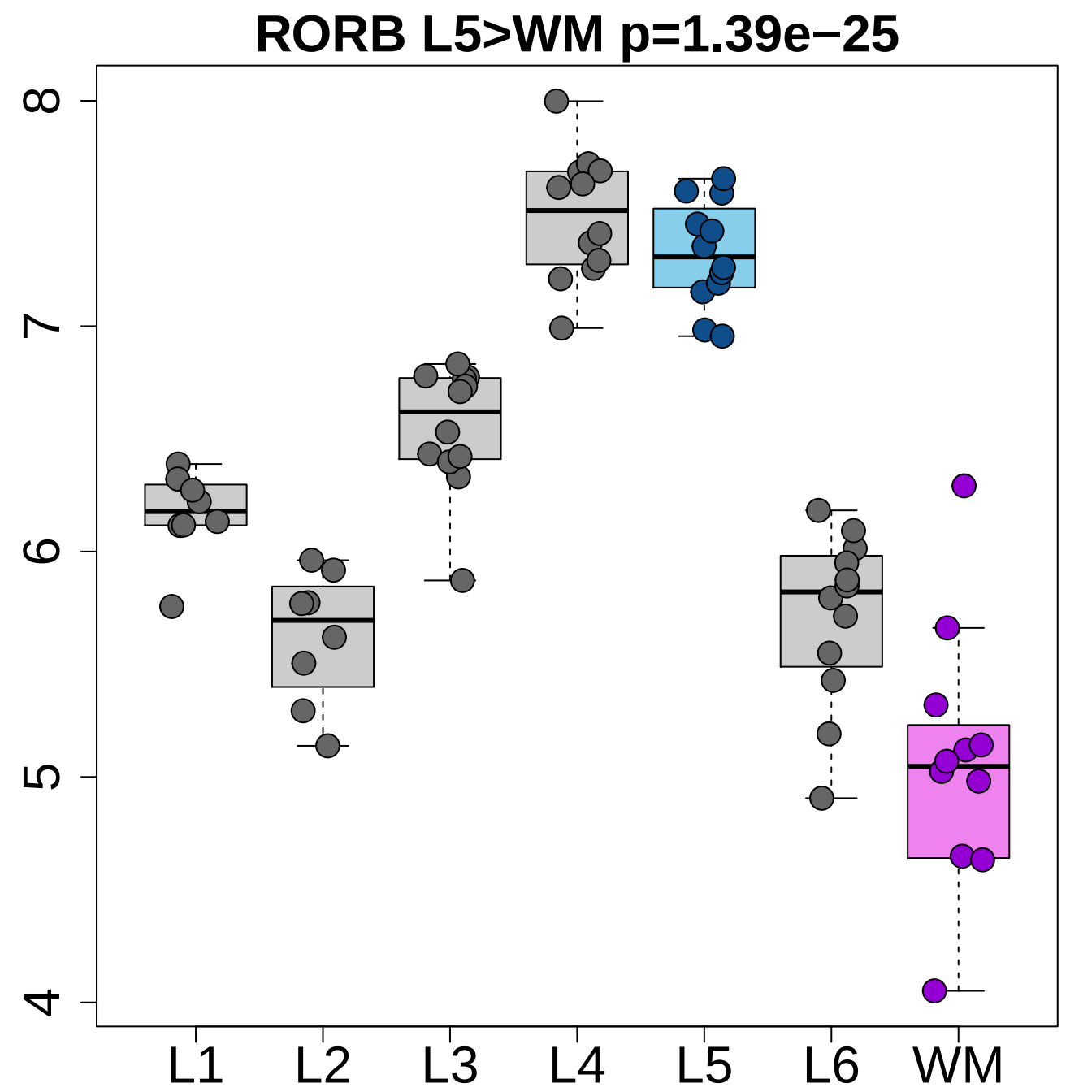

PARM1 L5>WM p=1.67e−27
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

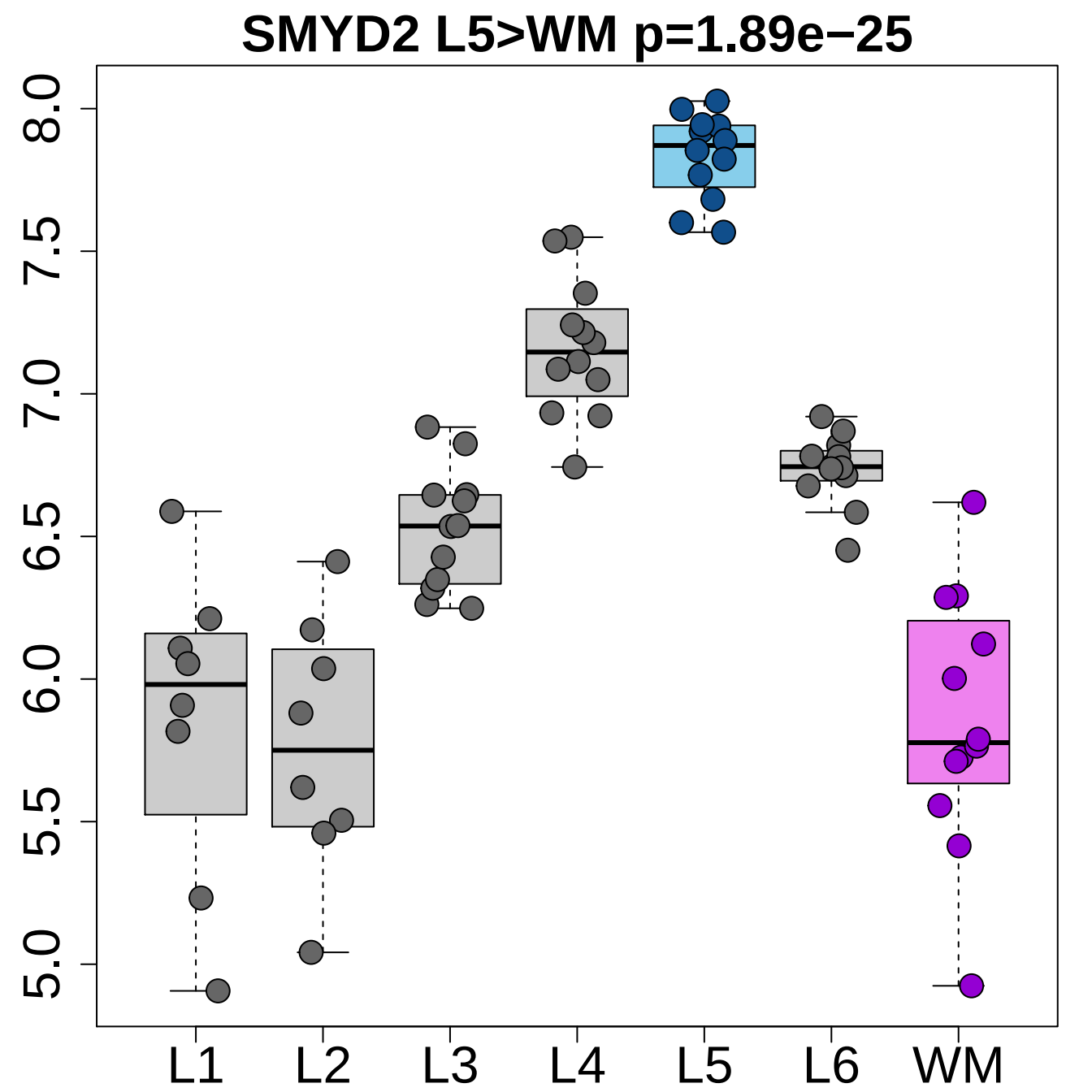

PCP4 L5>WM p=1.52e−26
10
9
8
7
L1
L2
L3
L4
L5
L6
WM

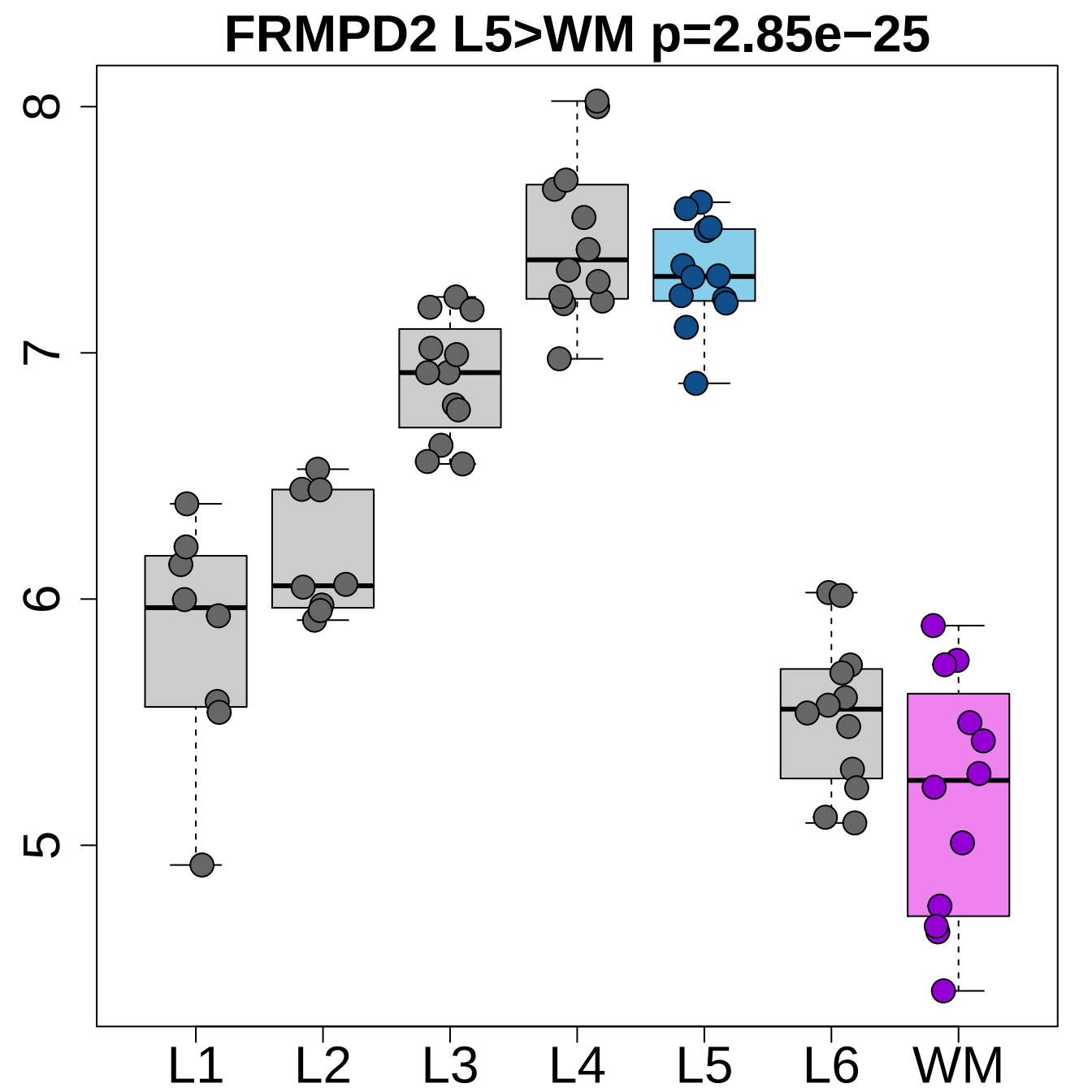

SNCG L5>WM p=2.29e−26
10.0
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

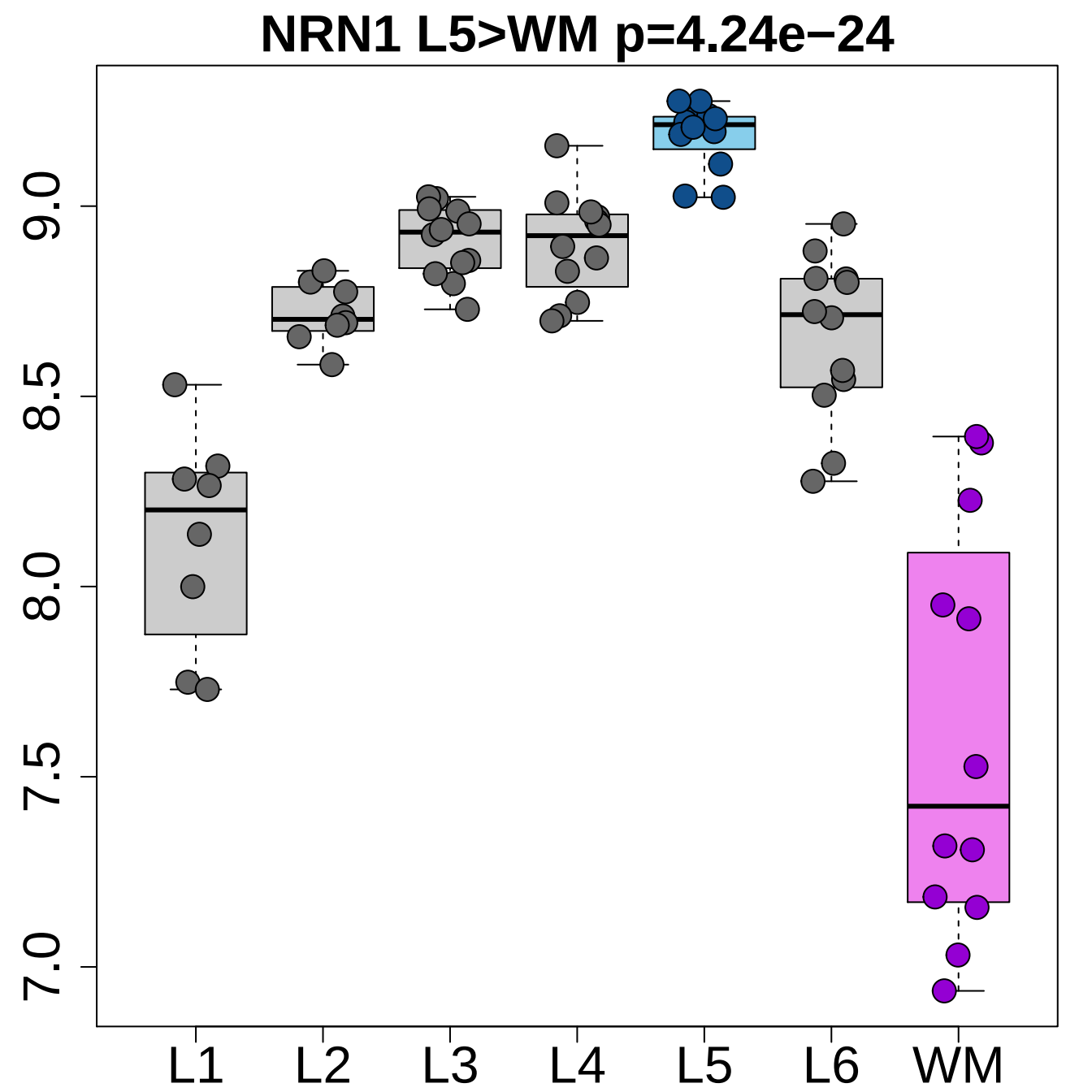

SNRPN L5>WM p=5.59e−26
10.8
10.4
10.0
9.8
L1
L2
L3
L4
L5
L6
WM

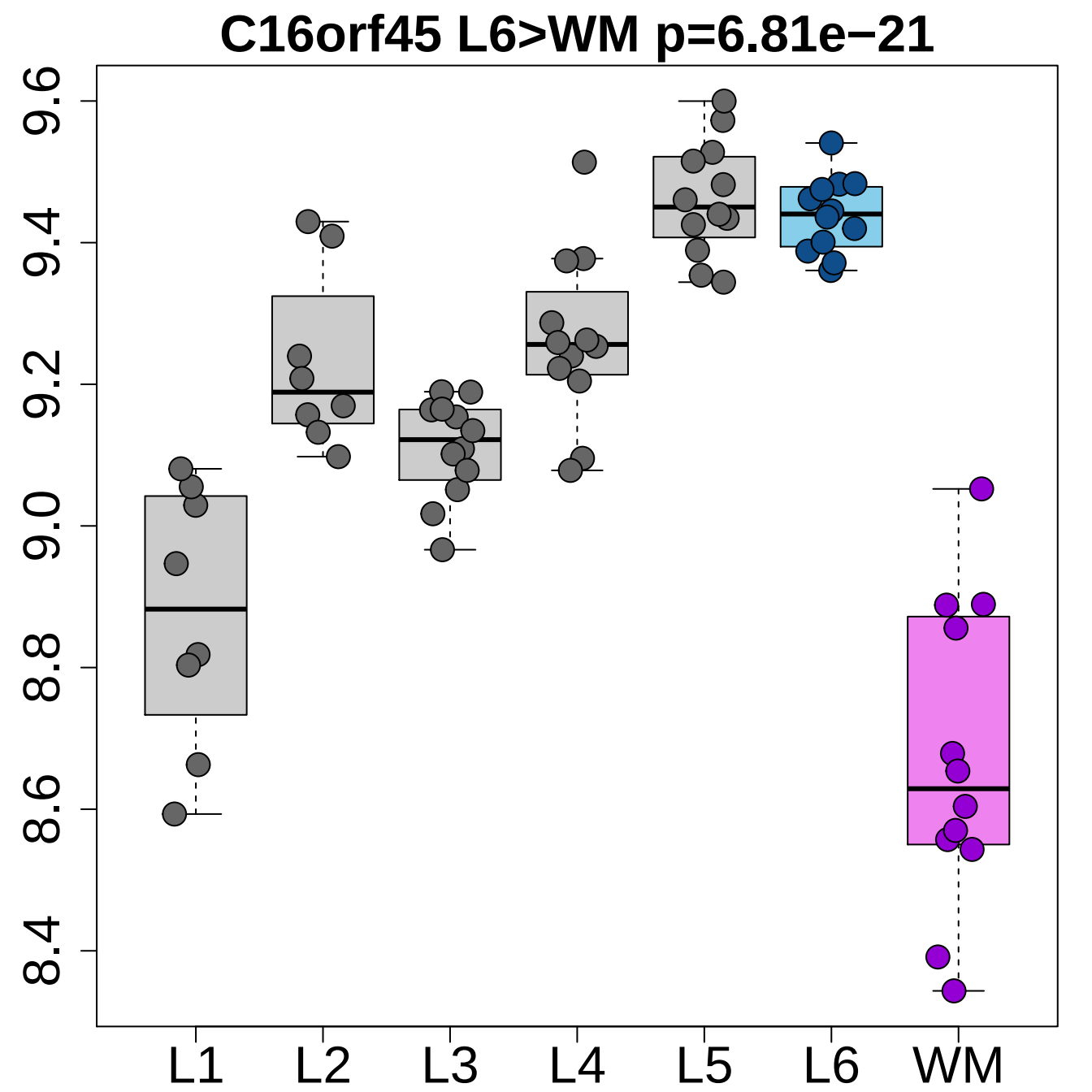

SNCB L5>WM p=1.04e−25
11.0
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM

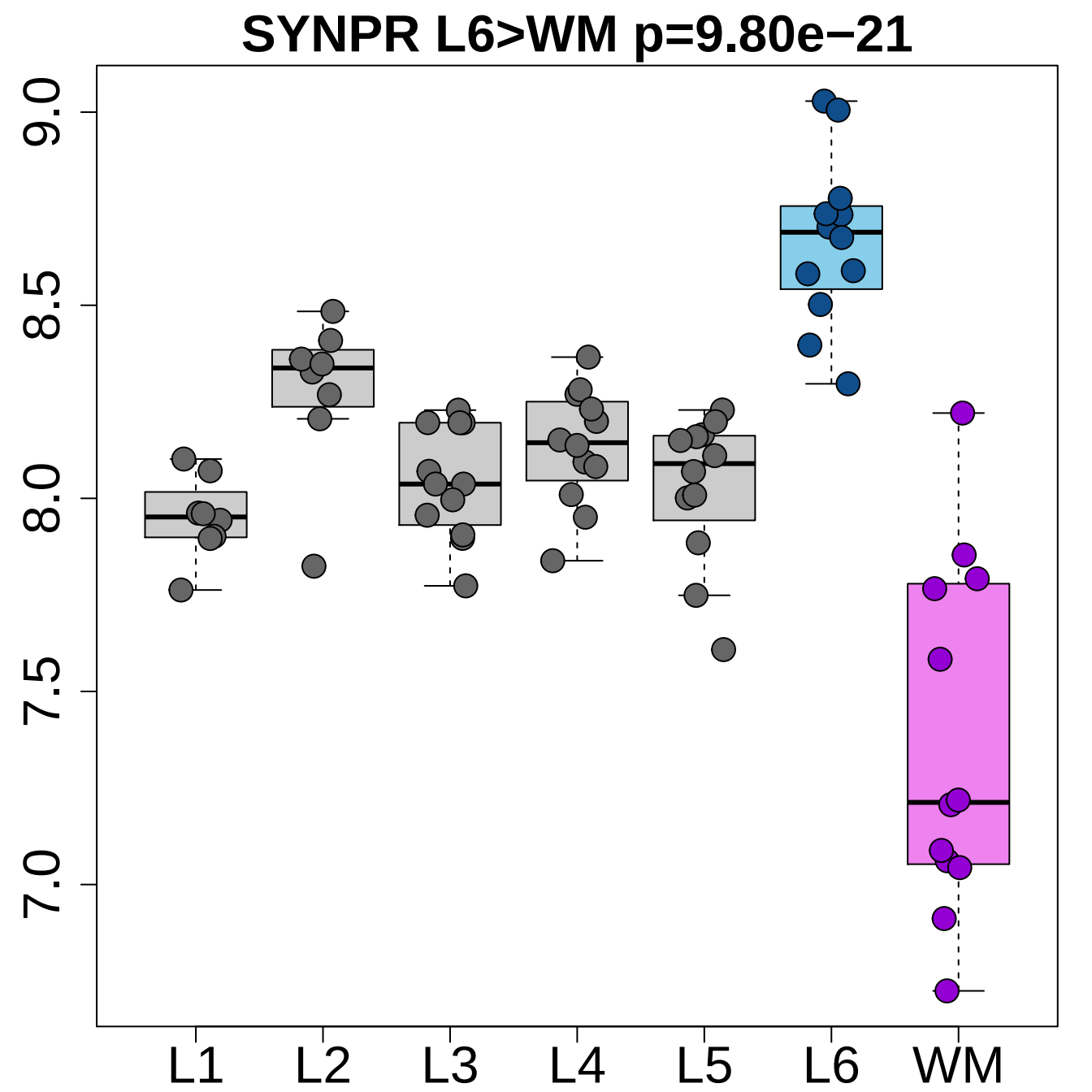

RORB L5>WM p=1.39e−25
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

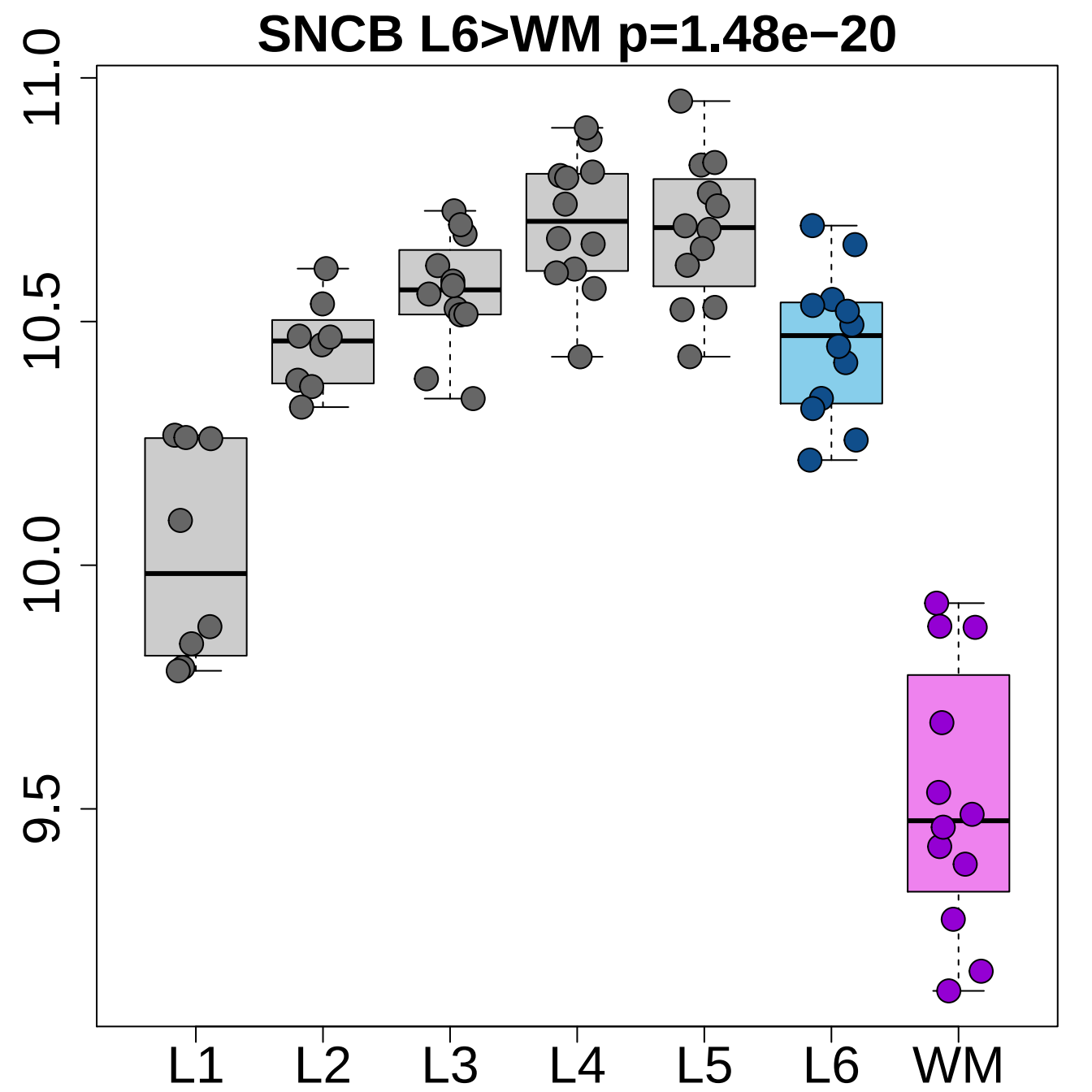

SMYD2 L5>WM p=1.89e−25
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

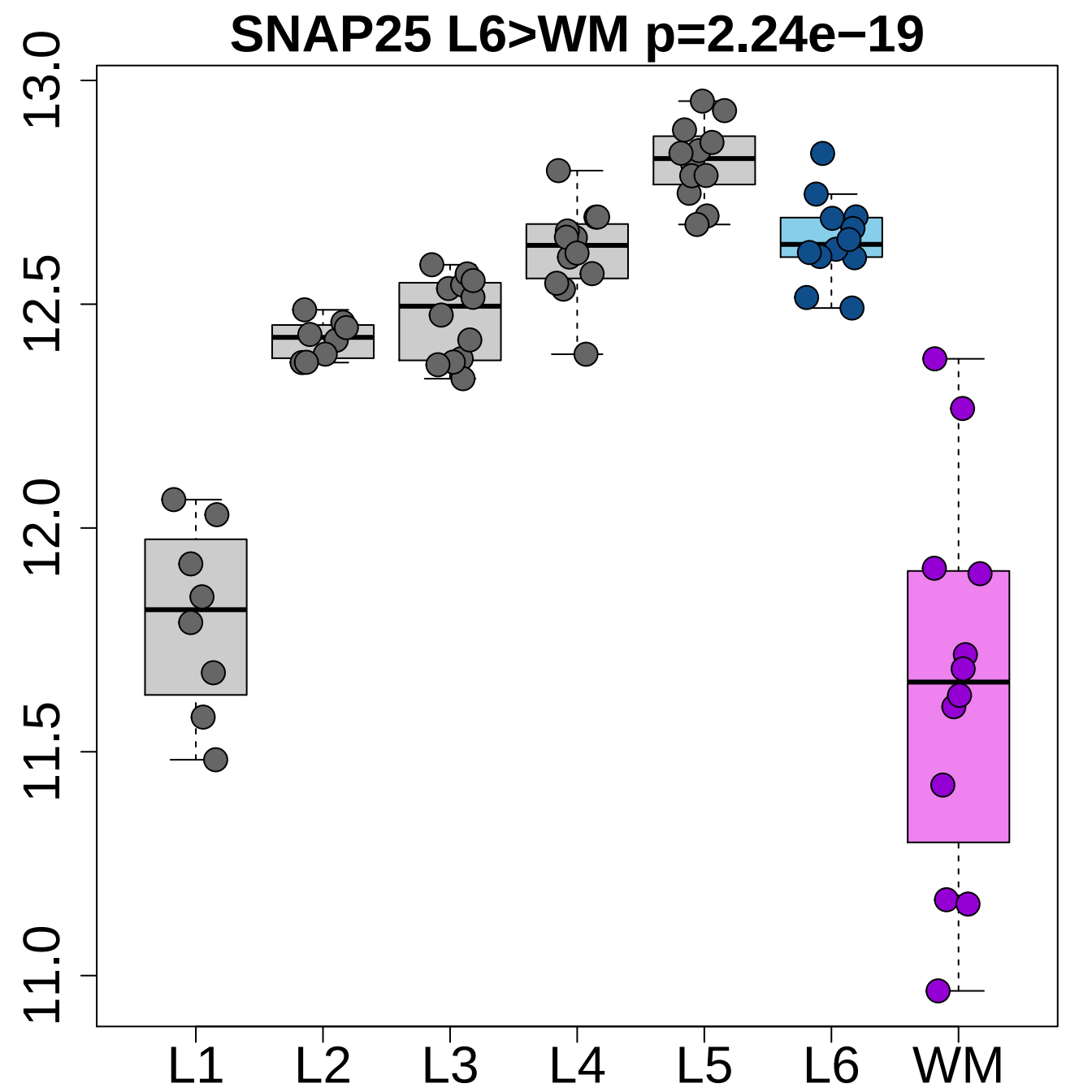

FRMPD2 L5>WM p=2.85e−25
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

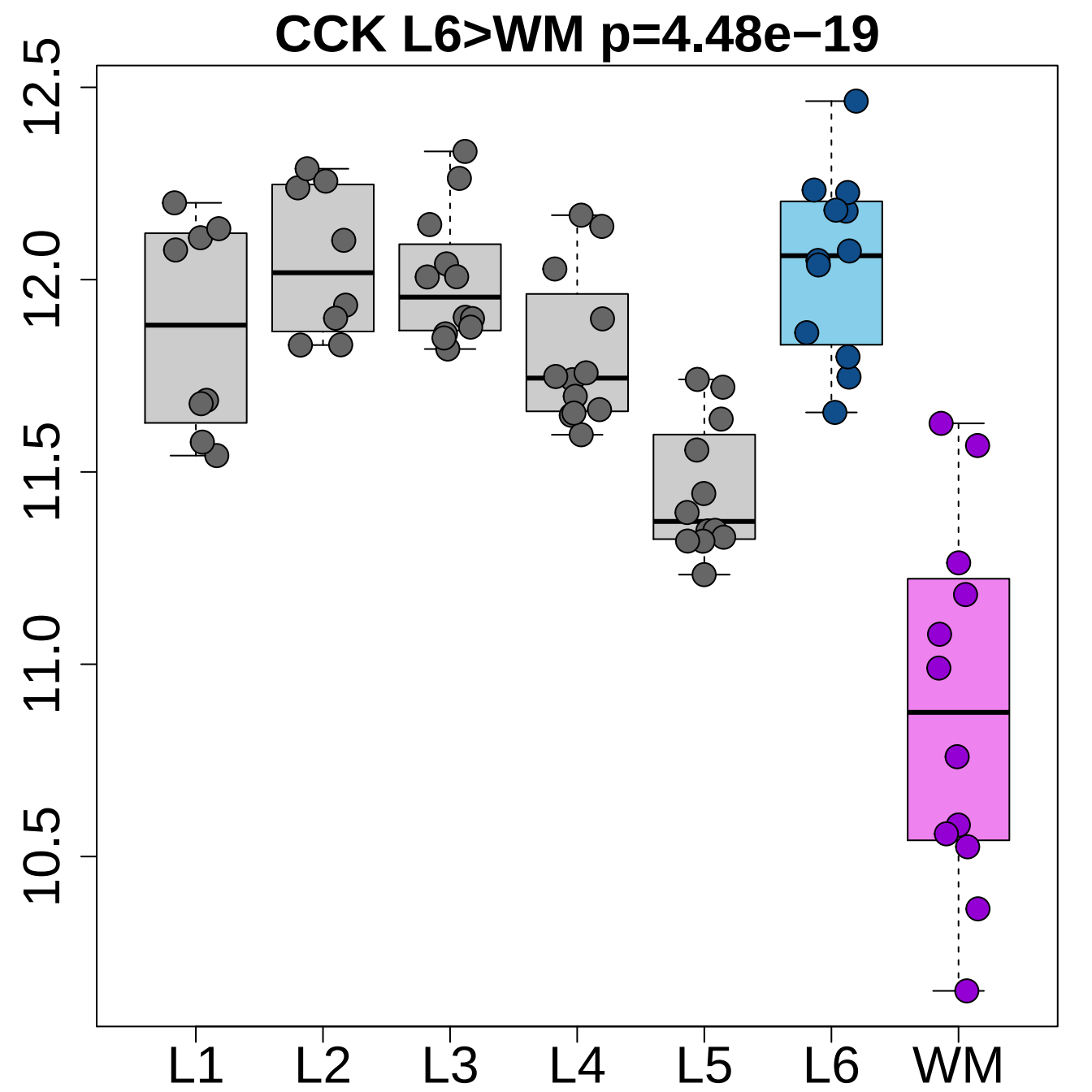

NRN1 L5>WM p=4.24e−24
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

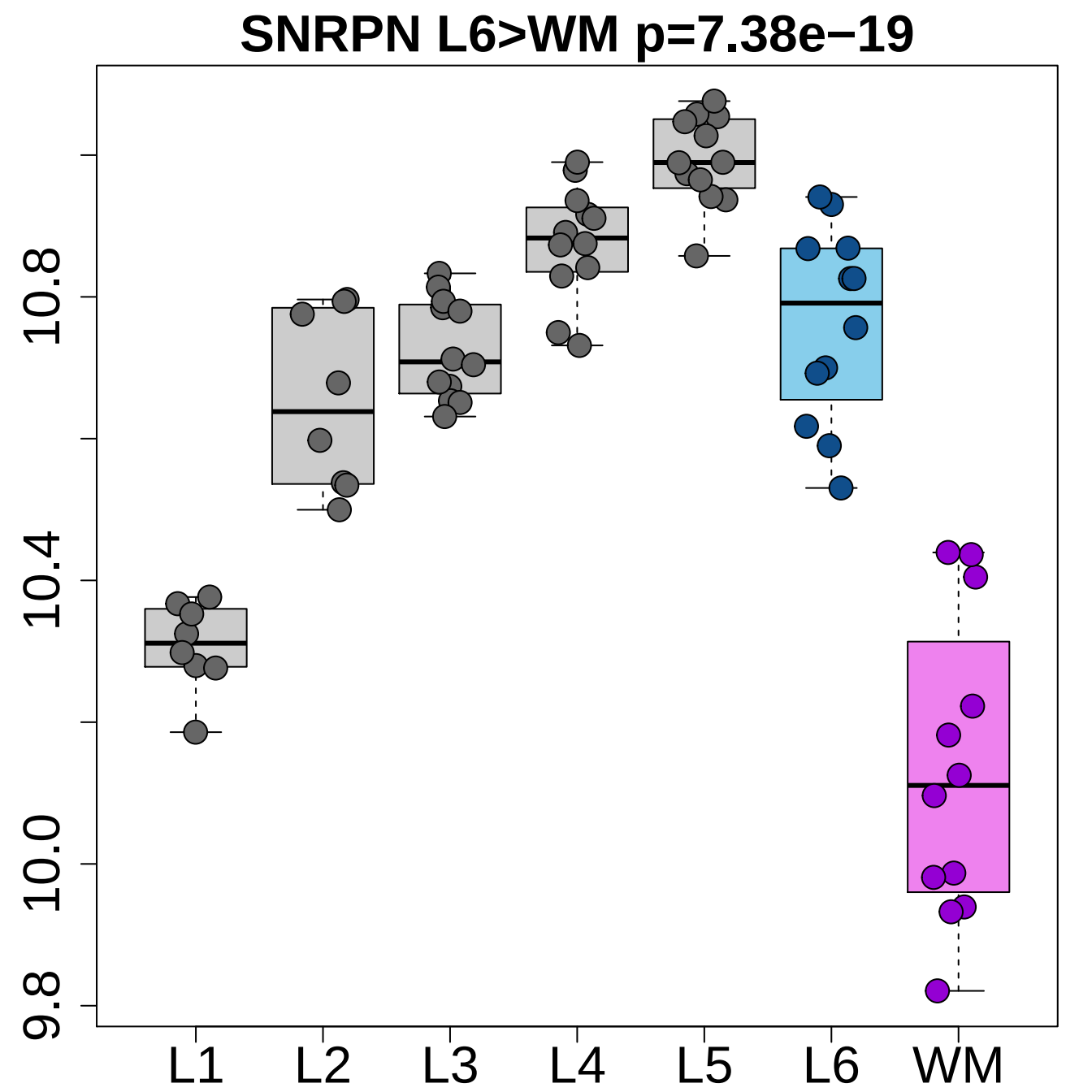

C16orf45 L6>WM p=6.81e−21
9.6
9.4
9.2
9.0
8.8
8.6
8.4
L1
L2
L3
L4
L5
L6
WM

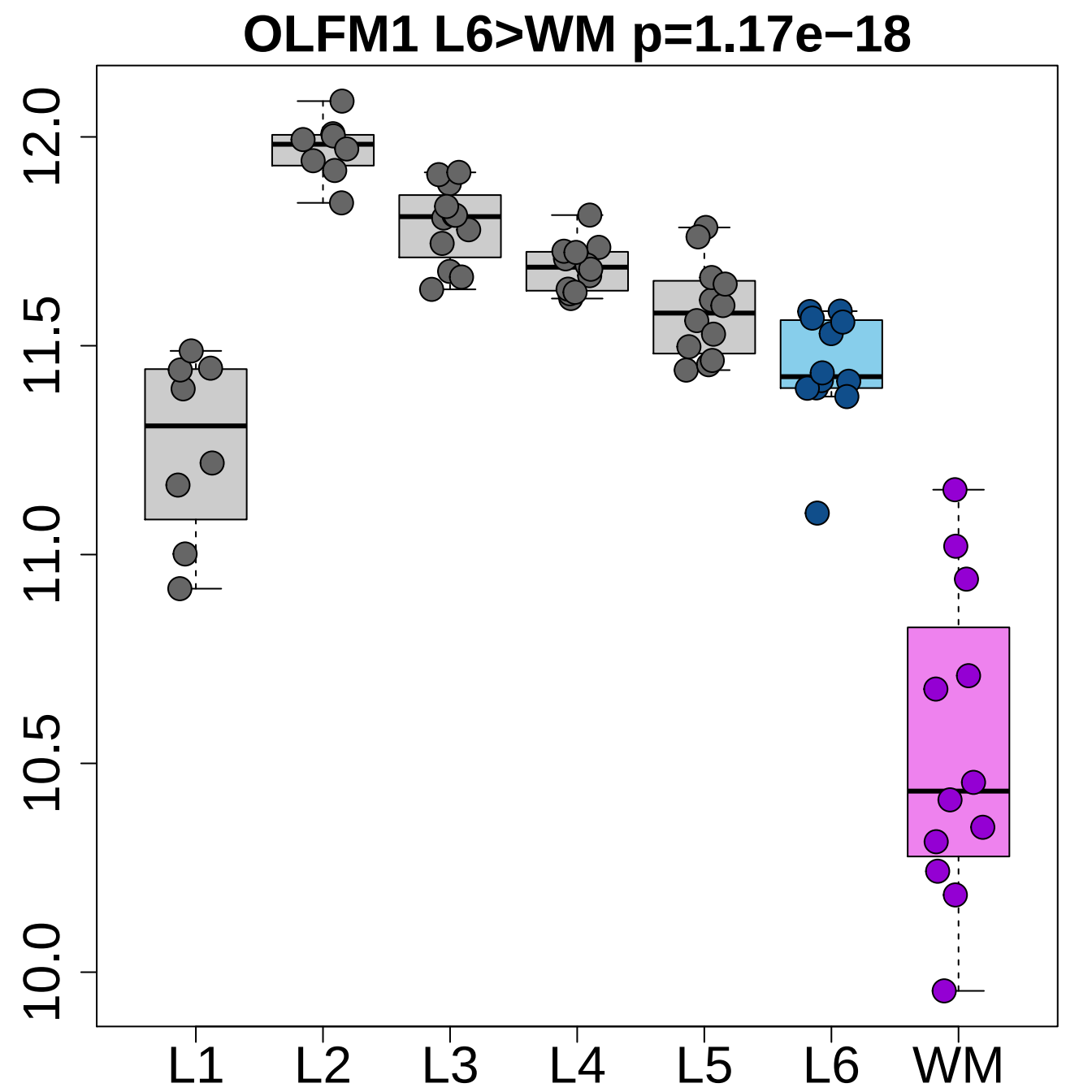

SYNPR L6>WM p=9.80e−21
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

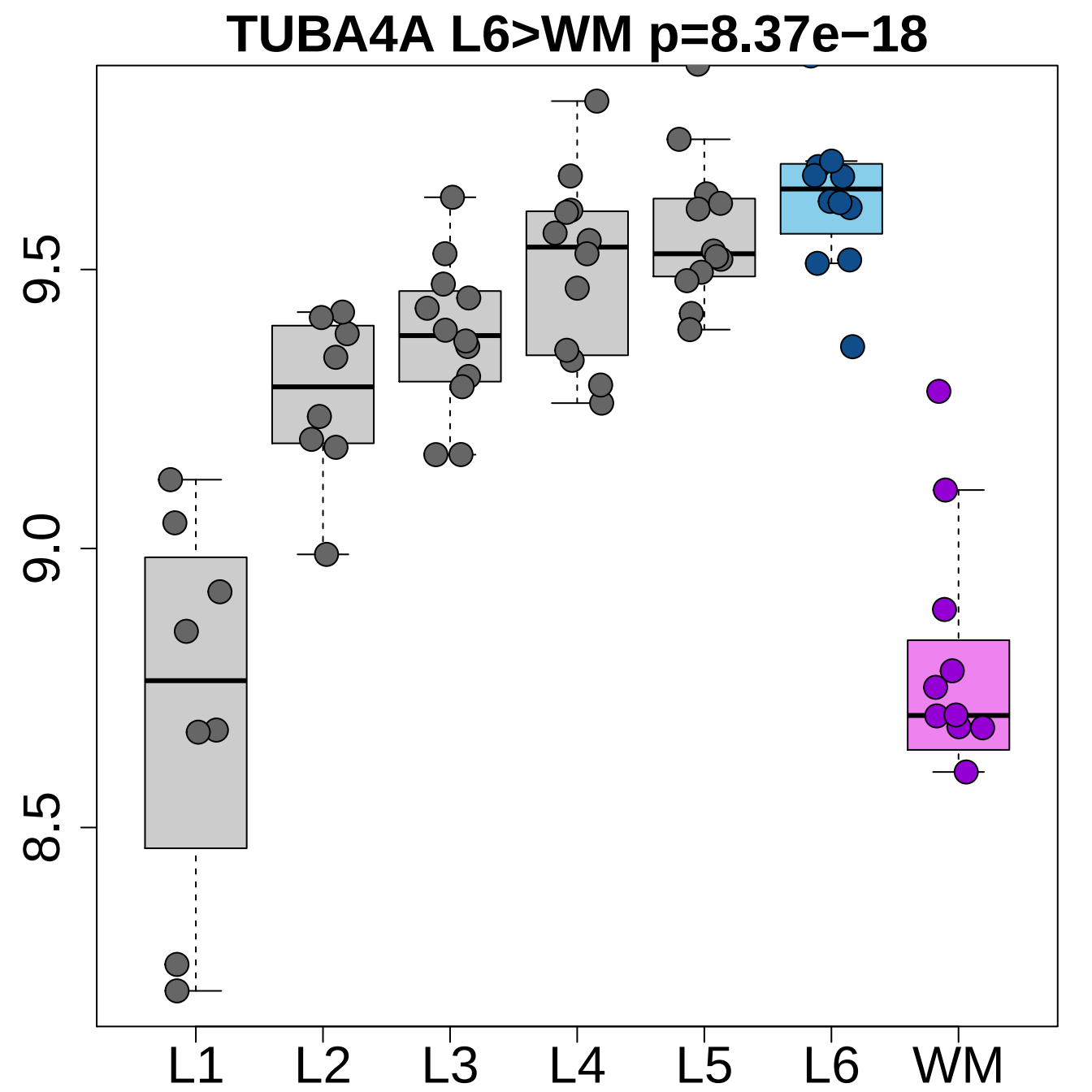

SNCB L6>WM p=1.48e−20
11.0
10.5
10.0
9.5
L1
L2
L3
L4
L5
L6
WM

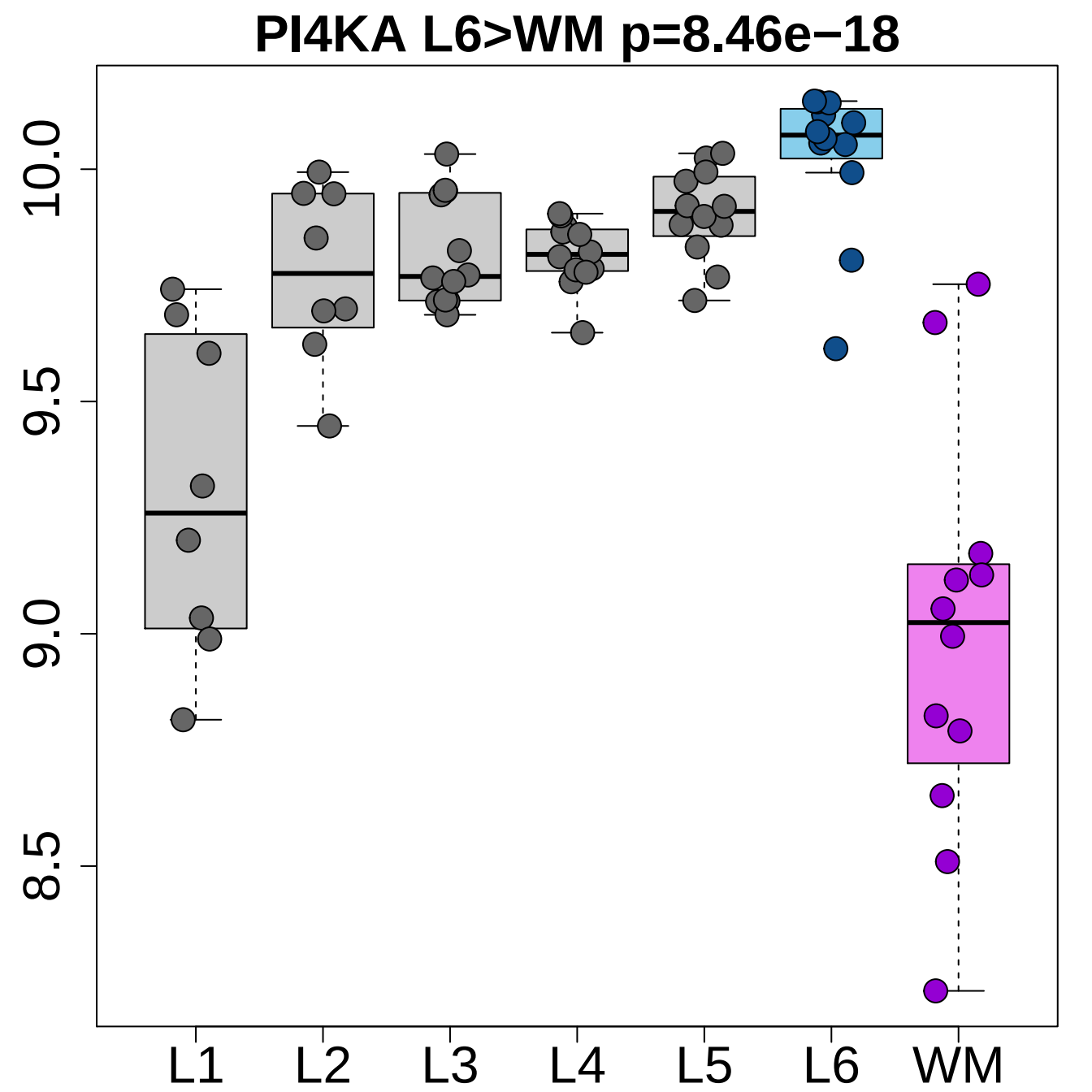

SNAP25 L6>WM p=2.24e−19
13.0
12.5
12.0
11.5
11.0
L1
L2
L3
L4
L5
L6
WM

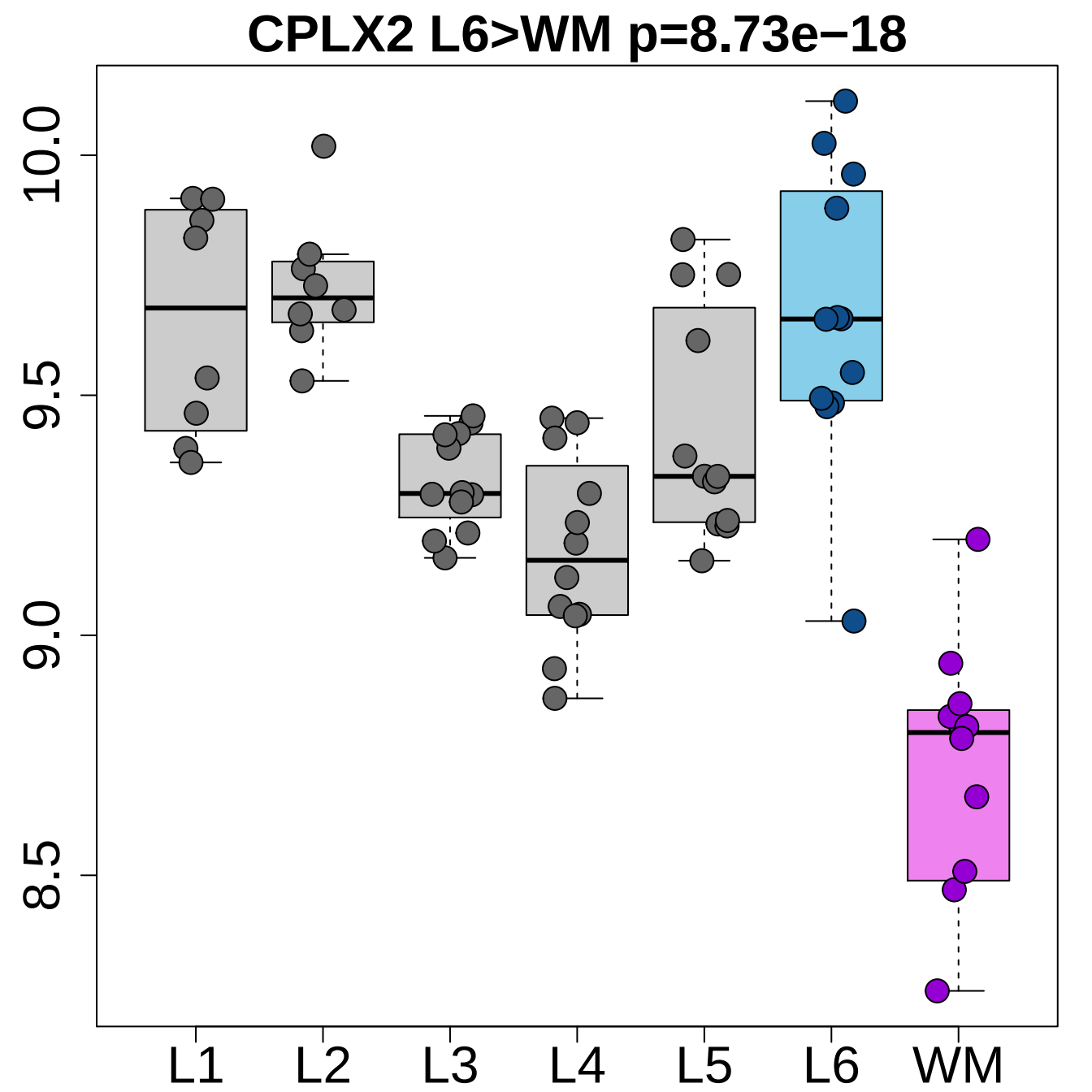

CCK L6>WM p=4.48e−19
12.5
12.0
11.5
11.0
10.5
L1
L2
L3
L4
L5
L6
WM

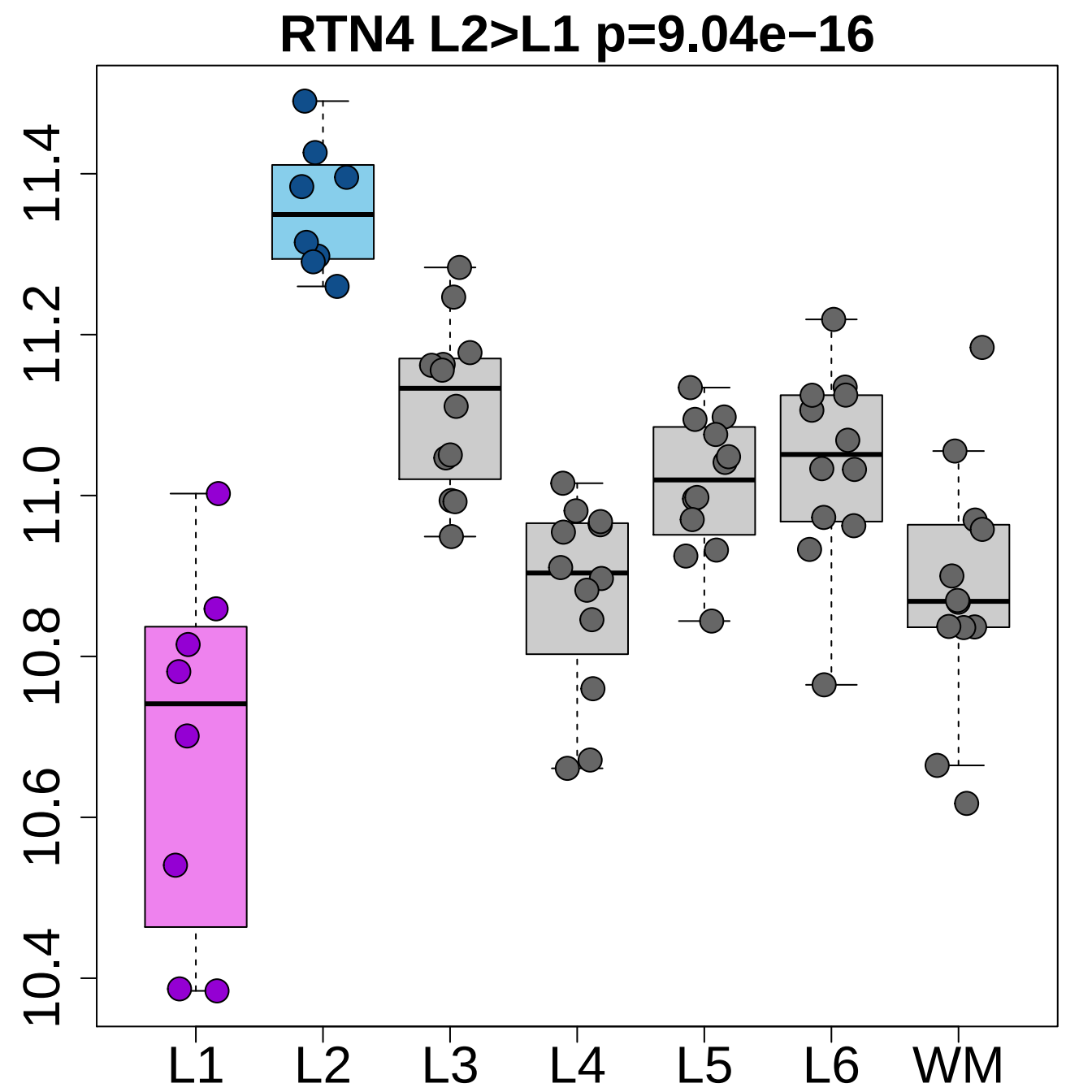

SNRPN L6>WM p=7.38e−19
9.8
10.0
10.4
10.8
L1
L2
L3
L4
L5
L6
WM

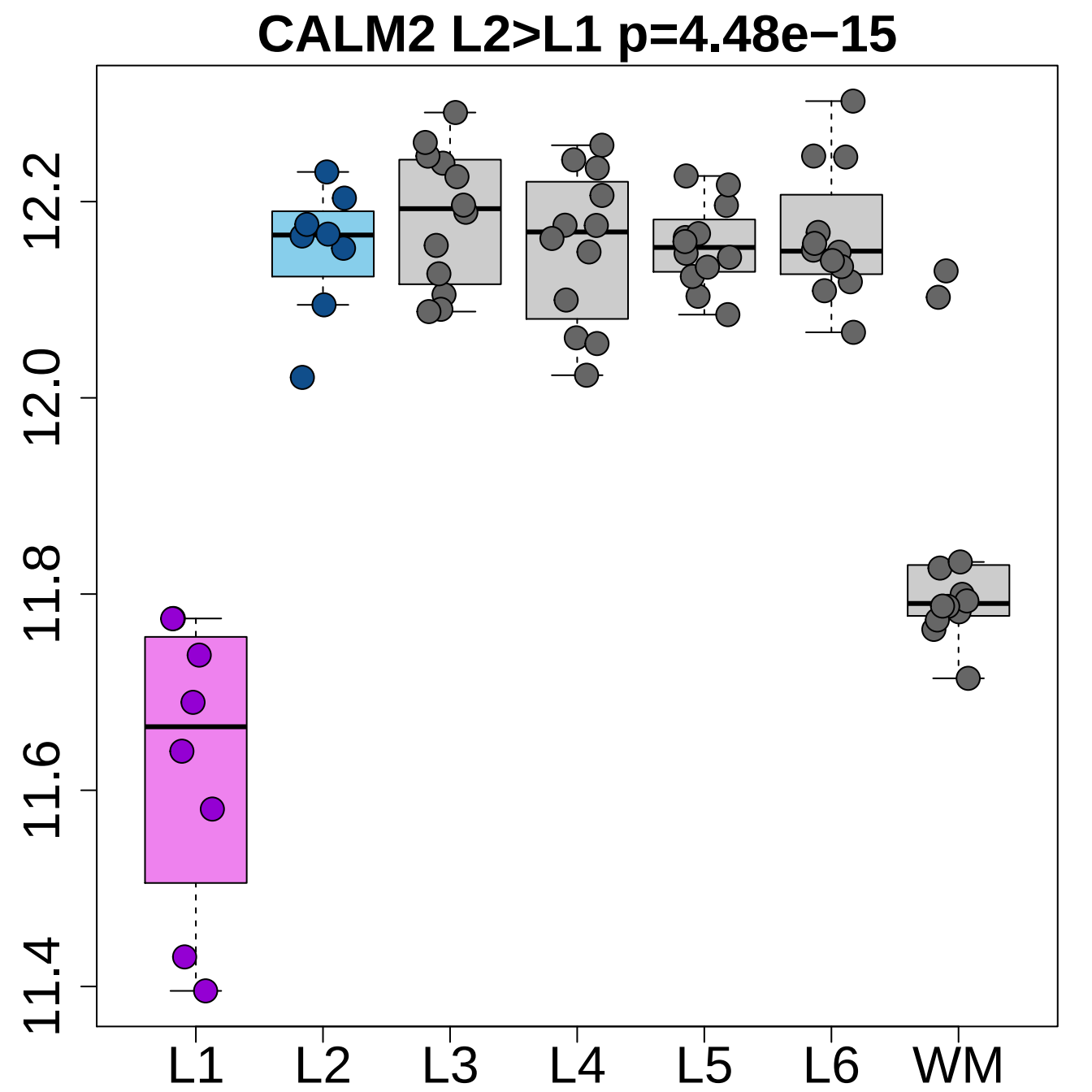

OLFM1 L6>WM p=1.17e−18
12.0
11.5
11.0
10.5
10.0
L1
L2
L3
L4
L5
L6
WM

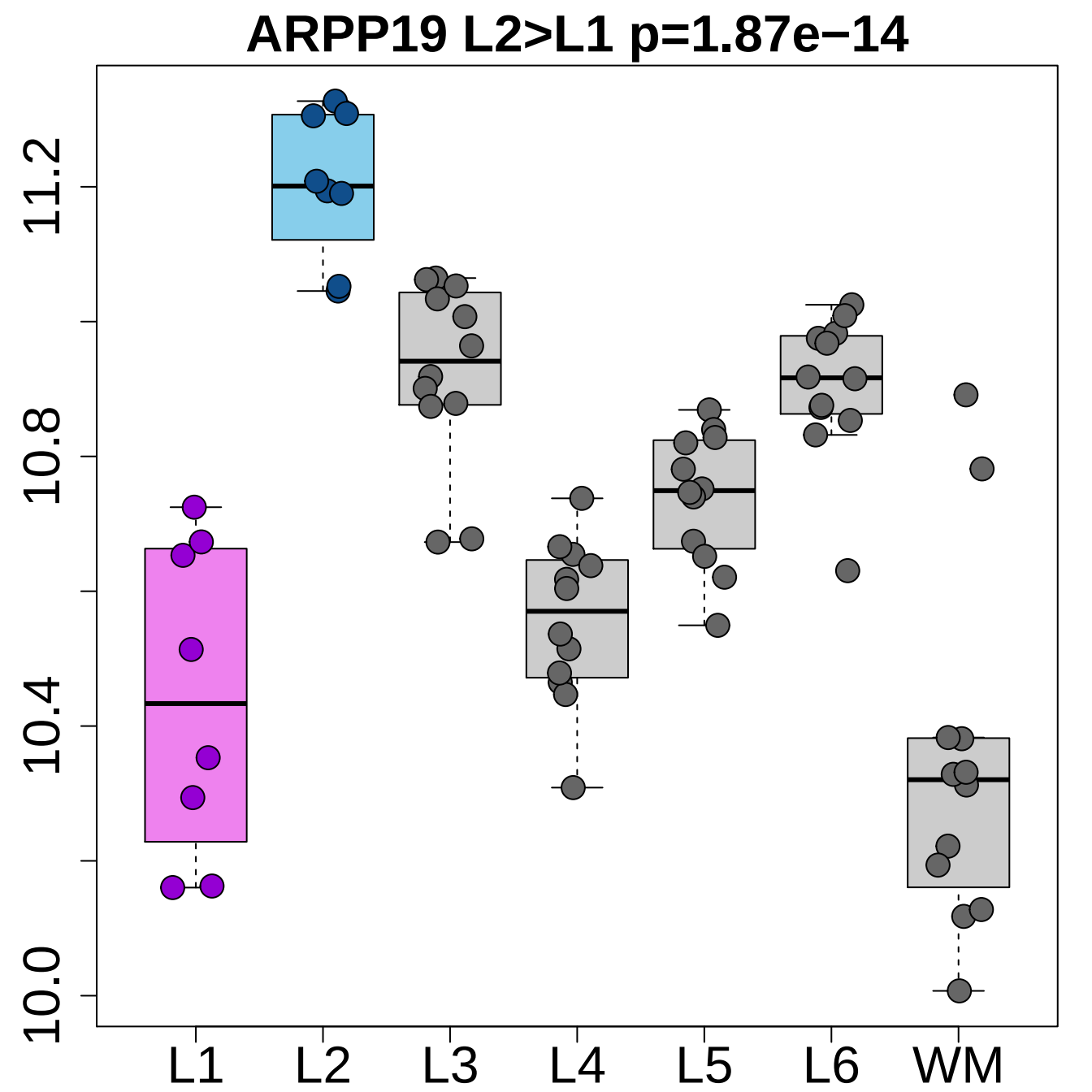

TUBA4A L6>WM p=8.37e−18
9.5
9.0
8.5
L1
L2
L3
L4
L5
L6
WM

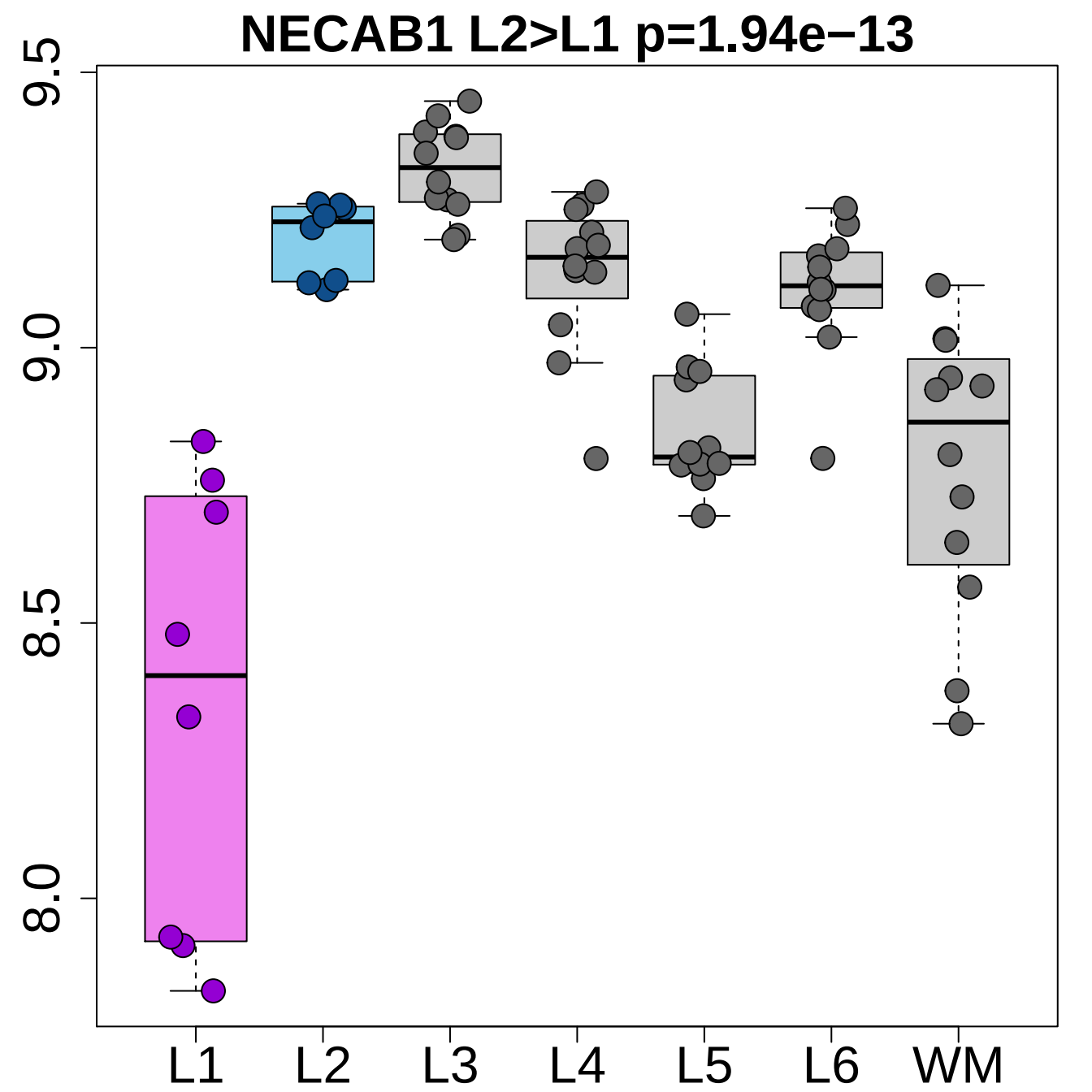

PI4KA L6>WM p=8.46e−18
10.0
9.5
9.0
8.5
L1
L2
L3
L4
L5
L6
WM

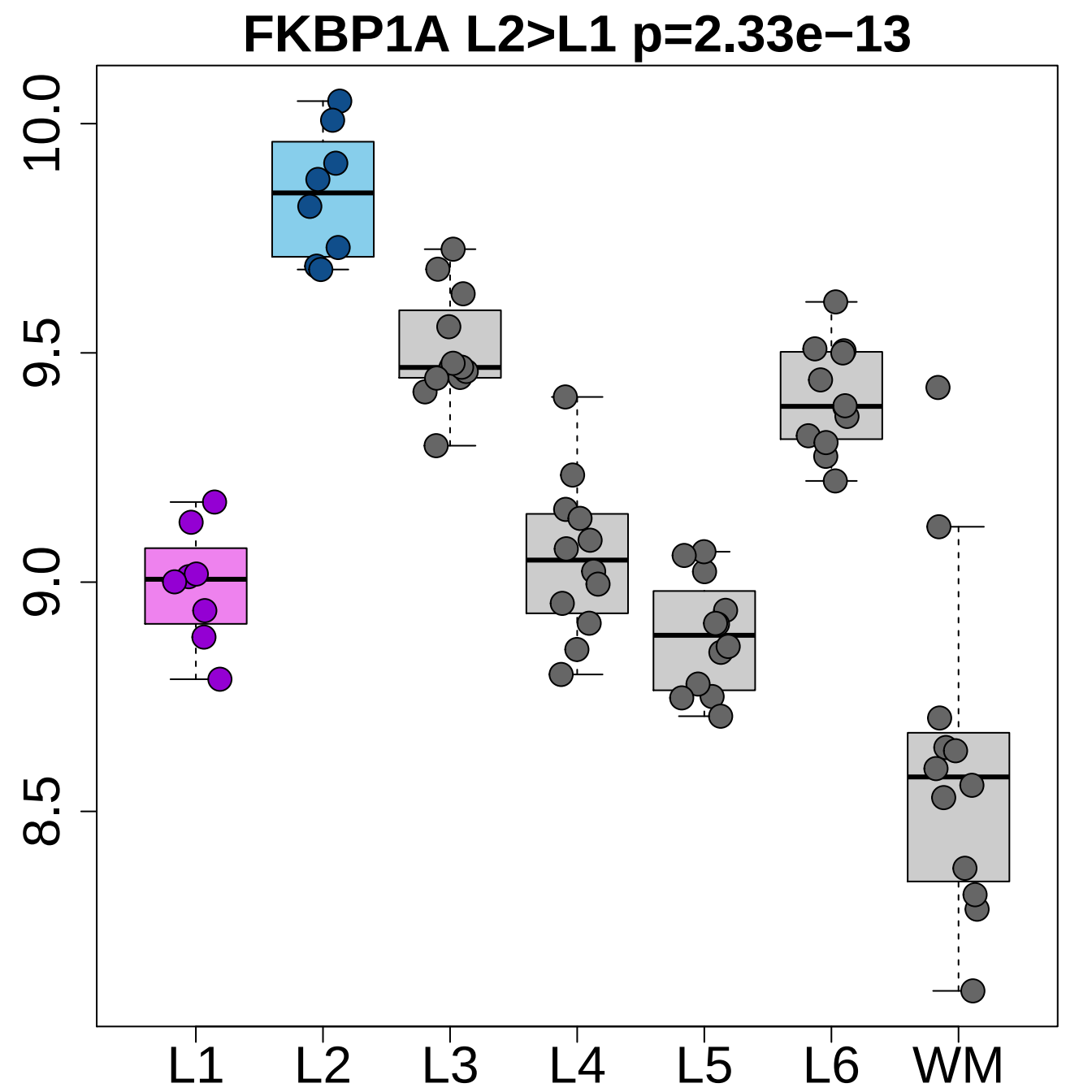

CPLX2 L6>WM p=8.73e−18
10.0
9.5
9.0
8.5
L1
L2
L3
L4
L5
L6
WM

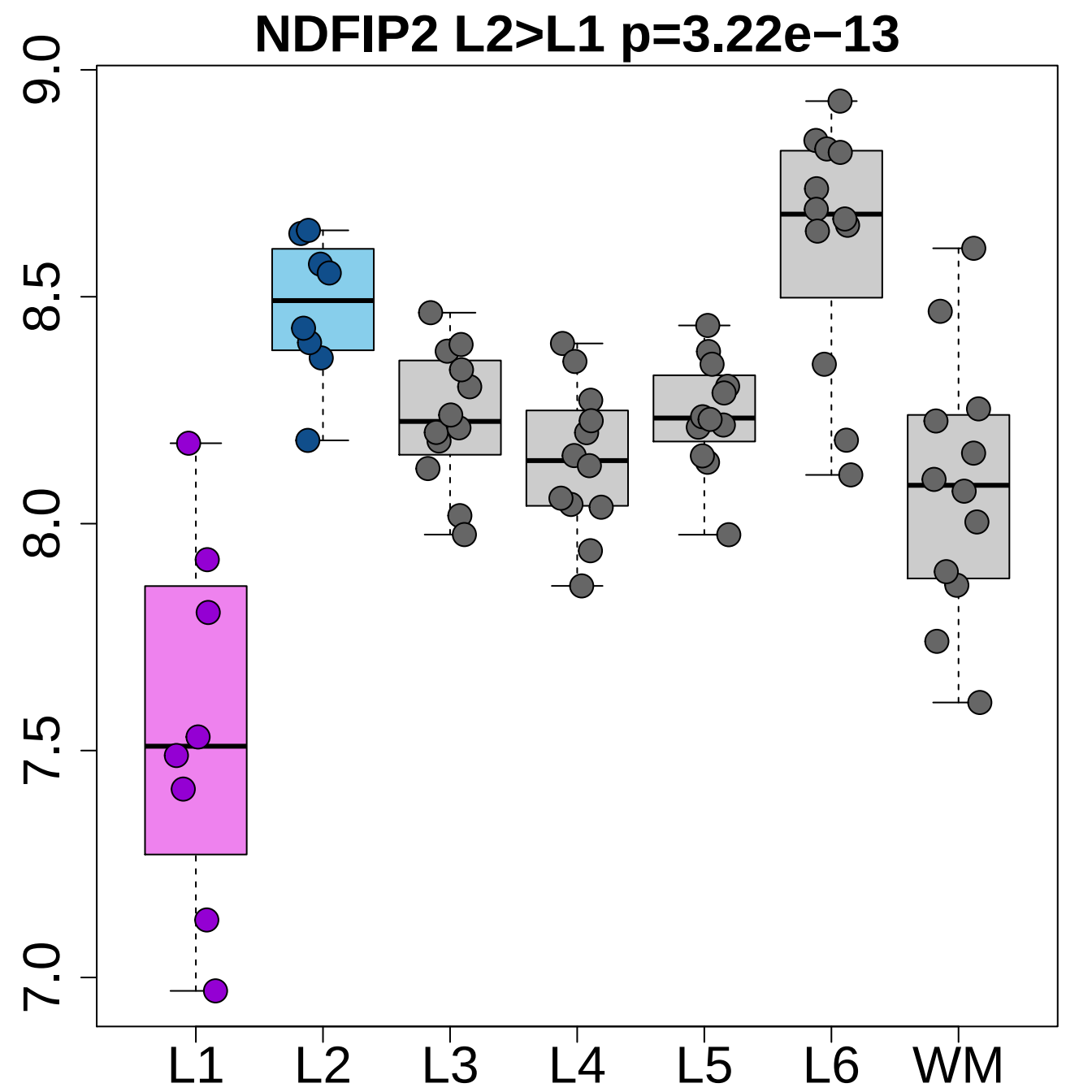

RTN4 L2>L1 p=9.04e−16
11.4
11.2
11.0
10.8
10.6
10.4
L1
L2
L3
L4
L5
L6
WM

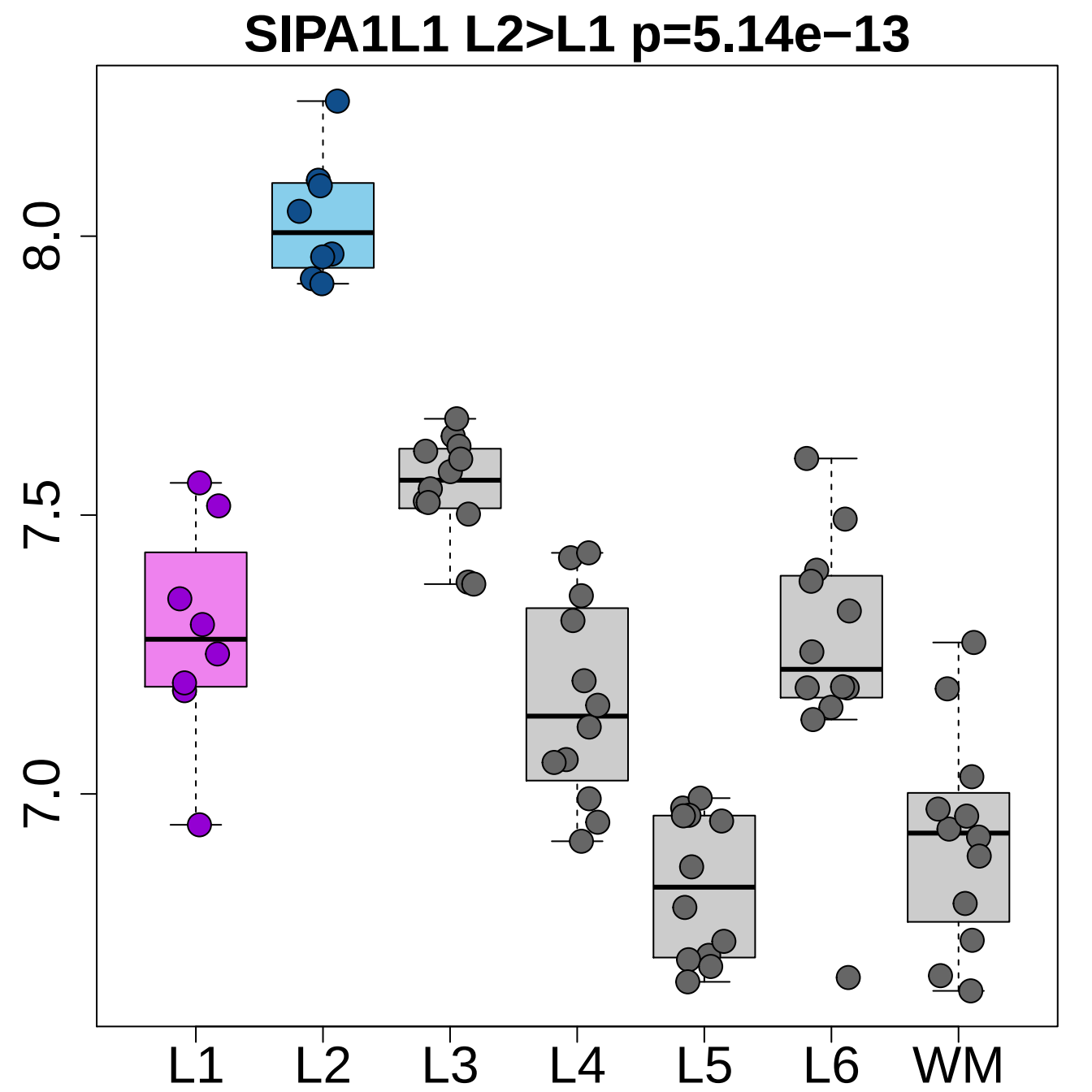

CALM2 L2>L1 p=4.48e−15
12.2
12.0
11.8
11.6
11.4
L1
L2
L3
L4
L5
L6
WM

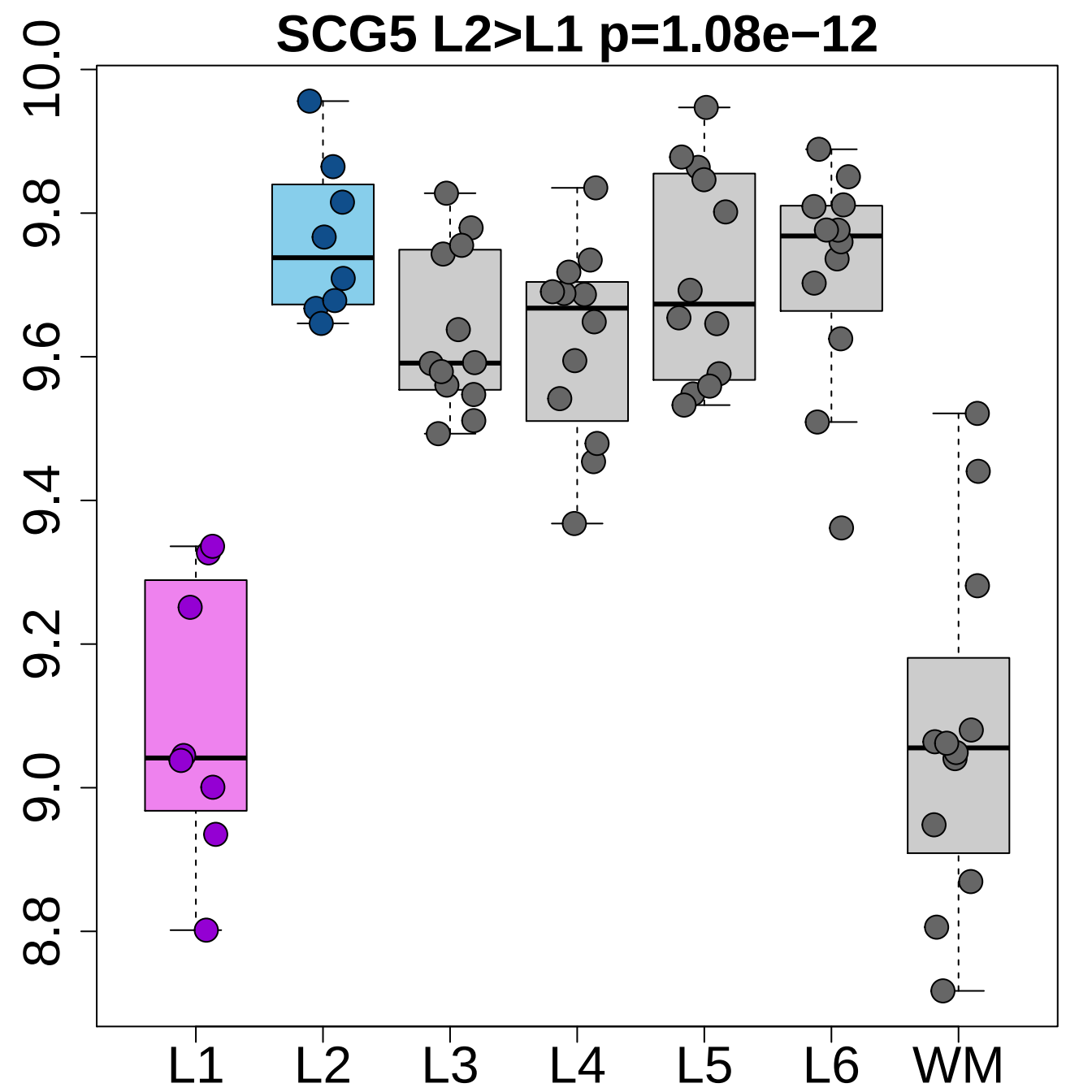

ARPP19 L2>L1 p=1.87e−14
11.2
10.8
10.4
10.0
L1
L2
L3
L4
L5
L6
WM

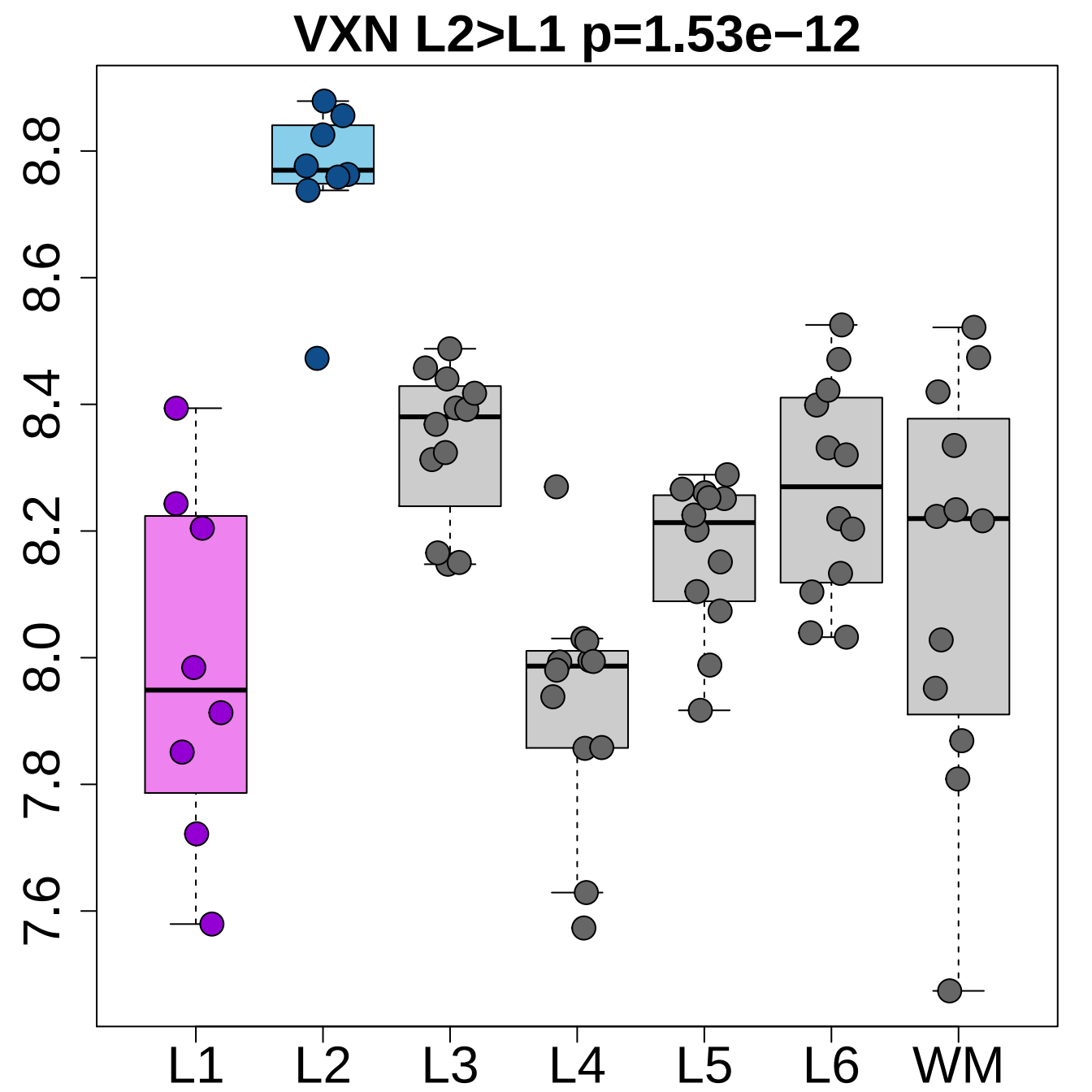

NECAB1 L2>L1 p=1.94e−13
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

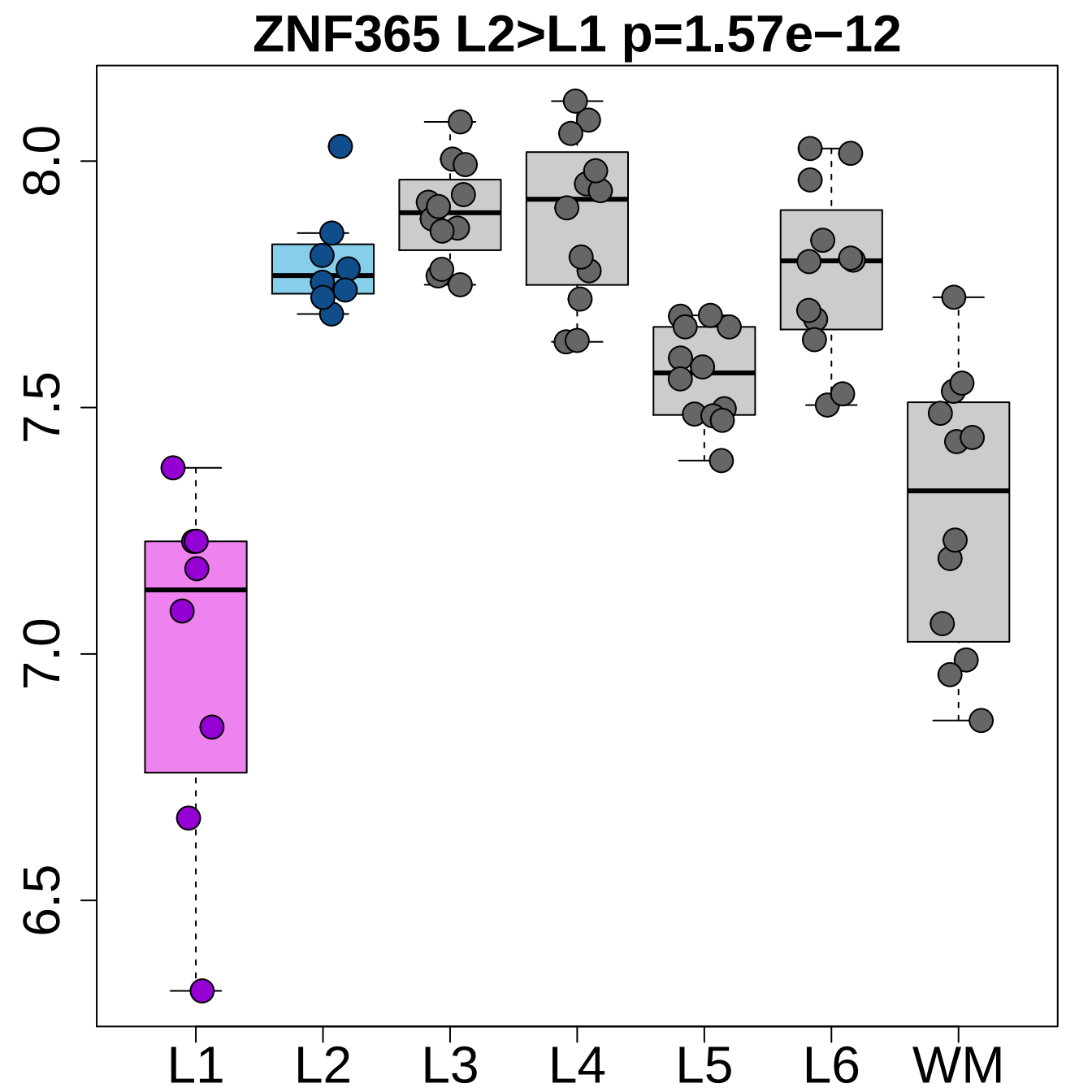

FKBP1A L2>L1 p=2.33e−13
10.0
9.5
9.0
8.5
L1
L2
L3
L4
L5
L6
WM

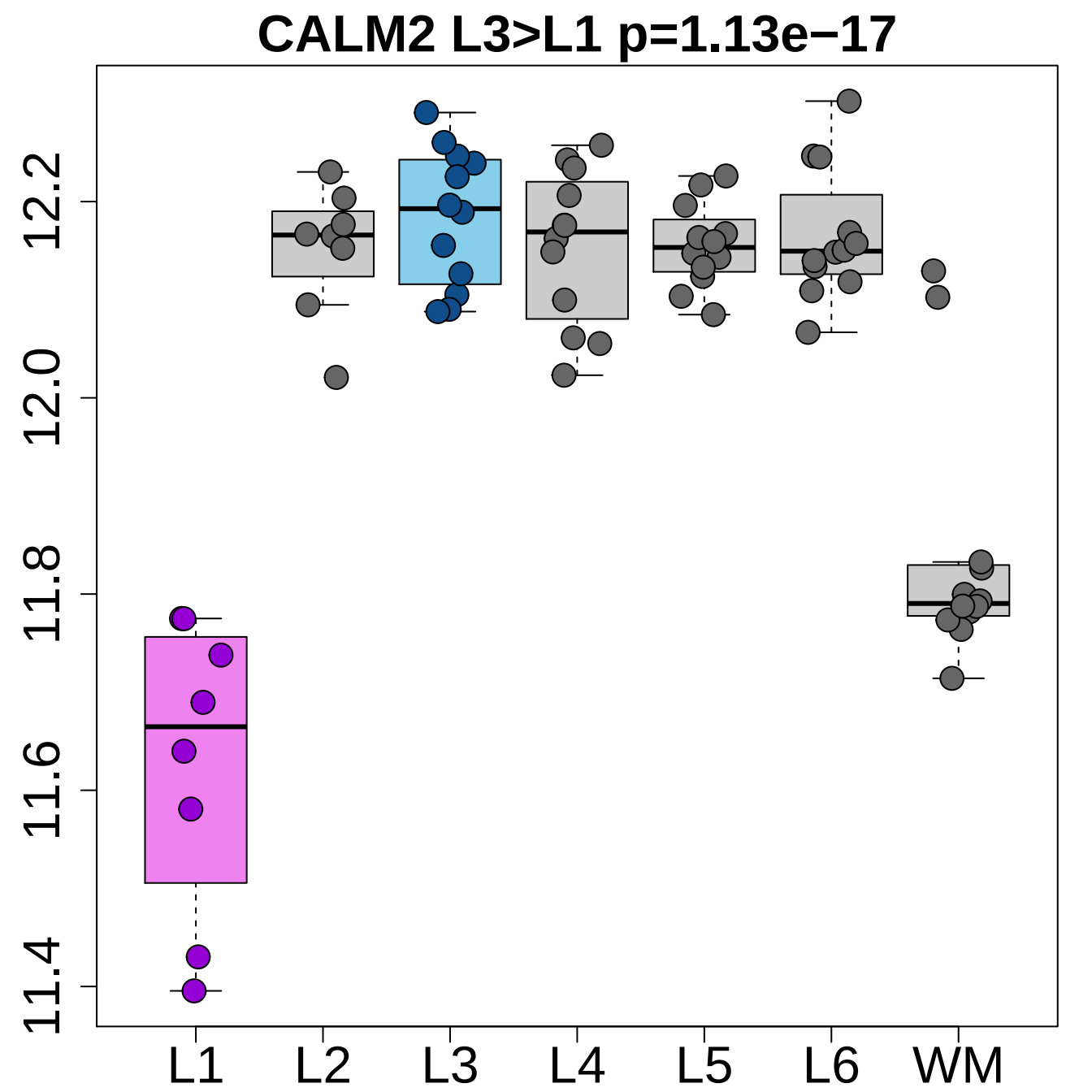

NDFIP2 L2>L1 p=3.22e−13
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

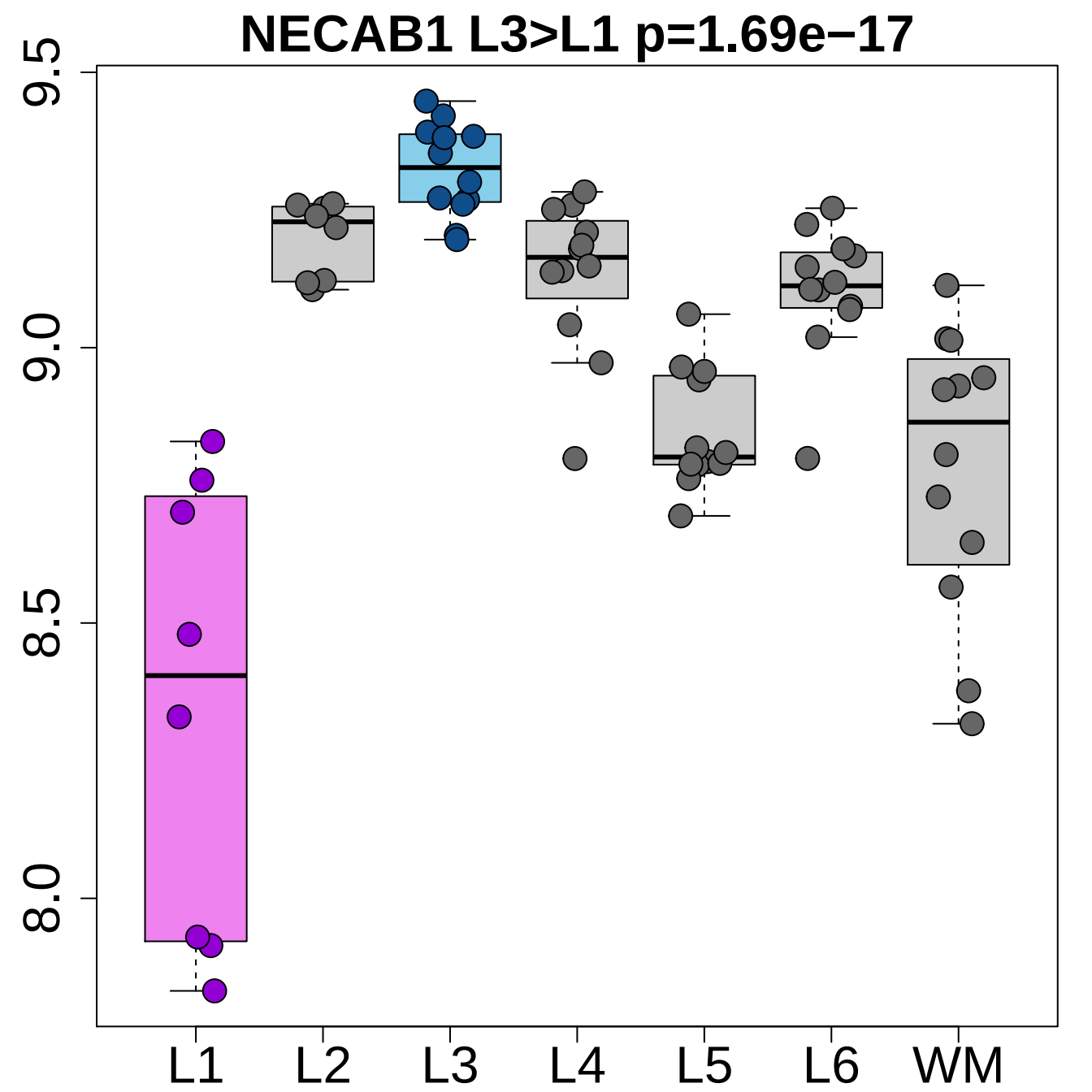

SIPA1L1 L2>L1 p=5.14e−13
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

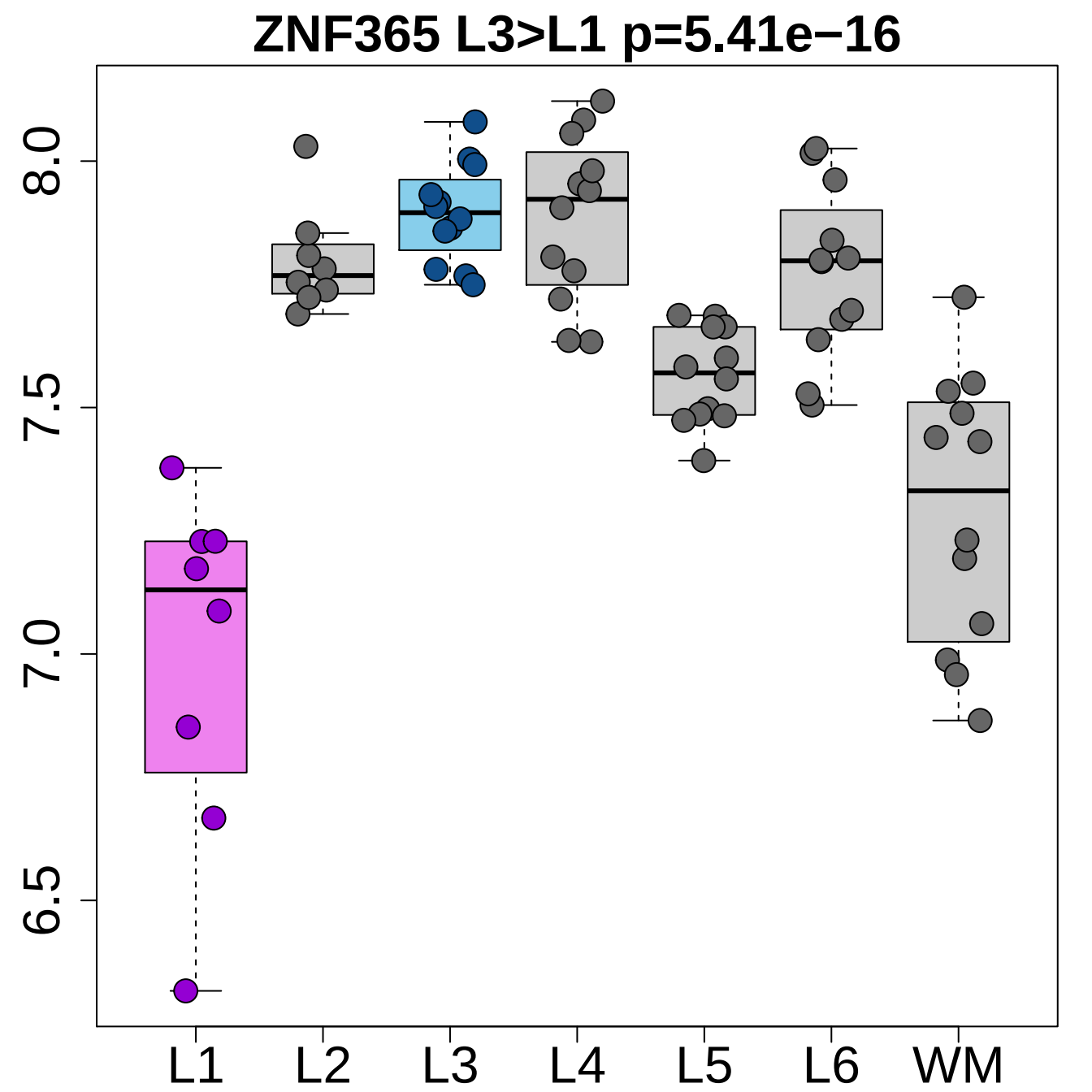

SCG5 L2>L1 p=1.08e−12
10.0
9.8
9.6
9.4
9.2
9.0
8.8
L1
L2
L3
L4
L5
L6
WM

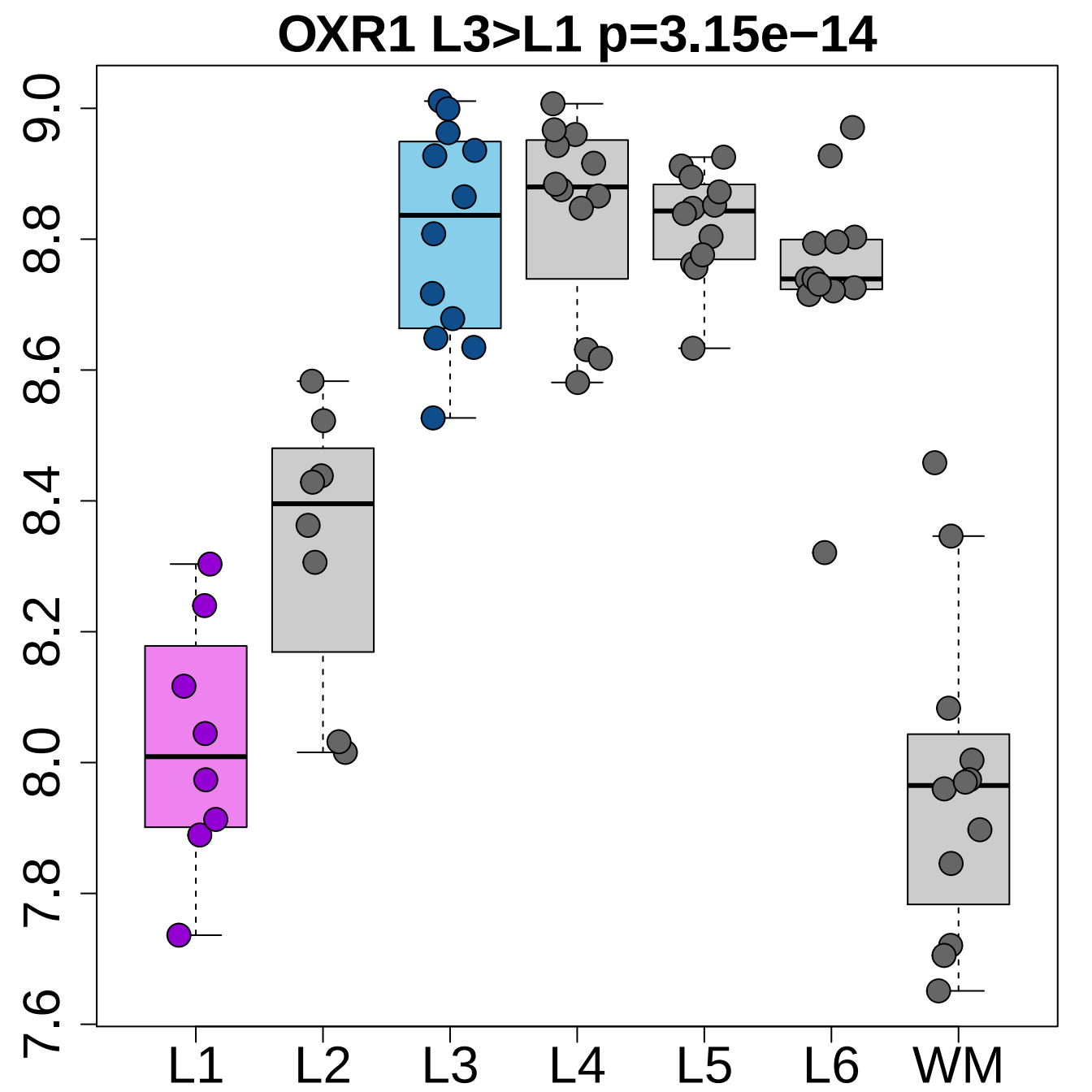

VXN L2>L1 p=1.53e−12
8.8
8.6
8.4
8.2
8.0
7.8
7.6
L1
L2
L3
L4
L5
L6
WM

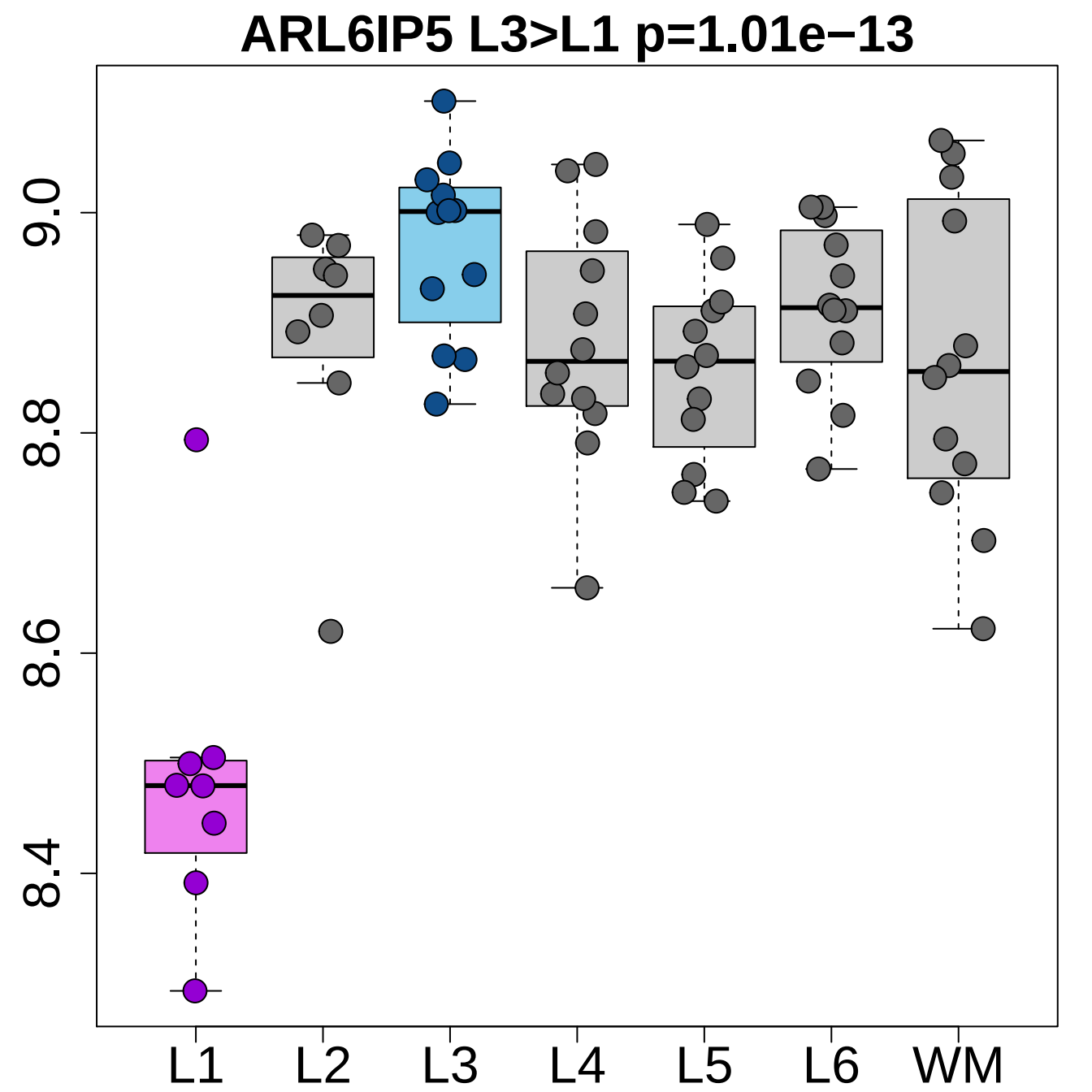

ZNF365 L2>L1 p=1.57e−12
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

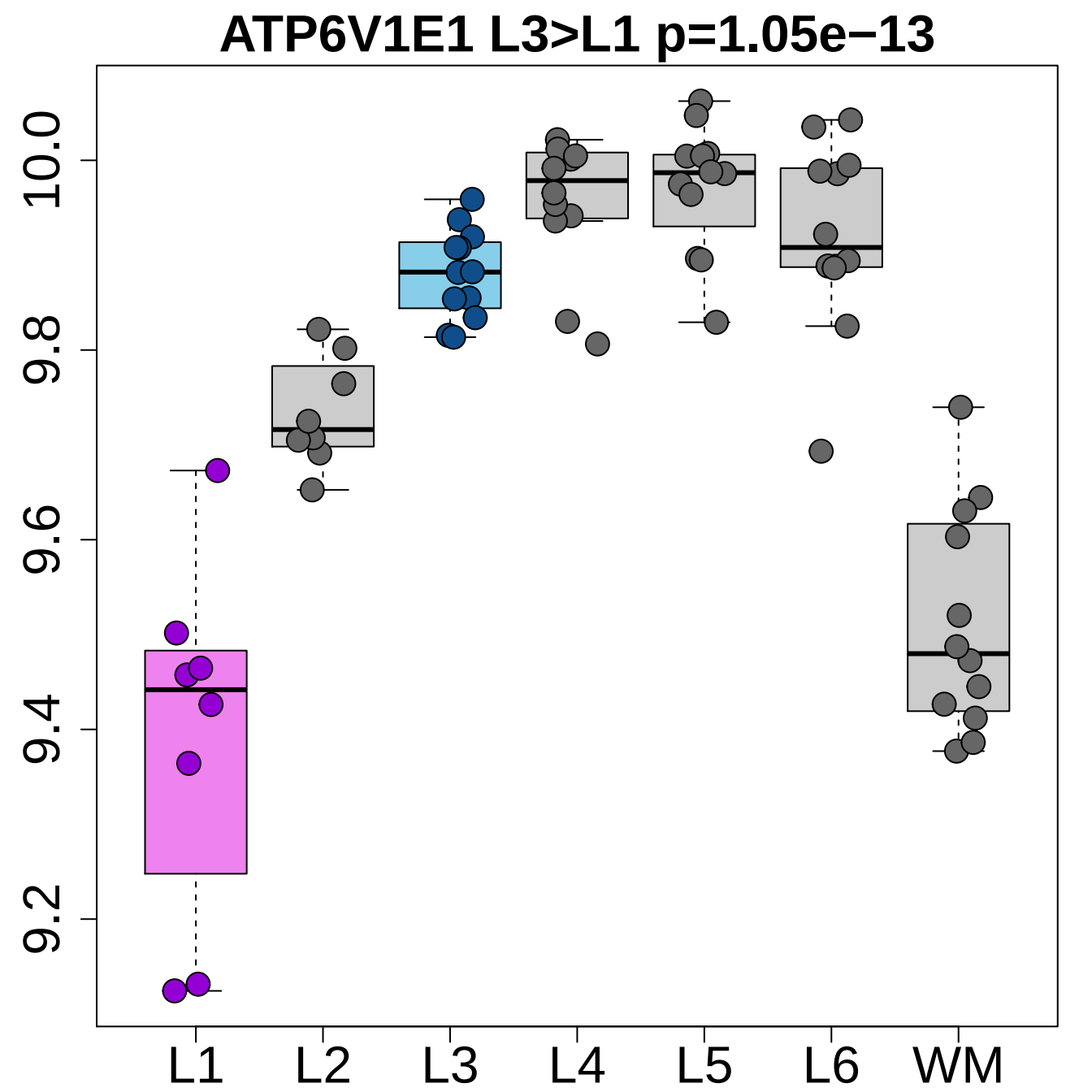

CALM2 L3>L1 p=1.13e−17
12.2
12.0
11.8
11.6
11.4
L1
L2
L3
L4
L5
L6
WM

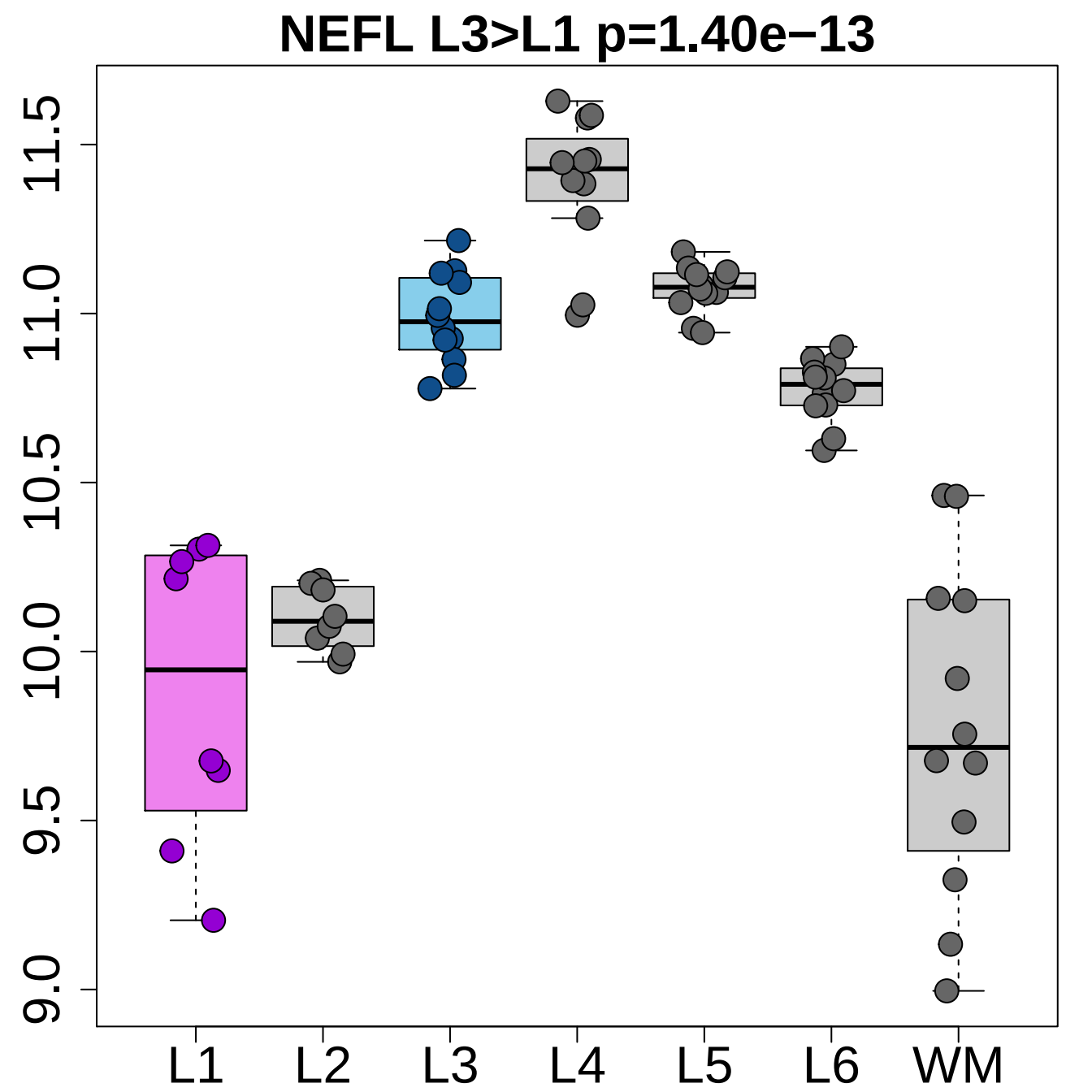

NECAB1 L3>L1 p=1.69e−17
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM

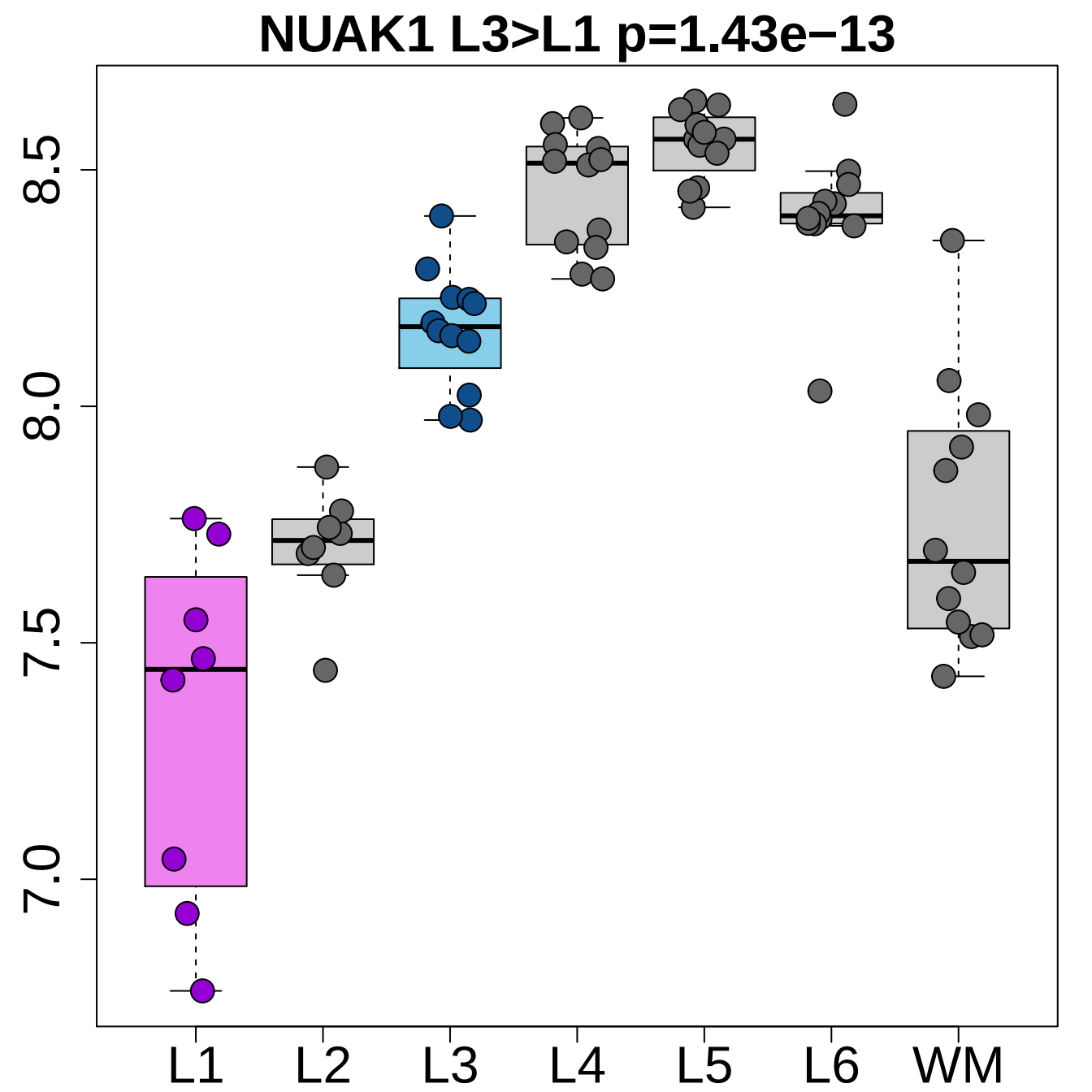

ZNF365 L3>L1 p=5.41e−16
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

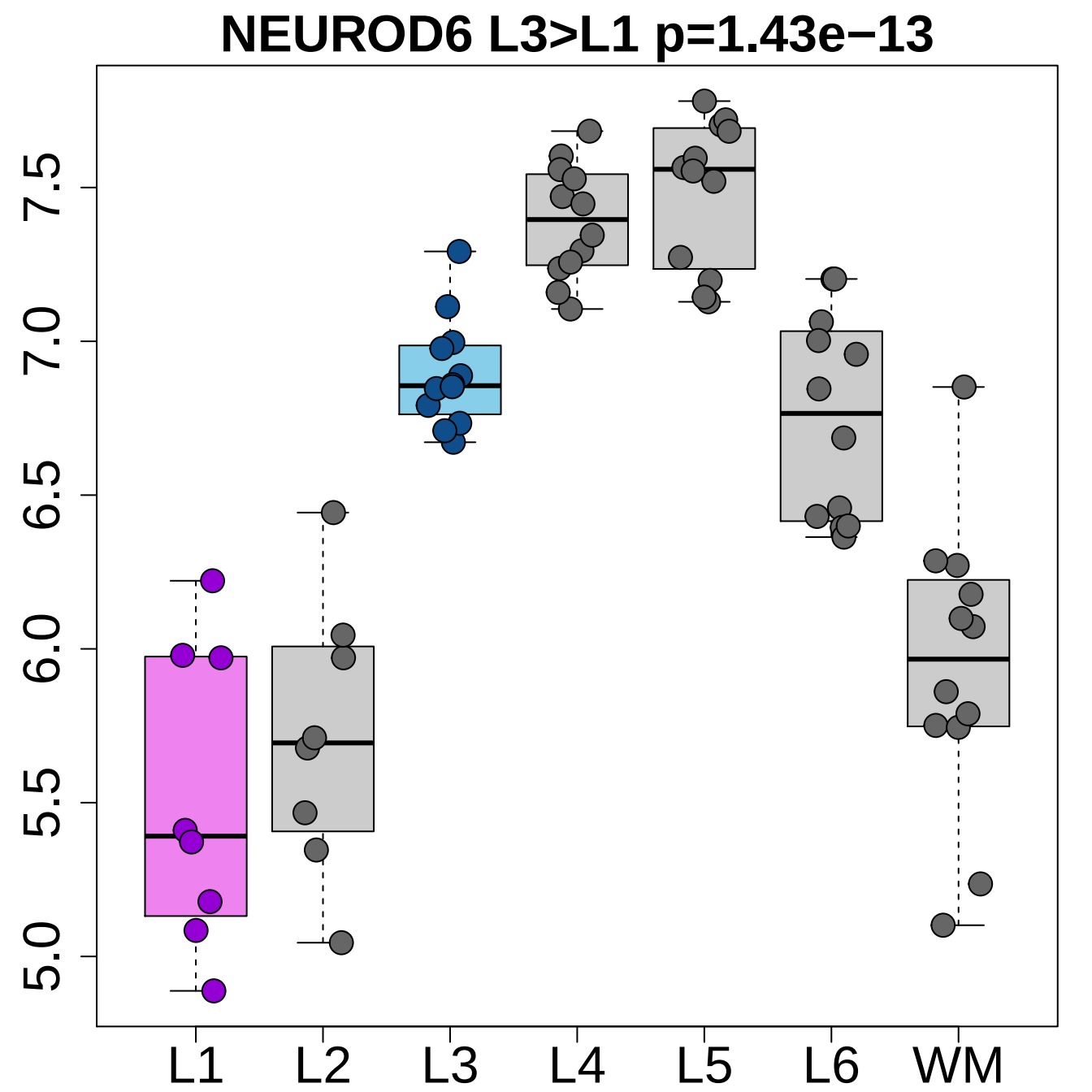

OXR1 L3>L1 p=3.15e−14
9.0
8.8
8.6
8.4
8.2
8.0
7.8
7.6
L1
L2
L3
L4
L5
L6
WM

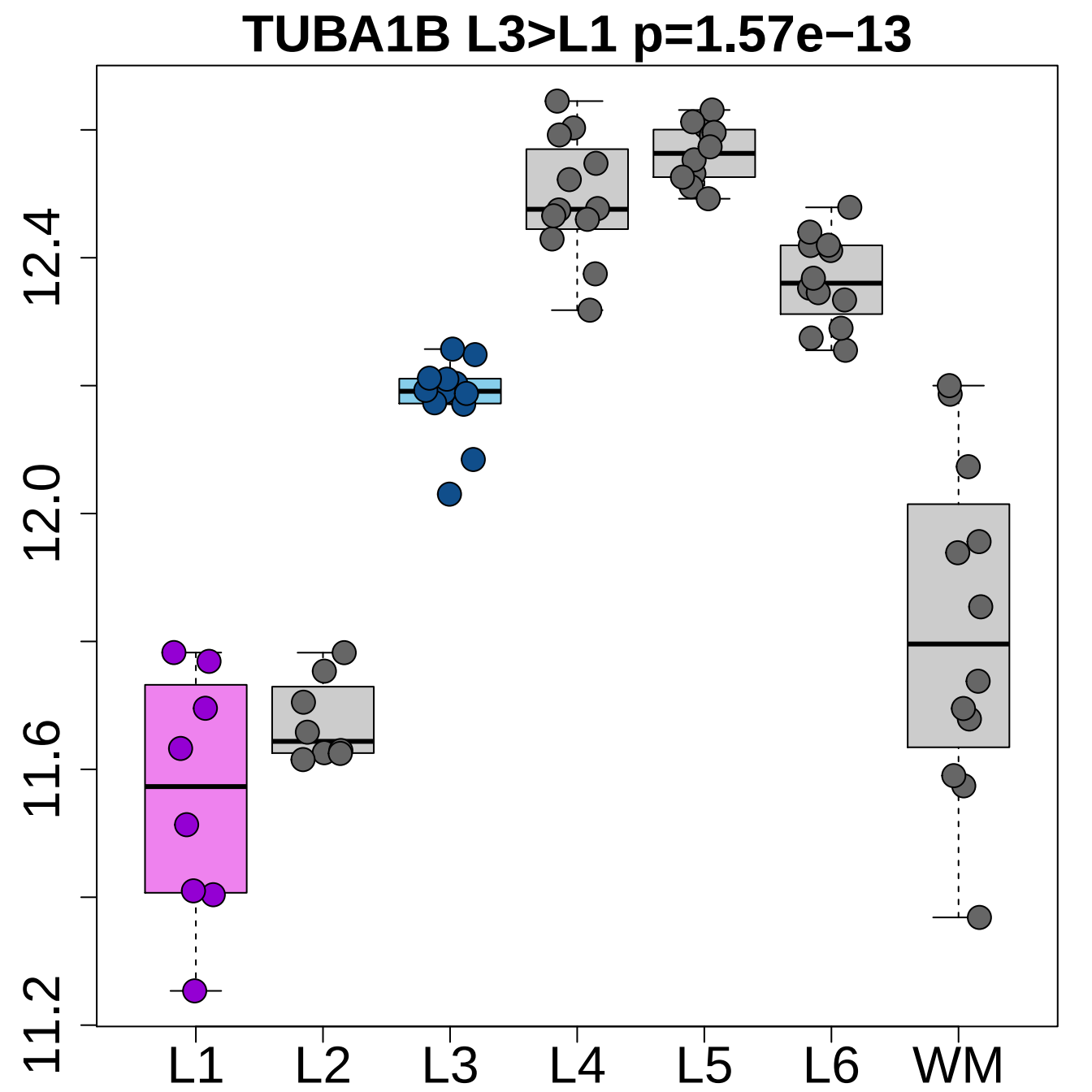

ARL6IP5 L3>L1 p=1.01e−13
9.0
8.8
8.6
8.4
L1
L2
L3
L4
L5
L6
WM

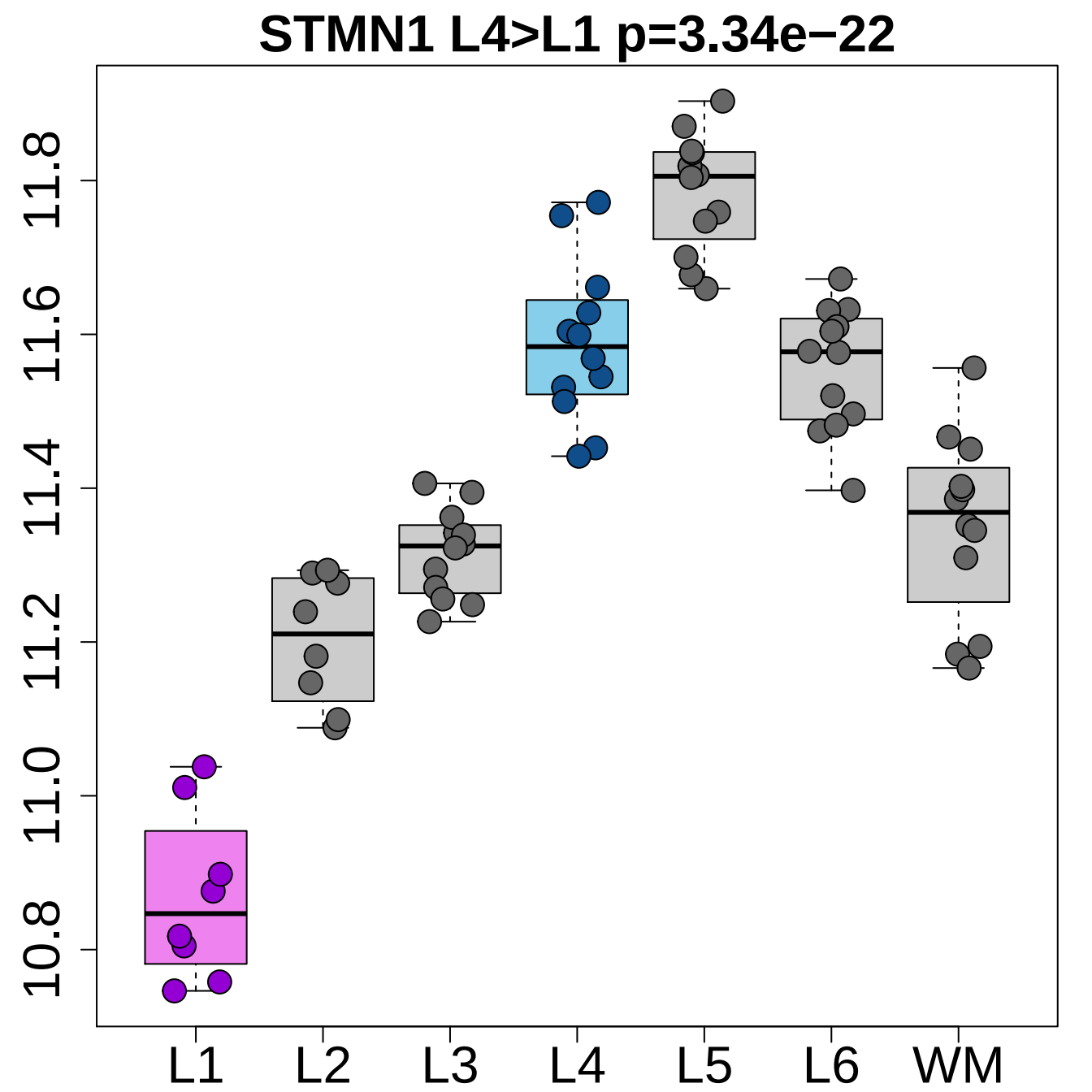

ATP6V1E1 L3>L1 p=1.05e−13
10.0
9.8
9.6
9.4
9.2
L1
L2
L3
L4
L5
L6
WM

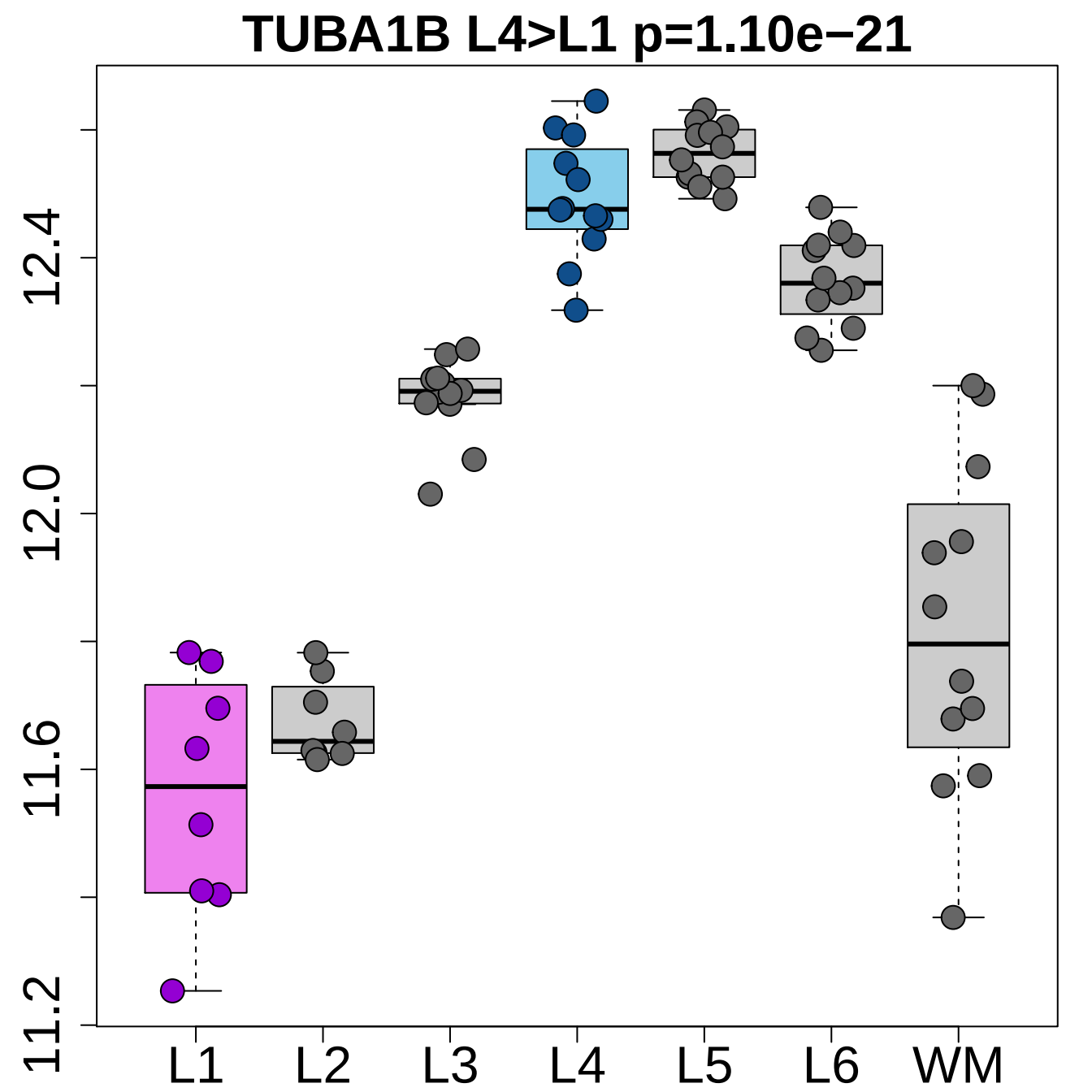

NEFL L3>L1 p=1.40e−13
11.5
11.0
10.5
10.0
9.5
9.0
L1
L2
L3
L4
L5
L6
WM

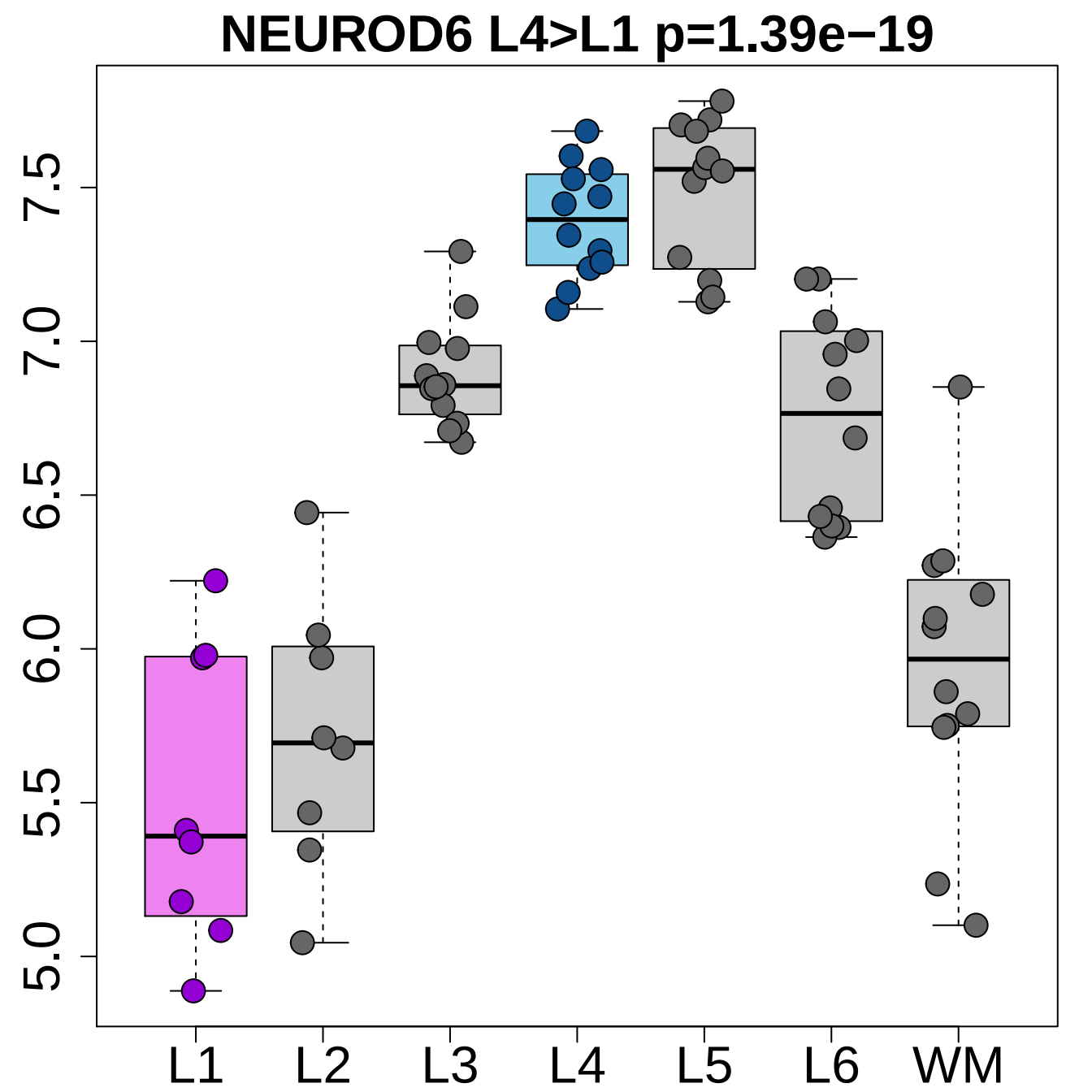

NUAK1 L3>L1 p=1.43e−13
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

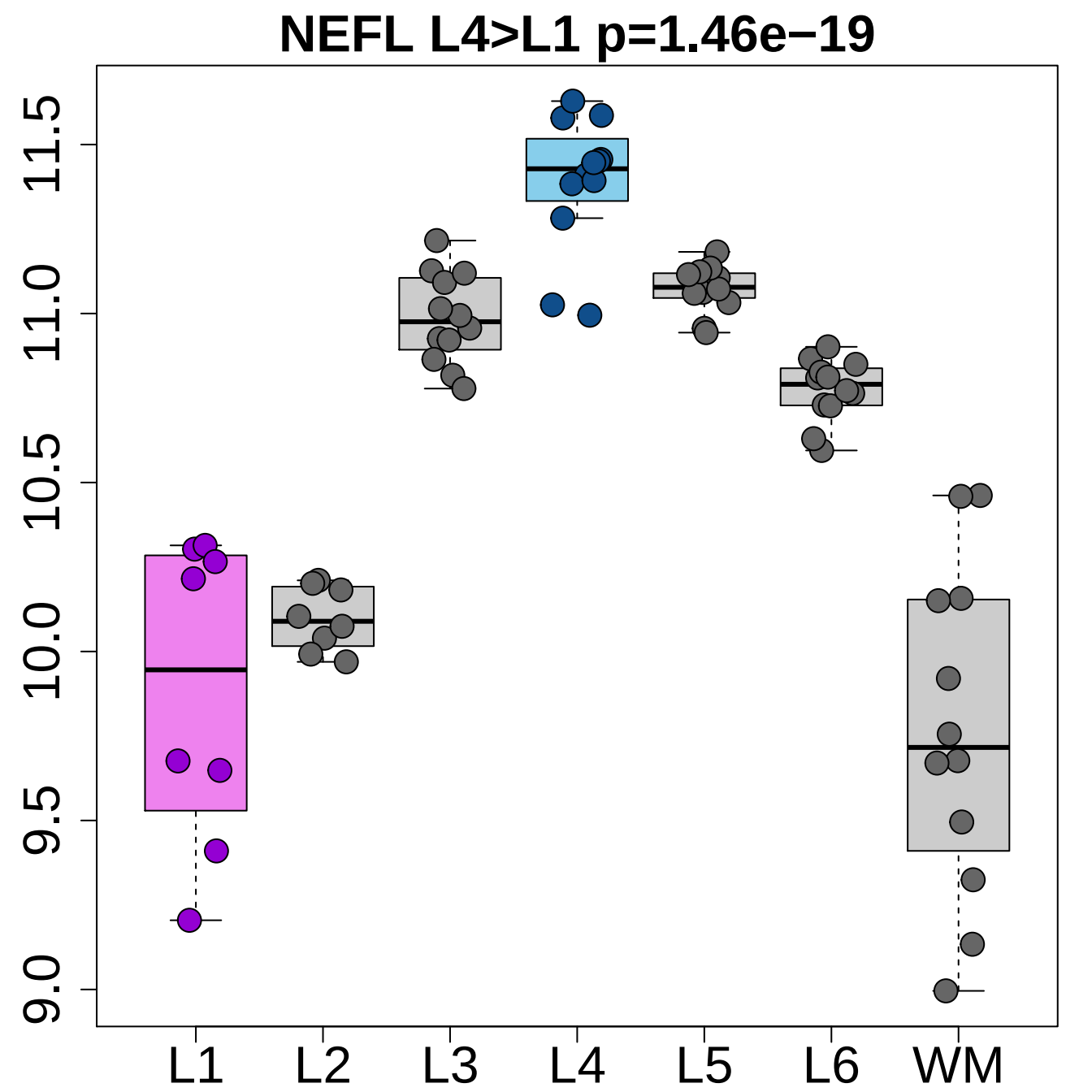

NEUROD6 L3>L1 p=1.43e−13
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

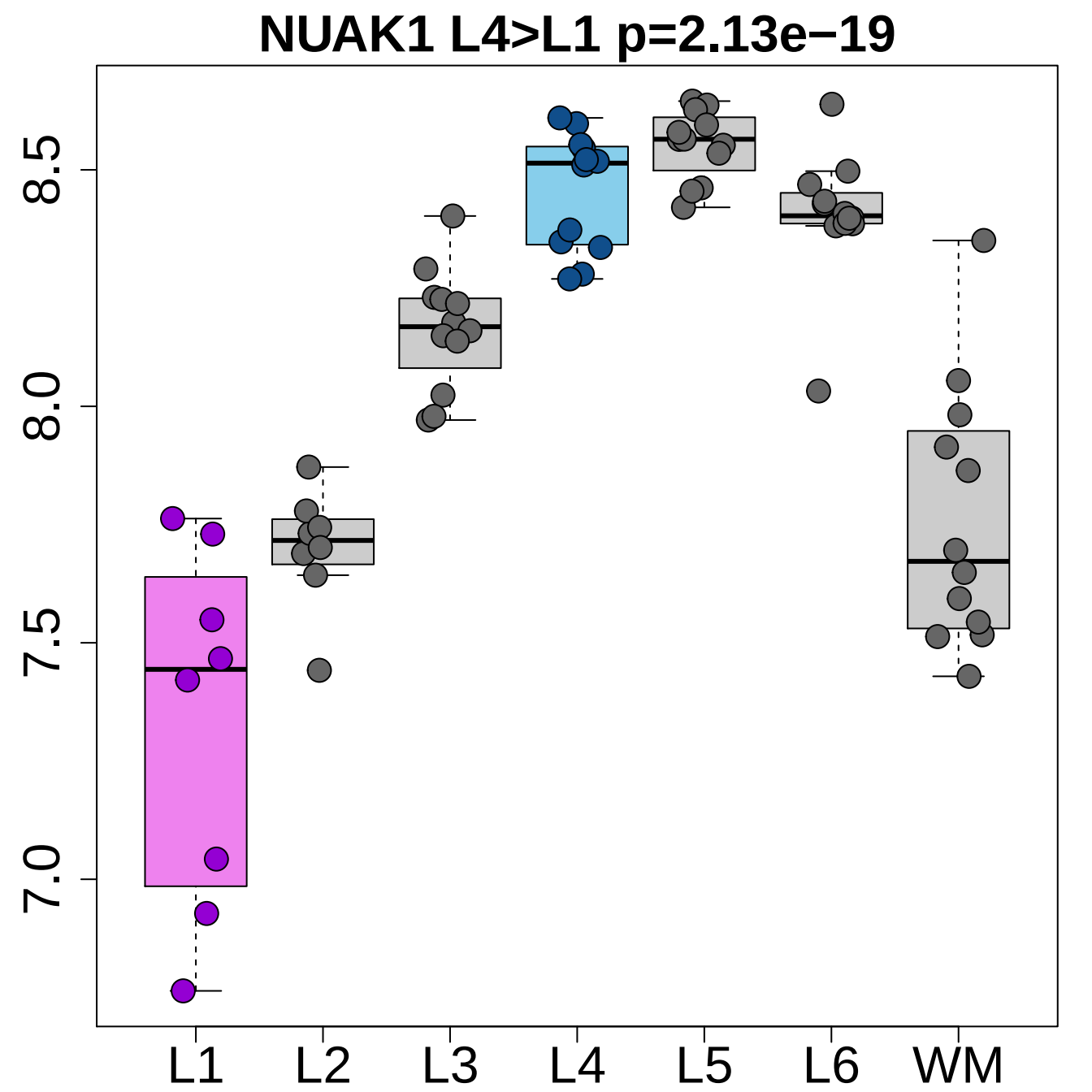

TUBA1B L3>L1 p=1.57e−13
12.4
12.0
11.6
11.2
L1
L2
L3
L4
L5
L6
WM

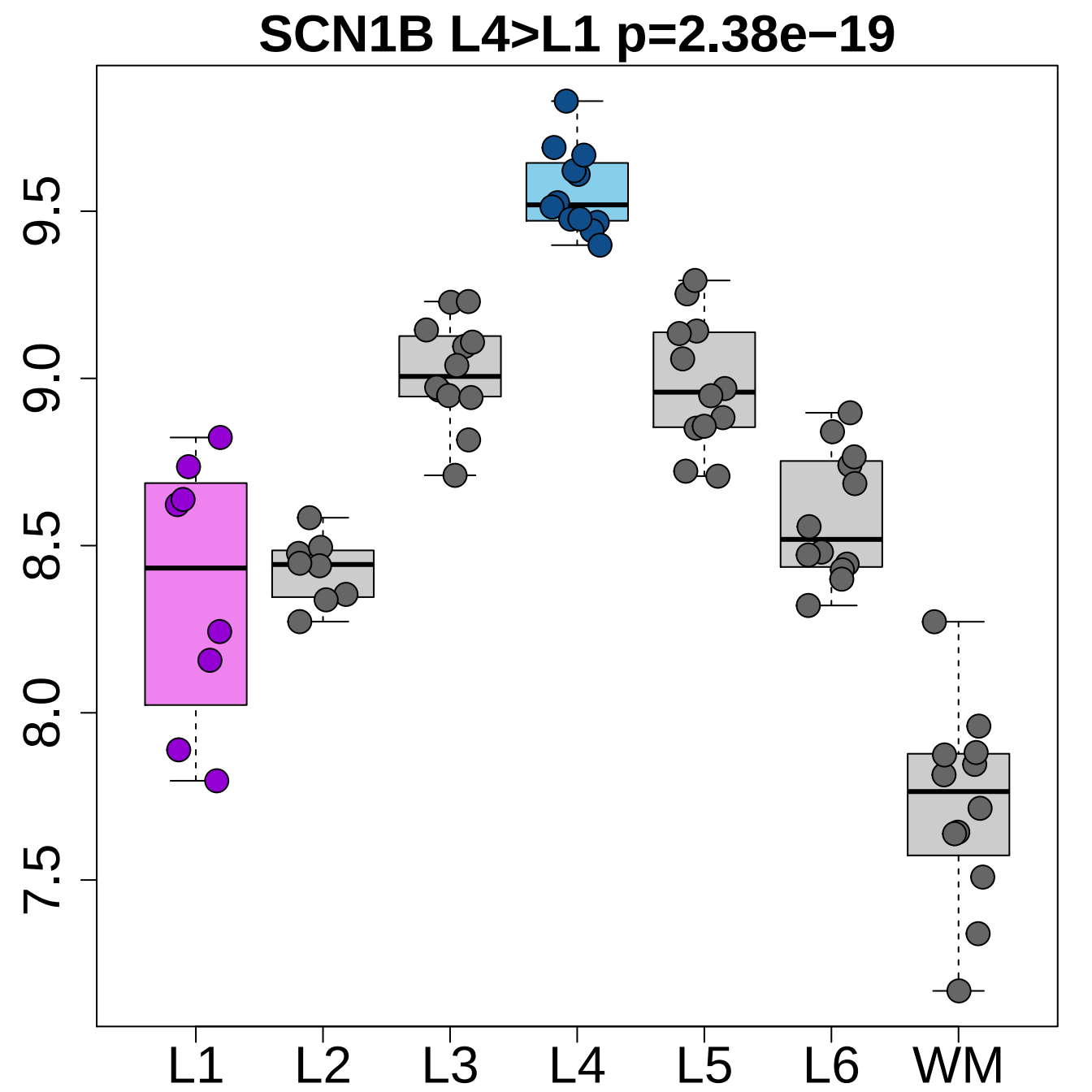

STMN1 L4>L1 p=3.34e−22
10.8
11.0
11.2
11.4
11.6
11.8
L1
L2
L3
L4
L5
L6
WM

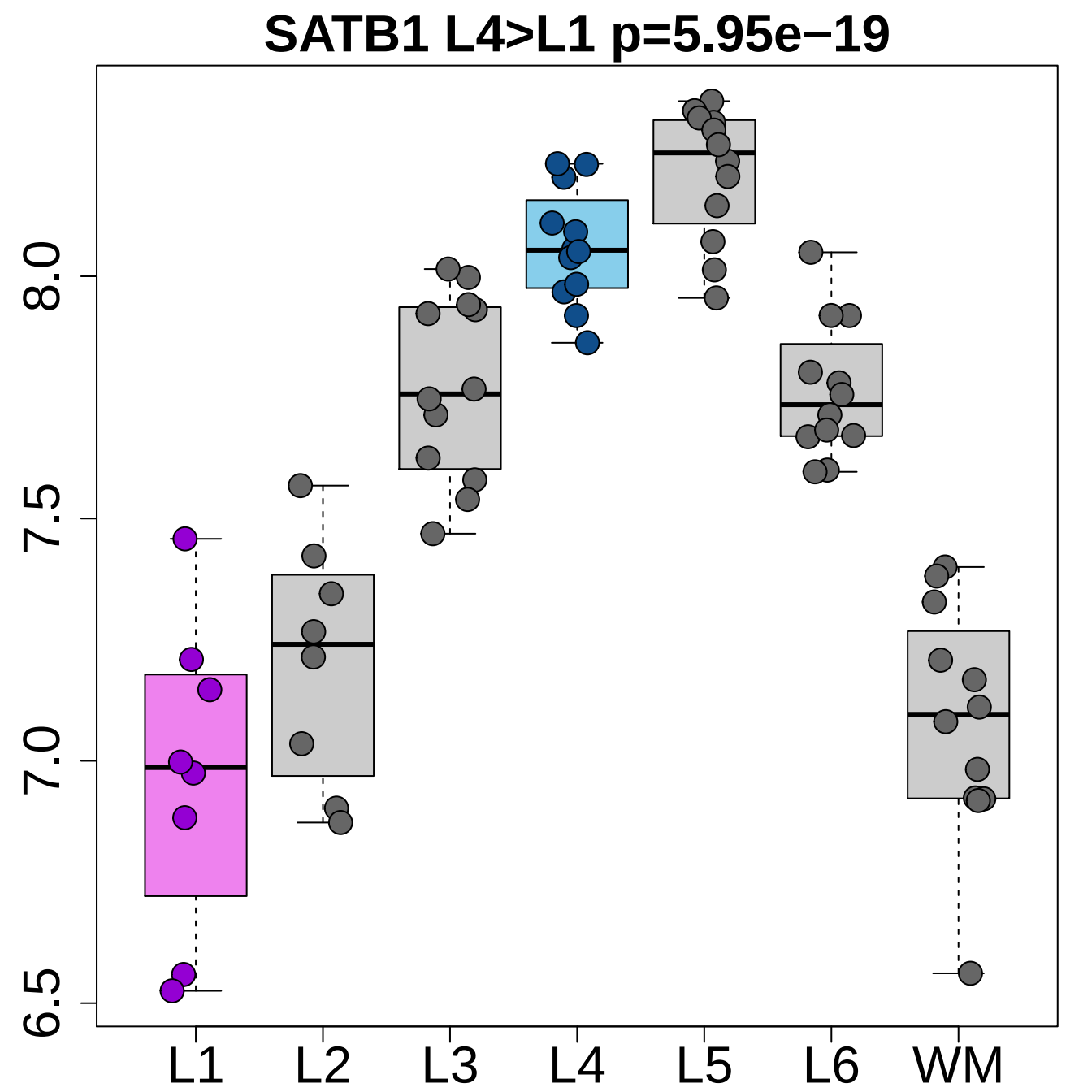

TUBA1B L4>L1 p=1.10e−21
12.4
12.0
11.6
11.2
L1
L2
L3
L4
L5
L6
WM

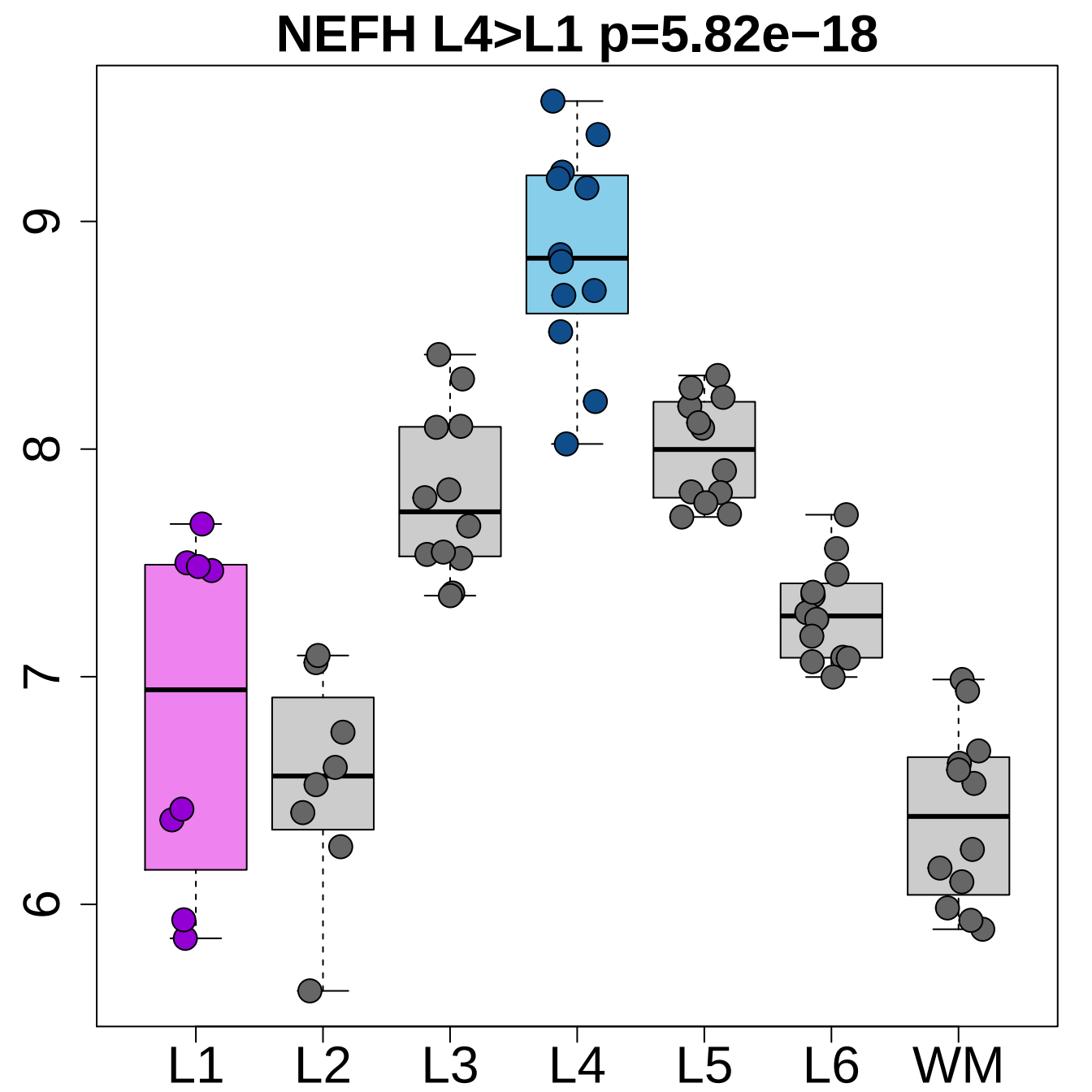

NEUROD6 L4>L1 p=1.39e−19
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

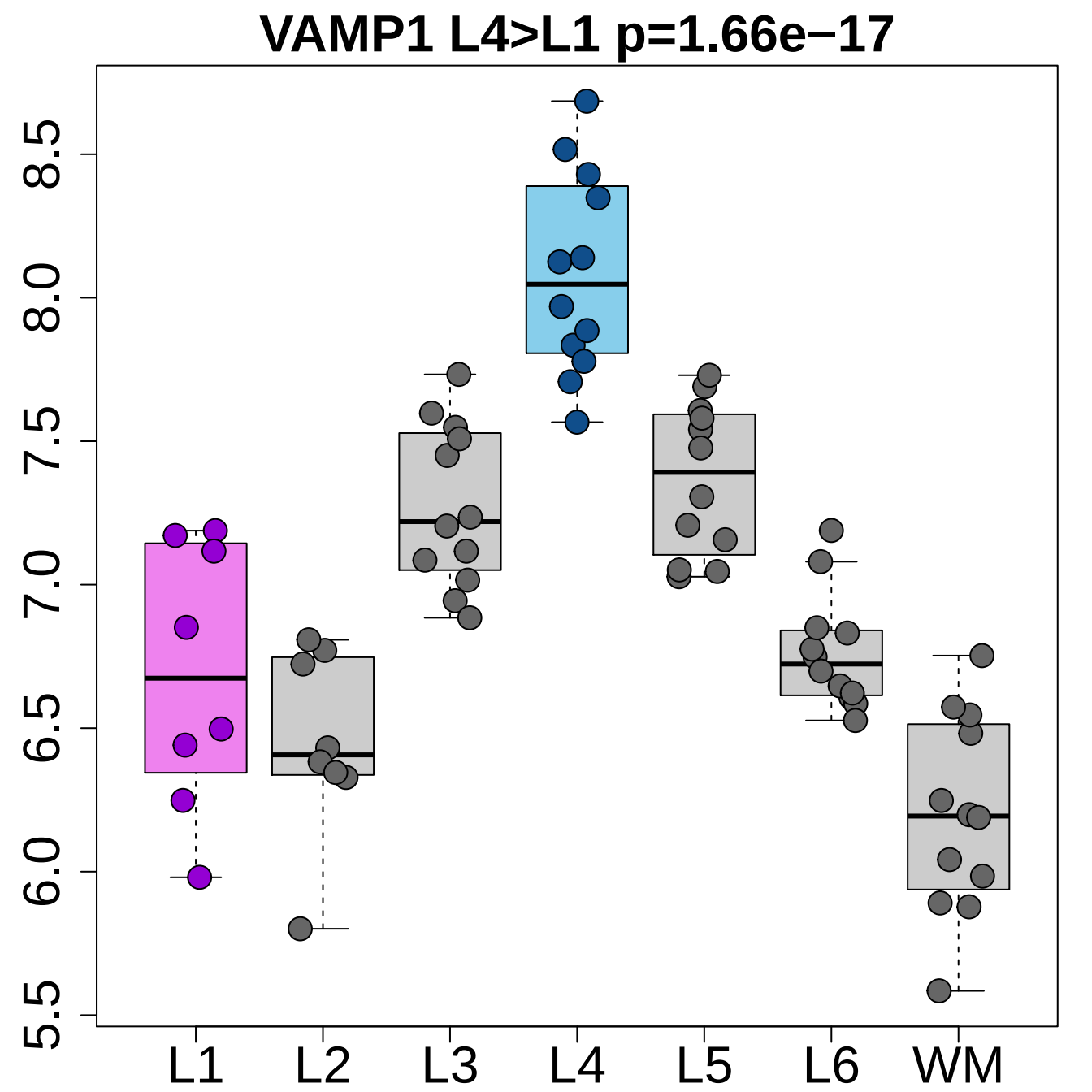

NEFL L4>L1 p=1.46e−19
11.5
11.0
10.5
10.0
9.5
9.0
L1
L2
L3
L4
L5
L6
WM

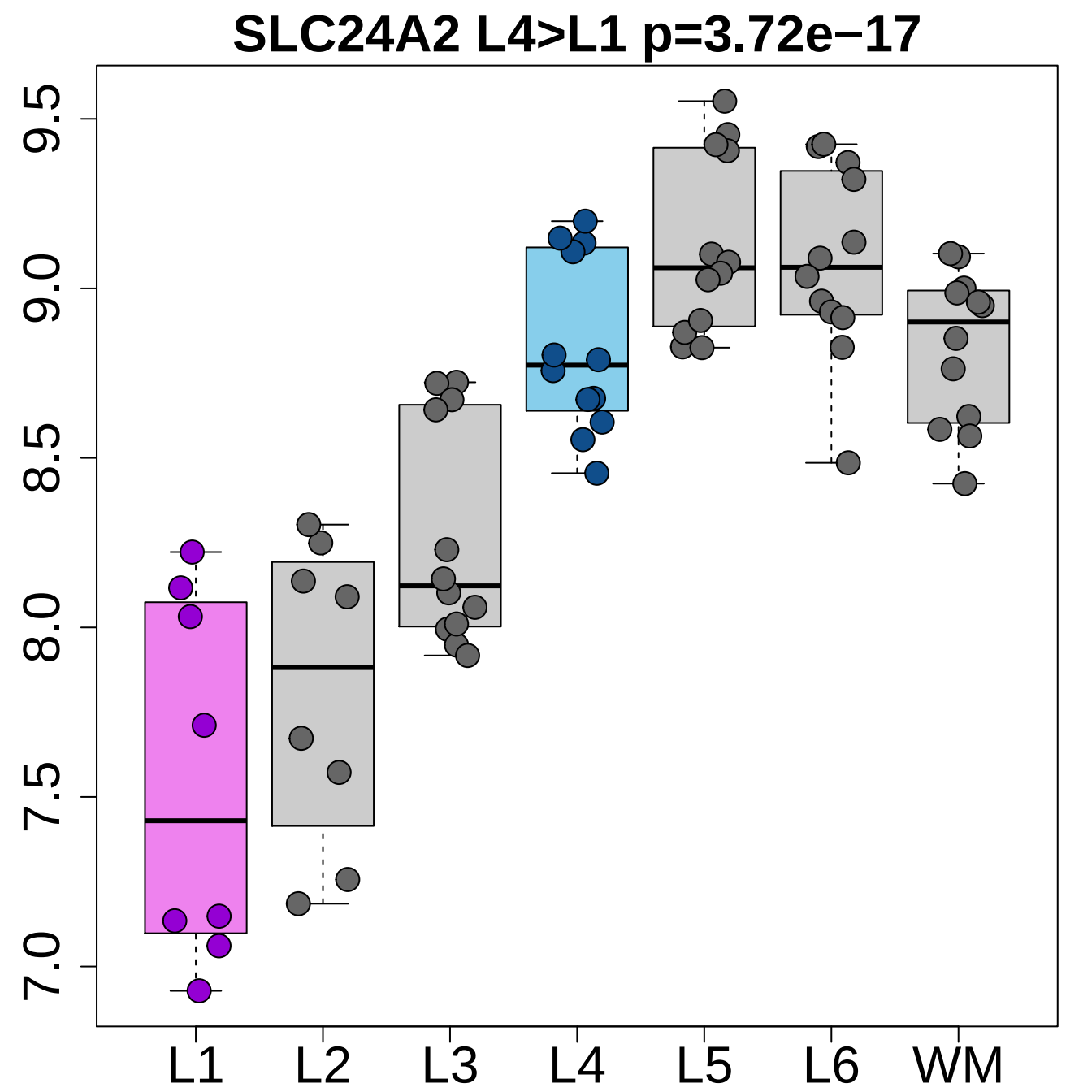

NUAK1 L4>L1 p=2.13e−19
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

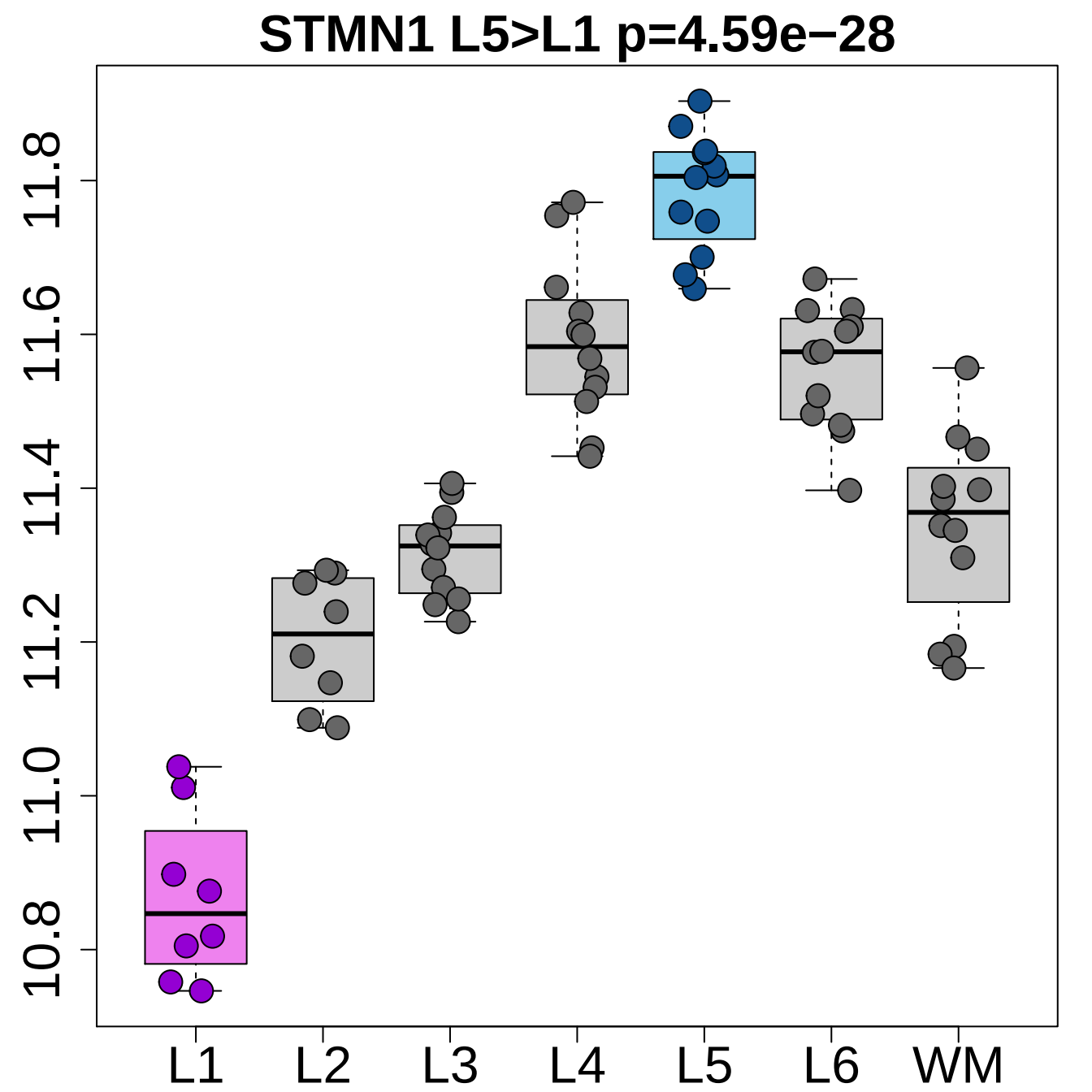

SCN1B L4>L1 p=2.38e−19
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

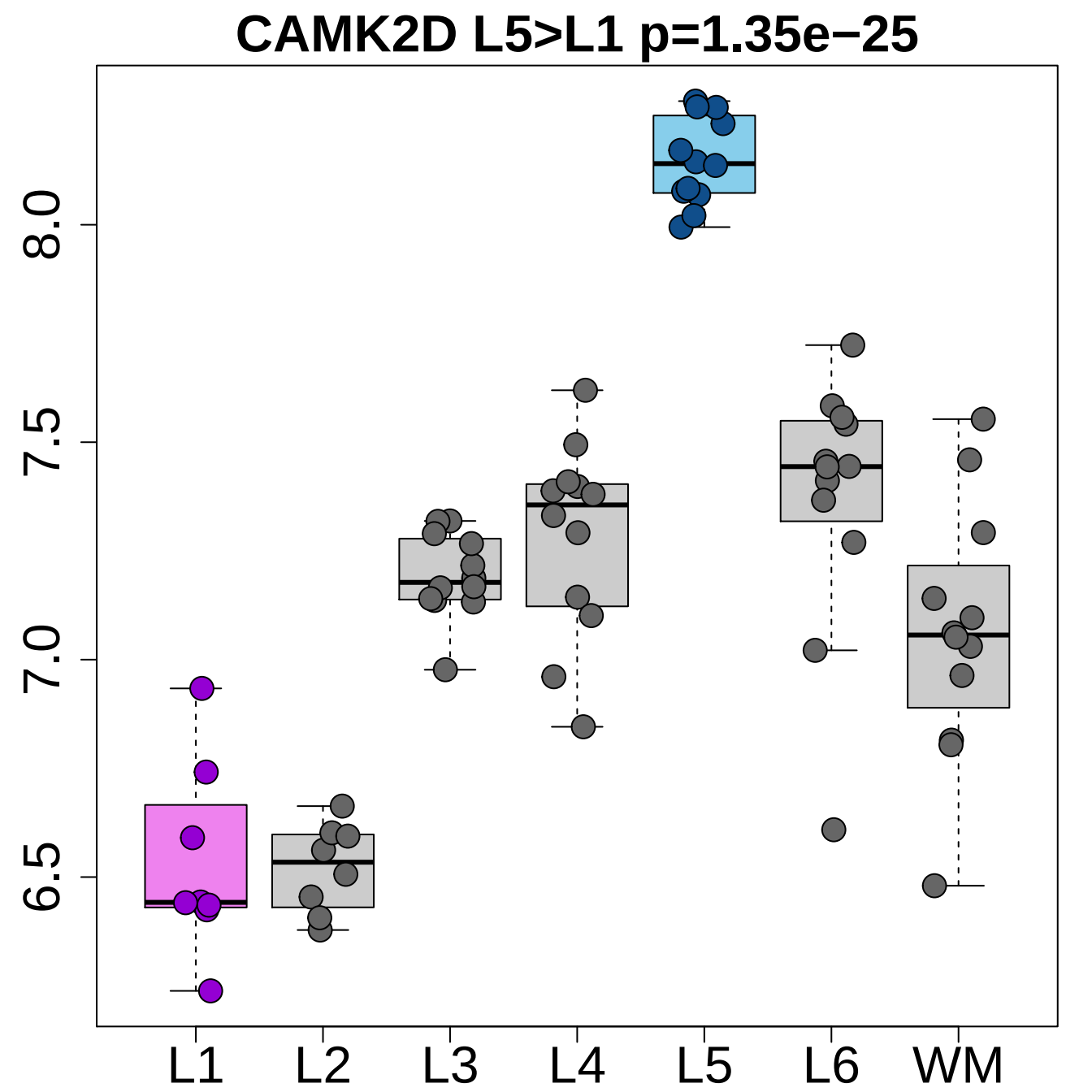

SATB1 L4>L1 p=5.95e−19
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

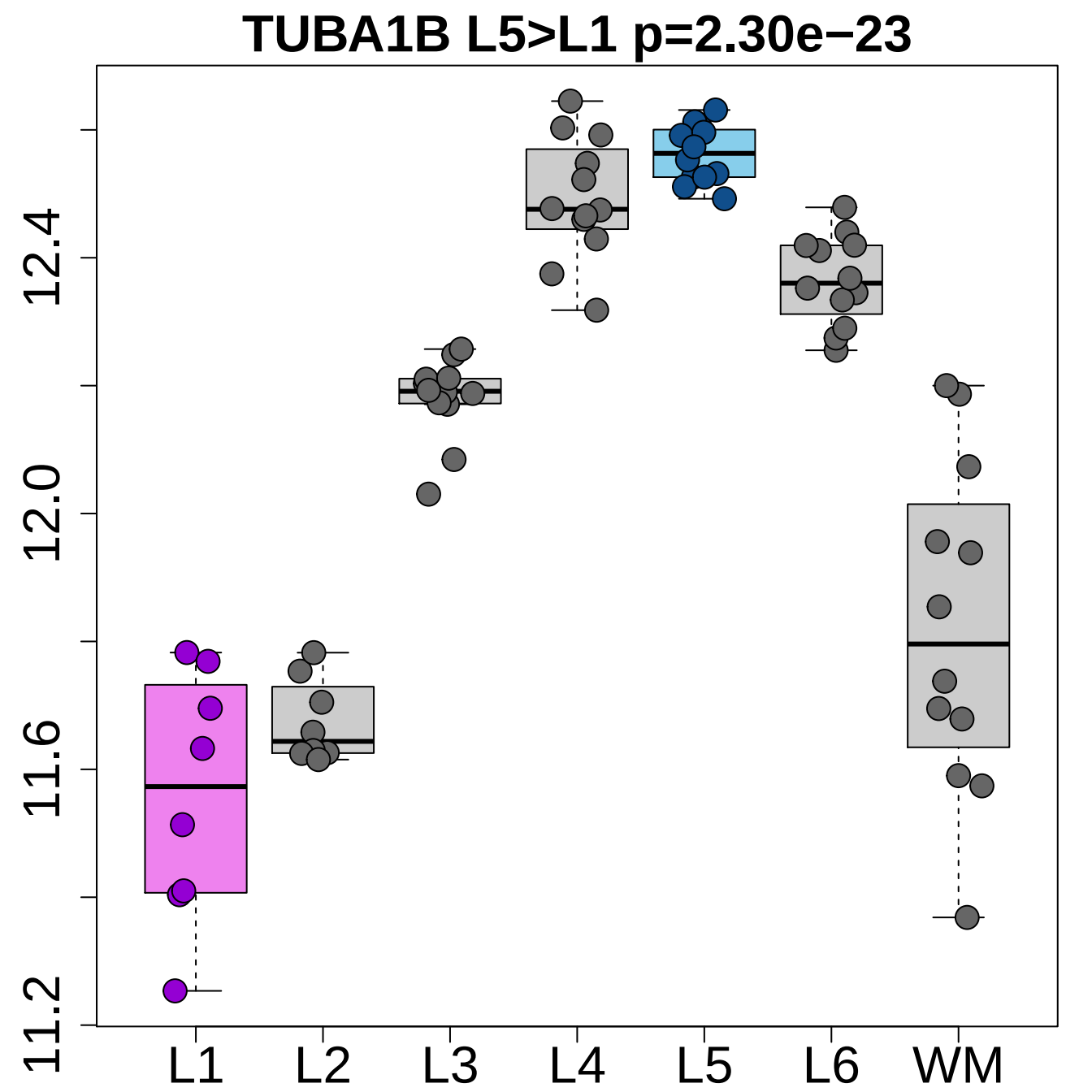

NEFH L4>L1 p=5.82e−18
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

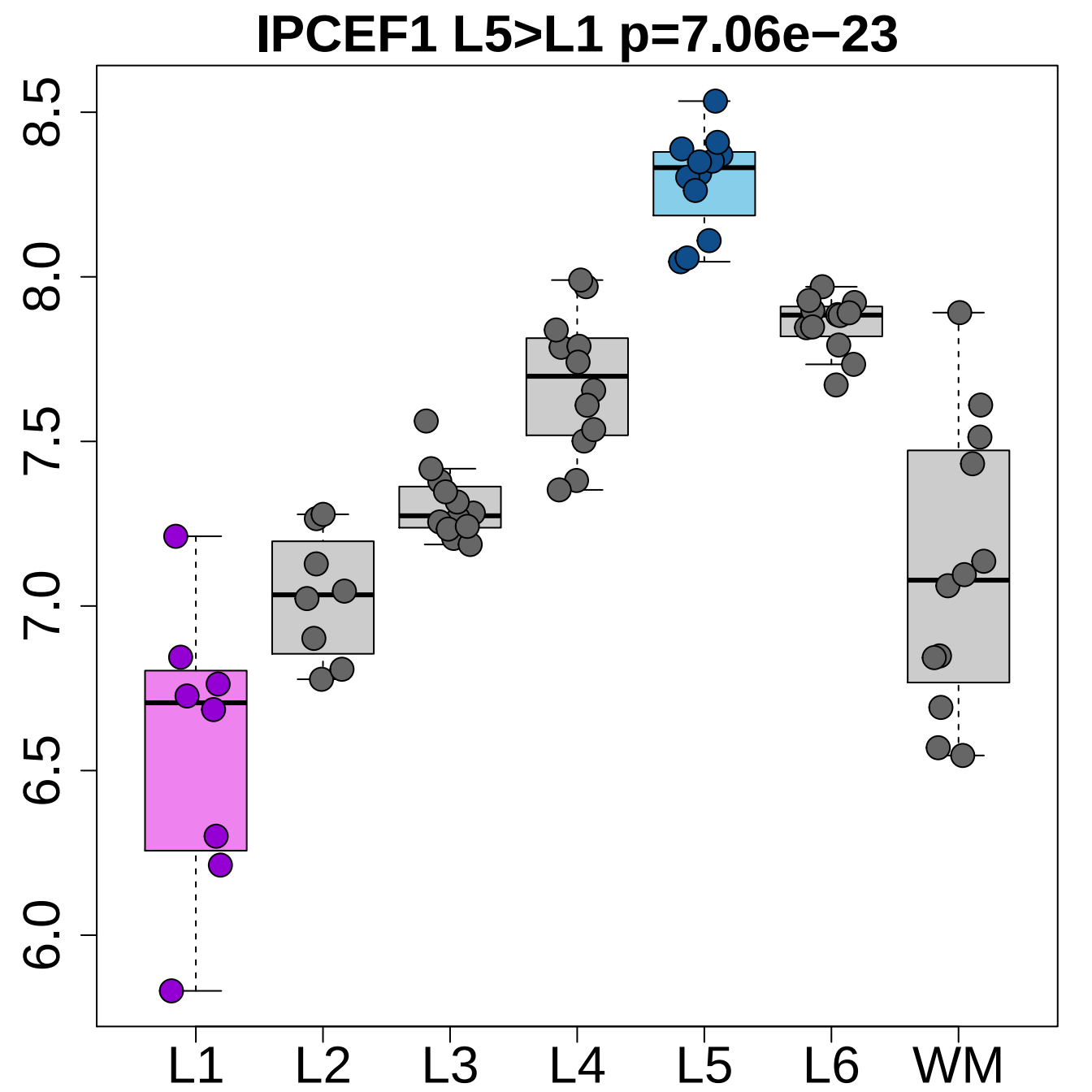

VAMP1 L4>L1 p=1.66e−17
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

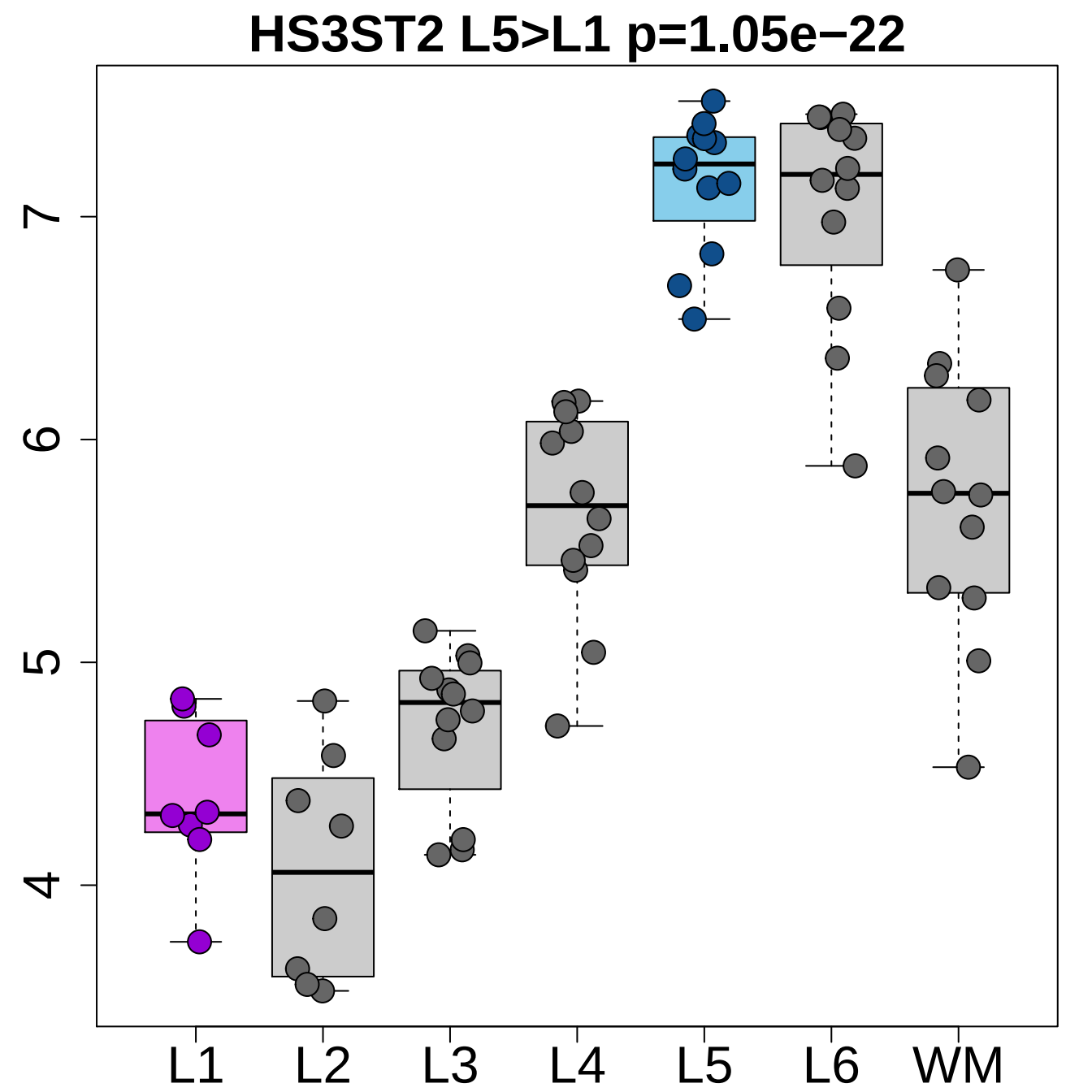

SLC24A2 L4>L1 p=3.72e−17
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

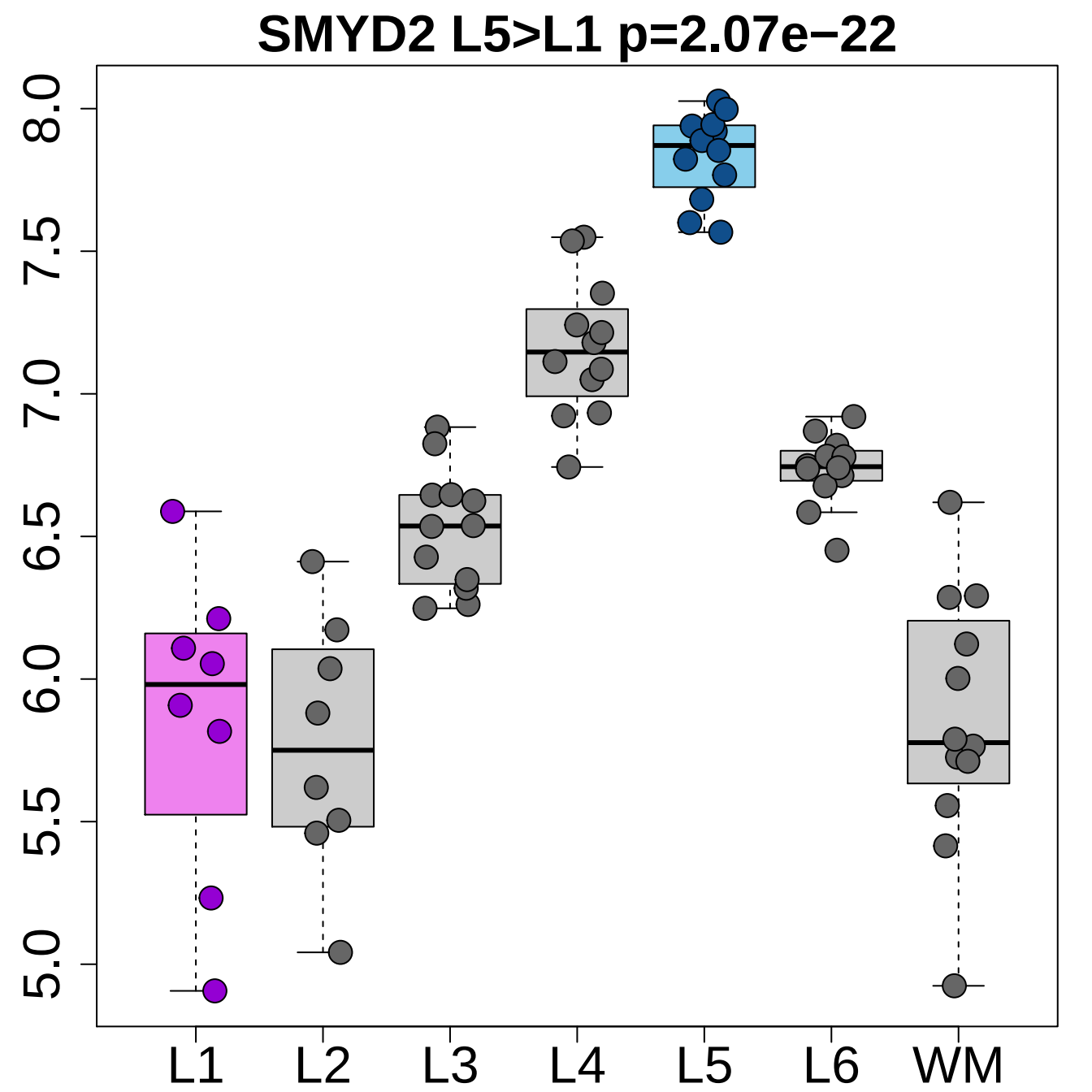

STMN1 L5>L1 p=4.59e−28
11.8
11.6
11.4
11.2
11.0
10.8
L1
L2
L3
L4
L5
L6
WM

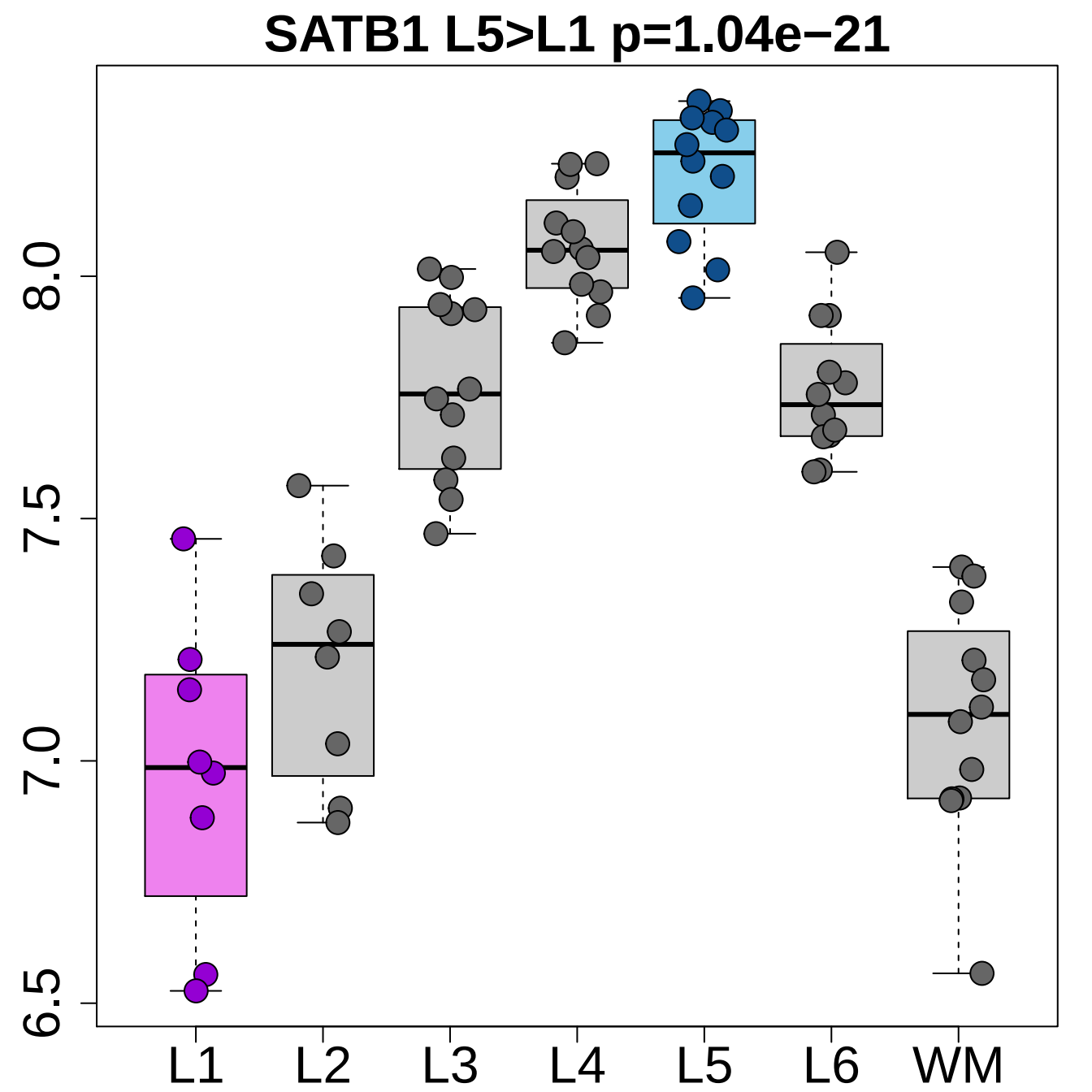

CAMK2D L5>L1 p=1.35e−25
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

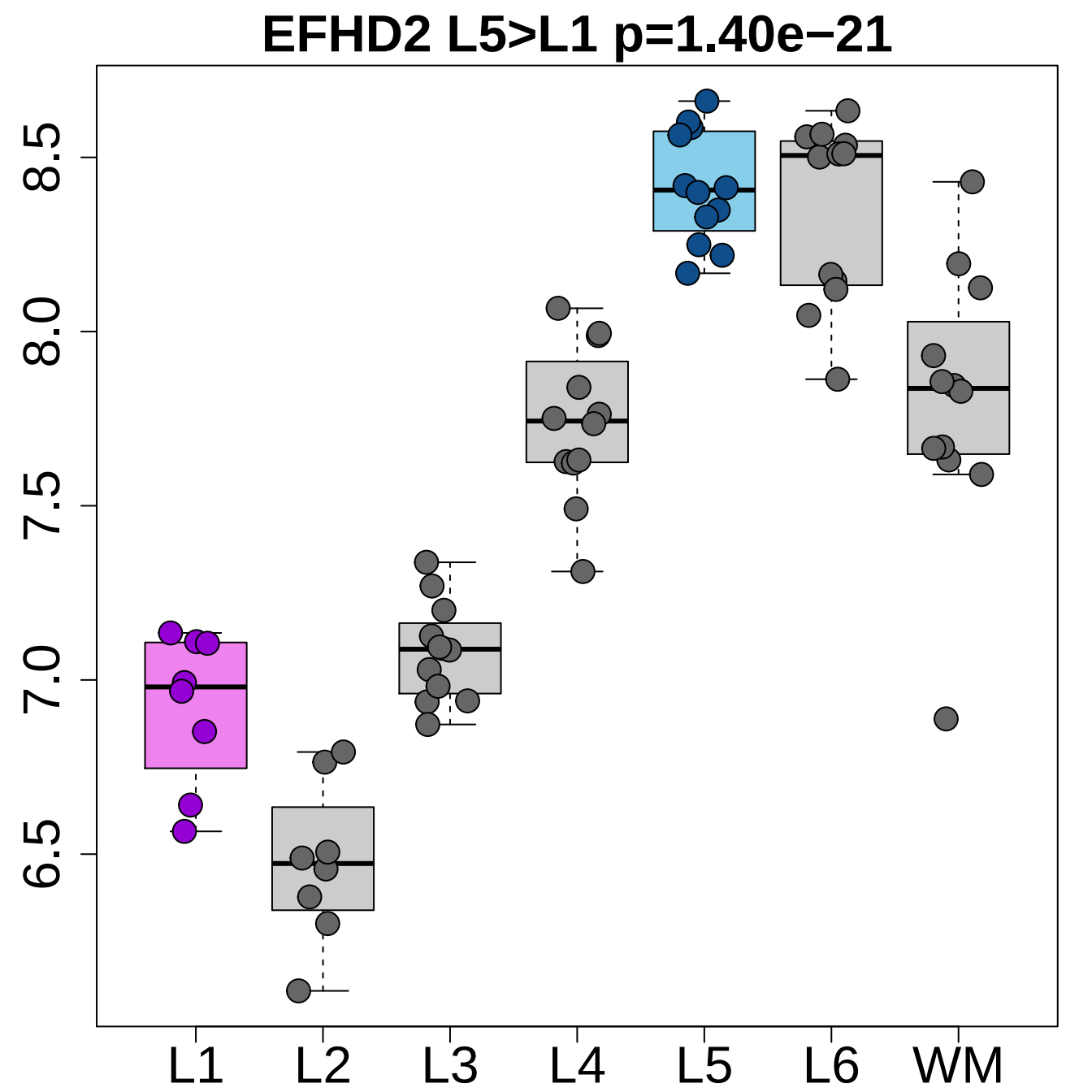

TUBA1B L5>L1 p=2.30e−23
12.4
12.0
11.6
11.2
L1
L2
L3
L4
L5
L6
WM

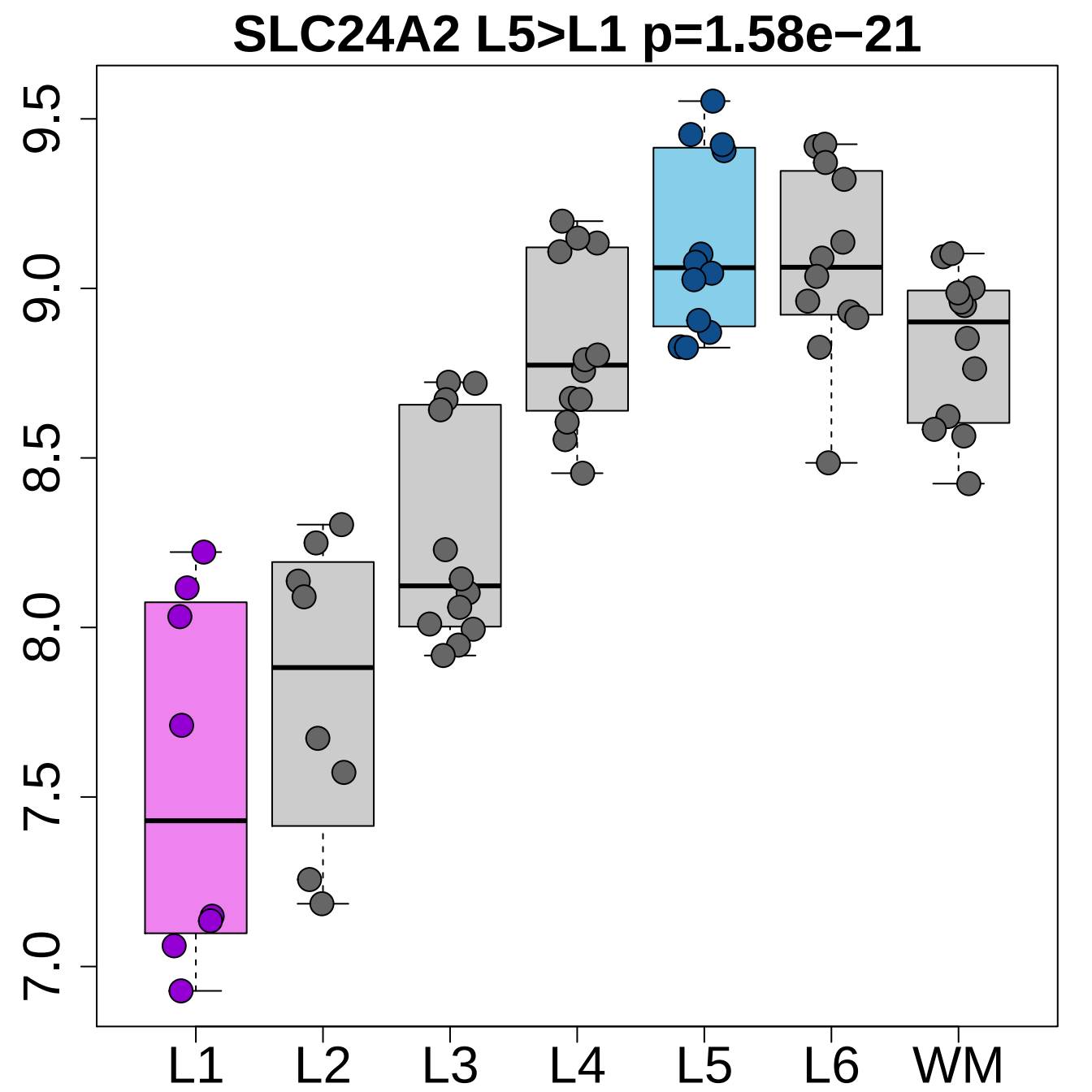

IPCEF1 L5>L1 p=7.06e−23
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

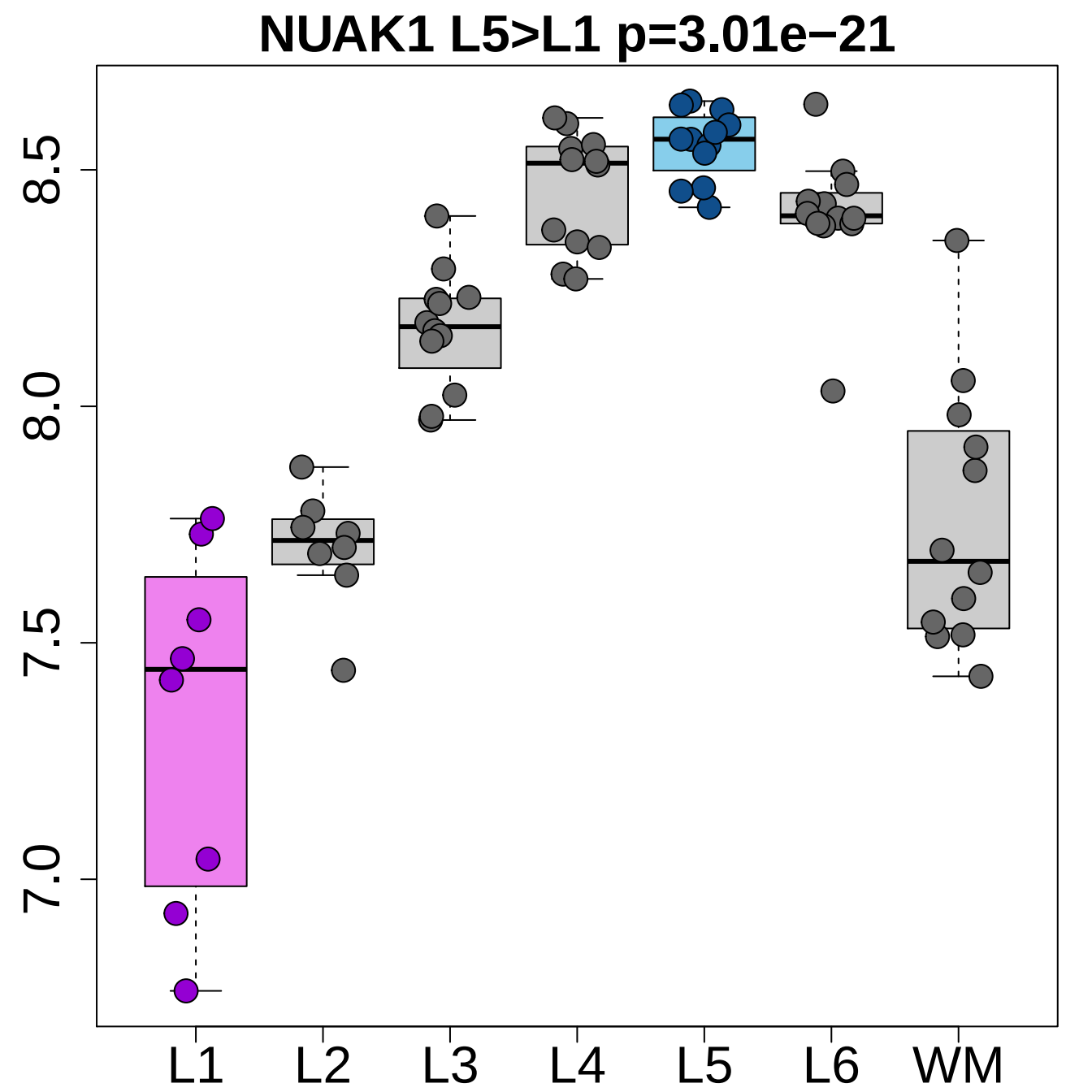

HS3ST2 L5>L1 p=1.05e−22
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

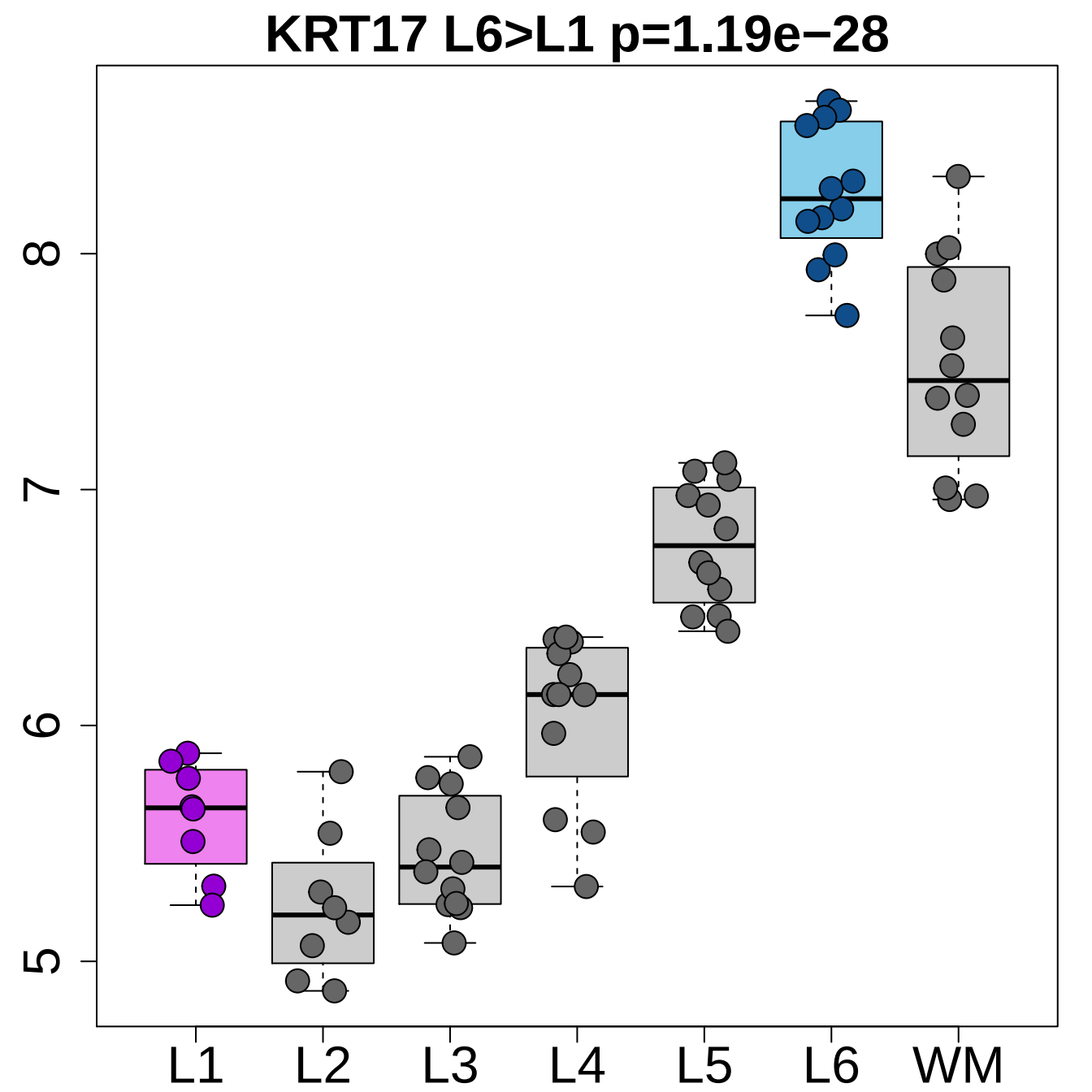

SMYD2 L5>L1 p=2.07e−22
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

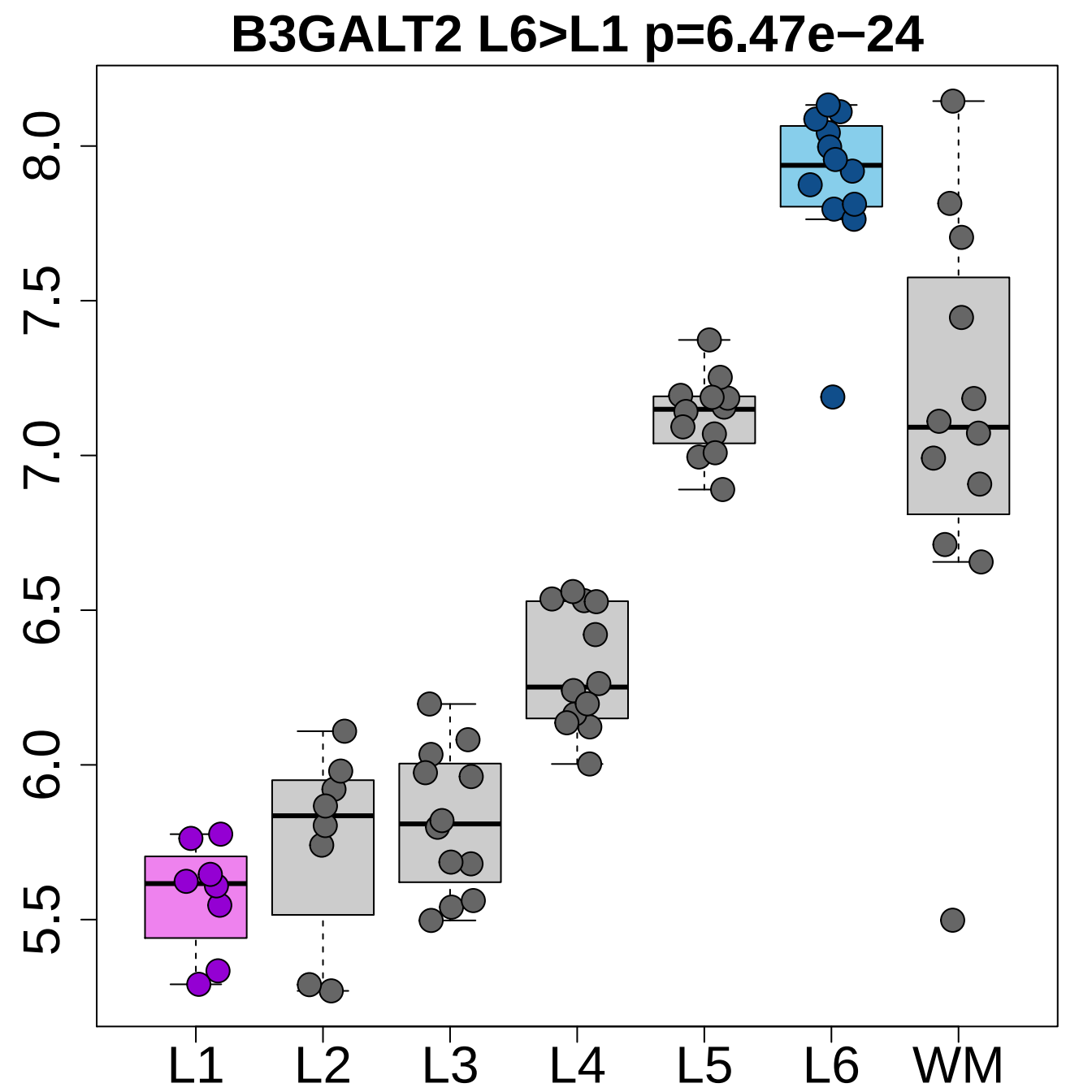

SATB1 L5>L1 p=1.04e−21
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

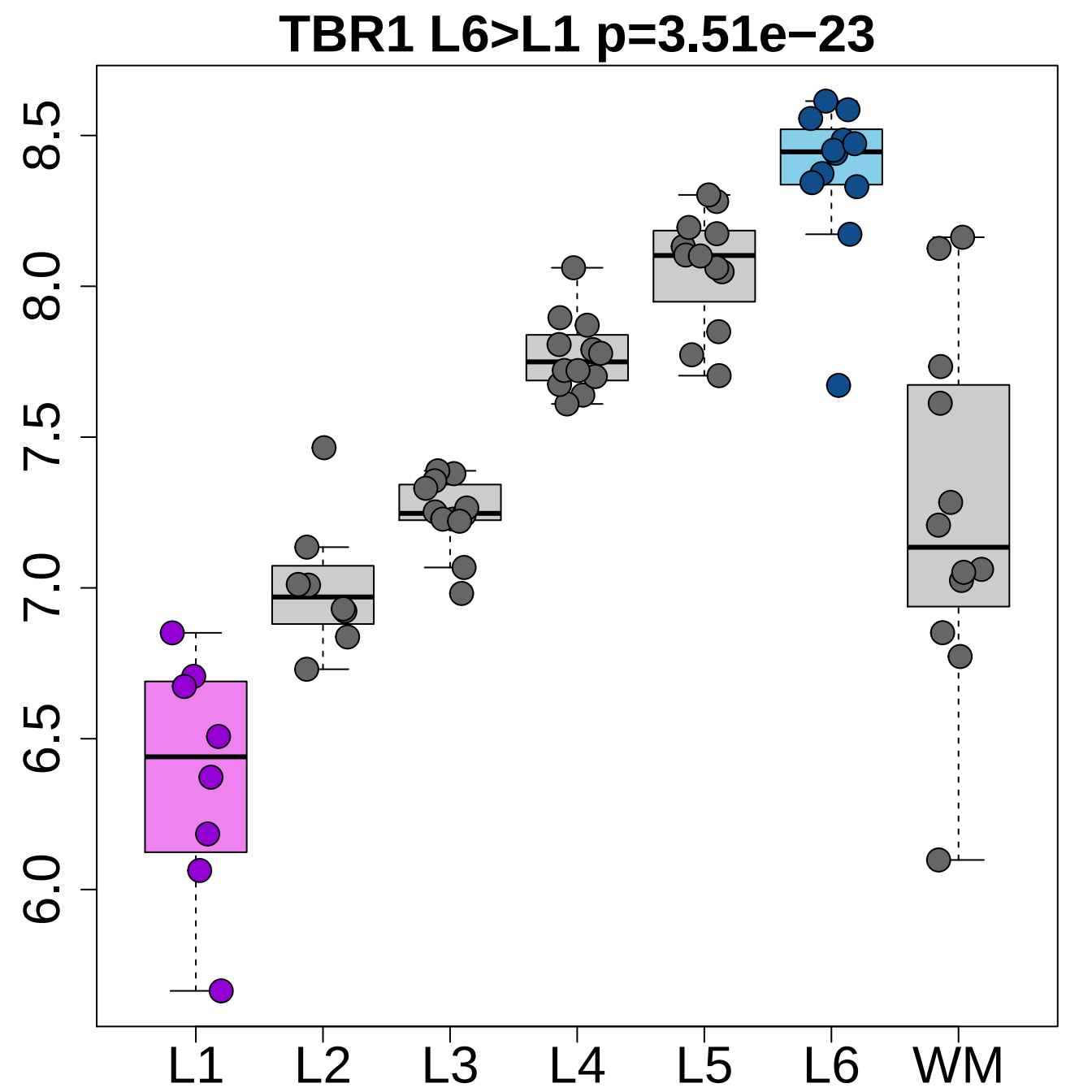

EFHD2 L5>L1 p=1.40e−21
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

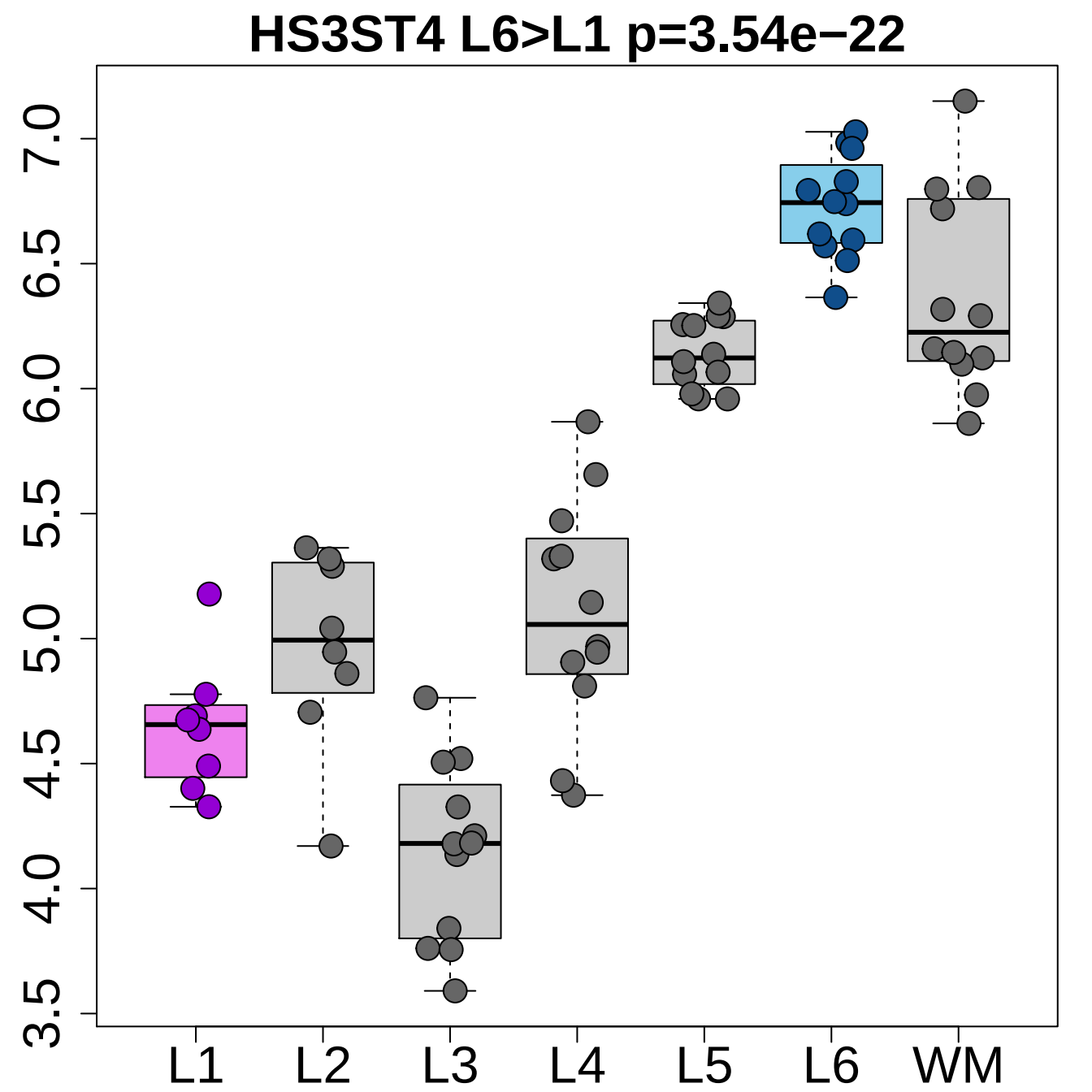

SLC24A2 L5>L1 p=1.58e−21
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

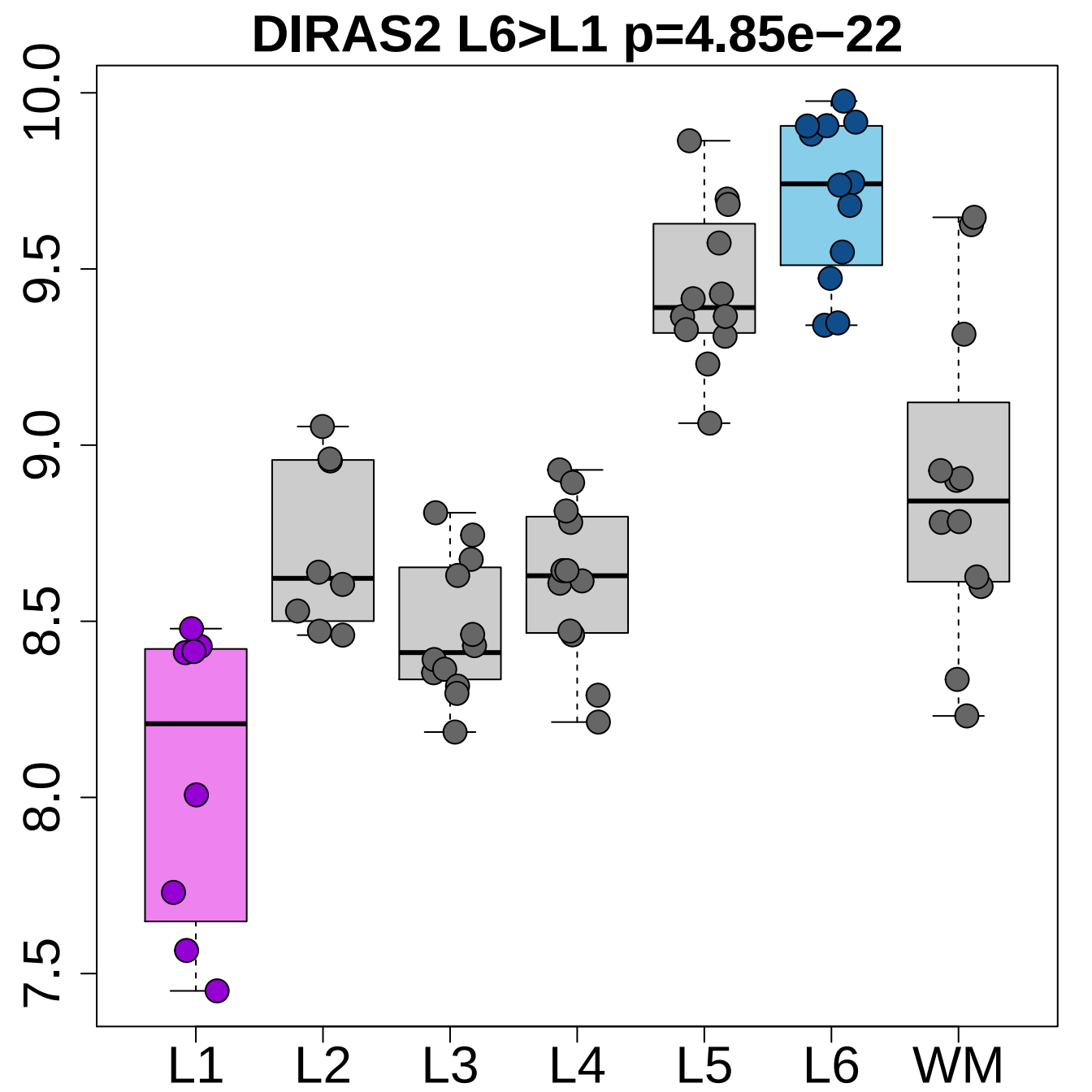

NUAK1 L5>L1 p=3.01e−21
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM

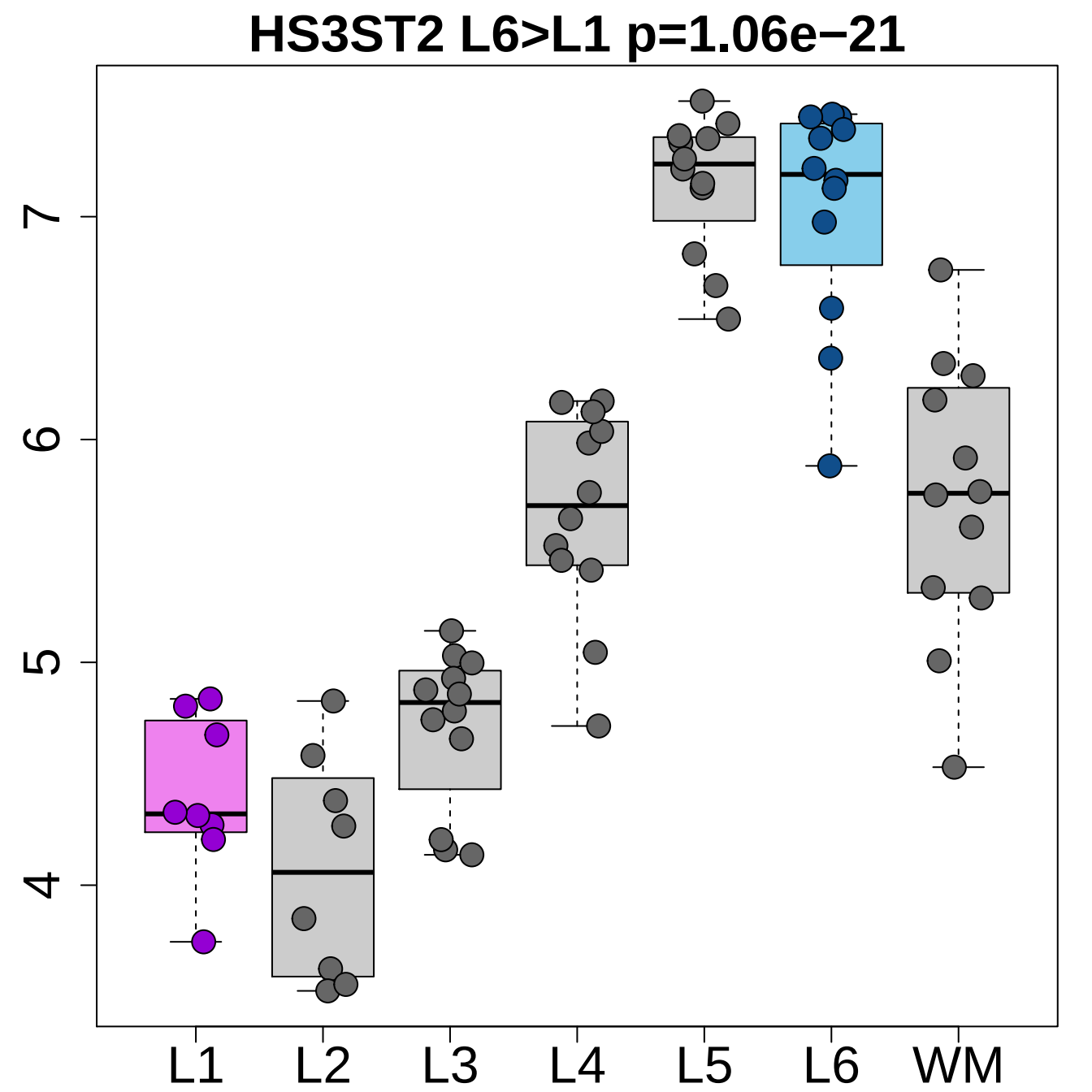

KRT17 L6>L1 p=1.19e−28
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

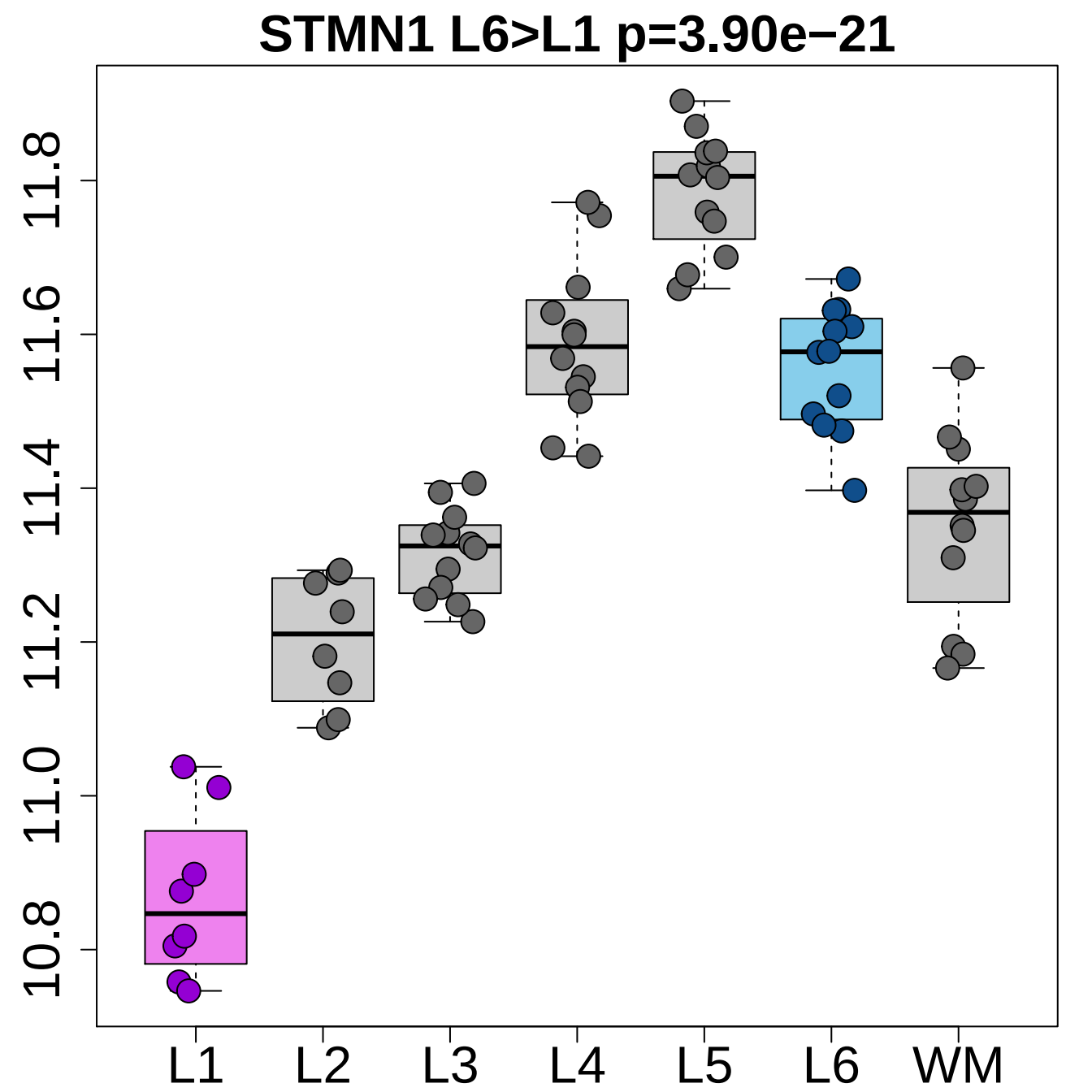

B3GALT2 L6>L1 p=6.47e−24
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM

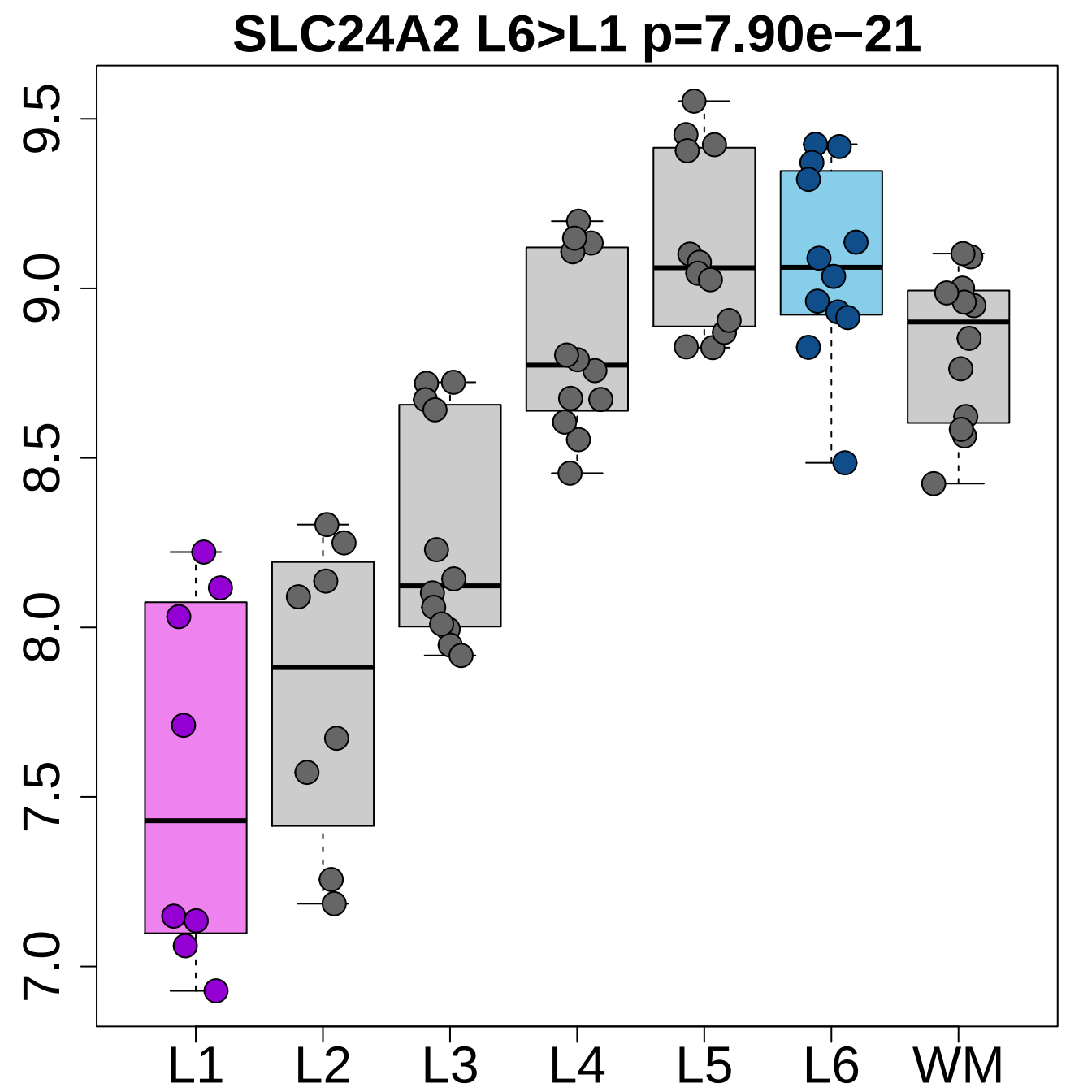

TBR1 L6>L1 p=3.51e−23
8.5
8.0
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM

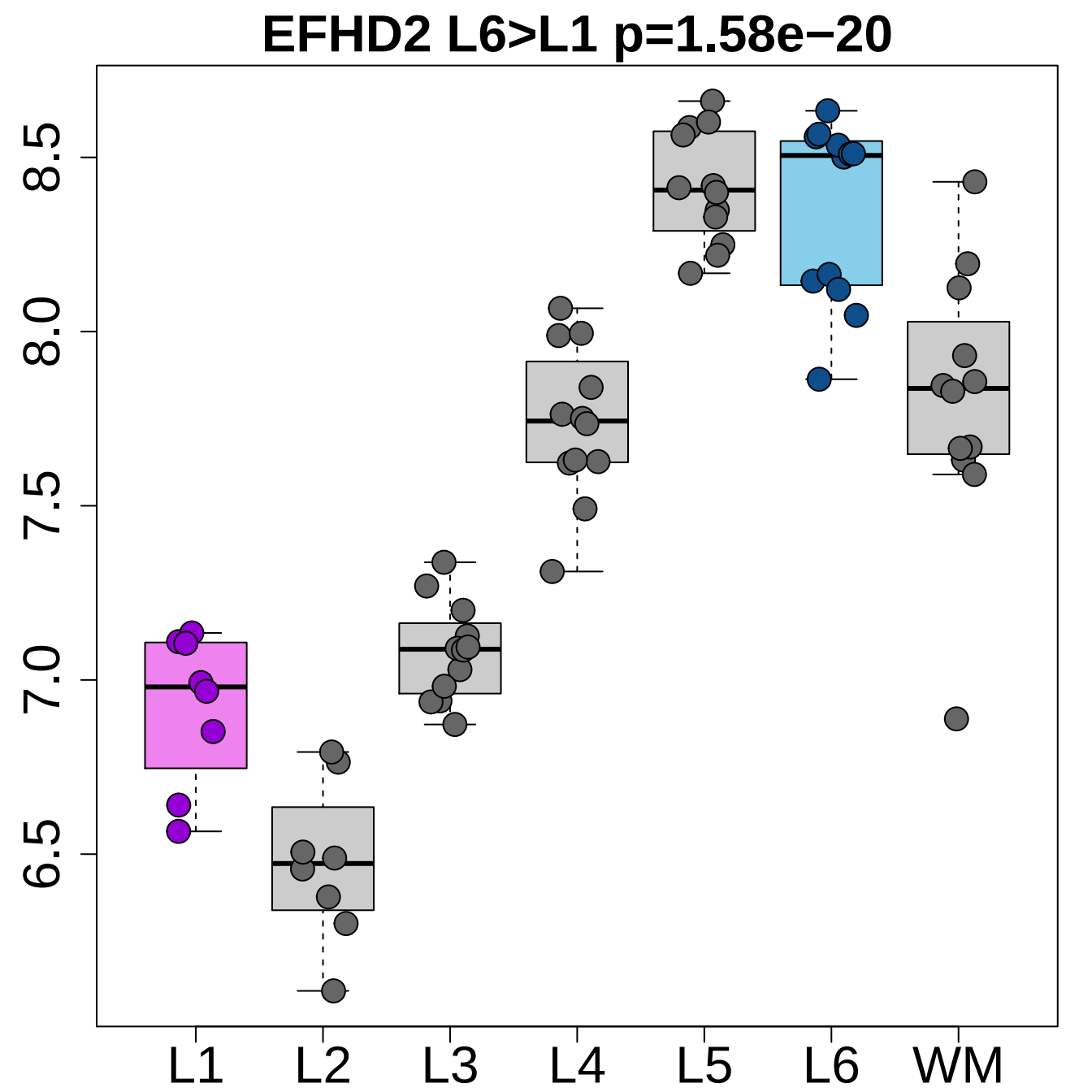

HS3ST4 L6>L1 p=3.54e−22
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


DIRAS2 L6>L1 p=4.85e−22
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


HS3ST2 L6>L1 p=1.06e−21
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


STMN1 L6>L1 p=3.90e−21
10.8
11.0
11.2
11.4
11.6
11.8
L1
L2
L3
L4
L5
L6
WM


SLC24A2 L6>L1 p=7.90e−21
9.5
9.0
8.5
8.0
7.5
7.0
L1
L2
L3
L4
L5
L6
WM


EFHD2 L6>L1 p=1.58e−20
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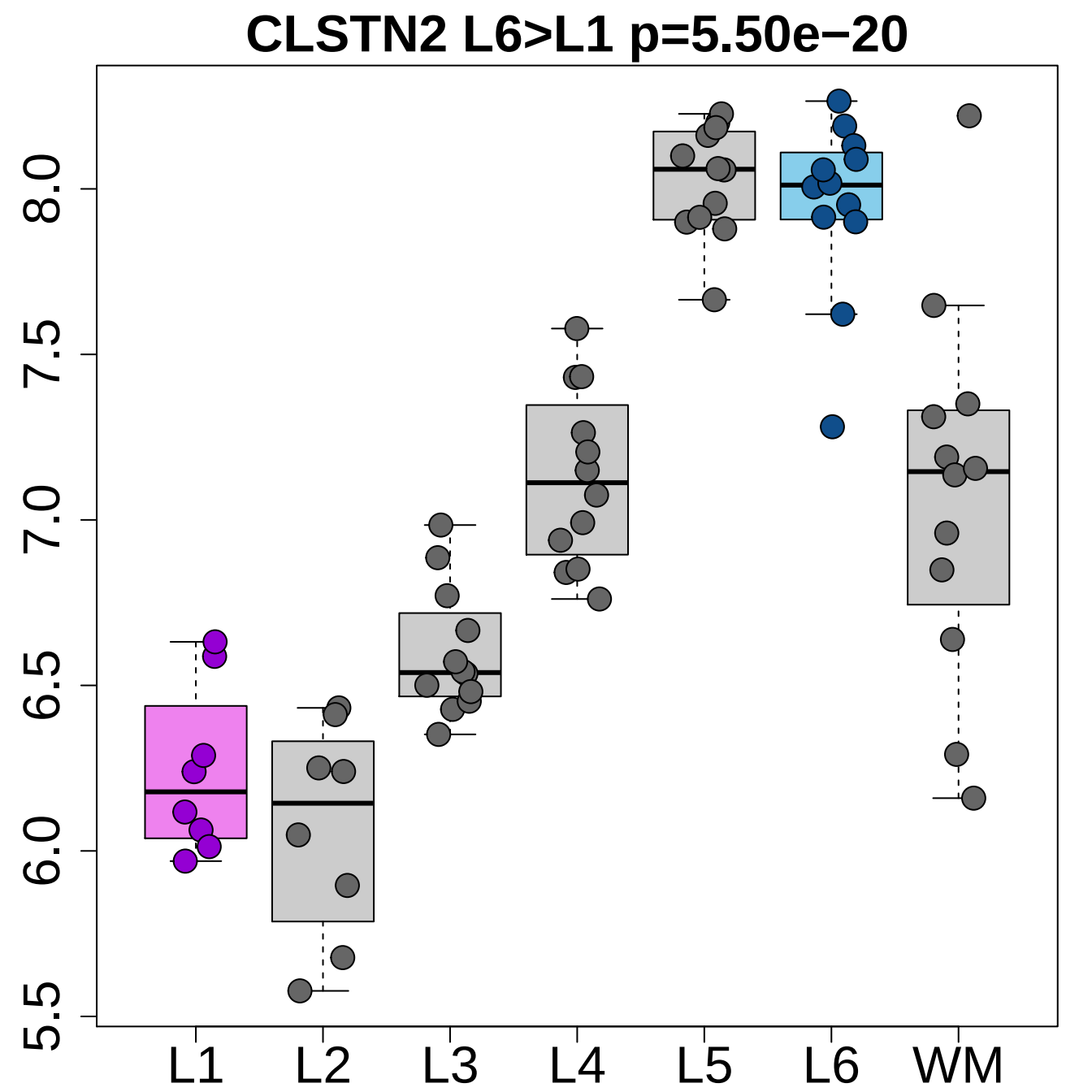
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


CLSTN2 L6>L1 p=5.50e−20
8.0
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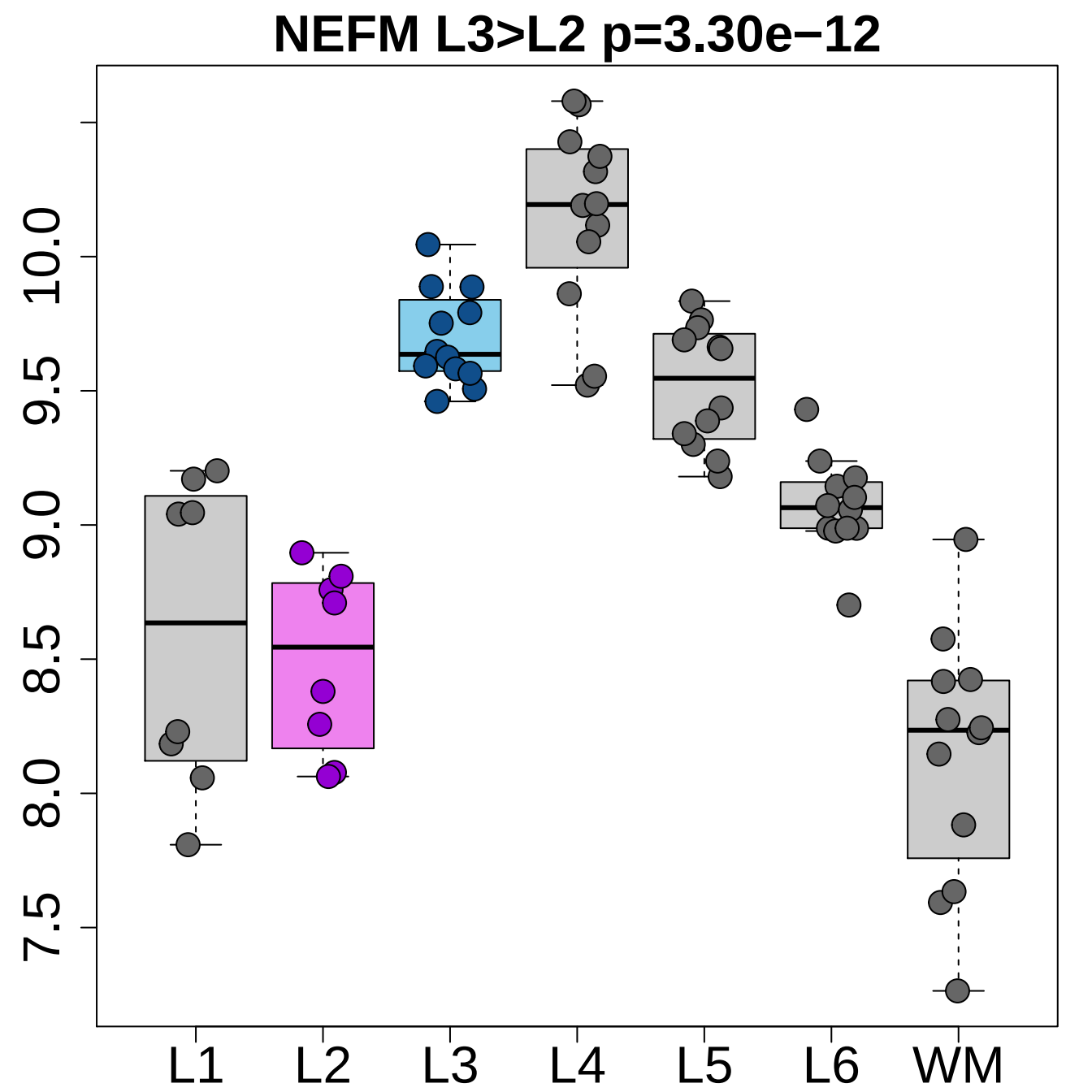
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


NEFM L3>L2 p=3.30e−12
10.0
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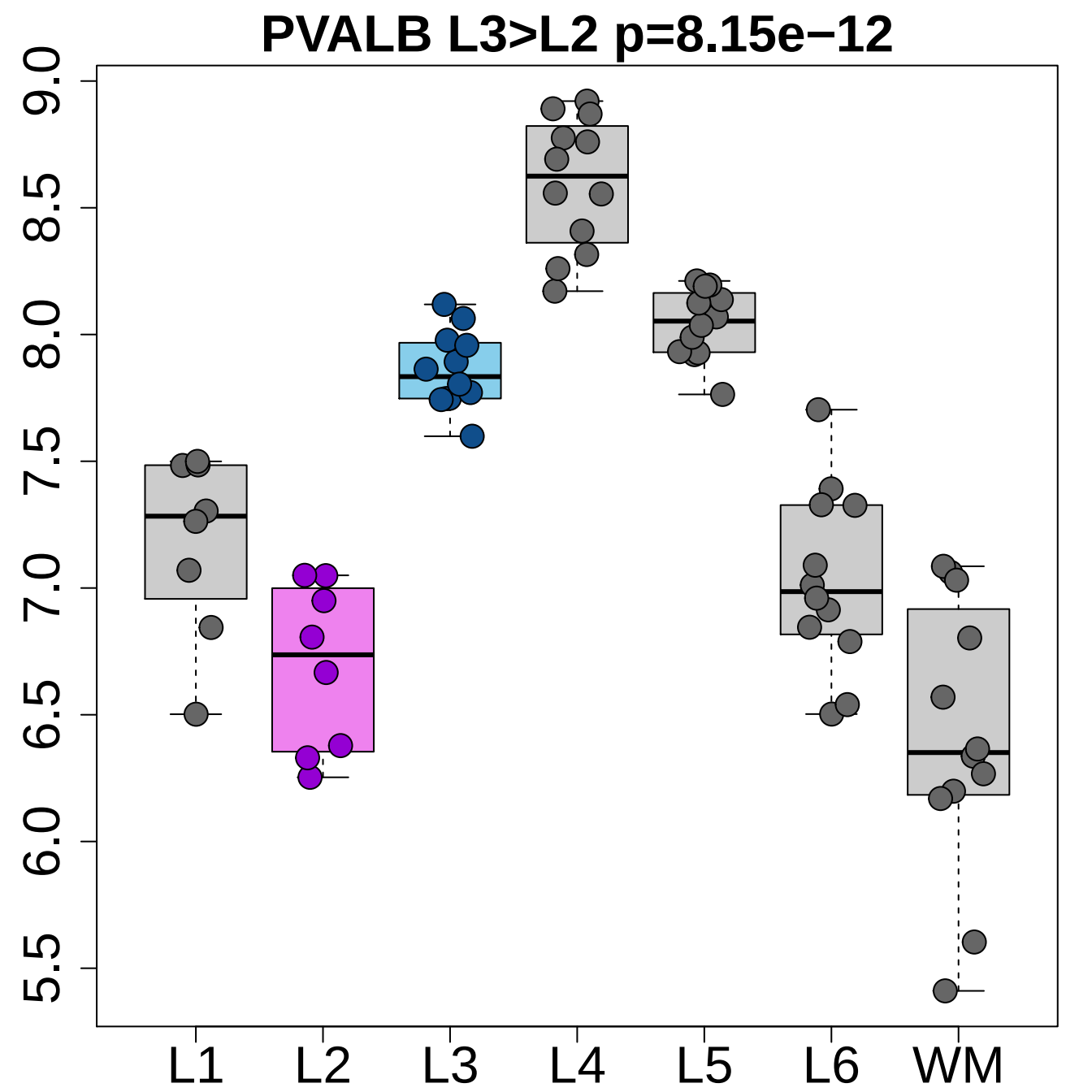
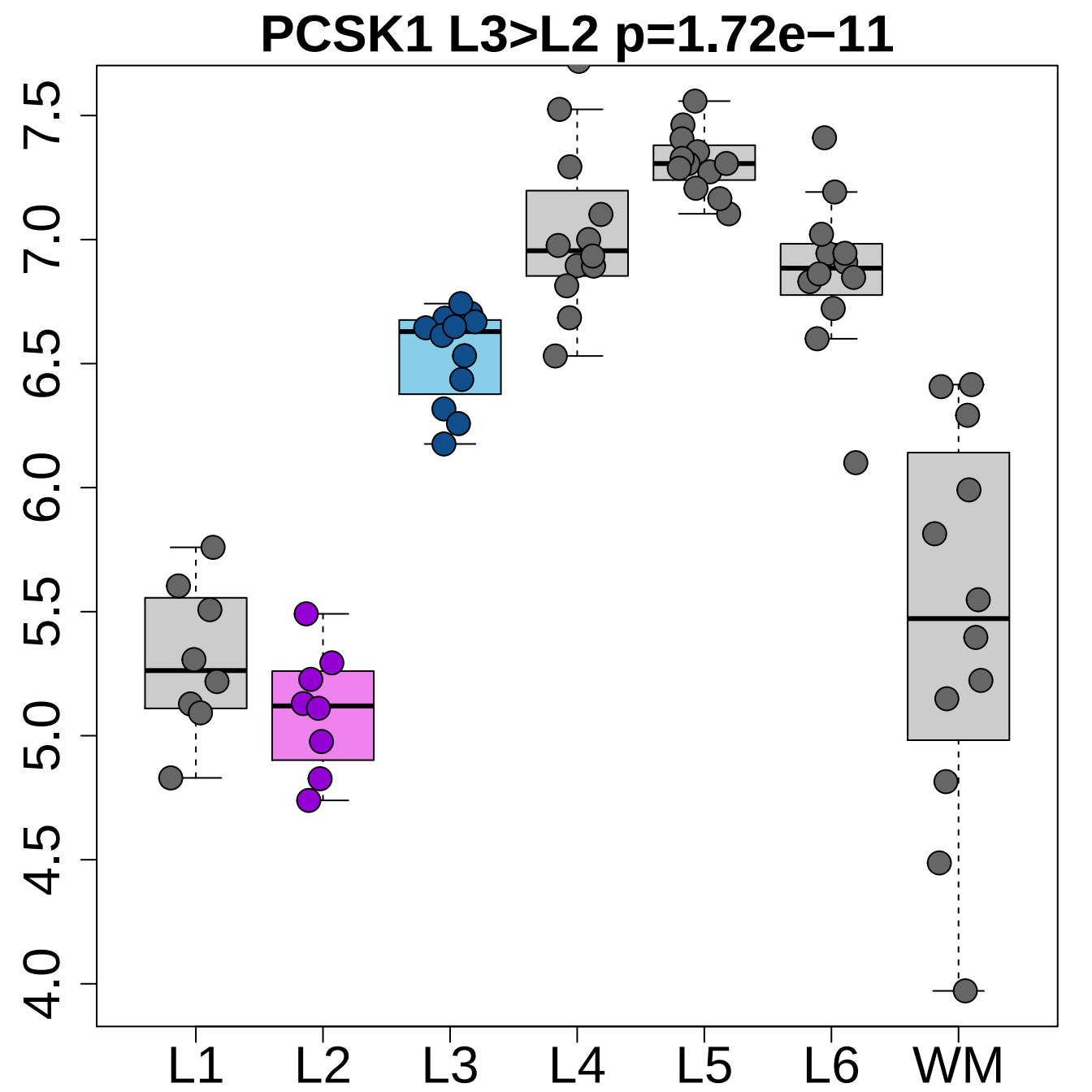
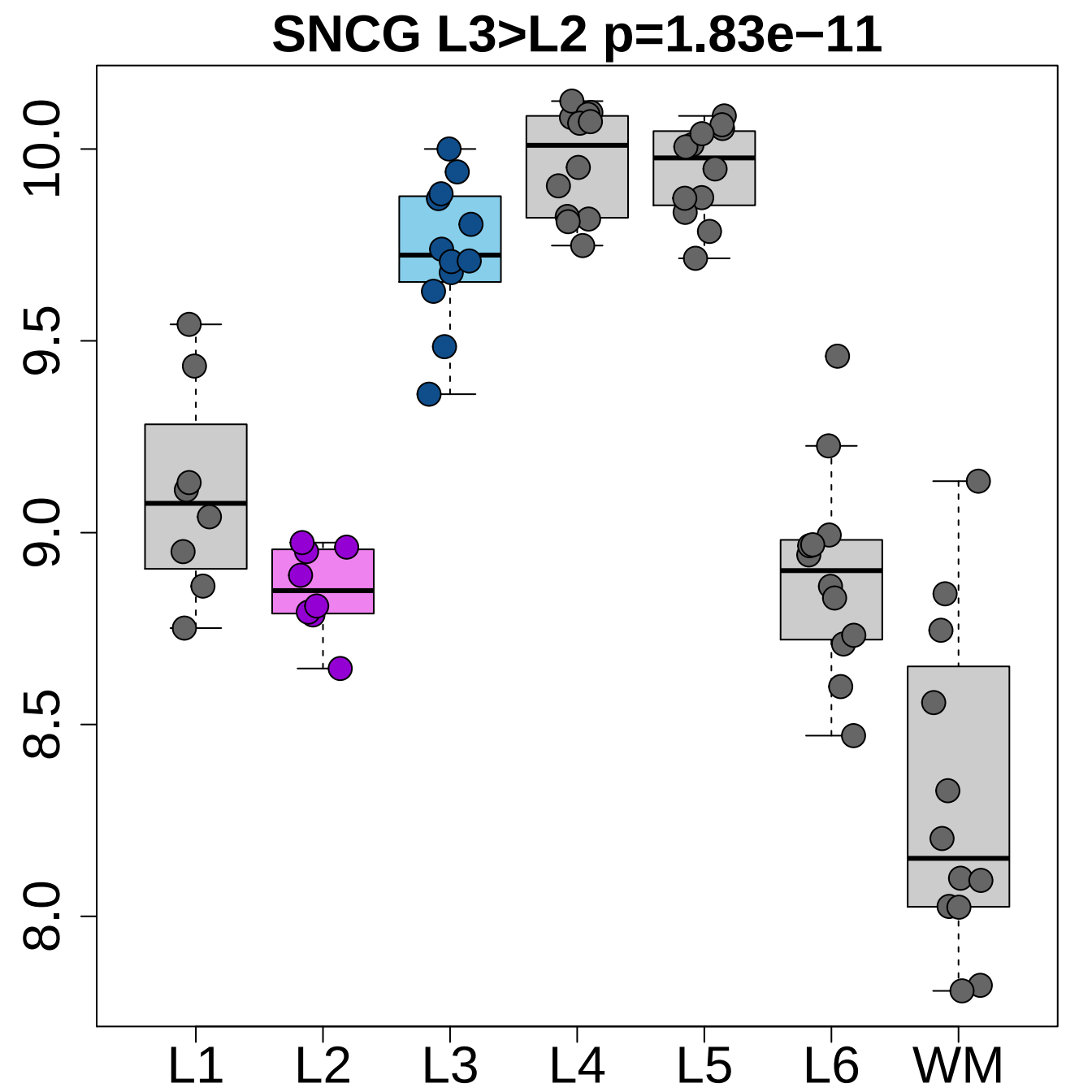
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


PVALB L3>L2 p=8.15e−12
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


PCSK1 L3>L2 p=1.72e−11
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM


SNCG L3>L2 p=1.83e−11
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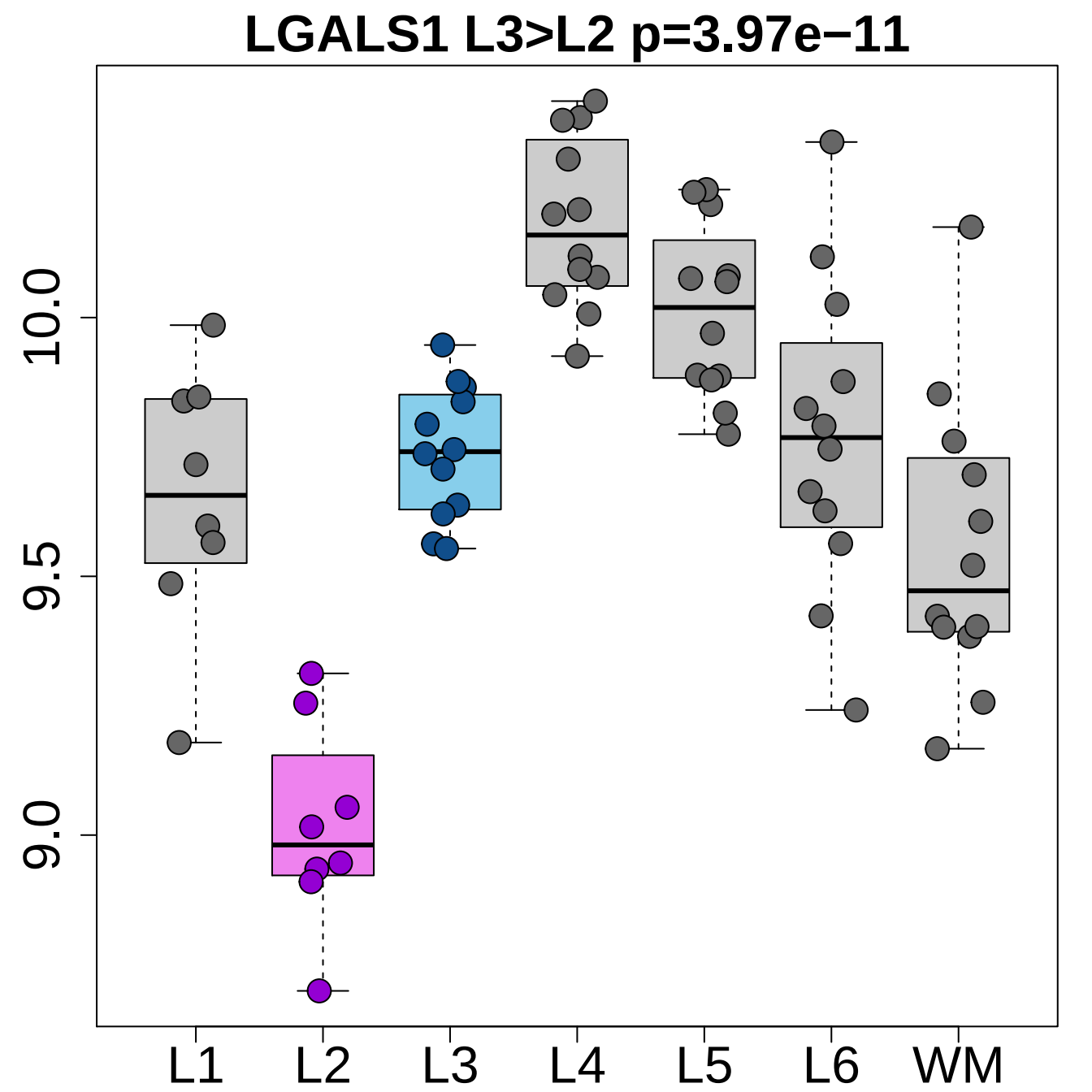
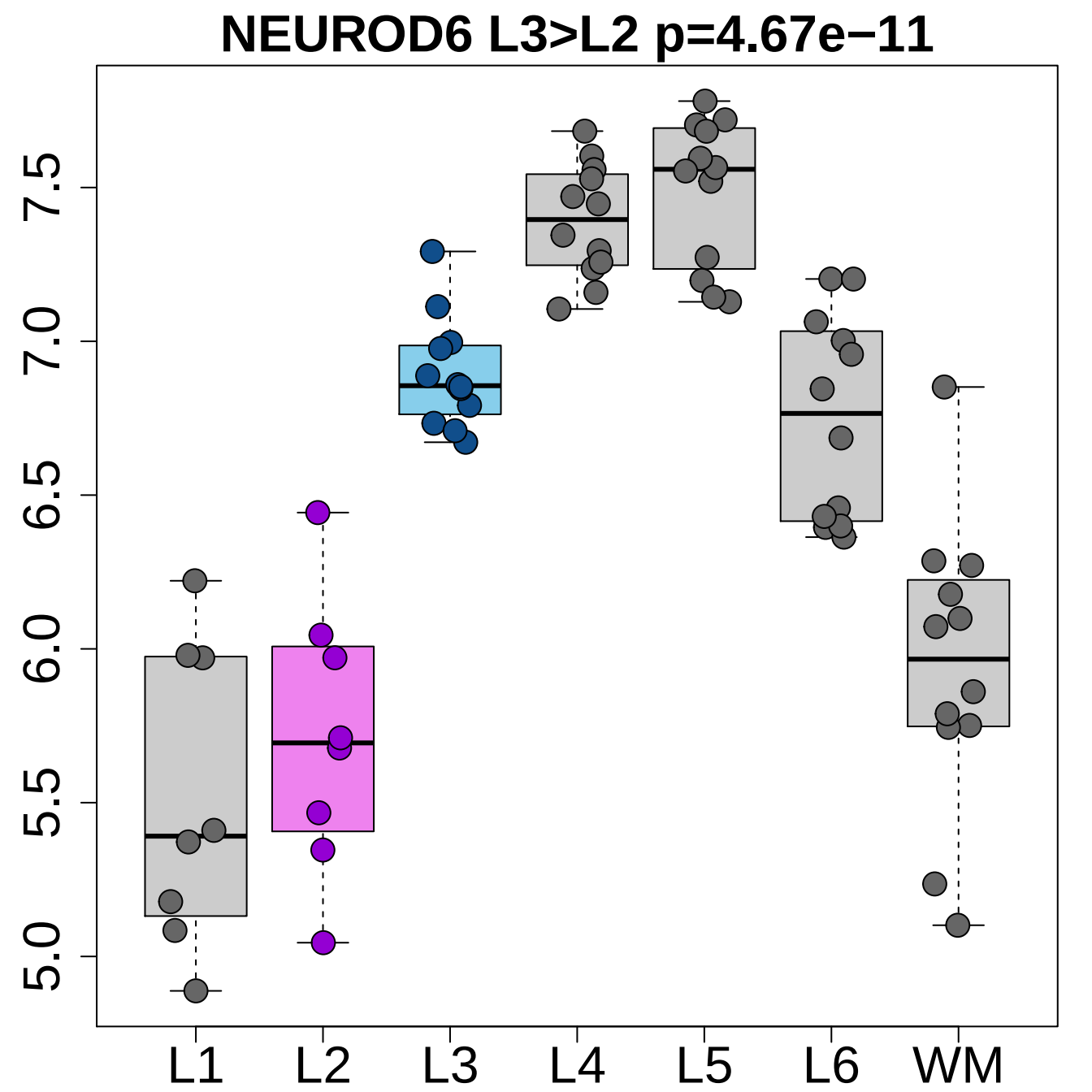
9.5
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM


LGALS1 L3>L2 p=3.97e−11
10.0
9.5
9.0
L1
L2
L3
L4
L5
L6
WM


NEUROD6 L3>L2 p=4.67e−11
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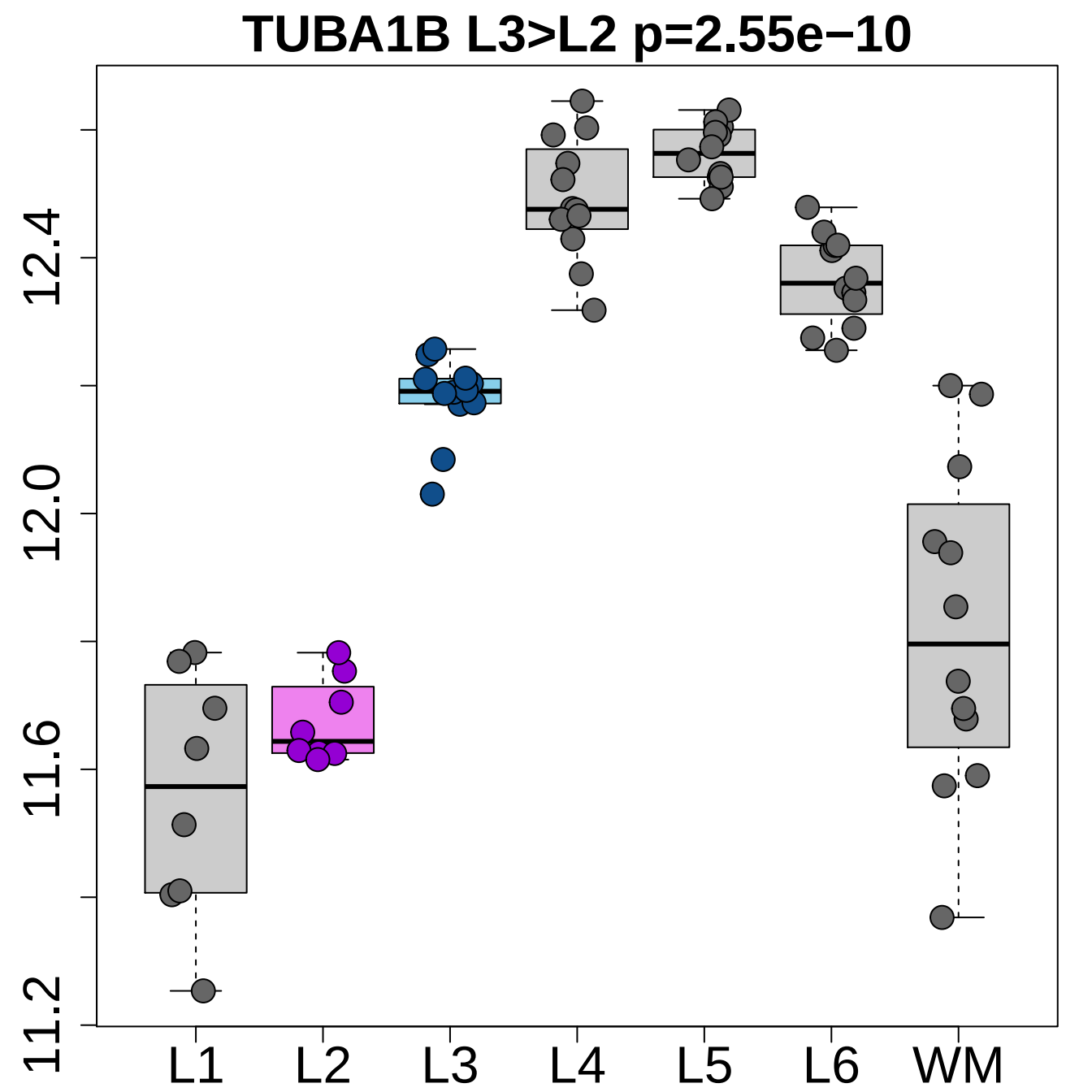
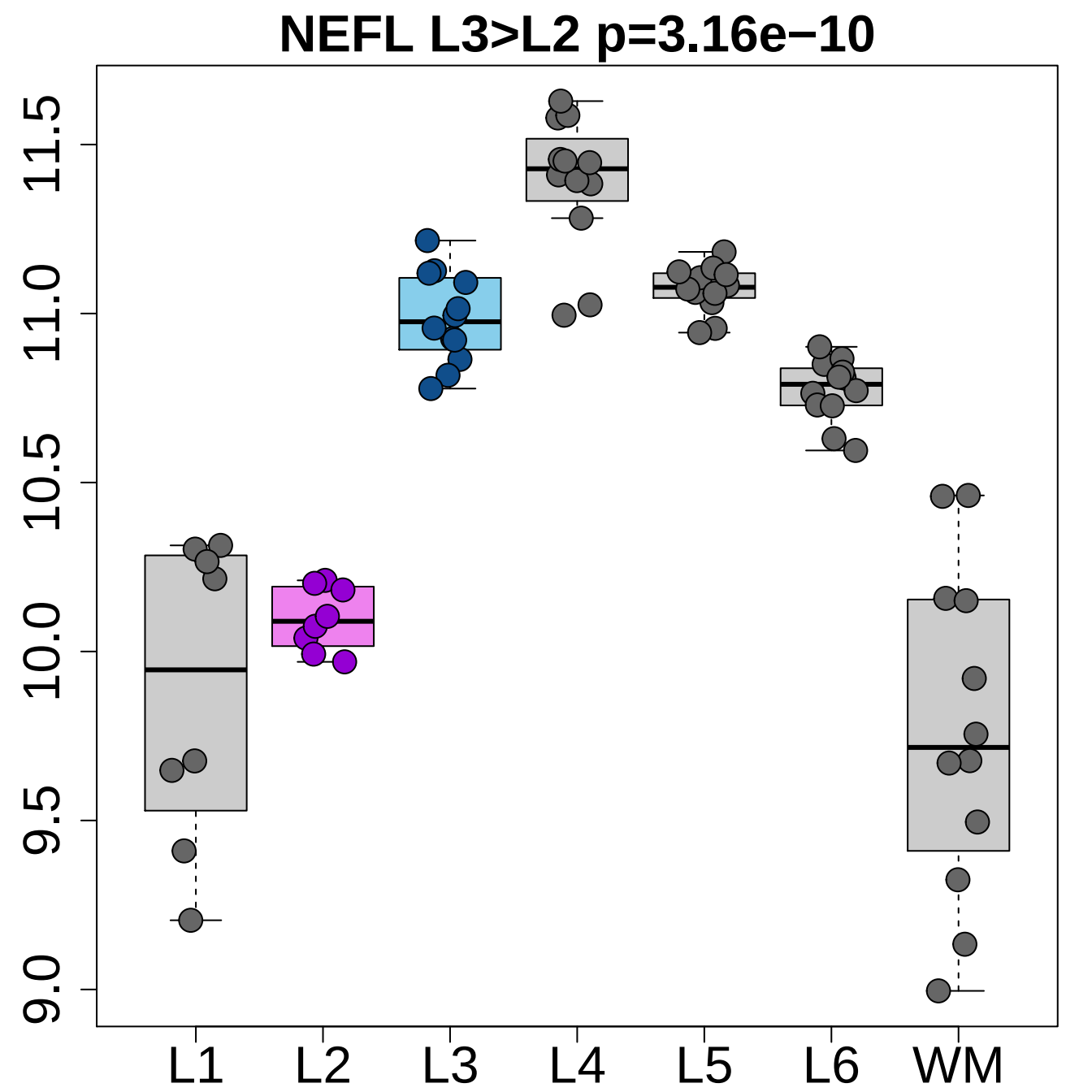
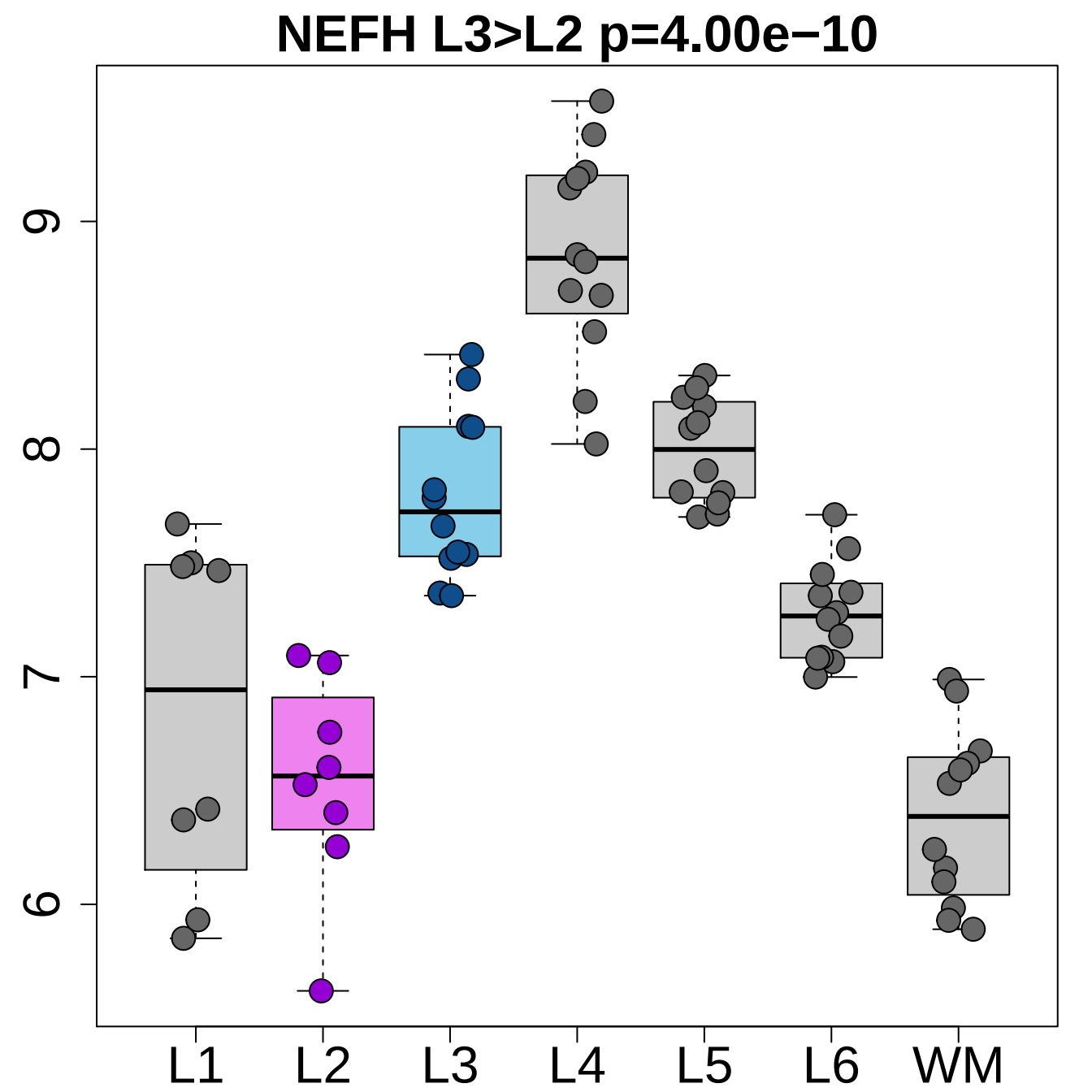
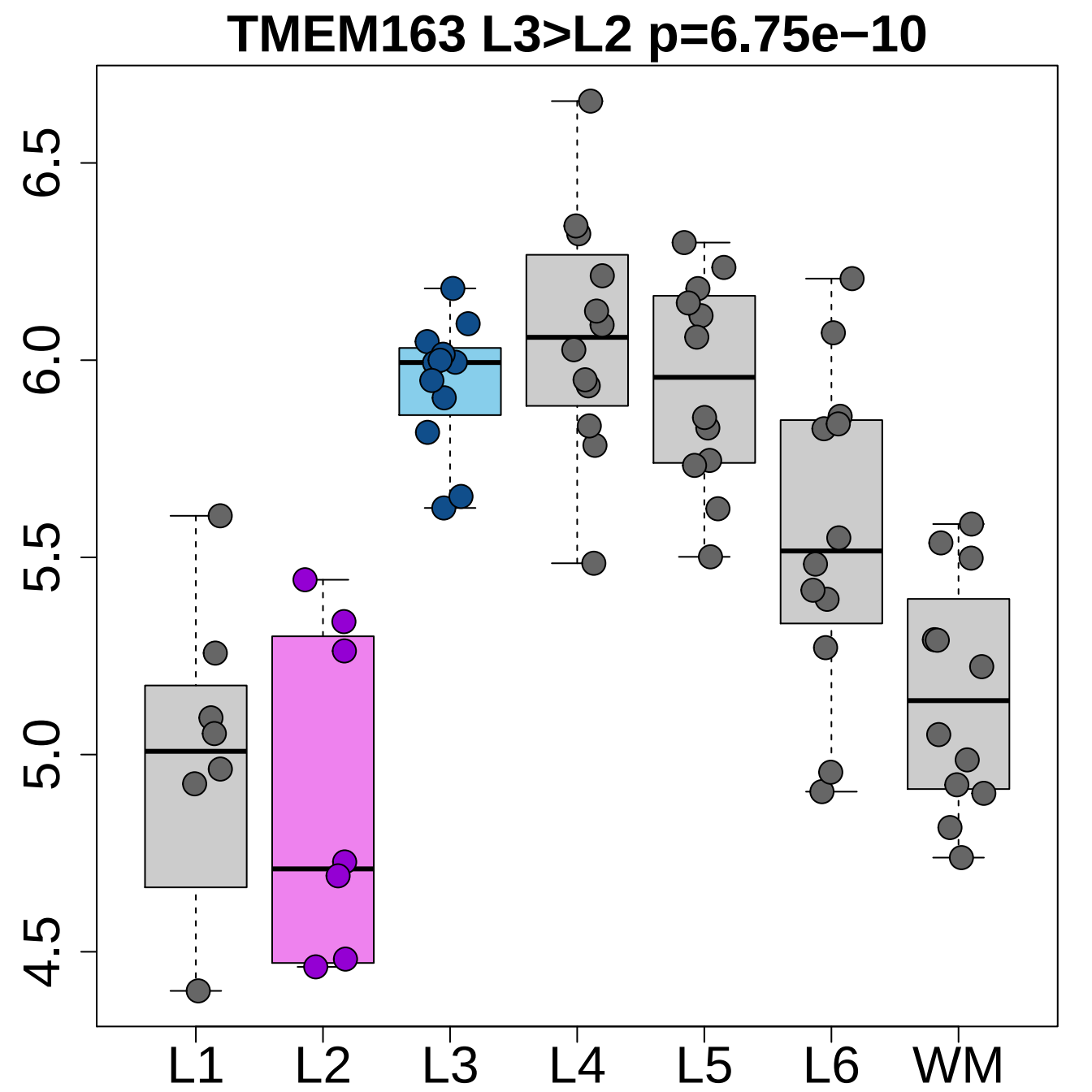
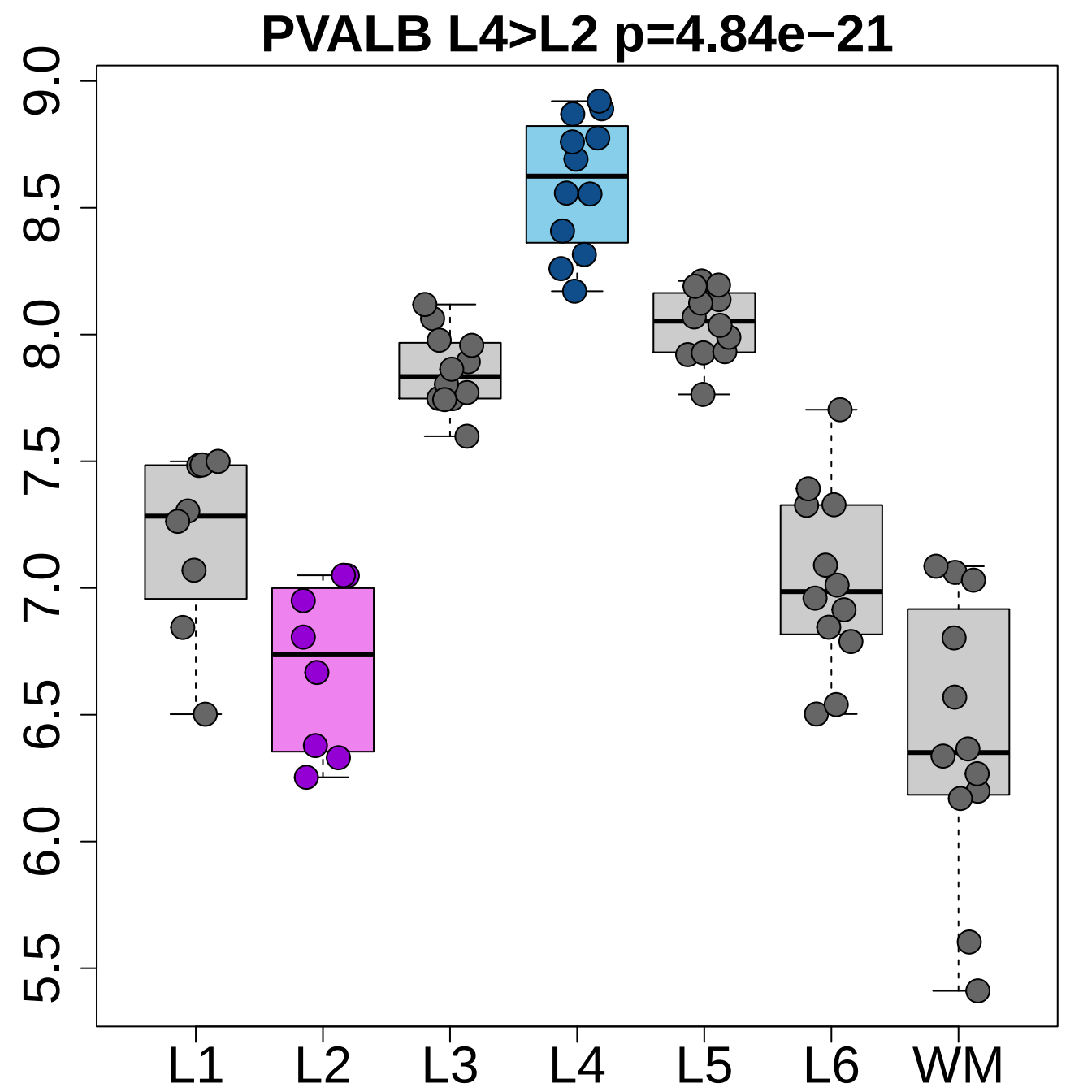
5.5
6.0
6.5
7.0
7.5
L1
L2
L3
L4
L5
L6
WM

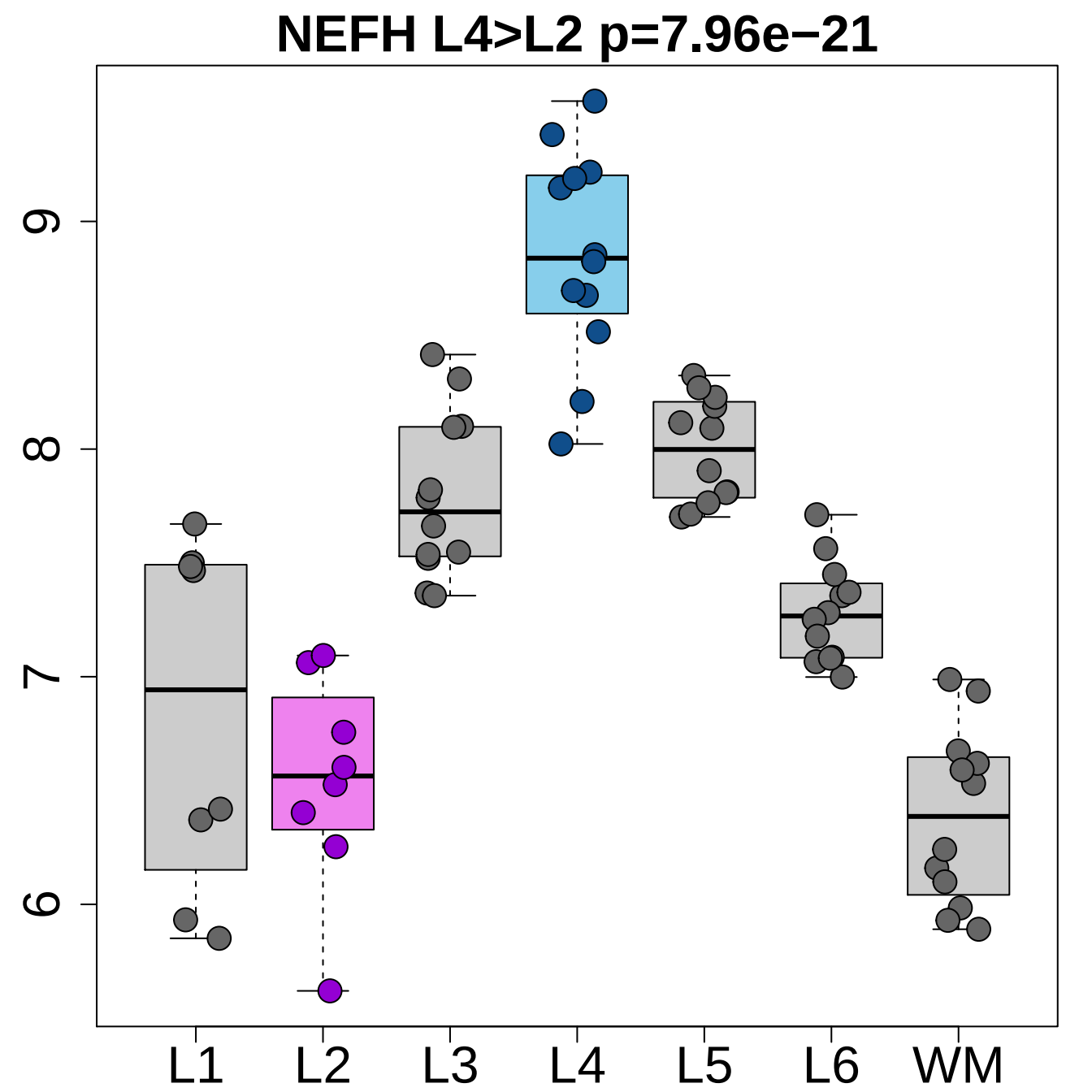

TUBA1B L3>L2 p=2.55e−10
12.4
12.0
11.6
11.2
L1
L2
L3
L4
L5
L6
WM

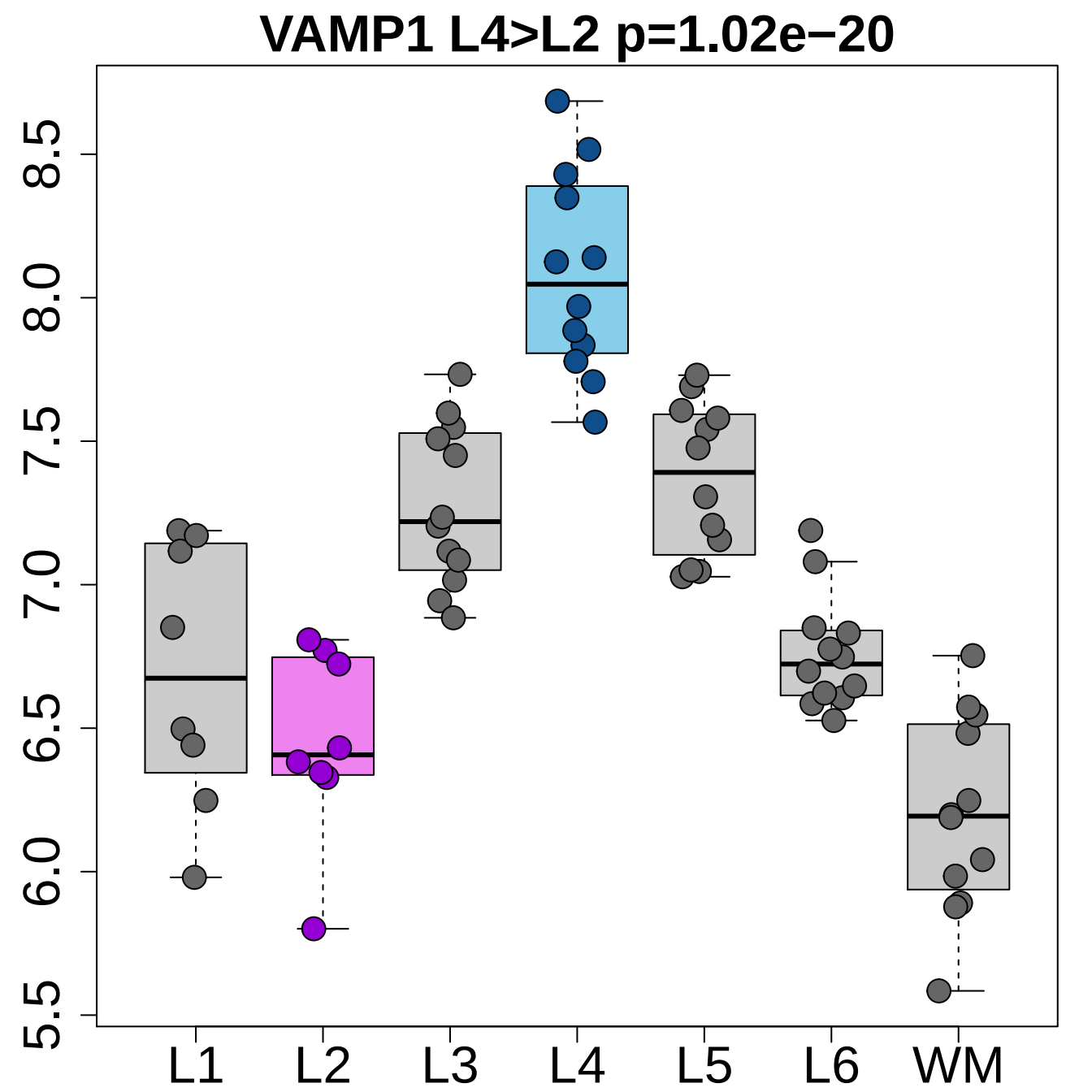

NEFL L3>L2 p=3.16e−10
11.5
11.0
10.5
10.0
9.5
9.0
L1
L2
L3
L4
L5
L6
WM

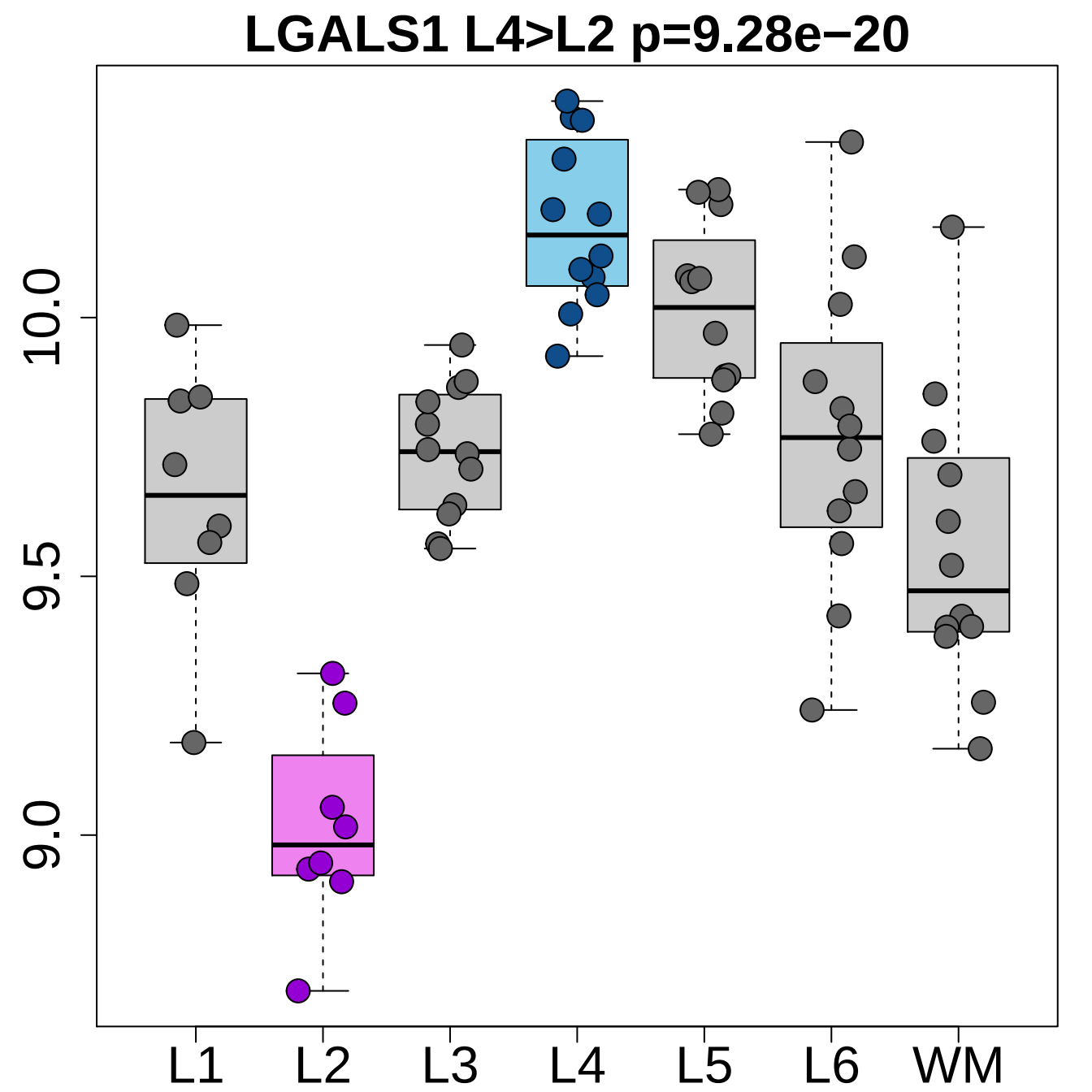

NEFH L3>L2 p=4.00e−10
9
8
7
6
L1
L2
L3
L4
L5
L6
WM

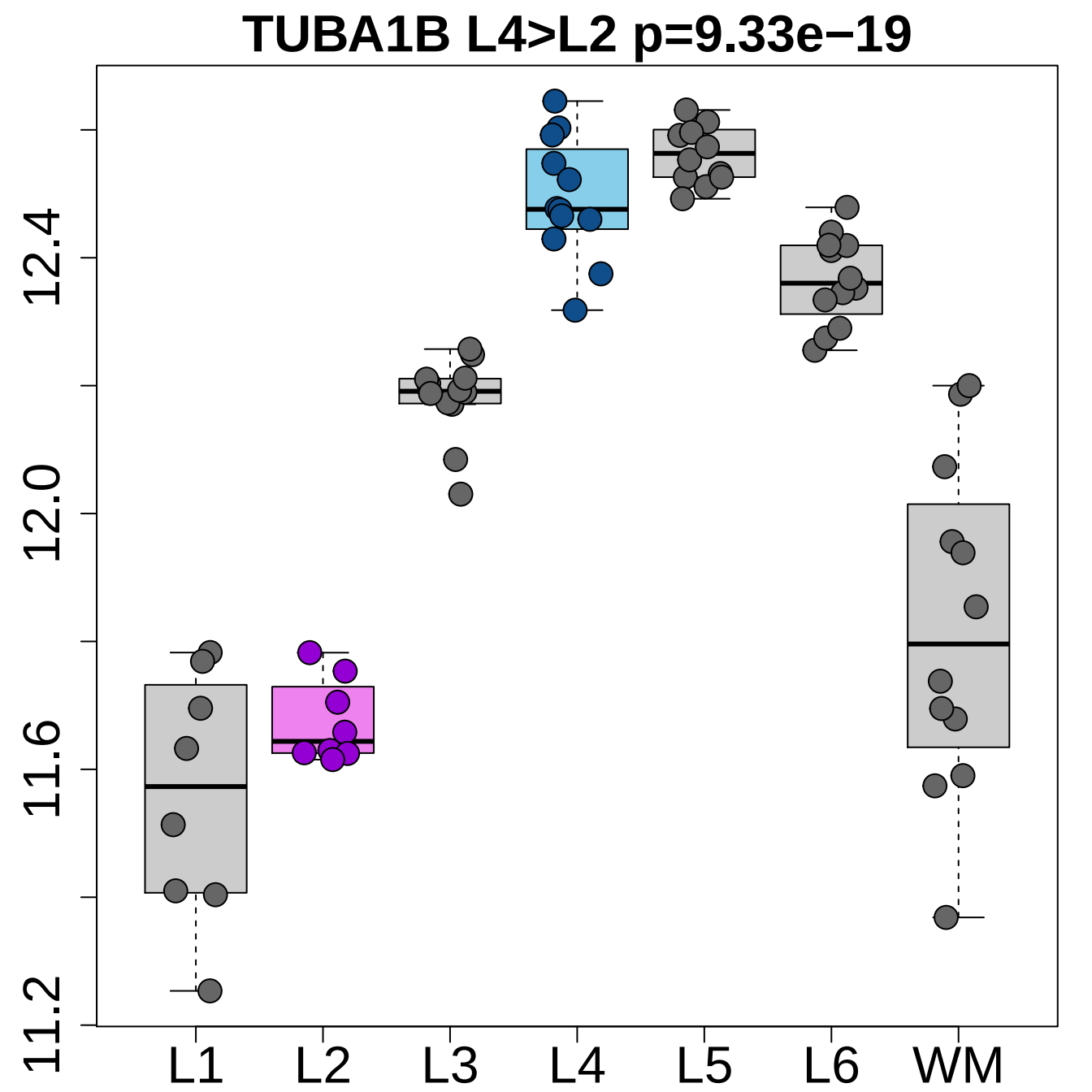

TMEM163 L3>L2 p=6.75e−10
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM

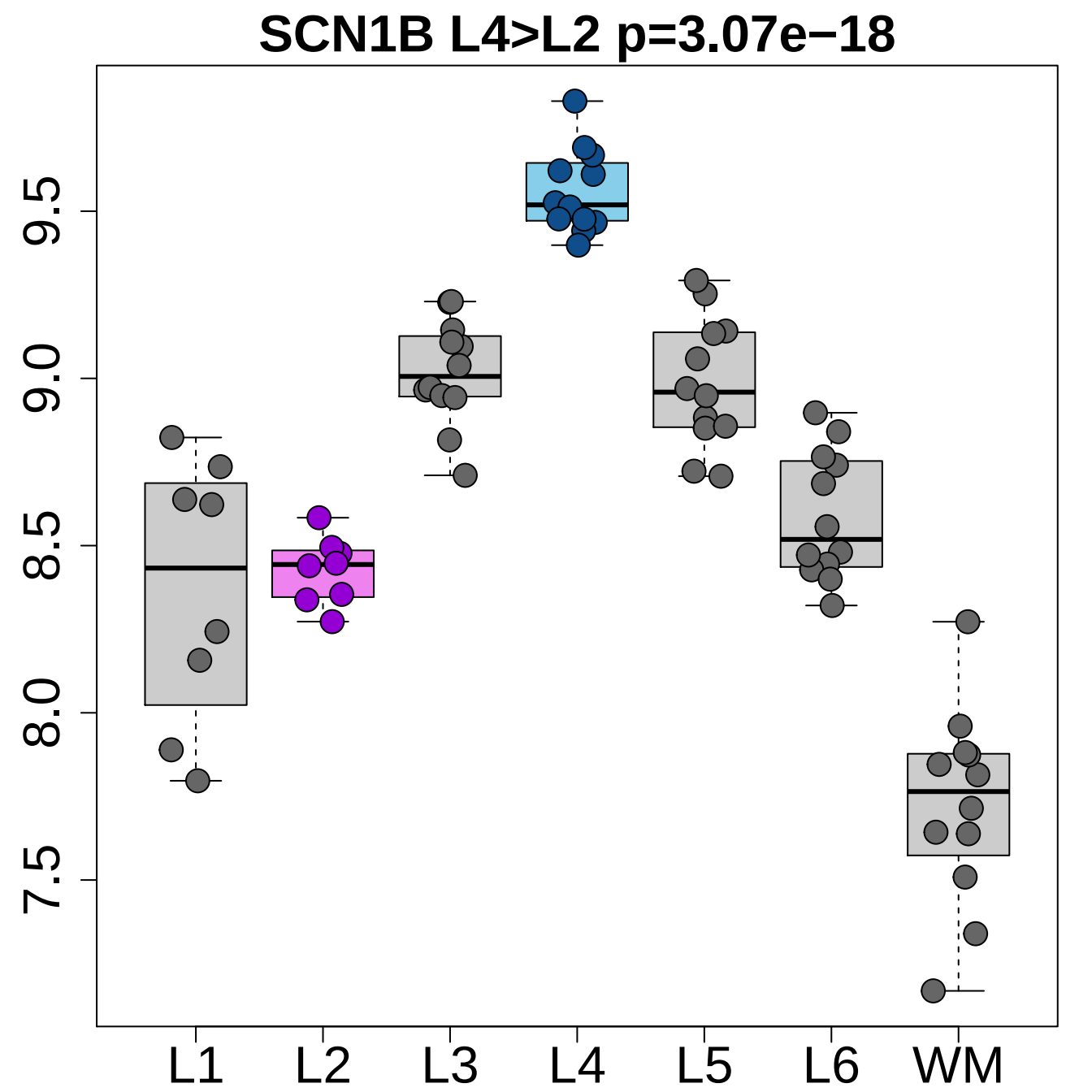

PVALB L4>L2 p=4.84e−21
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


NEFH L4>L2 p=7.96e−21
9
8
7
6
L1
L2
L3
L4
L5
L6
WM


VAMP1 L4>L2 p=1.02e−20
8.5
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


LGALS1 L4>L2 p=9.28e−20
10.0
9.5
9.0
L1
L2
L3
L4
L5
L6
WM


TUBA1B L4>L2 p=9.33e−19
12.4
12.0
11.6
11.2
L1
L2
L3
L4
L5
L6
WM


SCN1B L4>L2 p=3.07e−18
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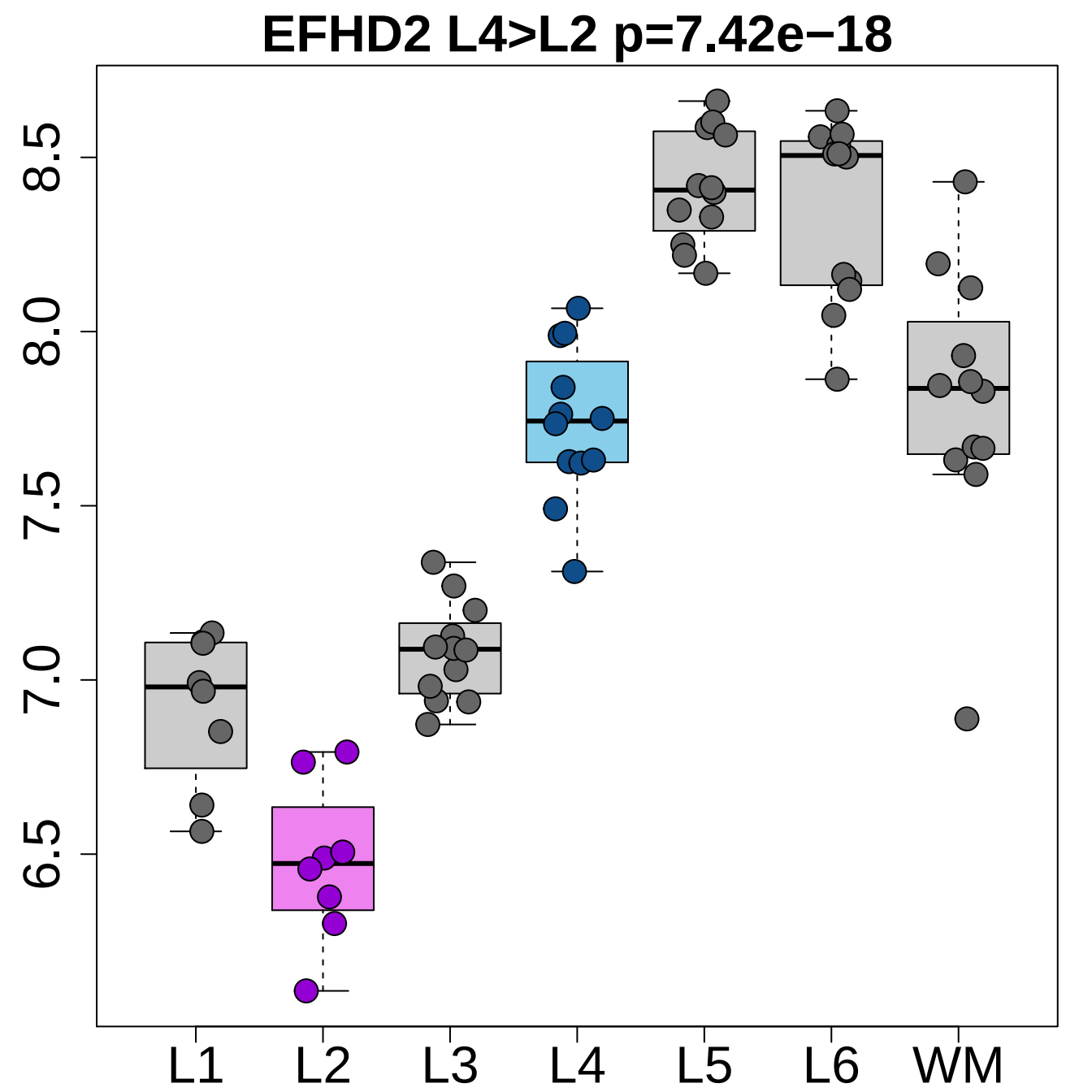
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


EFHD2 L4>L2 p=7.42e−18
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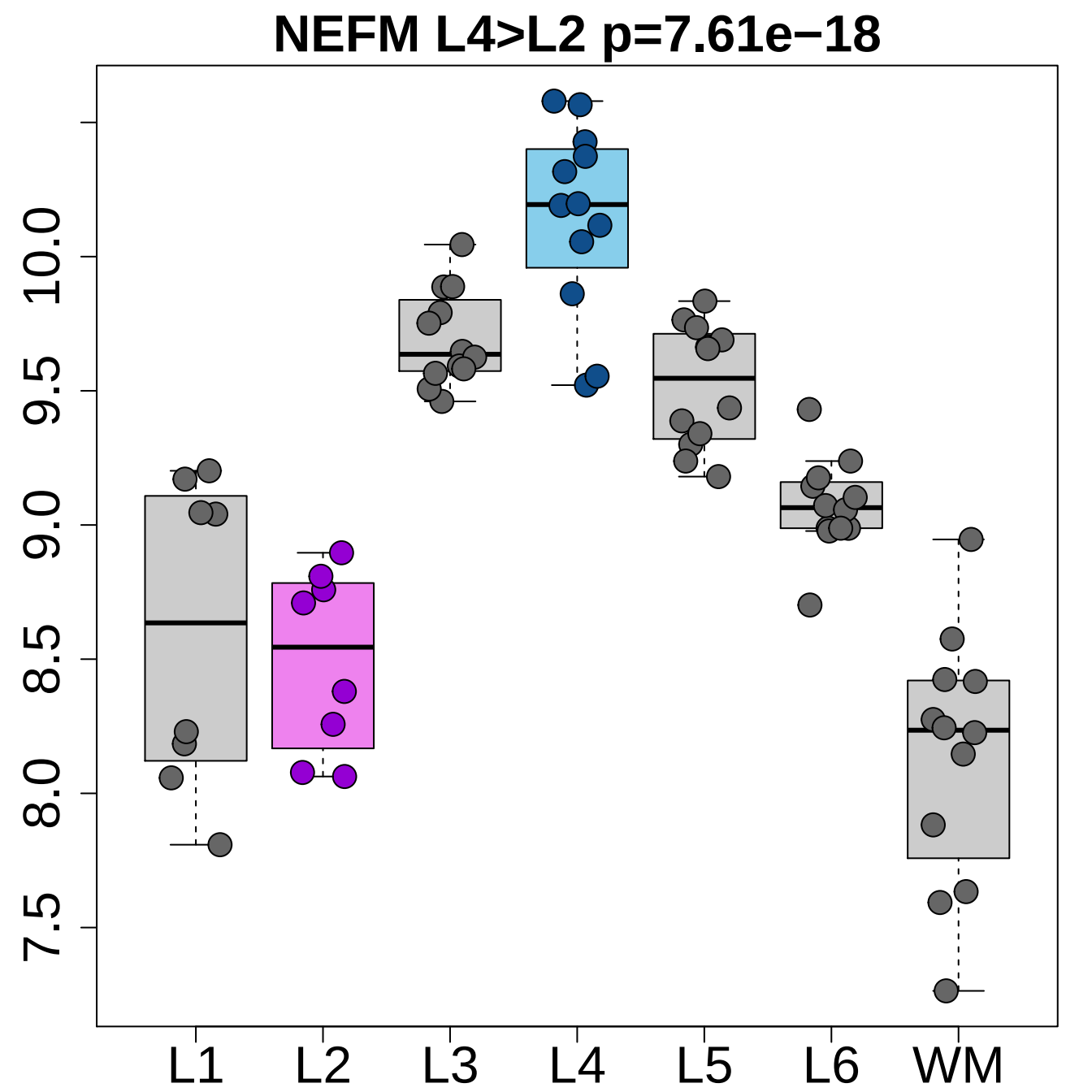
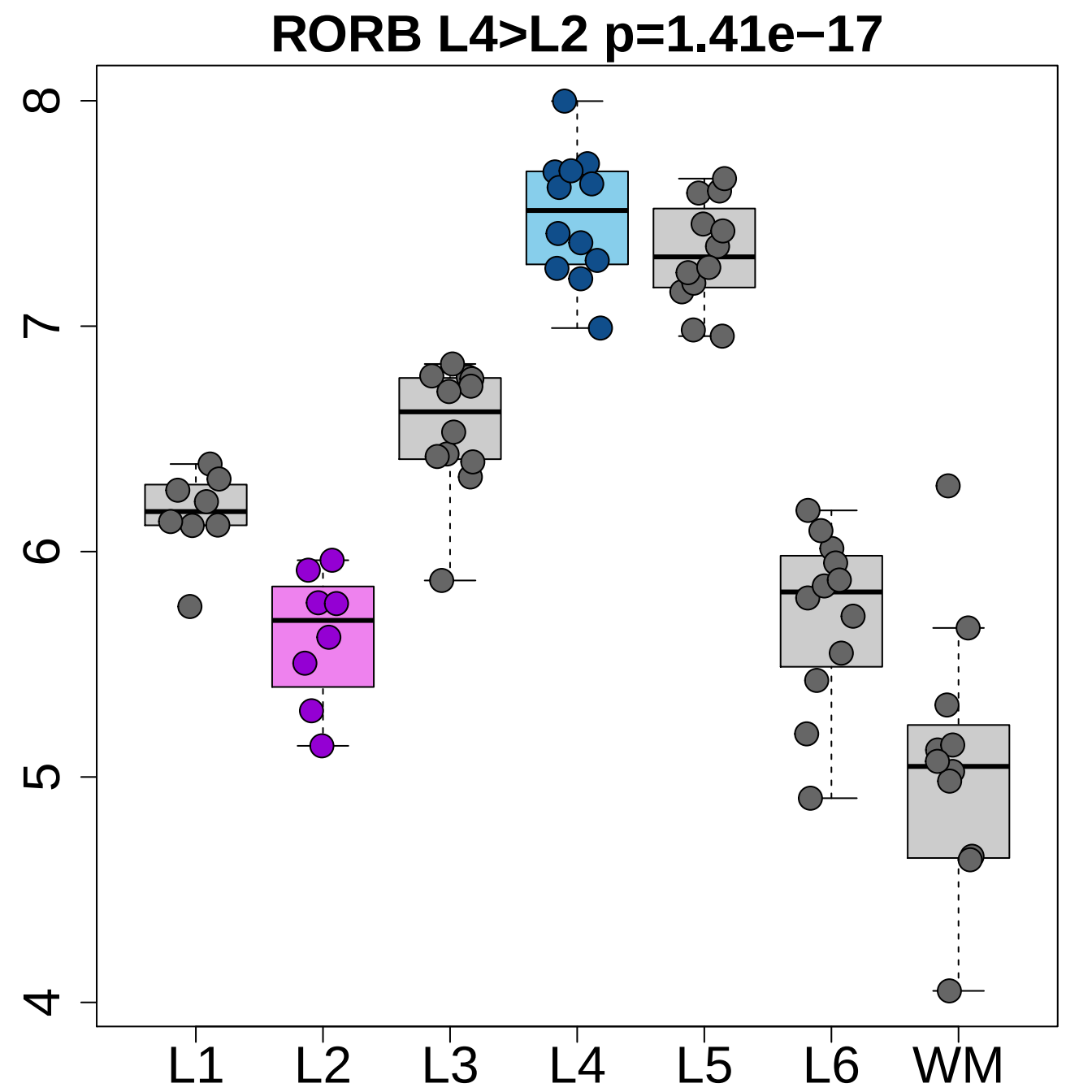
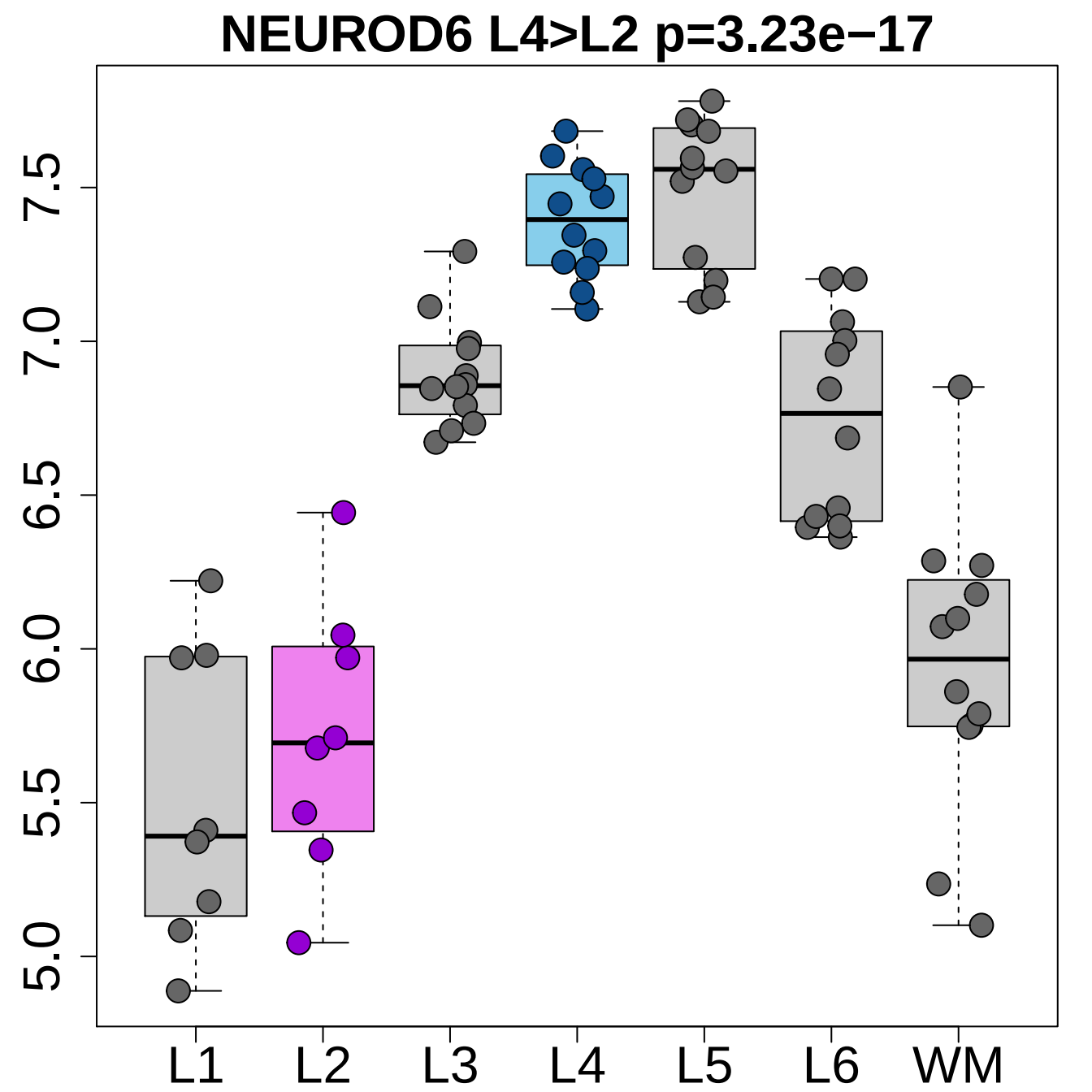
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


NEFM L4>L2 p=7.61e−18
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


RORB L4>L2 p=1.41e−17
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


NEUROD6 L4>L2 p=3.23e−17
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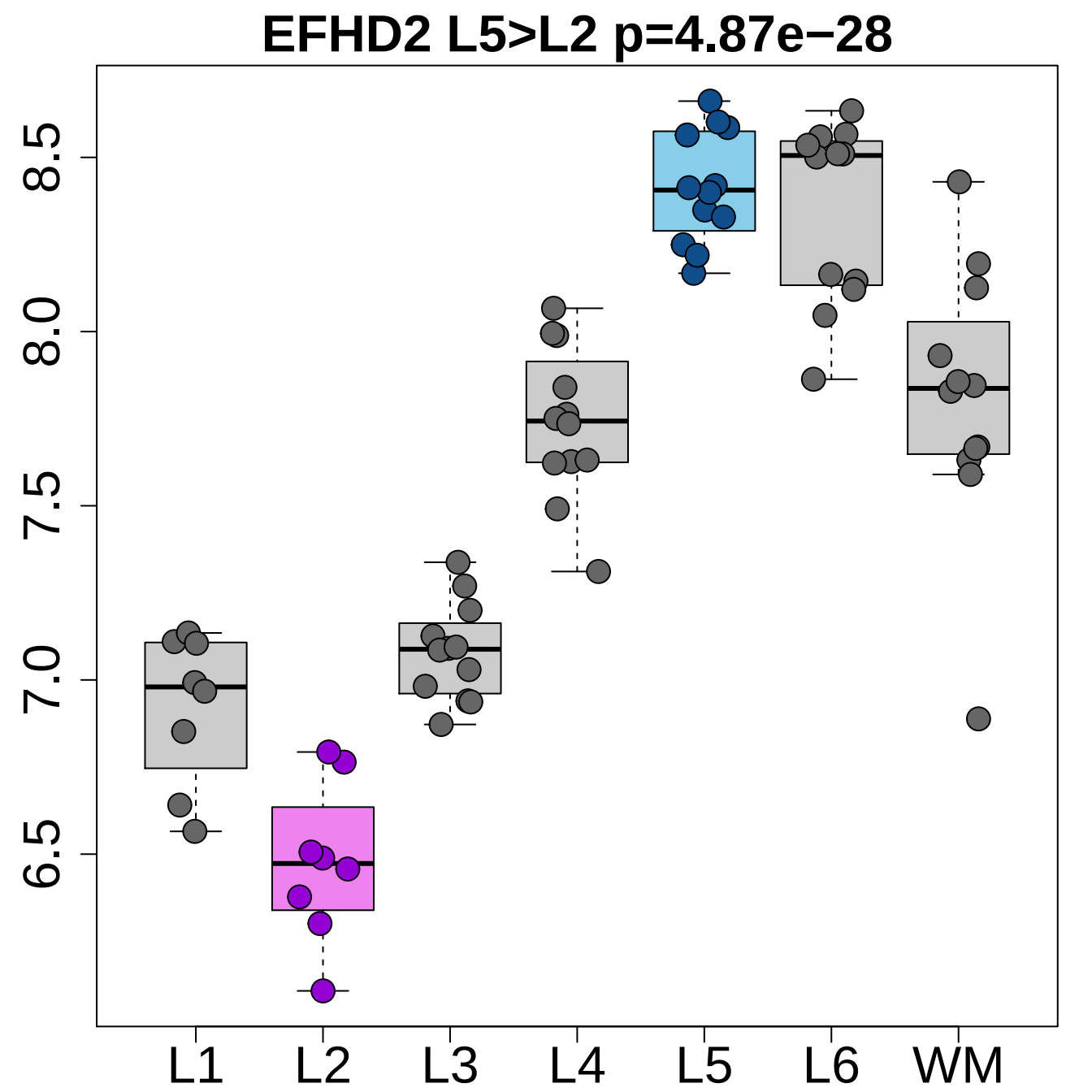
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


EFHD2 L5>L2 p=4.87e−28
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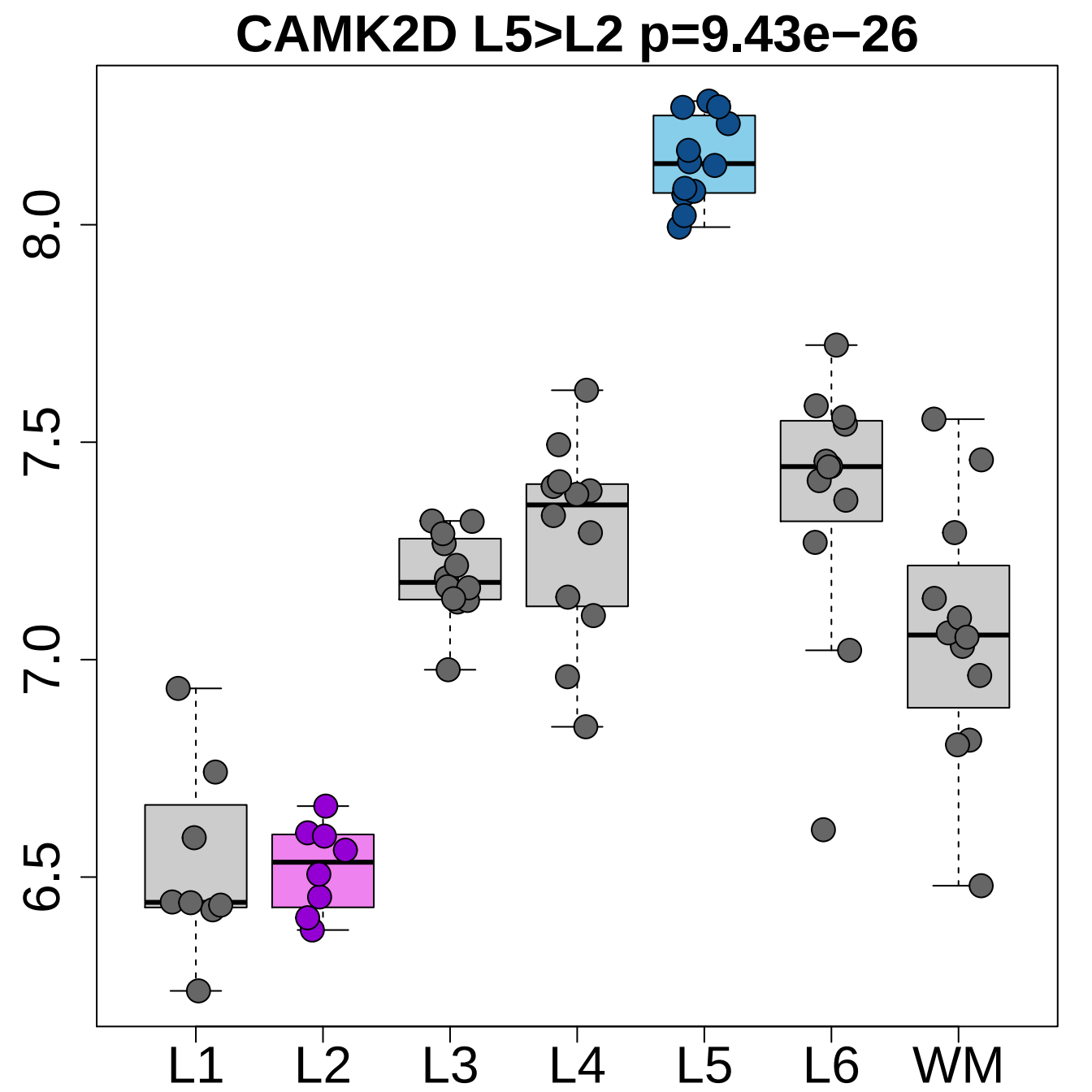
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


CAMK2D L5>L2 p=9.43e−26
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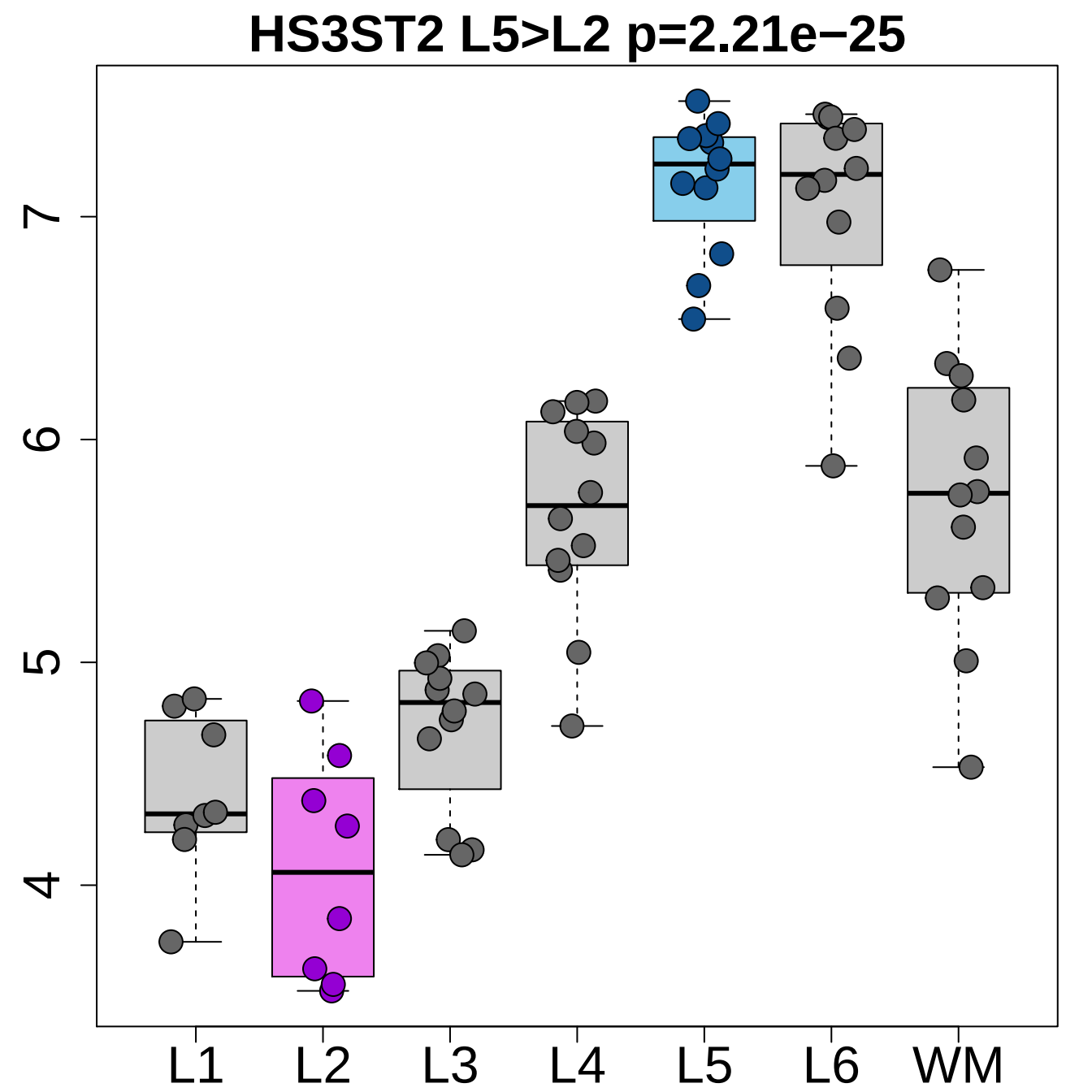
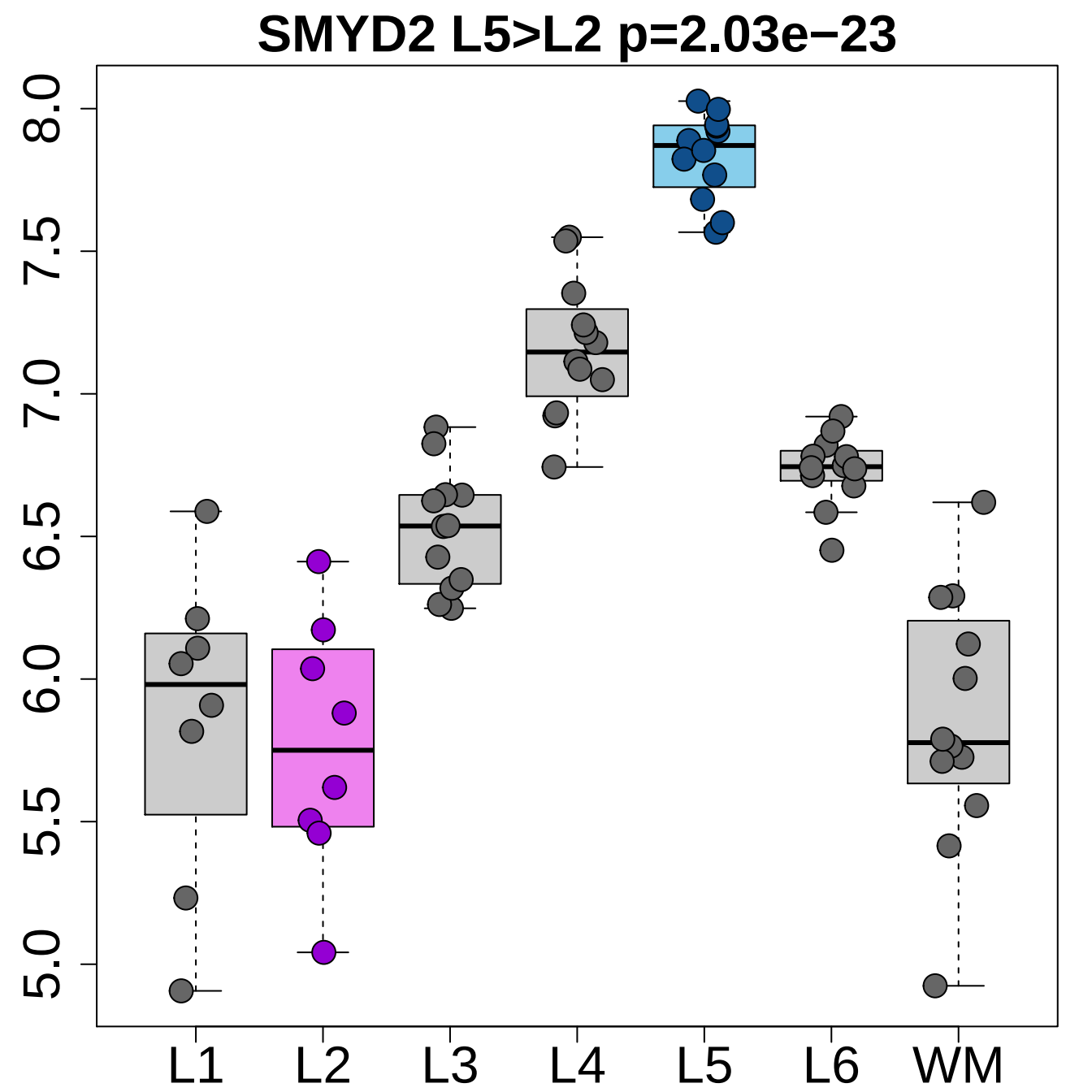
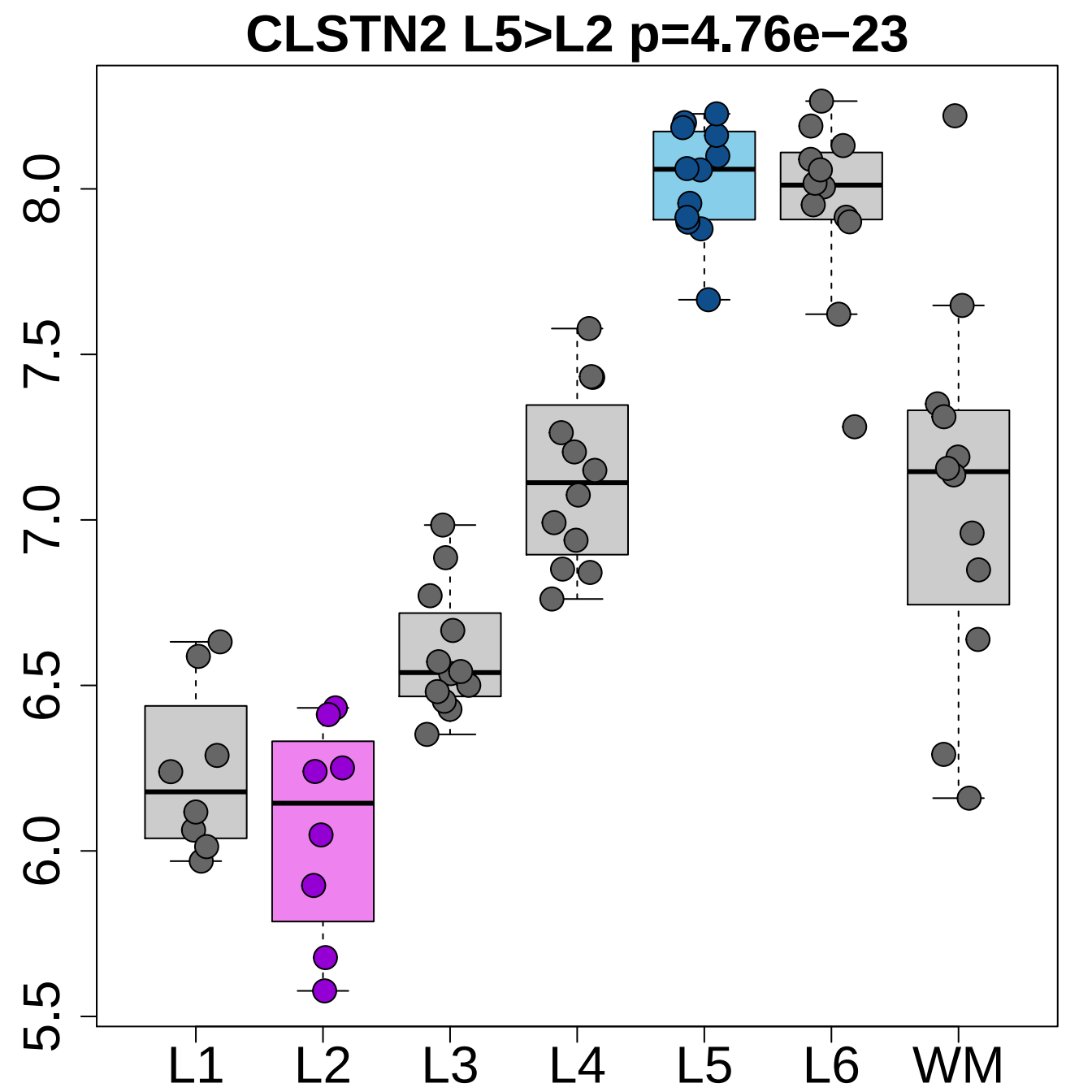
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


HS3ST2 L5>L2 p=2.21e−25
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


SMYD2 L5>L2 p=2.03e−23
8.0
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


CLSTN2 L5>L2 p=4.76e−23
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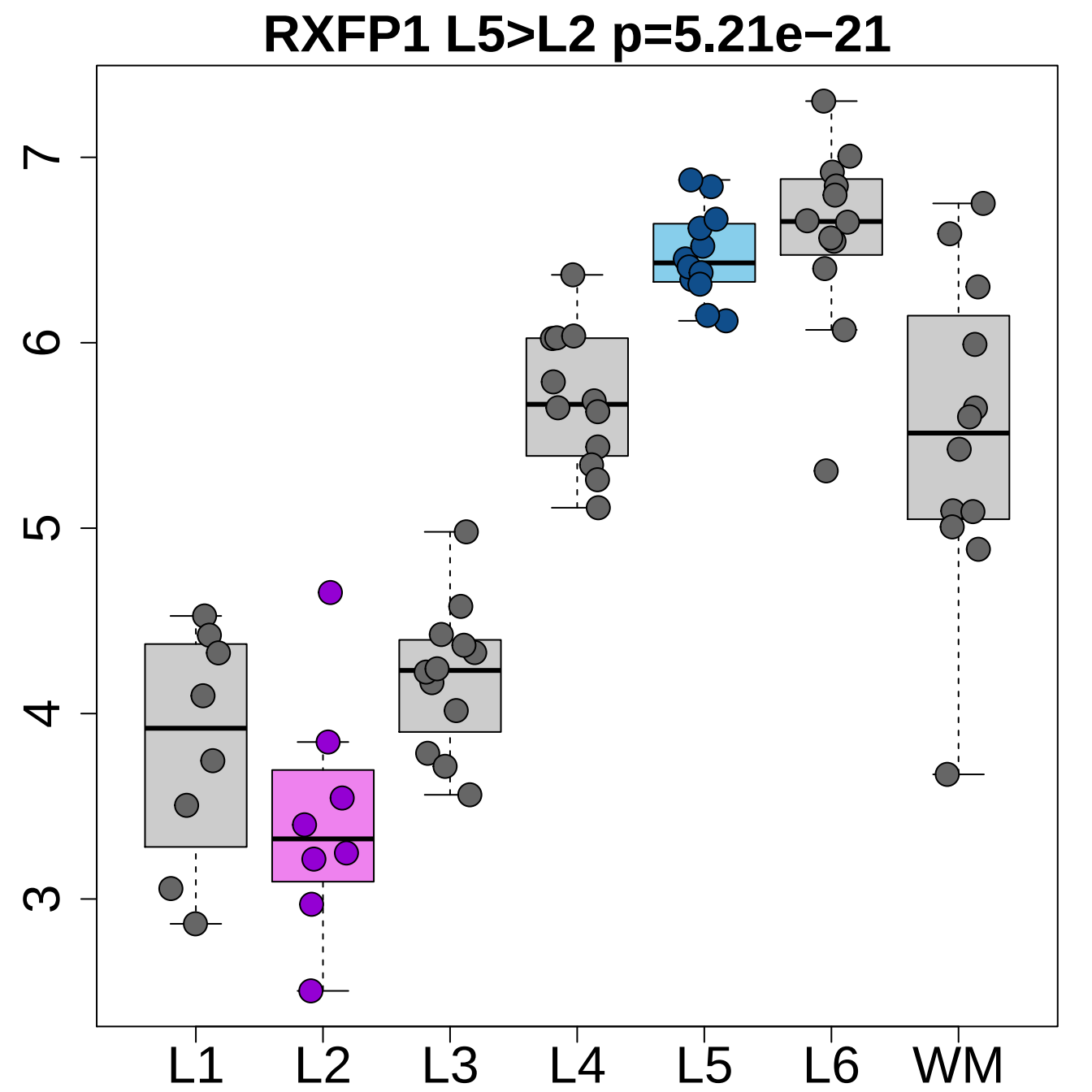
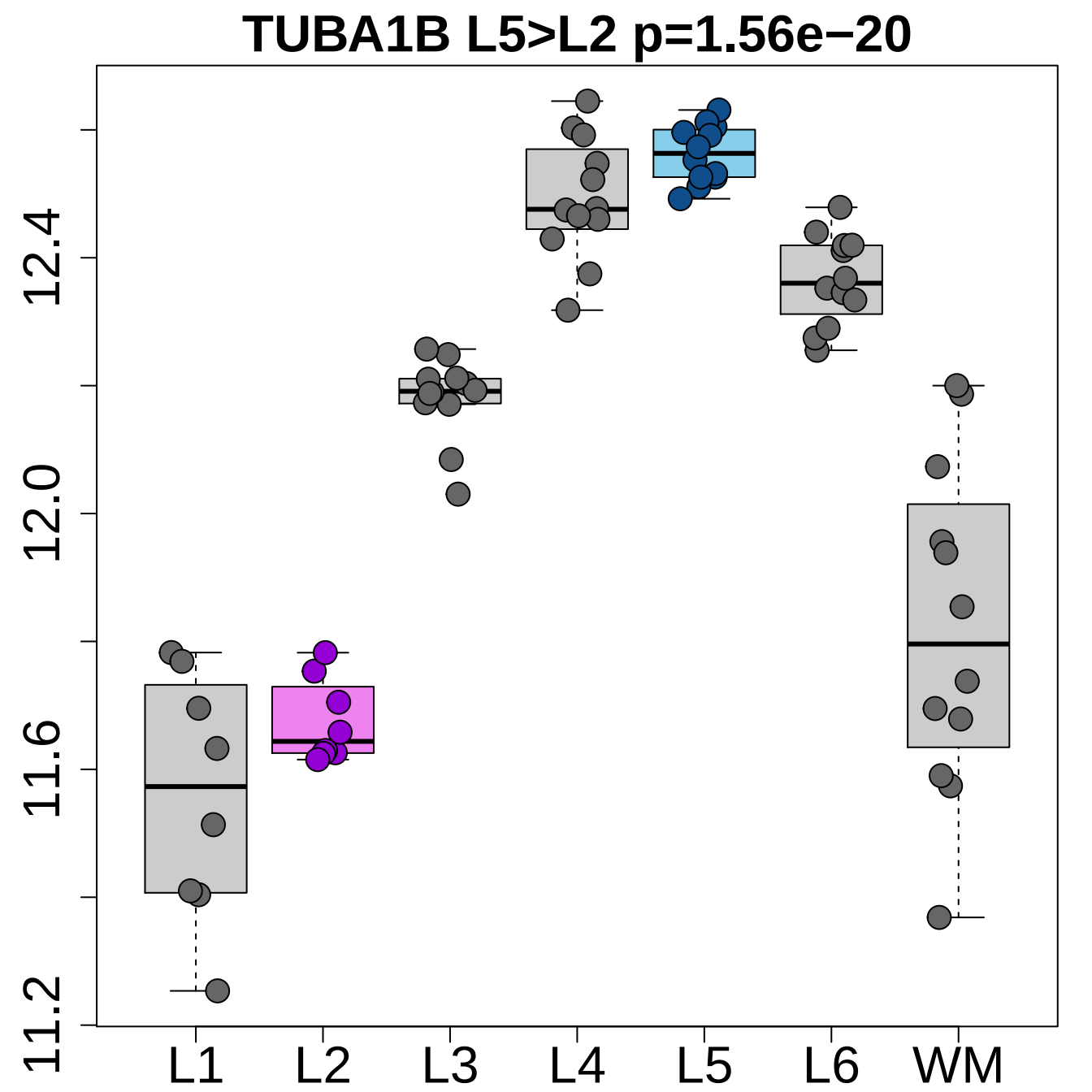
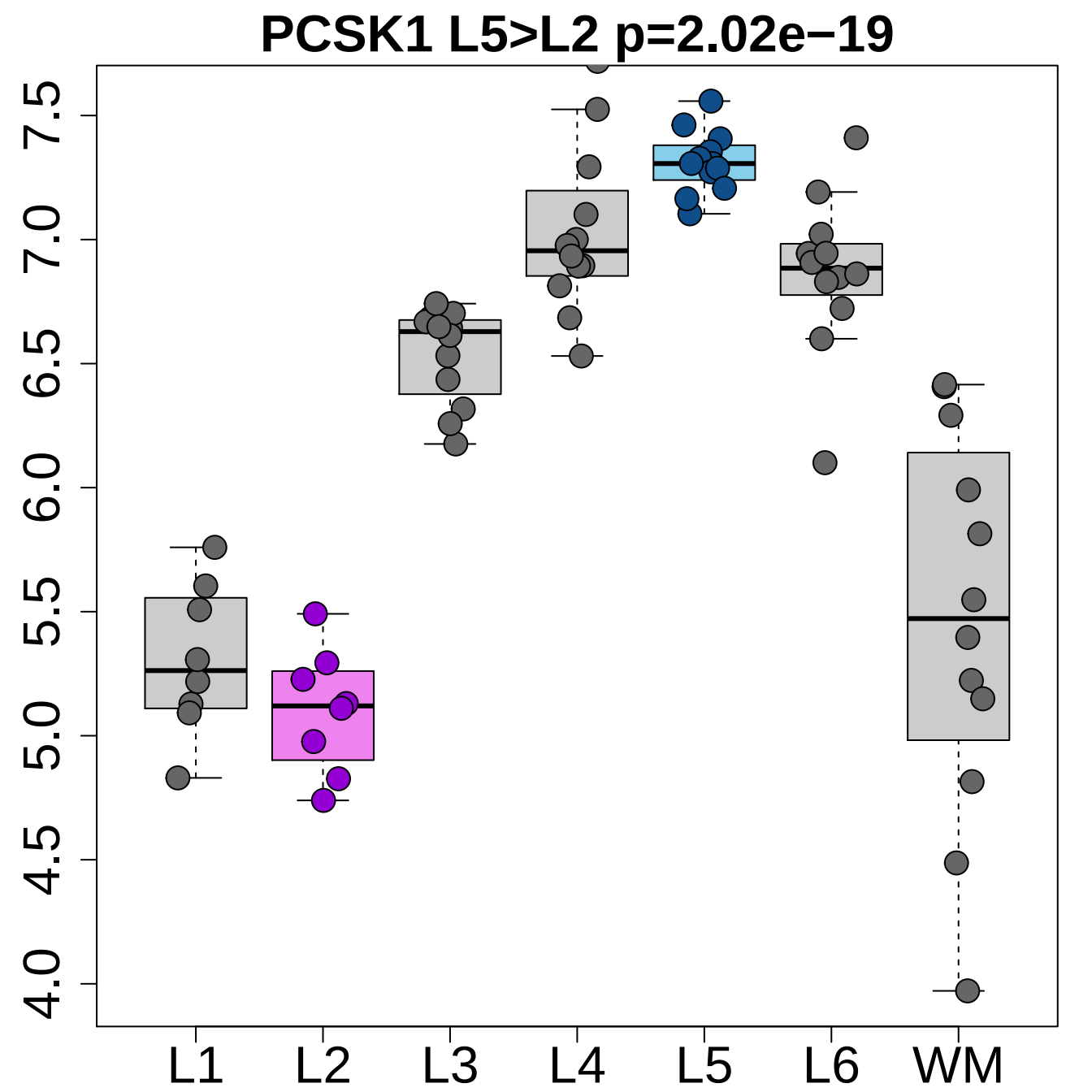
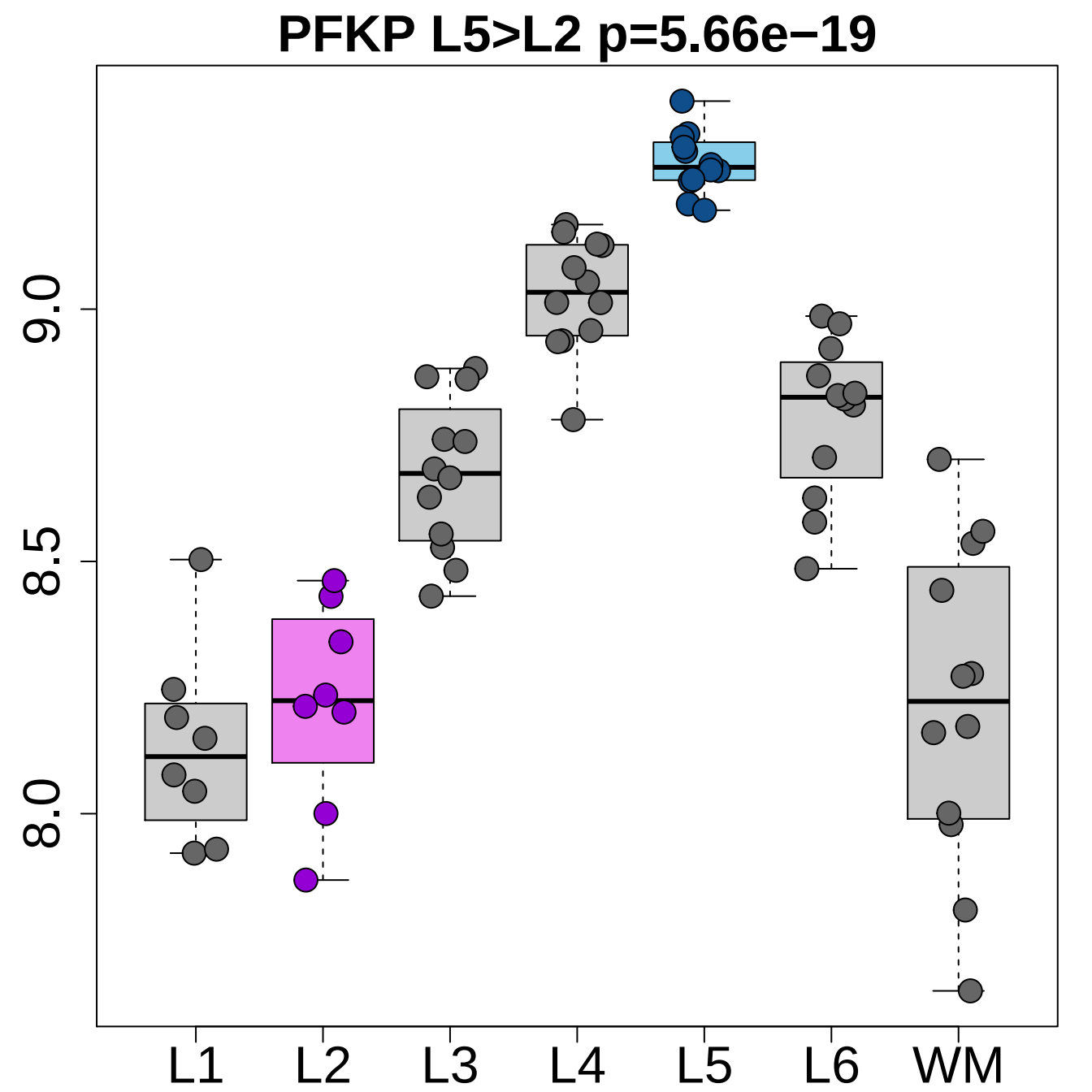
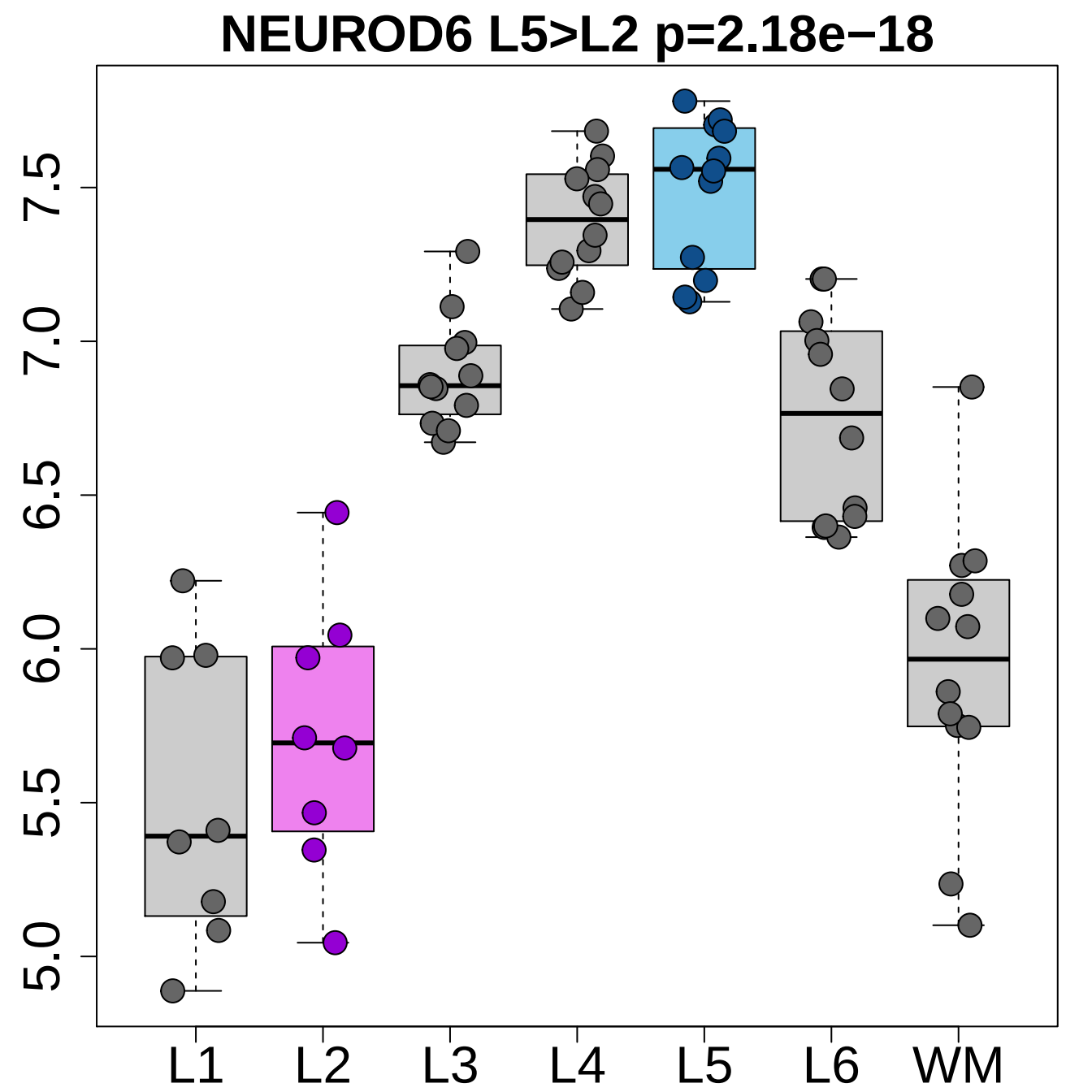
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


RXFP1 L5>L2 p=5.21e−21
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


TUBA1B L5>L2 p=1.56e−20
12.4
12.0
11.6
11.2
L1
L2
L3
L4
L5
L6
WM


PCSK1 L5>L2 p=2.02e−19
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM


PFKP L5>L2 p=5.66e−19
9.0
8.5
8.0
L1
L2
L3
L4
L5
L6
WM


NEUROD6 L5>L2 p=2.18e−18
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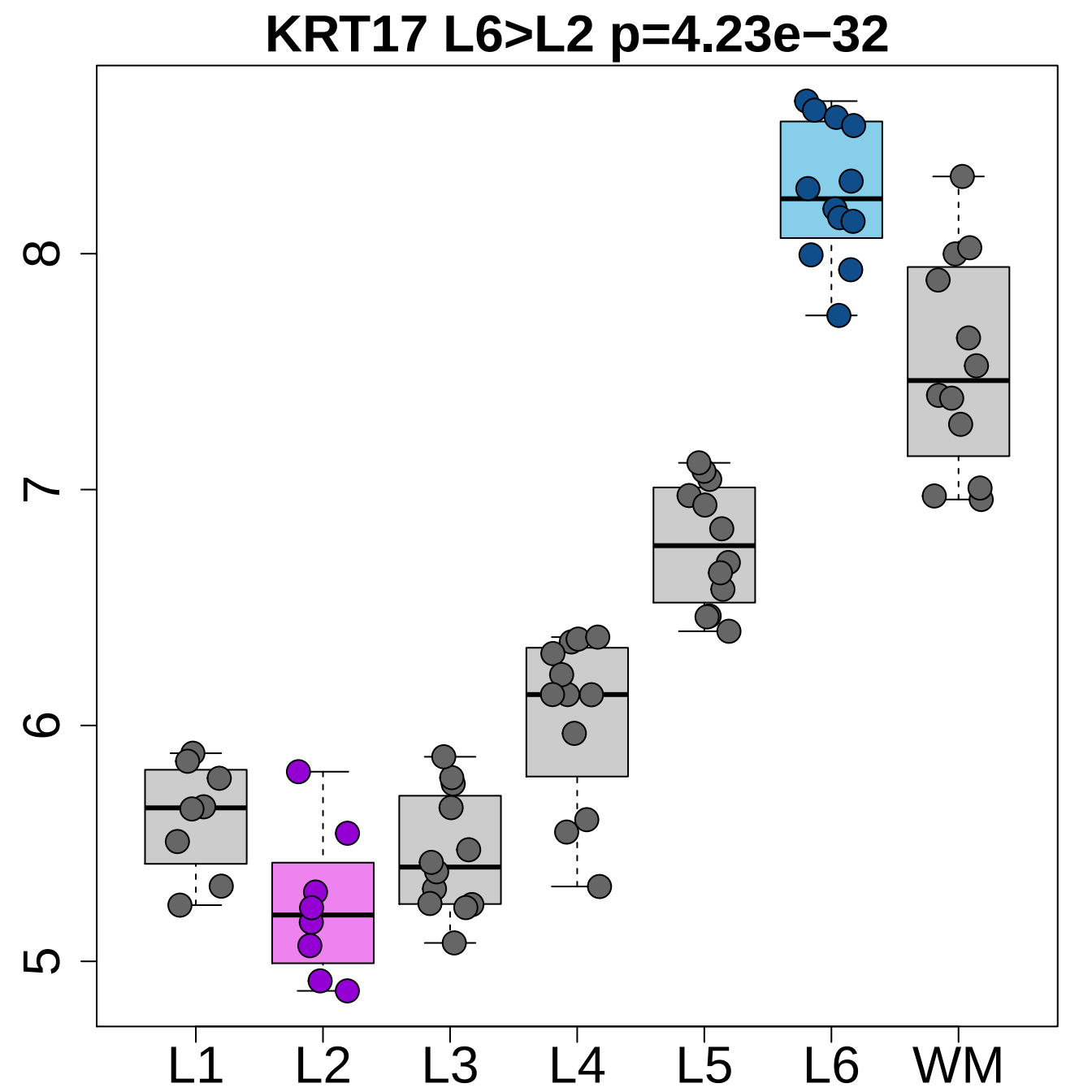
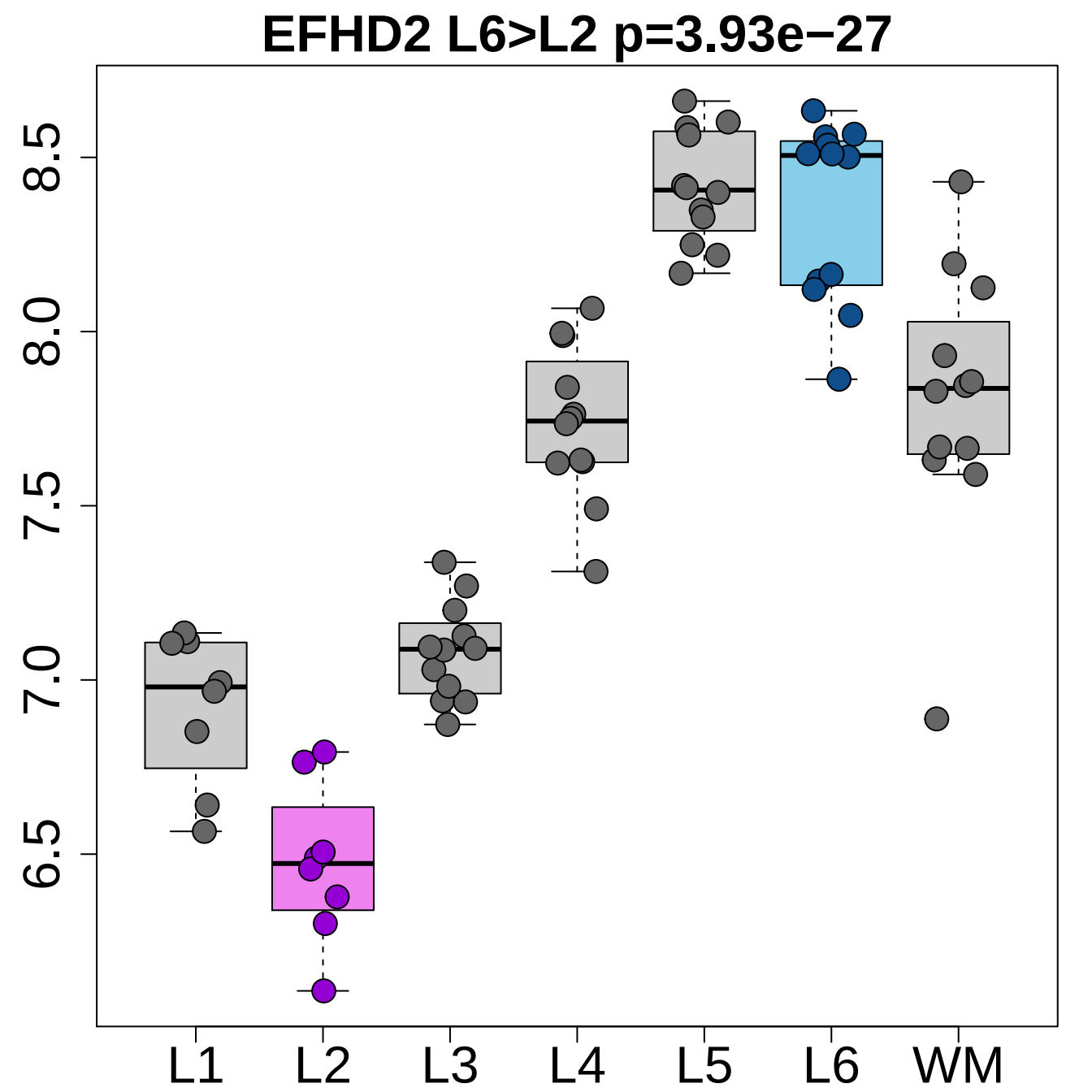
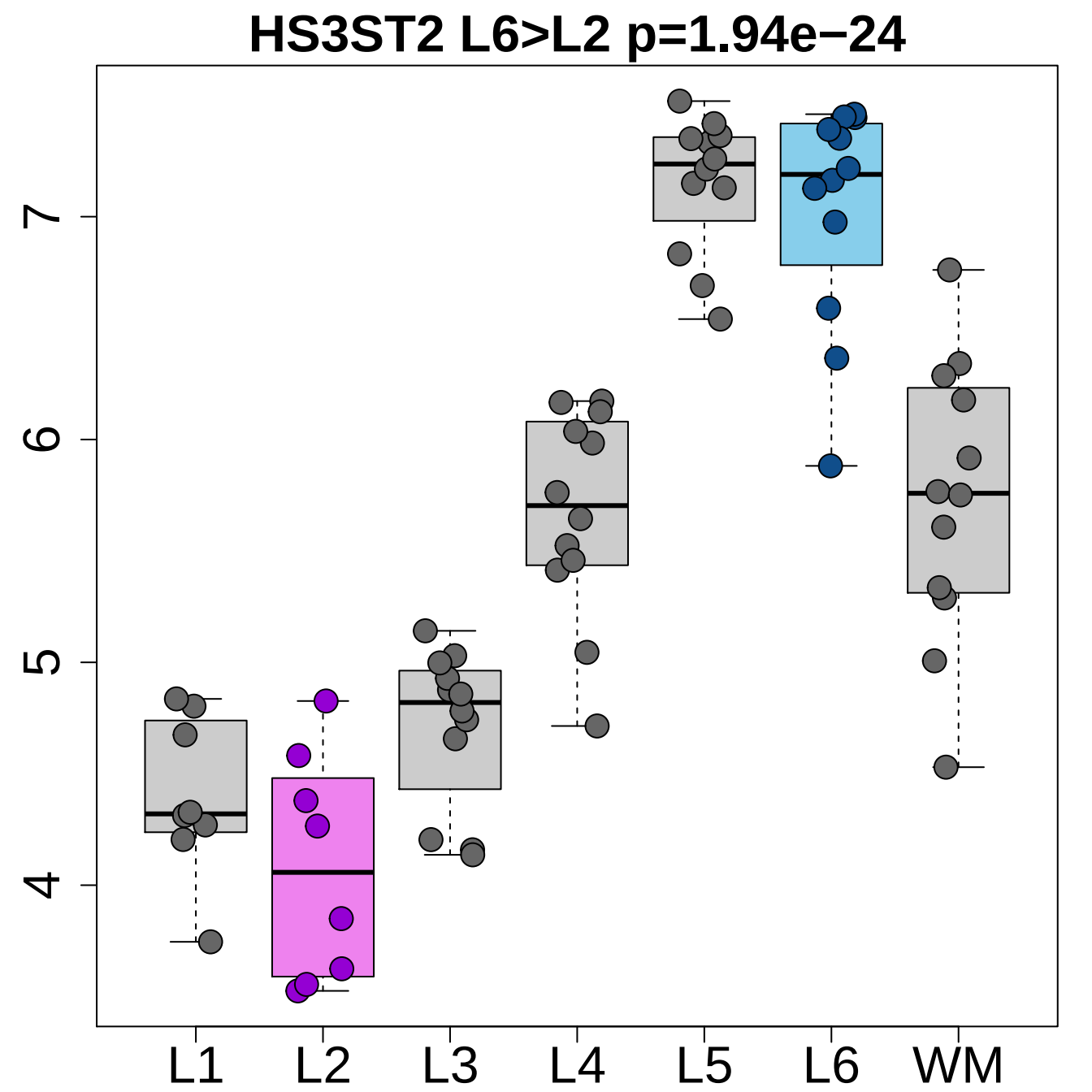
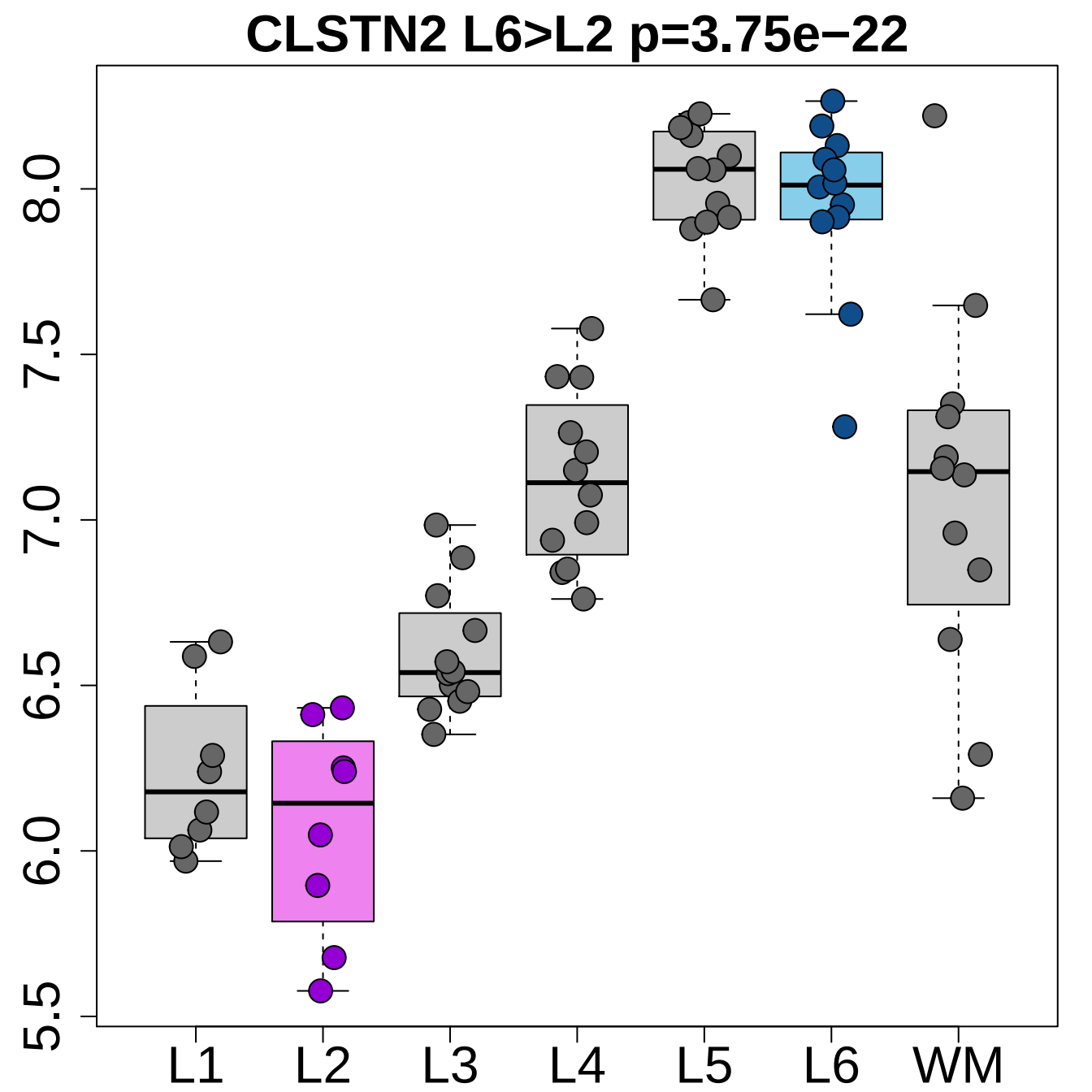
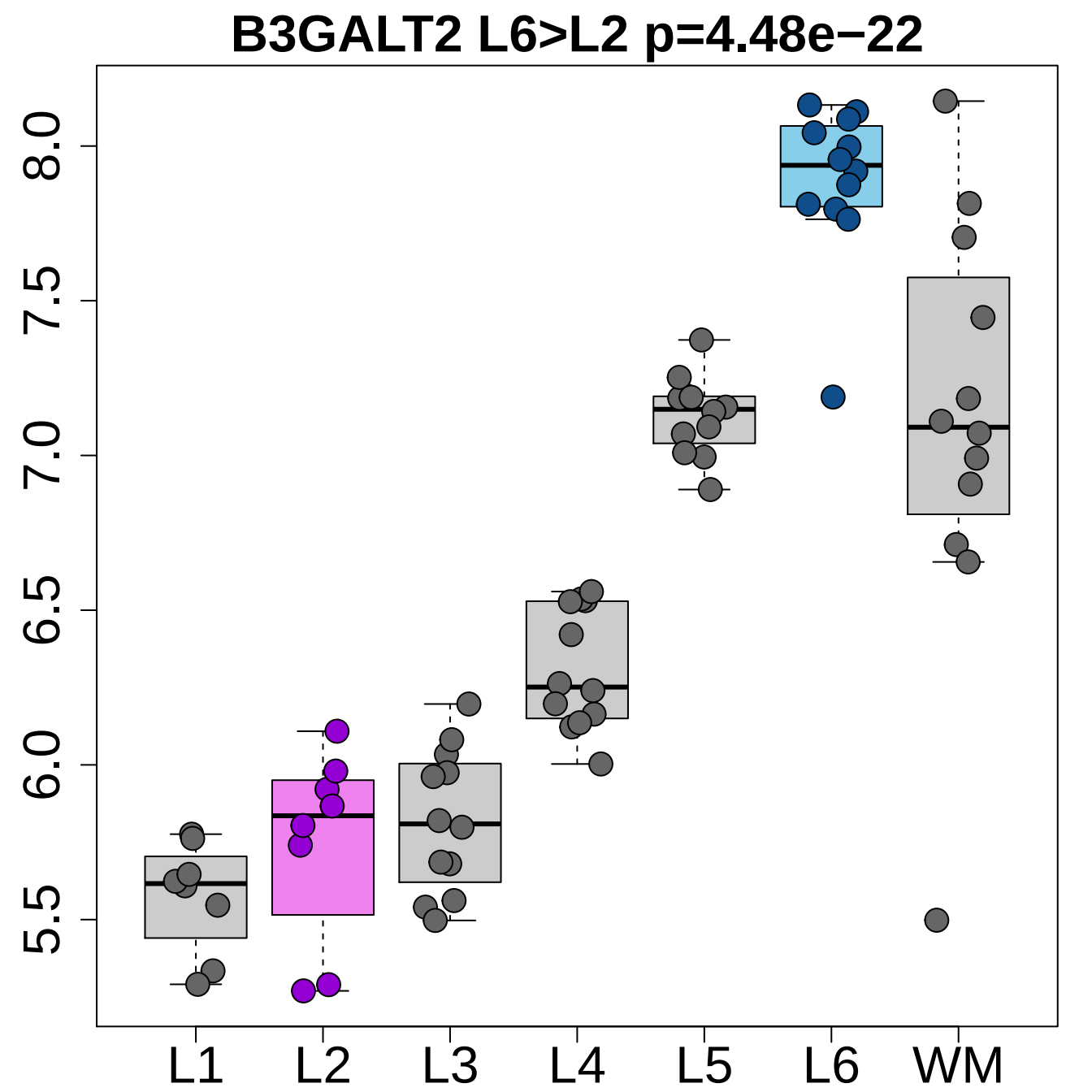
6.0
6.5
7.0
7.5
L1
L2
L3
L4
L5
L6
WM


KRT17 L6>L2 p=4.23e−32
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


EFHD2 L6>L2 p=3.93e−27
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


HS3ST2 L6>L2 p=1.94e−24
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


CLSTN2 L6>L2 p=3.75e−22
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


B3GALT2 L6>L2 p=4.48e−22
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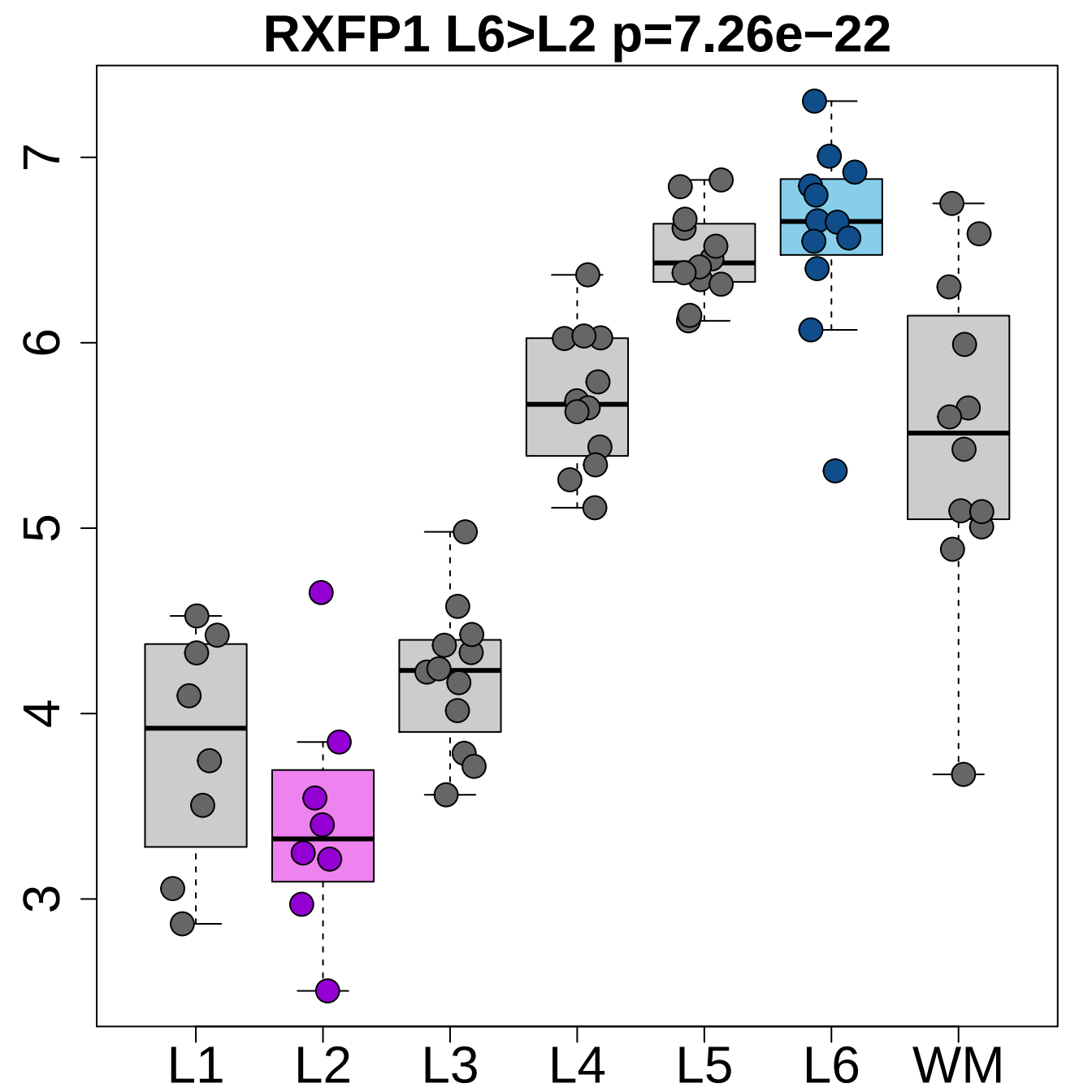
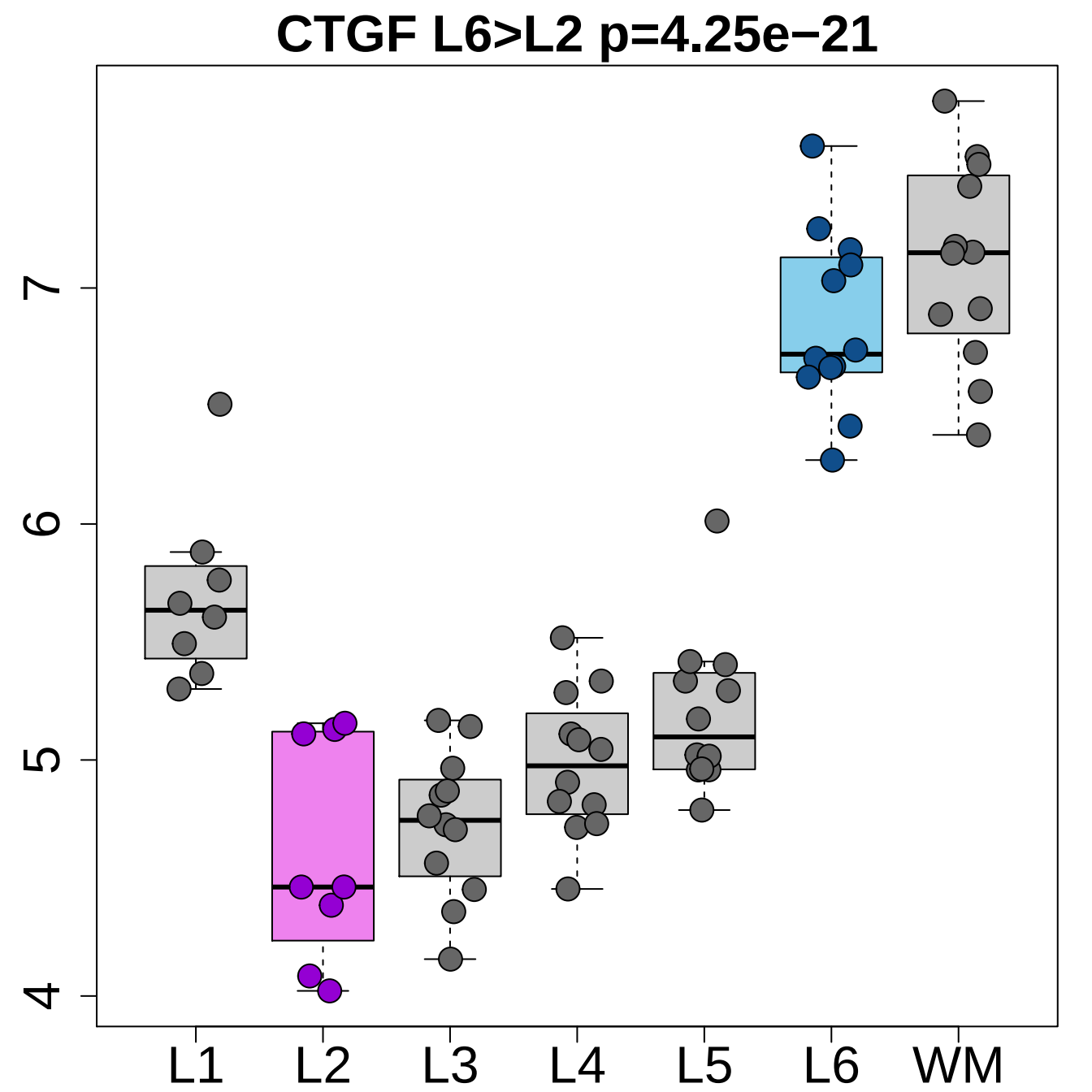
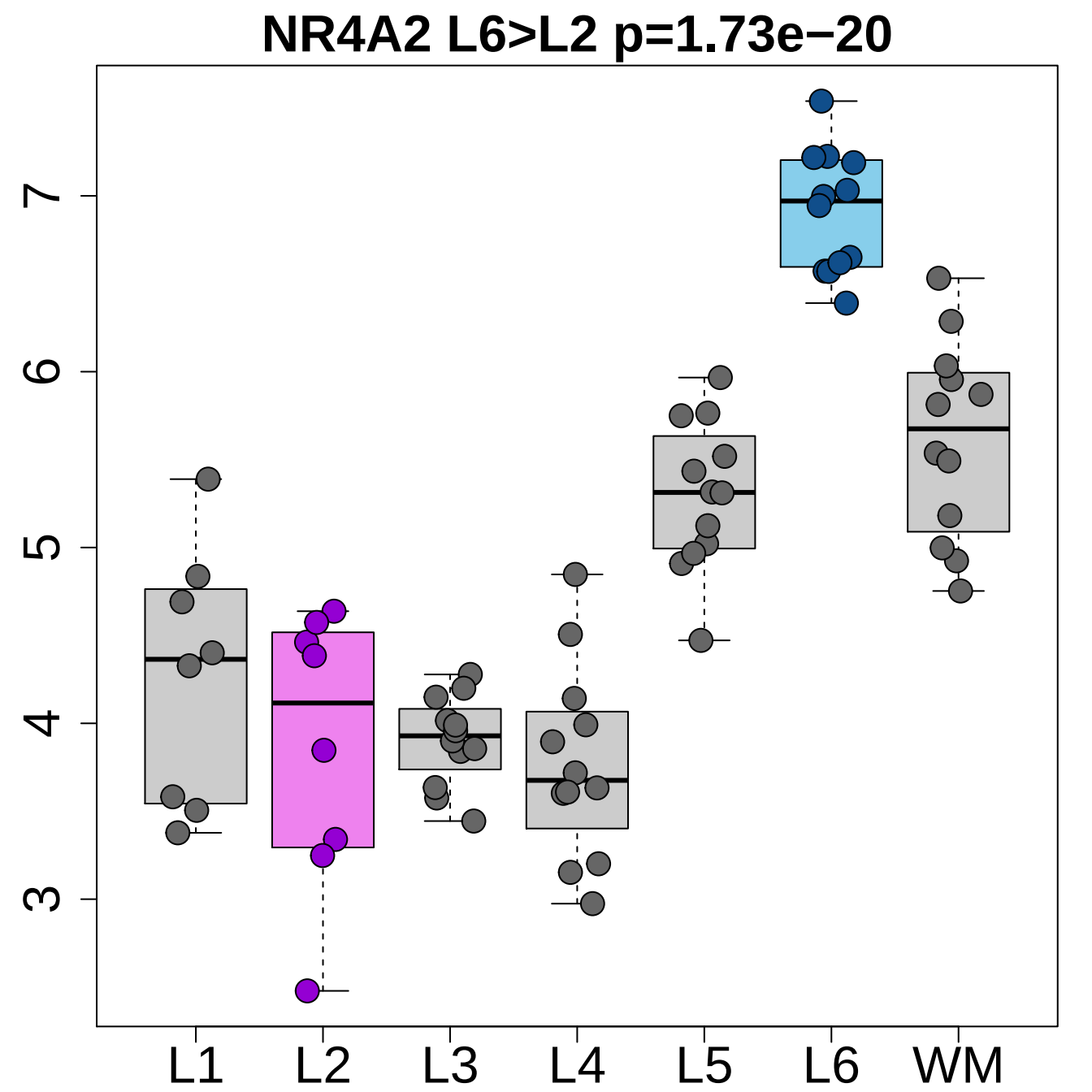
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


RXFP1 L6>L2 p=7.26e−22
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


CTGF L6>L2 p=4.25e−21
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


NR4A2 L6>L2 p=1.73e−20
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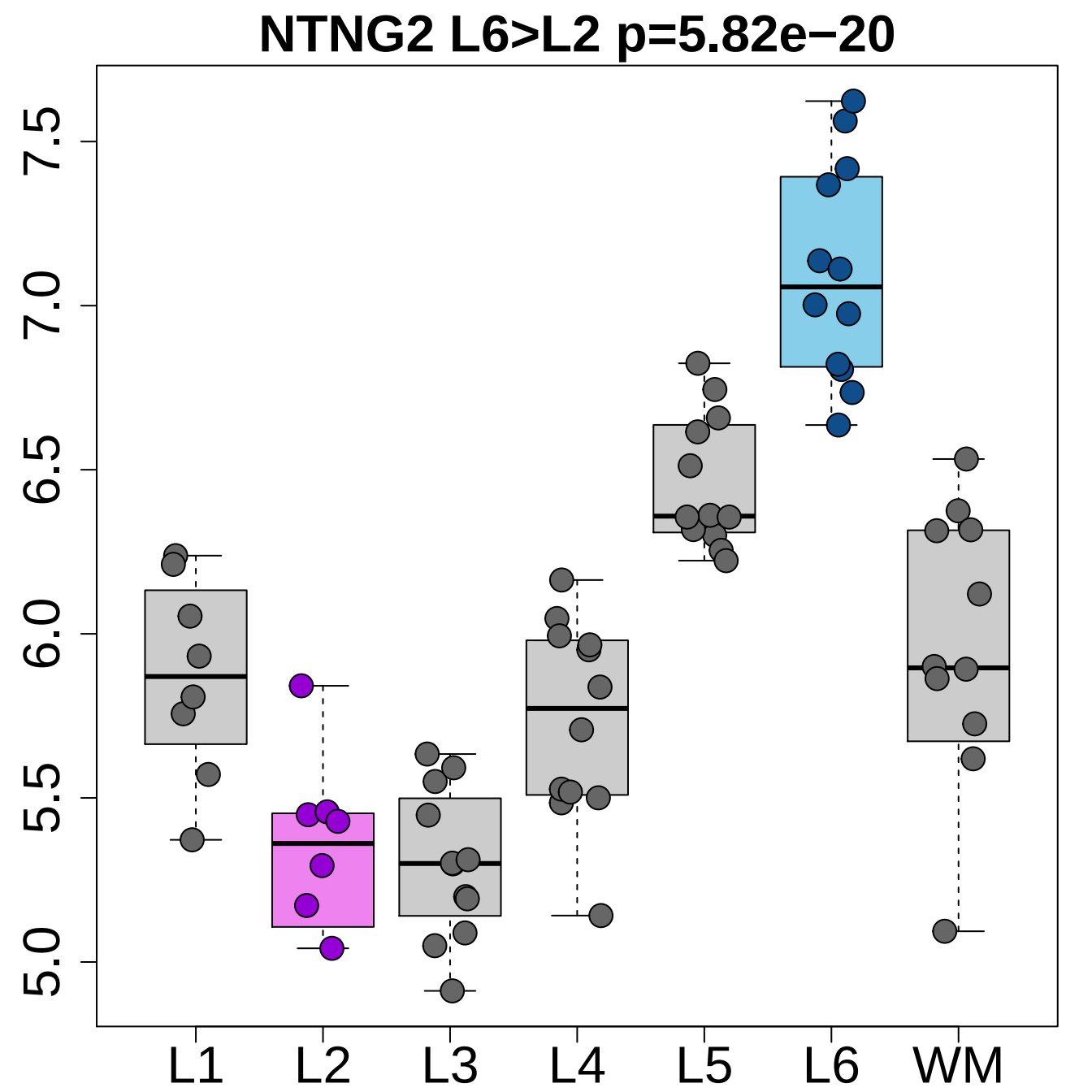
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


NTNG2 L6>L2 p=5.82e−20
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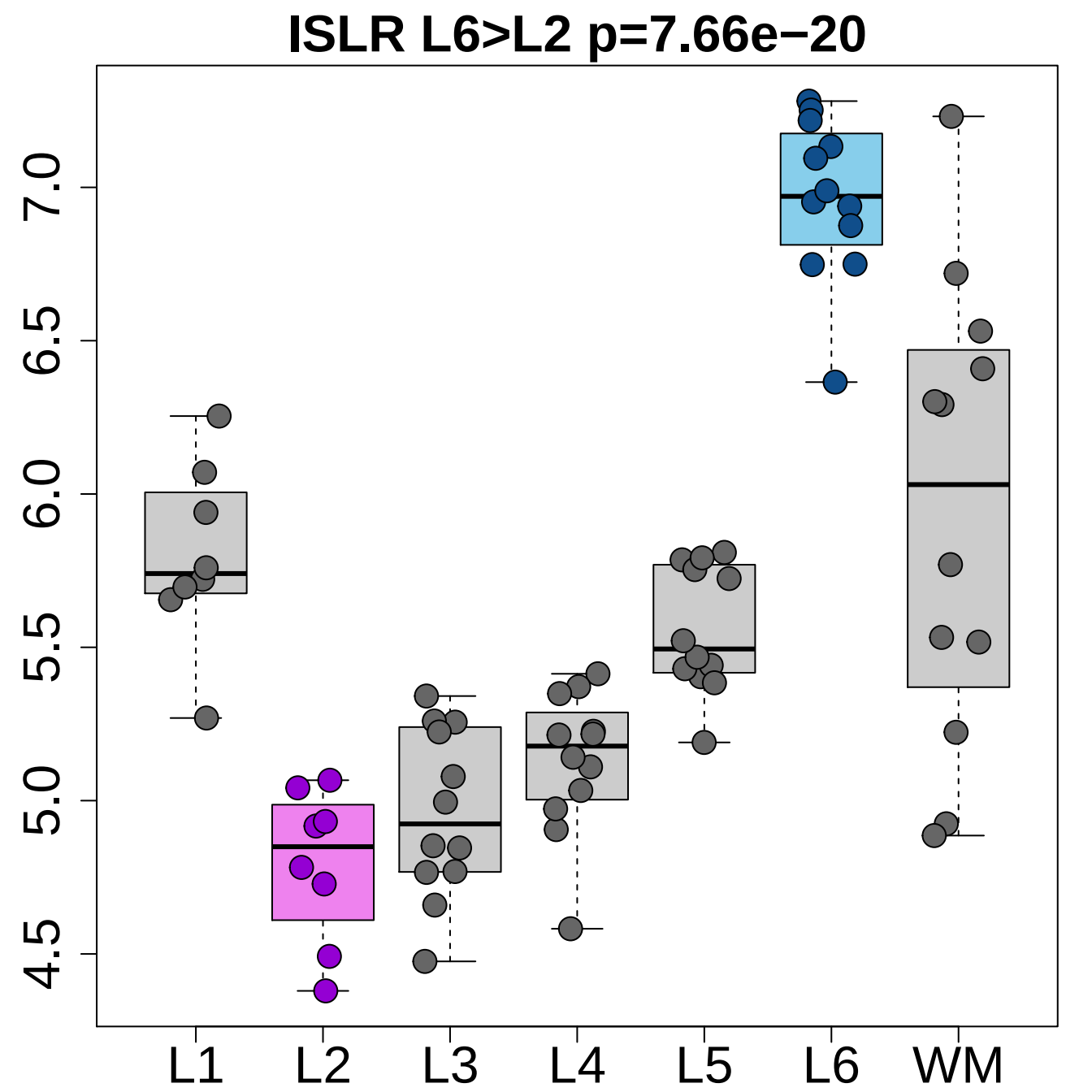
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


ISLR L6>L2 p=7.66e−20
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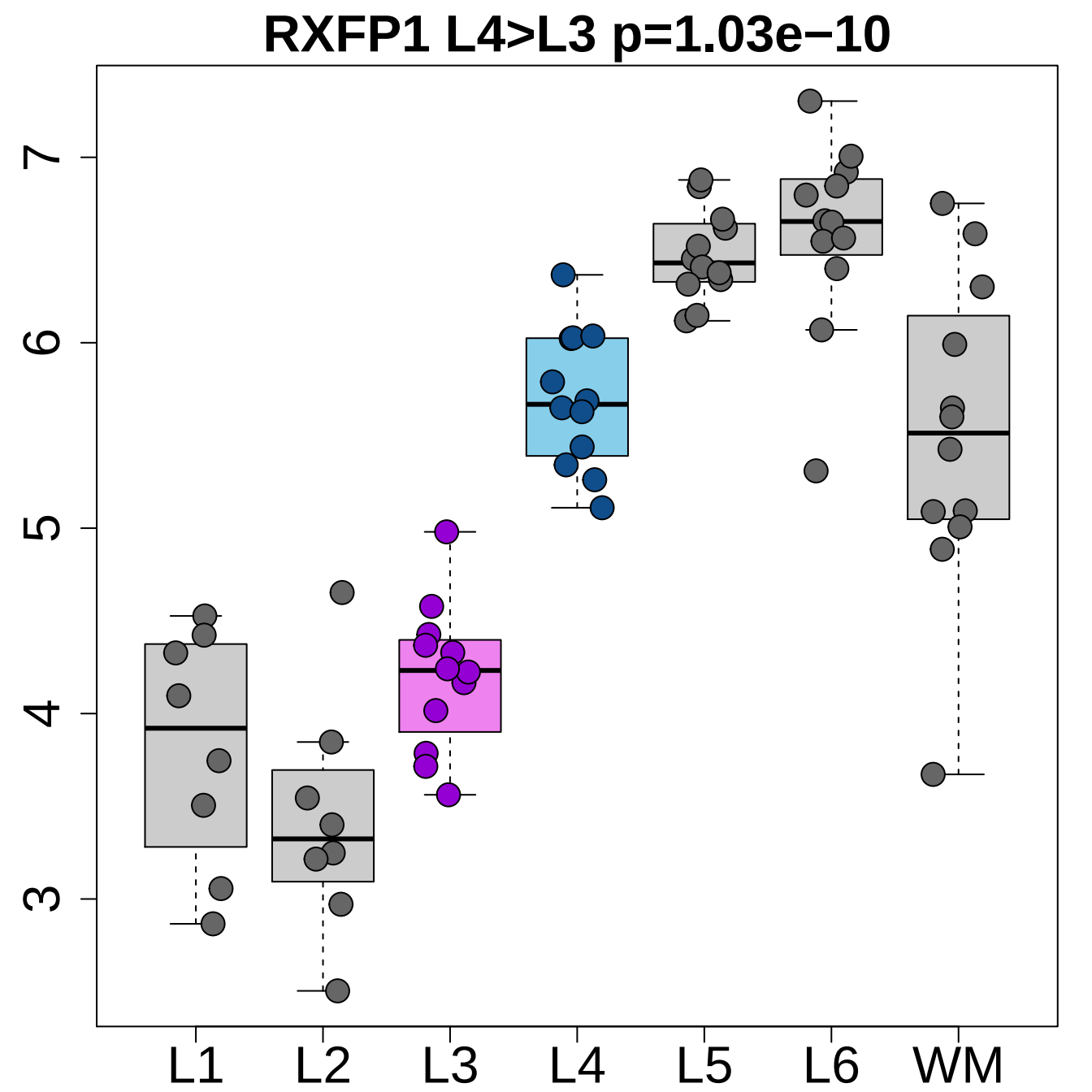
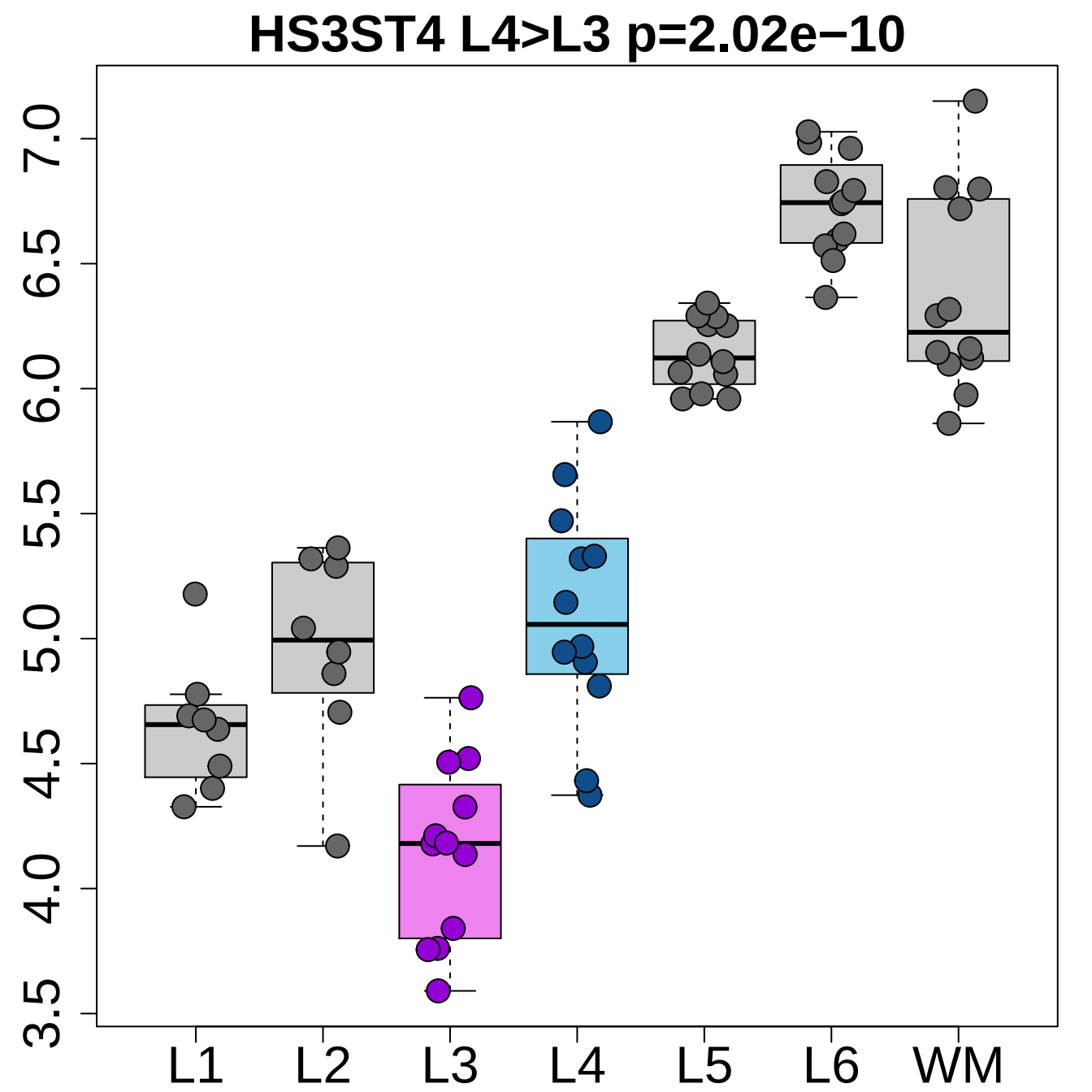
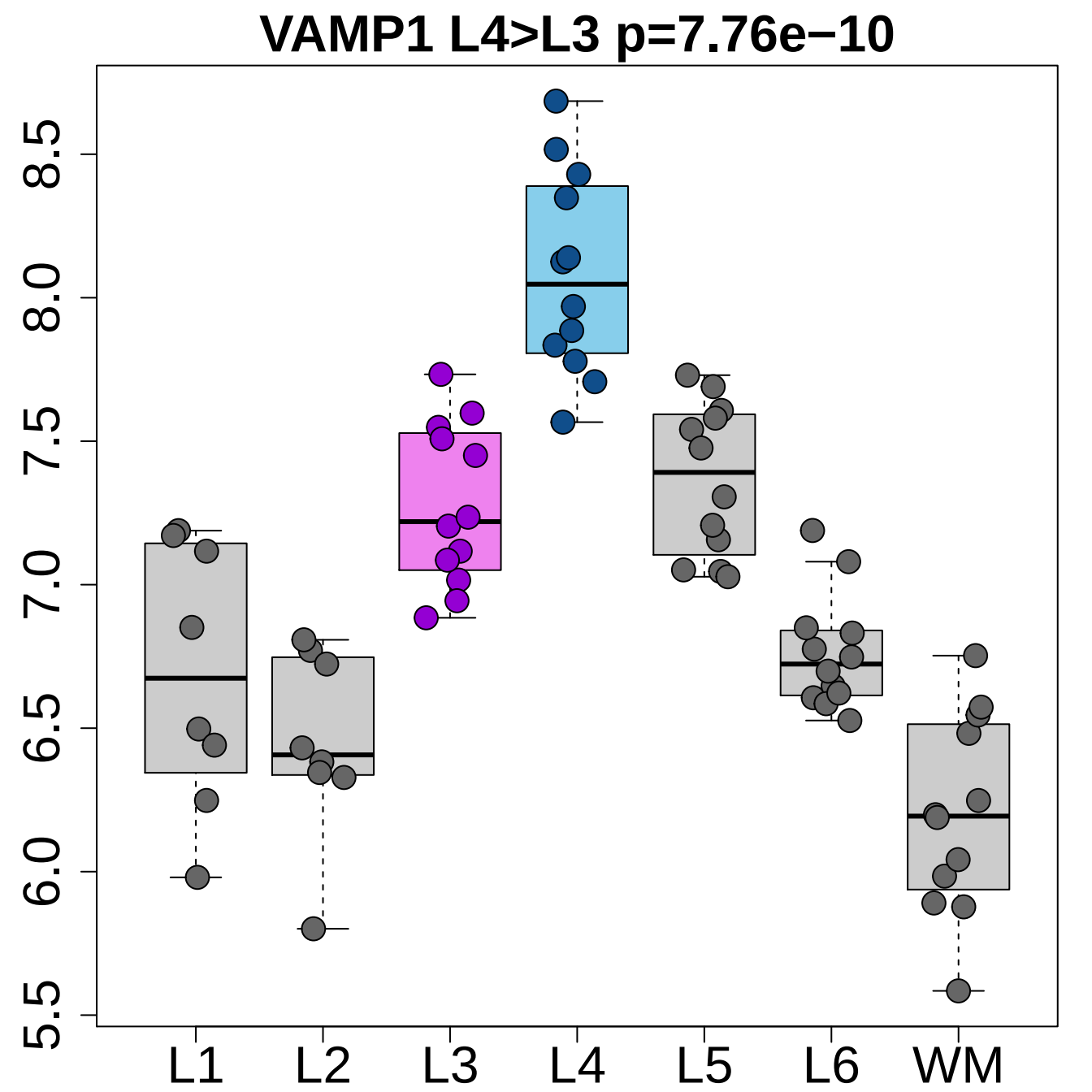
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


RXFP1 L4>L3 p=1.03e−10
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


HS3ST4 L4>L3 p=2.02e−10
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


VAMP1 L4>L3 p=7.76e−10
8.5
8.0
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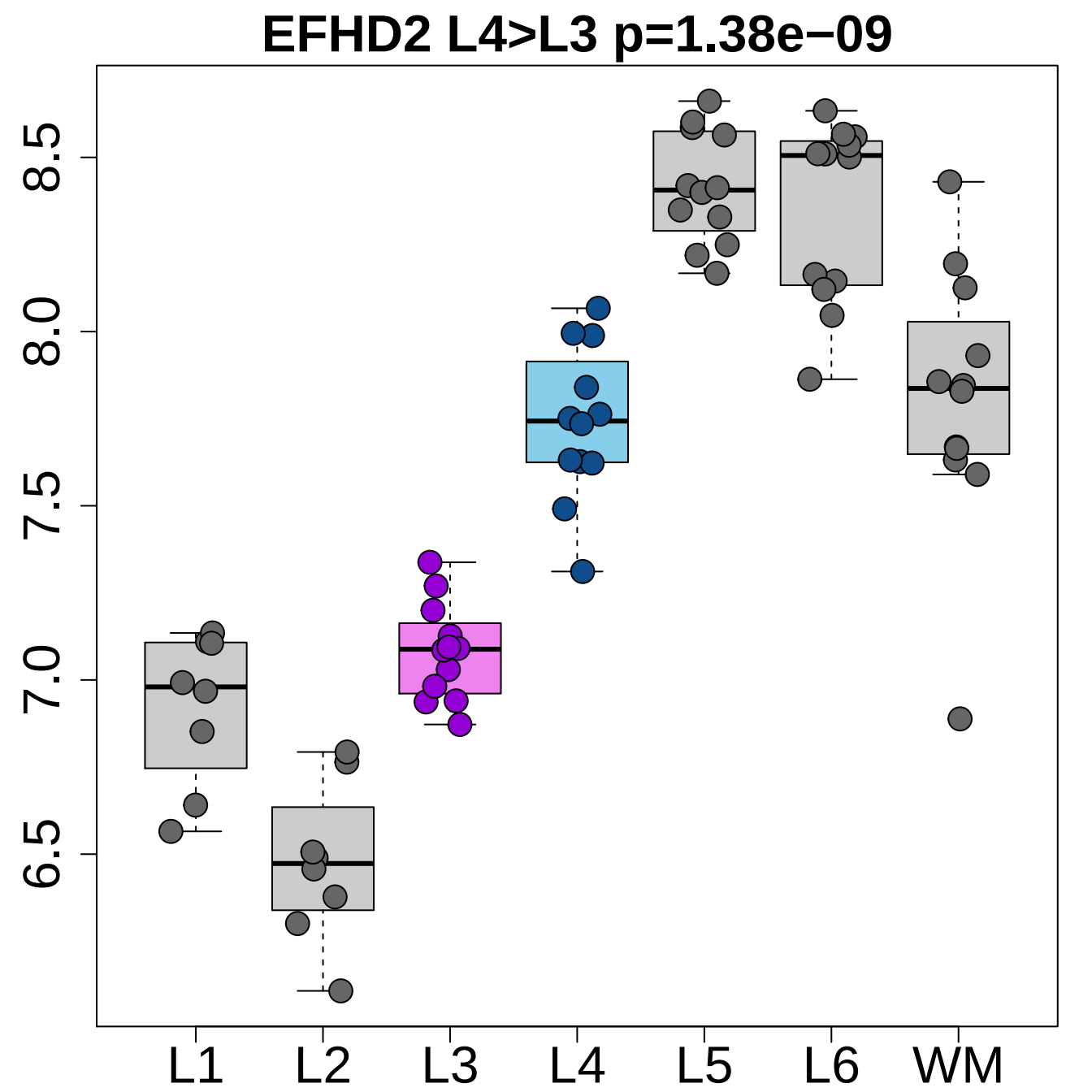
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


EFHD2 L4>L3 p=1.38e−09
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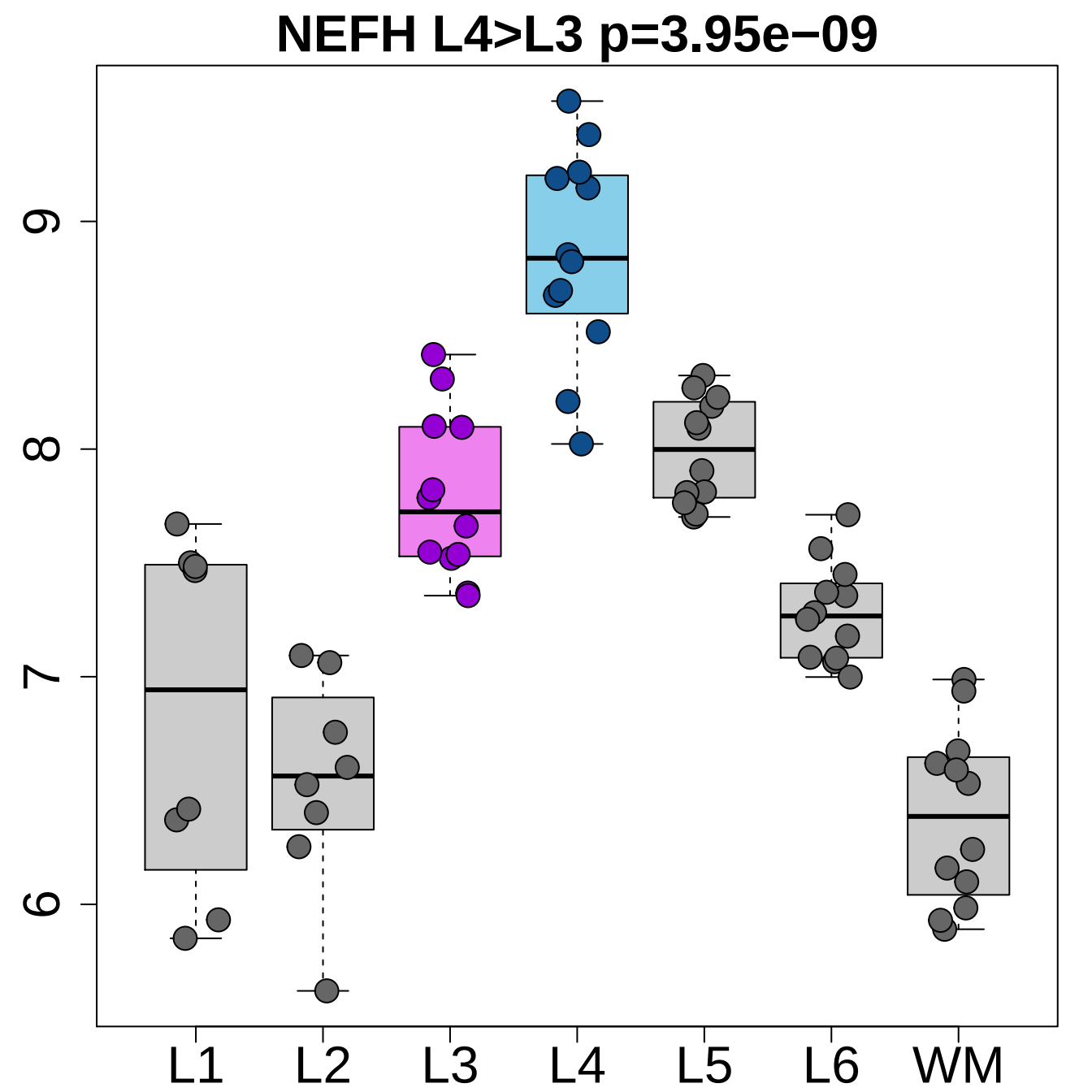
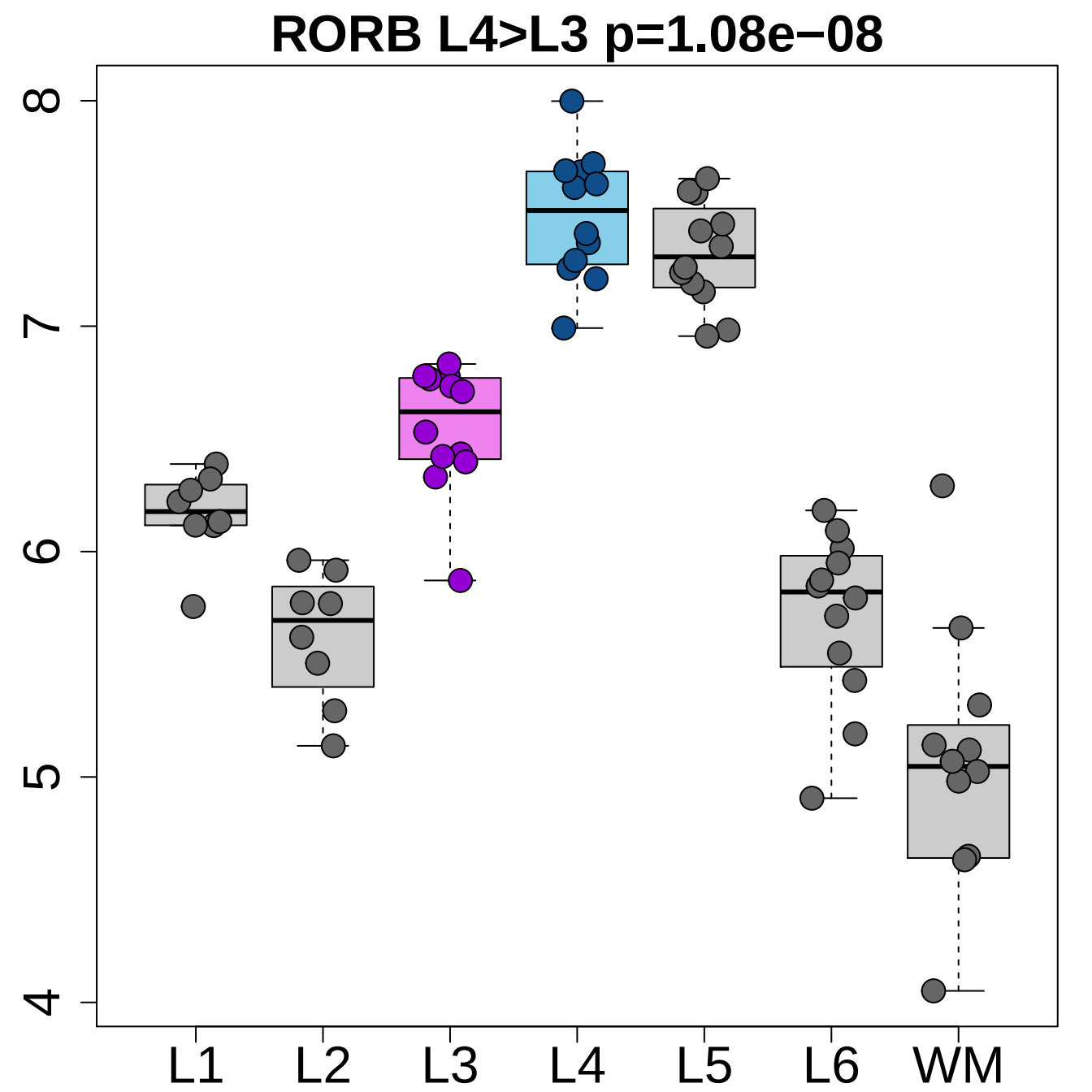
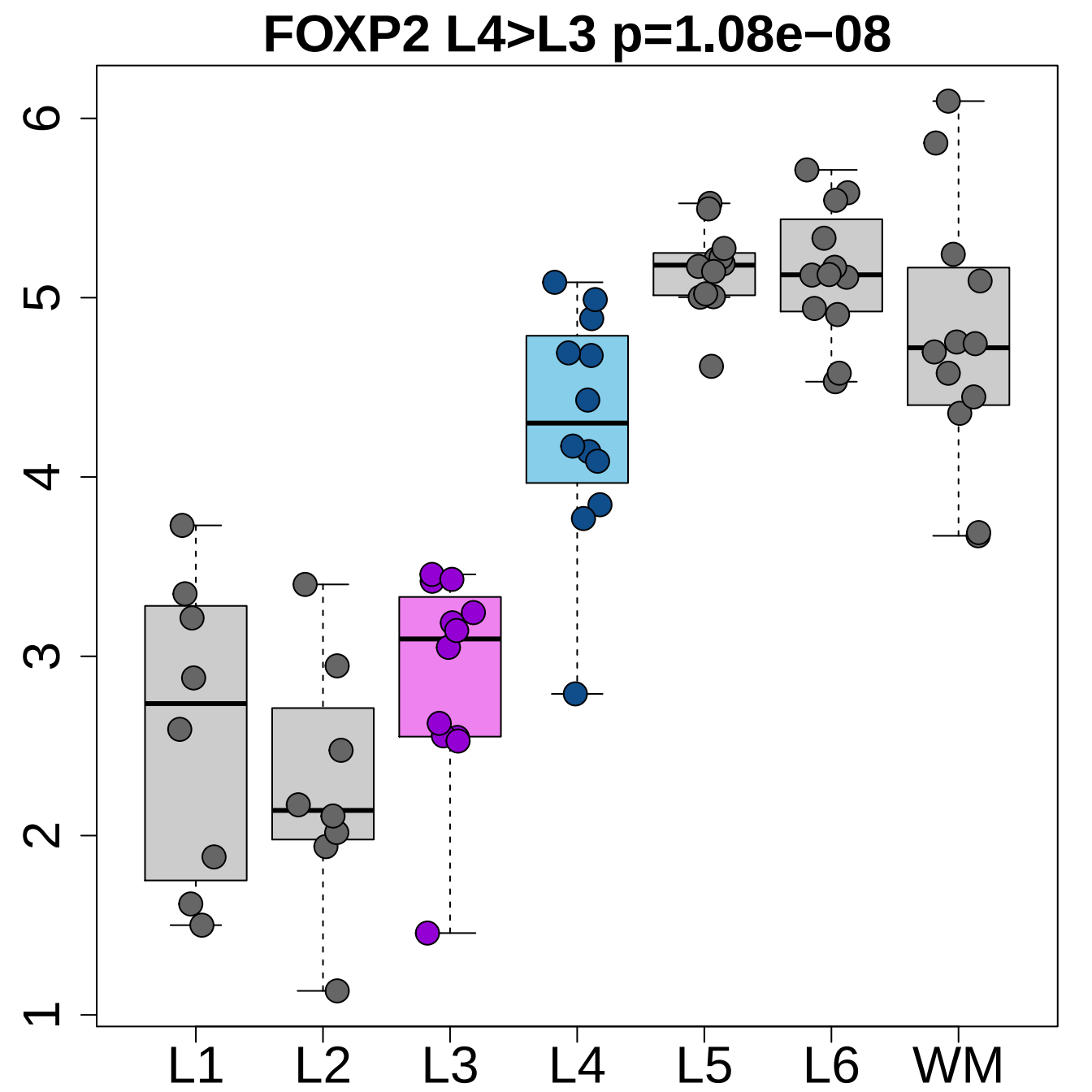
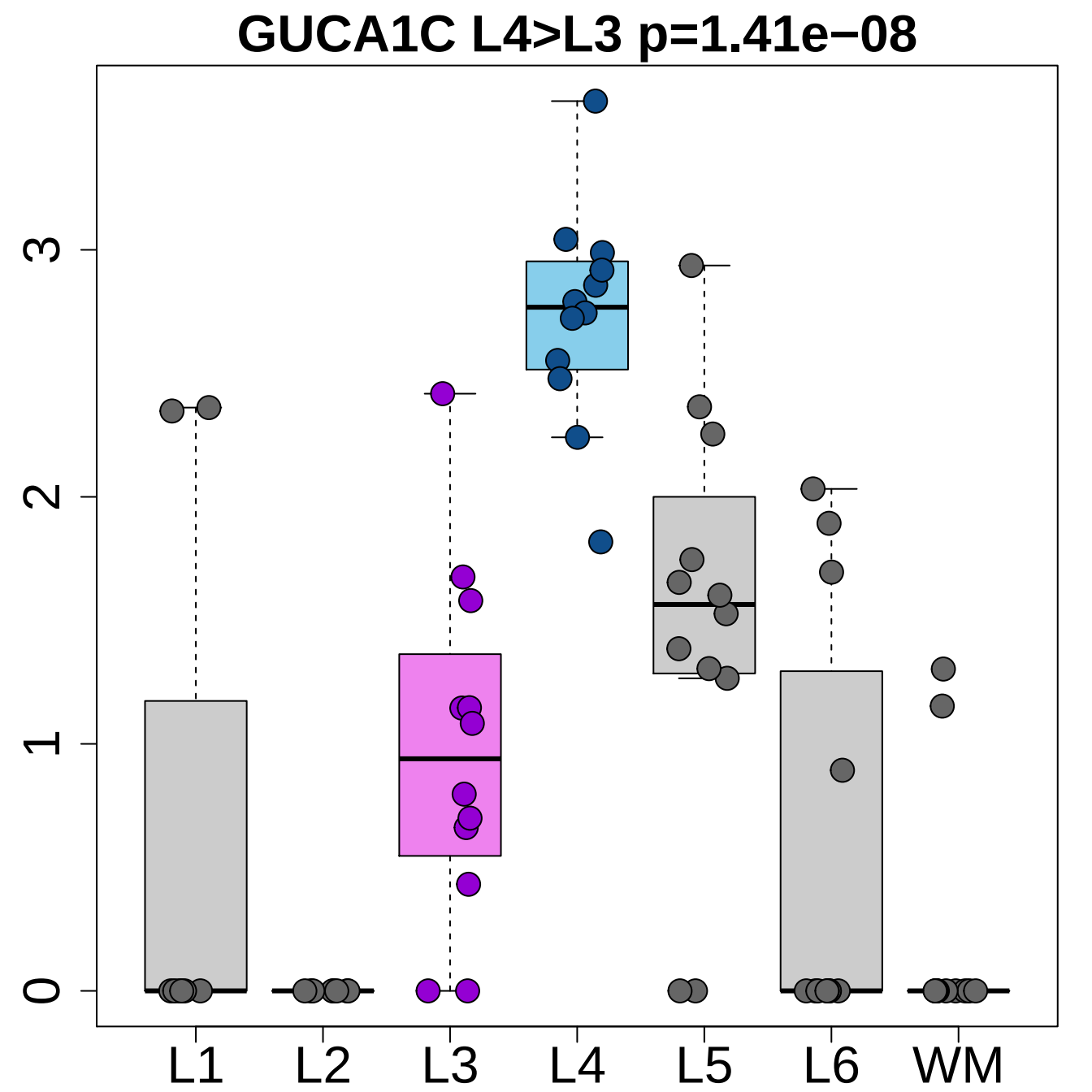
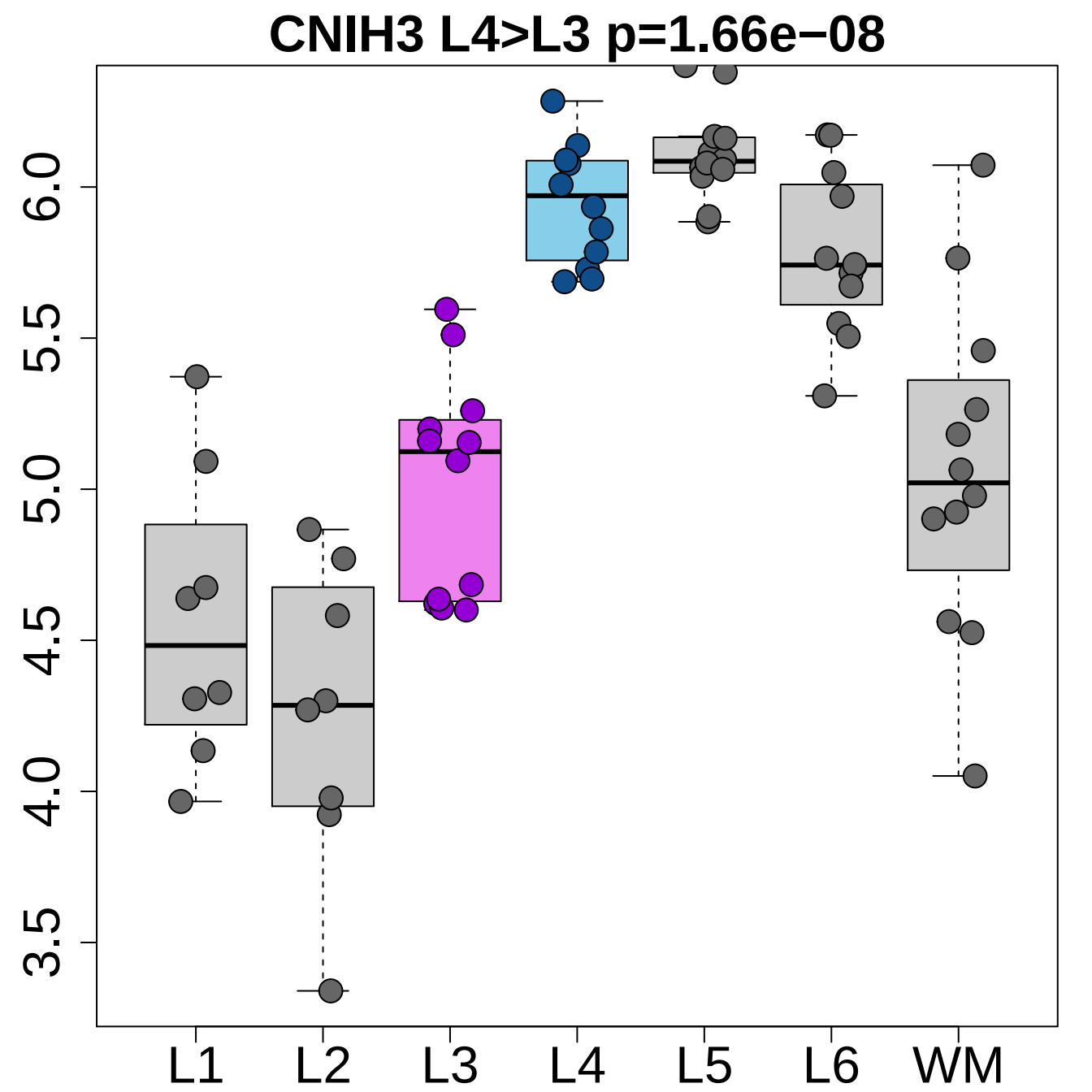
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

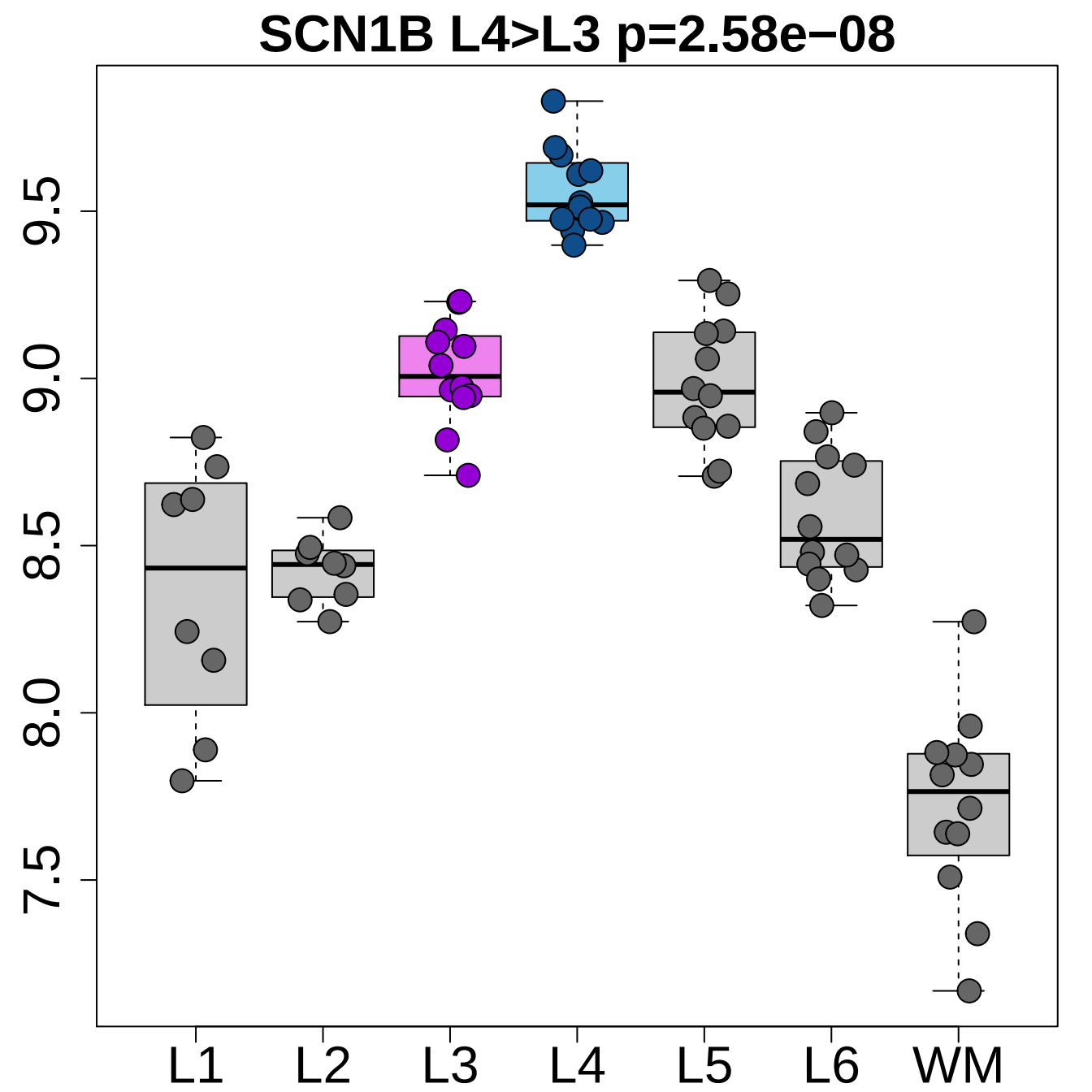

NEFH L4>L3 p=3.95e−09
9
8
7
6
L1
L2
L3
L4
L5
L6
WM


RORB L4>L3 p=1.08e−08
8
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


FOXP2 L4>L3 p=1.08e−08
1
2
3
4
5
6
L1
L2
L3
L4
L5
L6
WM


GUCA1C L4>L3 p=1.41e−08
0
1
2
3
L1
L2
L3
L4
L5
L6
WM


CNIH3 L4>L3 p=1.66e−08
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


SCN1B L4>L3 p=2.58e−08
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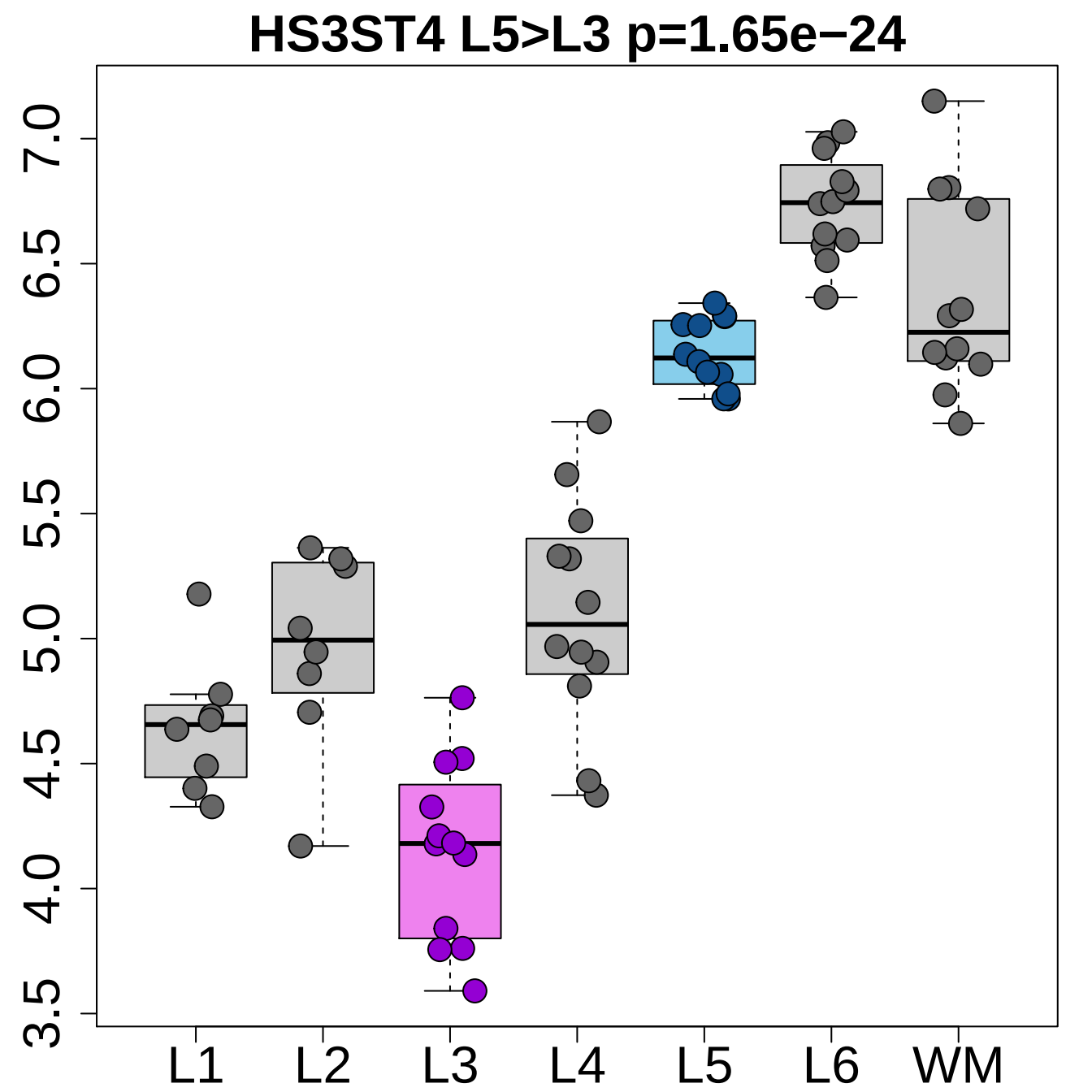
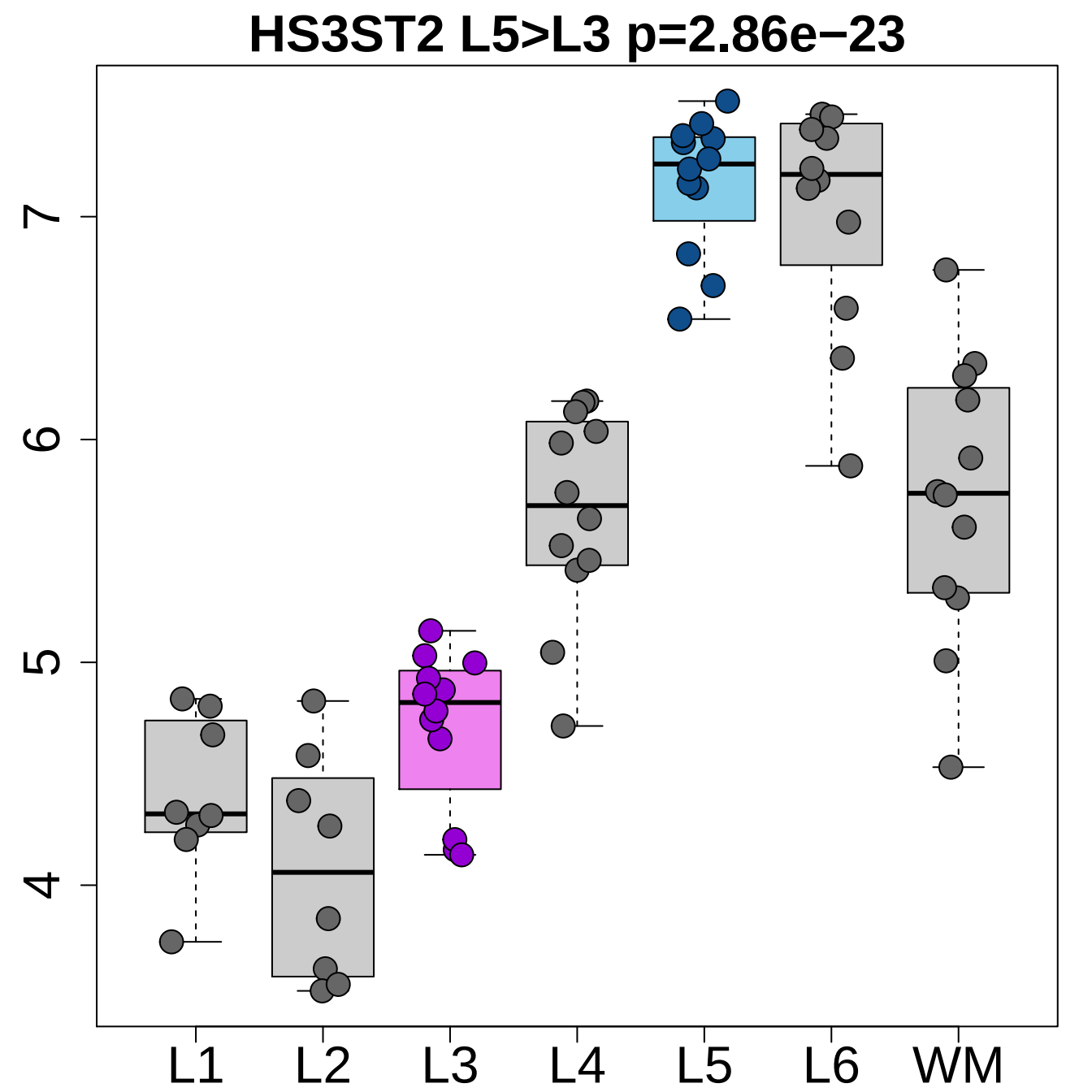
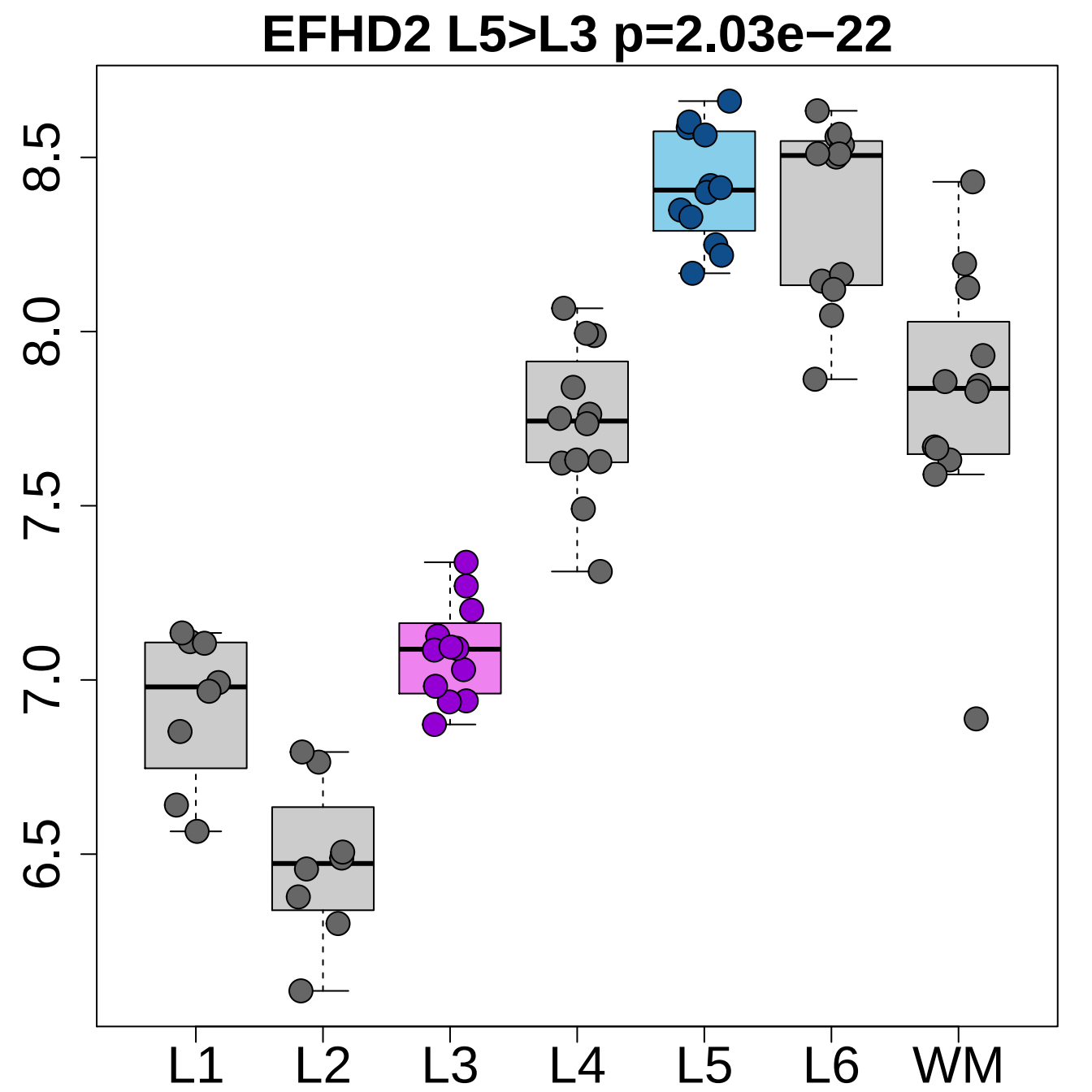
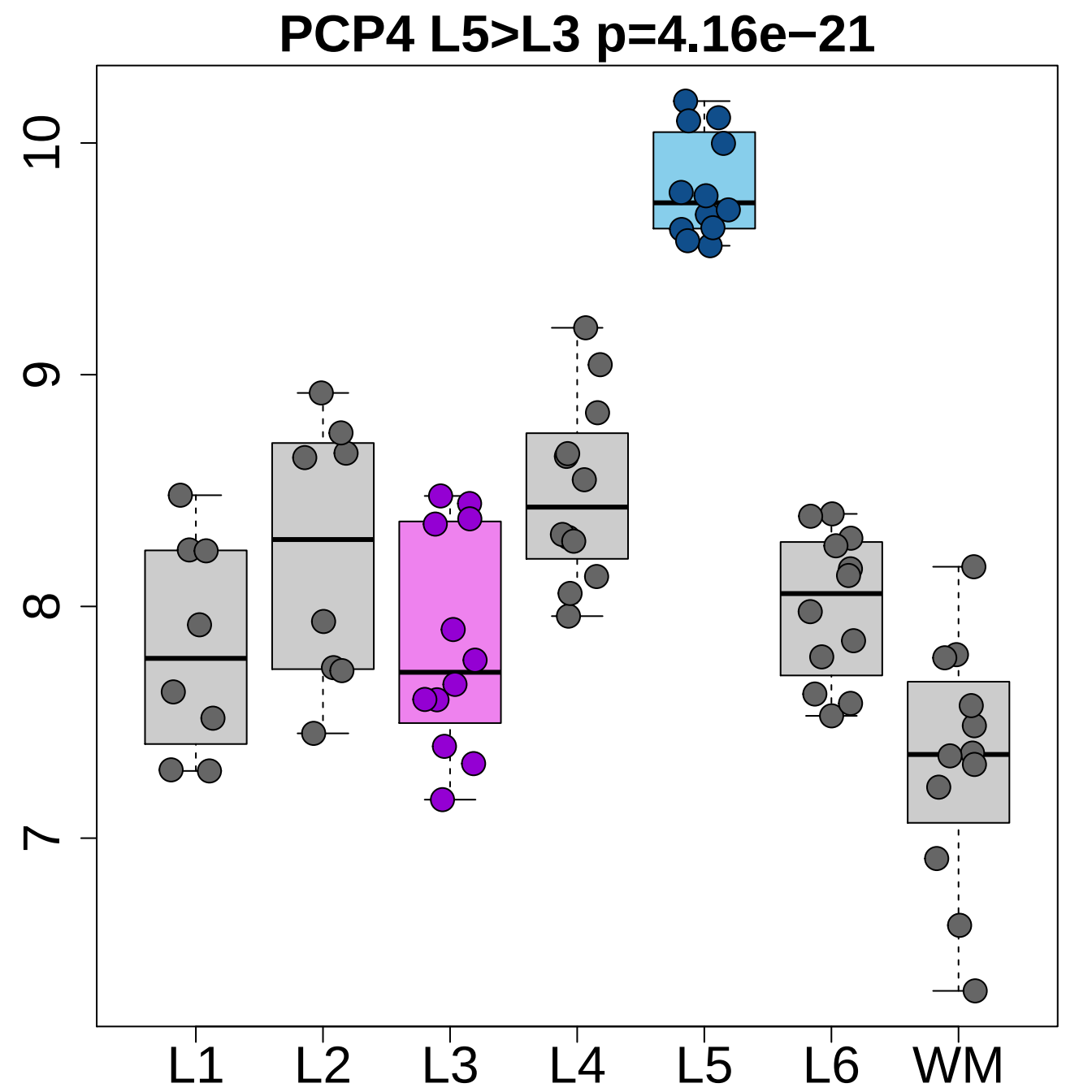
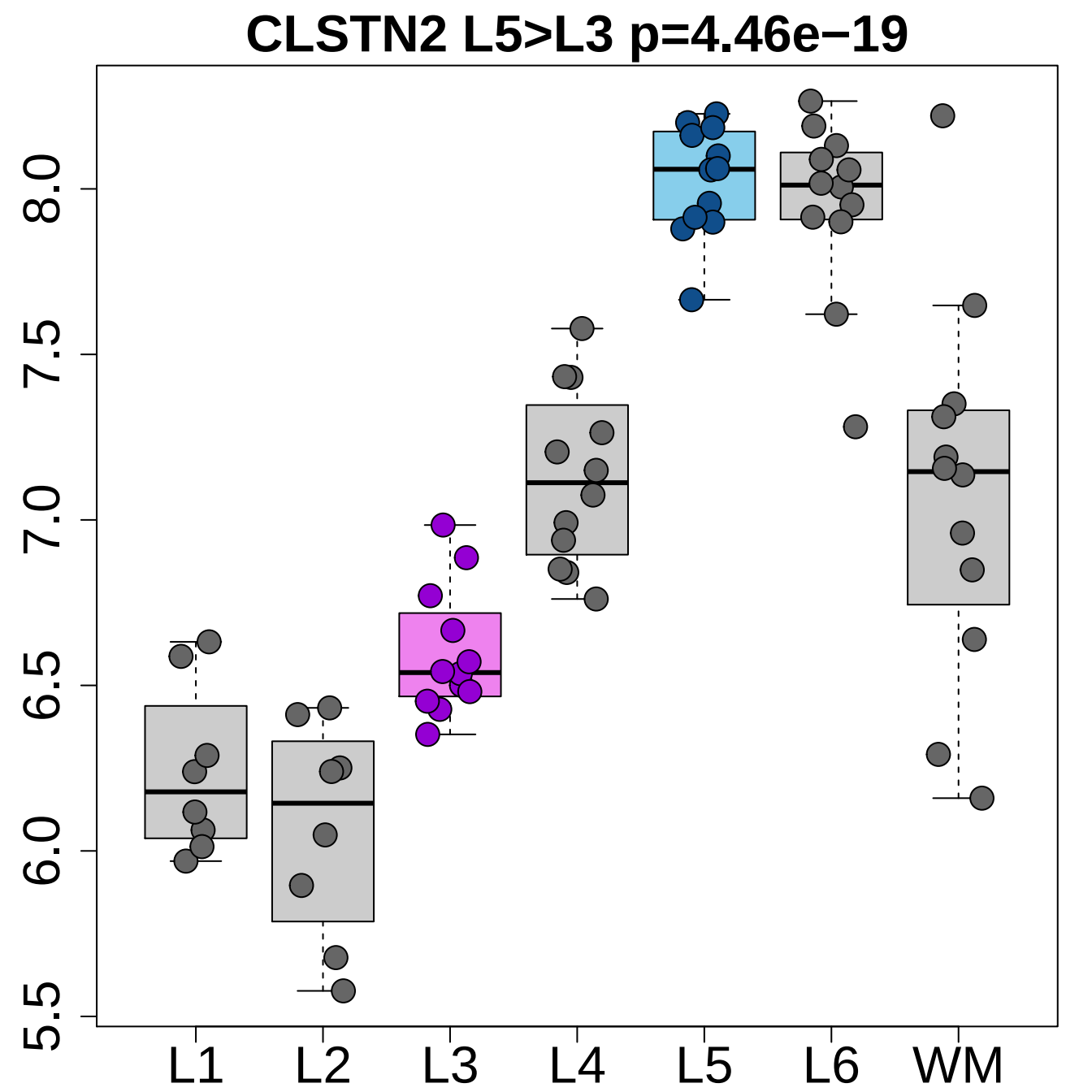
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM


HS3ST4 L5>L3 p=1.65e−24
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


HS3ST2 L5>L3 p=2.86e−23
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


EFHD2 L5>L3 p=2.03e−22
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


PCP4 L5>L3 p=4.16e−21
10
9
8
7
L1
L2
L3
L4
L5
L6
WM


CLSTN2 L5>L3 p=4.46e−19
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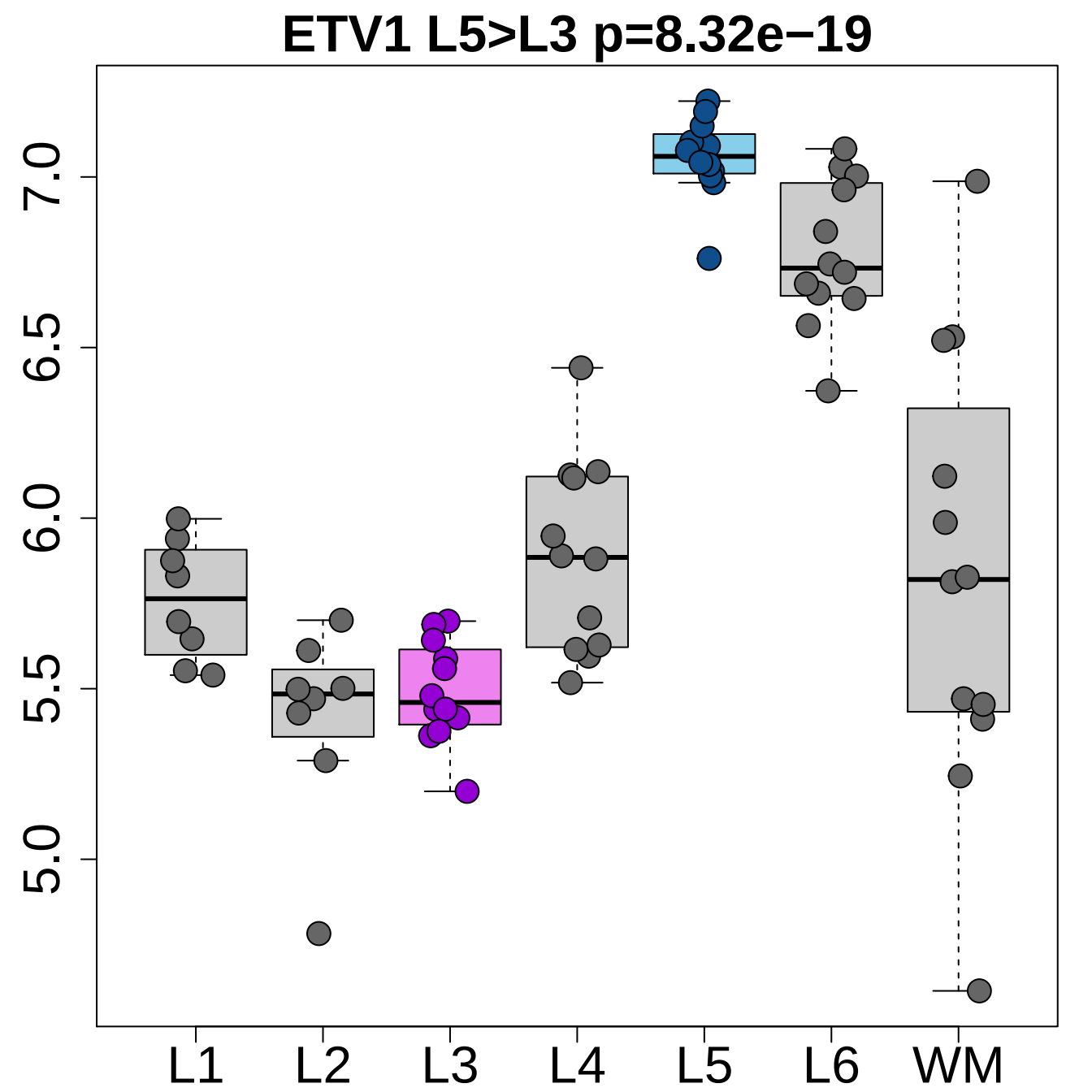
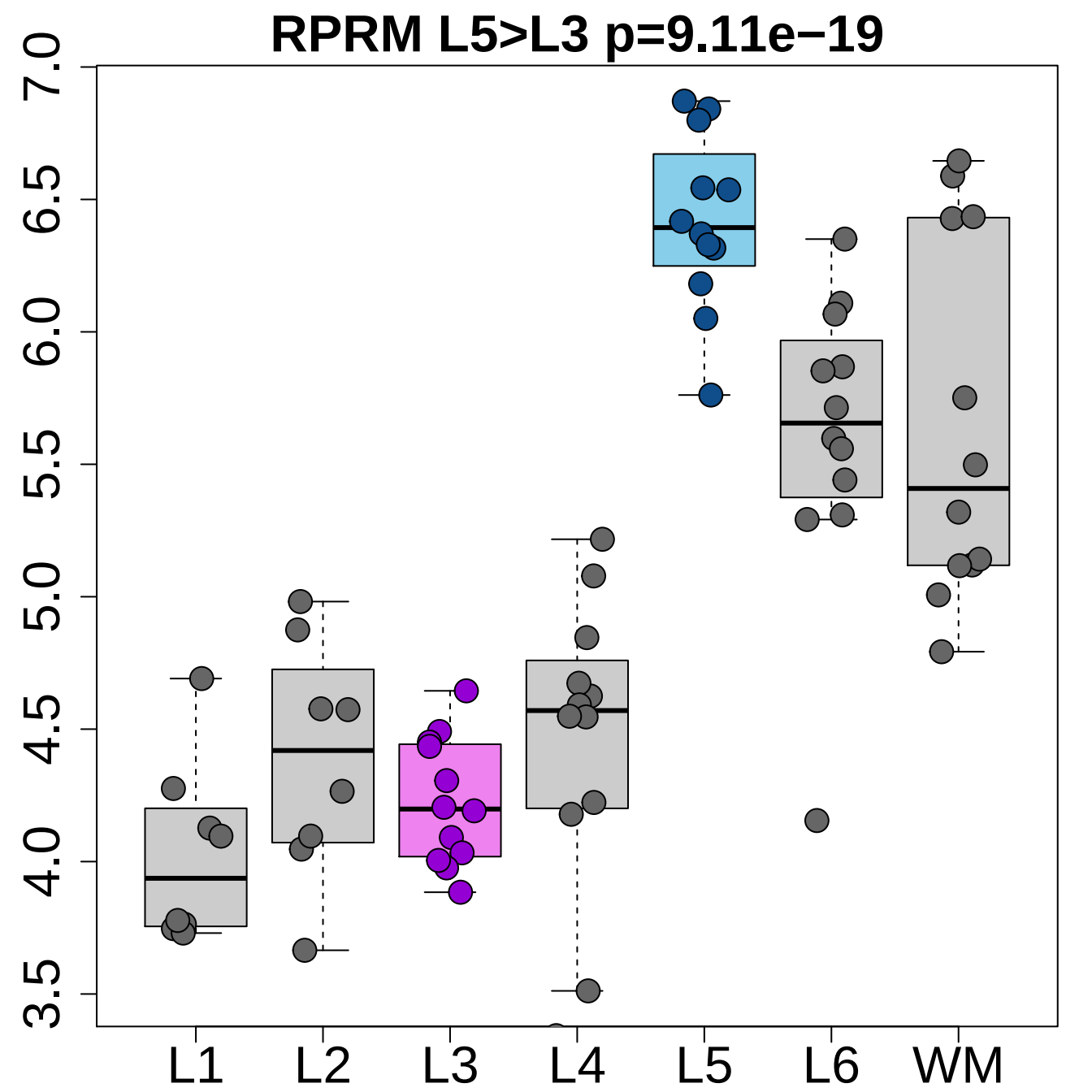
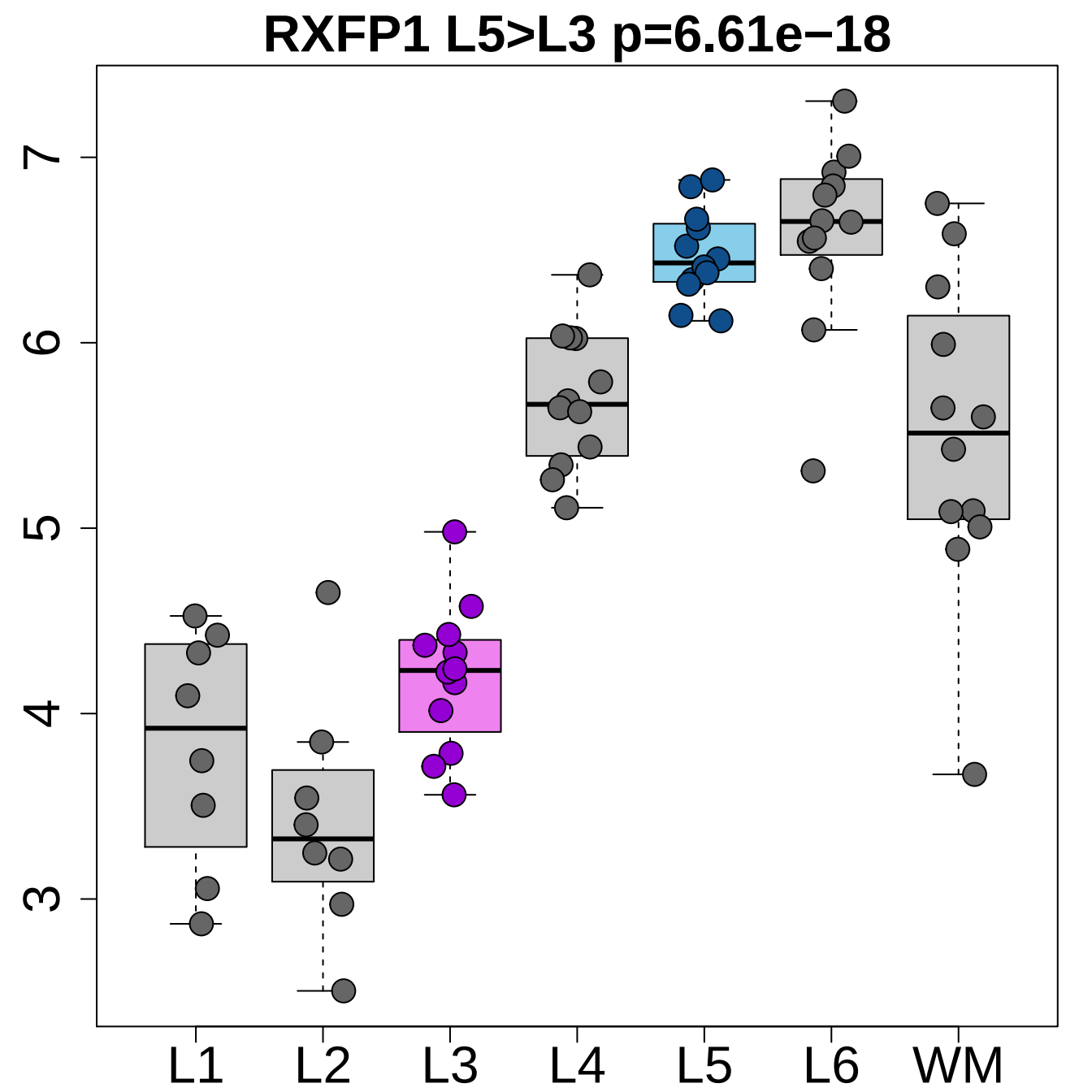
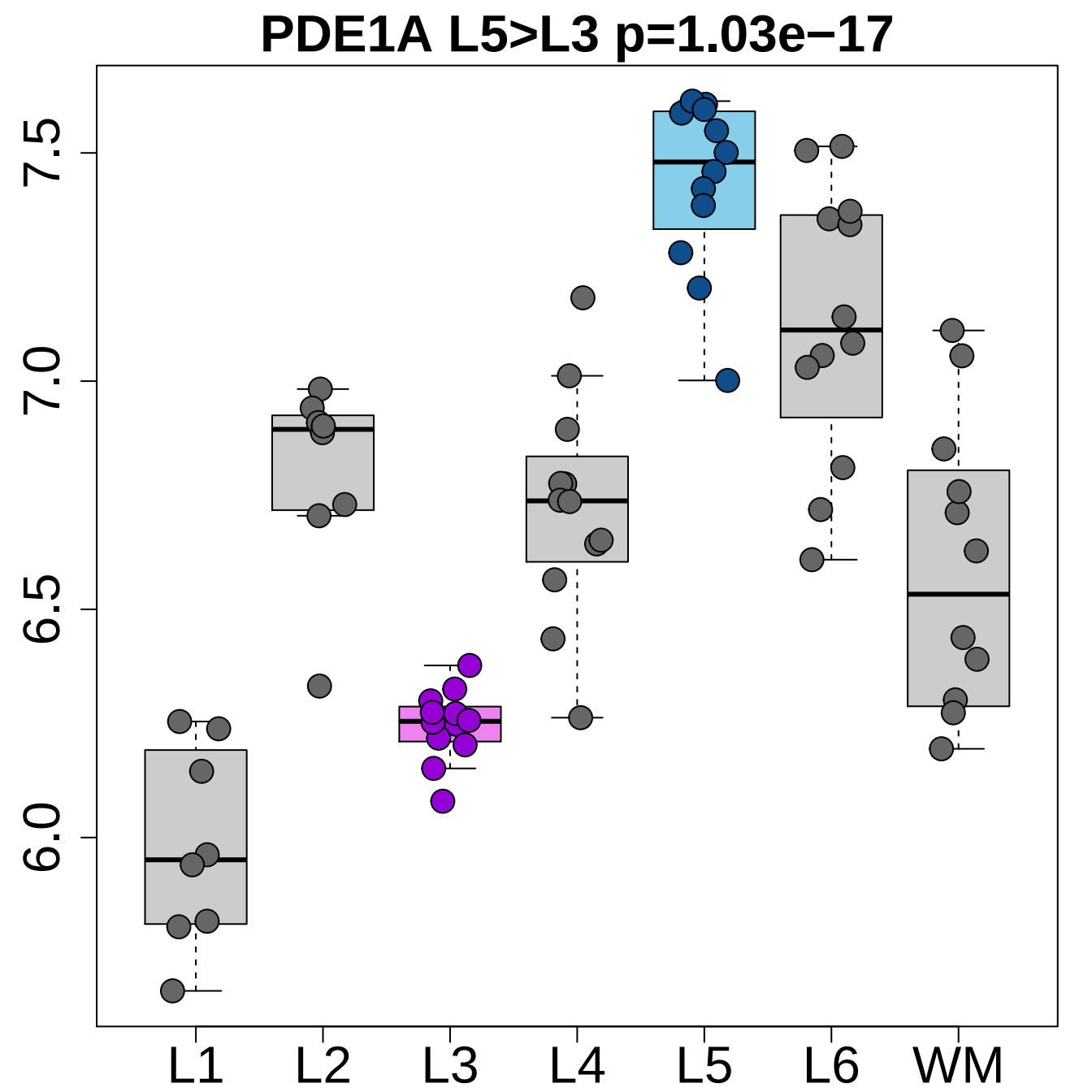
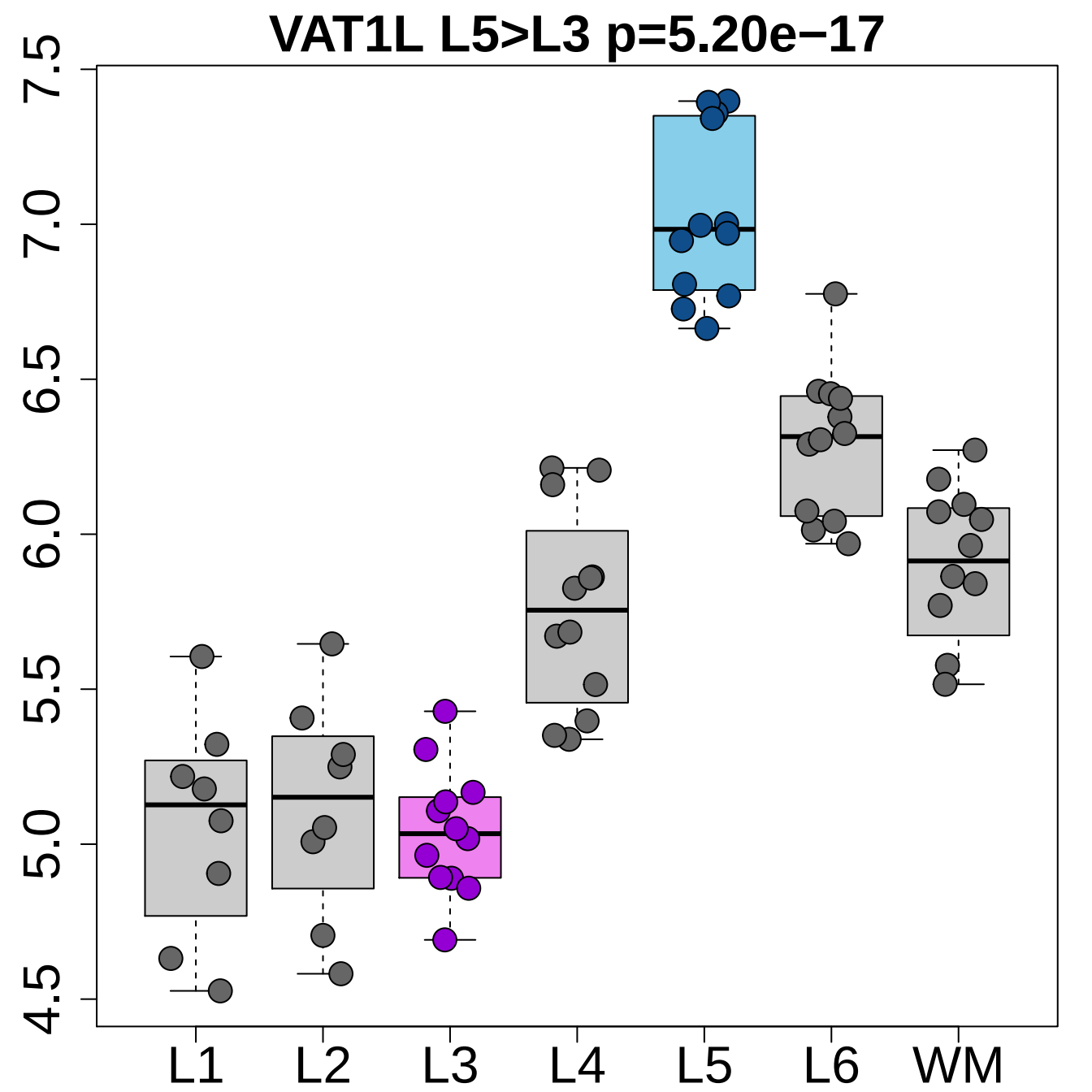
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


ETV1 L5>L3 p=8.32e−19
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


RPRM L5>L3 p=9.11e−19
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


RXFP1 L5>L3 p=6.61e−18
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


PDE1A L5>L3 p=1.03e−17
7.5
7.0
6.5
6.0
L1
L2
L3
L4
L5
L6
WM


VAT1L L5>L3 p=5.20e−17
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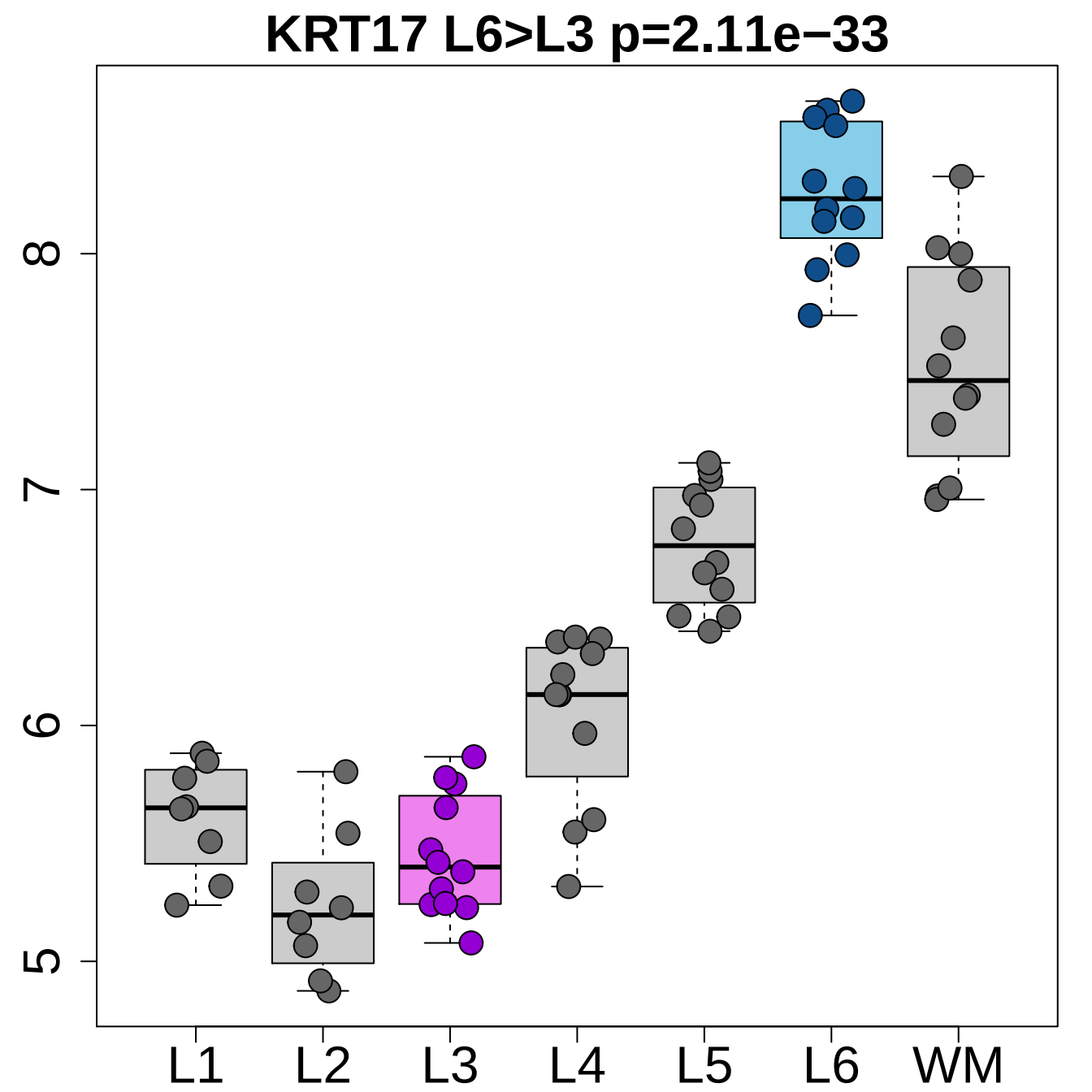
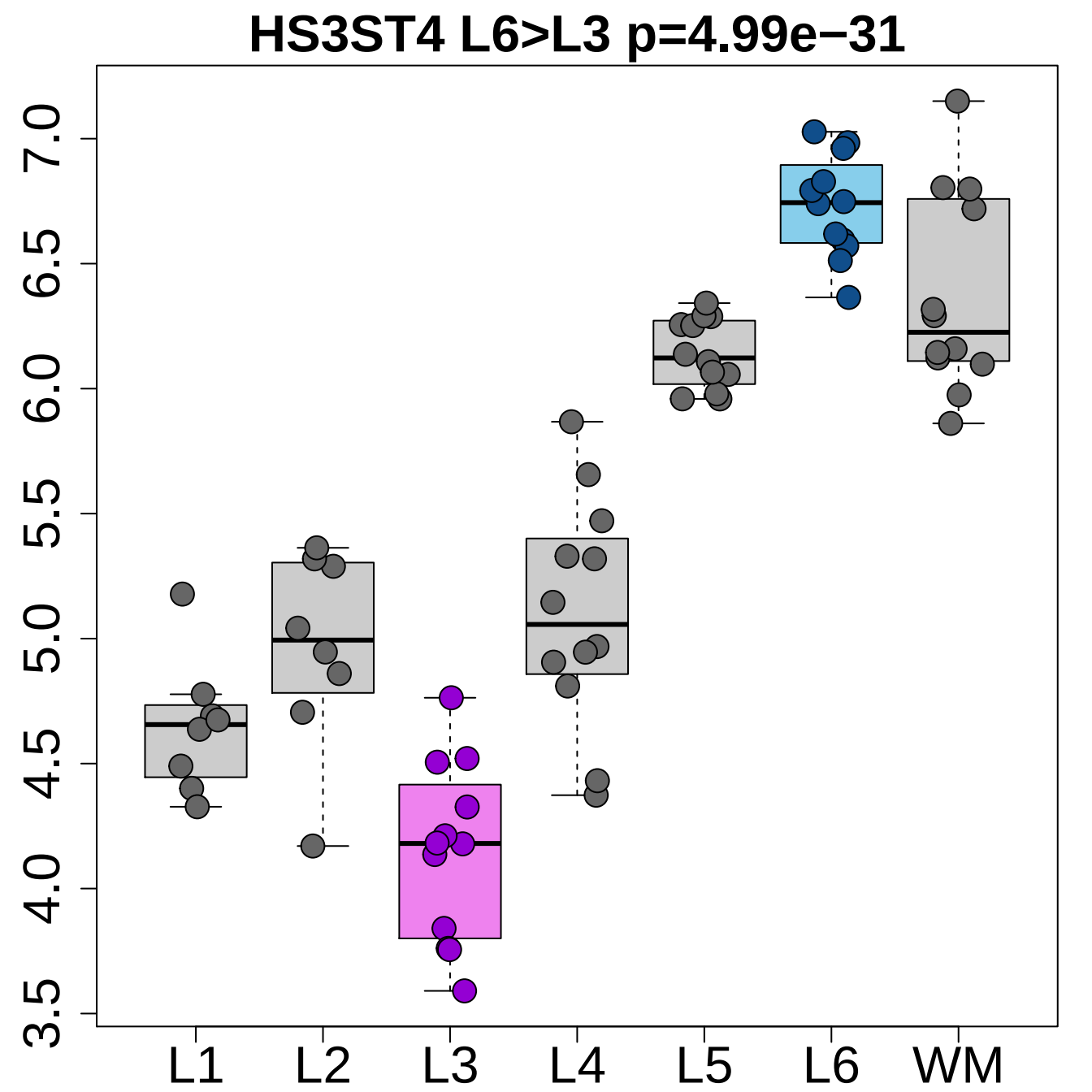
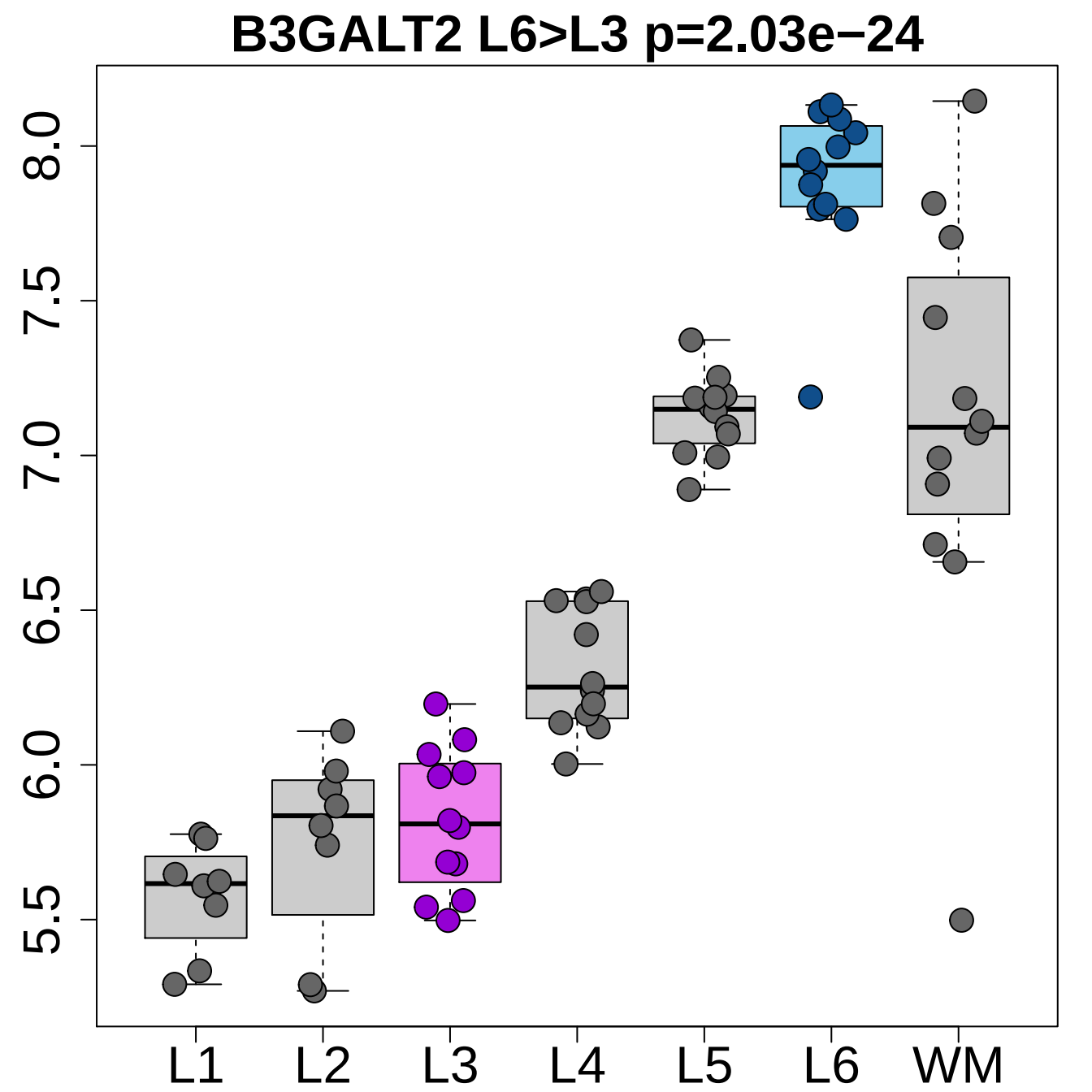
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


KRT17 L6>L3 p=2.11e−33
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


HS3ST4 L6>L3 p=4.99e−31
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


B3GALT2 L6>L3 p=2.03e−24
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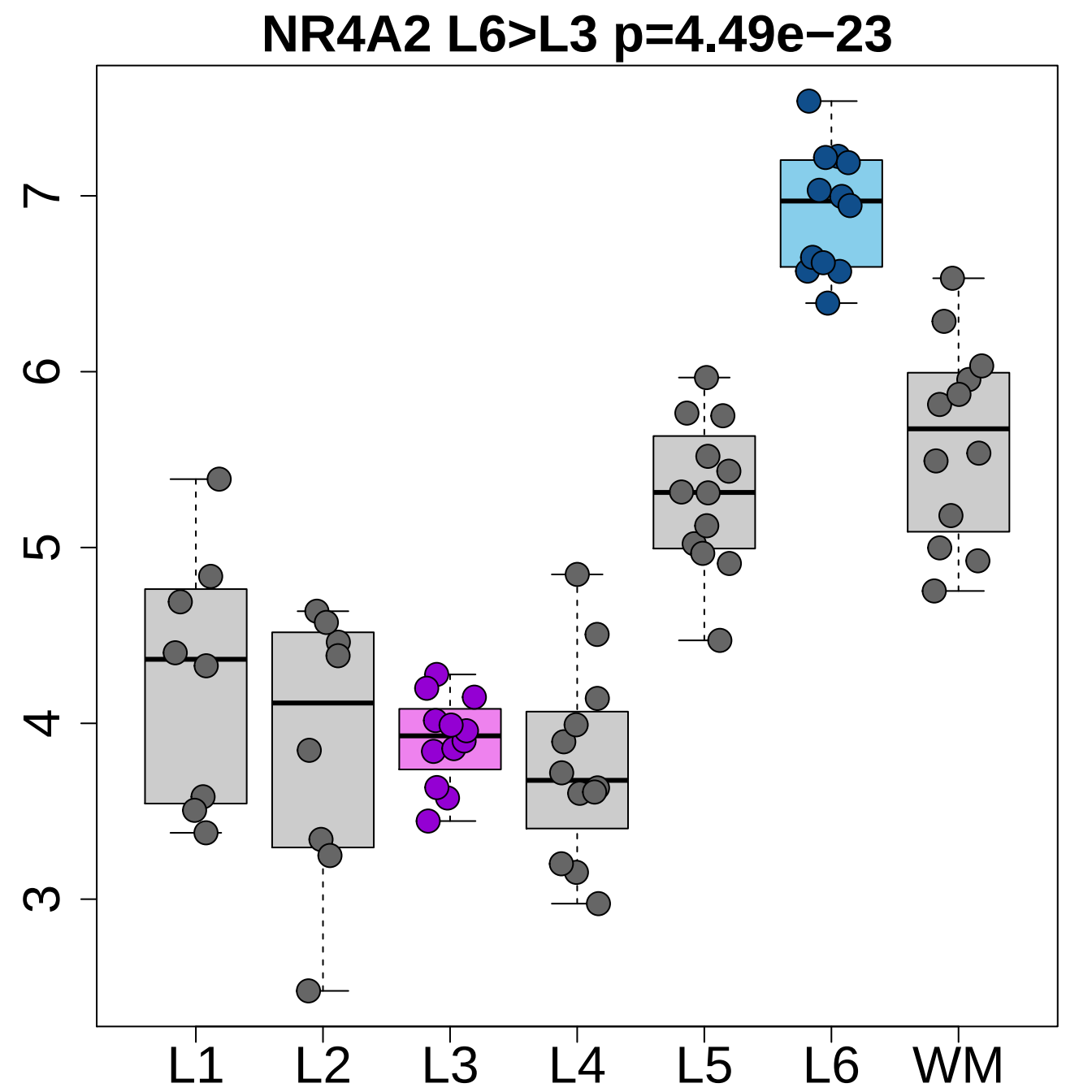
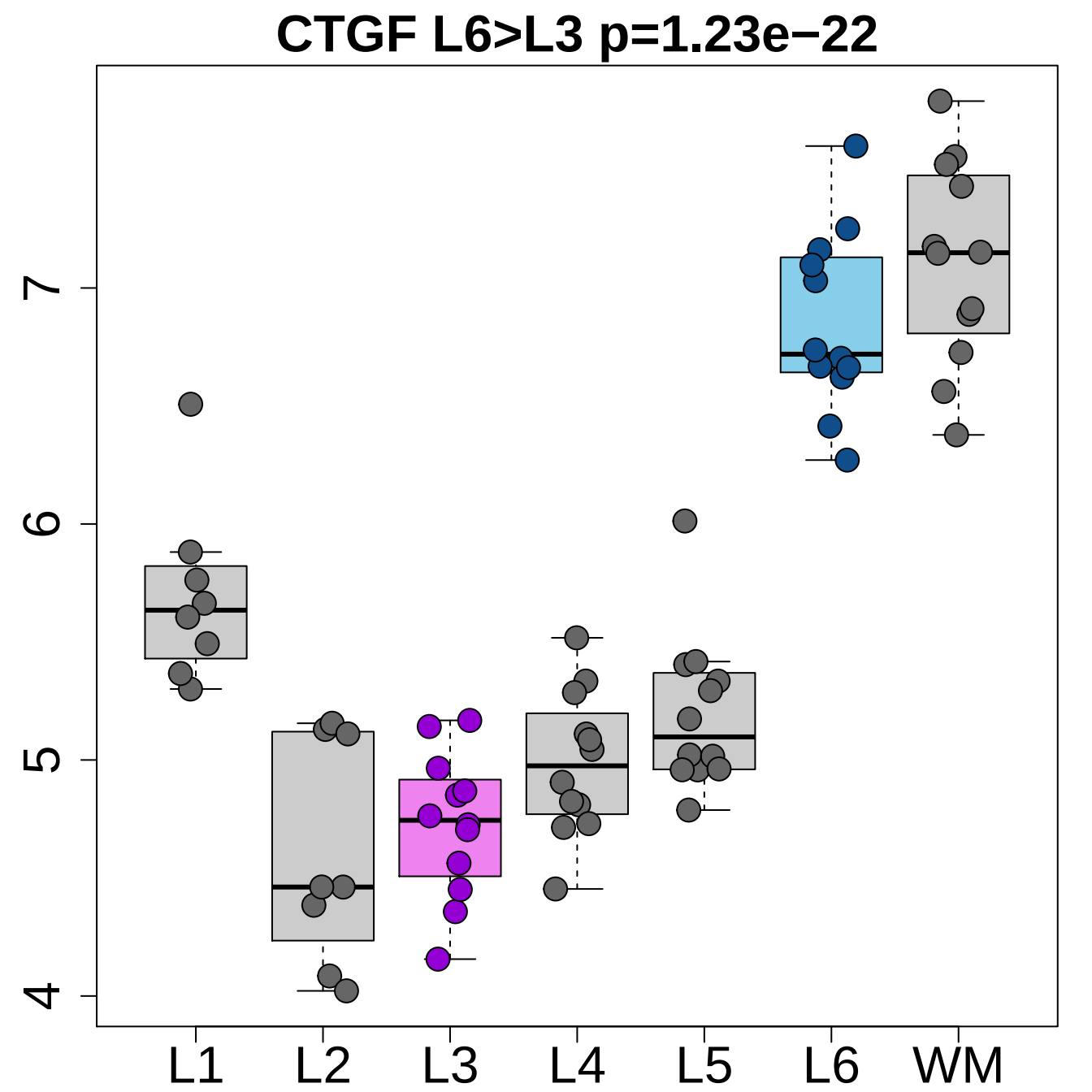
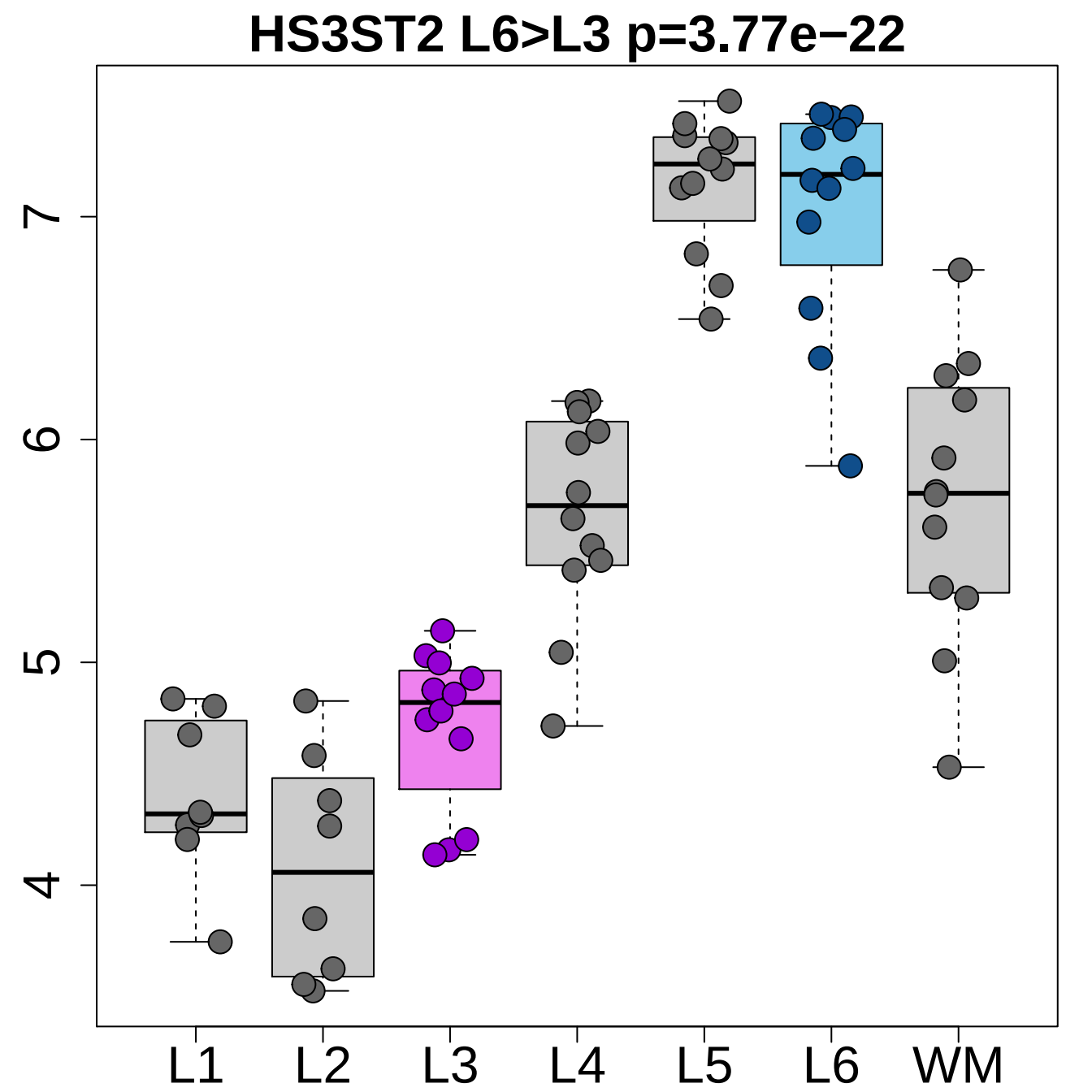
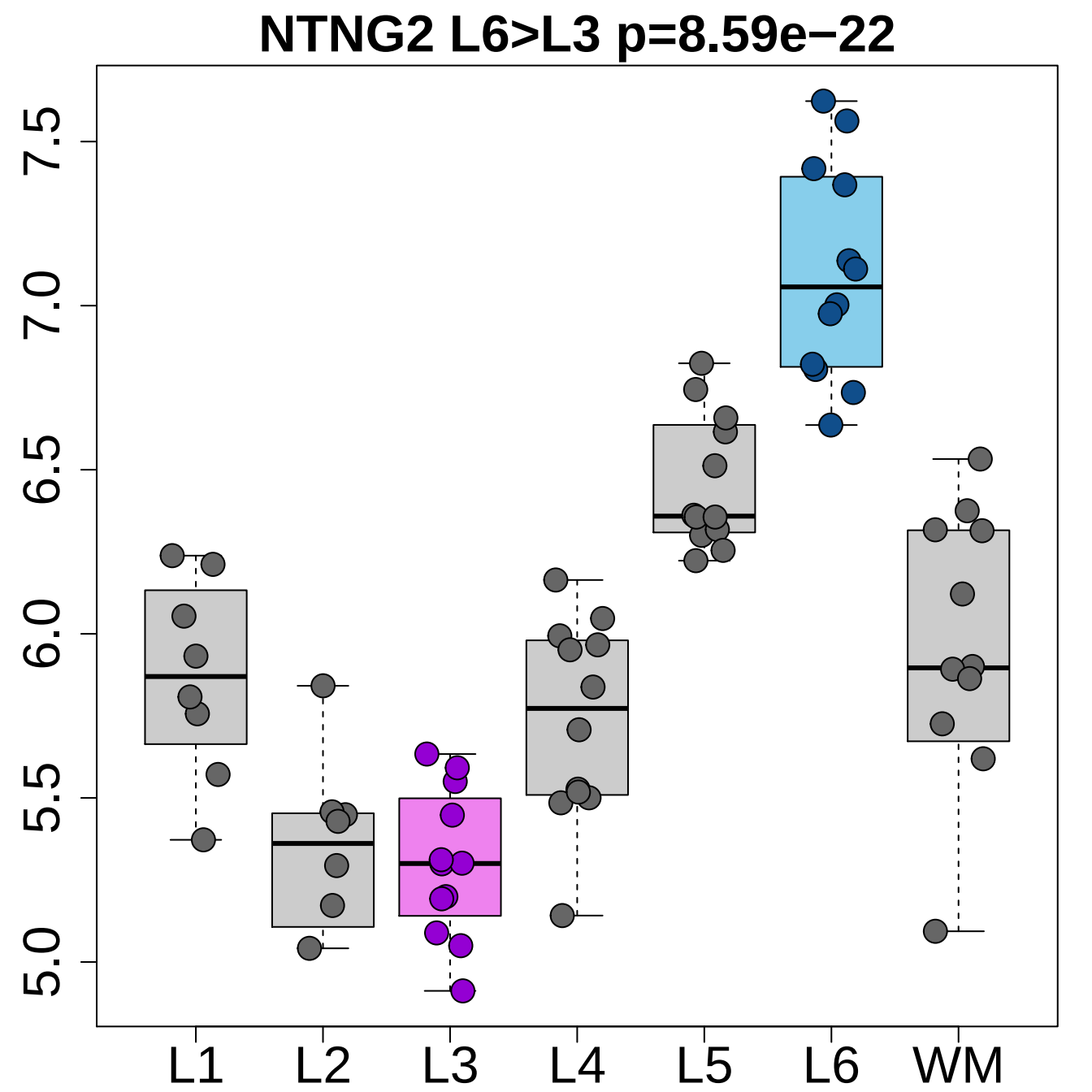
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


NR4A2 L6>L3 p=4.49e−23
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


CTGF L6>L3 p=1.23e−22
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


HS3ST2 L6>L3 p=3.77e−22
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


NTNG2 L6>L3 p=8.59e−22
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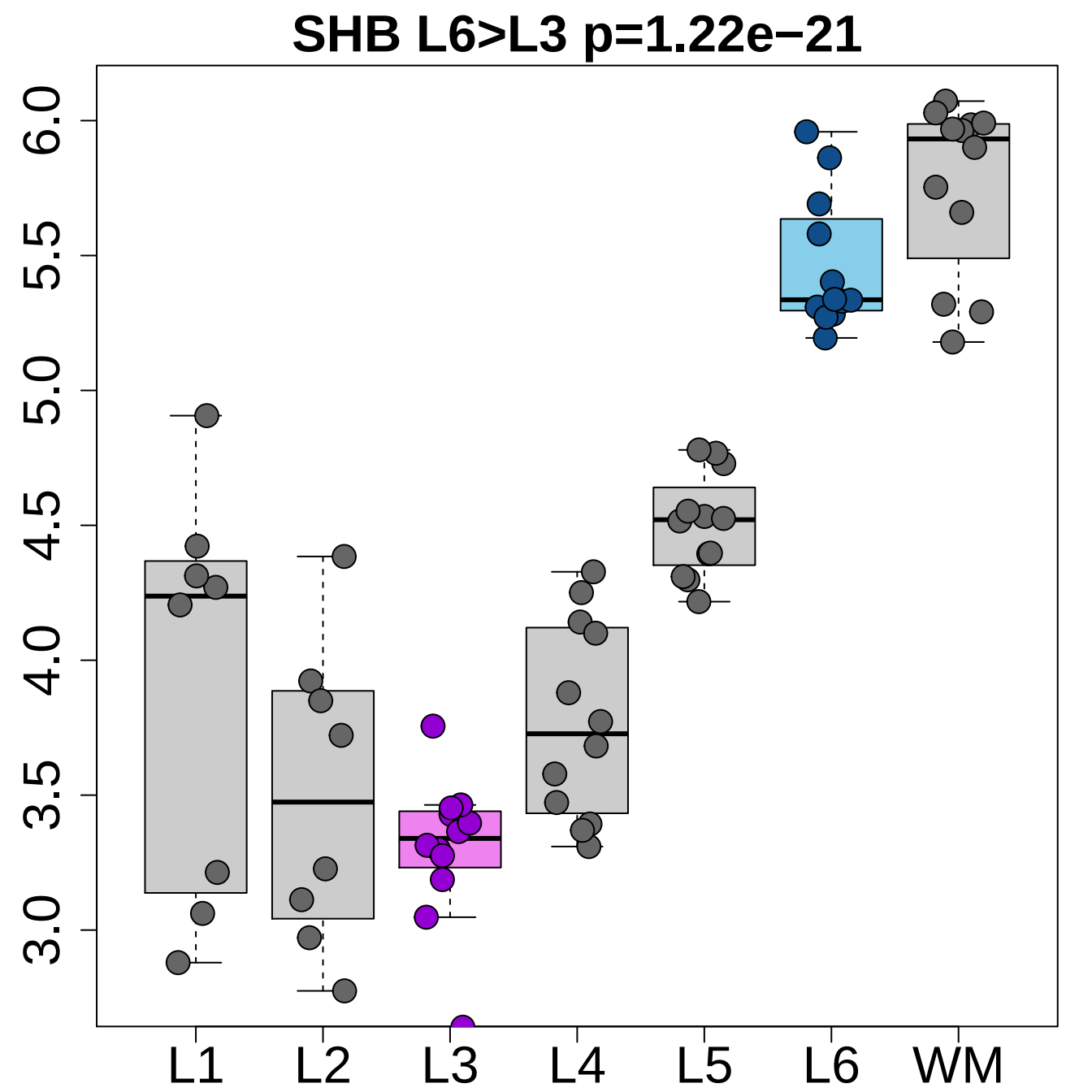
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM


SHB L6>L3 p=1.22e−21
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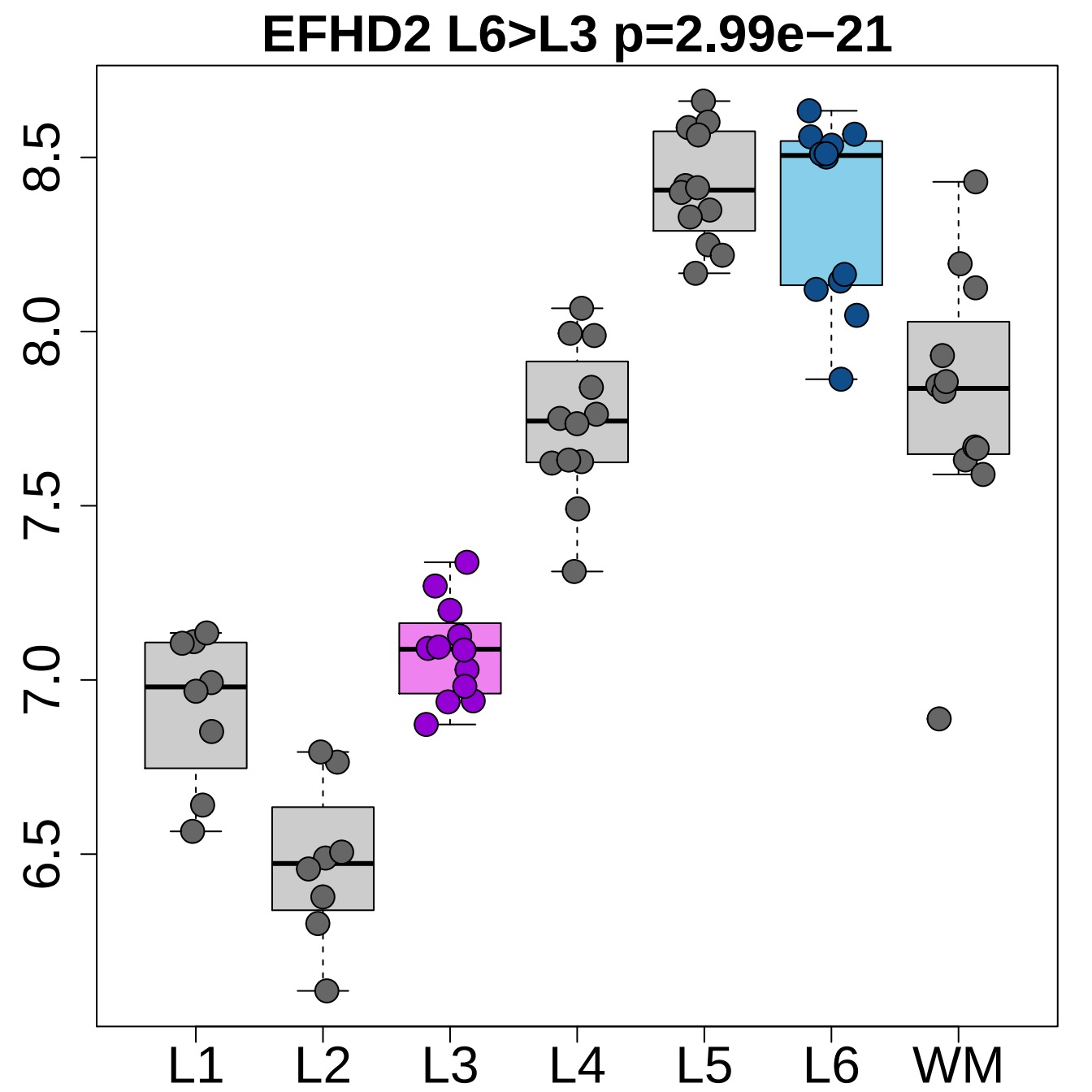
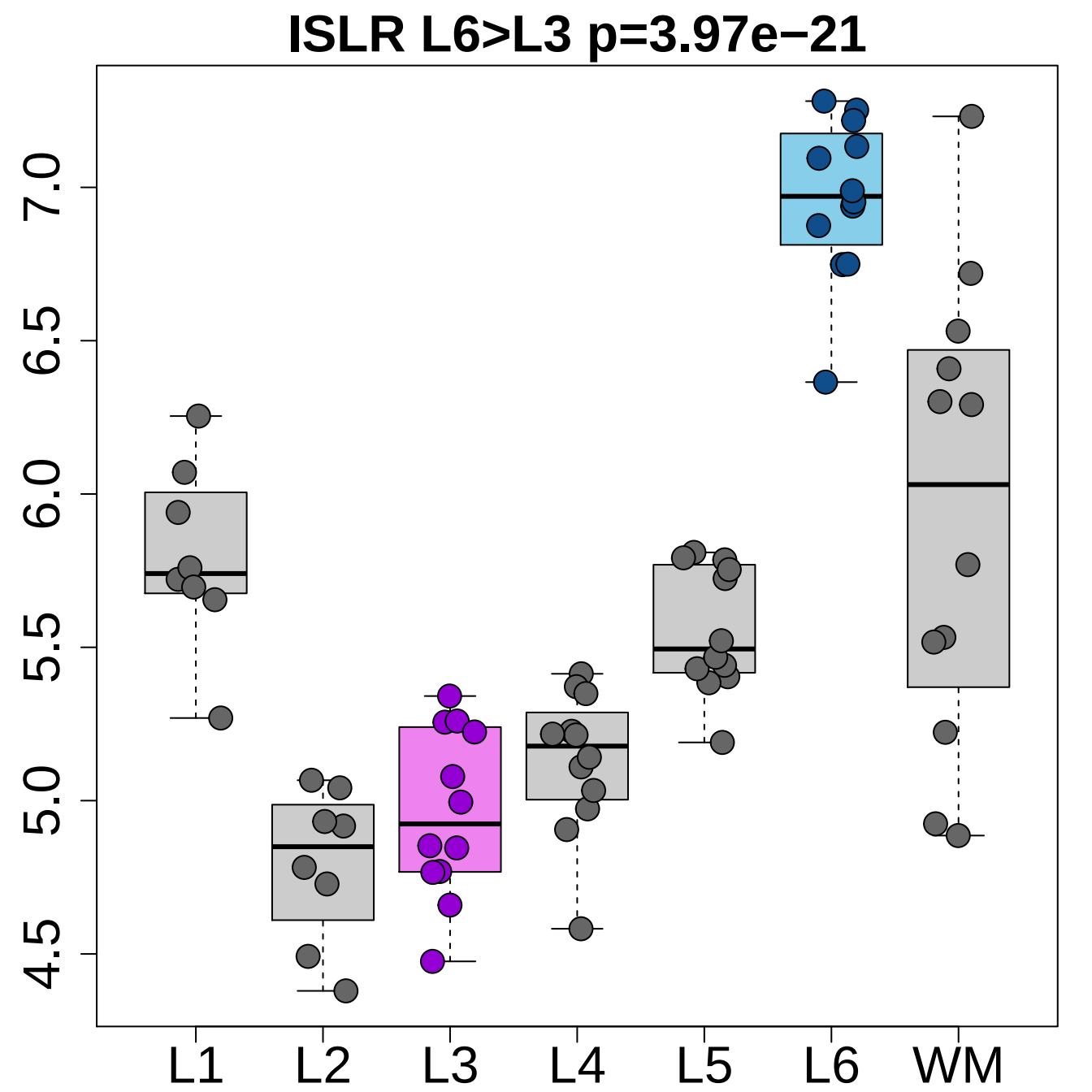
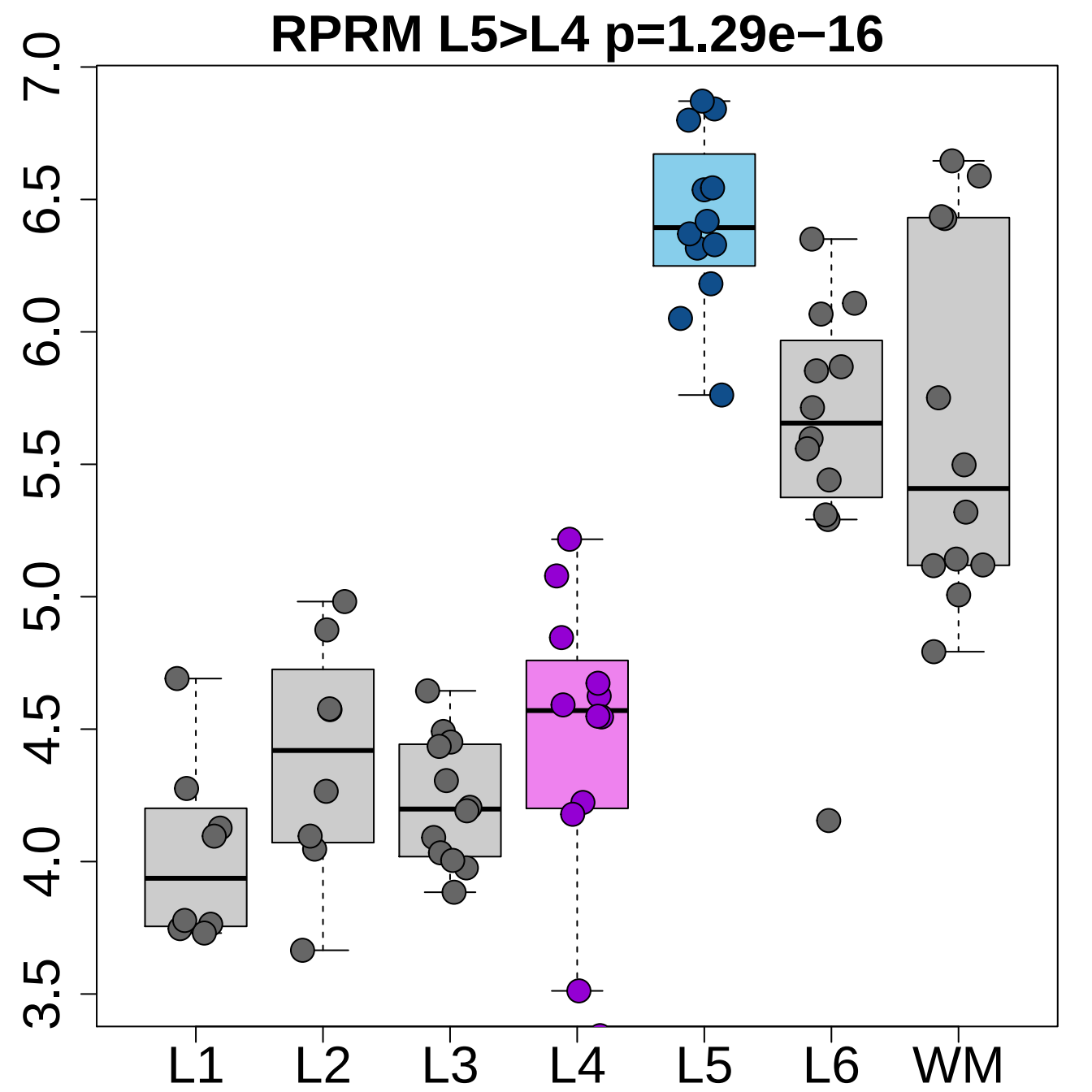
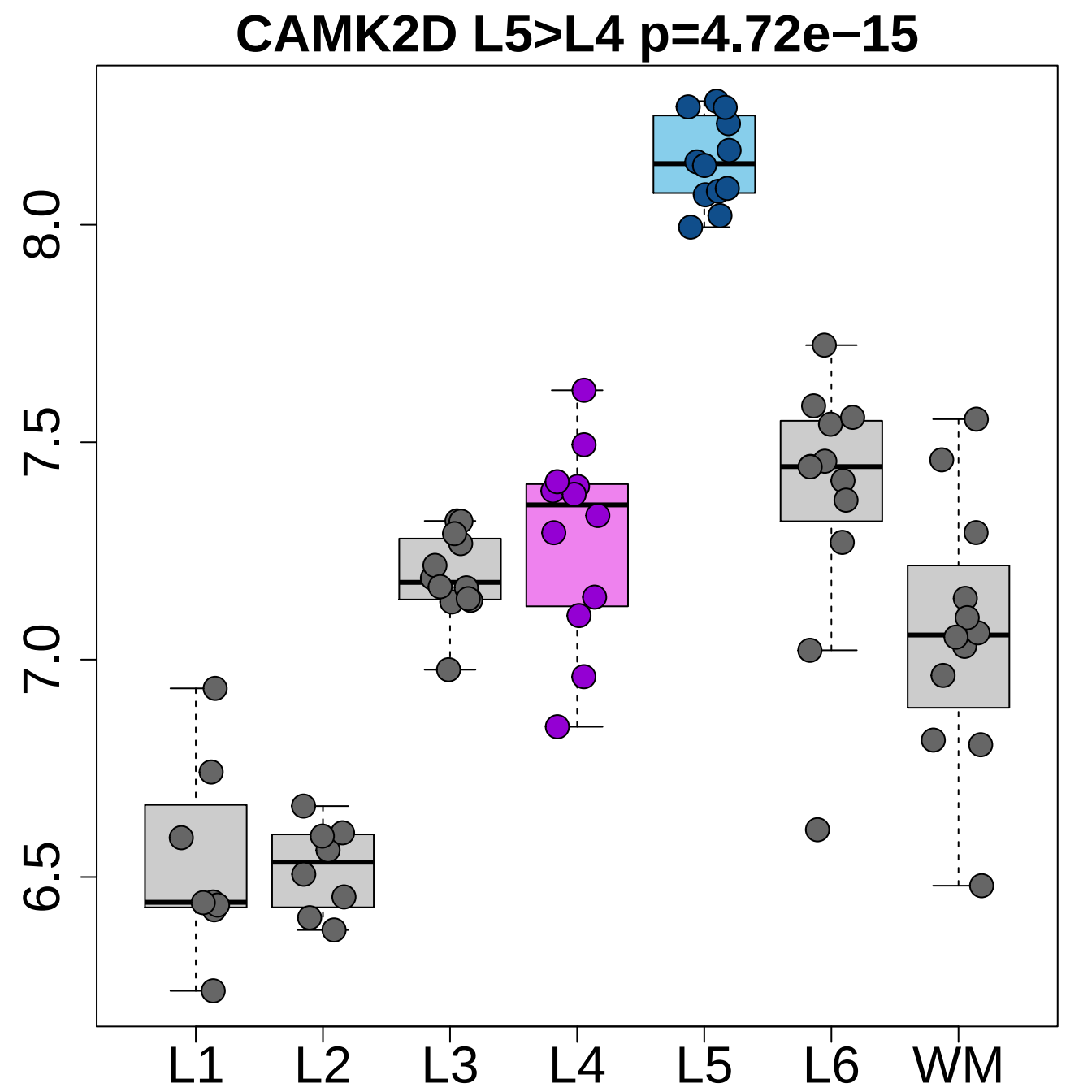
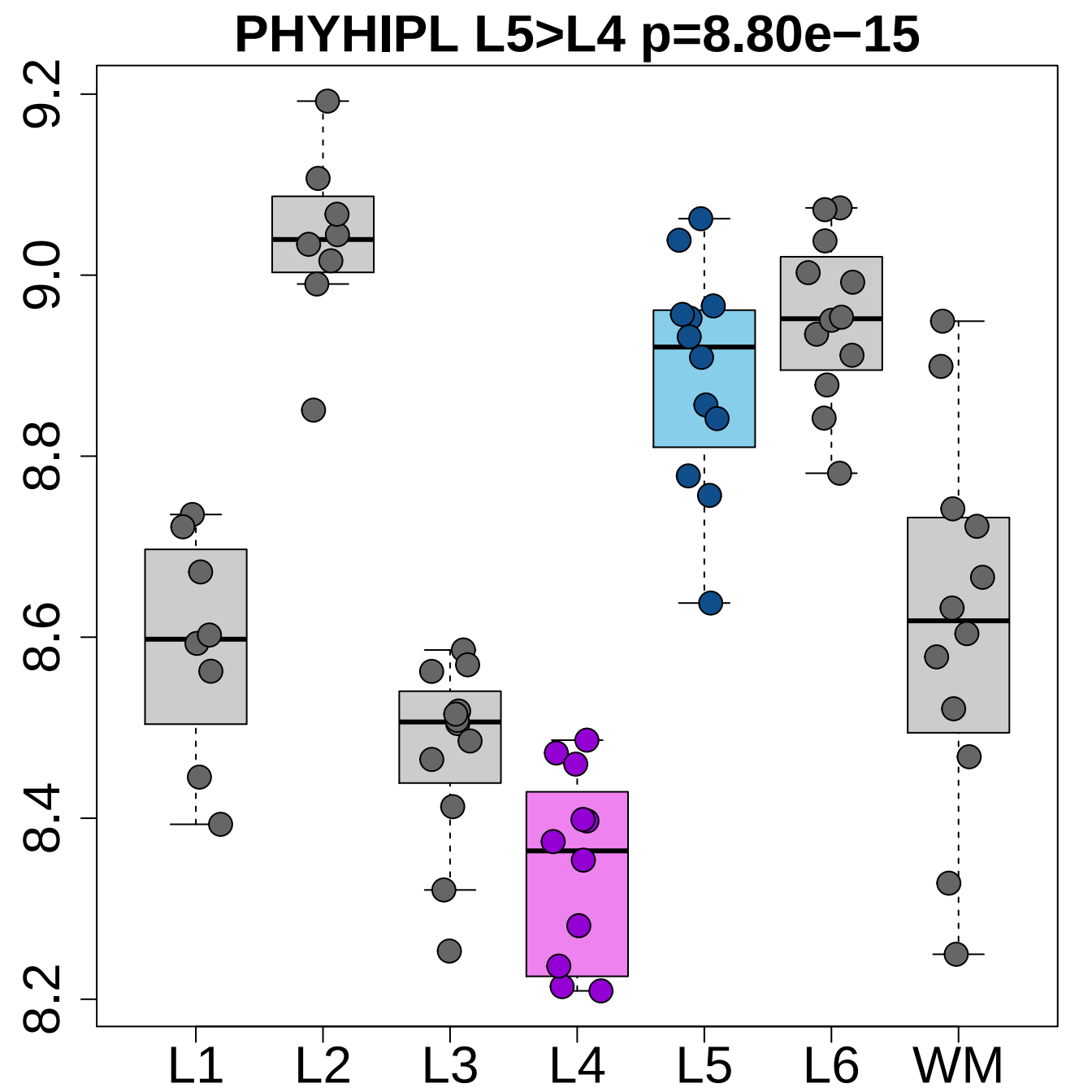
5.5
5.0
4.5
4.0
3.5
3.0
L1
L2
L3
L4
L5
L6
WM


EFHD2 L6>L3 p=2.99e−21
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


ISLR L6>L3 p=3.97e−21
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM


RPRM L5>L4 p=1.29e−16
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM


CAMK2D L5>L4 p=4.72e−15
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


PHYHIPL L5>L4 p=8.80e−15
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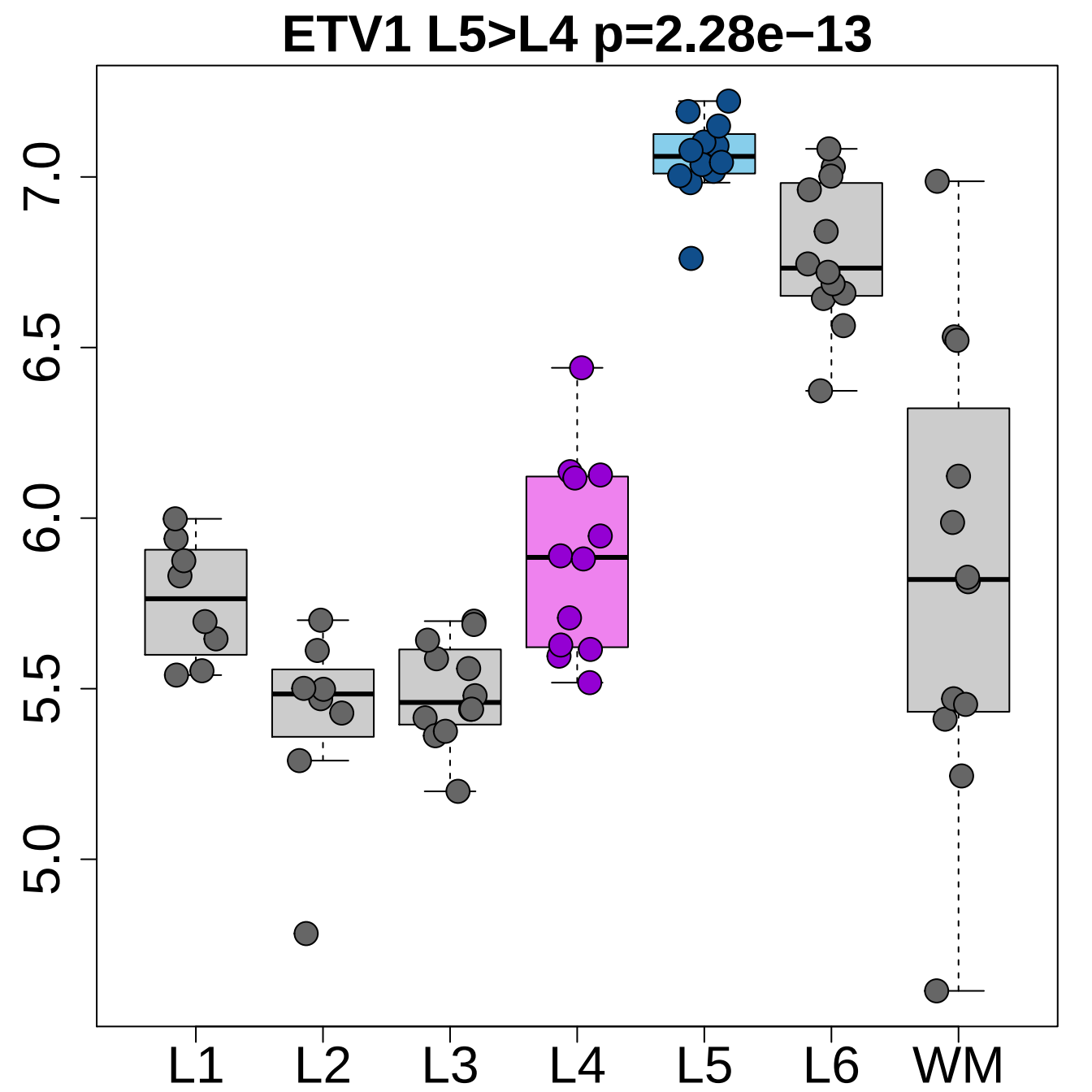
9.0
8.8
8.6
8.4
8.2
L1
L2
L3
L4
L5
L6
WM


ETV1 L5>L4 p=2.28e−13
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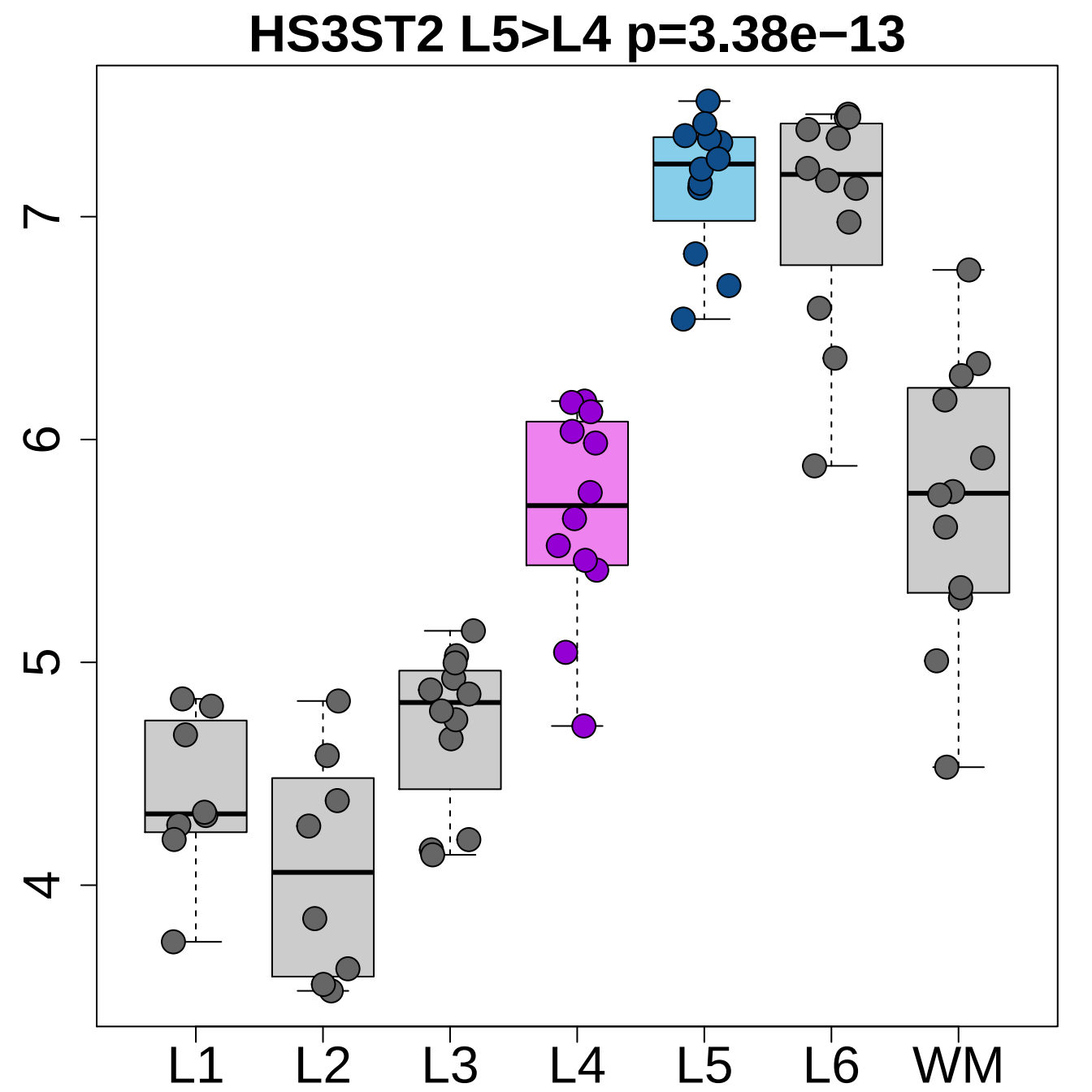
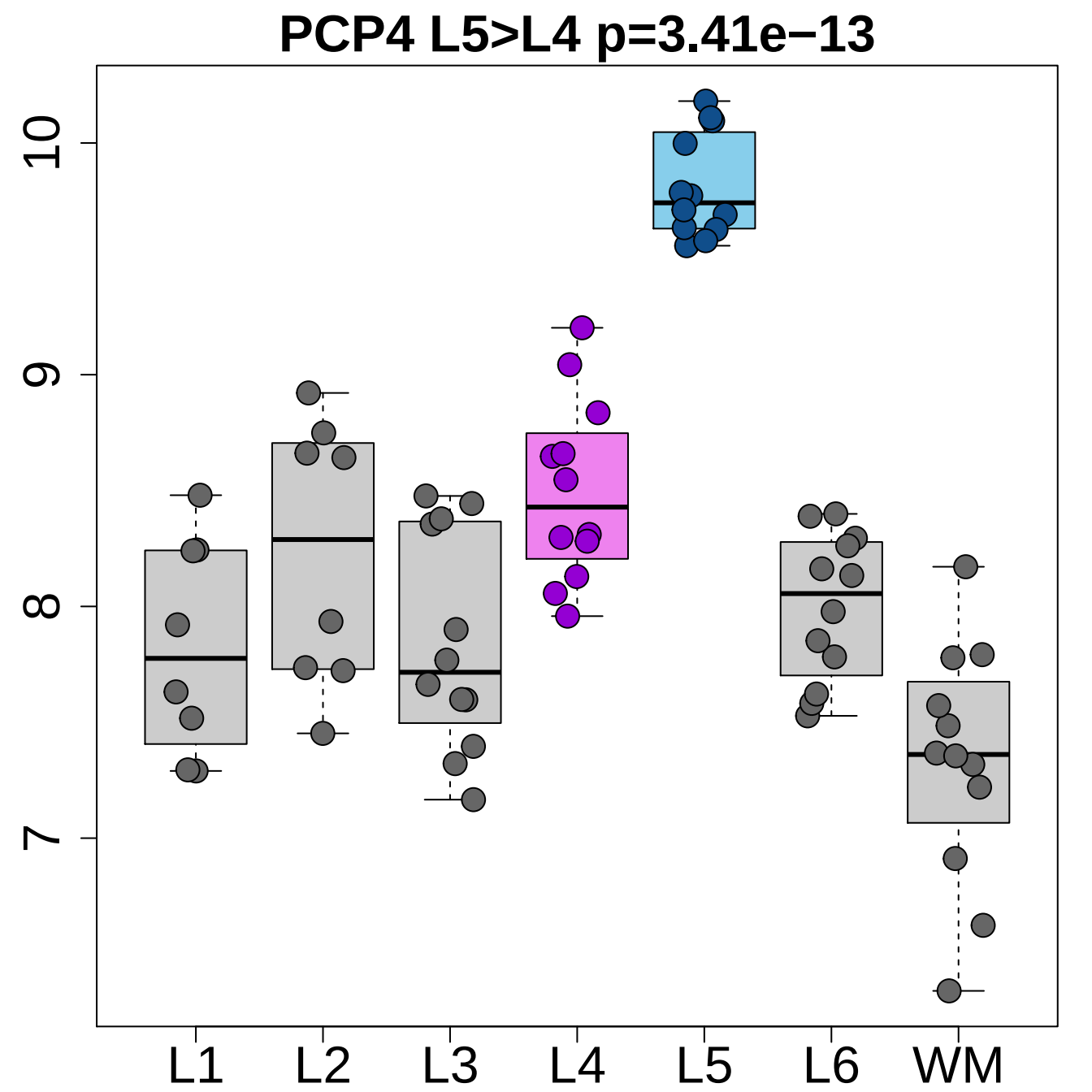
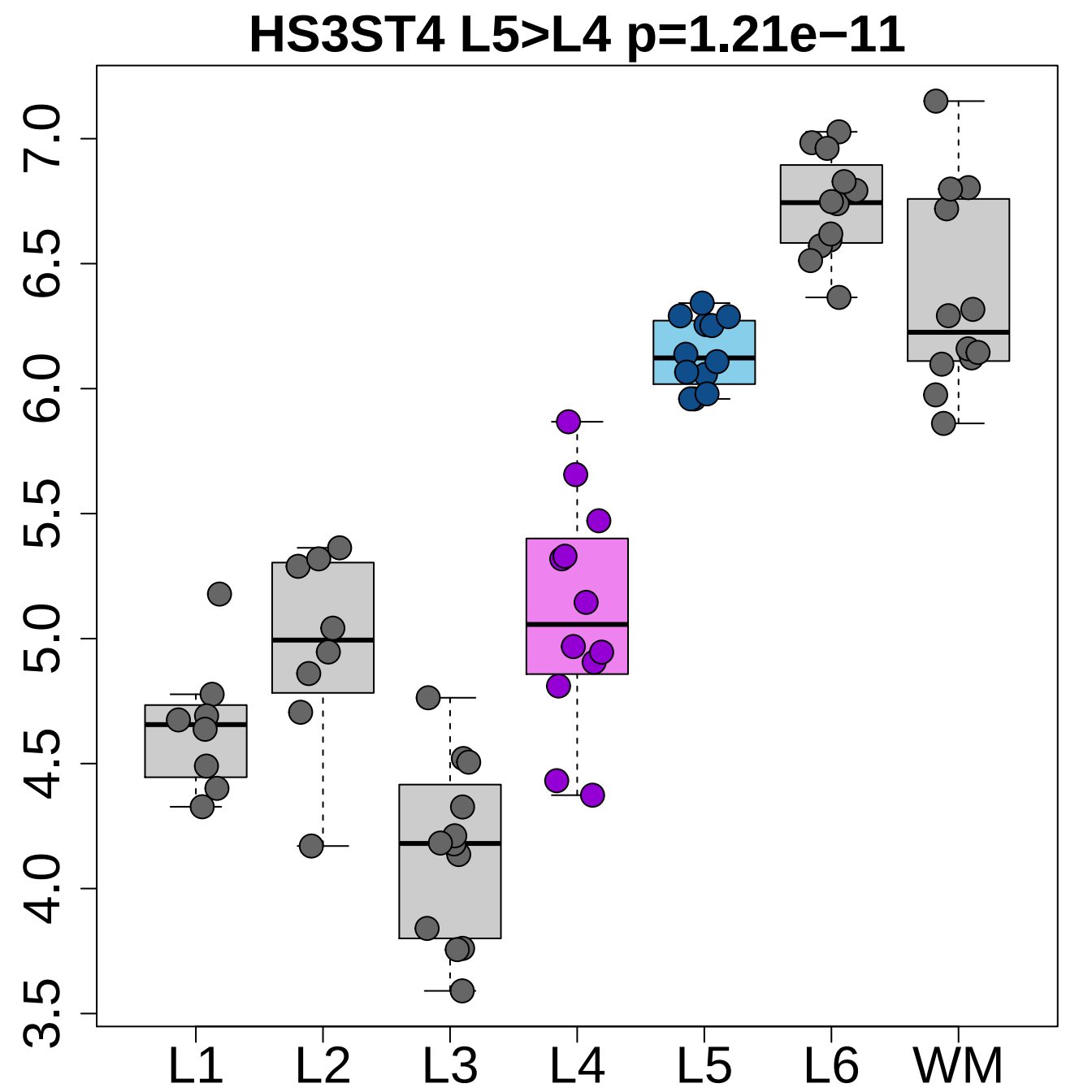
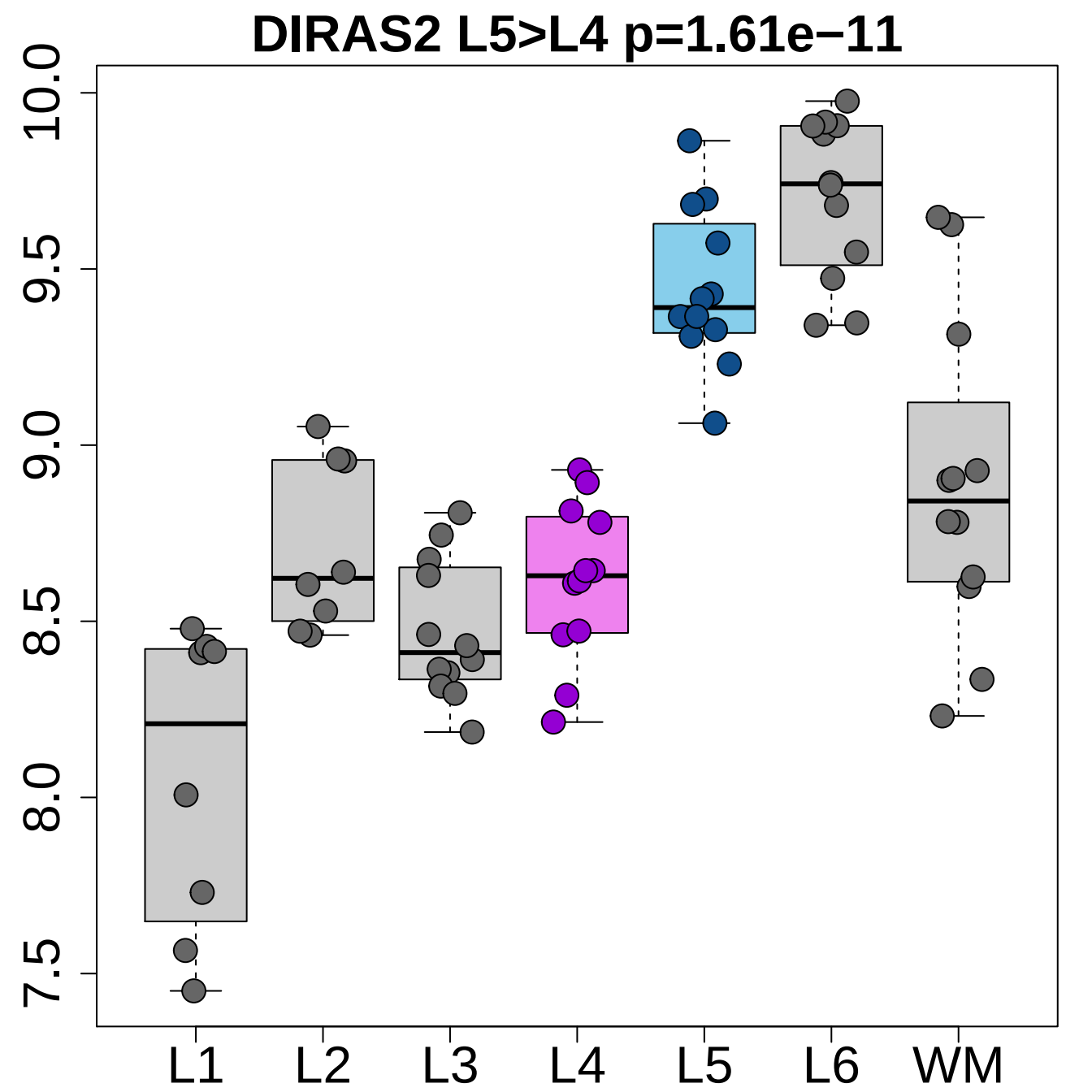
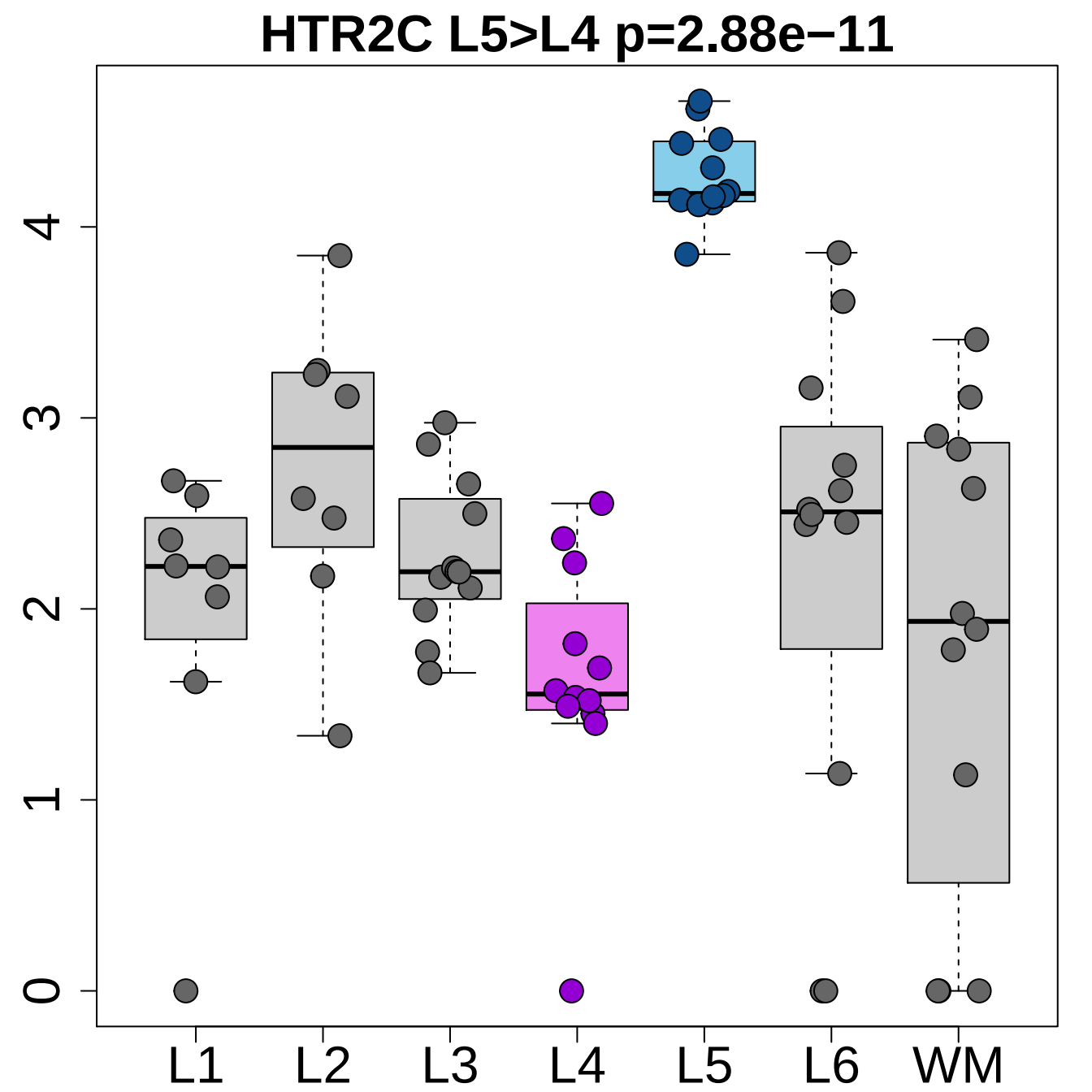
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

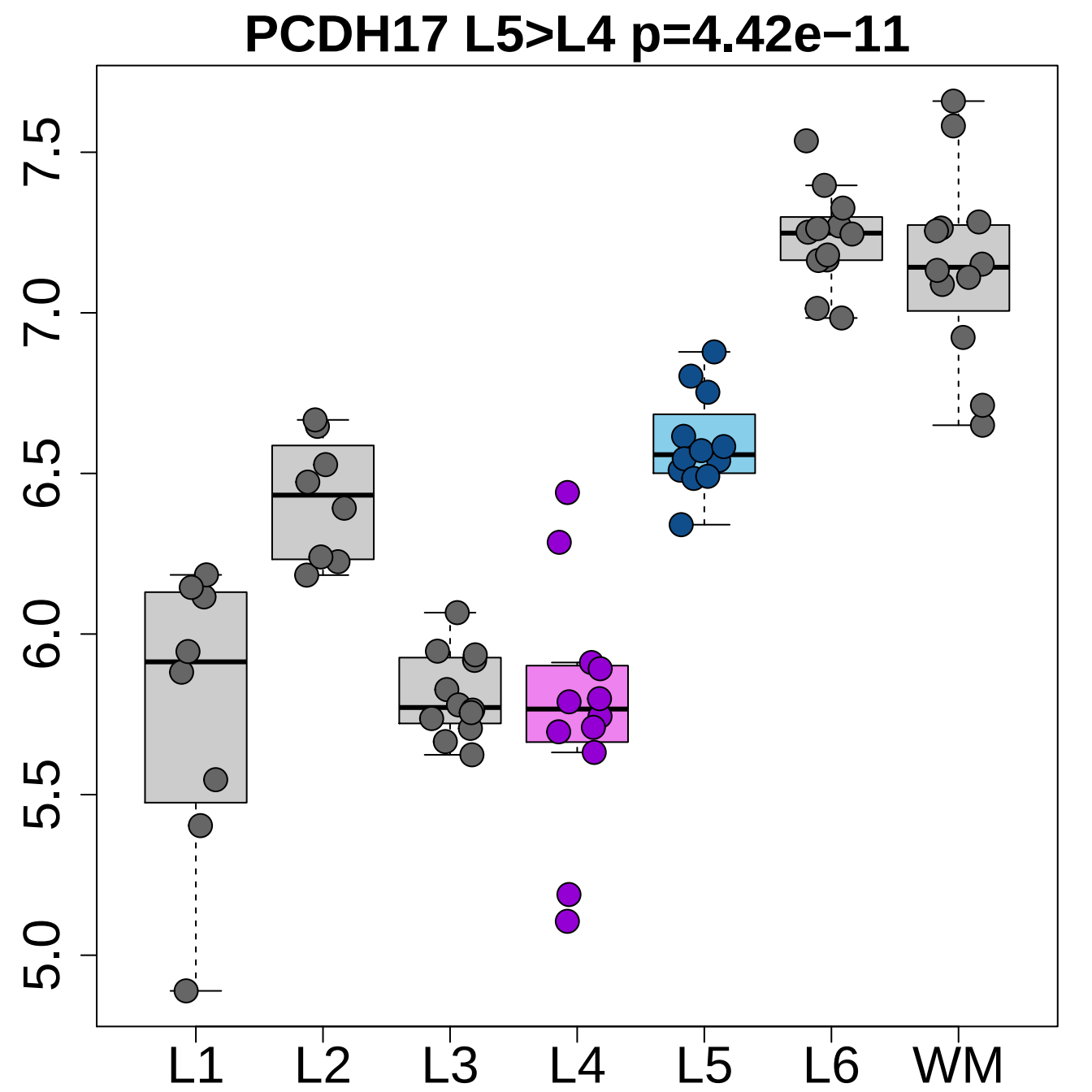

HS3ST2 L5>L4 p=3.38e−13
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

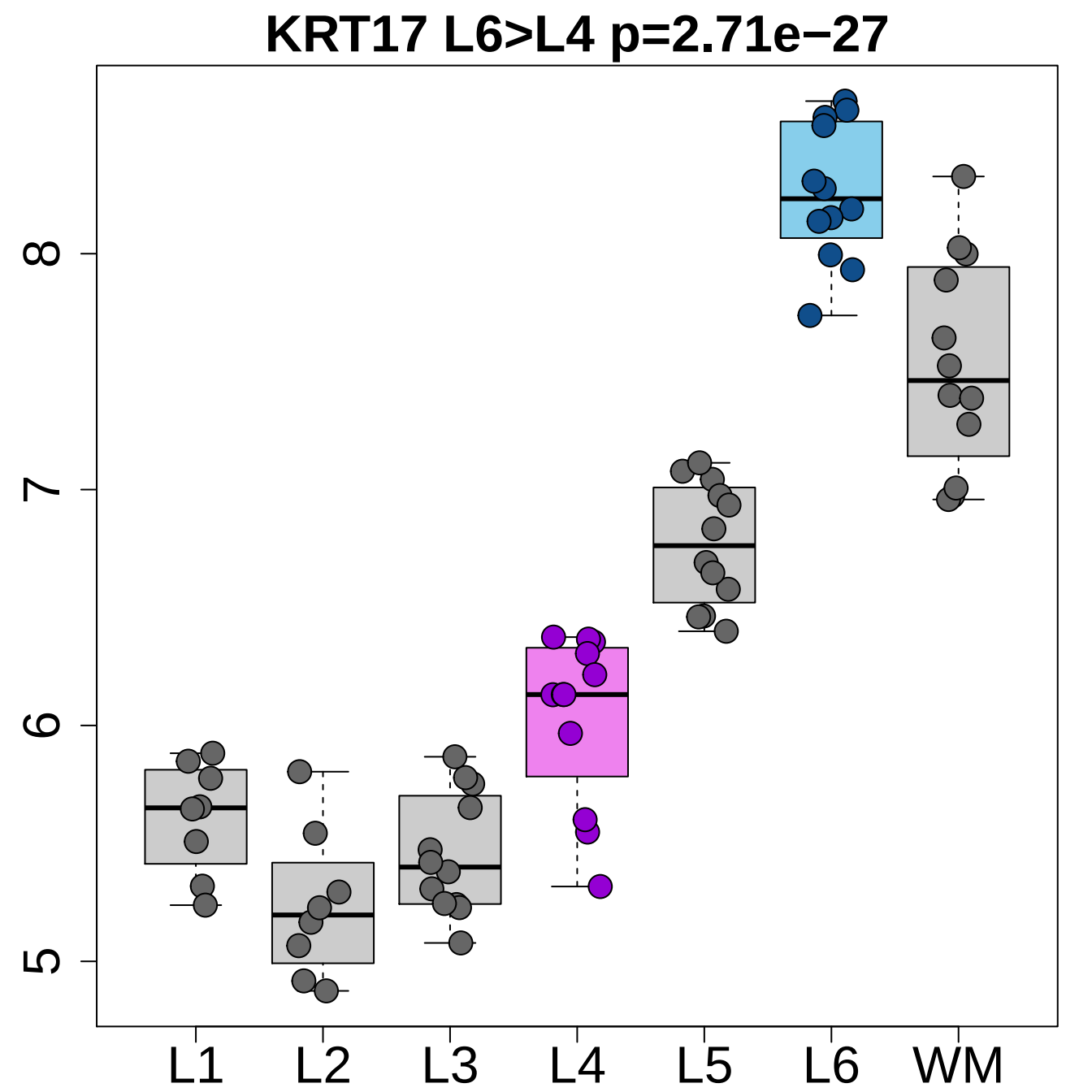

PCP4 L5>L4 p=3.41e−13
10
9
8
7
L1
L2
L3
L4
L5
L6
WM

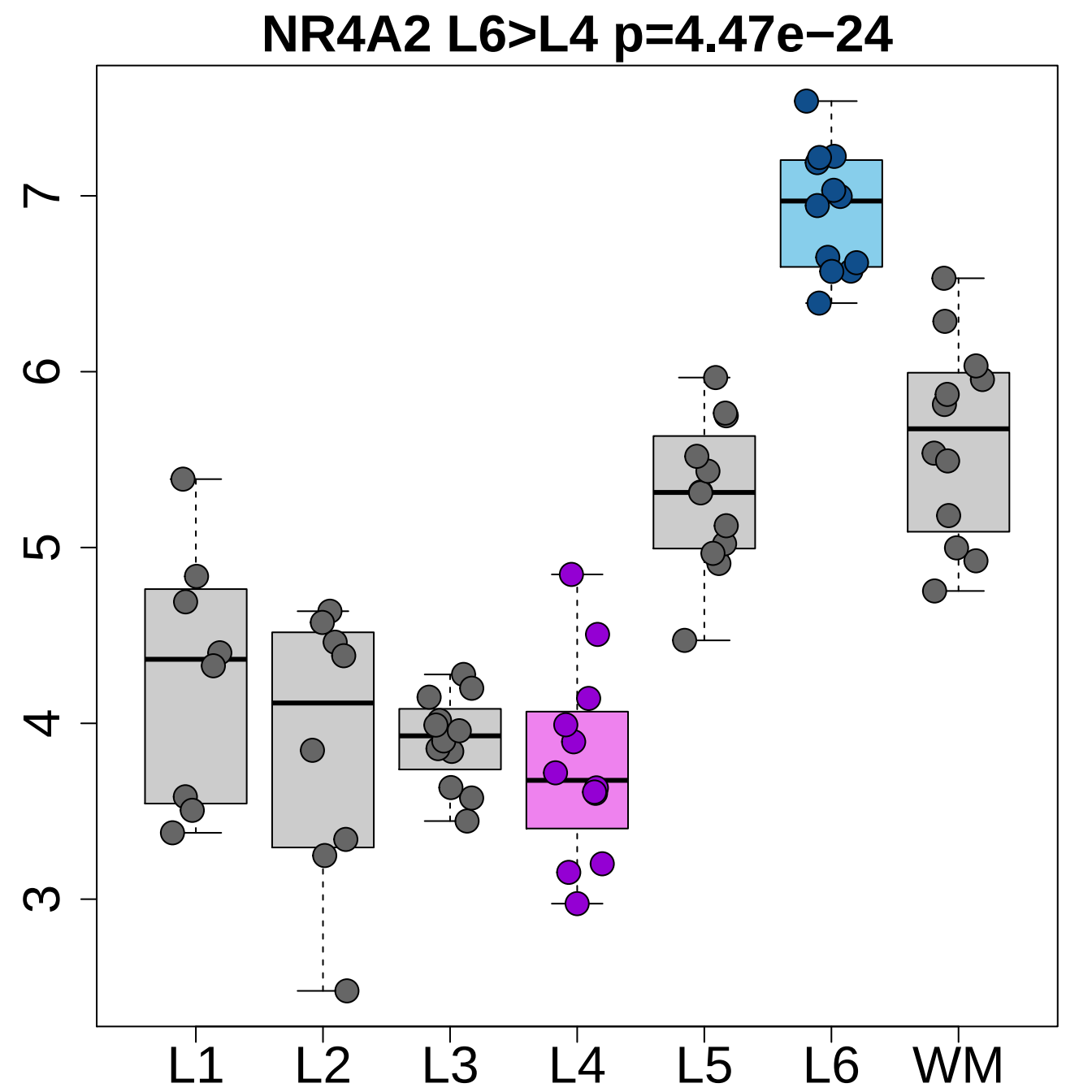

HS3ST4 L5>L4 p=1.21e−11
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM

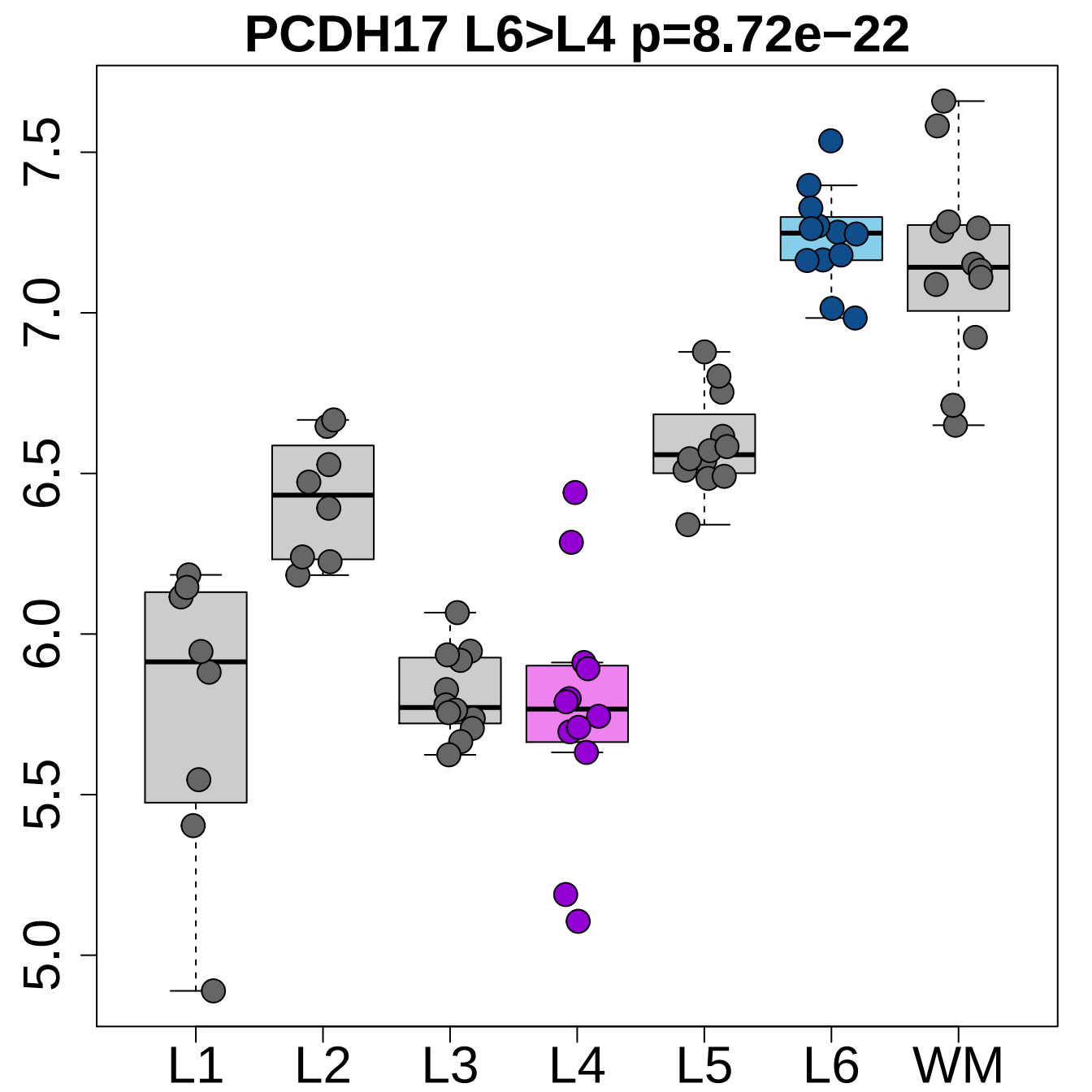

DIRAS2 L5>L4 p=1.61e−11
10.0
9.5
9.0
8.5
8.0
7.5
L1
L2
L3
L4
L5
L6
WM

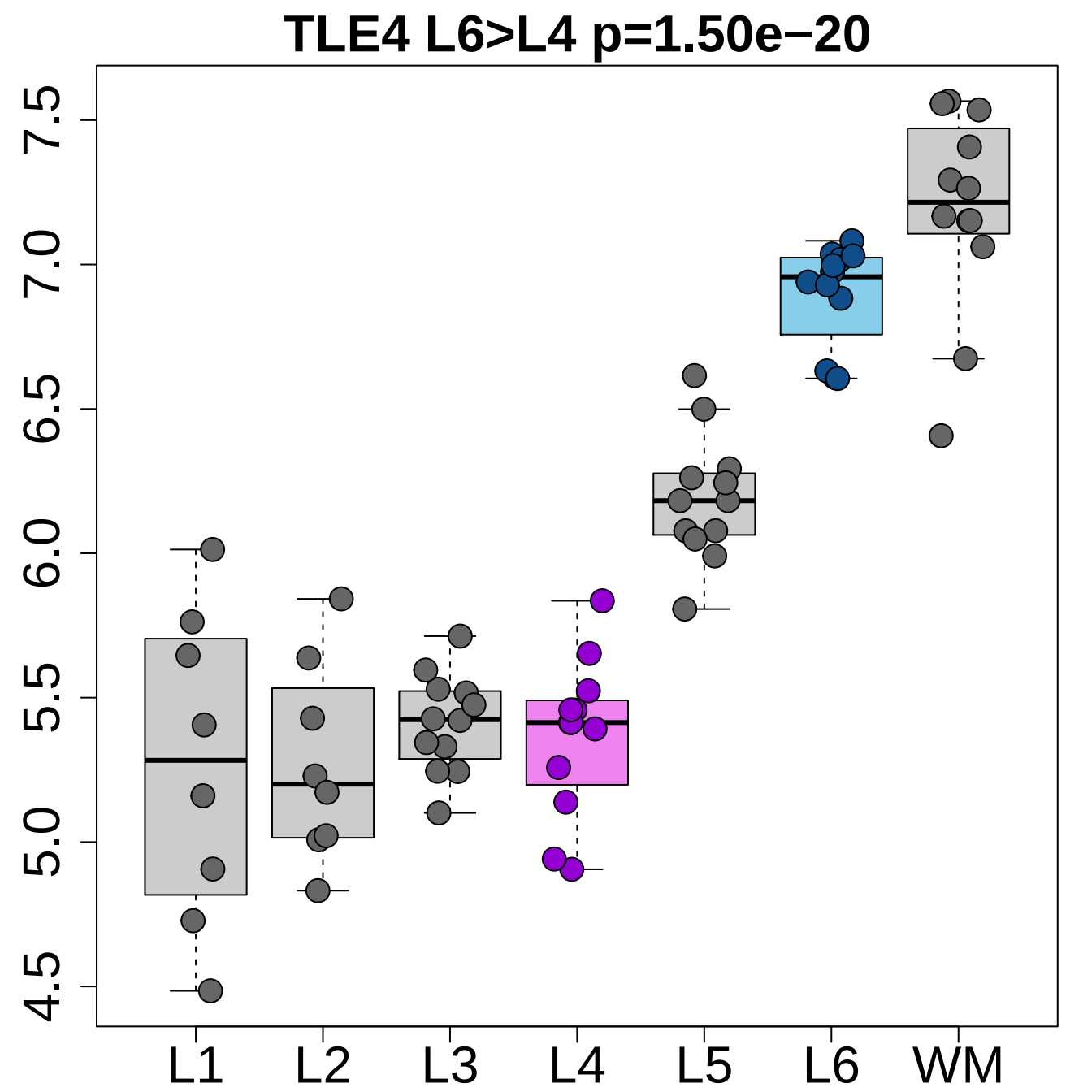

HTR2C L5>L4 p=2.88e−11
0
1
2
3
4
L1
L2
L3
L4
L5
L6
WM

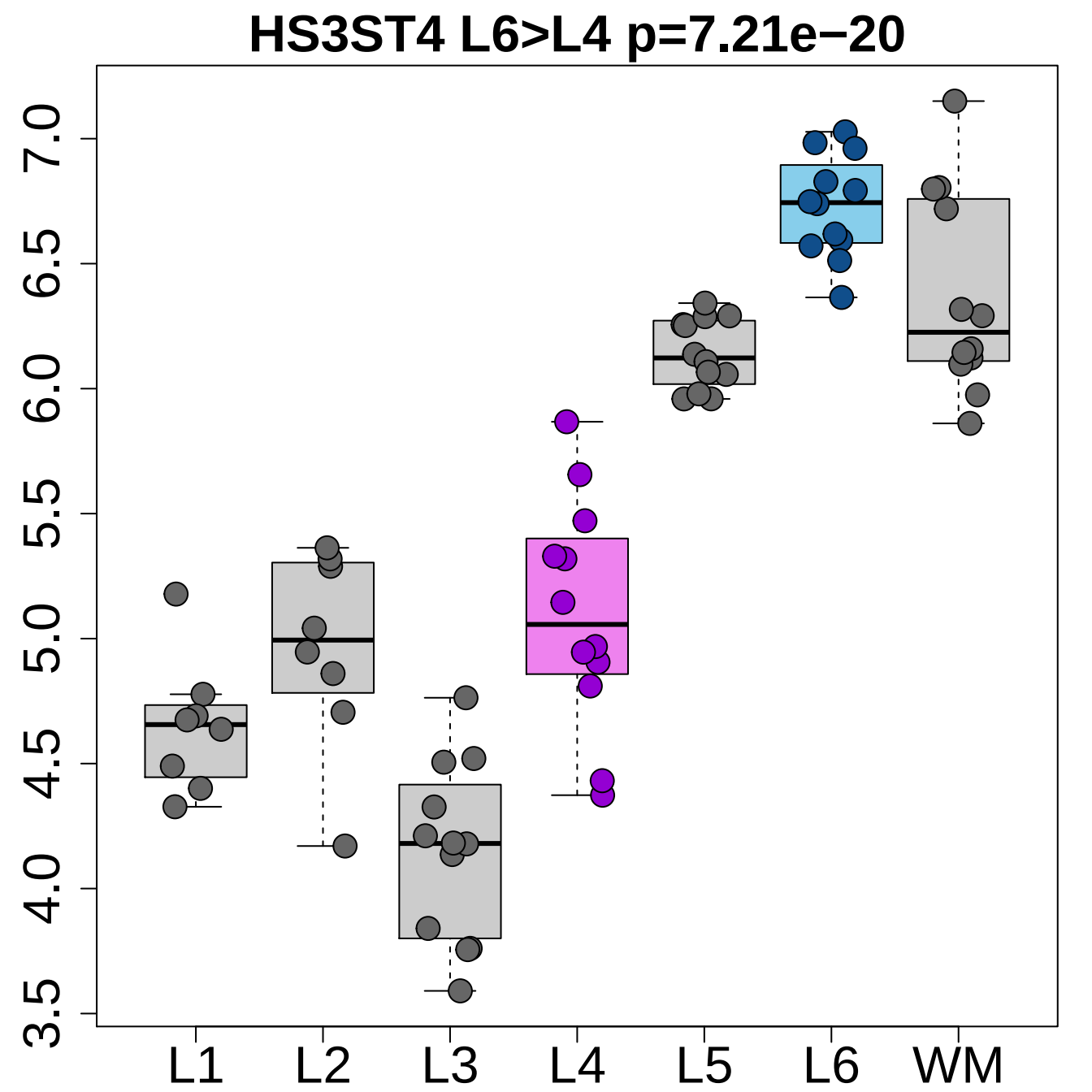

PCDH17 L5>L4 p=4.42e−11
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

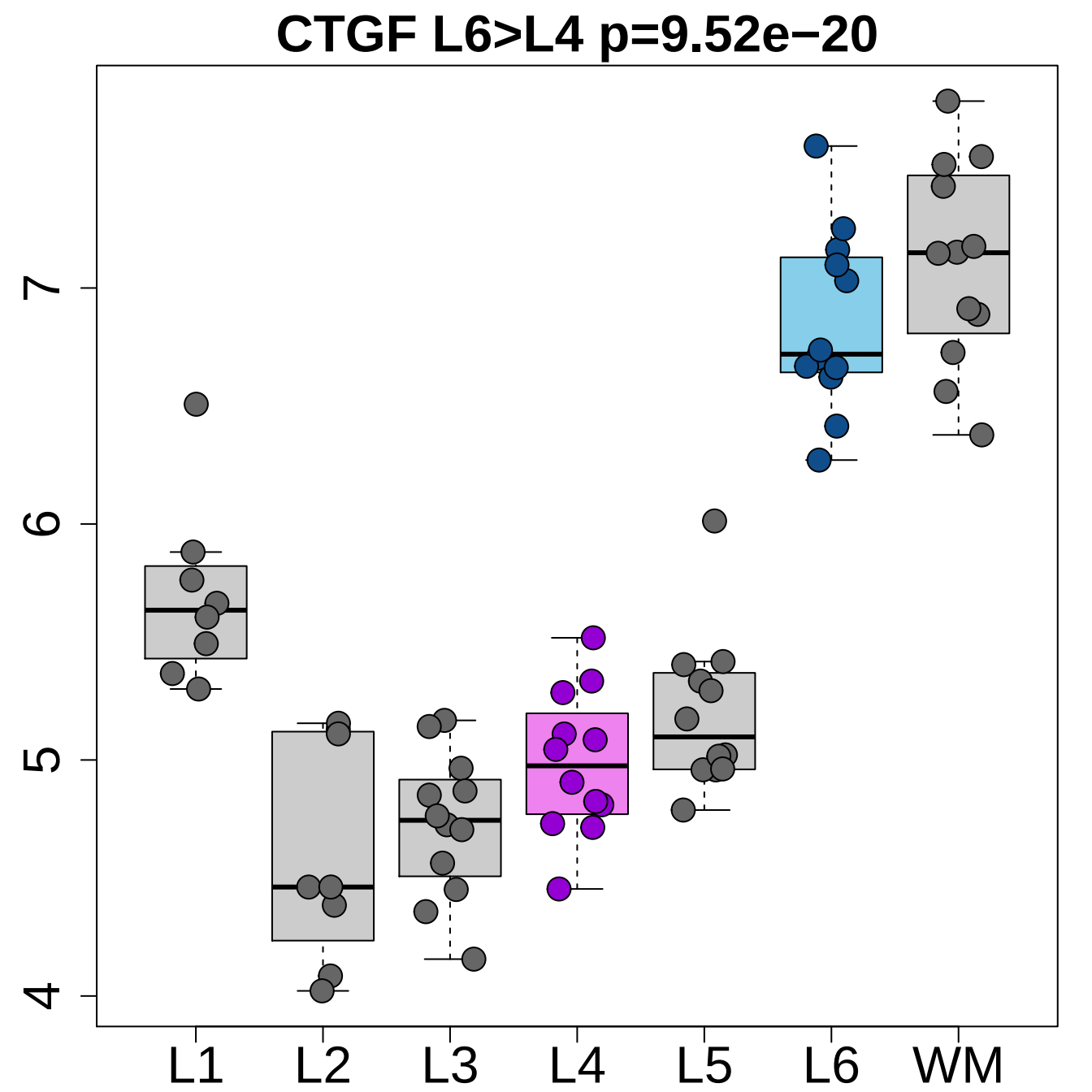

KRT17 L6>L4 p=2.71e−27
8
7
6
5
L1
L2
L3
L4
L5
L6
WM

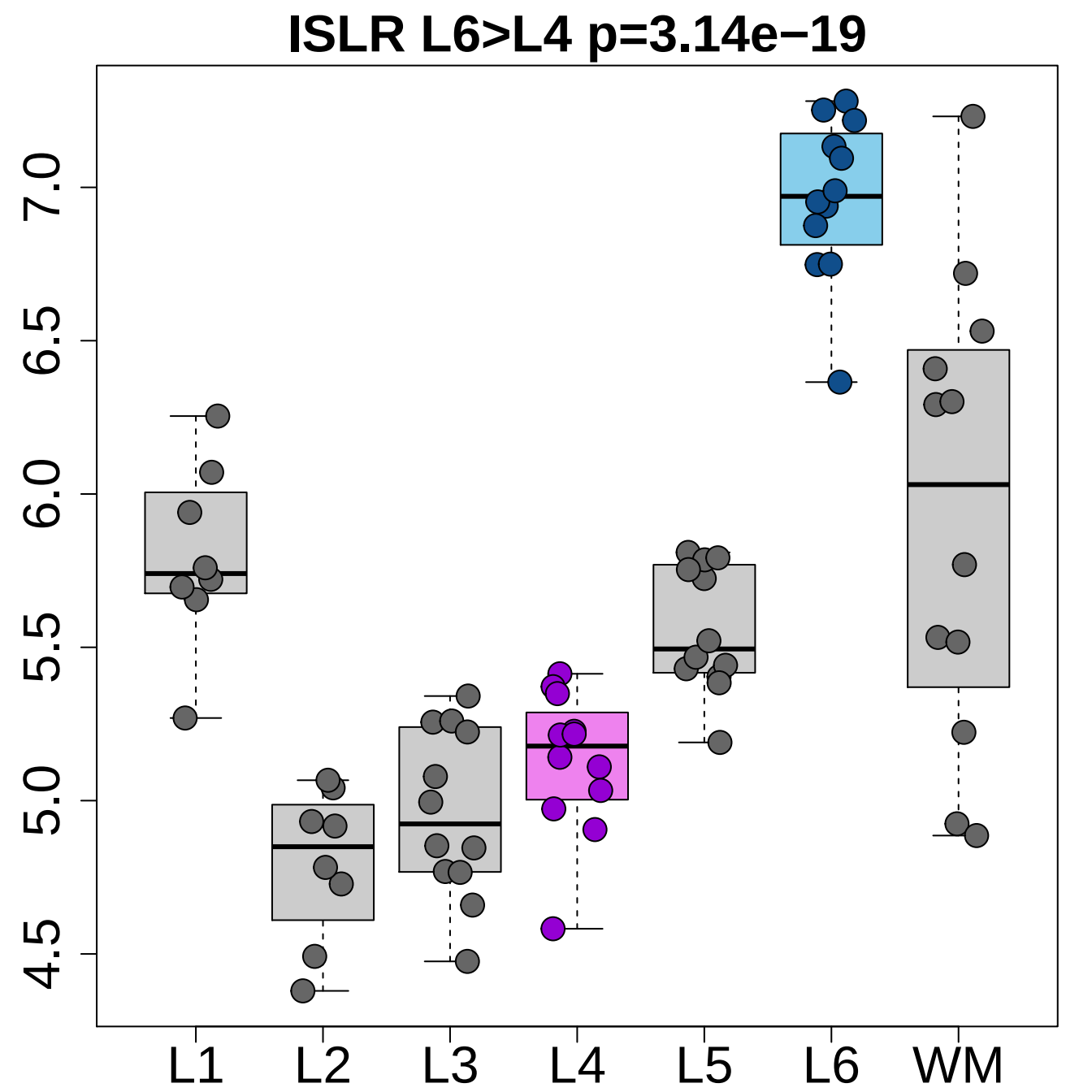

NR4A2 L6>L4 p=4.47e−24
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM

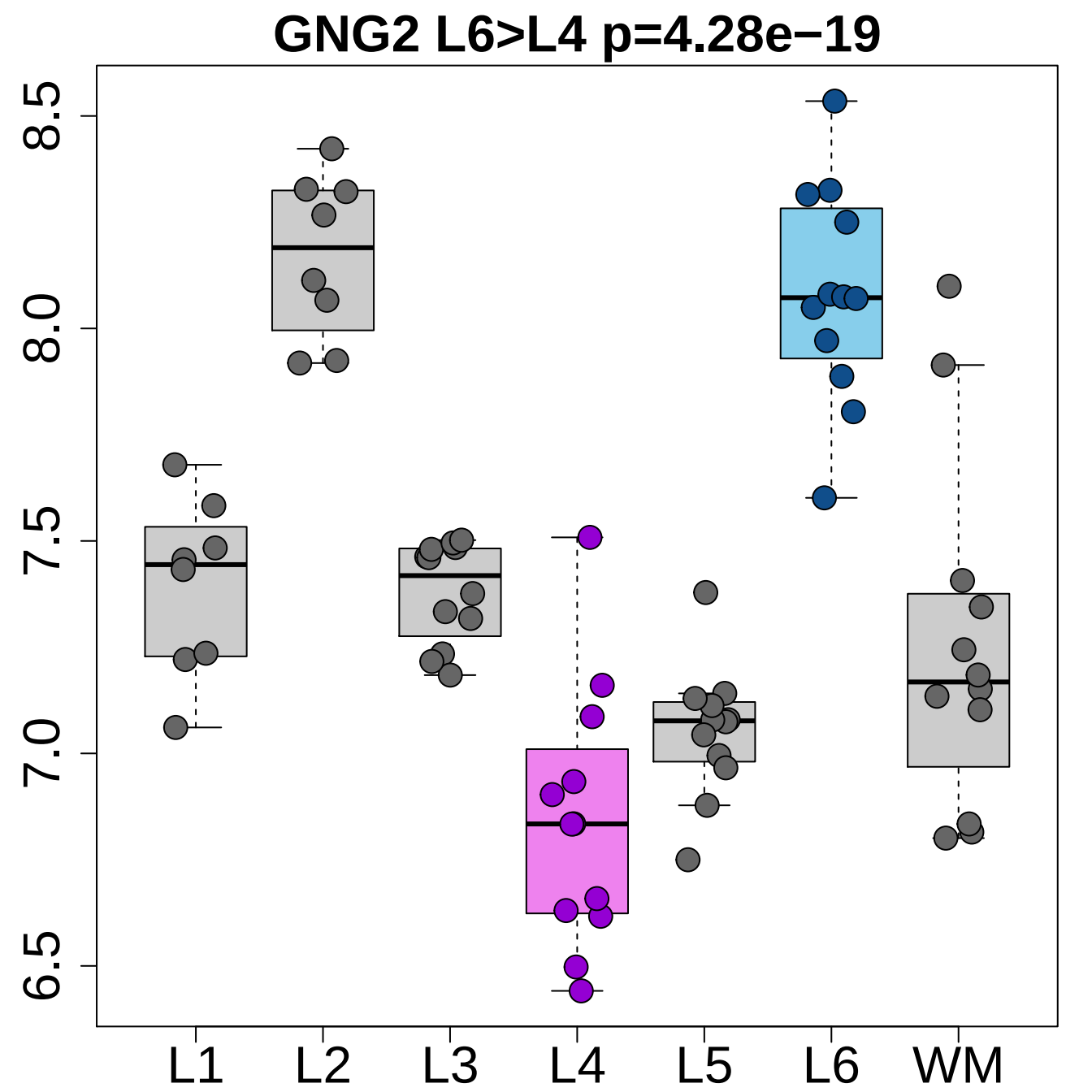

PCDH17 L6>L4 p=8.72e−22
7.5
7.0
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM

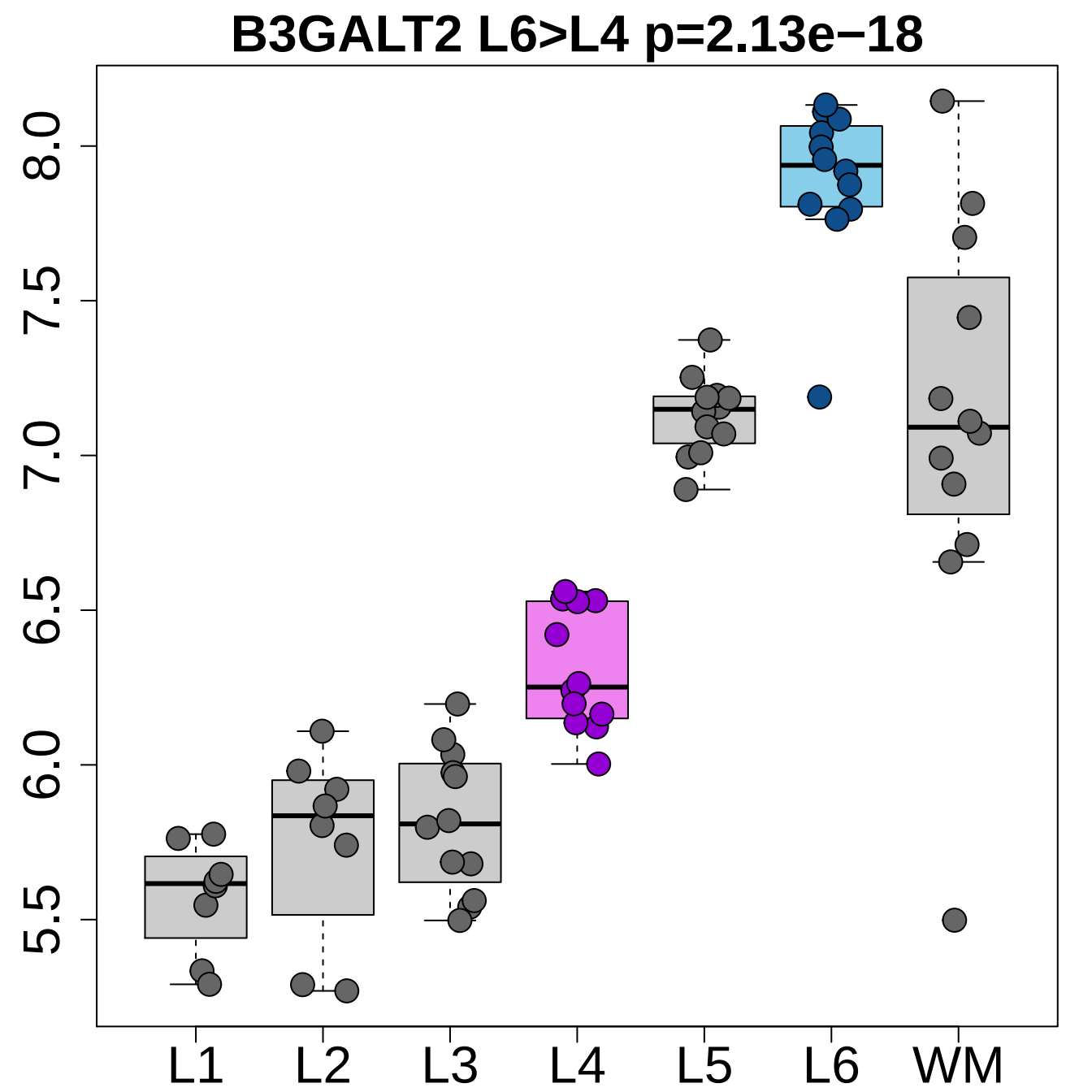

TLE4 L6>L4 p=1.50e−20
7.5
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM

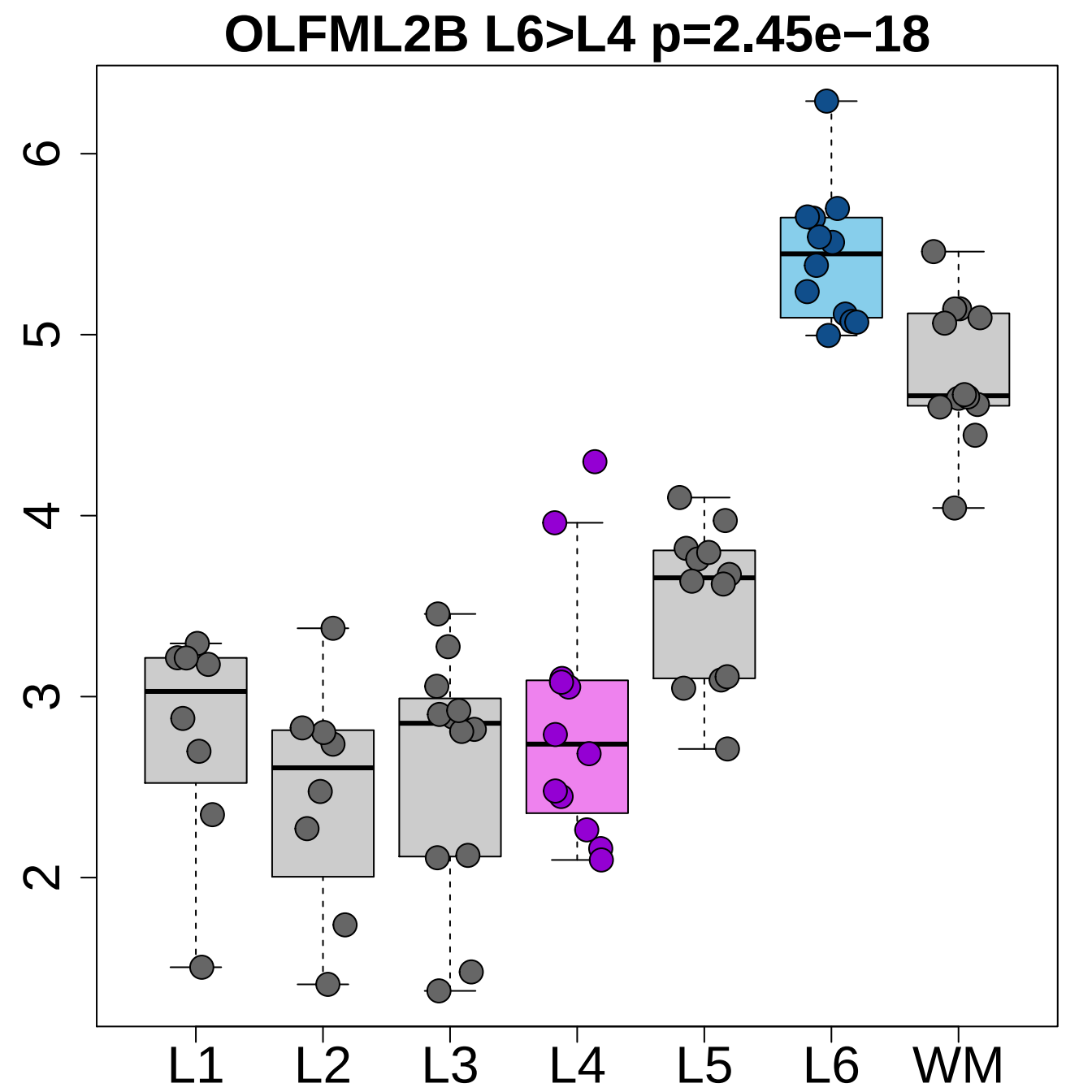

HS3ST4 L6>L4 p=7.21e−20
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
L1
L2
L3
L4
L5
L6
WM

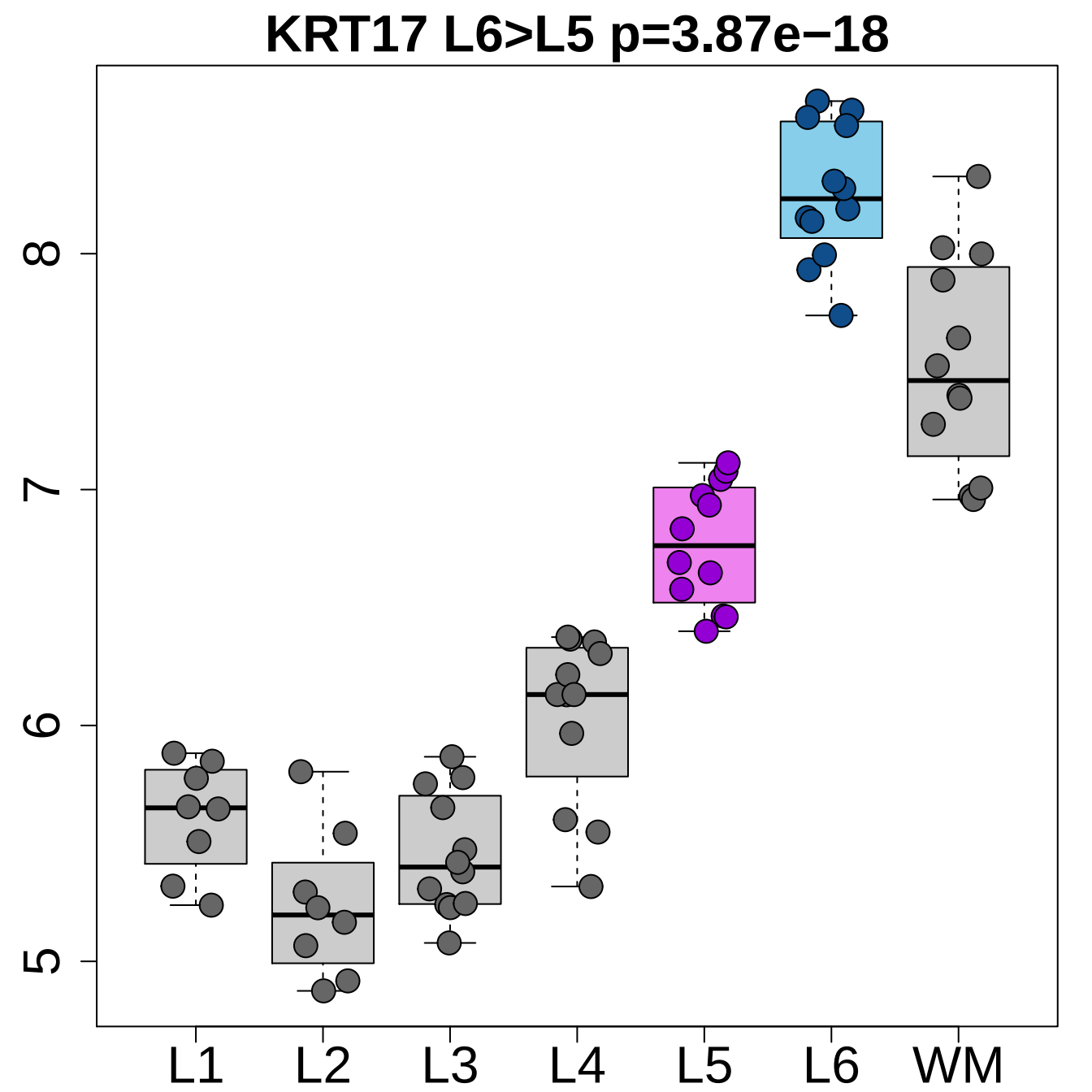

CTGF L6>L4 p=9.52e−20
7
6
5
4
L1
L2
L3
L4
L5
L6
WM

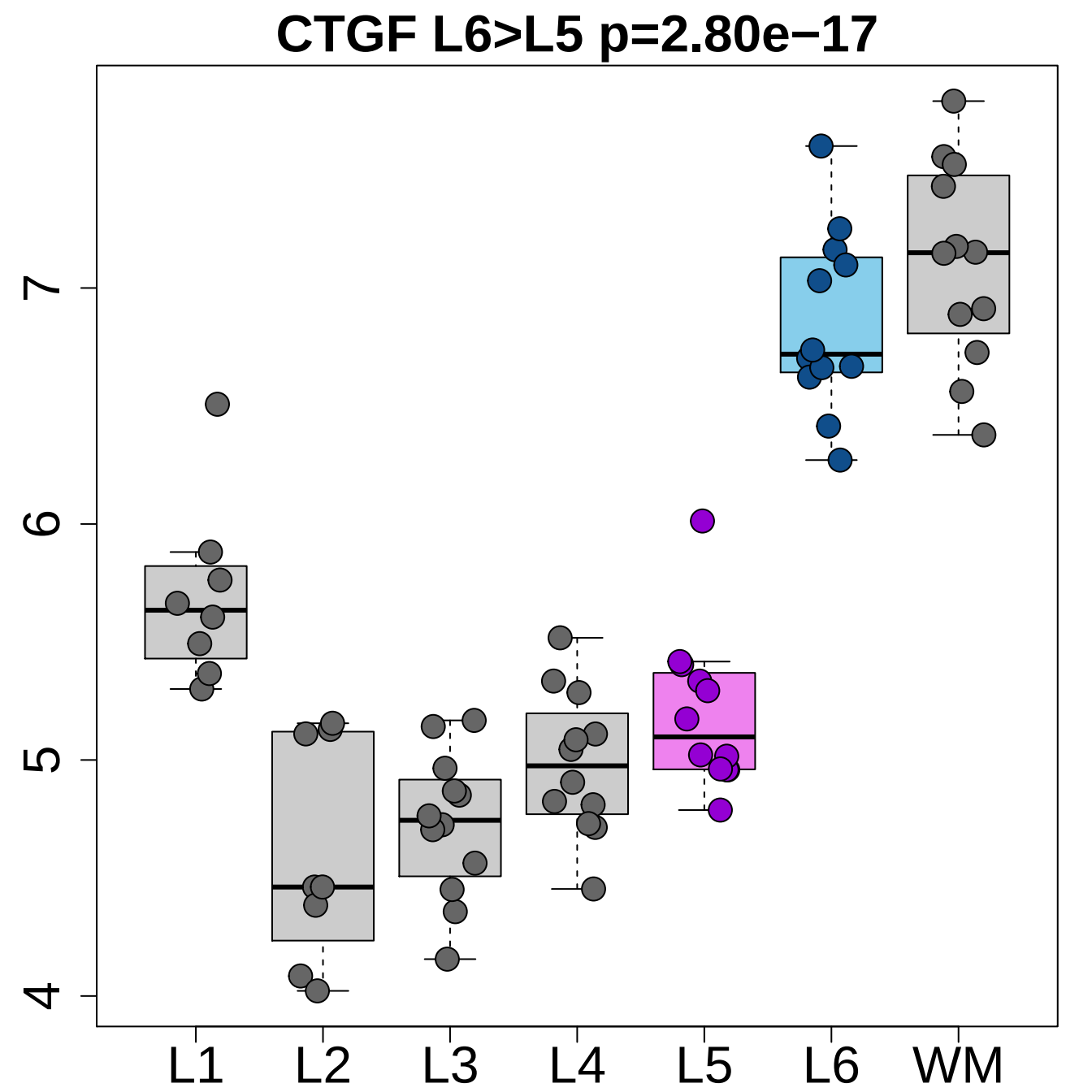

ISLR L6>L4 p=3.14e−19
7.0
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM

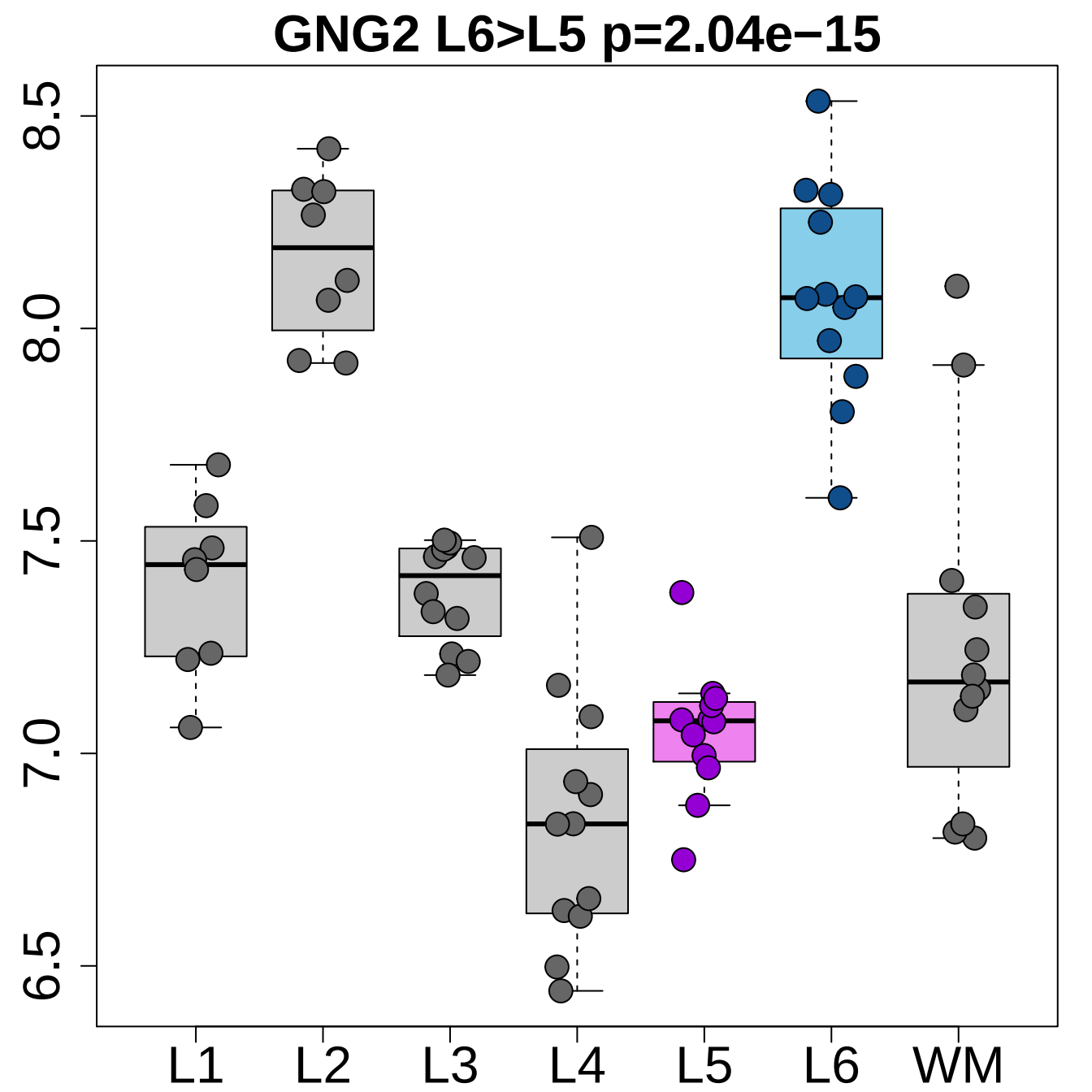

GNG2 L6>L4 p=4.28e−19
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM

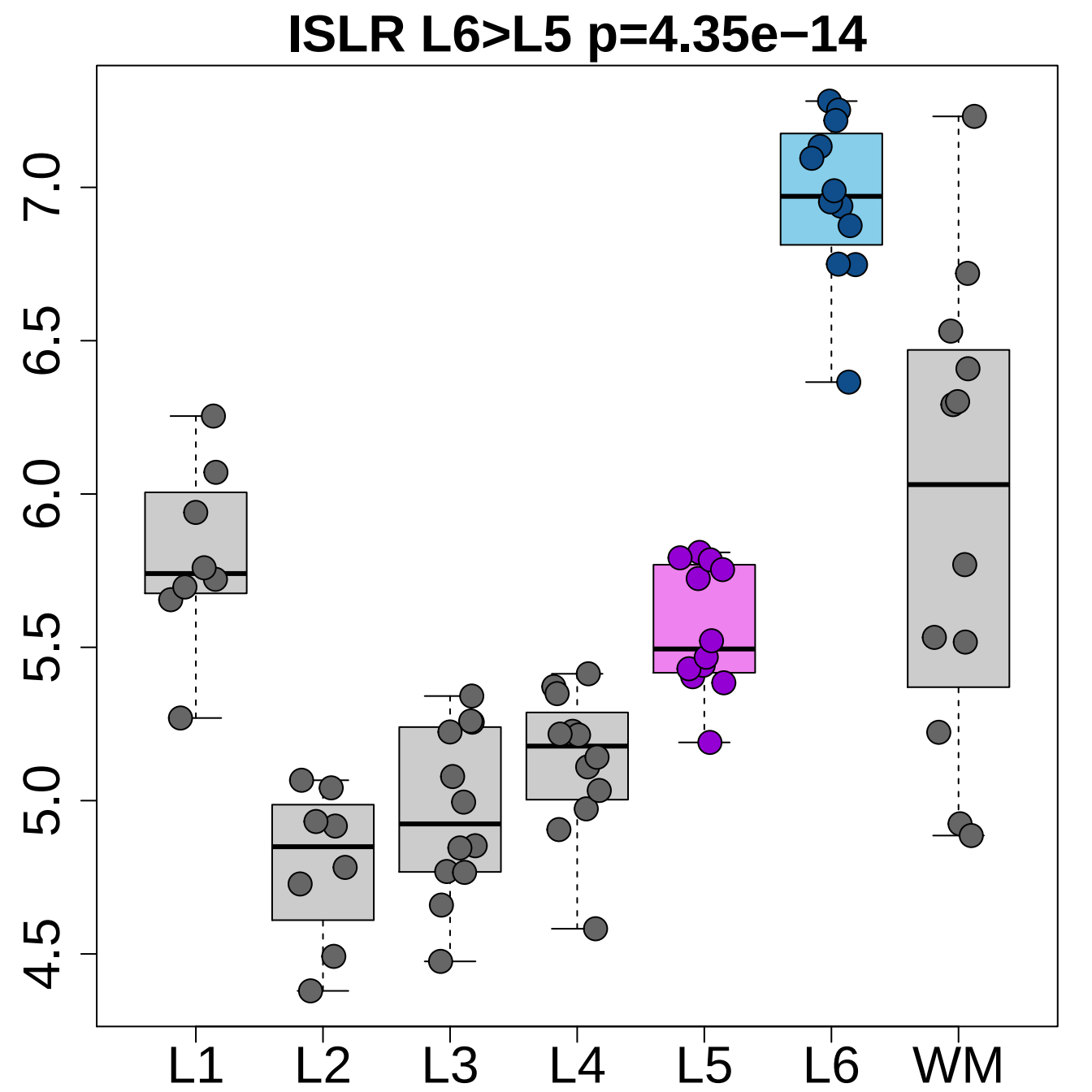

B3GALT2 L6>L4 p=2.13e−18
8.0
7.5
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


OLFML2B L6>L4 p=2.45e−18
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM


KRT17 L6>L5 p=3.87e−18
8
7
6
5
L1
L2
L3
L4
L5
L6
WM


CTGF L6>L5 p=2.80e−17
7
6
5
4
L1
L2
L3
L4
L5
L6
WM


GNG2 L6>L5 p=2.04e−15
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


ISLR L6>L5 p=4.35e−14
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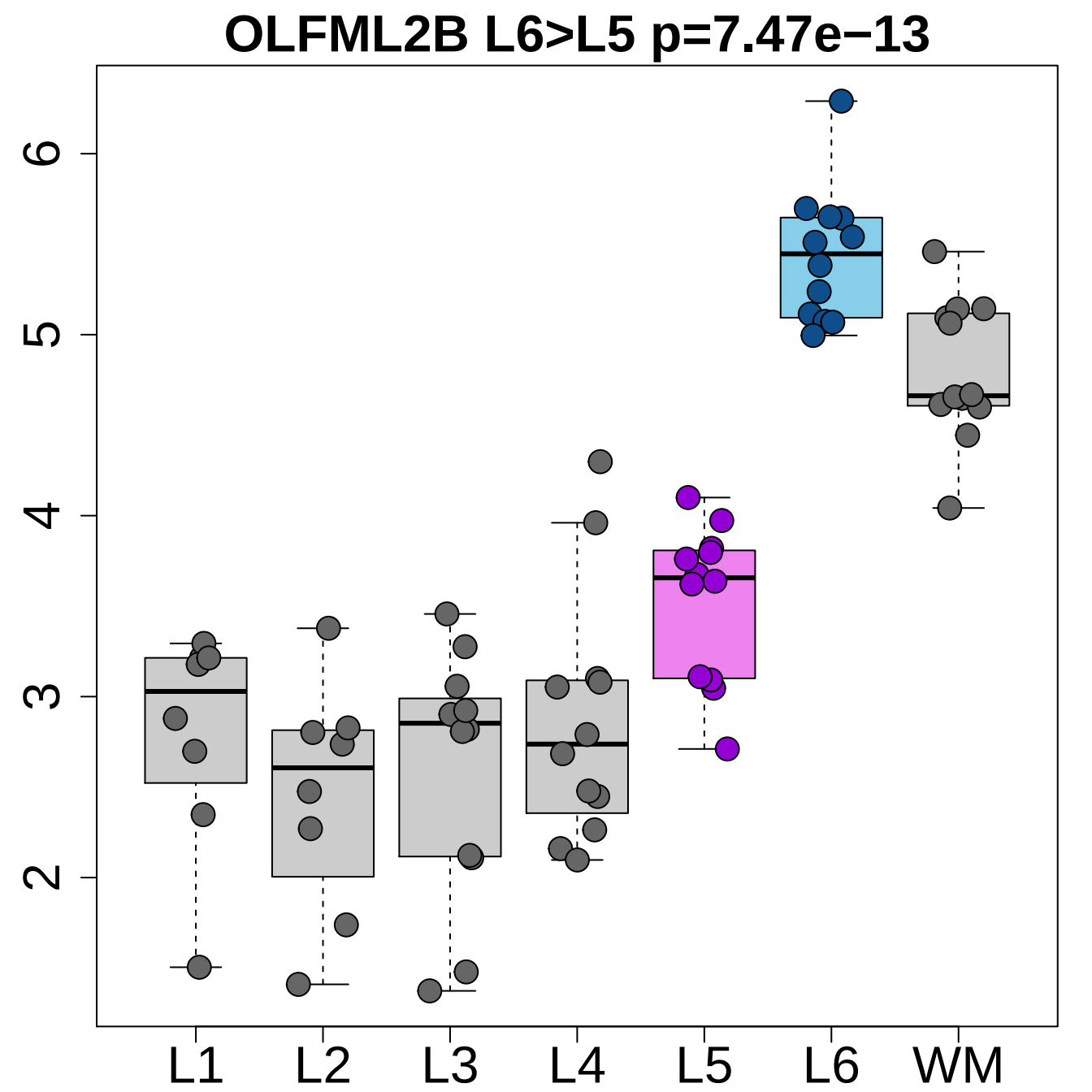
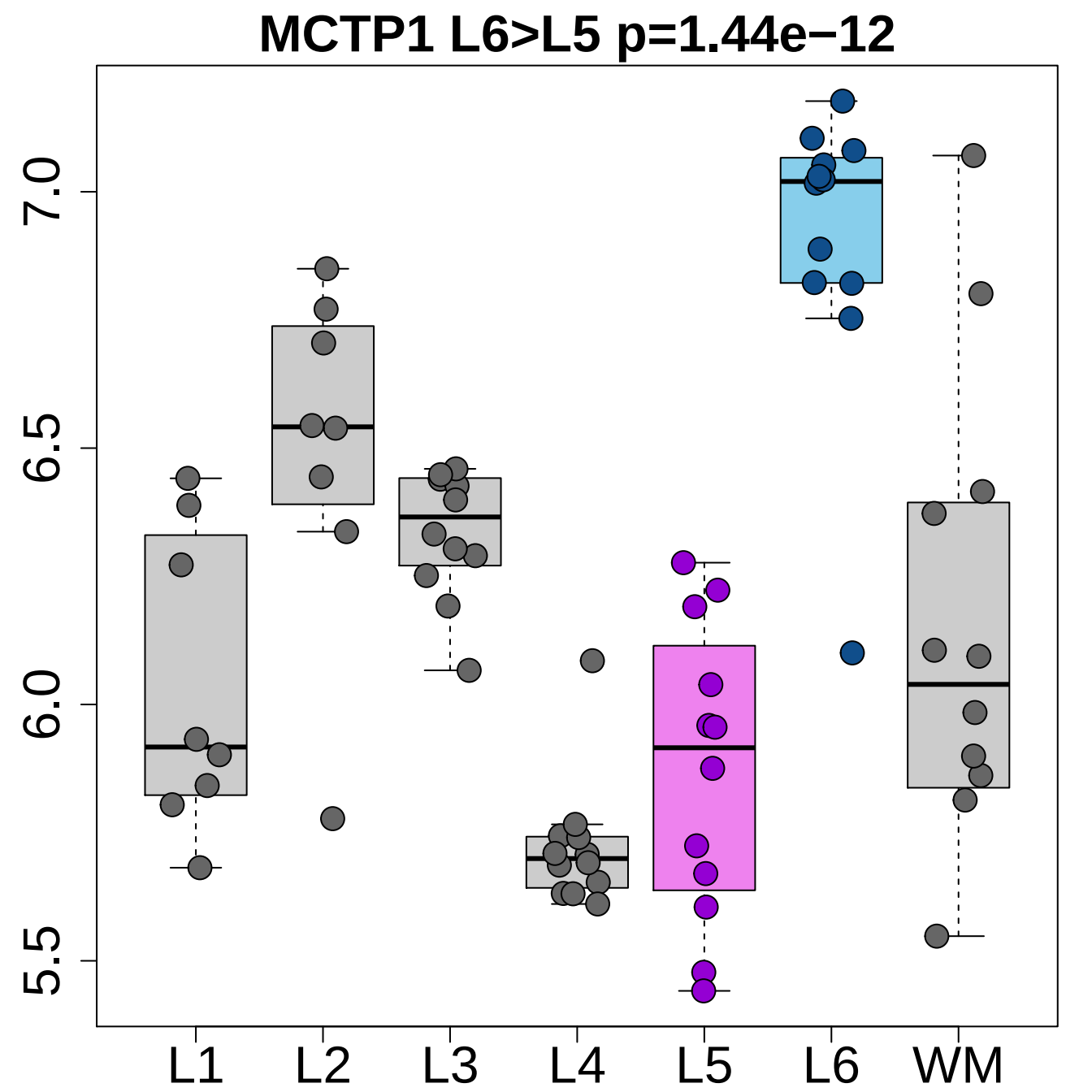
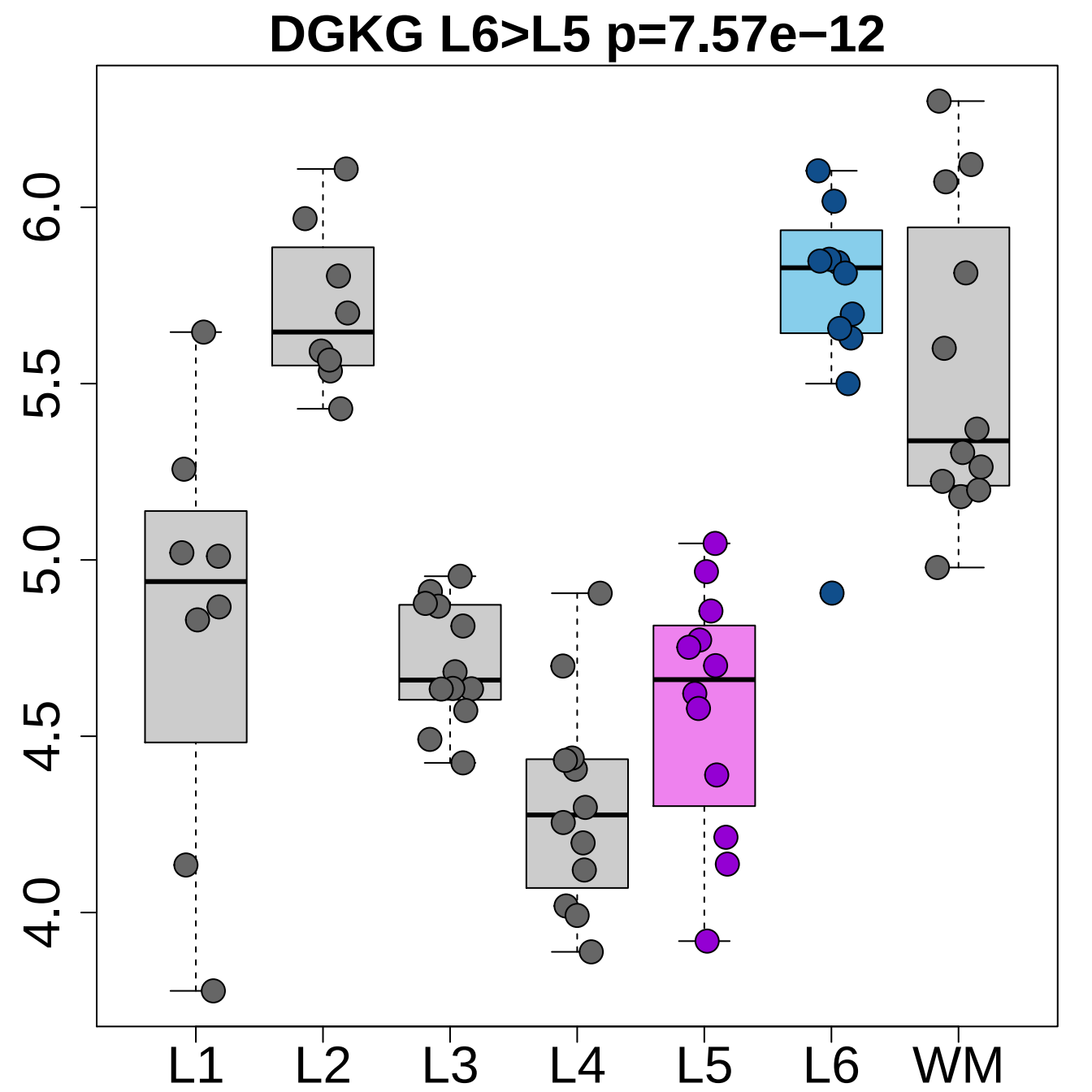
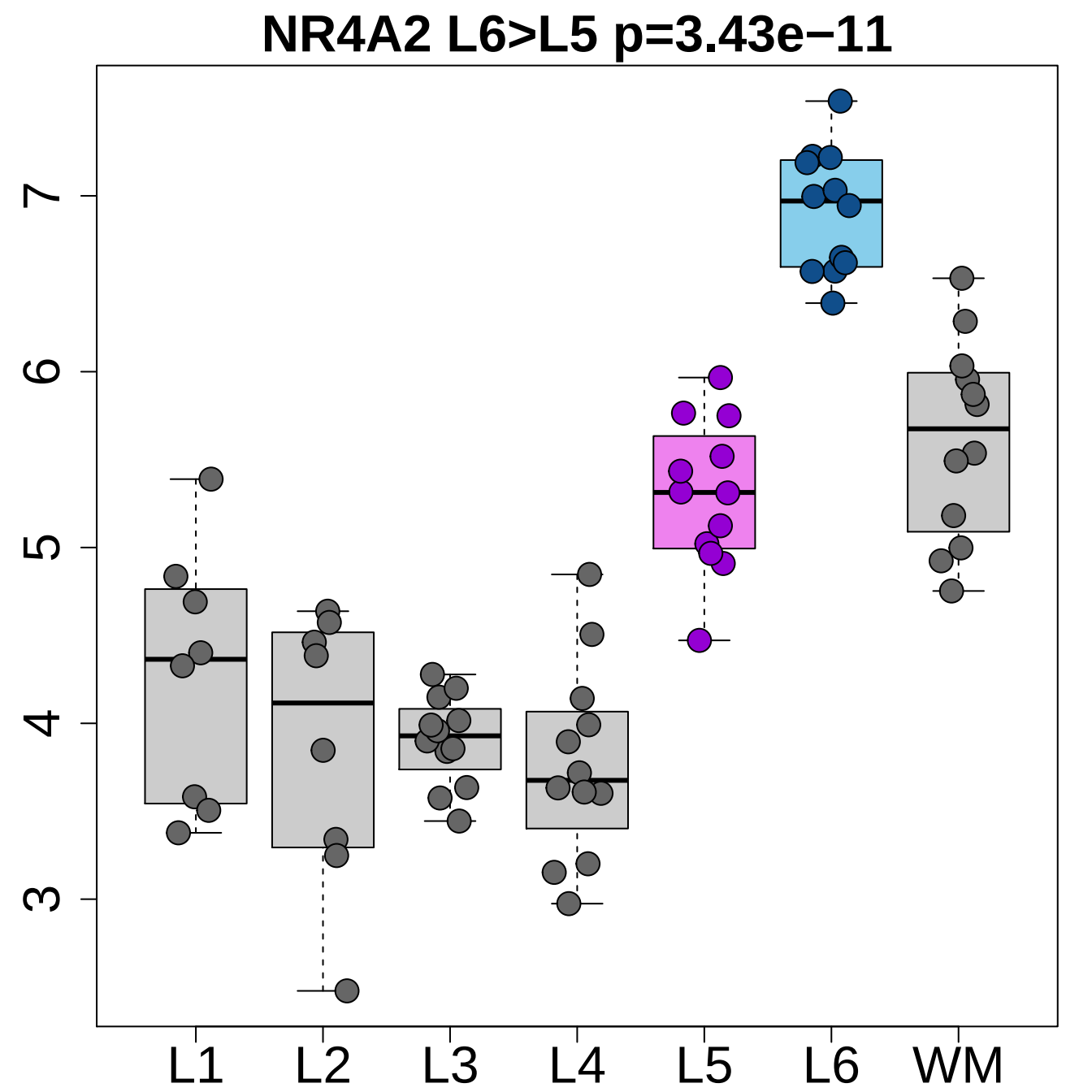
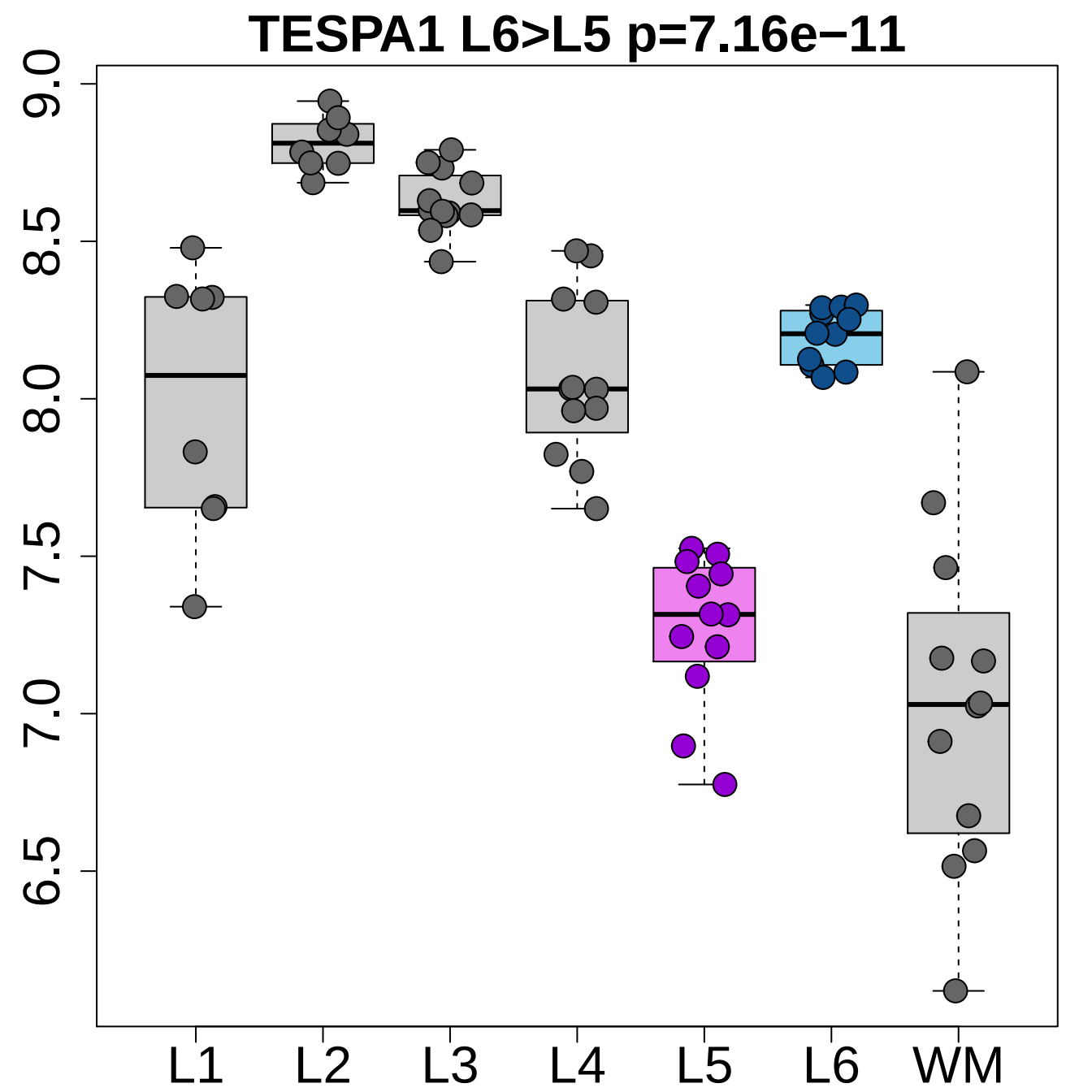
6.5
6.0
5.5
5.0
4.5
L1
L2
L3
L4
L5
L6
WM

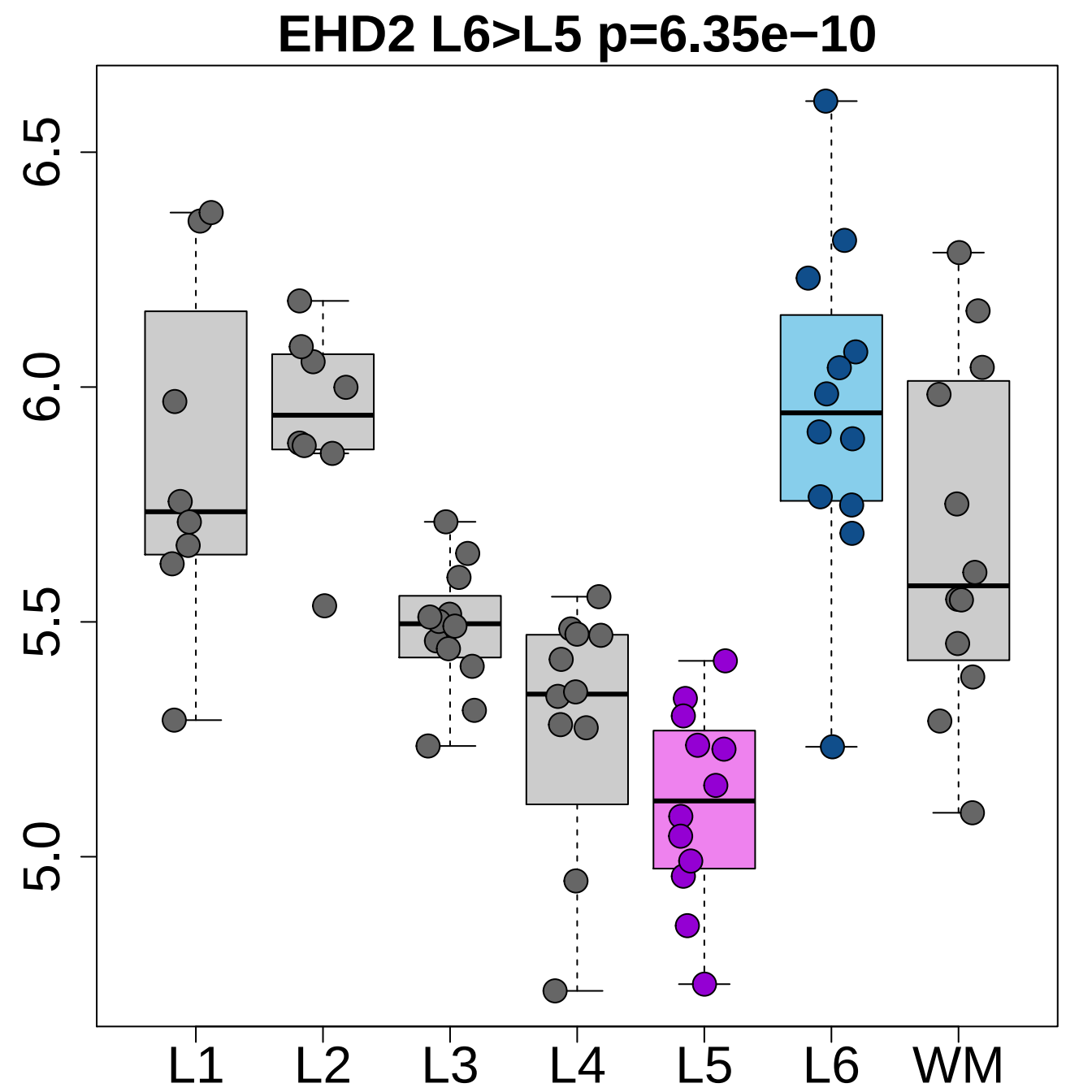

OLFML2B L6>L5 p=7.47e−13
6
5
4
3
2
L1
L2
L3
L4
L5
L6
WM


MCTP1 L6>L5 p=1.44e−12
7.0
6.5
6.0
5.5
L1
L2
L3
L4
L5
L6
WM


DGKG L6>L5 p=7.57e−12
6.0
5.5
5.0
4.5
4.0
L1
L2
L3
L4
L5
L6
WM


NR4A2 L6>L5 p=3.43e−11
7
6
5
4
3
L1
L2
L3
L4
L5
L6
WM


TESPA1 L6>L5 p=7.16e−11
9.0
8.5
8.0
7.5
7.0
6.5
L1
L2
L3
L4
L5
L6
WM


EHD2 L6>L5 p=6.35e−10
6.5
6.0
5.5
5.0
L1
L2
L3
L4
L5
L6
WM