Chr: 1:0:122026459 Log likelihood -4337.7 9 9.0 Expression z-score 4 Density 0.4  $\sim$ 0.2 0 0.0 7 -2 2 3 0 20 40 60 80 100 0 4 Expression z-score Cells Posterior probablility distribution component 1 4000 11000 3000 Frequency 2000 BIC 9000 1000 8000 0 2 0.0 0.2 0.4 0.6 8.0

1.0

Posterior probability

1

Chr: 1:124932724:248956422 Log likelihood -6157.6 9 Expression z-score 4  $\alpha$ 0 7 4 -4 -2 0 2 0 20 40 60 80 4 100 Expression z-score Cells

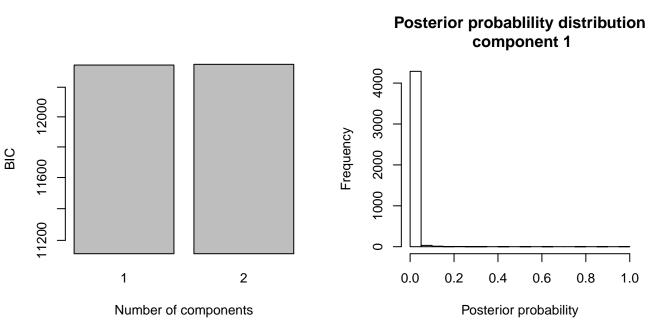
9.4

0.3

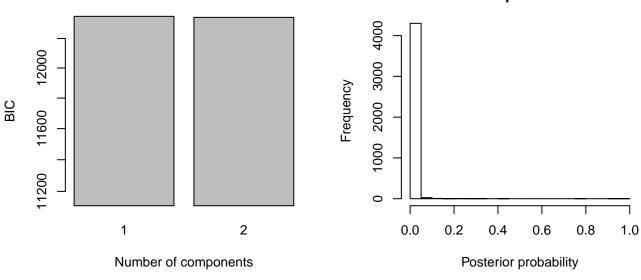
0.2

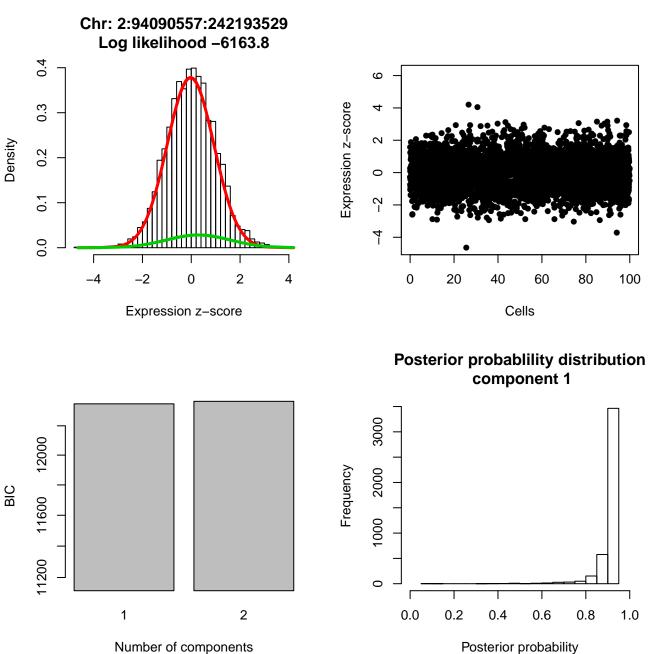
0.1

0.0



Chr: 2:0:92188145 Log likelihood -6151.5 0.4 9 Expression z-score 0.3 4  $\alpha$ Density 0.2 0 7 0.1 4 0.0 တု -6 -2 0 2 4 0 20 40 60 80 100 Expression z-score Cells Posterior probablility distribution component 1 4000 12000 3000





Chr: 3:0:90772458 Log likelihood -6163.5 9 Expression z-score 4  $\alpha$ 0 7 4 -2 0 2 0 20 40 60 80 -4 4 100 Expression z-score Cells

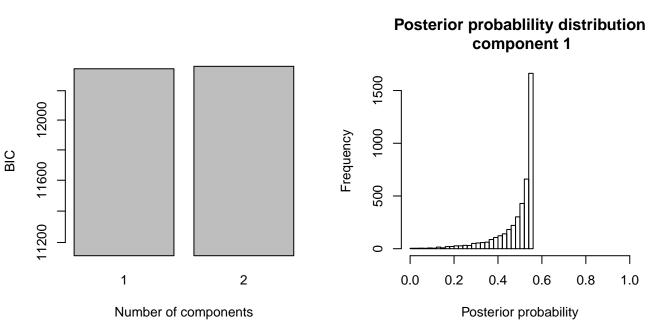
0.4

0.3

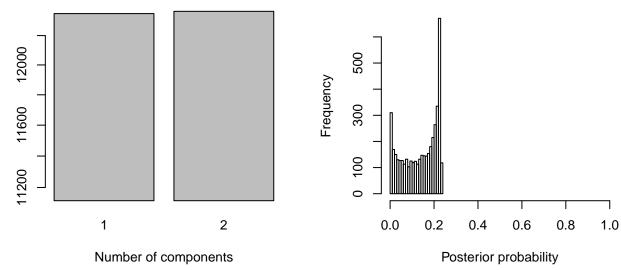
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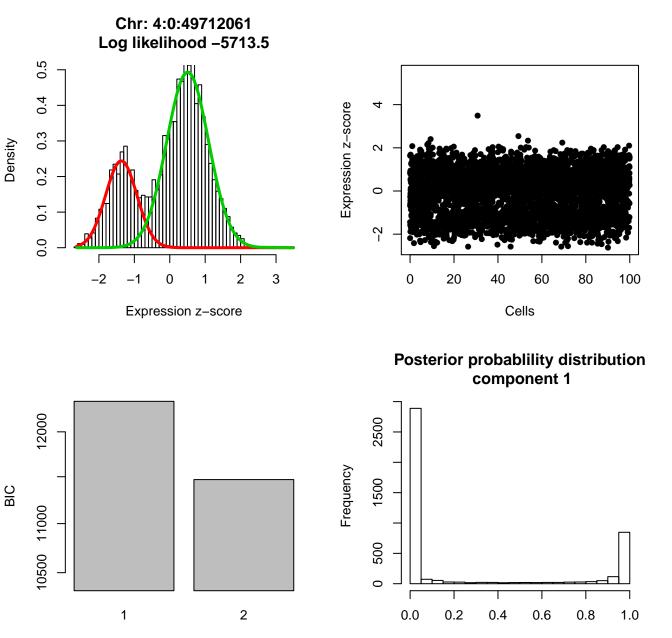
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0.0

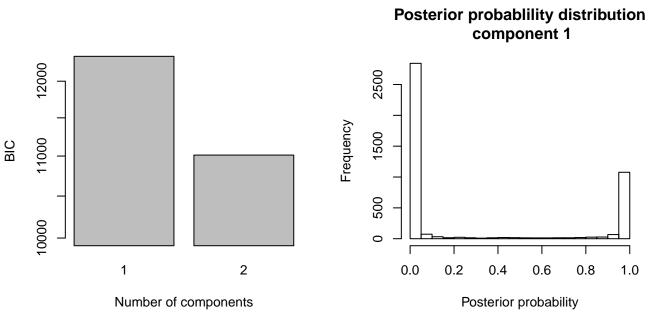


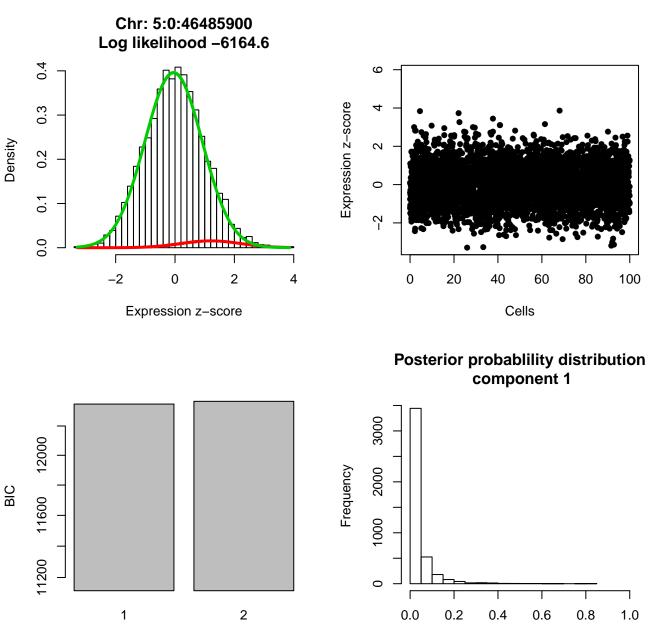
Chr: 3:93655574:198295559 Log likelihood -6162.9 0.4 9 0.3 Expression z-score Density  $\alpha$ 0.2 0 0.1 7 0.0 0 2 0 20 40 60 80 -4 4 100 Expression z-score Cells Posterior probablility distribution component 1 12000 500 BIC



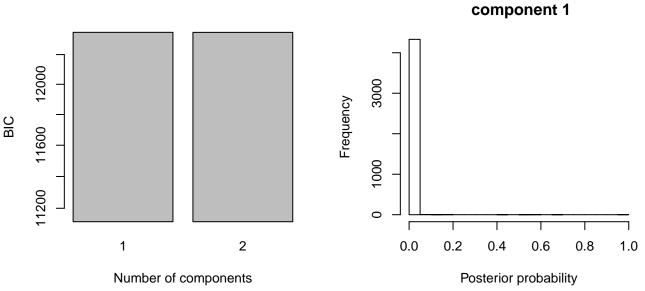


Chr: 4:51743951:190214555 Log likelihood -5485.3 0.5 Expression z-score 0.4  $\alpha$ 0.3 0.2 0 0.1 7 0.0 -3 0 2 3 0 20 40 60 80 100 Expression z-score Cells

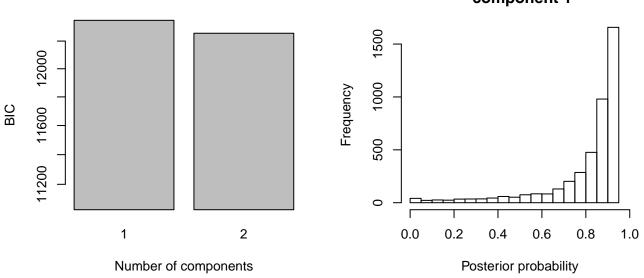




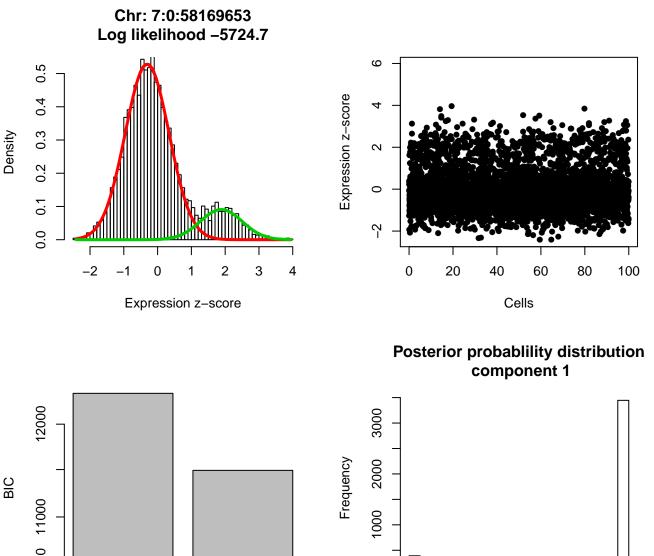
Chr: 5:50059807:181538259 Log likelihood -6154.9 0.4 Expression z-score 0.3  $\alpha$ Density 0.2 0 7 0.1 4 0.0 -2 0 2 0 20 40 60 80 100 Expression z-score Cells Posterior probablility distribution component 1



Chr: 6:0:58553888 Log likelihood -6107.6 0.4 9 Expression z-score 0.3 4 Density 0.2  $\alpha$ 0 0.1 7 0.0 -2 0 2 0 20 40 60 80 100 4 Expression z-score Cells Posterior probablility distribution component 1 1500

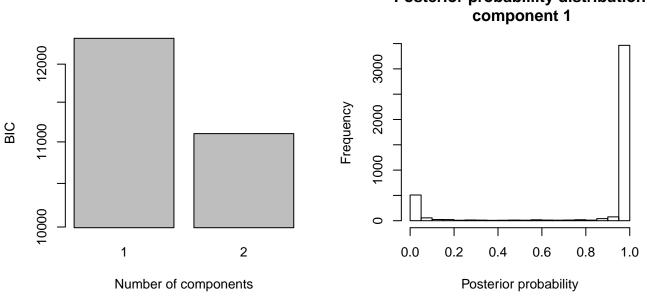


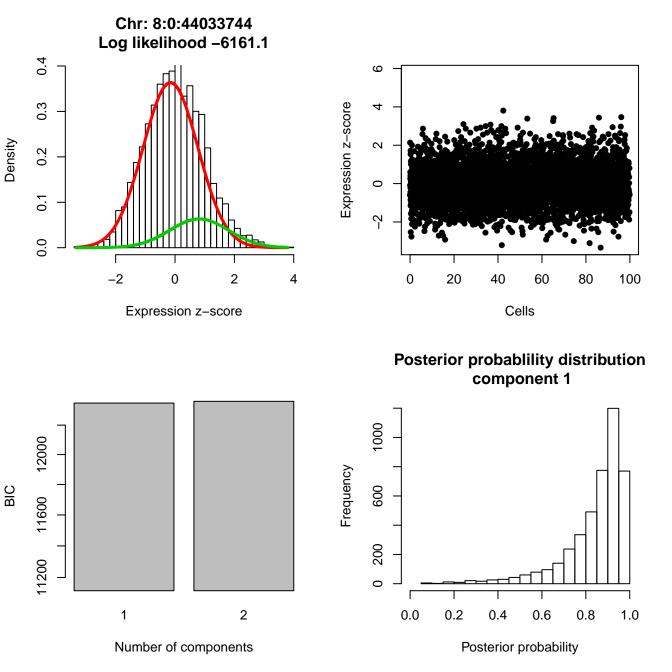
Chr: 6:59829934:170805979 Log likelihood -6161.5 9 0.4 Expression z-score 4 0.3  $\alpha$ Density 0.2 0 7 0.1 4 0.0 -2 2 0 20 40 60 80 -4 0 4 100 Expression z-score Cells Posterior probablility distribution component 1 3500 12000 2500 Frequency BIC 1500 11600 500 11200 0 2 0.0 0.2 0.4 0.6 8.0 1.0 1 Number of components Posterior probability



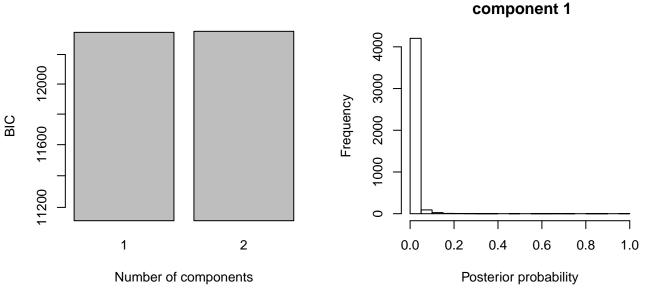
10500 11000 0 2 0.0 0.2 0.4 0.6 8.0 1.0 1 Number of components Posterior probability

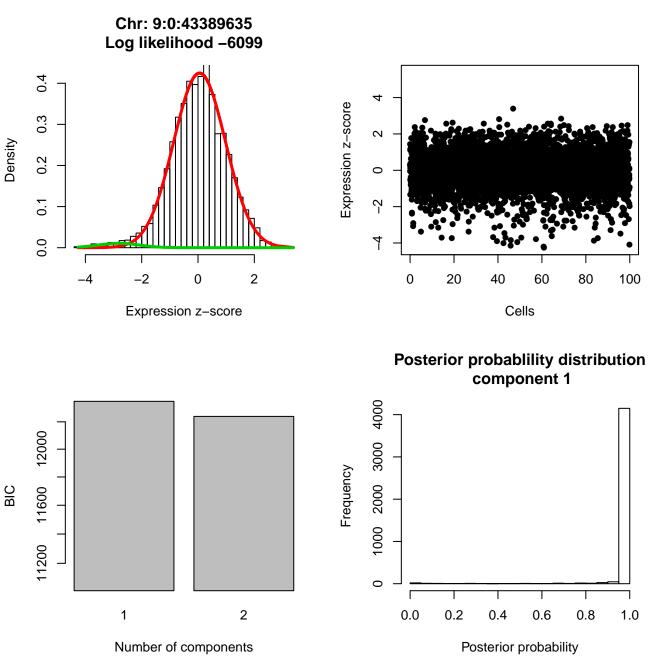
Chr: 7:61528020:159345973 Log likelihood -5530.1 0.5 Expression z-score 0.4 0.3  $\alpha$ 0.2 0 0.1 7 0.0 -2 0 3 0 20 40 60 80 100 2 Expression z-score Cells Posterior probablility distribution component 1

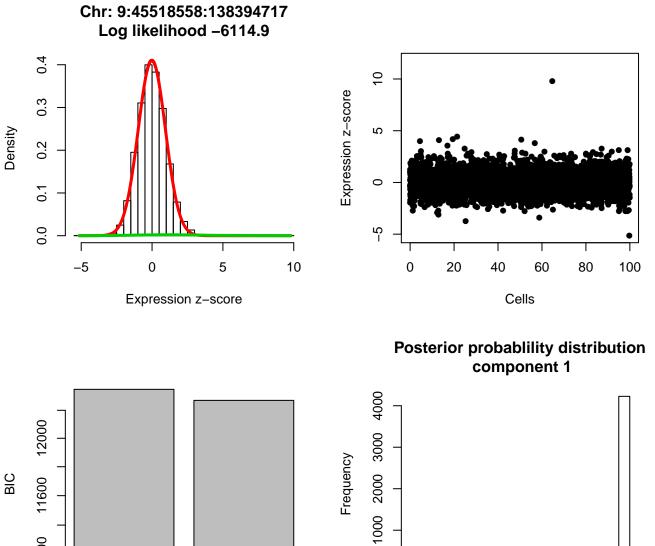




Chr: 8:45877265:145138636 Log likelihood -6158.6 0.4 9 Expression z-score 0.3 Density 0.2  $\alpha$ 0 0.1 7 0.0 -2 0 2 4 0 20 40 60 80 100 Expression z-score Cells Posterior probablility distribution component 1 4000

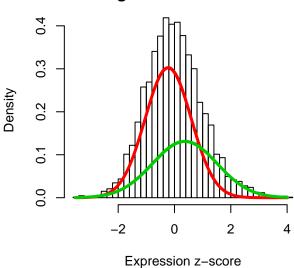


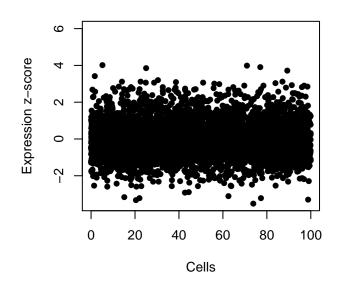


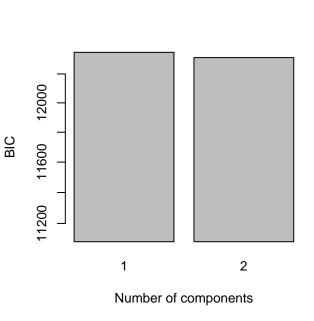


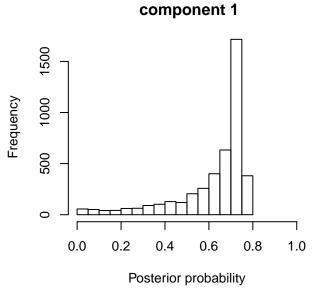
11200 0 2 0.0 0.2 0.4 0.6 8.0 1.0 1 Number of components Posterior probability

Chr: 10:0:39686682 Log likelihood -6136.5



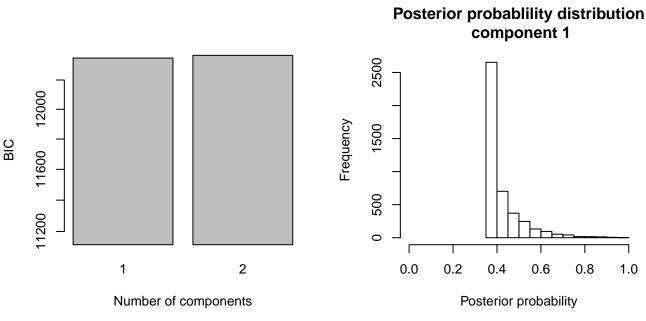




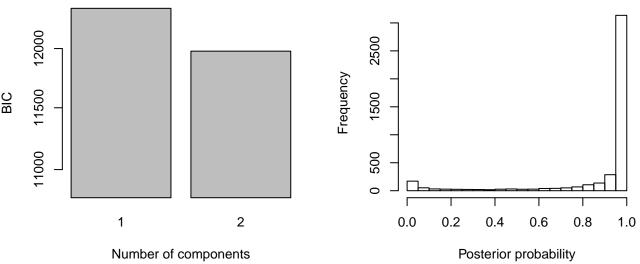


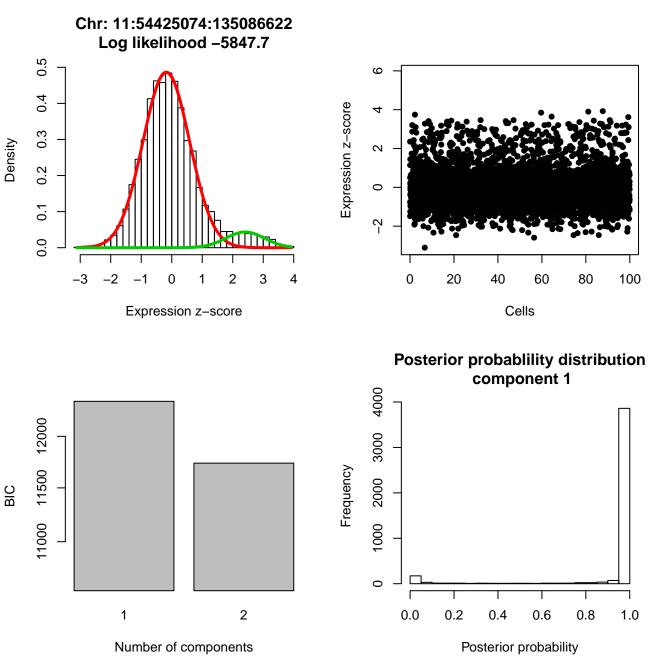
Posterior probablility distribution

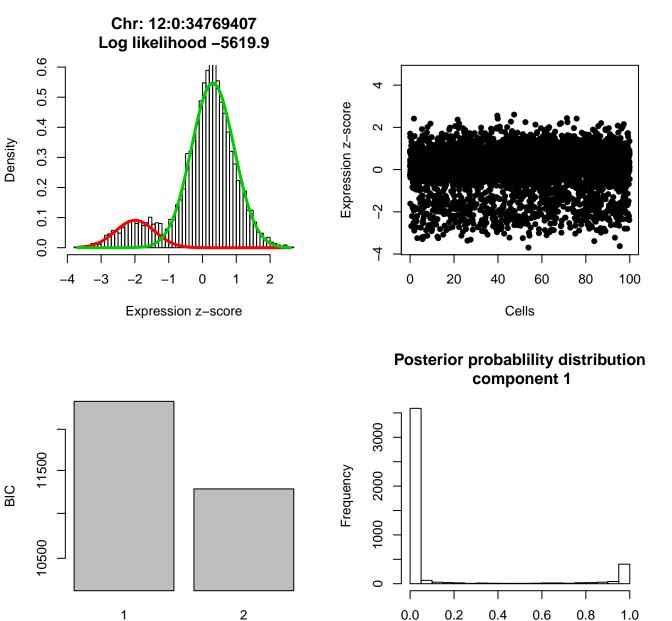
Chr: 10:41593521:133797422 Log likelihood -6164.6 0.4 9 0.3 Expression z-score 4 Density  $\sim$ 0.2 0 0.1 7 0.0 4 -2 2 0 20 40 60 80 100 -4 0 4 Expression z-score Cells Posterior probablility distribution component 1 2500 12000



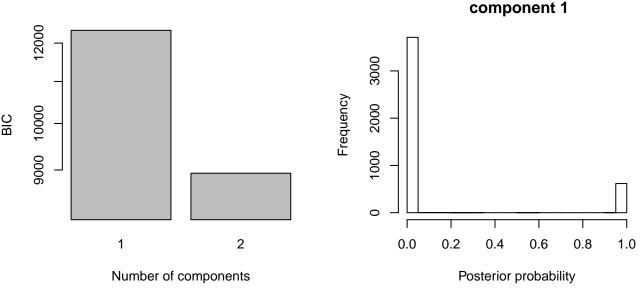
Chr: 11:0:51078348 Log likelihood -5967.8 9 0.4 Expression z-score 0.3 Density  $\alpha$ 0.2 0 0.1 7 0.0 -2 2 0 20 40 60 80 0 4 100 Expression z-score Cells Posterior probablility distribution component 1 12000 2500



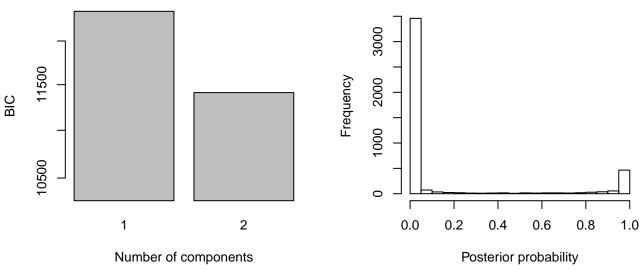




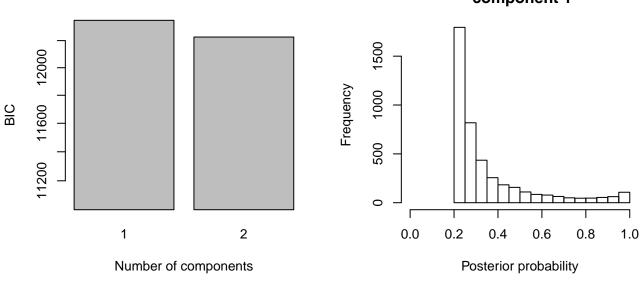
Chr: 12:37185252:133275309 Log likelihood -4445.8 9.0 Expression z-score  $\alpha$ Density 0.4 0 0.2 7 0.0 -3 0 2 0 20 40 60 80 100 1 Expression z-score Cells Posterior probablility distribution component 1 12000 3000



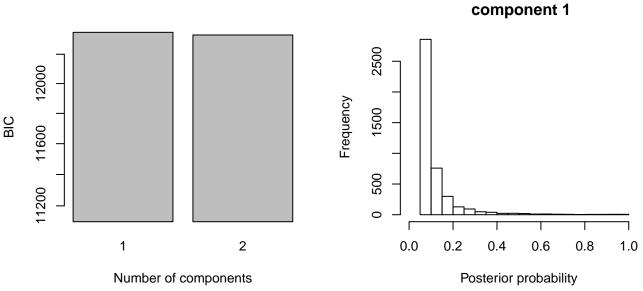
Chr: 13:18051248:114364328 Log likelihood -5684.8 0.5 Expression z-score 0.4  $\alpha$ 0.3 0.2 0 0.1 7 0.0 -3 2 3 0 20 40 60 80 100 0 Expression z-score Cells Posterior probablility distribution component 1 3000



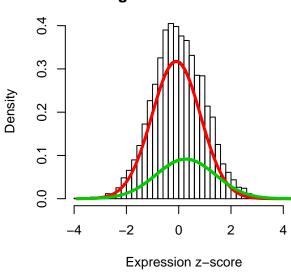
Chr: 14:18173523:107043718 Log likelihood -6092.4 9.4 9 0.3 Expression z-score 4  $\alpha$ Density 0.2 0 7 0.1 0.0 9 -6 -2 0 2 0 20 40 60 80 4 100 Expression z-score Cells Posterior probablility distribution component 1 1500 12000

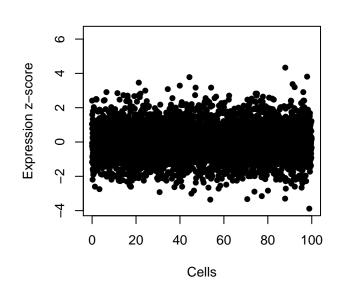


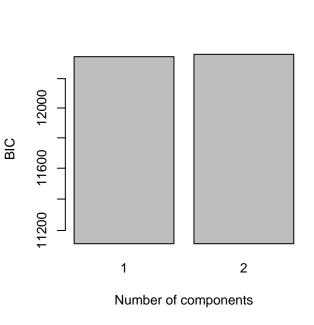
Chr: 15:19725254:101991189 Log likelihood -6145.8 9 0.3 Expression z-score 4 Density  $\alpha$ 0.2 0 7 0.1 0.0 9 -6 0 20 40 60 80 0 2 4 100 Expression z-score Cells Posterior probablility distribution component 1 2500

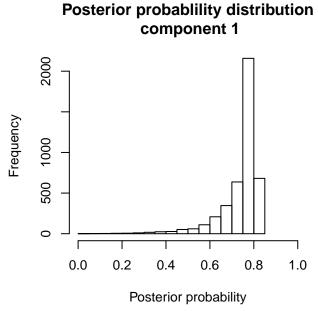


Chr: 16:0:36311158 Log likelihood -6163.2

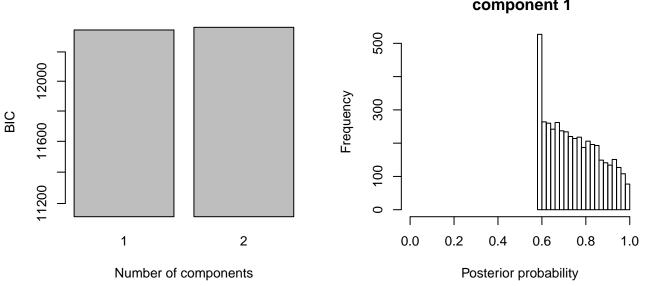


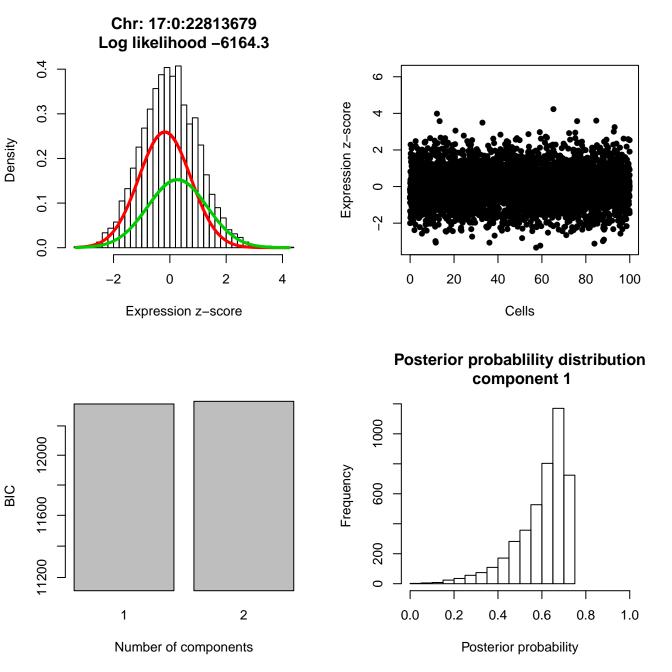






Chr: 16:36334460:90338345 Log likelihood -6164.3 0.4 9 Expression z-score 0.3 4 Density  $\alpha$ 0.2 0 0.1 7 0.0 4 -2 0 2 0 20 40 60 80 100 -4 4 Expression z-score Cells Posterior probablility distribution component 1 500 12000





Chr: 17:26566633:83257441
Log likelihood –6151.9

0

20

40

Cells

60

80

100

9.4

0.3

0.2

0.1

0.0

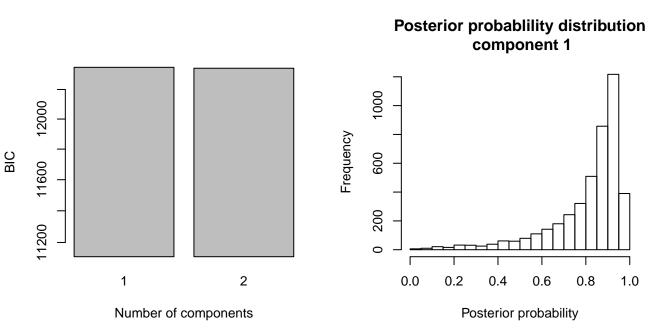
-2

0

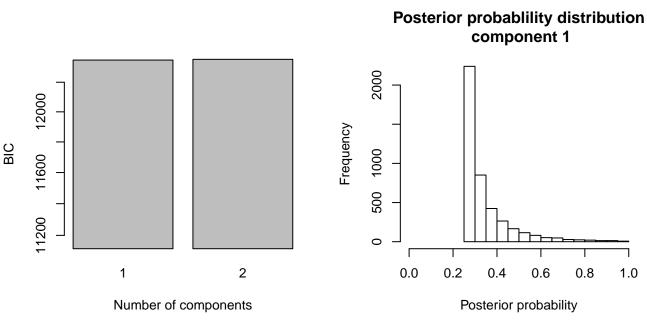
Expression z-score

2

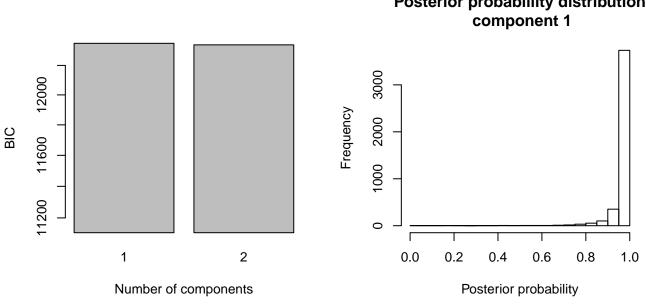
4



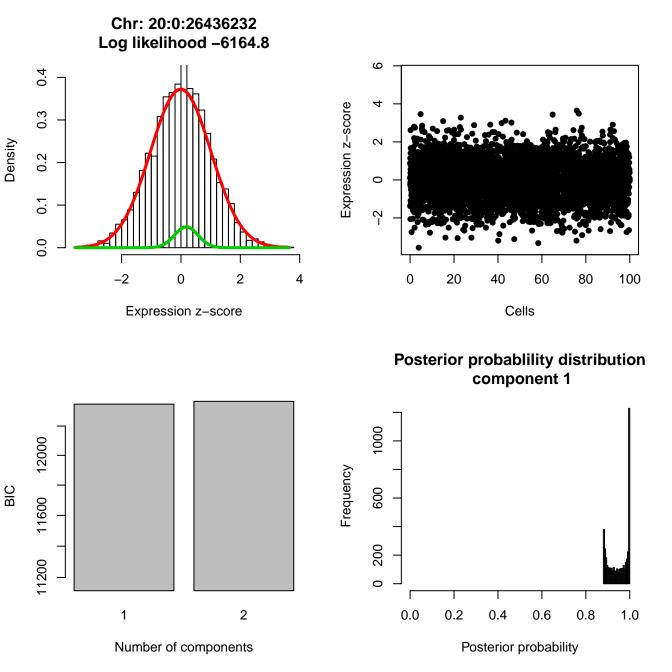
Chr: 18:20861206:80373285 Log likelihood -6157.6 9.4 9 Expression z-score 0.3  $\alpha$ 0.2 0 0.1 7 0.0 4 -2 0 2 0 20 40 60 80 -4 4 100 Expression z-score Cells

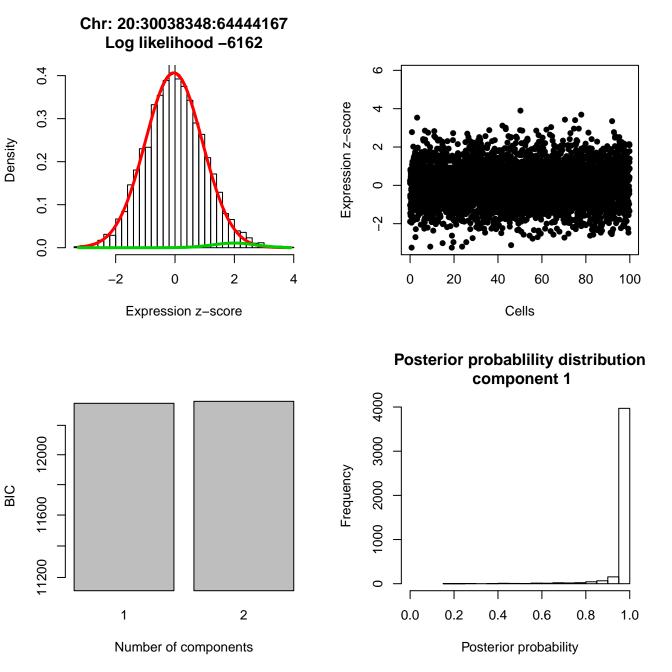


Chr: 19:0:24498980 Log likelihood -6149.8 0.4 9 Expression z-score 0.3 4 Density  $\alpha$ 0.2 0 0.1 7 0.0 4 -2 0 2 0 20 40 60 80 100 -4 4 Expression z-score Cells Posterior probablility distribution component 1 3000



Chr: 19:27190874:58617616 Log likelihood -5192.5 9.0 9 Expression z-score 0.4 Density  $\alpha$ 0.2 0 7 0.0 -2 0 2 0 20 40 60 80 4 100 Expression z-score Cells Posterior probablility distribution component 1 4000 11500 3000 Frequency 2000 BIC 10500 1000 9500 0 2 0.0 0.2 0.4 0.6 8.0 1 1.0 Number of components Posterior probability





Chr: 21:12915808:46709983 Log likelihood -6167 0.4 9 Expression z-score 0.3 Density  $\alpha$ 0.2 0 0.1 7 0.0 -2 0 2 0 20 40 60 80 100 4 Expression z-score Cells Posterior probablility distribution component 1 12000 3000 Frequency BIC 11600 1000 11200 0 2 0.0 0.2 0.4 0.6 8.0 1.0 1

Chr: 22:15054318:50818468 Log likelihood -6111 9 0.4 Expression z-score 4 0.3 Density  $\alpha$ 0.2 0 0.1 7 0.0 -3 3 0 20 40 60 80 0 2 100 4 Expression z-score Cells Posterior probablility distribution component 1 2500

