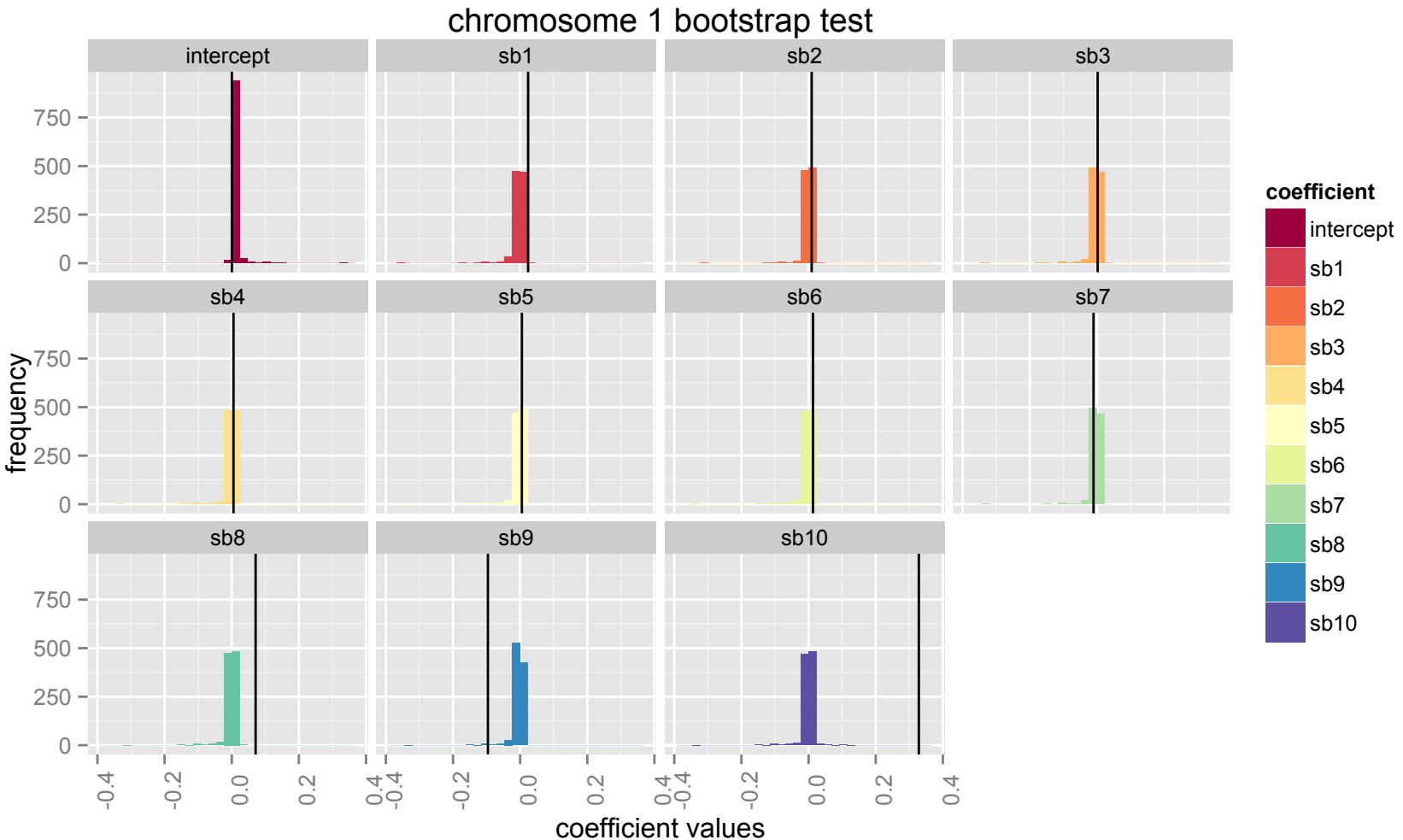
Supplementary Figure S3. Null distributions for each regression coefficients corresponding to each of the10 knots of the B-spline design, as well as the observed fitted coefficient (black vertical lines) for each one of the 14 chromosomes in *Plasmodium vivax*. We consider significant only those observed fitted values that are above or below 99% of the regression coefficients form the bootstrapped pseudo-random samples.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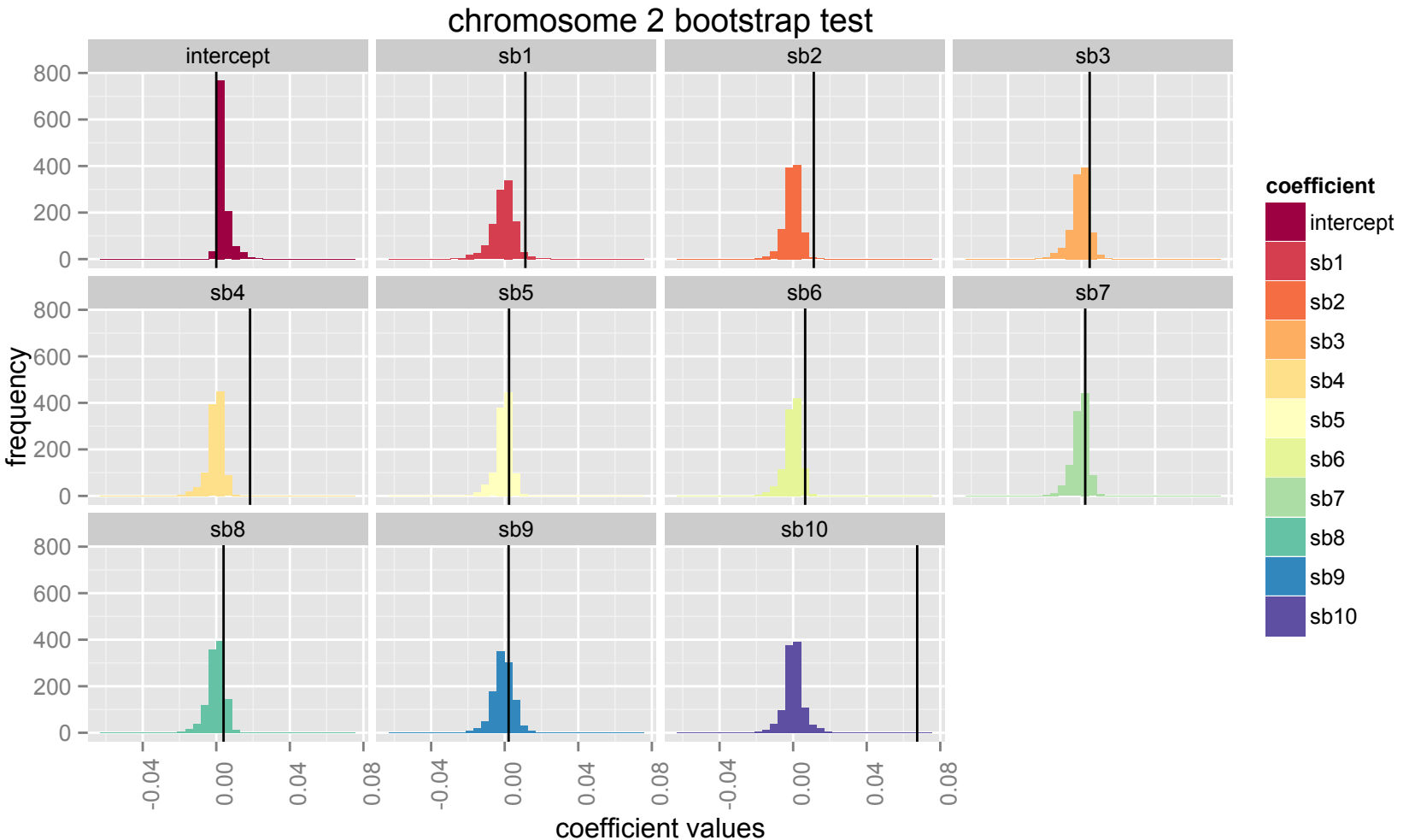
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10
frequency
0
250
500
750
-0.4
-0.2
0.0
0.2
0.4
coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10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sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10
frequency
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200
400
600
800
-0.04
0.00
0.04
0.08
coefficient values
coefficient
intercept
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sb2
sb3
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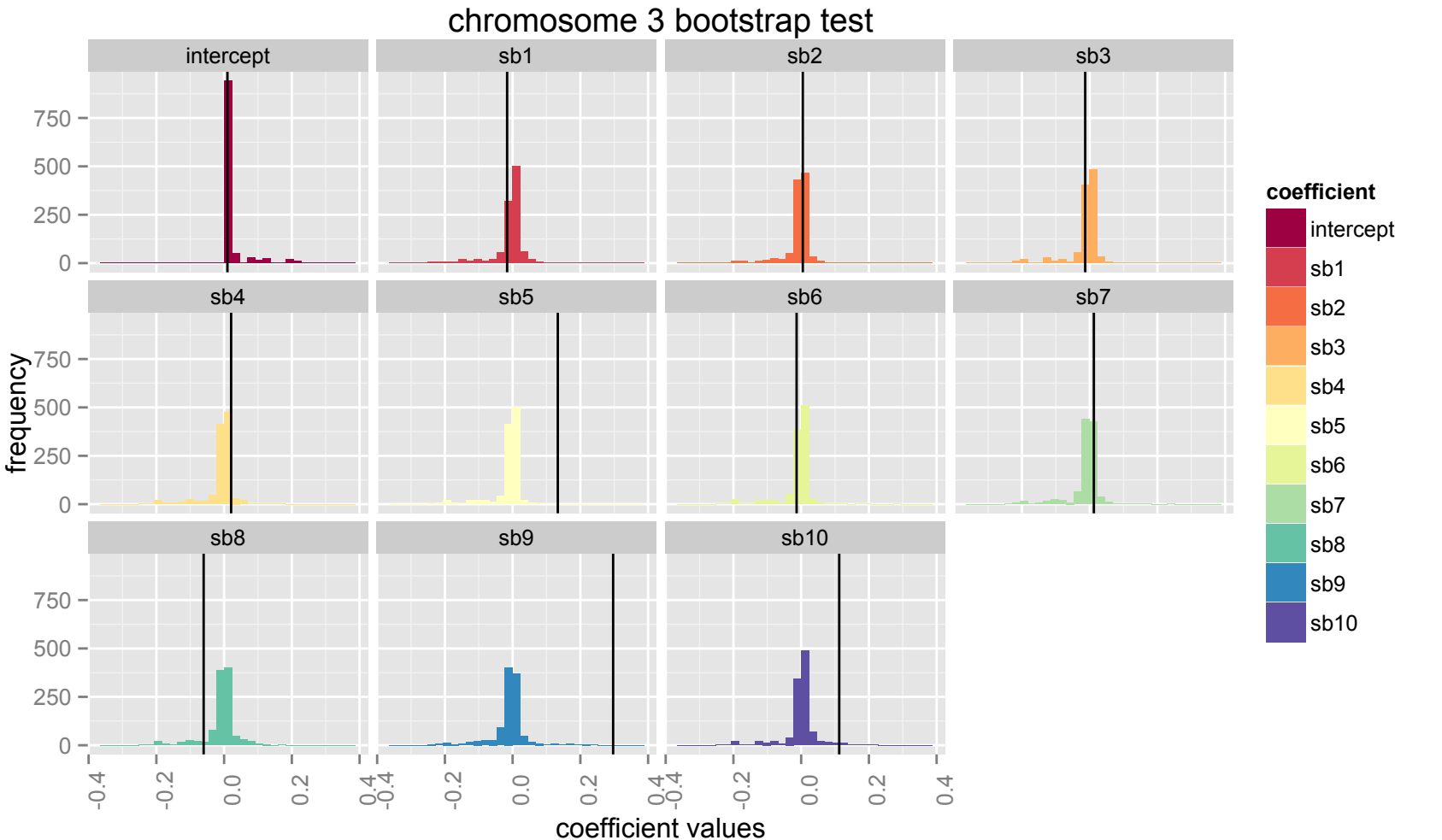
sb5
sb6
sb7
sb8
sb9
sb10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sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10
frequency
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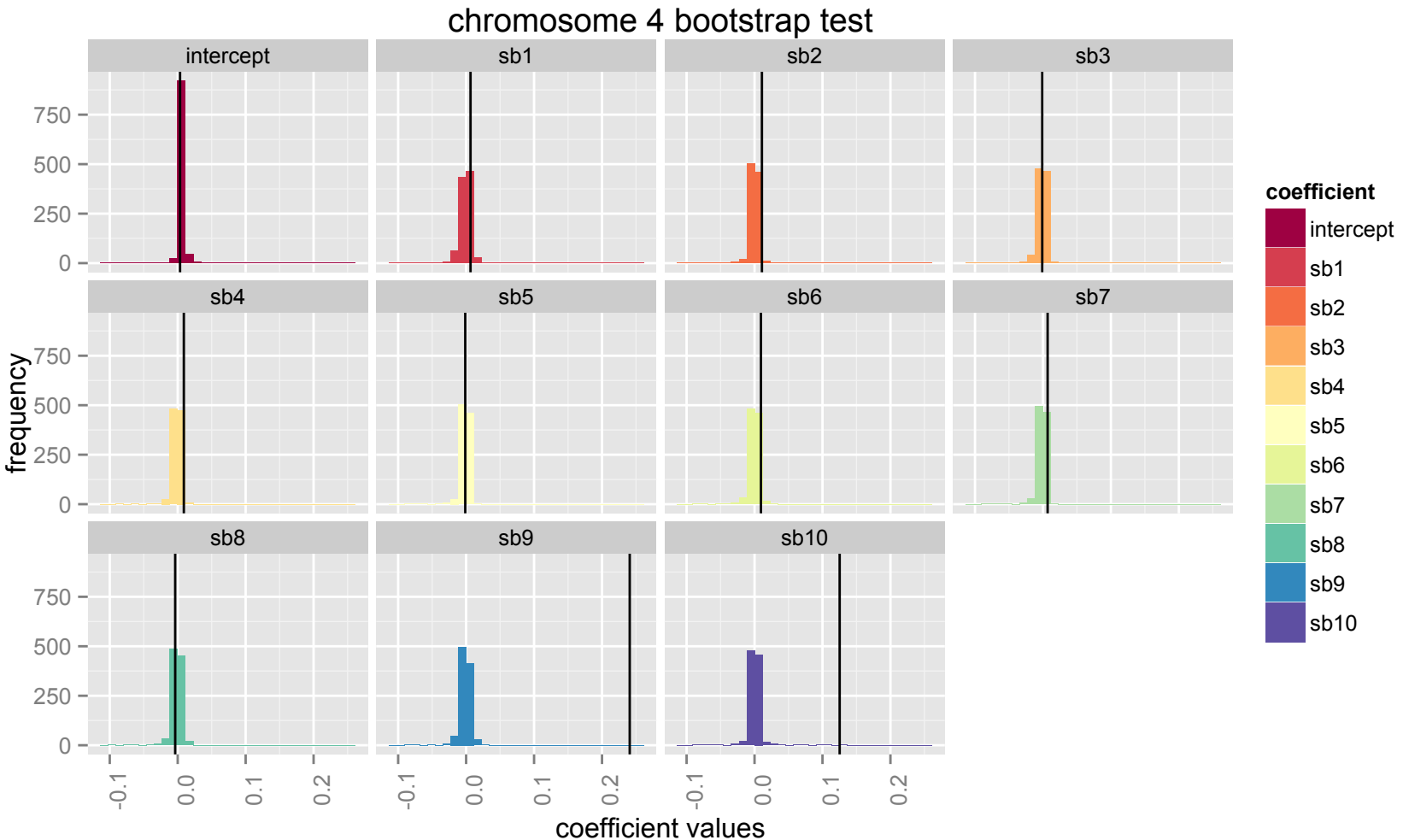
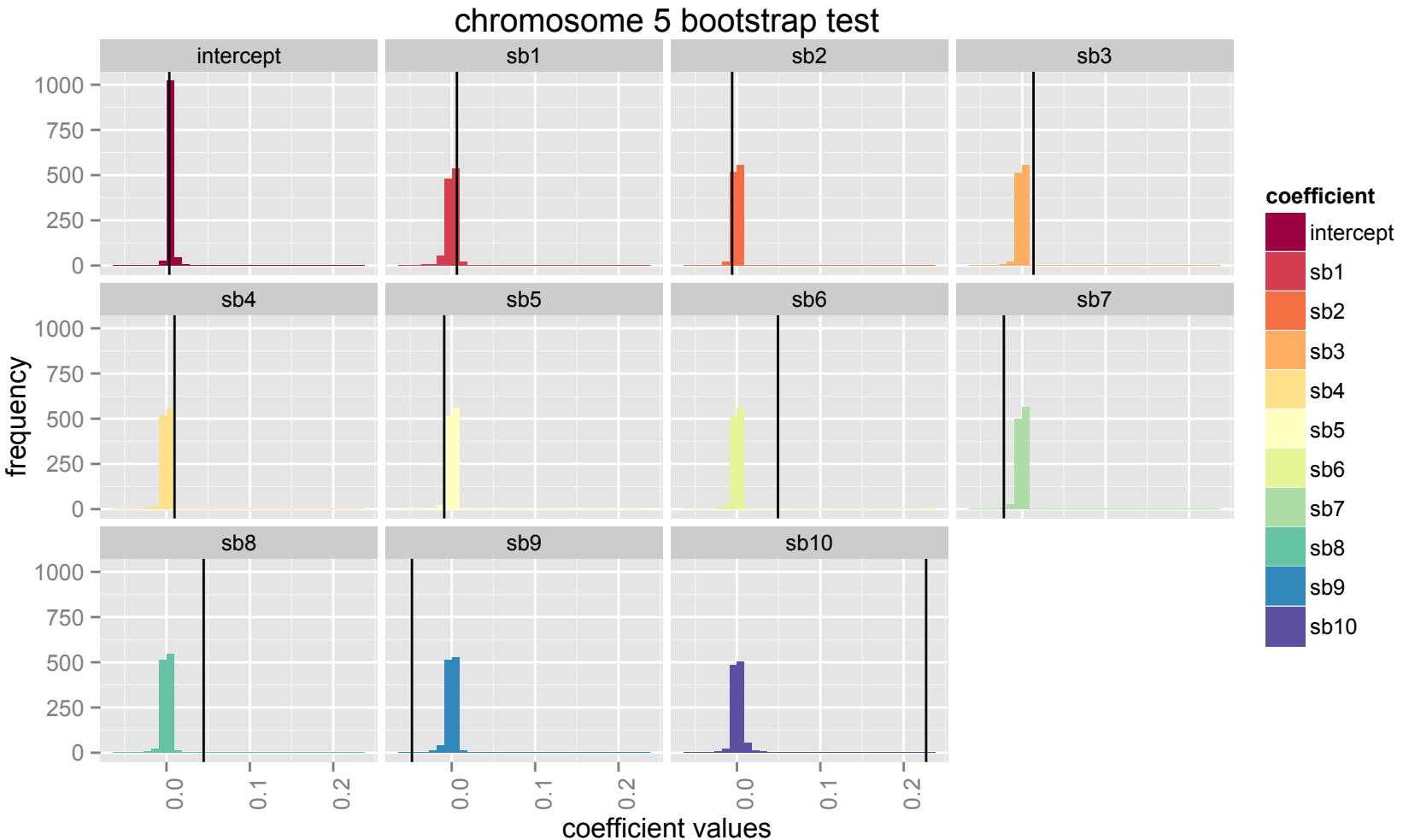
250
500
750
-0.4
-0.2
0.0
0.2
0.4
coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10


chromosome 4 bootstrap test
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10
frequency
750
500
250
0
-0.1
0.0
0.1
0.2
coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10


chromosome 5 bootstrap test
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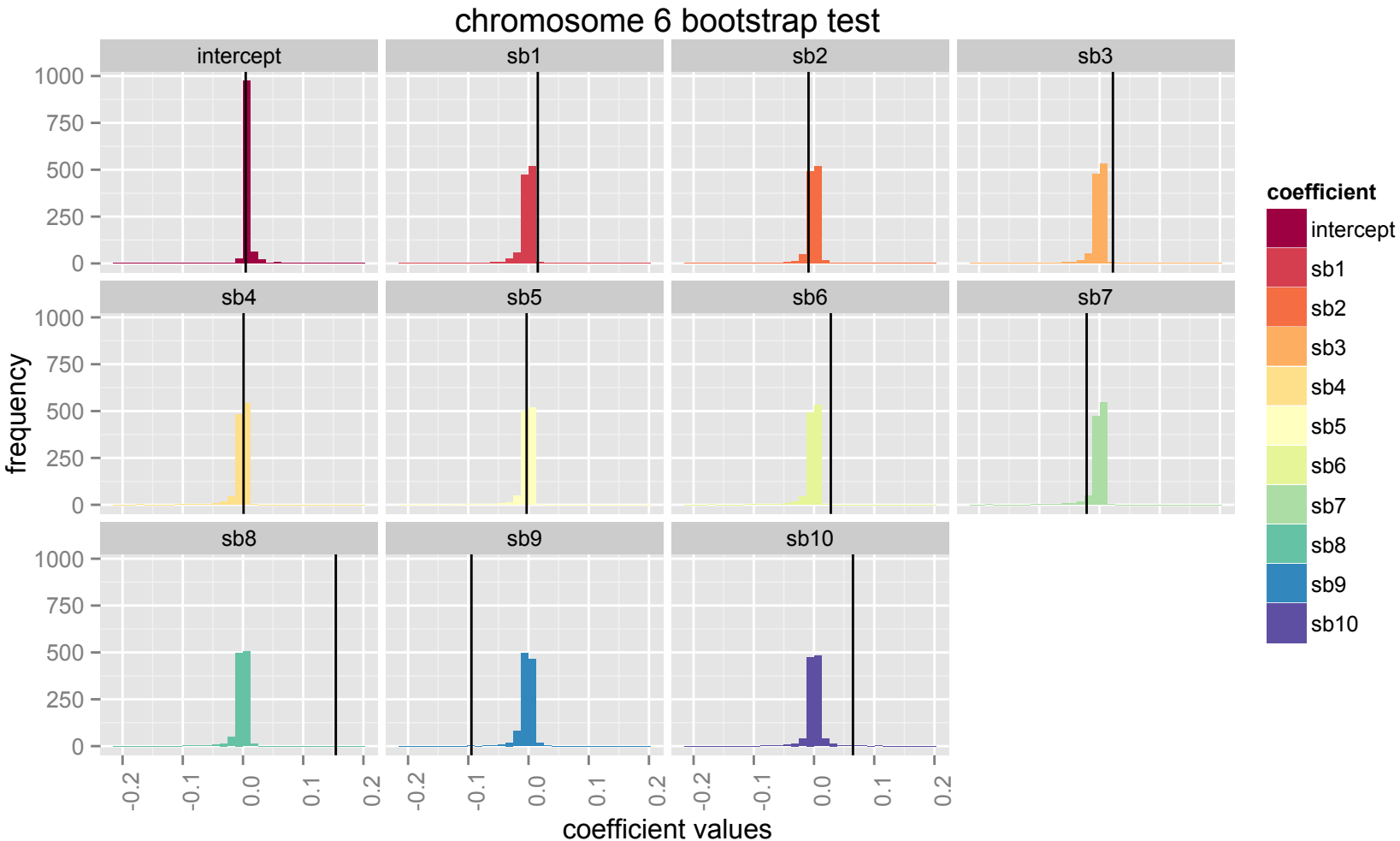
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10
frequency
1000
750
500
250
0
0.0
0.1
0.2
coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10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sb6
sb7
sb8
sb9
sb10
frequency
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750
500
250
0
-0.2
-0.1
0.0
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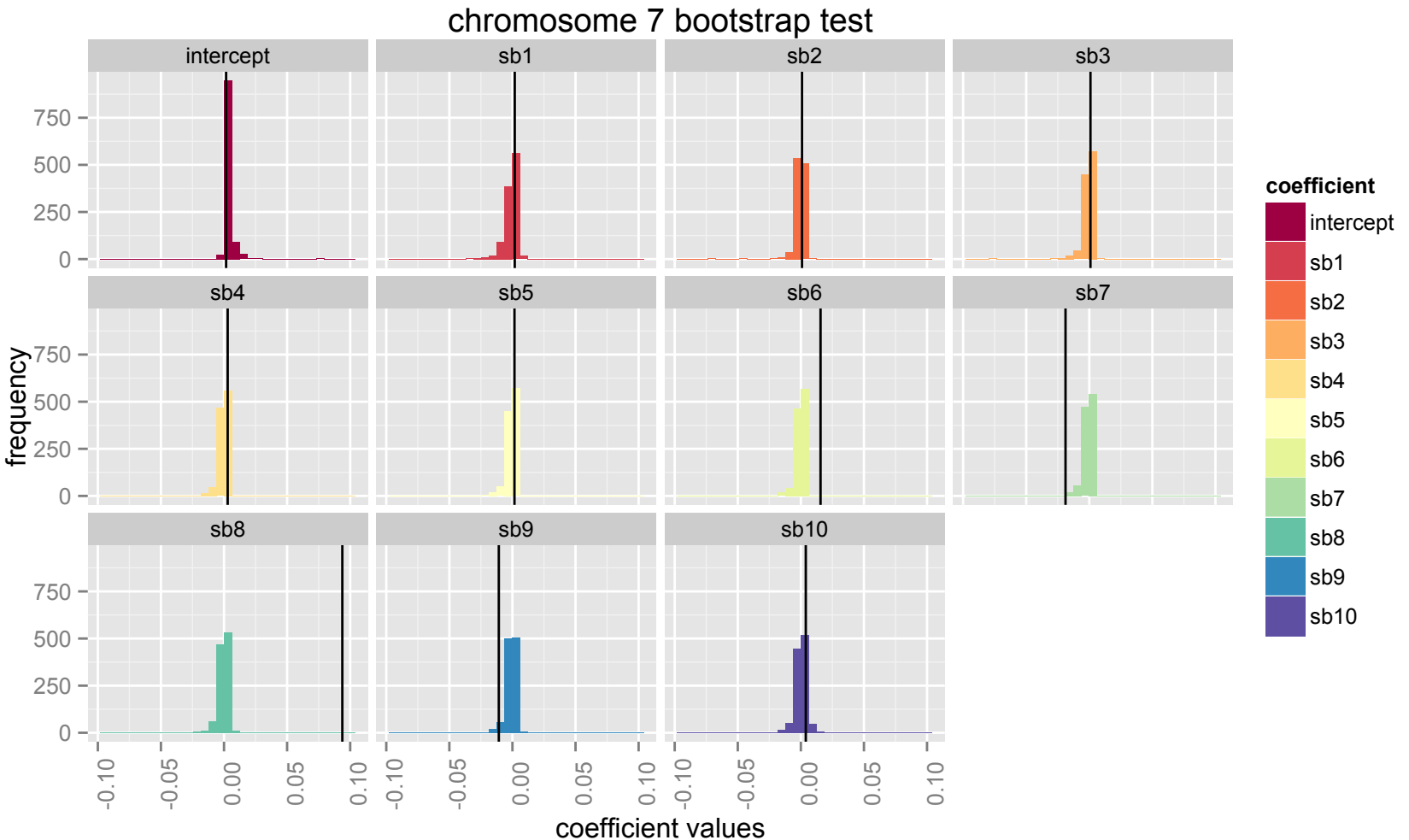
coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10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sb5
sb6
sb7
sb8
sb9
sb10
frequency
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250
500
750
-0.10
-0.05
0.00
0.05
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coefficient
intercept
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sb2
sb3
sb4
sb5
sb6
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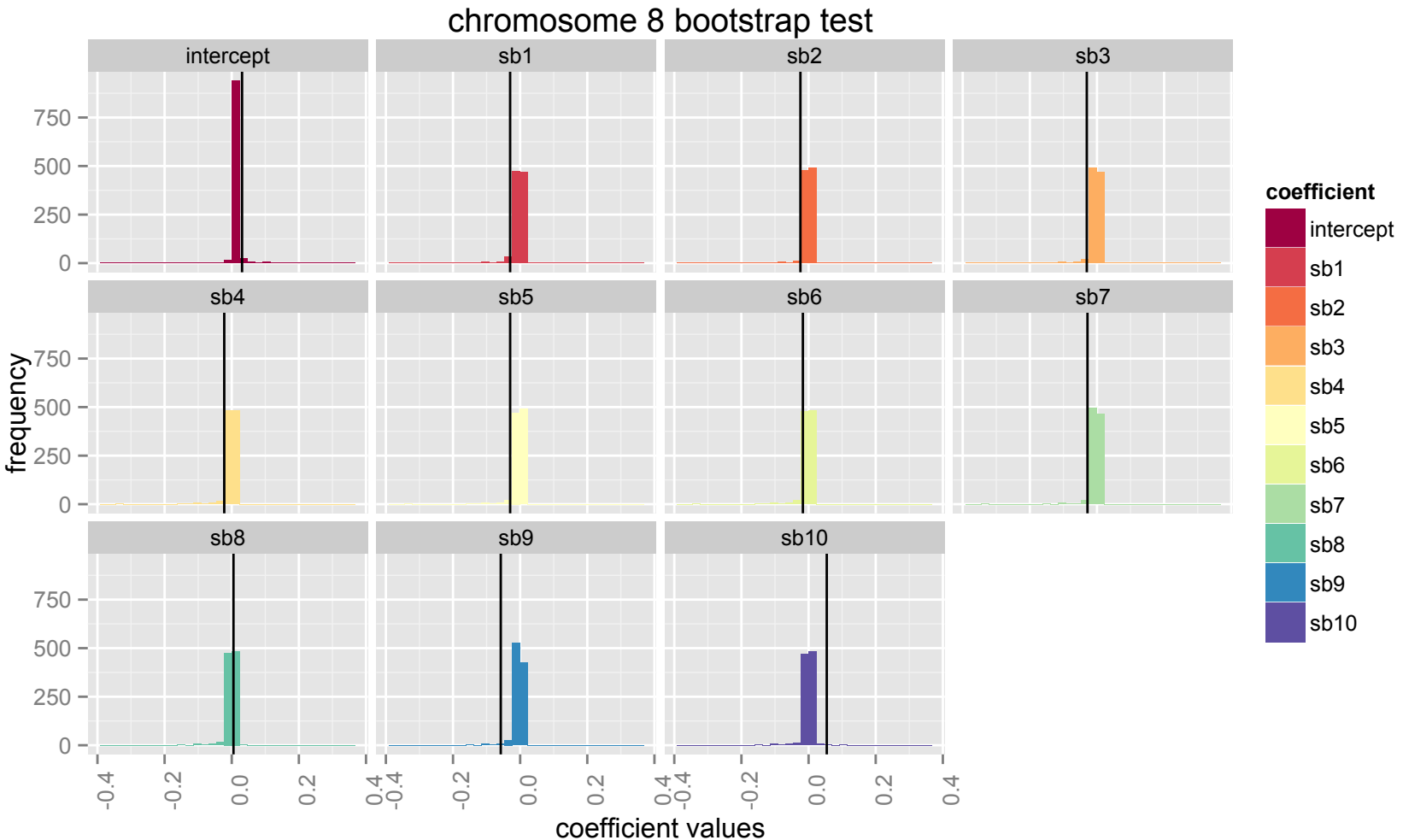
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sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10
frequency
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250
500
750
-0.4
-0.2
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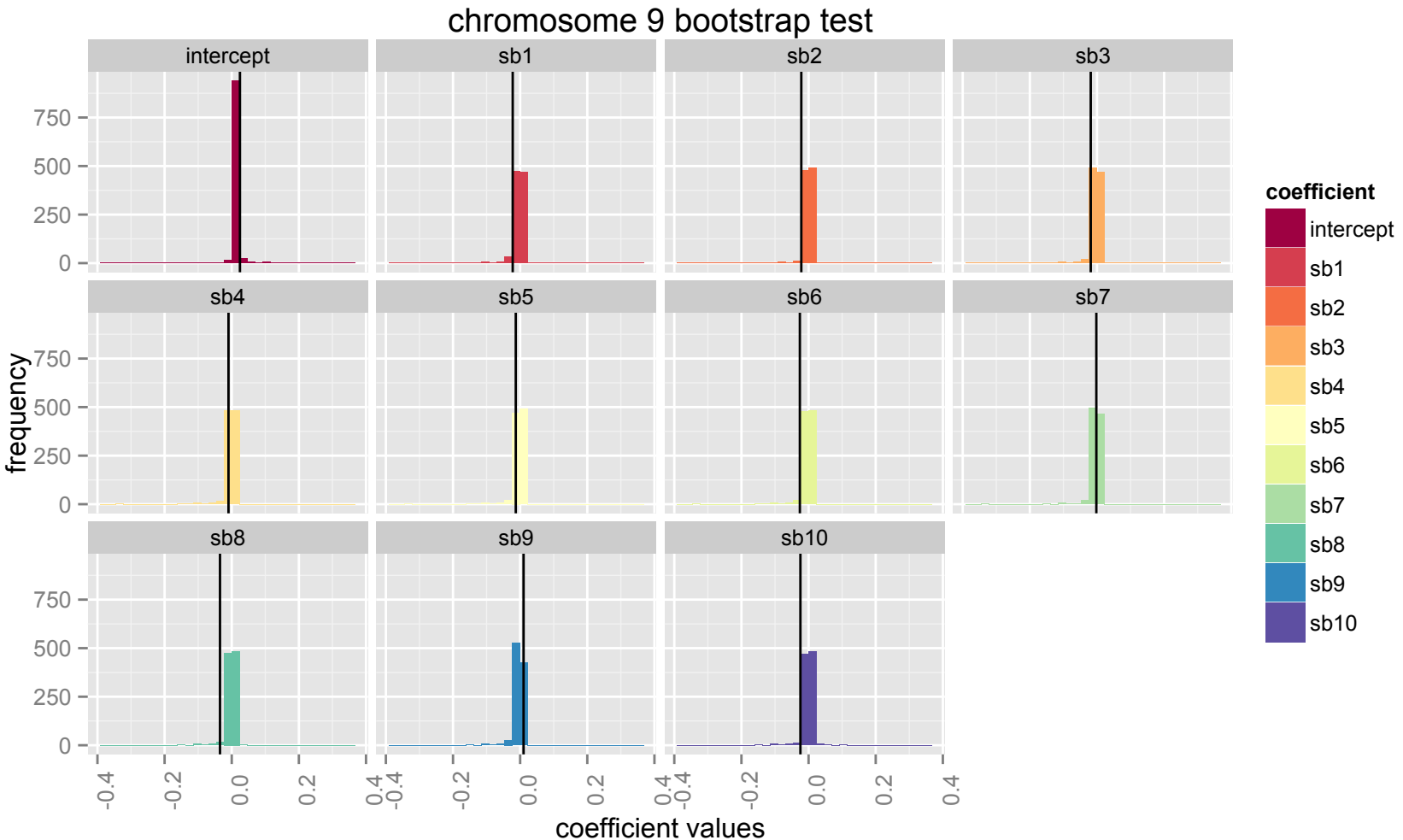
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10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sb6
sb7
sb8
sb9
sb10
frequency
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500
750
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coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
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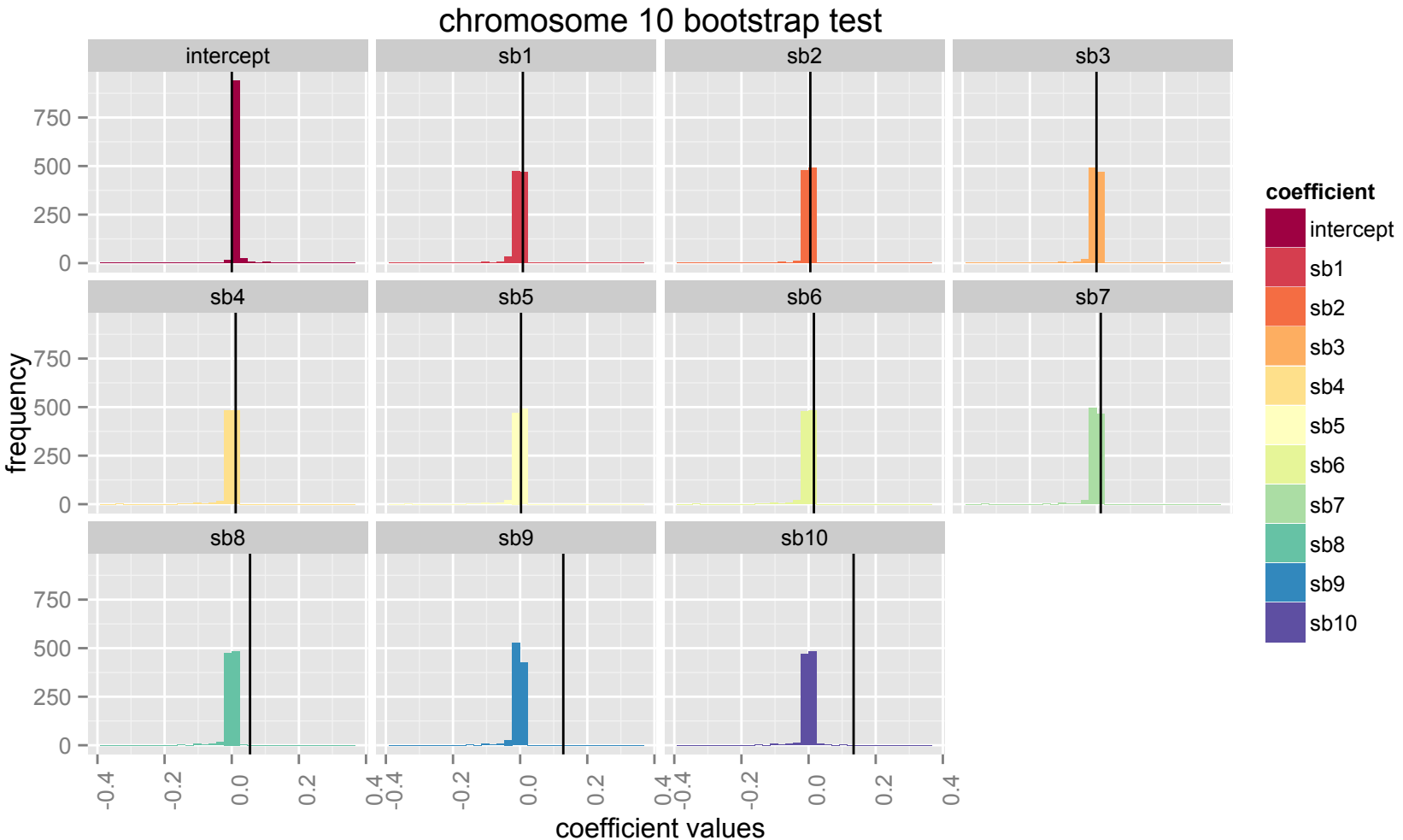
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sb5
sb6
sb7
sb8
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frequency
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750
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coefficient
intercept
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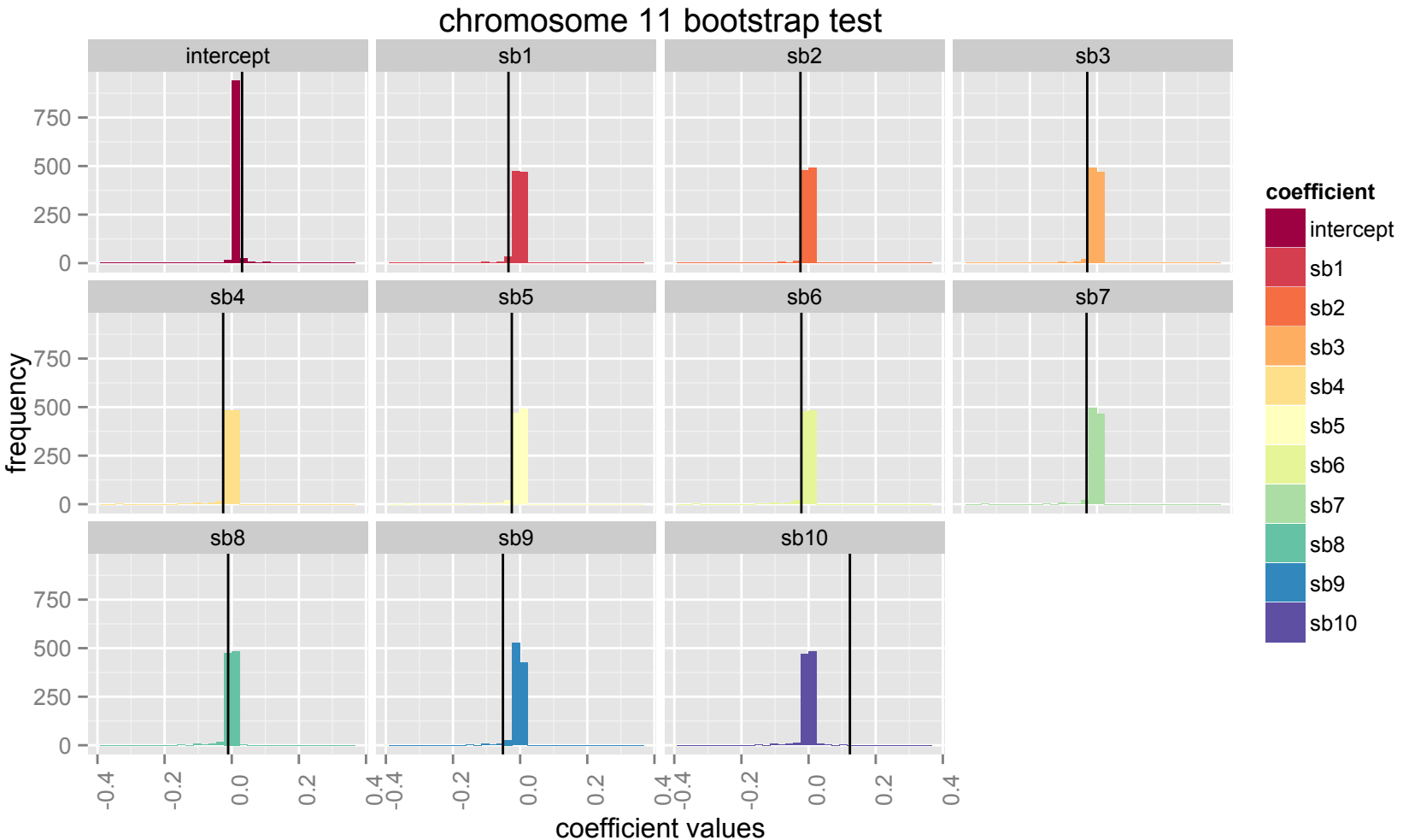
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sb7
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frequency
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500
750
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-0.2
0.0
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coefficient values
coefficient
intercept
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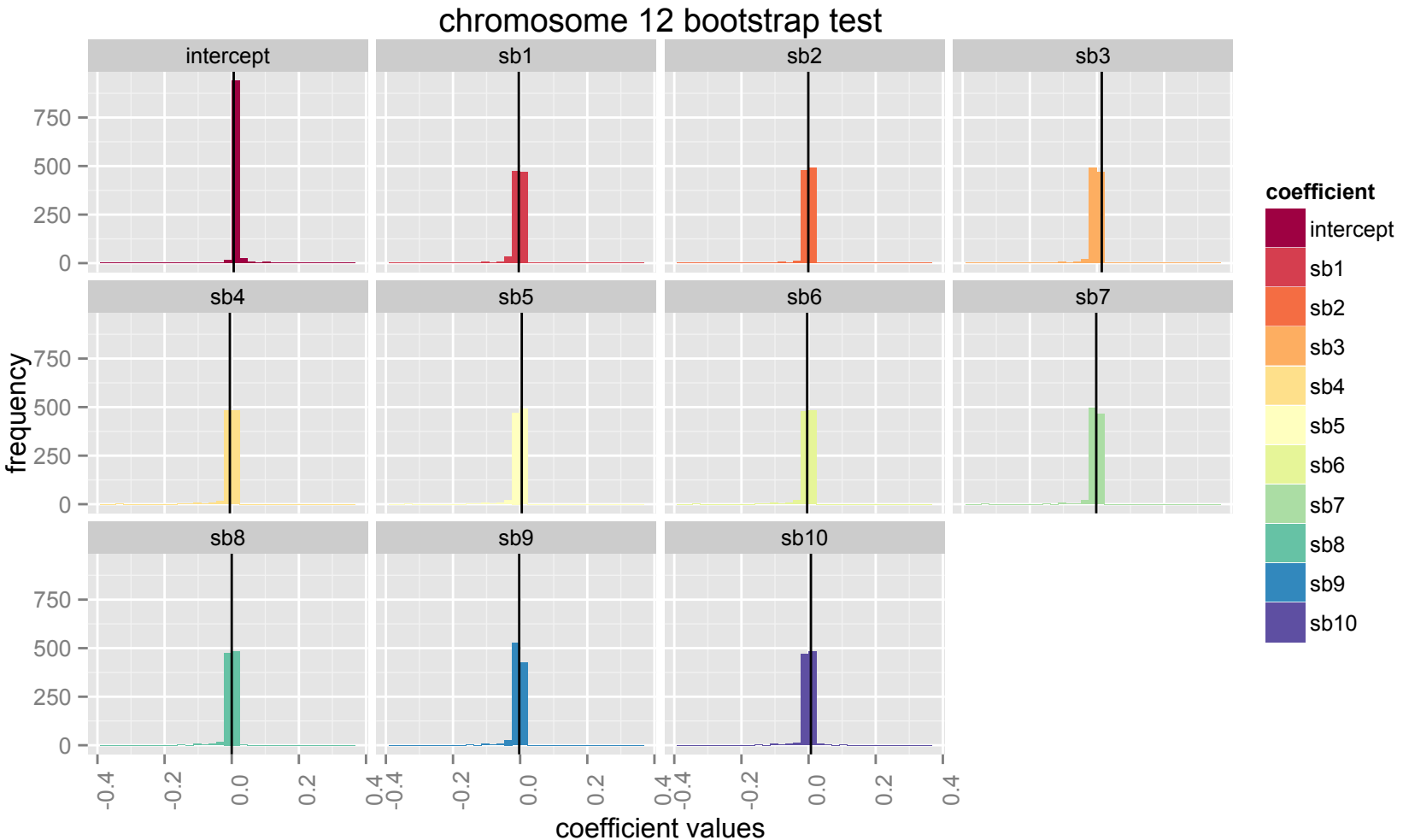
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intercept
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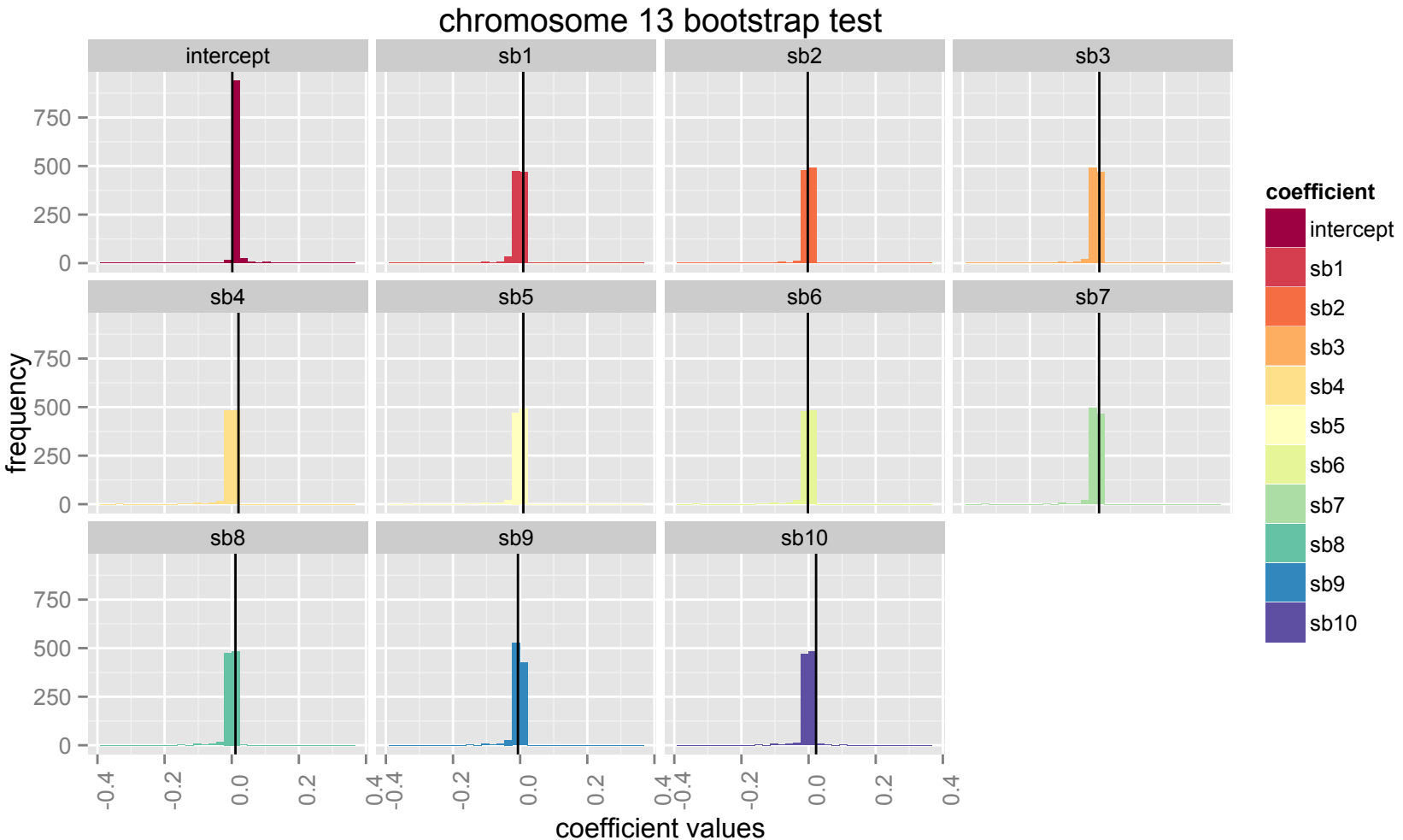
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frequency
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intercept
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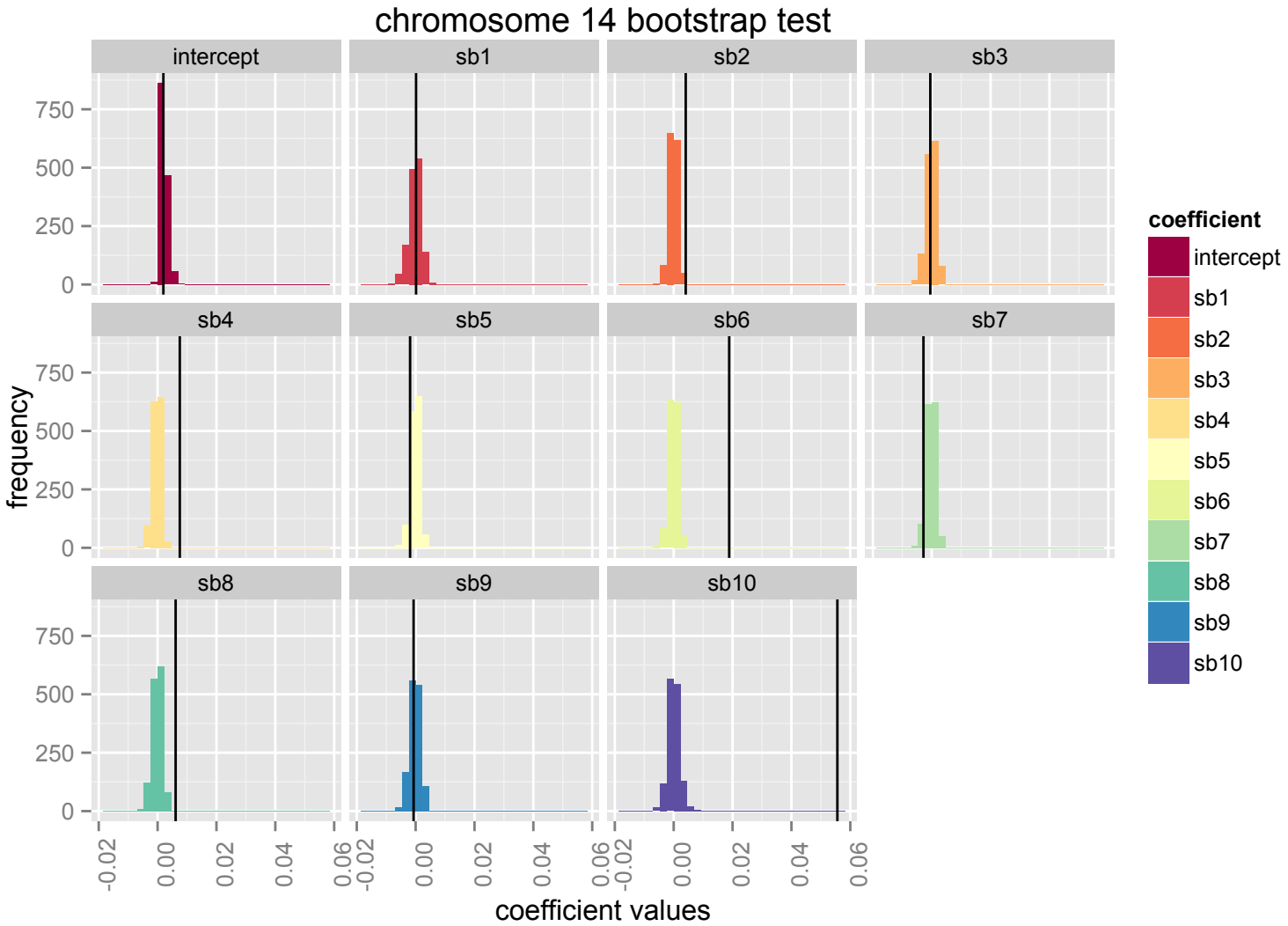
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sb9
sb10
frequency
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500
750
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0.00
0.02
0.04
0.06
coefficient values
coefficient
intercept
sb1
sb2
sb3
sb4
sb5
sb6
sb7
sb8
sb9
sb10