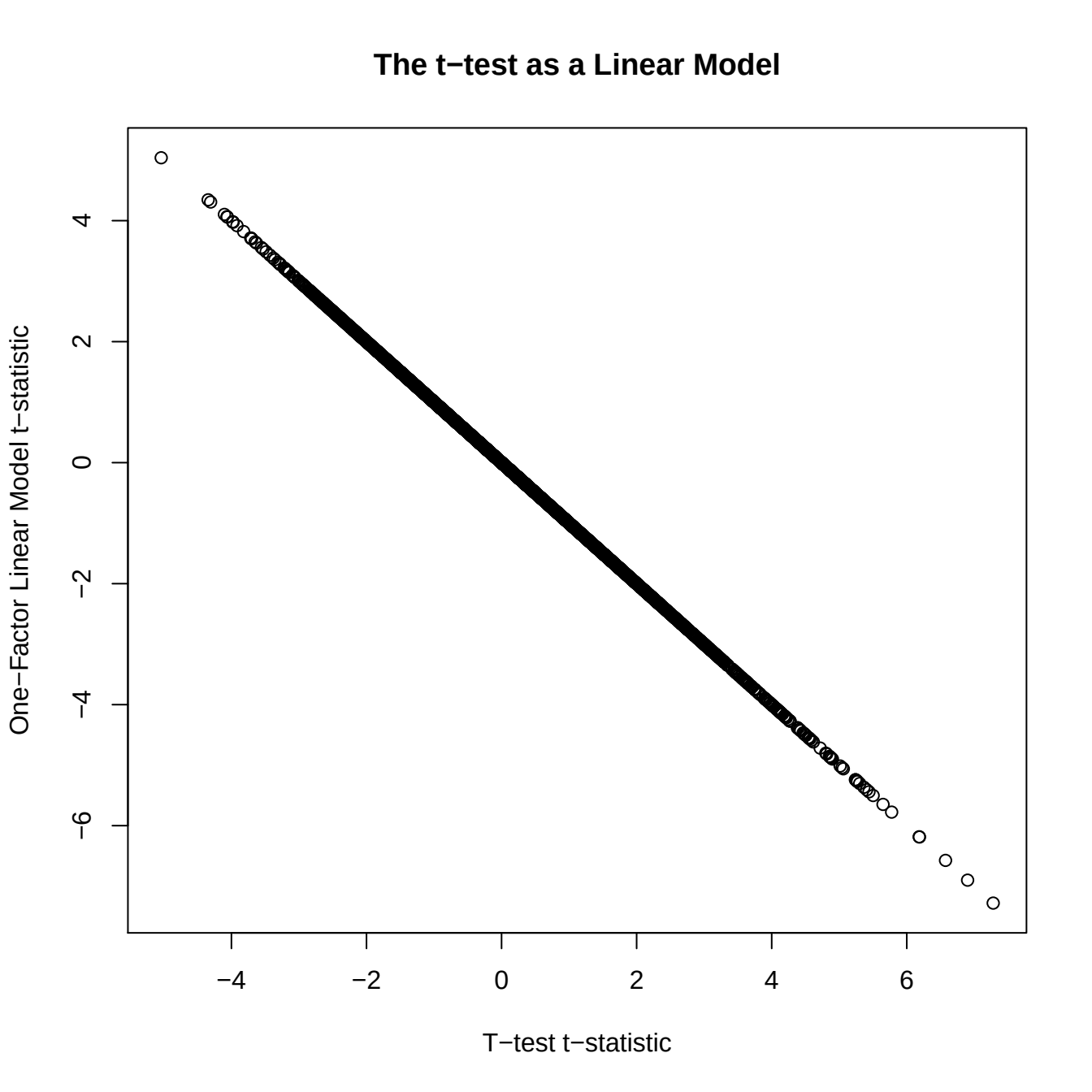
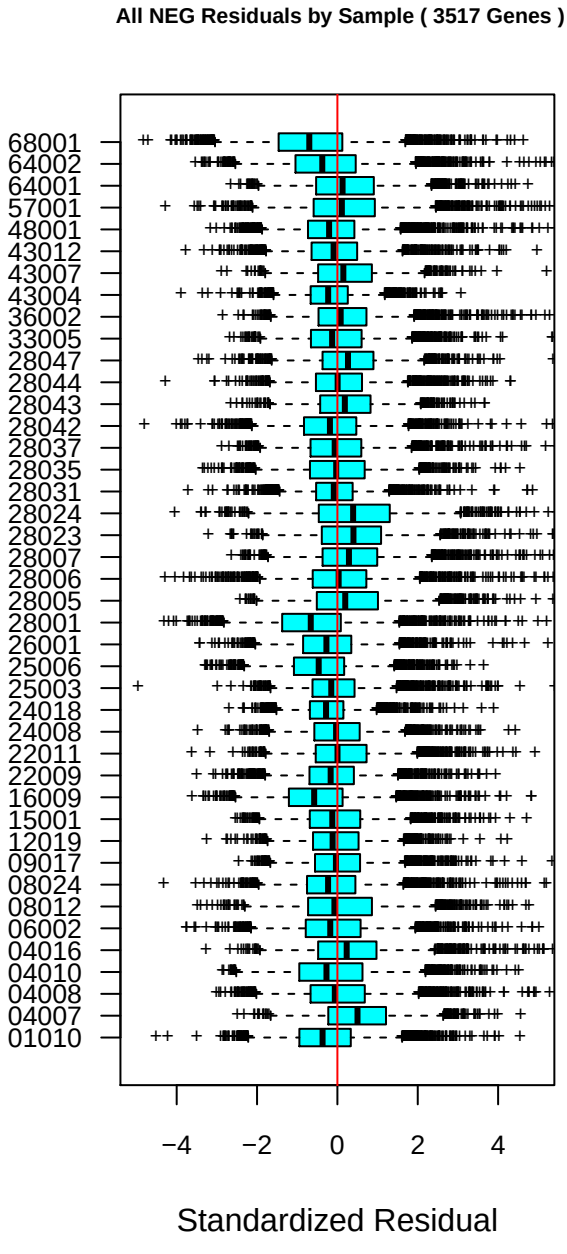
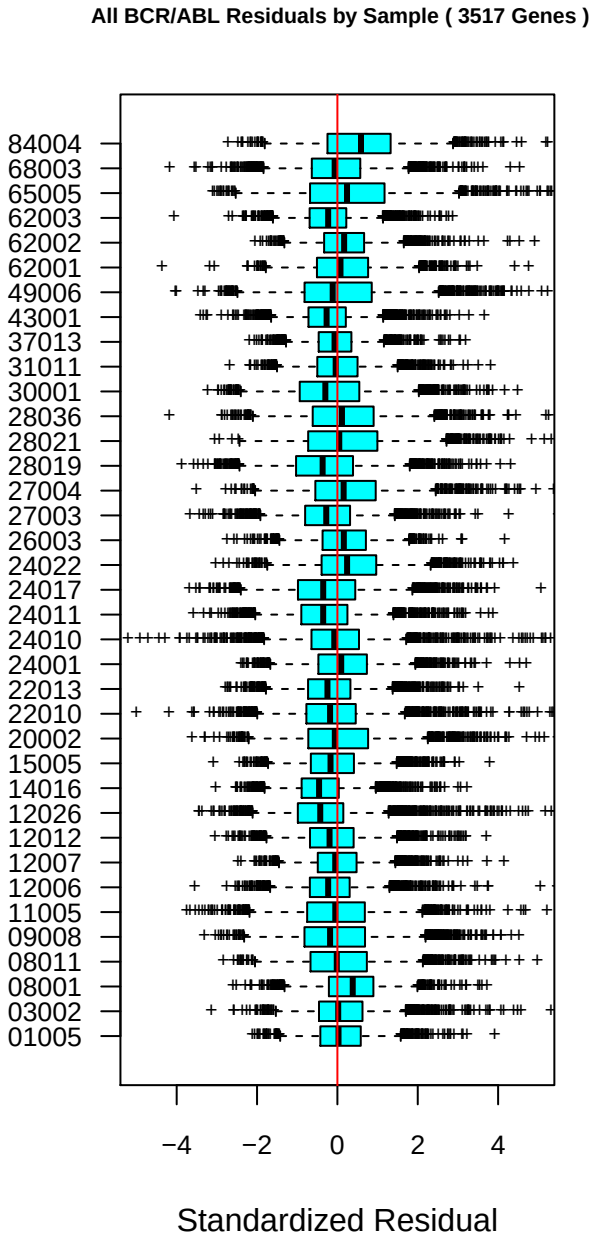
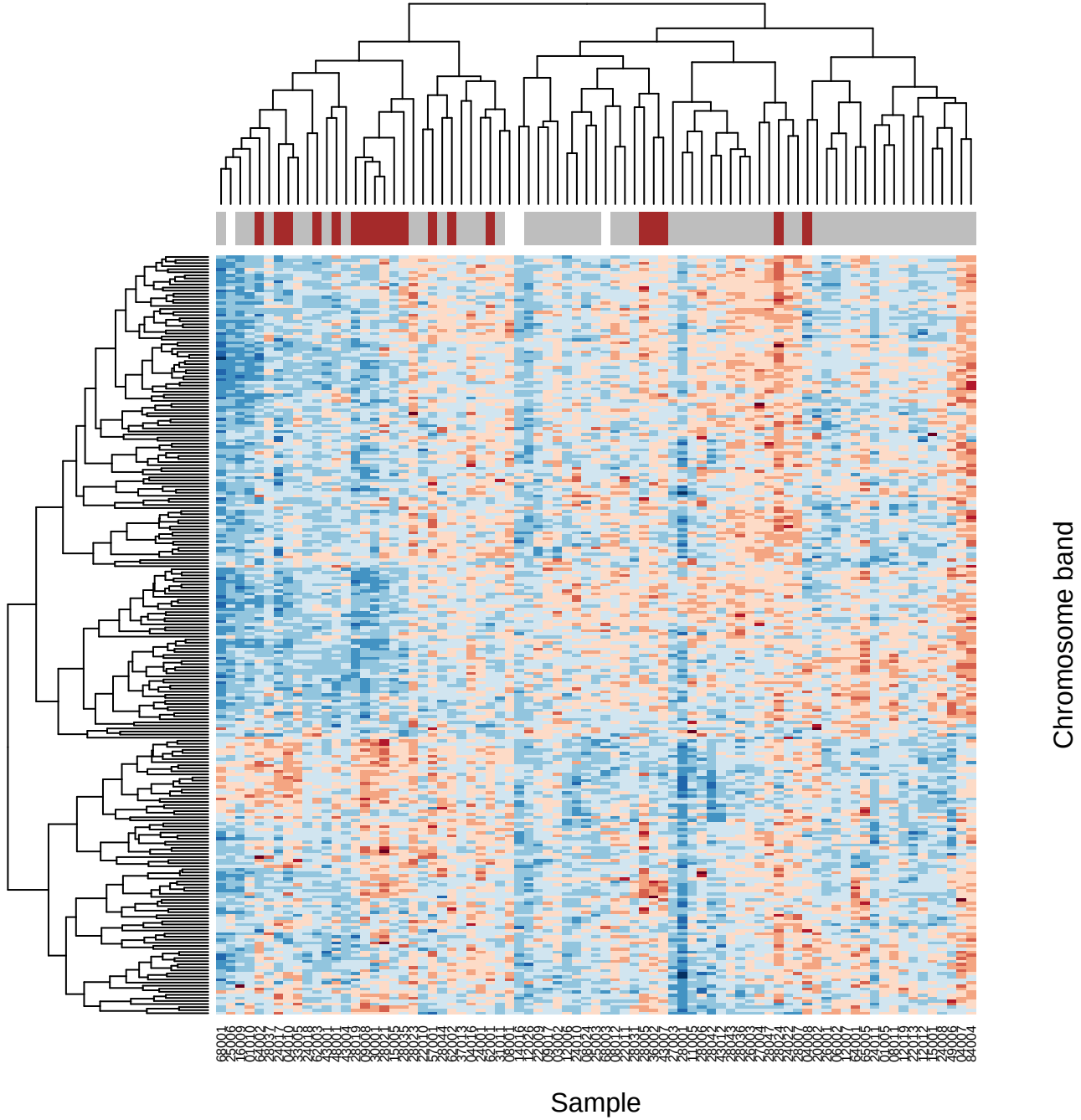
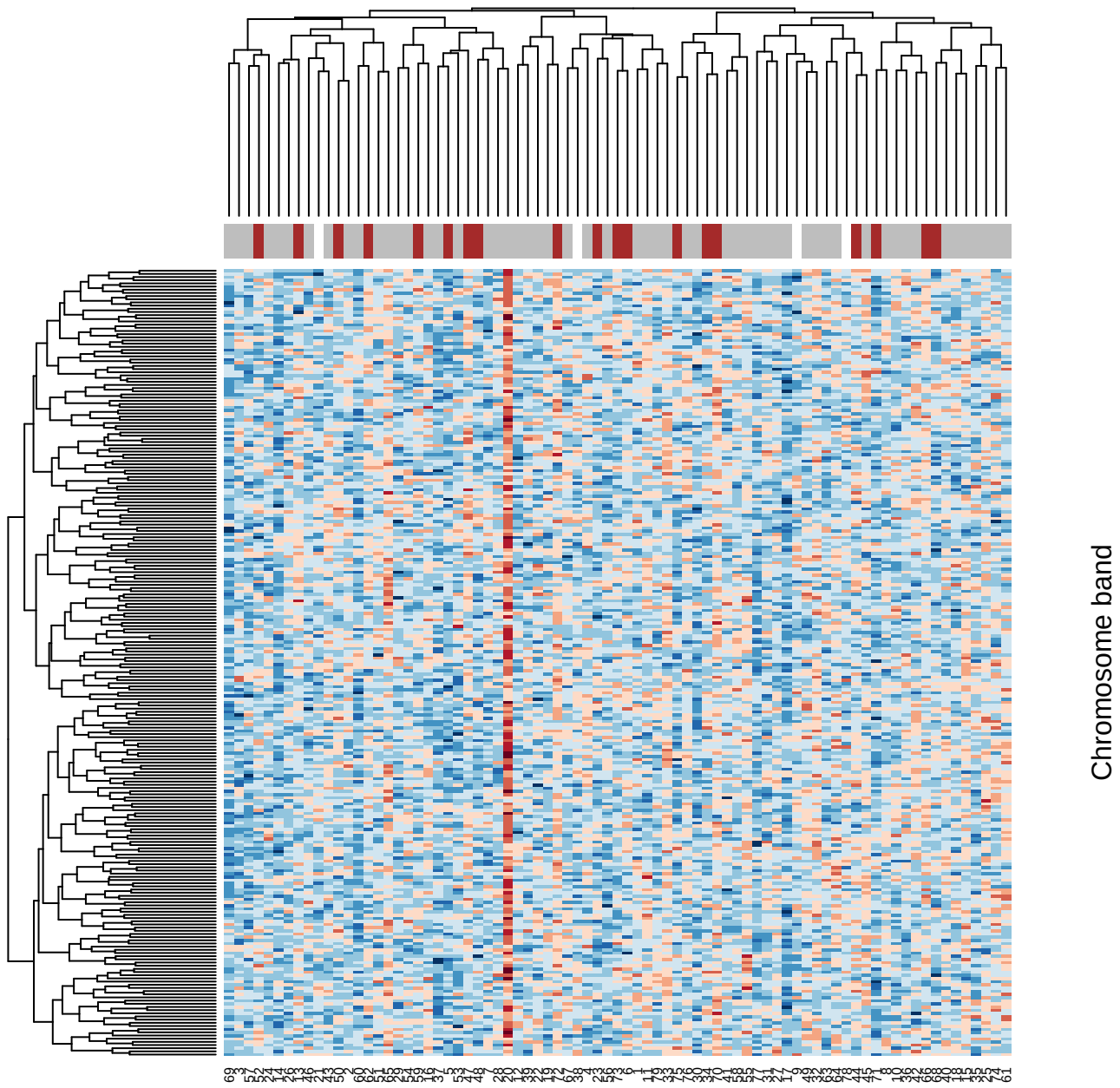
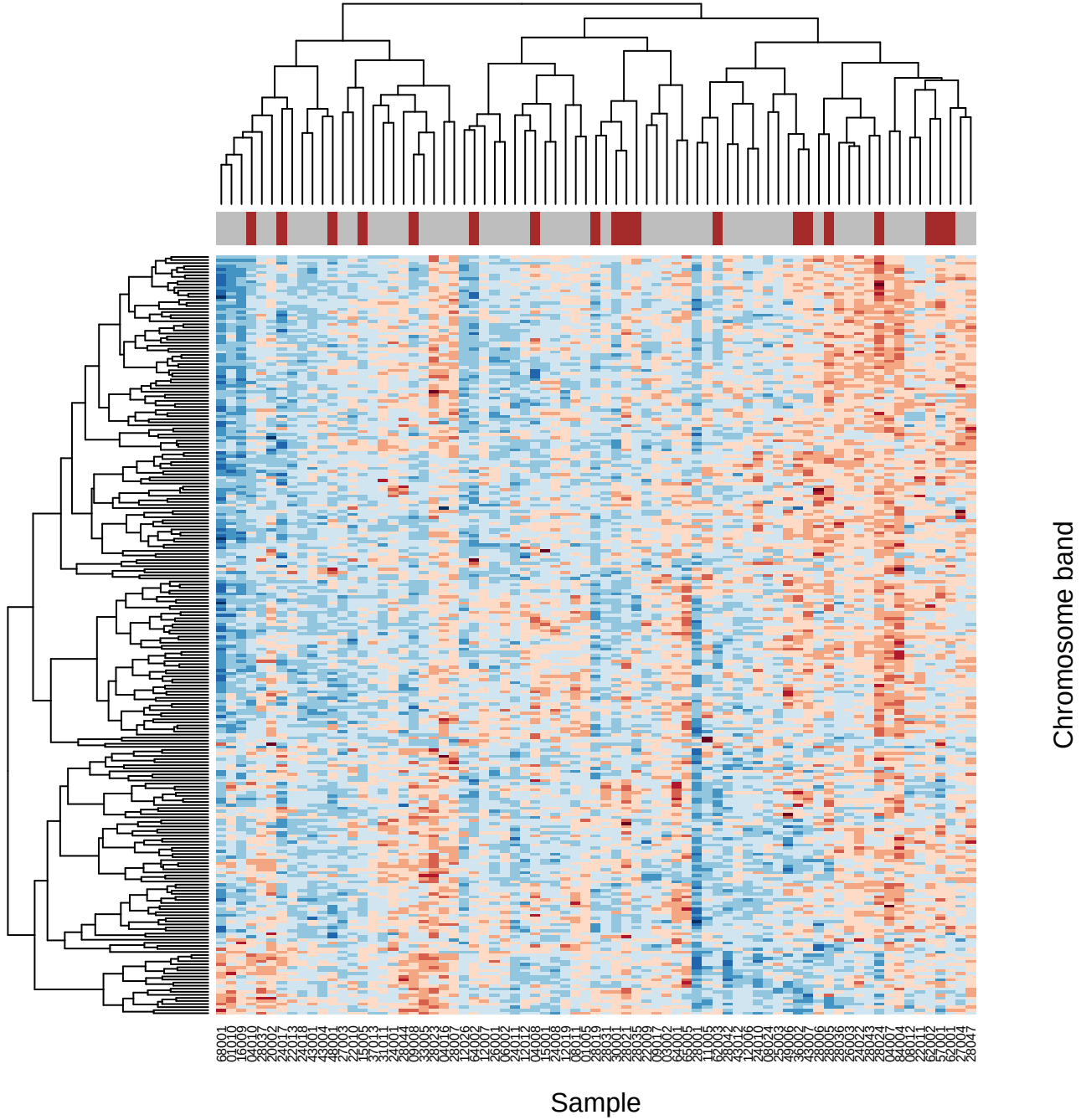

The t−test as a Linear Model
One−Factor Linear Model t−statistic
T−test t−statistic
−6
−4
−2
0
2
4
−4
−2
0
2
4
6

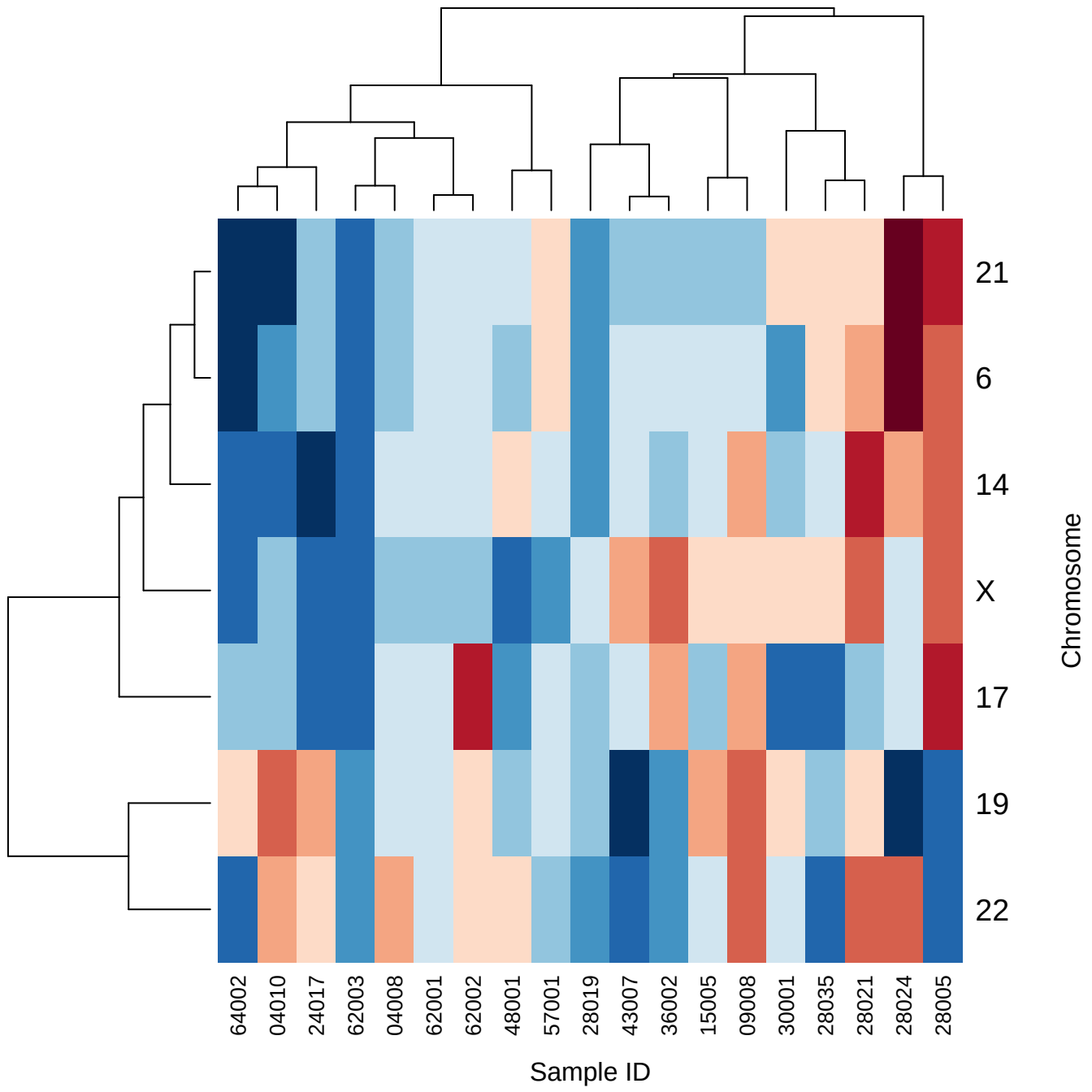

All NEG Residuals by Sample (3517 Genes)
68001
64002
64001
57001
48001
43012
43007
43004
36002
33005
28047
28044
28043
28042
28037
28035
28031
28024
28023
28007
28006
28005
28001
26001
25006
25003
24018
24008
22011
22009
16009
15001
12019
09017
08024
08012
06002
04016
04010
04008
04007
01010
−4
−2
0
2
4
Standardized Residual

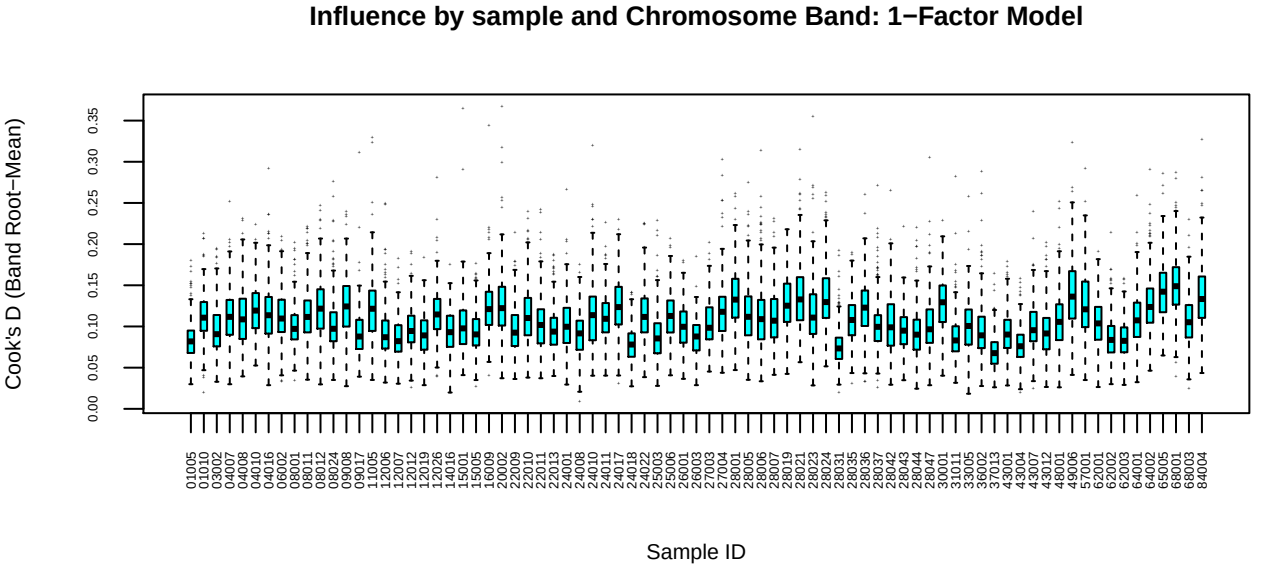

All BCR/ABL Residuals by Sample (3517 Genes)
84004
68003
65005
62003
62002
62001
49006
43001
37013
31011
30001
28036
28021
28019
27004
27003
26003
24022
24017
24011
24010
24001
22013
22010
20002
15005
14016
12026
12012
12007
12006
11005
09008
08011
08001
03002
01005
−4
−2
0
2
4
Standardized Residual

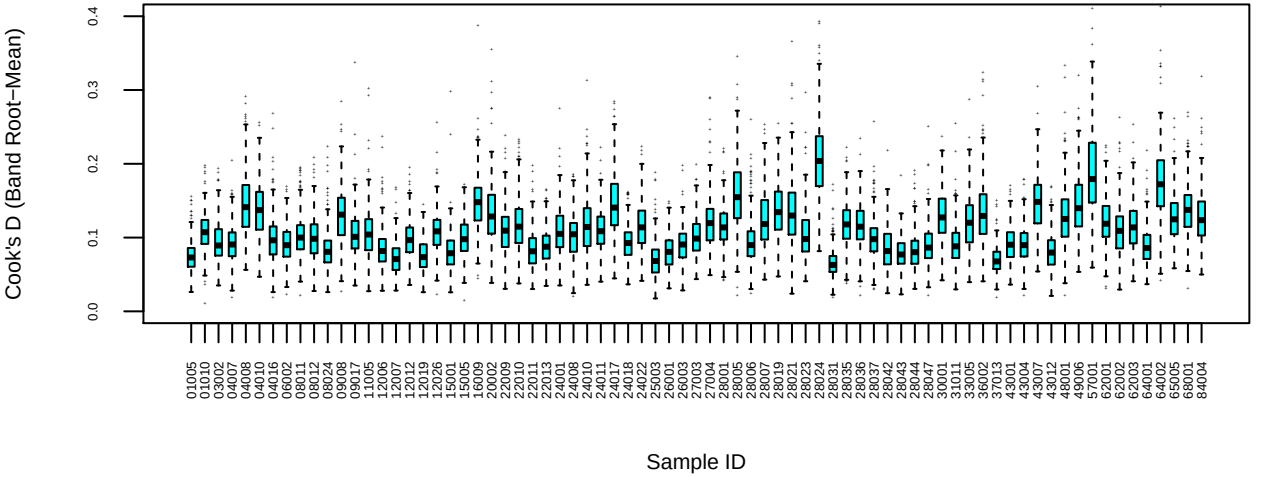

Chromosome band
Sample


Chromosome band
Sample


Chromosome band
Sample
68001
01010
16009
04010
26037
21002
22013
24018
43001
43004
48001
27003
12000
37013
31011
24001
28044
09008
38023
04016
28007
12026
64002
12007
66001
20012
12012
04008
15001
24008
16019
01005
28019
28031
30001
28021
28035
26009
03002
64001
65005
28001
11005
52003
43012
12006
24010
08024
25003
49006
39007
28006
28036
26003
24024
28023
04067
84004
08012
22011
52002
57001
27004
28047


21
6
14
X
17
19
22
Chromosome
64002
04010
24017
62003
04008
62001
62002
48001
57001
28019
43007
36002
15005
09008
30001
28035
28021
28024
28005
Sample ID


Influence by sample and Chromosome Band: 1−Factor Model
Cook's D (Band Root−Mean)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
01005
01010
03002
04007
04008
04010
04016
06002
08011
08012
08024
09008
09017
11005
12006
12007
12012
12019
12026
14016
15001
15005
16009
20002
22009
22010
22011
22013
24001
24008
24010
24011
24017
24018
24022
25003
25006
26001
26003
27003
27004
28001
28005
28006
28007
28019
28021
28023
28024
28031
28035
28036
28037
28042
28043
28044
28047
30001
31011
33005
36002
37013
43001
43004
43007
43012
48001
49006
57001
62001
62002
62003
64001
64002
65005
68001
68003
84004
Sample ID


Influence by Sample and Chromosome Band: 3−Factor Model
Cook's D (Band Root−Mean)
0.0
0.1
0.2
0.3
0.4
01005
01010
03002
04007
04008
04010
04016
06002
08011
08012
08024
09008
09017
11005
12006
12007
12012
12019
12026
15001
15005
16009
20002
22009
22010
22011
22013
24001
24008
24010
24011
24017
24018
24022
25003
26001
26003
27003
27004
28001
28005
28006
28007
28019
28021
28023
28024
28031
28035
28036
28037
28042
28043
28044
28047
30001
31011
33005
36002
37013
43001
43004
43007
43012
48001
49006
57001
62001
62002
62003
64001
64002
65005
68001
68003
84004
Sample ID