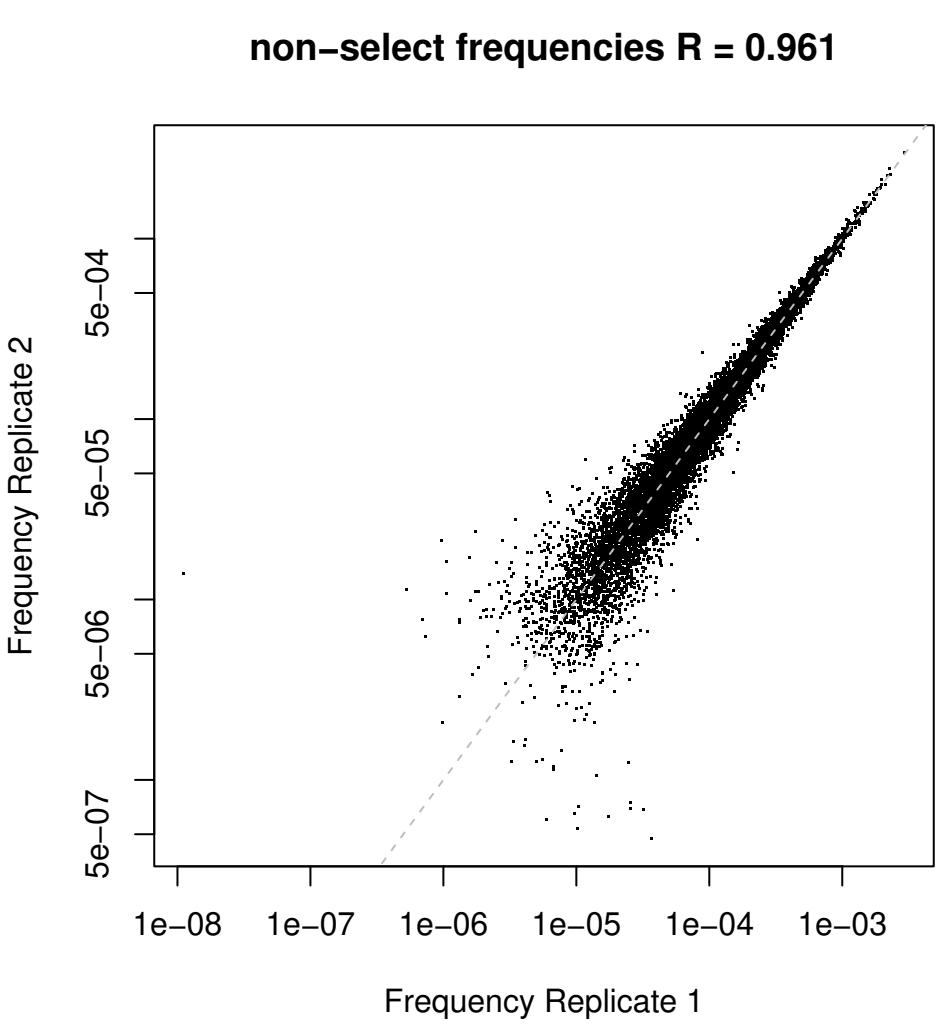
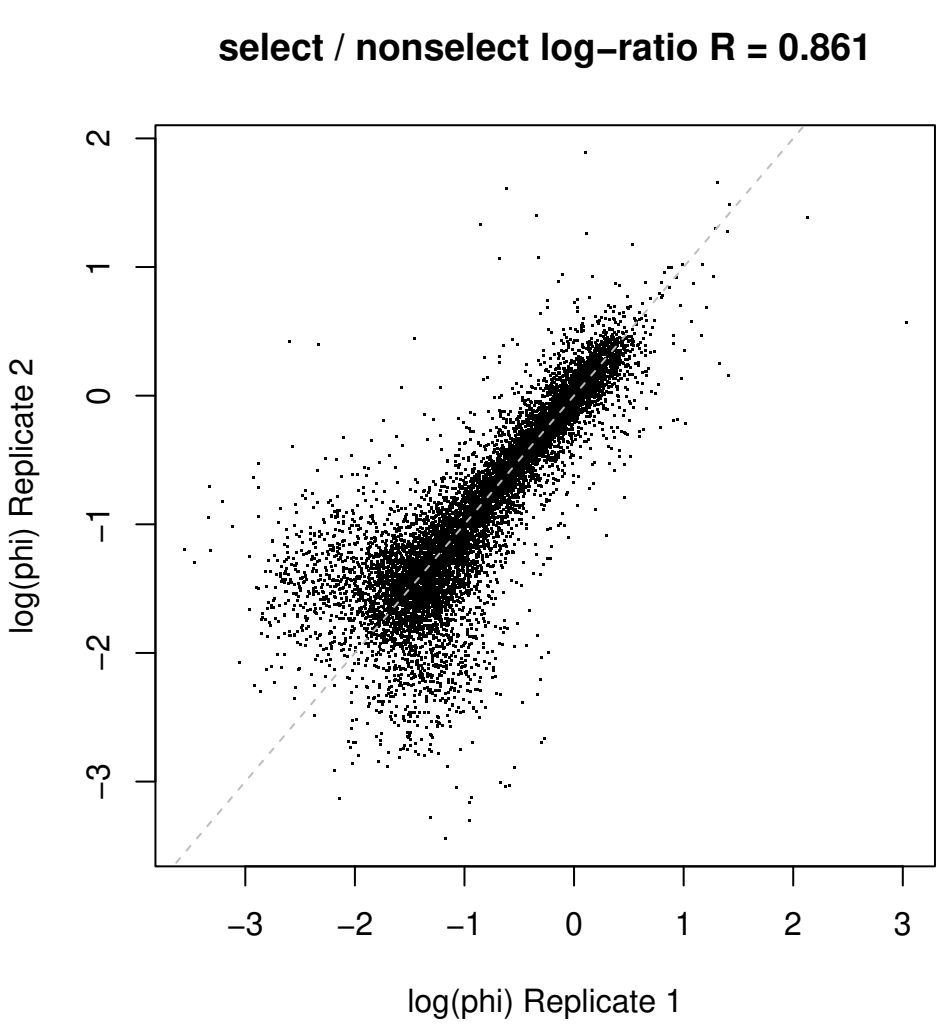
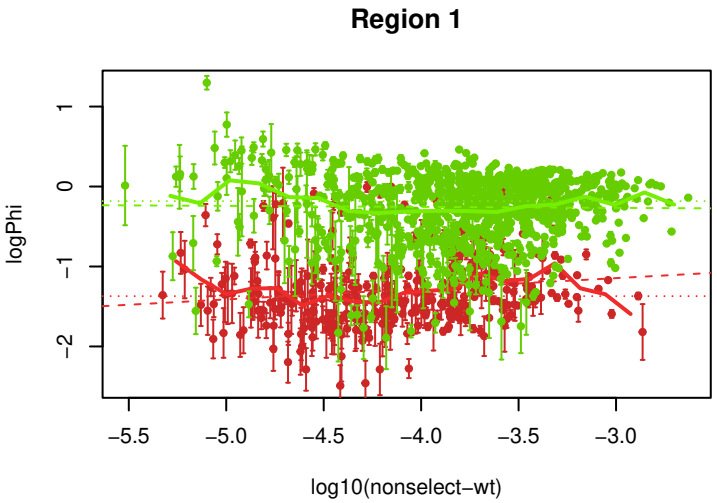
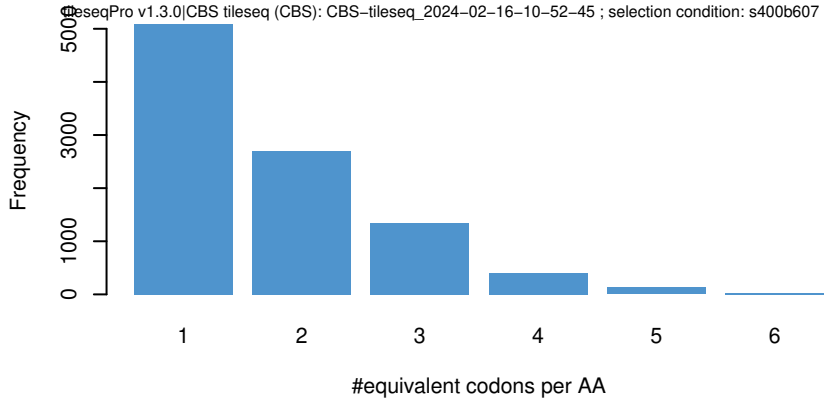
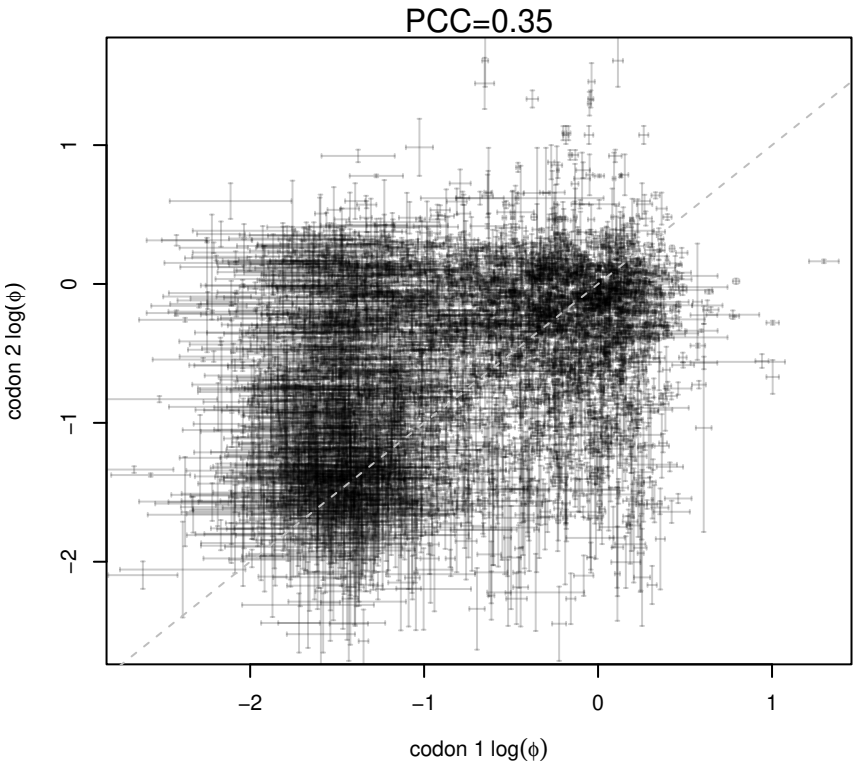
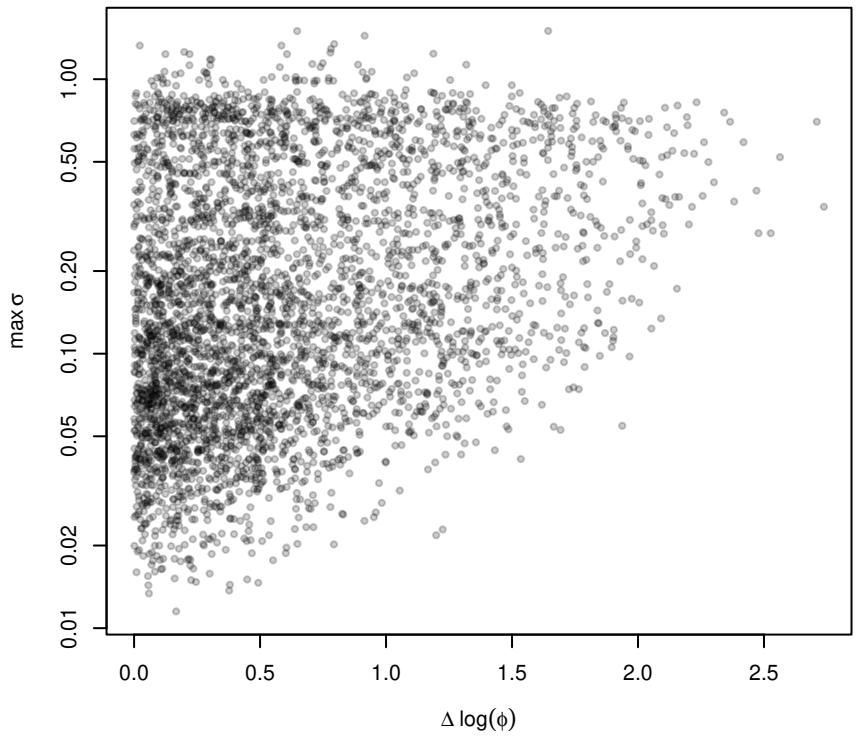

non−select frequencies R = 0.961
Frequency Replicate 2
5e−04
5e−05
5e−06
5e−07
1e−08
1e−07
1e−06
1e−05
1e−04
1e−03
Frequency Replicate 1


select / nonselect log−ratio R = 0.861
log(phi) Replicate 2
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
log(phi) Replicate 1

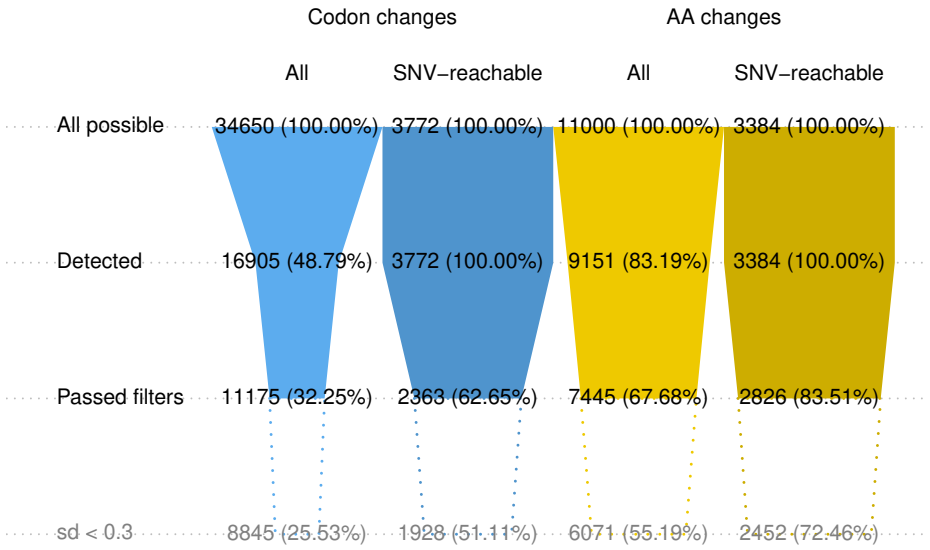

Region 1
logPhi
1
0
−1
−2
−5.5
−5.0
−4.5
−4.0
−3.5
−3.0
log10(nonselect−wt)


tileseqPro v1.3.0|CBS tileseq (CBS): CBS−tileseq_2024−02−16−10−52−45 ; selection condition: s400b607
Frequency
0
1000
3000
5000
1
2
3
4
5
6
#equivalent codons per AA

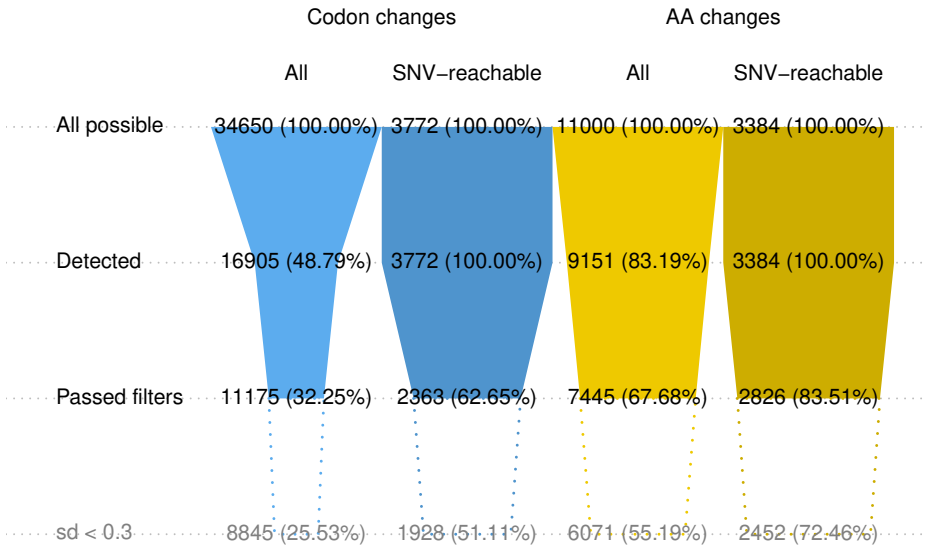

PCC=0.35
codon 2 log(ϕ)
−2
−1
0
1
codon 1 log(ϕ)

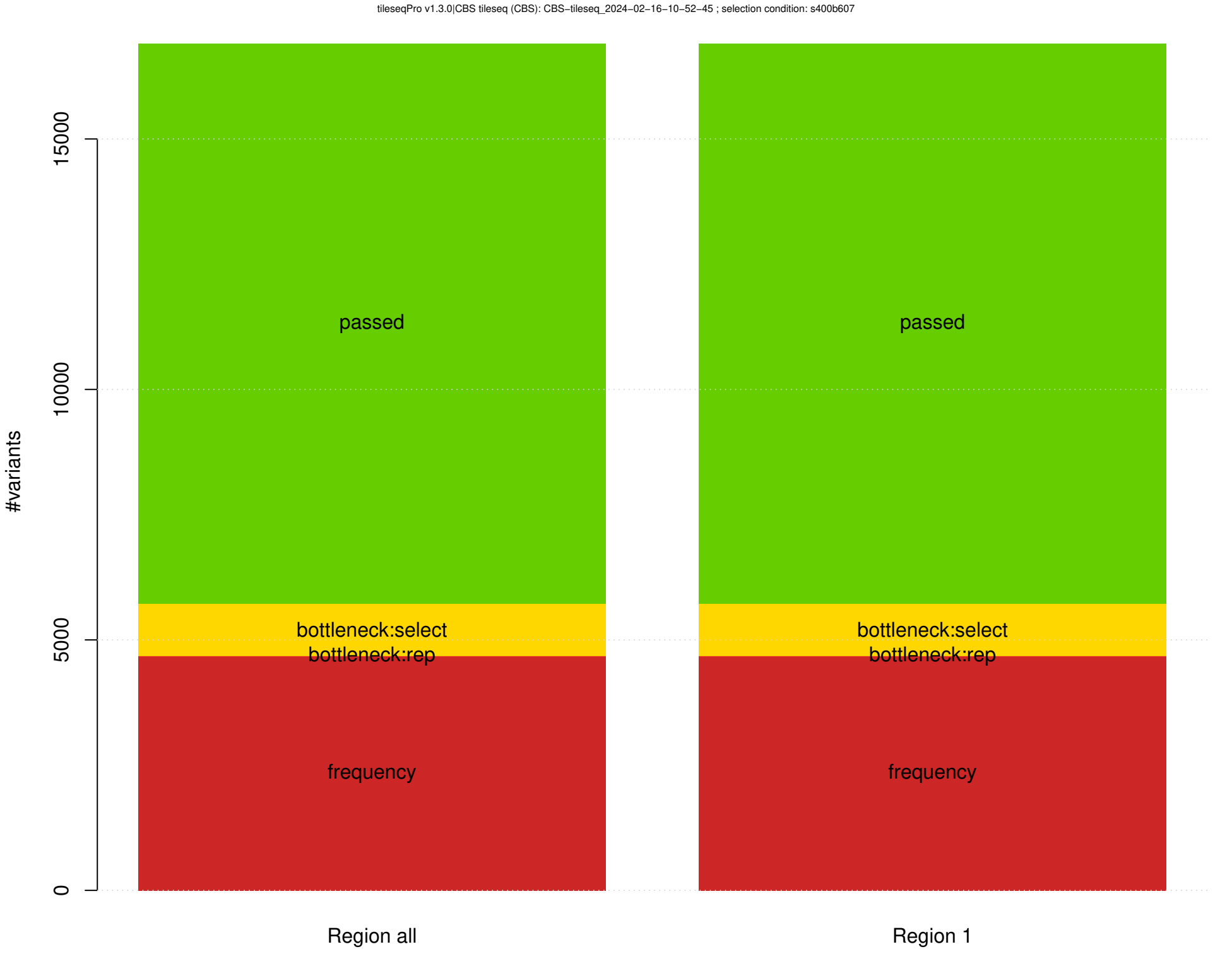

max σ
0.01
0.02
0.05
0.10
0.20
0.50
1.00
0.0
0.5
1.0
1.5
2.0
2.5
Δ log(ϕ)

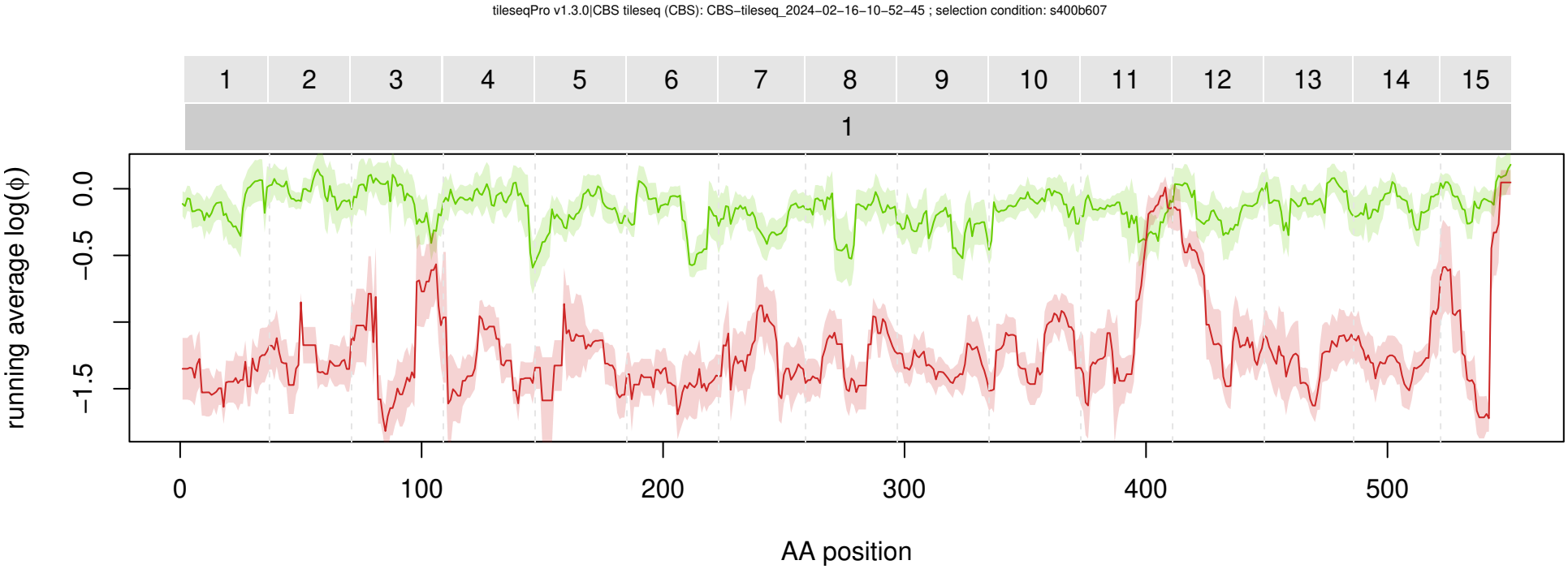
## Entire Construct

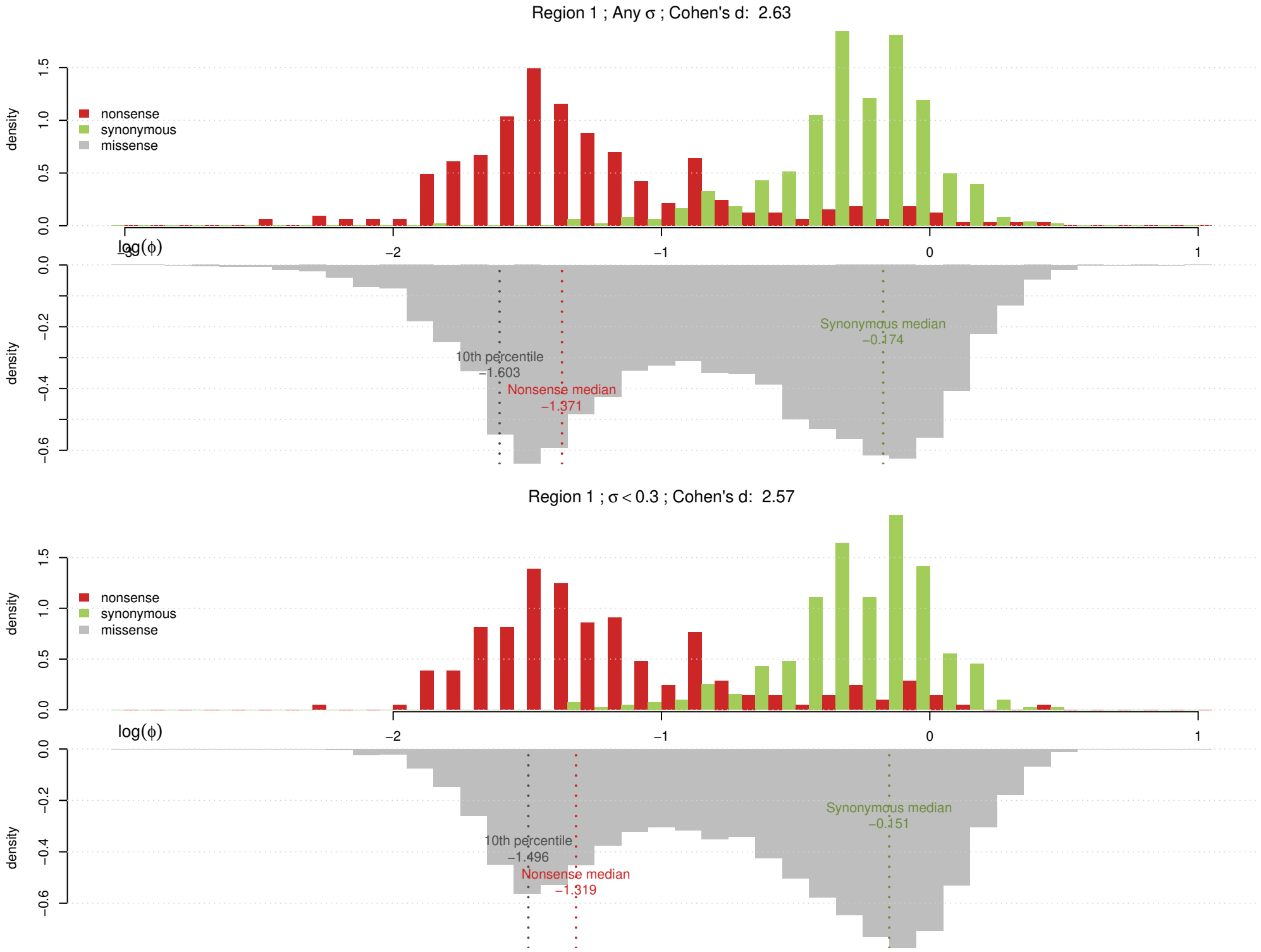


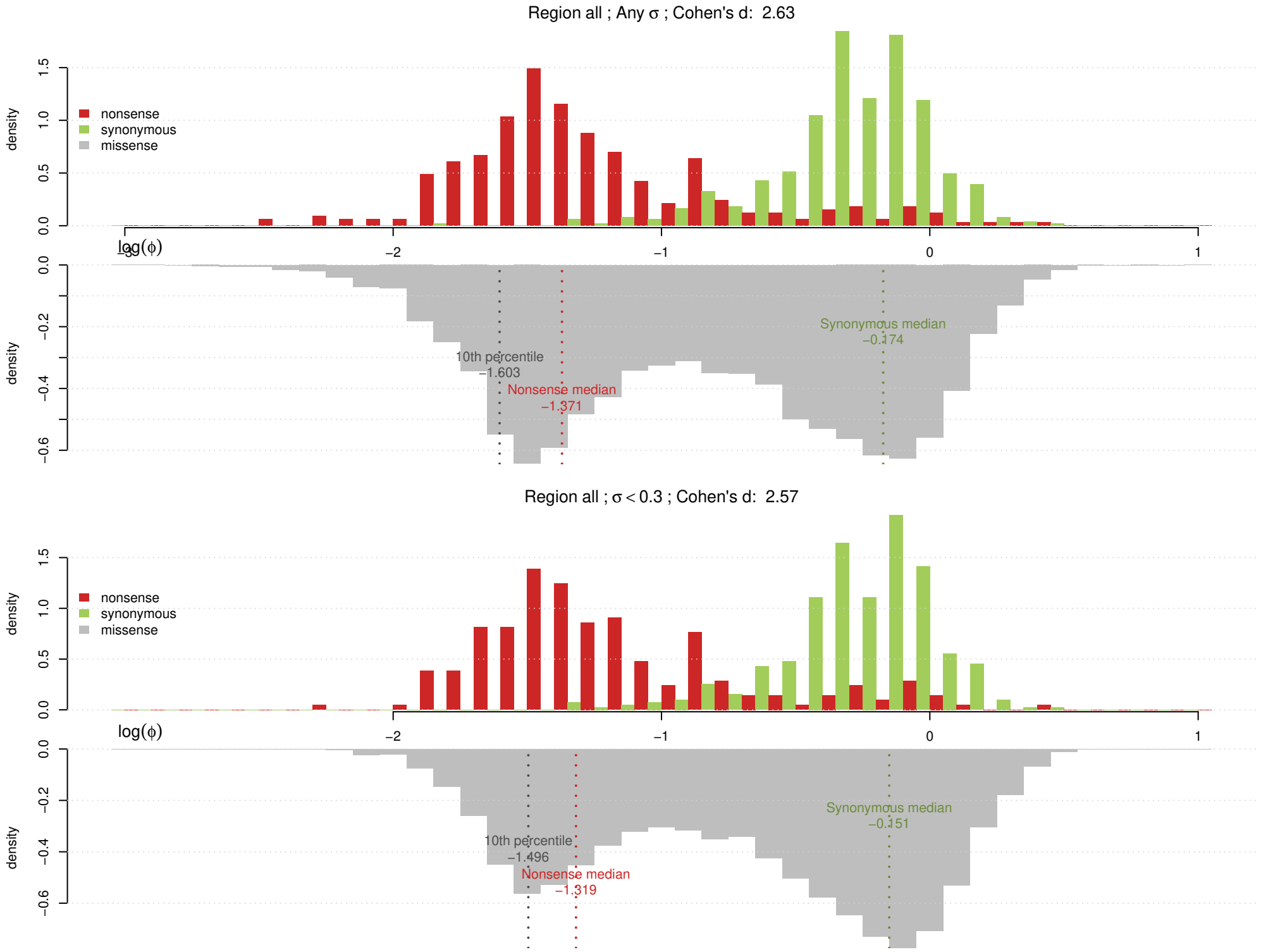

## Region #1

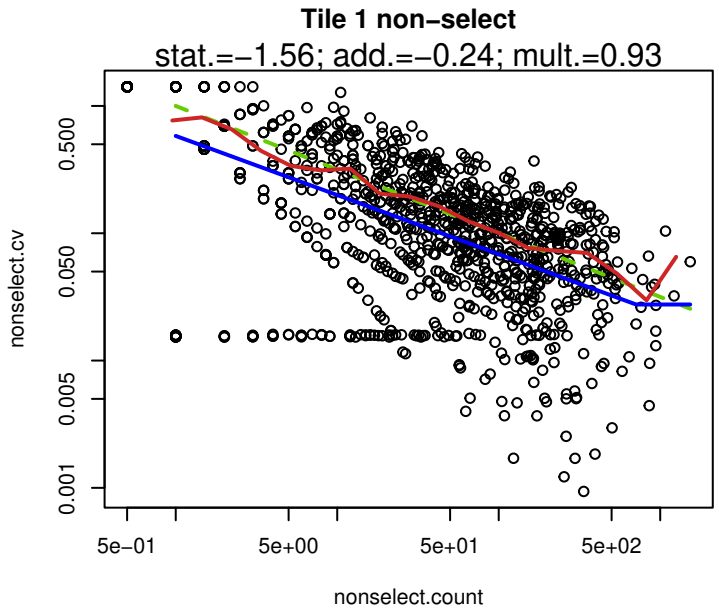


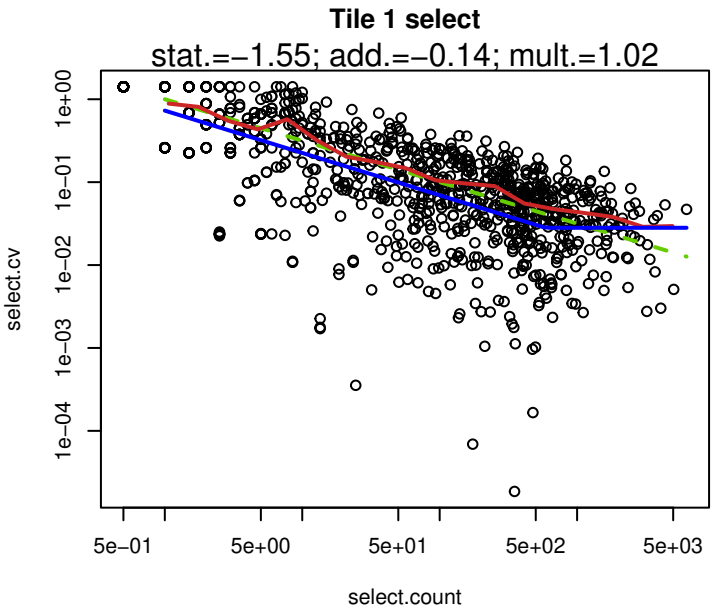

tileseqPro v1.3.0|CBS tileseq (CBS): CBS−tileseq_2024−02−16−10−52−45 ; selection condition: s400b607
#variants
0
5000
10000
15000
passed
bottleneck:select
bottleneck:rep
frequency
passed
bottleneck:select
bottleneck:rep
frequency
Region all
Region 1

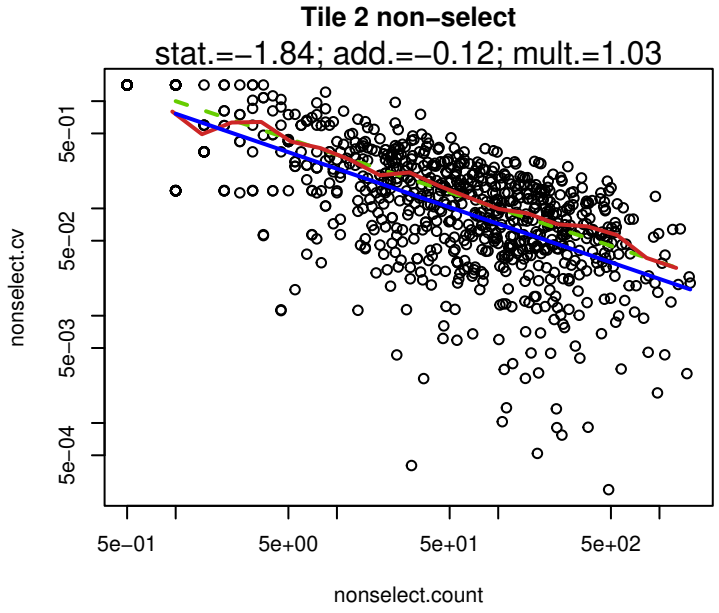

tileseqPro v1.3.0|CBS tileseq (CBS): CBS−tileseq_2024−02−16−10−52−45 ; selection condition: s400b607
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
1
running average log(ϕ)
0.0
−0.5
−1.5
0
100
200
300
400
500
AA position

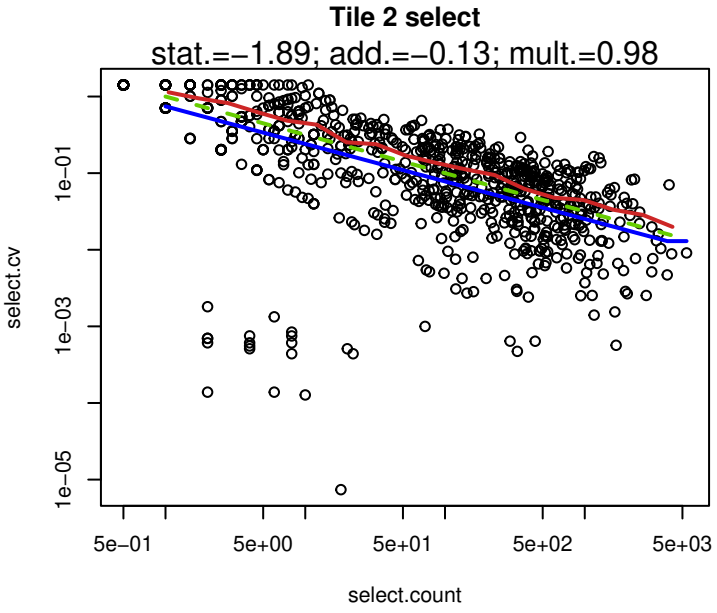

Region 1 ; Any σ ; Cohen's d: 2.63
nonsense
synonymous
missense
density
log(ϕ)
10th percentile
−1.603
Nonsense median
−1.371
Synonymous median
−0.174
Region 1 ; σ < 0.3 ; Cohen's d: 2.57
nonsense
synonymous
missense
density
log(ϕ)
10th percentile
−1.496
Nonsense median
−1.319
Synonymous median
−0.151

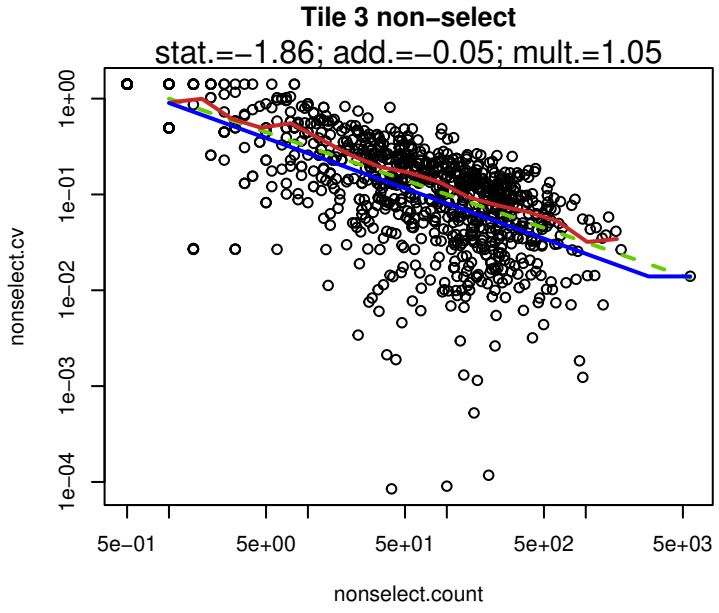

Region all ; Any σ ; Cohen's d: 2.63
density
nonsense
synonymous
missense
log(ϕ)
10th percentile
−1.603
Nonsense median
−1.371
Synonymous median
−0.174
Region all ; σ < 0.3 ; Cohen's d: 2.57
density
nonsense
synonymous
missense
log(ϕ)
10th percentile
−1.496
Nonsense median
−1.319
Synonymous median
−0.151

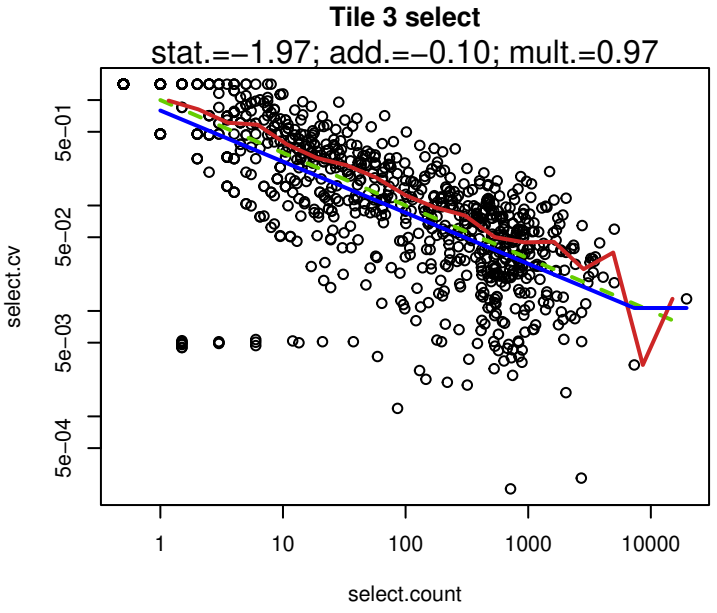

Tile 1 non−select
stat.=−1.56; add.=−0.24; mult.=0.93
nonselect.cv
0.500
0.050
0.005
0.001
5e−01
5e+00
5e+01
5e+02
nonselect.count

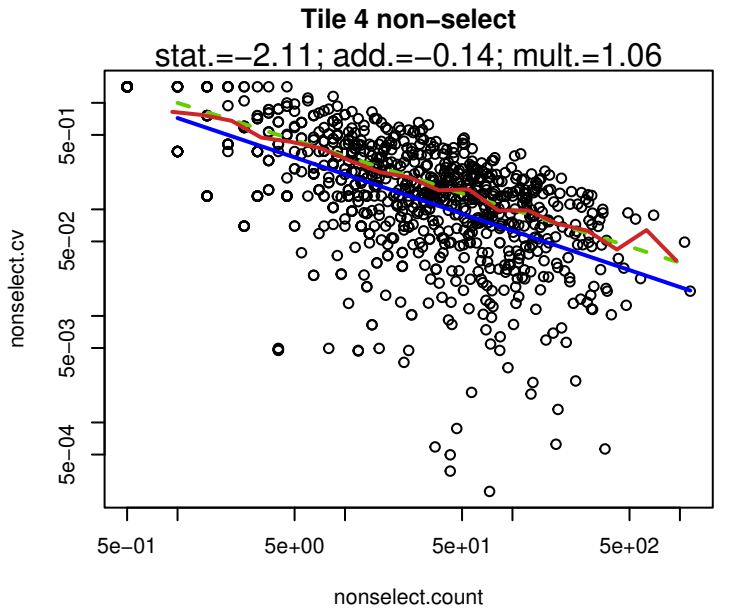

Tile 1 select
stat.=−1.55; add.=−0.14; mult.=1.02
select.cv
1e+00
1e−01
1e−02
1e−03
1e−04
5e−01
5e+00
5e+01
5e+02
5e+03
select.count

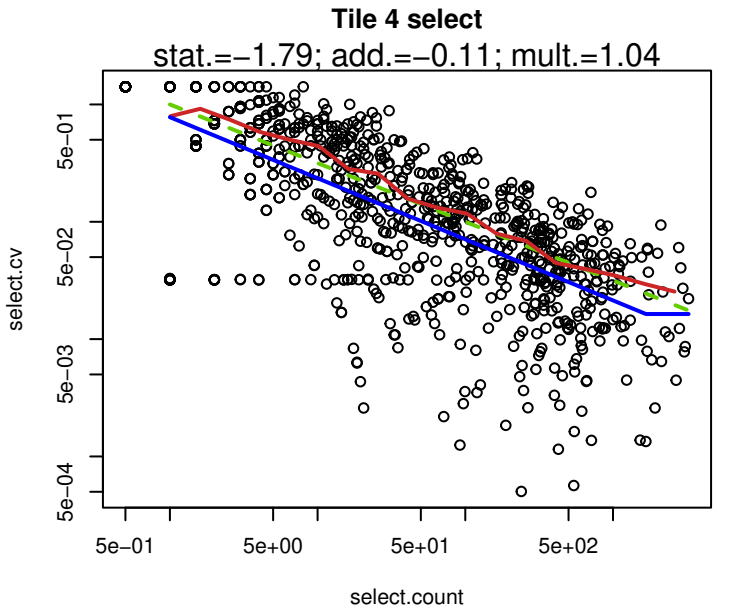

Tile 2 non−select
stat.=−1.84; add.=−0.12; mult.=1.03
nonselect.cv
5e−01
5e−02
5e−03
5e−04
5e−01
5e+00
5e+01
5e+02
nonselect.count

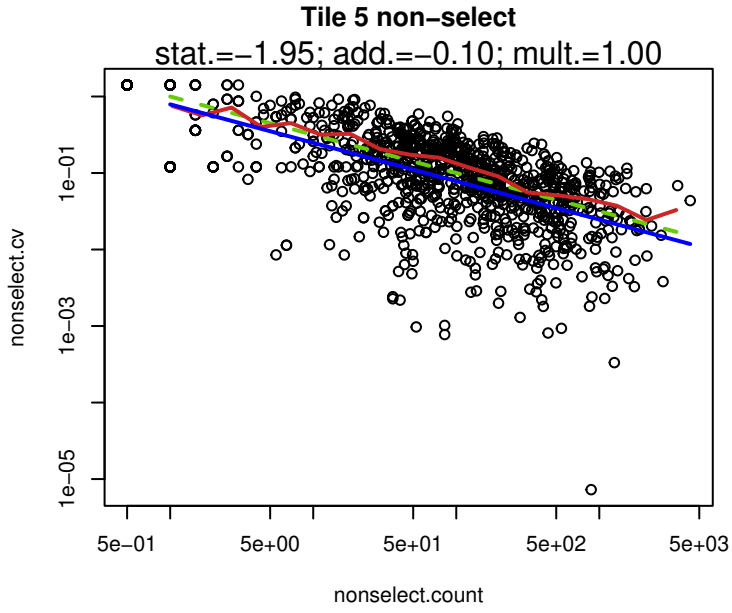

Tile 2 select
stat.=−1.89; add.=−0.13; mult.=0.98
select.cv
1e−01
1e−03
1e−05
5e−01
5e+00
5e+01
5e+02
5e+03
select.count

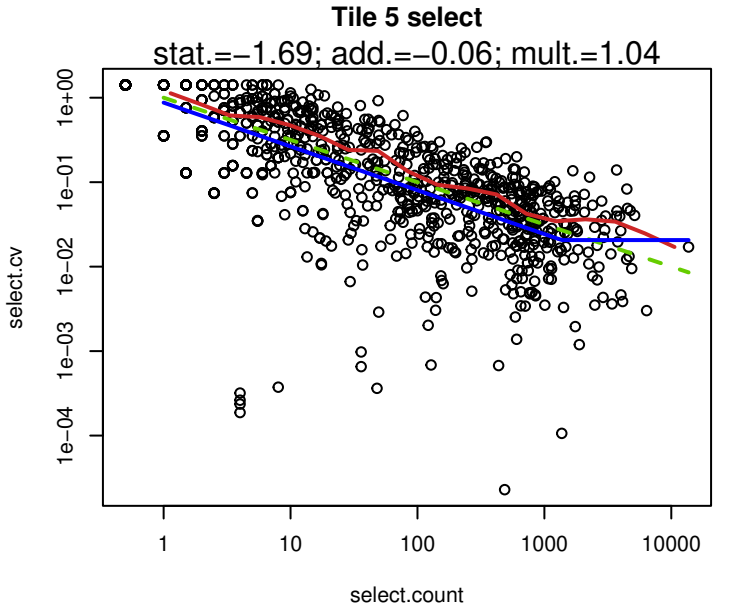

Tile 3 non−select
stat.=−1.86; add.=−0.05; mult.=1.05
nonselect.cv
1e+00
1e−01
1e−02
1e−03
1e−04
5e−01
5e+00
5e+01
5e+02
5e+03
nonselect.count

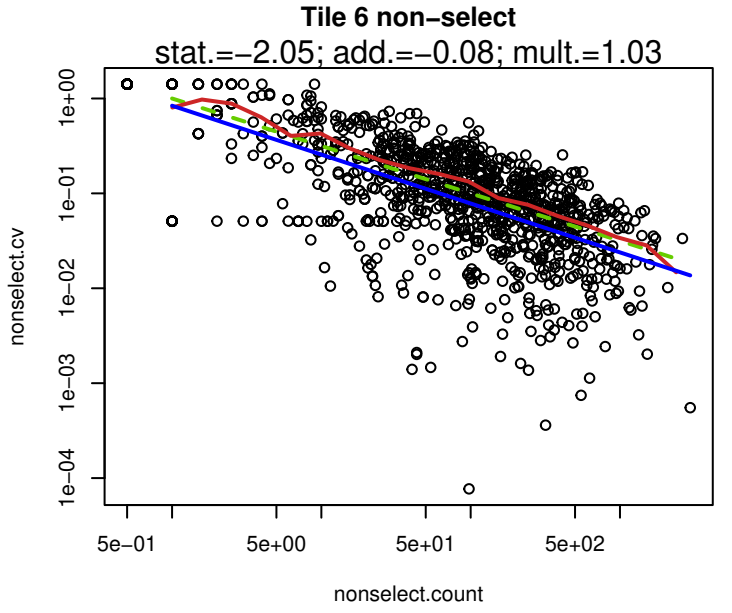

Tile 3 select
stat.=−1.97; add.=−0.10; mult.=0.97
select.cv
5e−01
5e−02
5e−03
5e−04
1
10
100
1000
10000
select.count

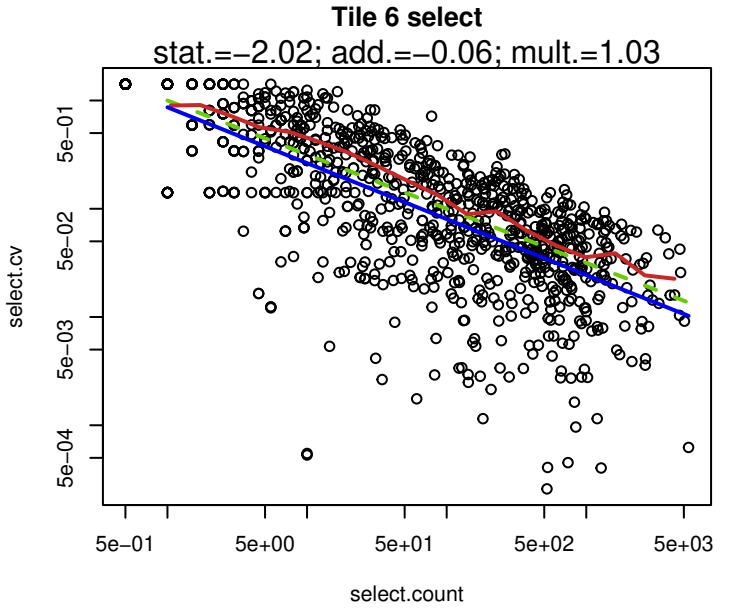

Tile 4 non−select
stat.=−2.11; add.=−0.14; mult.=1.06
nonselect.cv
5e−01
5e−02
5e−03
5e−04
5e−01
5e+00
5e+01
5e+02
nonselect.count


Tile 4 select
stat.=−1.79; add.=−0.11; mult.=1.04
select.cv
5e−01
5e−02
5e−03
5e−04
5e−01
5e+00
5e+01
5e+02
select.count


Tile 5 non−select
stat.=−1.95; add.=−0.10; mult.=1.00
nonselect.cv
1e−01
1e−03
1e−05
5e−01
5e+00
5e+01
5e+02
5e+03
nonselect.count

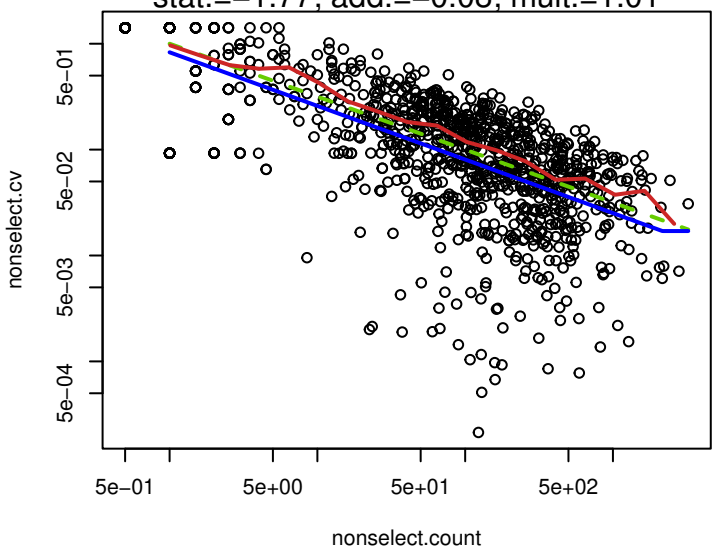

Tile 5 select
stat.=−1.69; add.=−0.06; mult.=1.04
select.cv
1e+00
1e−01
1e−02
1e−03
1e−04
1
10
100
1000
10000
select.count


Tile 6 non−select
stat.=−2.05; add.=−0.08; mult.=1.03
nonselect.cv
1e+00
1e−01
1e−02
1e−03
1e−04
5e−01
5e+00
5e+01
5e+02
nonselect.count


Tile 6 select
stat.=−2.02; add.=−0.06; mult.=1.03
select.cv
5e−01
5e−02
5e−03
5e−04
5e−01
5e+00
5e+01
5e+02
5e+03
select.count

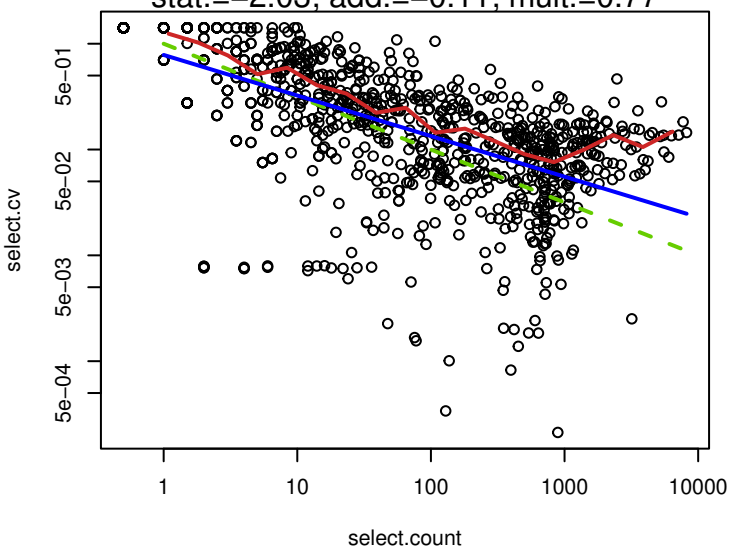
## Tile 7 non−select

stat.=−1.77; add.=−0.08; mult.=1.01



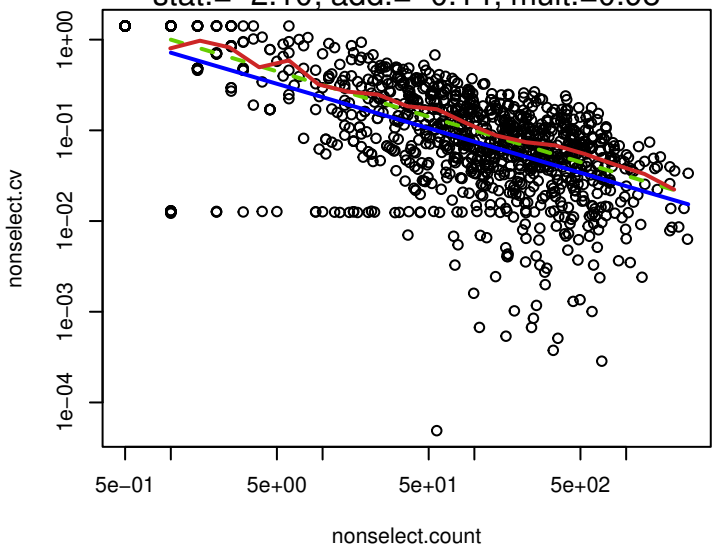

## Tile 7 select

stat.=−2.03; add.=−0.11; mult.=0.77



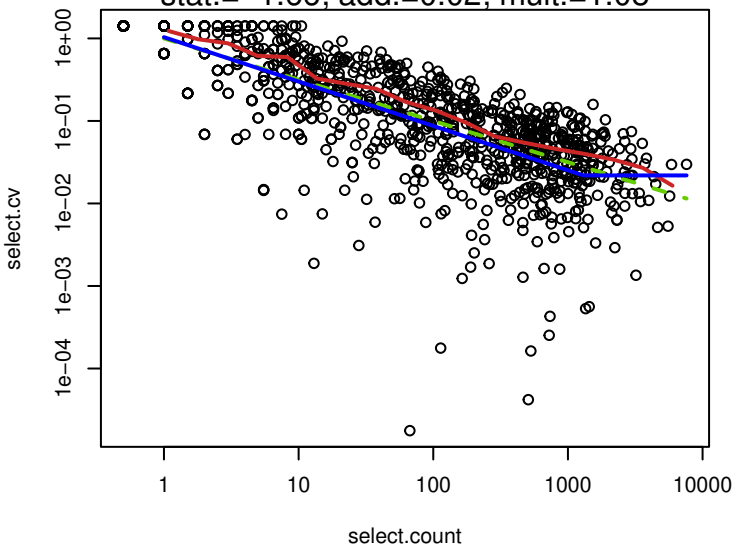

## Tile 8 non−select

stat.=−2.10; add.=−0.14; mult.=0.98



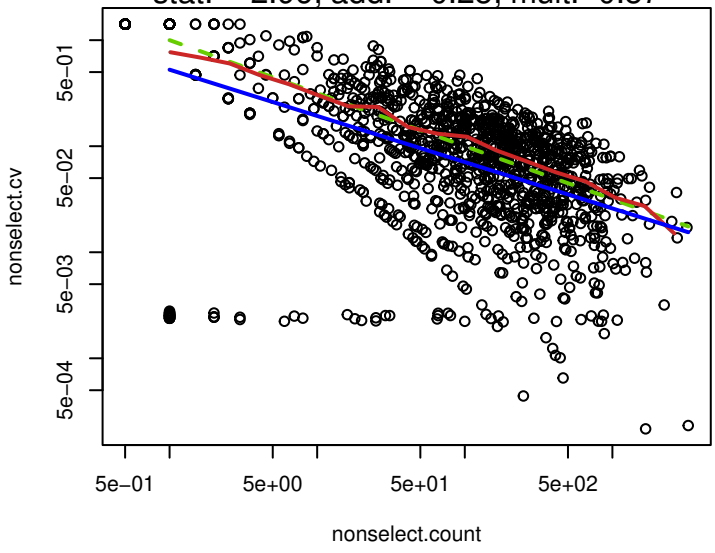

## Tile 8 select

stat.=−1.66; add.=0.02; mult.=1.08



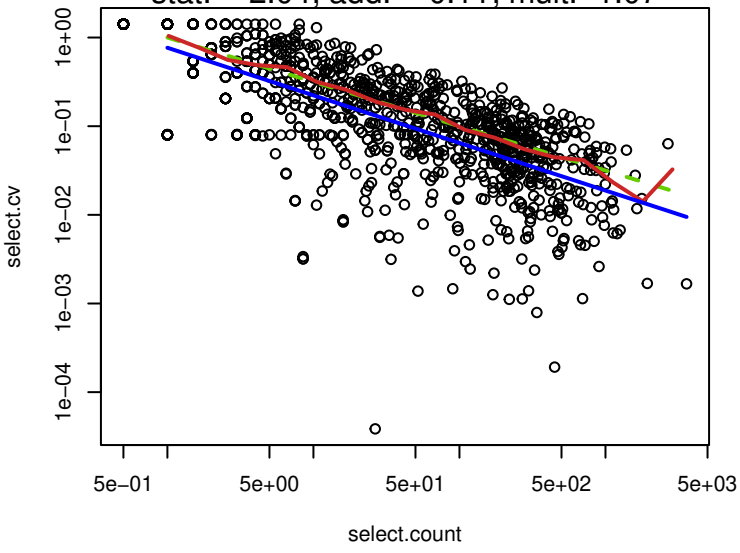

## Tile 9 non−select

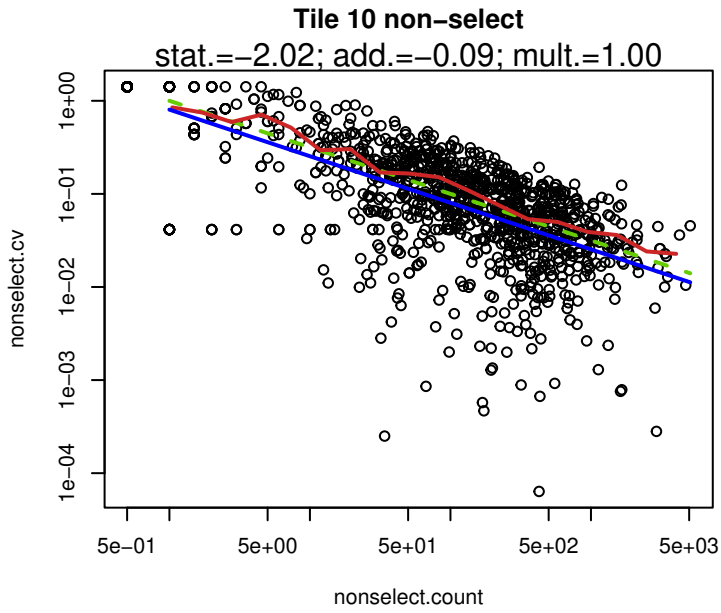
stat.=−2.96; add.=−0.28; mult.=0.87

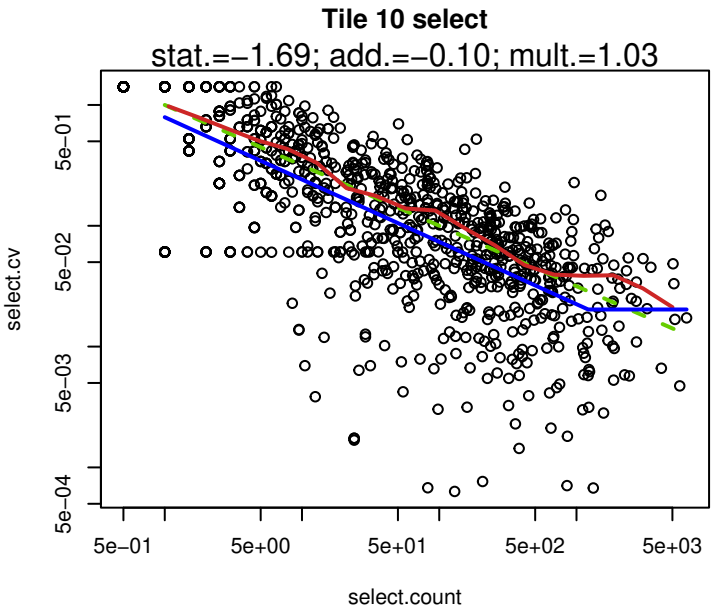


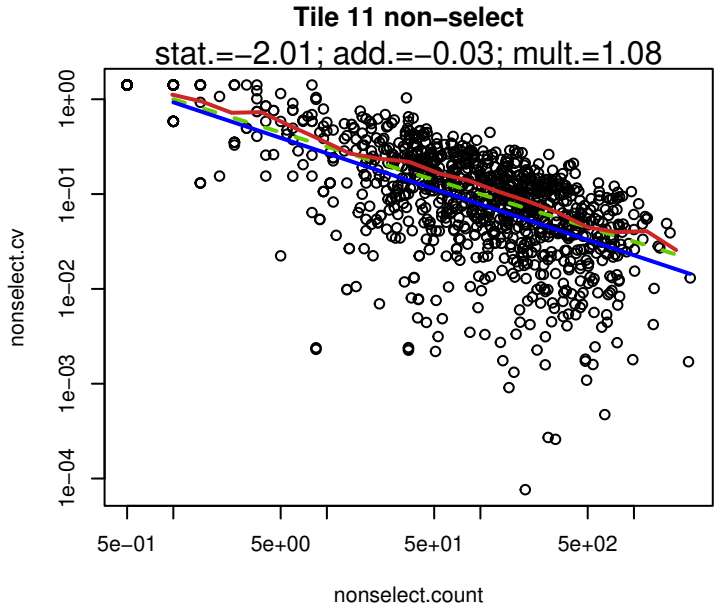

## Tile 9 select

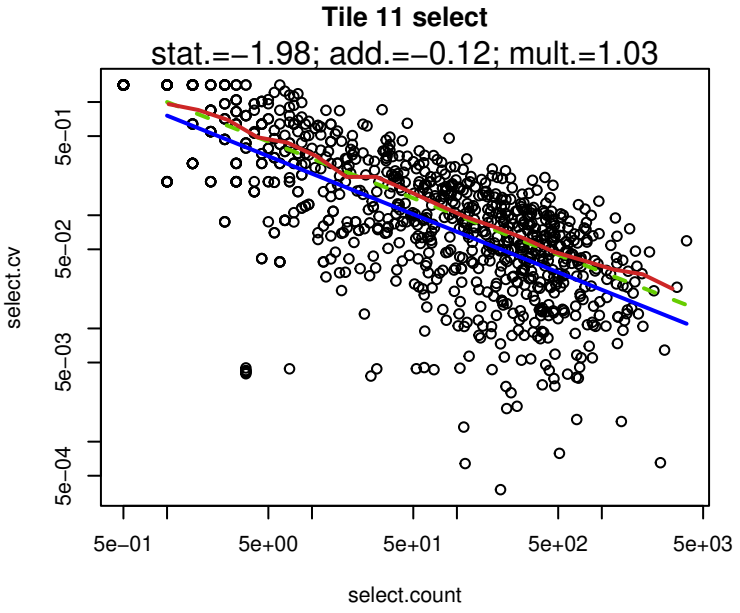
stat.=−2.04; add.=−0.11; mult.=1.07

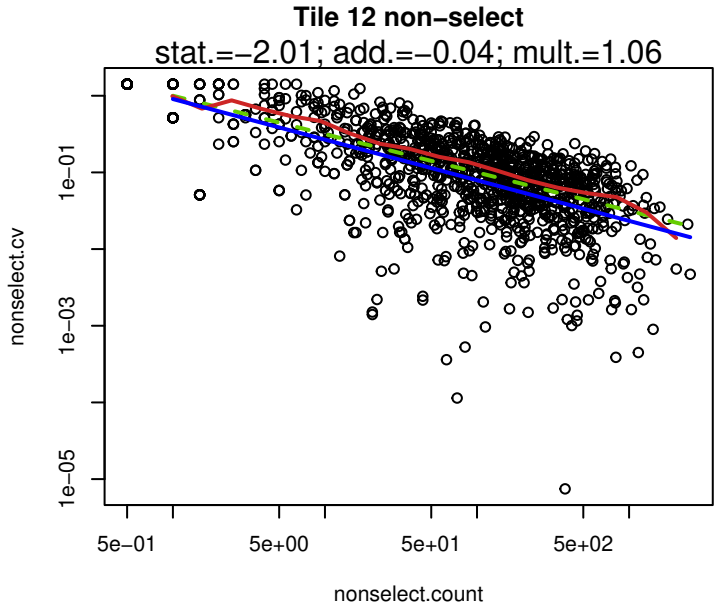


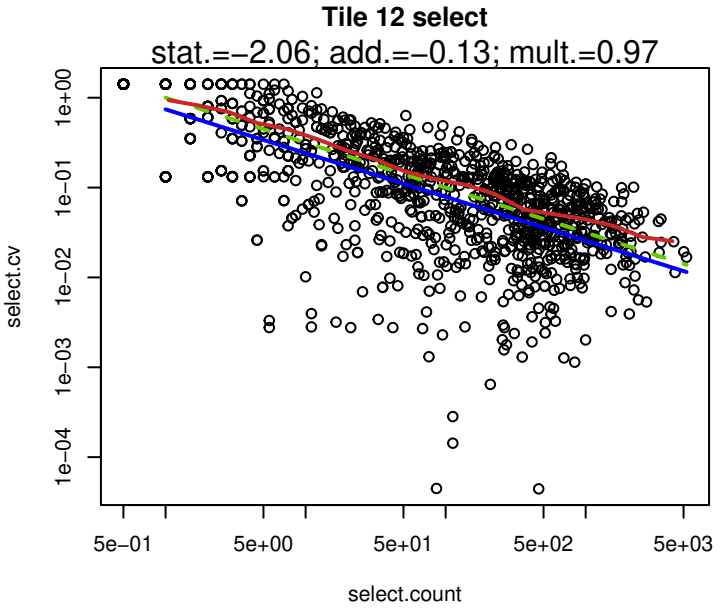

Tile 10 non−select
stat.=−2.02; add.=−0.09; mult.=1.00
nonselect.cv
nonselect.count
1e−04
1e−03
1e−02
1e−01
1e+00
5e−01
5e+00
5e+01
5e+02
5e+03

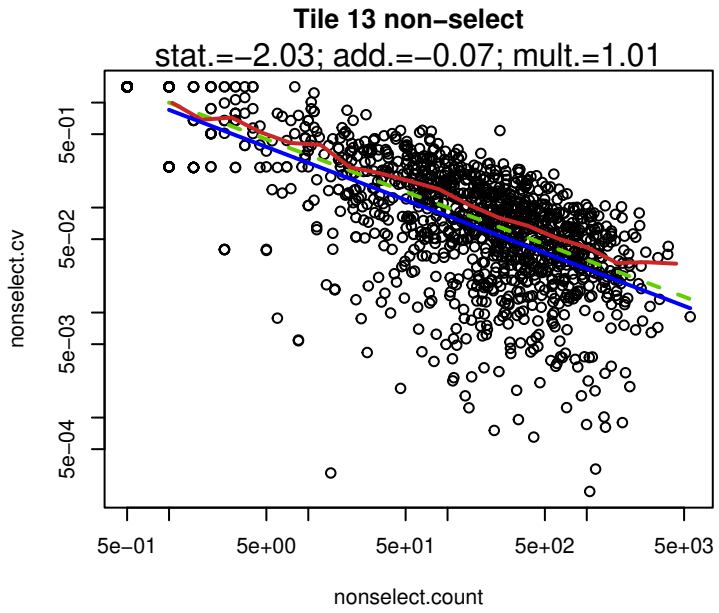

Tile 10 select
stat.=−1.69; add.=−0.10; mult.=1.03
select.cv
select.count
5e−04
5e−03
5e−02
5e−01
5e−01
5e+00
5e+01
5e+02
5e+03

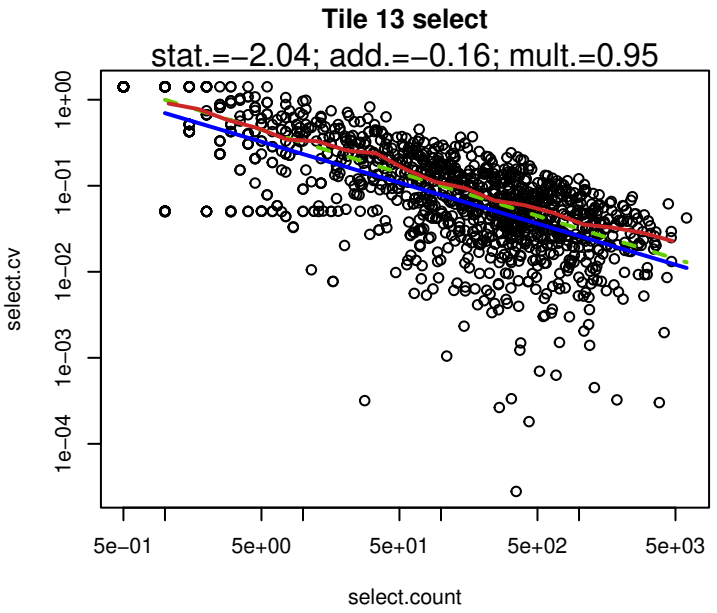

Tile 11 non−select
stat.=−2.01; add.=−0.03; mult.=1.08
nonselect.cv
nonselect.count
1e−04
1e−03
1e−02
1e−01
1e+00
5e−01
5e+00
5e+01
5e+02

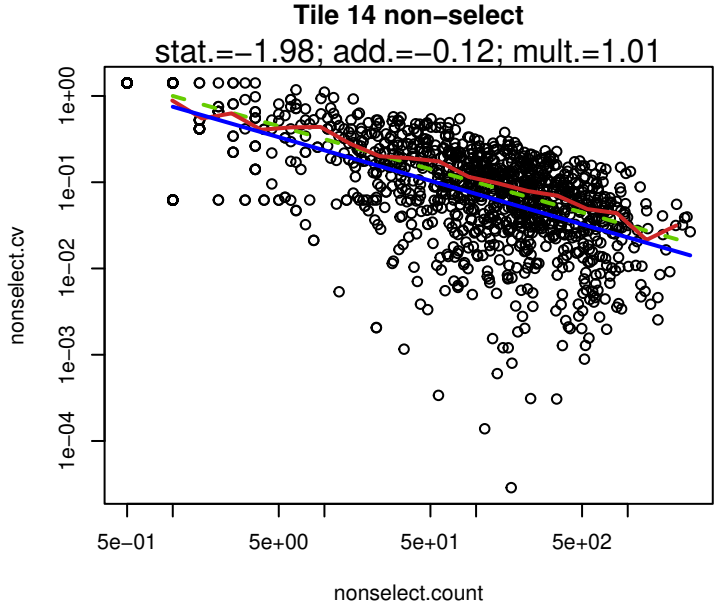

Tile 11 select
stat.=−1.98; add.=−0.12; mult.=1.03
select.cv
select.count
5e−04
5e−03
5e−02
5e−01
5e−01
5e+00
5e+01
5e+02
5e+03

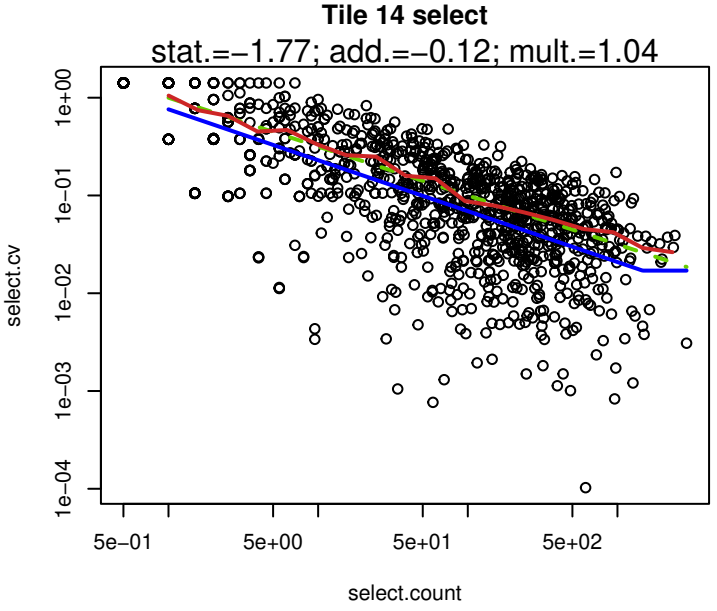

Tile 12 non−select
stat.=−2.01; add.=−0.04; mult.=1.06
nonselect.cv
nonselect.count
1e−05
1e−03
1e−01
5e−01
5e+00
5e+01
5e+02

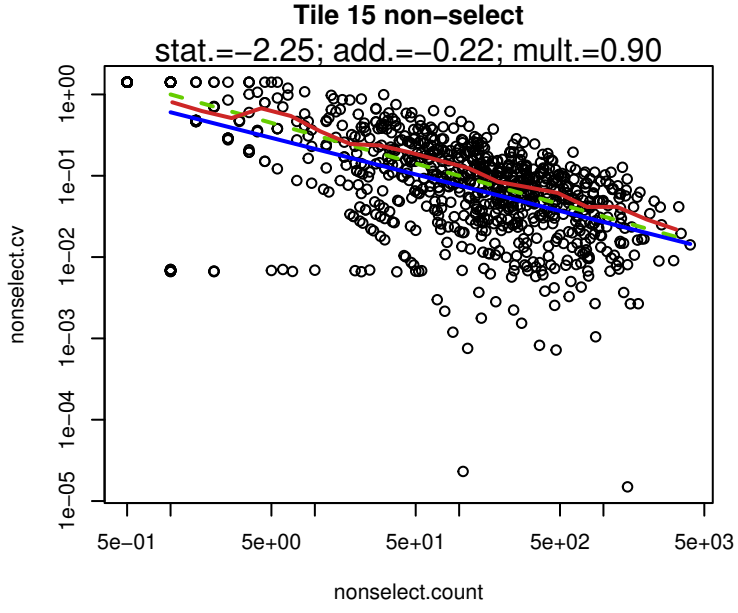

Tile 12 select
stat.=−2.06; add.=−0.13; mult.=0.97
select.cv
select.count
1e−04
1e−03
1e−02
1e−01
1e+00
5e−01
5e+00
5e+01
5e+02
5e+03

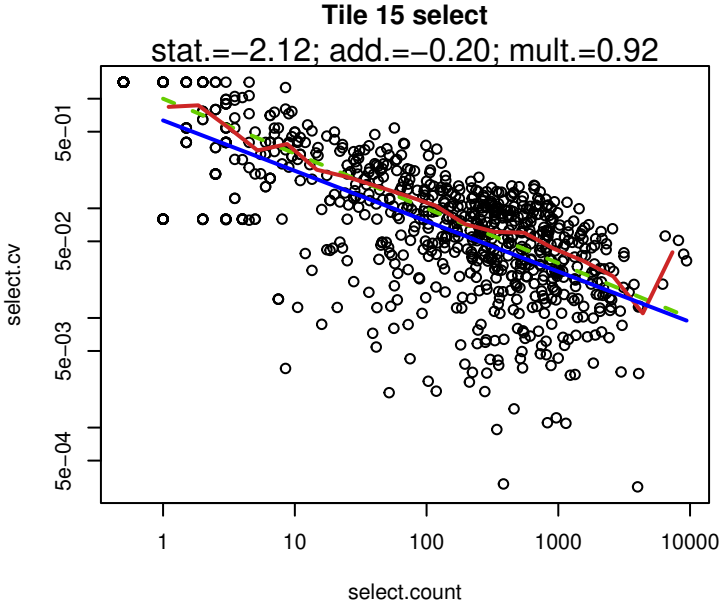

Tile 13 non−select
stat.=−2.03; add.=−0.07; mult.=1.01
nonselect.cv
nonselect.count
5e−01
5e−02
5e−03
5e−04
5e−01
5e+00
5e+01
5e+02
5e+03

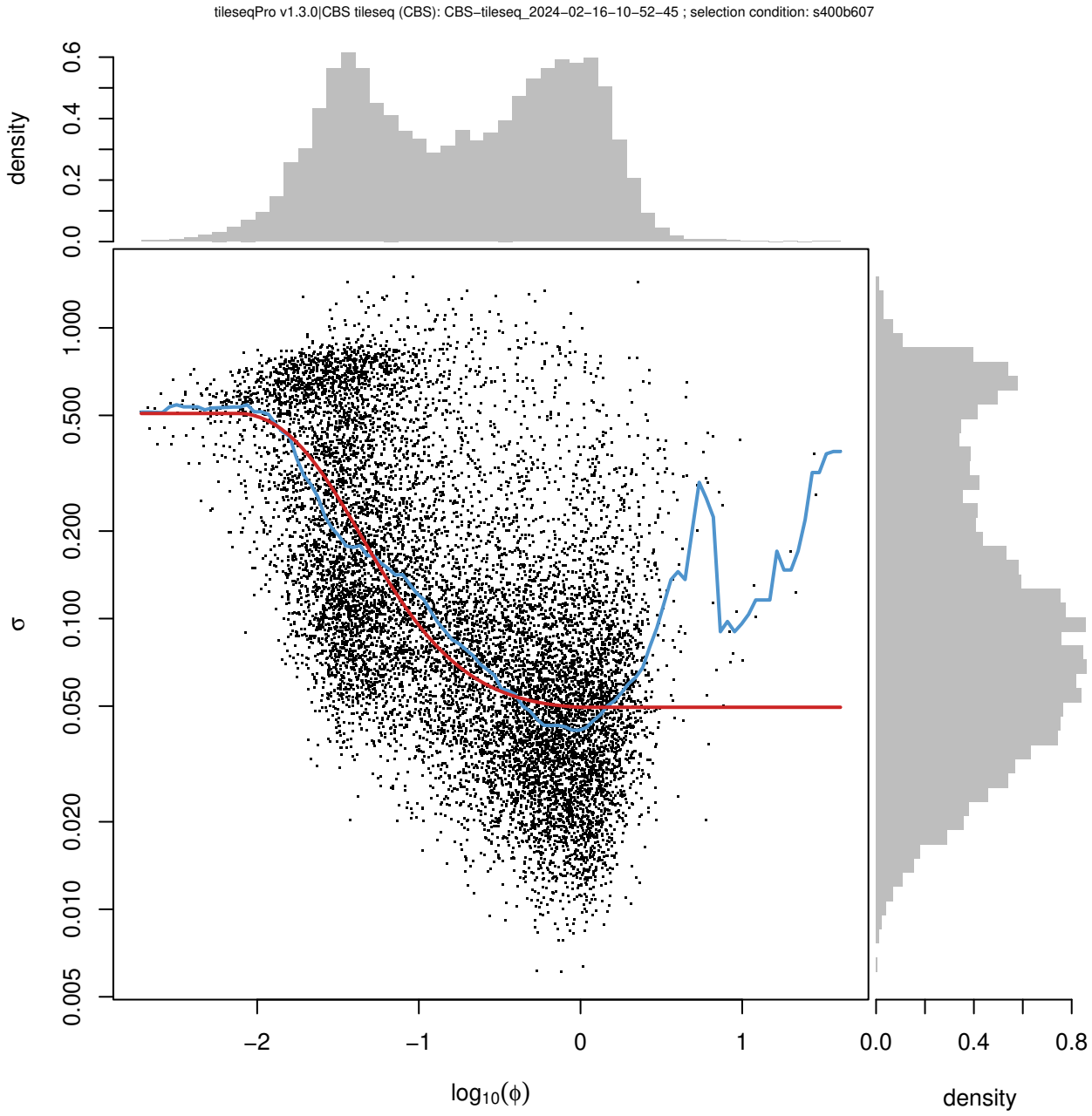

Tile 13 select
stat.=−2.04; add.=−0.16; mult.=0.95
select.cv
select.count
1e+00
1e−01
1e−02
1e−03
1e−04
5e−01
5e+00
5e+01
5e+02
5e+03


Tile 14 non−select
stat.=−1.98; add.=−0.12; mult.=1.01
nonselect.cv
nonselect.count
1e+00
1e−01
1e−02
1e−03
1e−04
5e−01
5e+00
5e+01
5e+02


Tile 14 select
stat.=−1.77; add.=−0.12; mult.=1.04
select.cv
select.count
1e+00
1e−01
1e−02
1e−03
1e−04
5e−01
5e+00
5e+01
5e+02


Tile 15 non−select
stat.=−2.25; add.=−0.22; mult.=0.90
nonselect.cv
nonselect.count
1e+00
1e−01
1e−02
1e−03
1e−04
1e−05
5e−01
5e+00
5e+01
5e+02
5e+03


Tile 15 select
stat.=−2.12; add.=−0.20; mult.=0.92
select.cv
select.count
5e−01
5e−02
5e−03
5e−04
1
10
100
1000
10000


tileseqPro v1.3.0|CBS tileseq (CBS): CBS−tileseq_2024−02−16−10−52−45 ; selection condition: s400b607
density
0.0
0.2
0.4
0.6
σ
0.005
0.010
0.020
0.050
0.100
0.200
0.500
1.000
−2
−1
0
1
log10(ϕ)
0.0
0.4
0.8
density