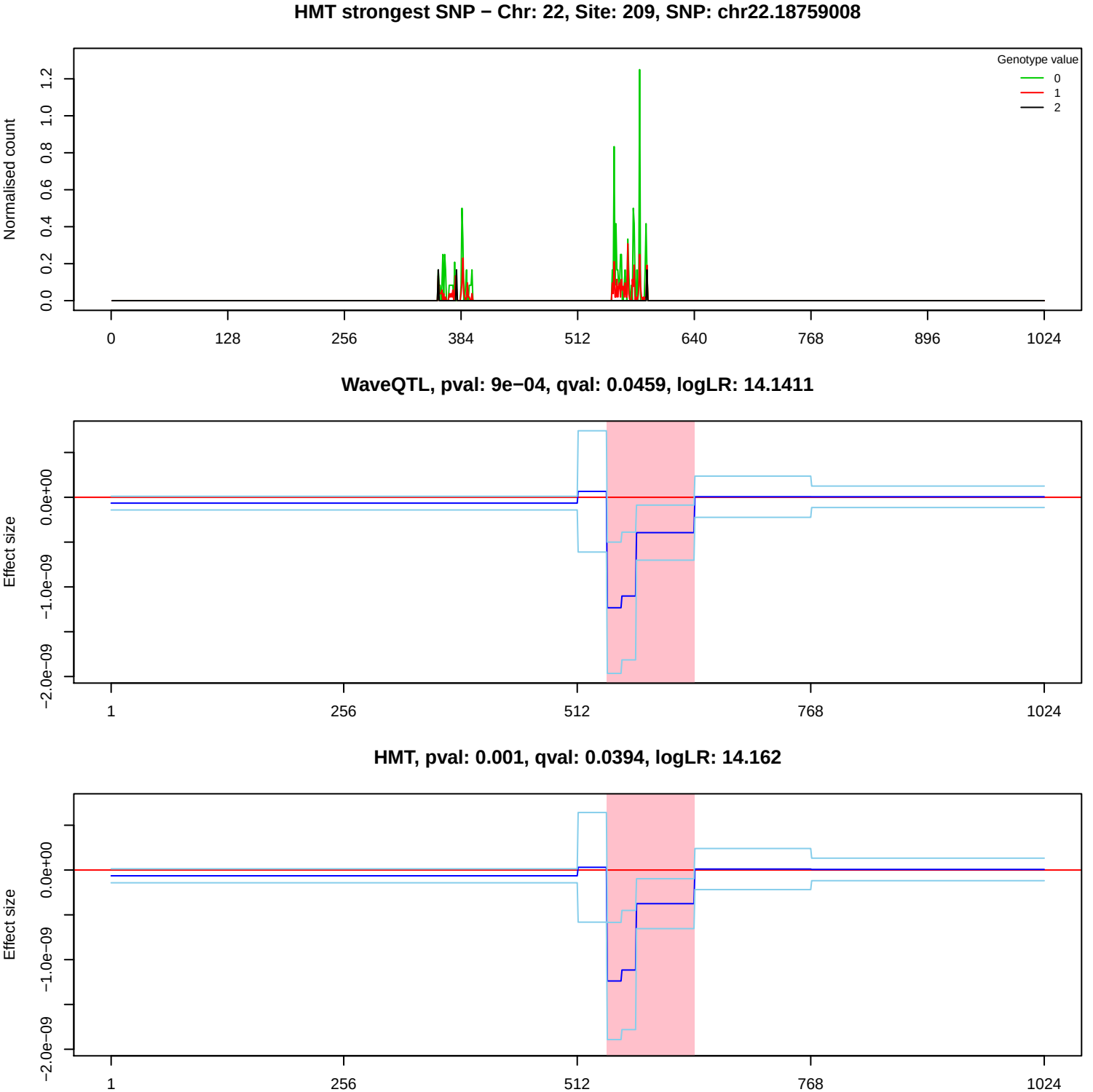
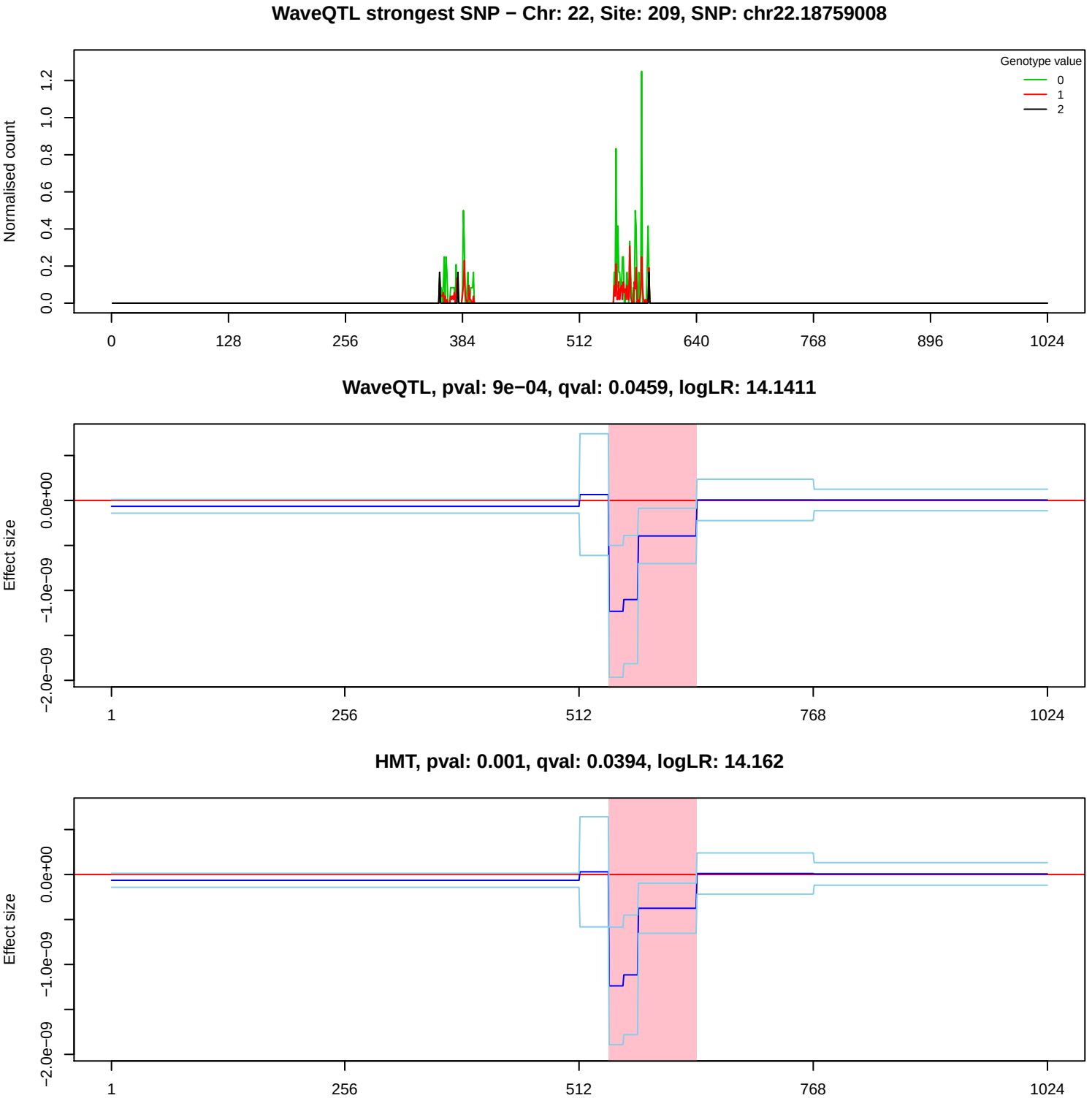
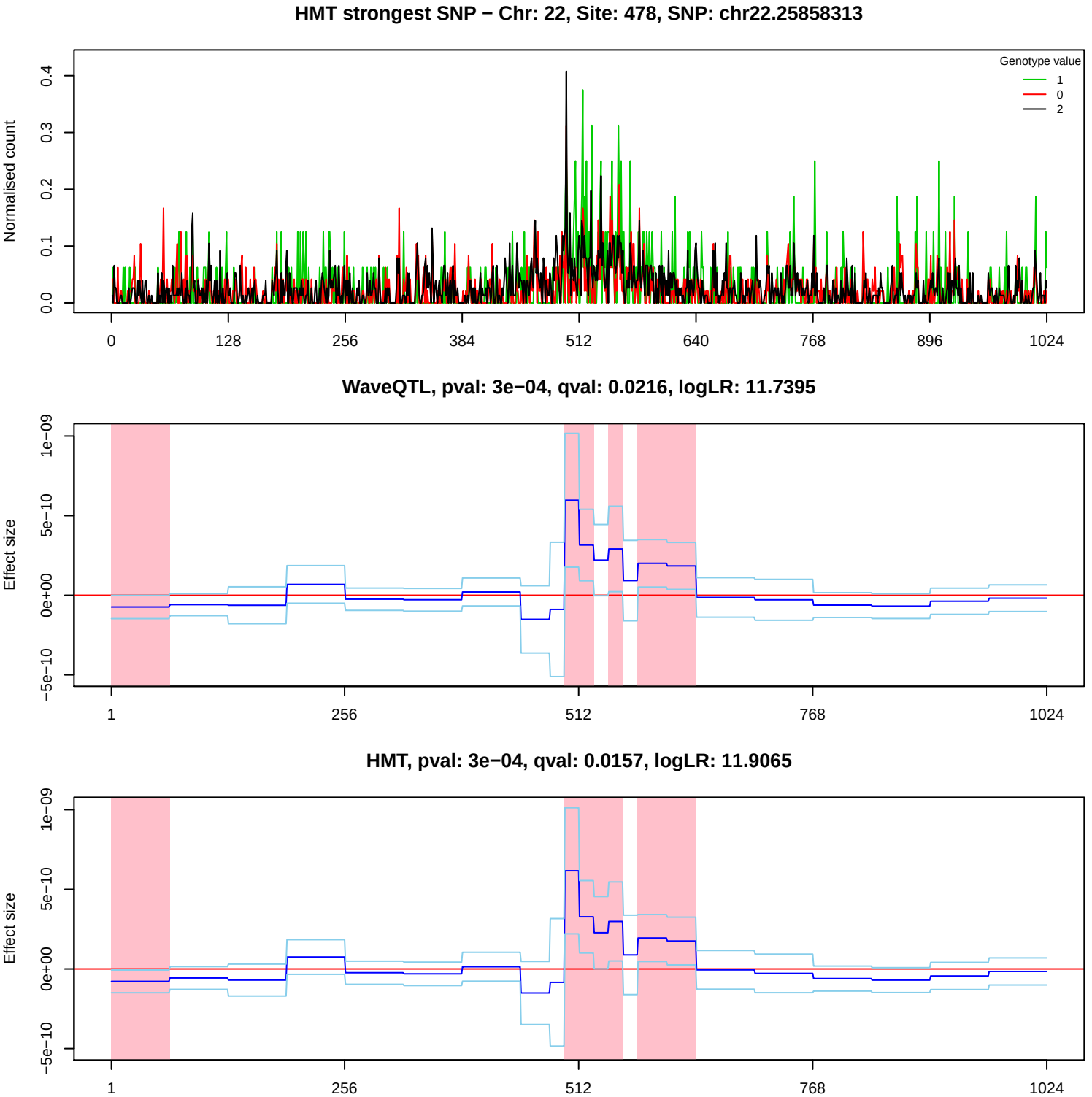
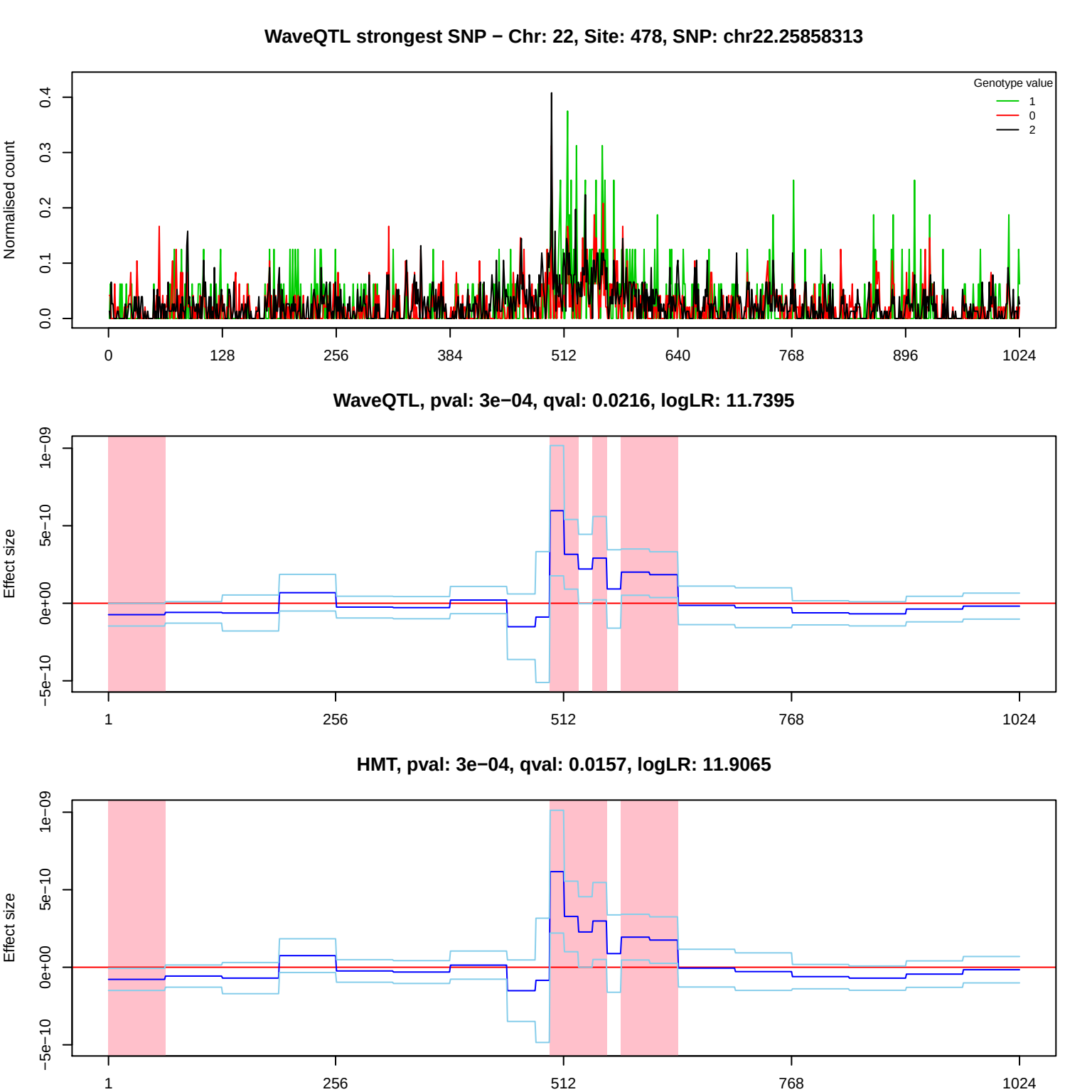
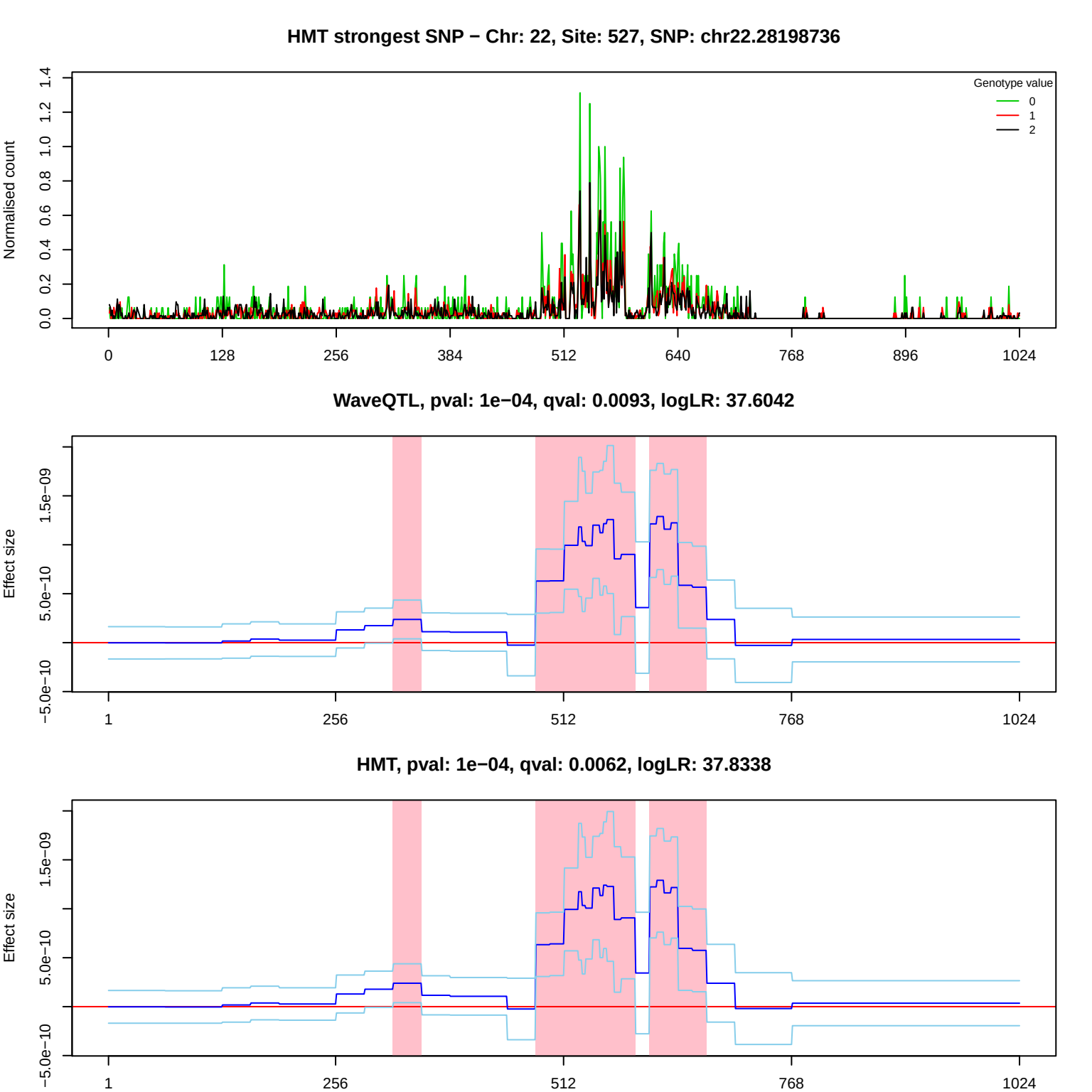
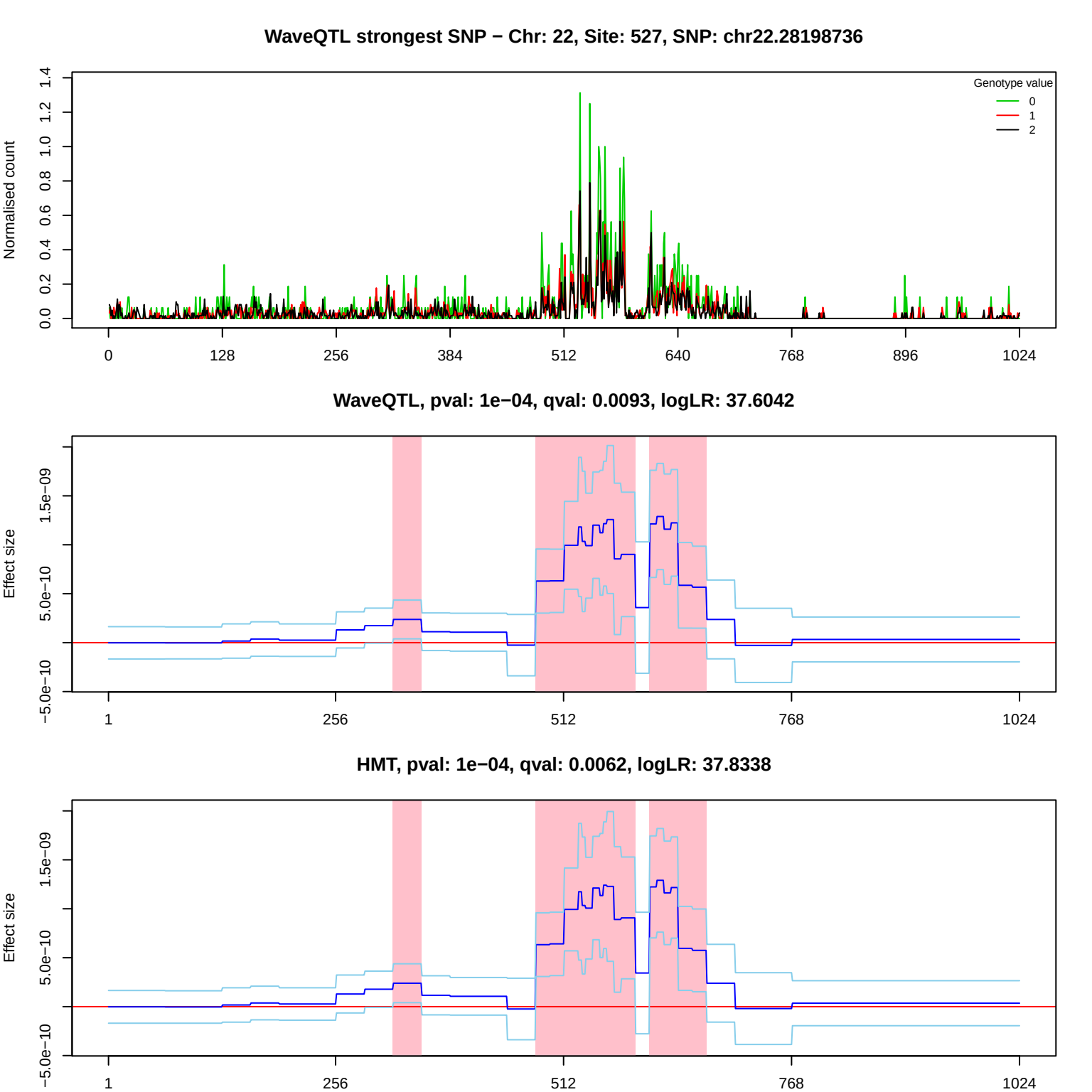

HMT strongest SNP − Chr: 22, Site: 209, SNP: chr22.18759008
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 9e−04, qval: 0.0459, logLR: 14.1411
Effect size
−2.0e−09
−1.0e−09
0.0e+00
1
256
512
768
1024
HMT, pval: 0.001, qval: 0.0394, logLR: 14.162
Effect size
−2.0e−09
−1.0e−09
0.0e+00
1
256
512
768
1024

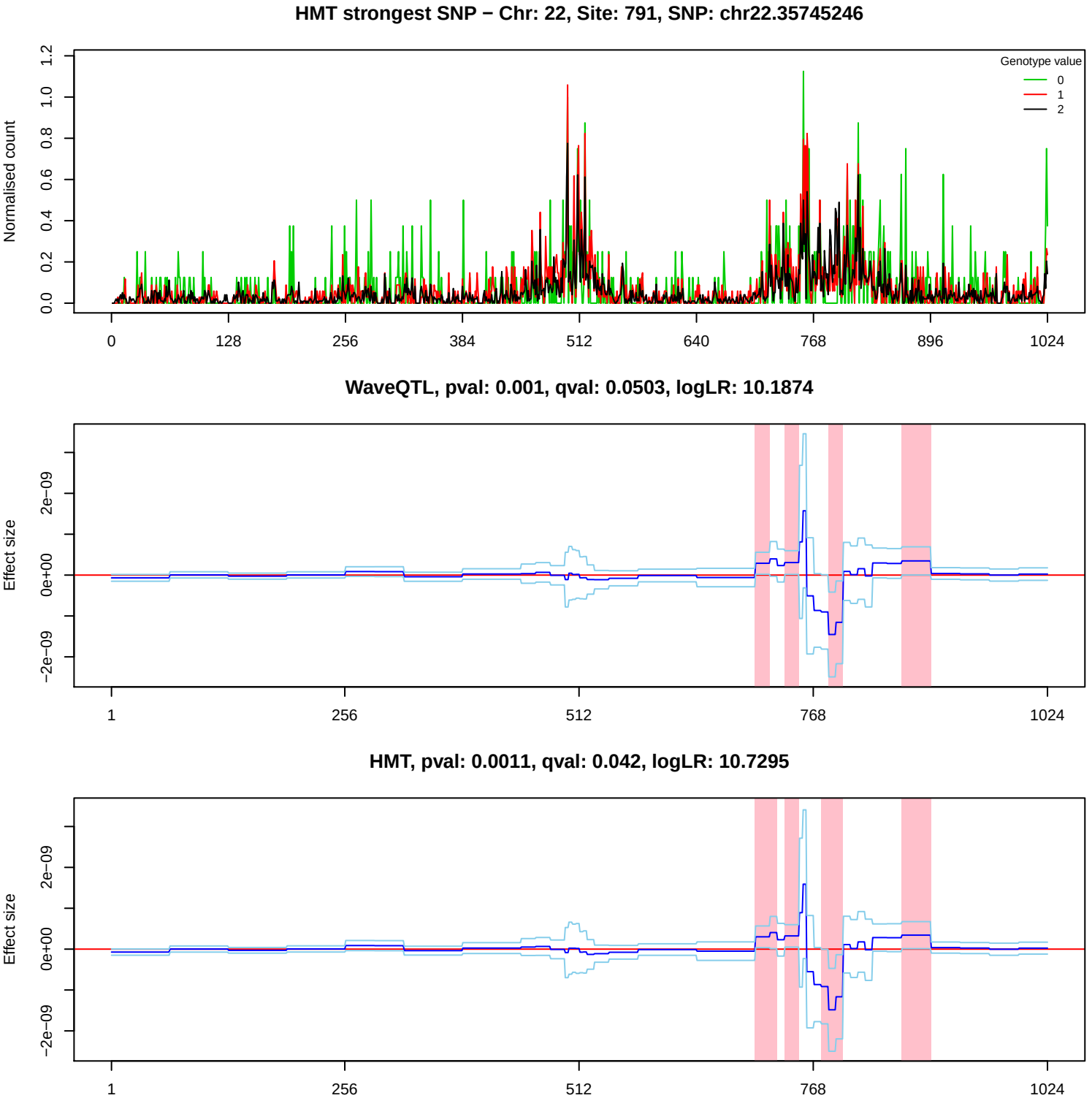

WaveQTL strongest SNP − Chr: 22, Site: 209, SNP: chr22.18759008
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 9e−04, qval: 0.0459, logLR: 14.1411
Effect size
−2.0e−09
−1.0e−09
0.0e+00
1
256
512
768
1024
HMT, pval: 0.001, qval: 0.0394, logLR: 14.162
Effect size
−2.0e−09
−1.0e−09
0.0e+00
1
256
512
768
1024

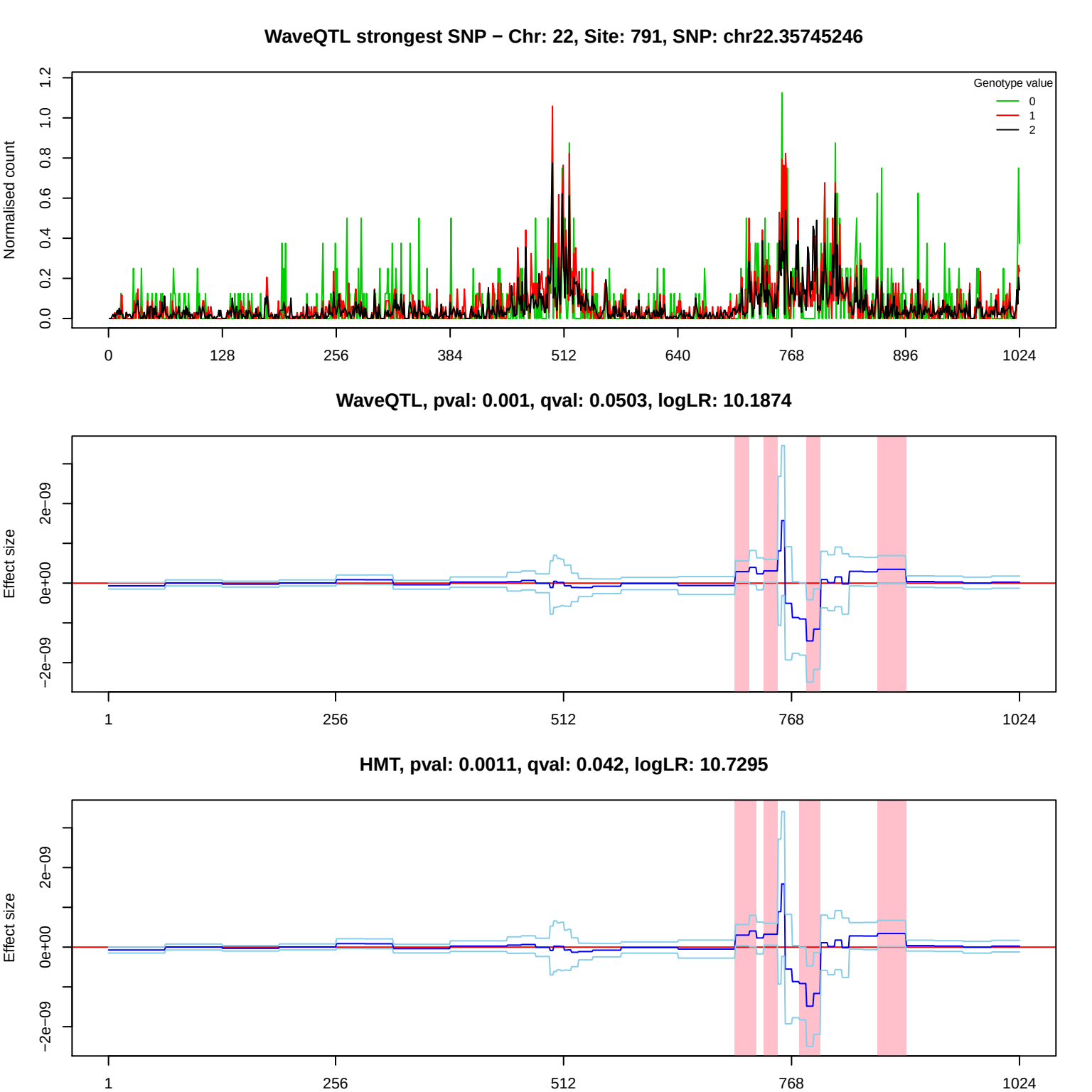

HMT strongest SNP − Chr: 22, Site: 478, SNP: chr22.25858313
Normalised count
0.0
0.1
0.2
0.3
0.4
Genotype value
1
0
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 3e−04, qval: 0.0216, logLR: 11.7395
Effect size
−5e−10
0e+00
5e−10
1e−09
1
256
512
768
1024
HMT, pval: 3e−04, qval: 0.0157, logLR: 11.9065
Effect size
−5e−10
0e+00
5e−10
1e−09
1
256
512
768
1024

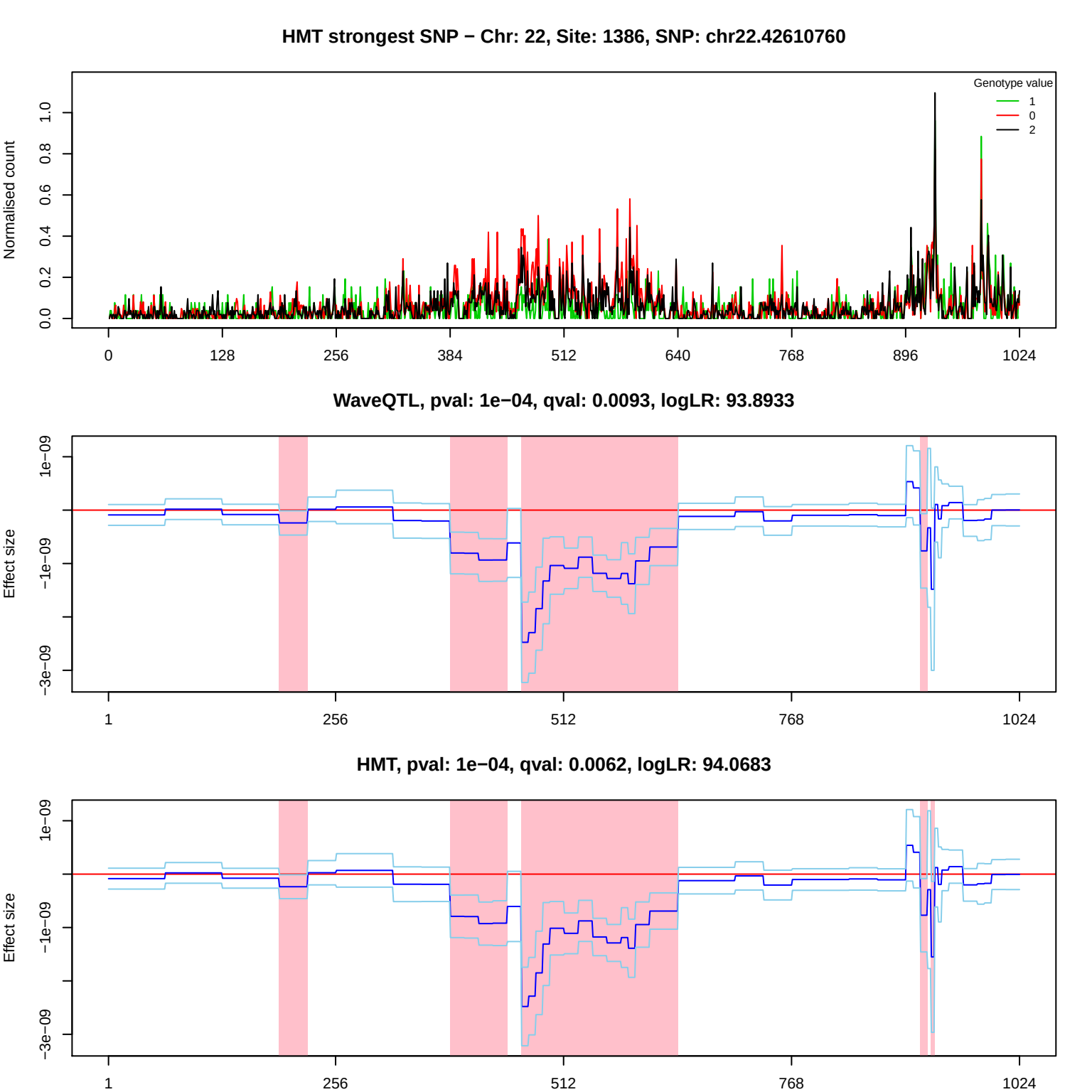

WaveQTL strongest SNP − Chr: 22, Site: 478, SNP: chr22.25858313
Normalised count
Genotype value
1
0
2
WaveQTL, pval: 3e−04, qval: 0.0216, logLR: 11.7395
Effect size
HMT, pval: 3e−04, qval: 0.0157, logLR: 11.9065
Effect size

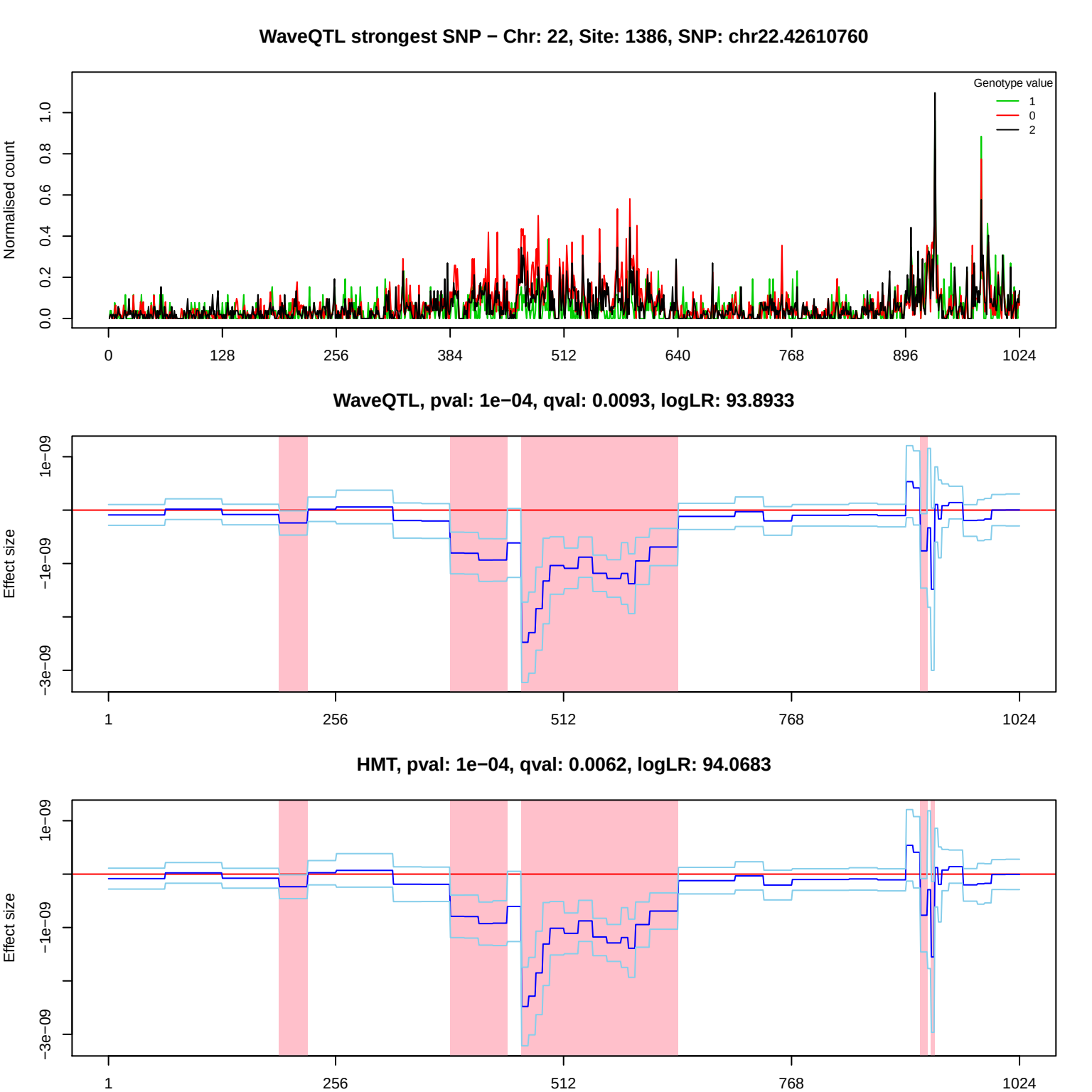

HMT strongest SNP − Chr: 22, Site: 527, SNP: chr22.28198736
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 37.6042
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 37.8338
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024

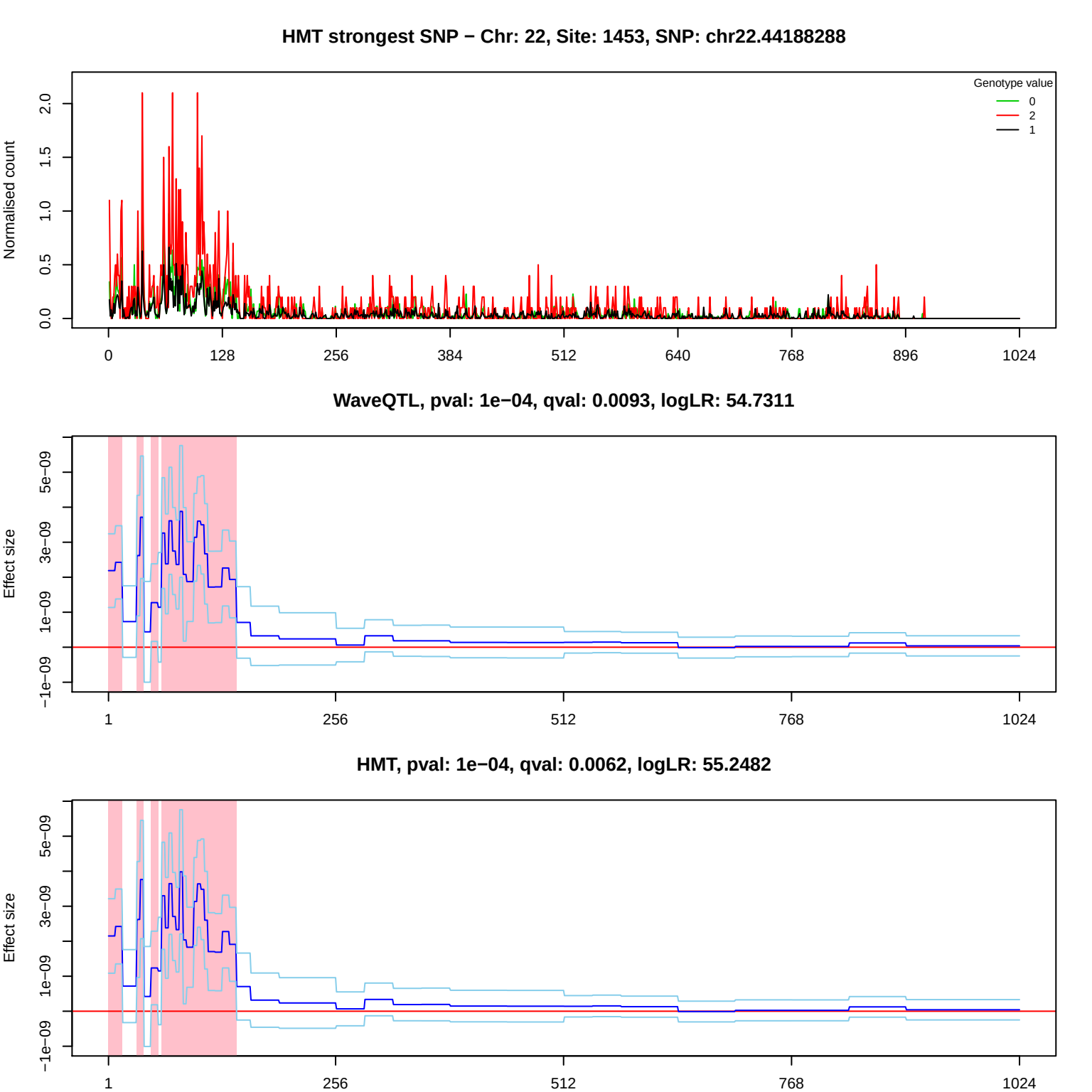

WaveQTL strongest SNP − Chr: 22, Site: 527, SNP: chr22.28198736
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 37.6042
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 37.8338
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024

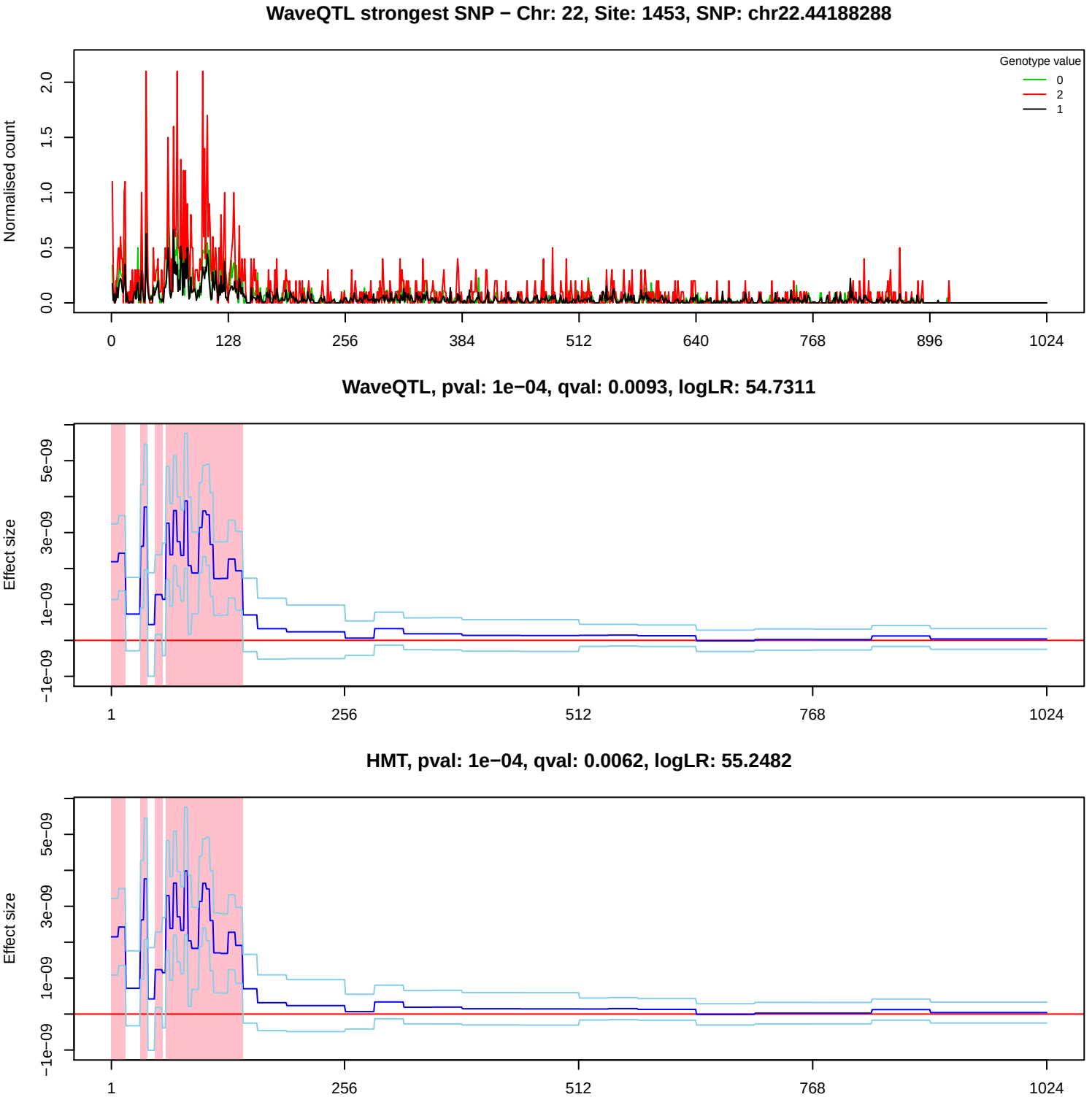

HMT strongest SNP − Chr: 22, Site: 791, SNP: chr22.35745246
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.001, qval: 0.0503, logLR: 10.1874
Effect size
−2e−09
0e+00
2e−09
1
256
512
768
1024
HMT, pval: 0.0011, qval: 0.042, logLR: 10.7295
Effect size
−2e−09
0e+00
2e−09
1
256
512
768
1024

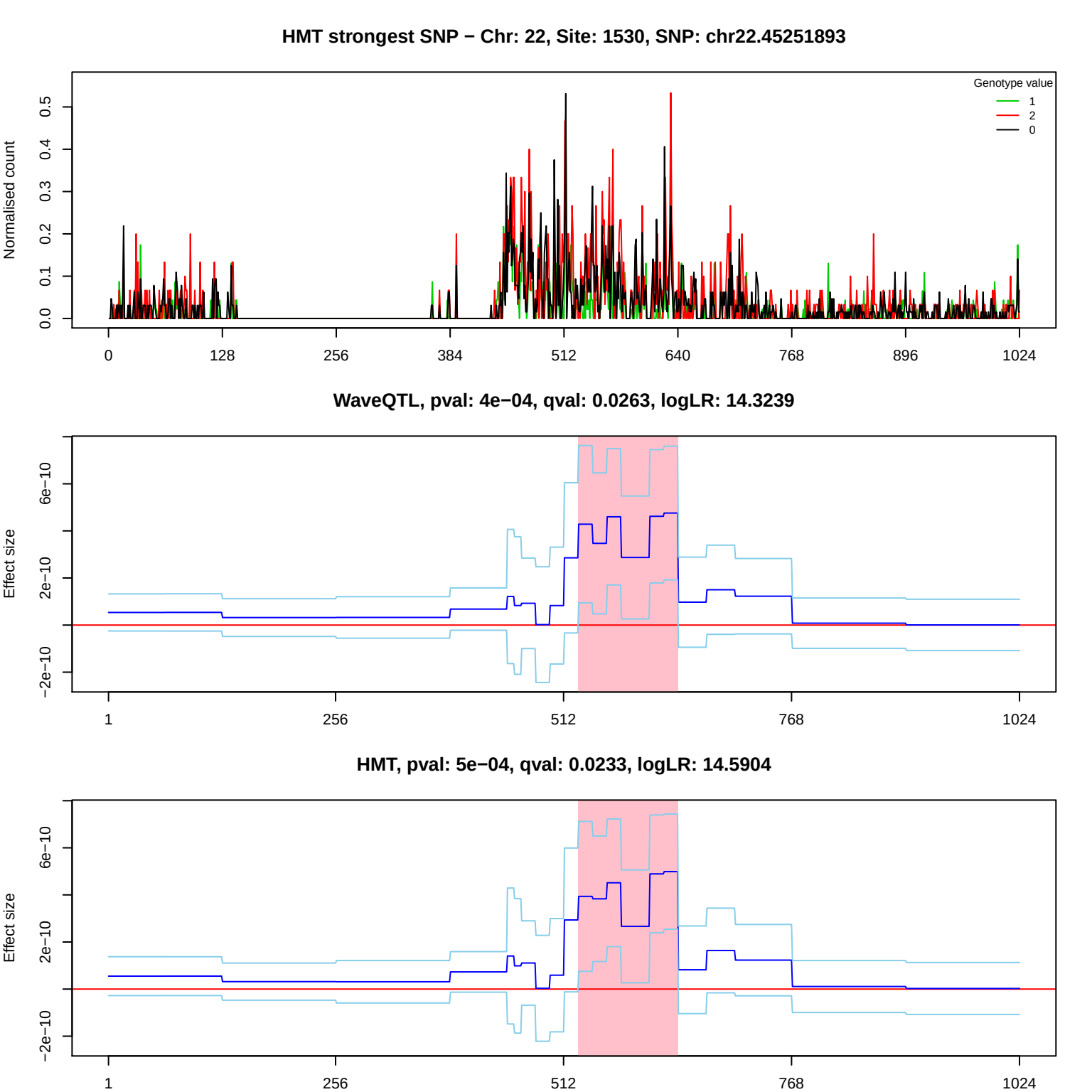

WaveQTL strongest SNP − Chr: 22, Site: 791, SNP: chr22.35745246
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.001, qval: 0.0503, logLR: 10.1874
Effect size
−2e−09
0e+00
2e−09
1
256
512
768
1024
HMT, pval: 0.0011, qval: 0.042, logLR: 10.7295
Effect size
−2e−09
0e+00
2e−09
1
256
512
768
1024

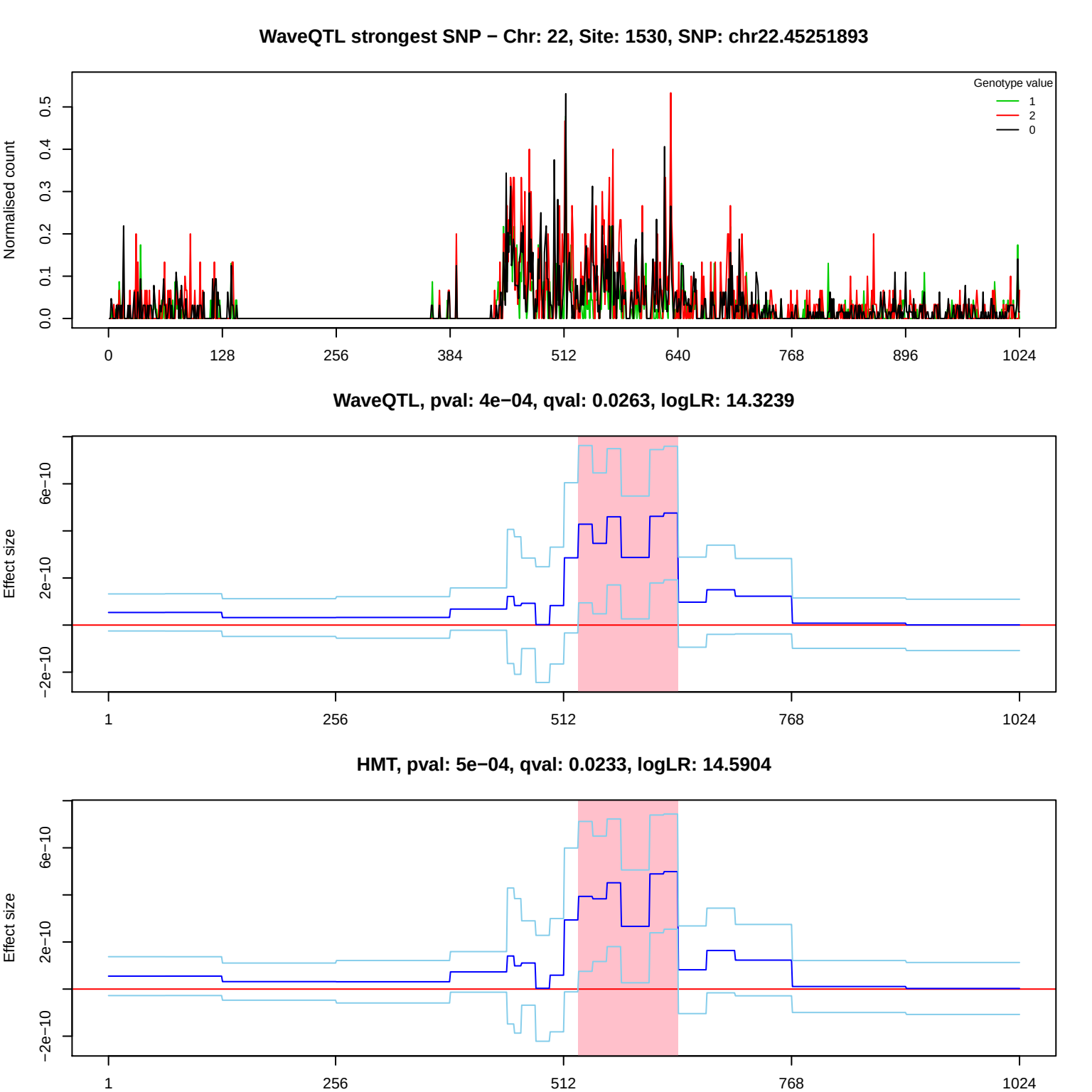

HMT strongest SNP − Chr: 22, Site: 1386, SNP: chr22.42610760
Genotype value
1
0
2
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 93.8933
Effect size
1e−09
−1e−09
−3e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 94.0683
Effect size
1e−09
−1e−09
−3e−09
1
256
512
768
1024

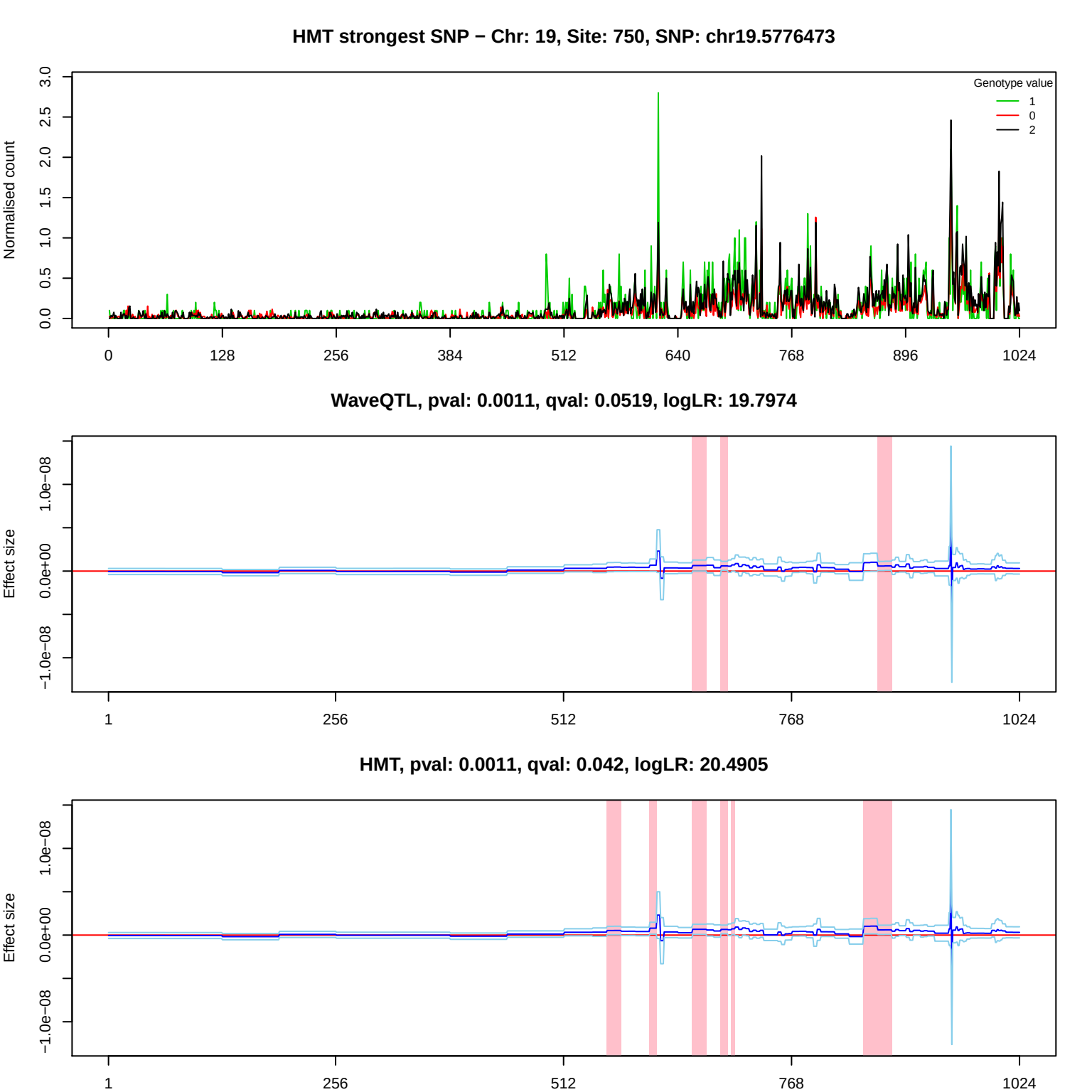

WaveQTL strongest SNP − Chr: 22, Site: 1386, SNP: chr22.42610760
Genotype value
1
0
2
Normalised count
0.0
0.2
0.4
0.6
0.8
1.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 93.8933
Effect size
1e−09
−1e−09
−3e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 94.0683
Effect size
1e−09
−1e−09
−3e−09
1
256
512
768
1024

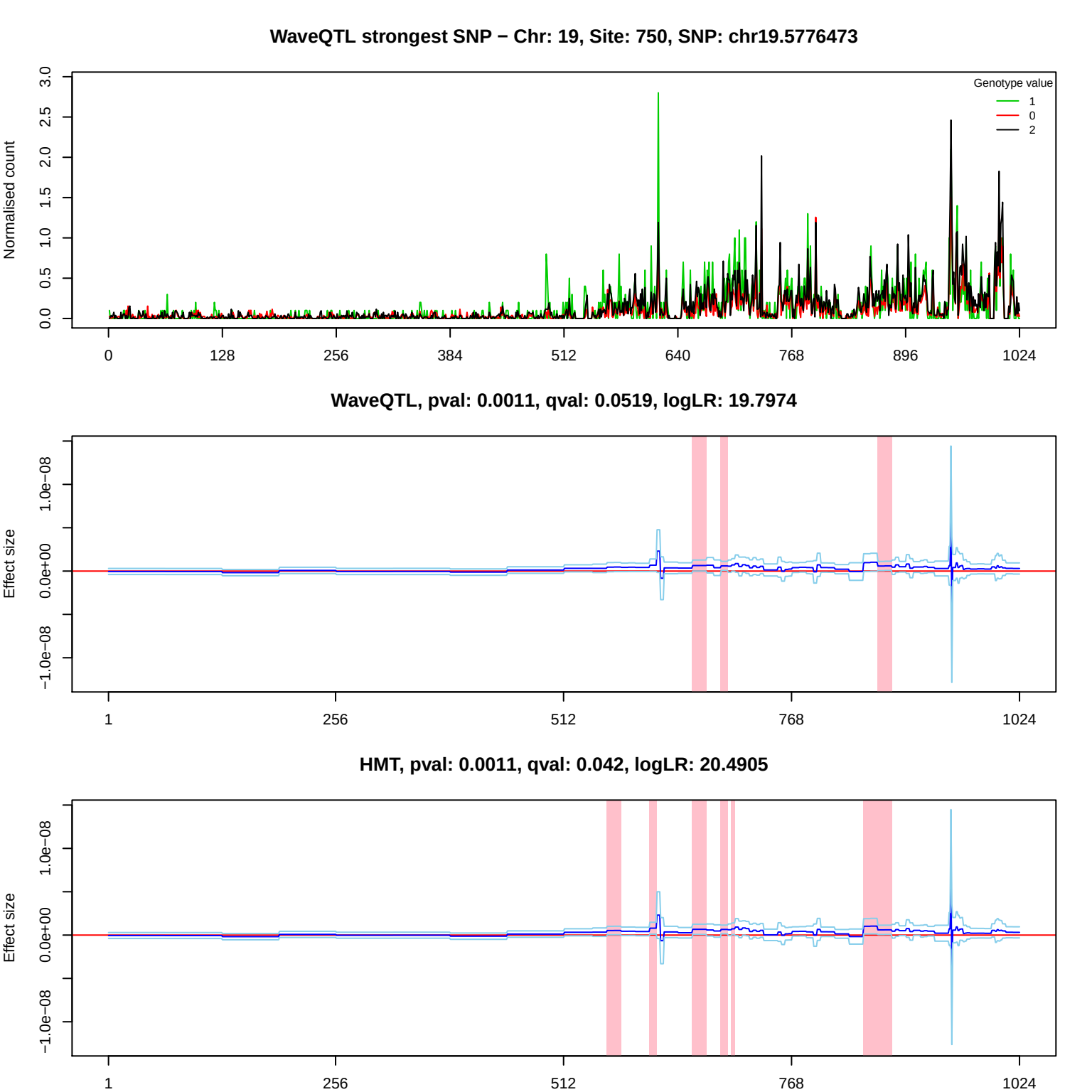

HMT strongest SNP − Chr: 22, Site: 1453, SNP: chr22.44188288
Genotype value
0
2
1
Normalised count
0.0
0.5
1.0
1.5
2.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 54.7311
Effect size
−1e−09
1e−09
3e−09
5e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 55.2482
Effect size
−1e−09
1e−09
3e−09
5e−09
1
256
512
768
1024

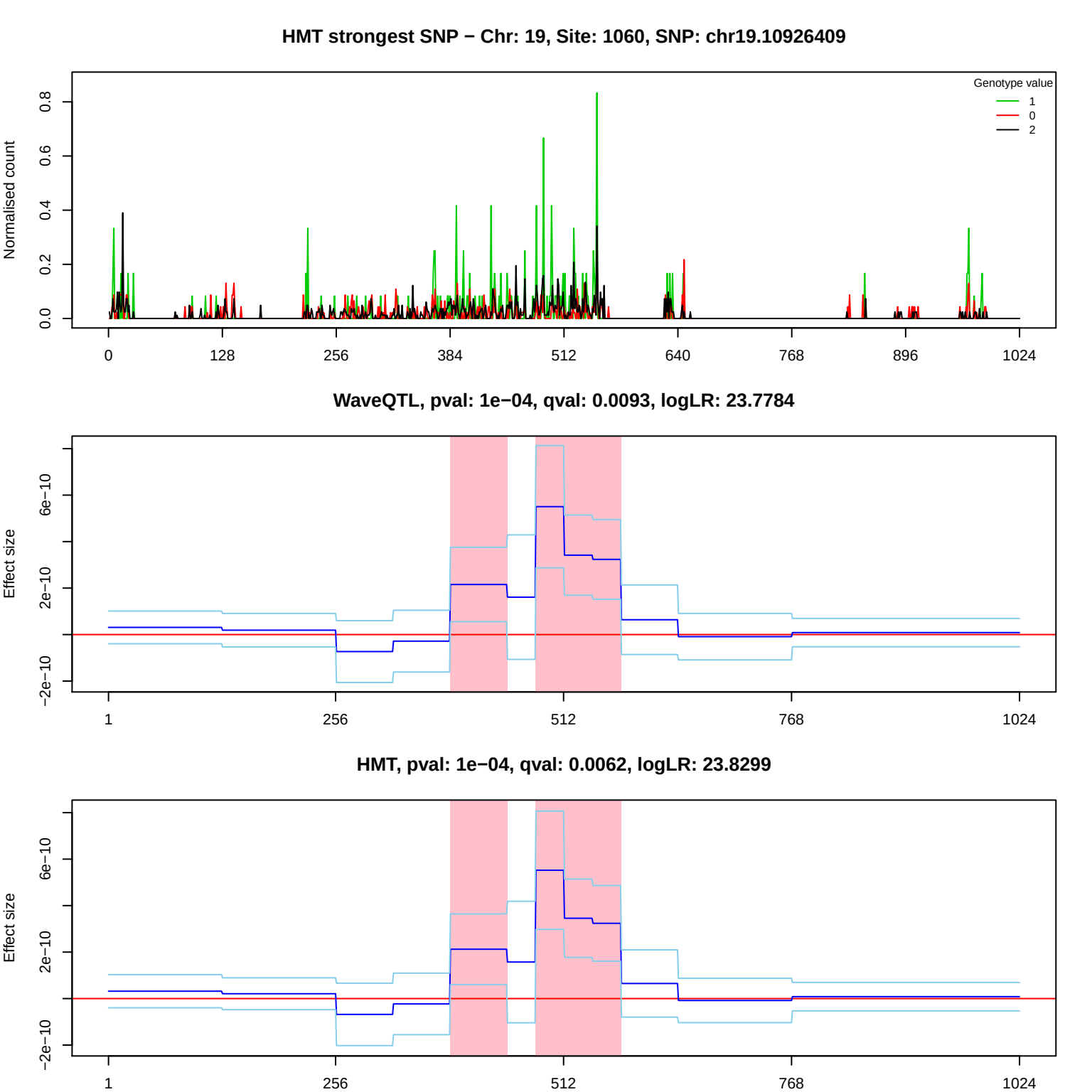

WaveQTL strongest SNP − Chr: 22, Site: 1453, SNP: chr22.44188288
Genotype value
0
2
1
Normalised count
0.0
0.5
1.0
1.5
2.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 54.7311
Effect size
−1e−09
1e−09
3e−09
5e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 55.2482
Effect size
−1e−09
1e−09
3e−09
5e−09
1
256
512
768
1024

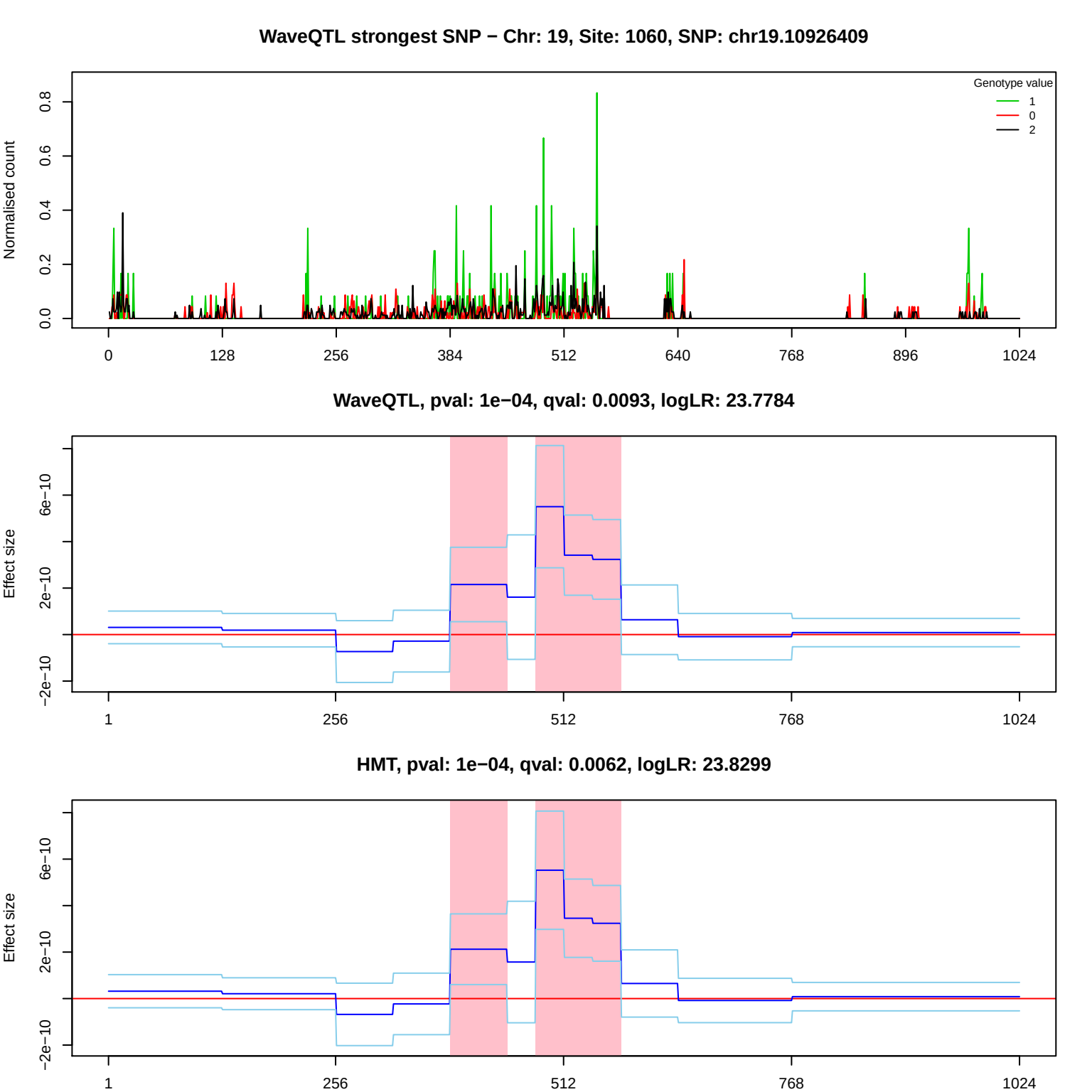

HMT strongest SNP − Chr: 22, Site: 1530, SNP: chr22.45251893
Genotype value
1
2
0
Normalised count
0.0
0.1
0.2
0.3
0.4
0.5
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 4e−04, qval: 0.0263, logLR: 14.3239
Effect size
6e−10
2e−10
−2e−10
1
256
512
768
1024
HMT, pval: 5e−04, qval: 0.0233, logLR: 14.5904
Effect size
6e−10
2e−10
−2e−10
1
256
512
768
1024

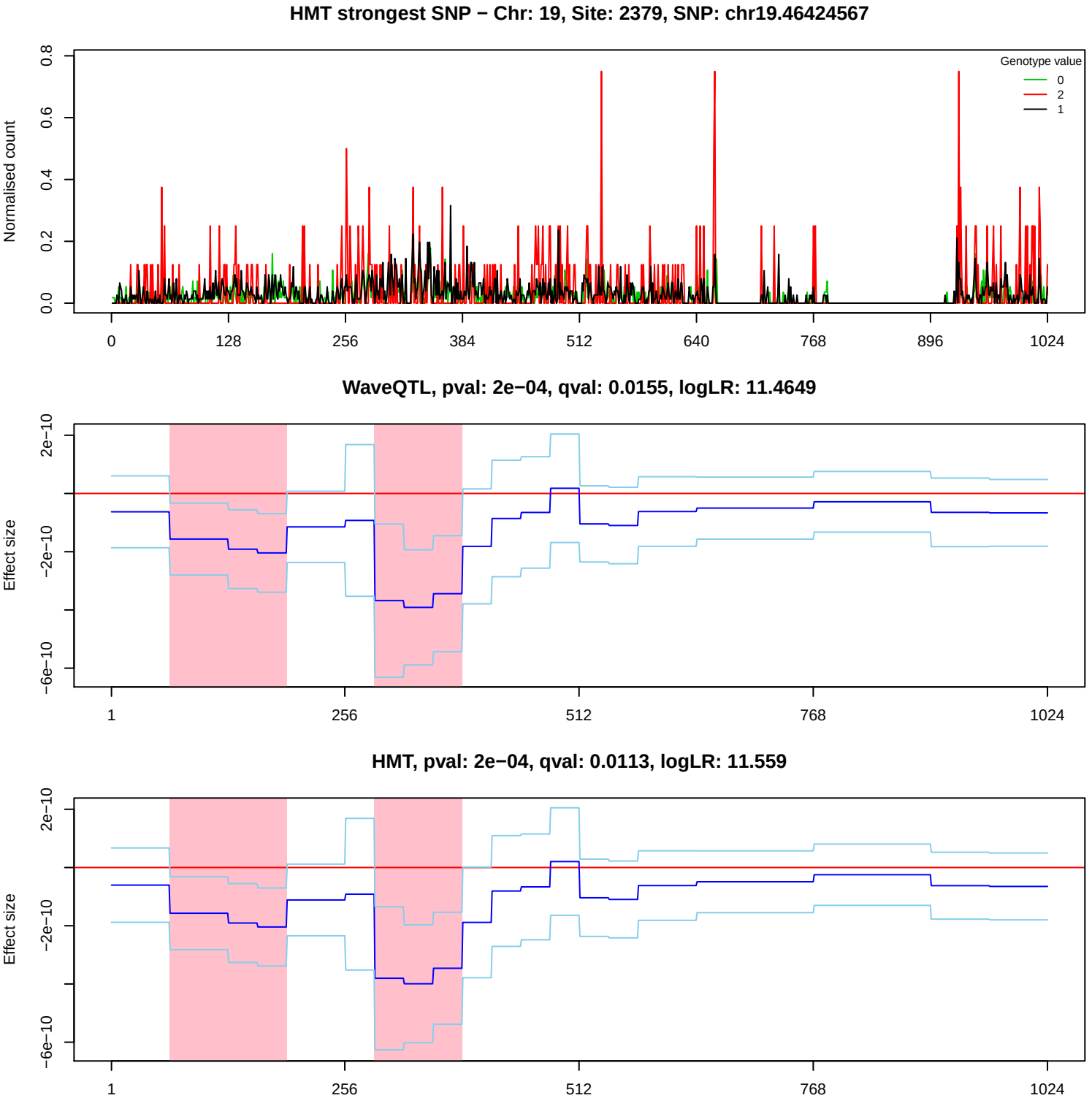

WaveQTL strongest SNP − Chr: 22, Site: 1530, SNP: chr22.45251893
Genotype value
1
2
0
Normalised count
0.0
0.1
0.2
0.3
0.4
0.5
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 4e−04, qval: 0.0263, logLR: 14.3239
Effect size
6e−10
2e−10
−2e−10
1
256
512
768
1024
HMT, pval: 5e−04, qval: 0.0233, logLR: 14.5904
Effect size
6e−10
2e−10
−2e−10
1
256
512
768
1024

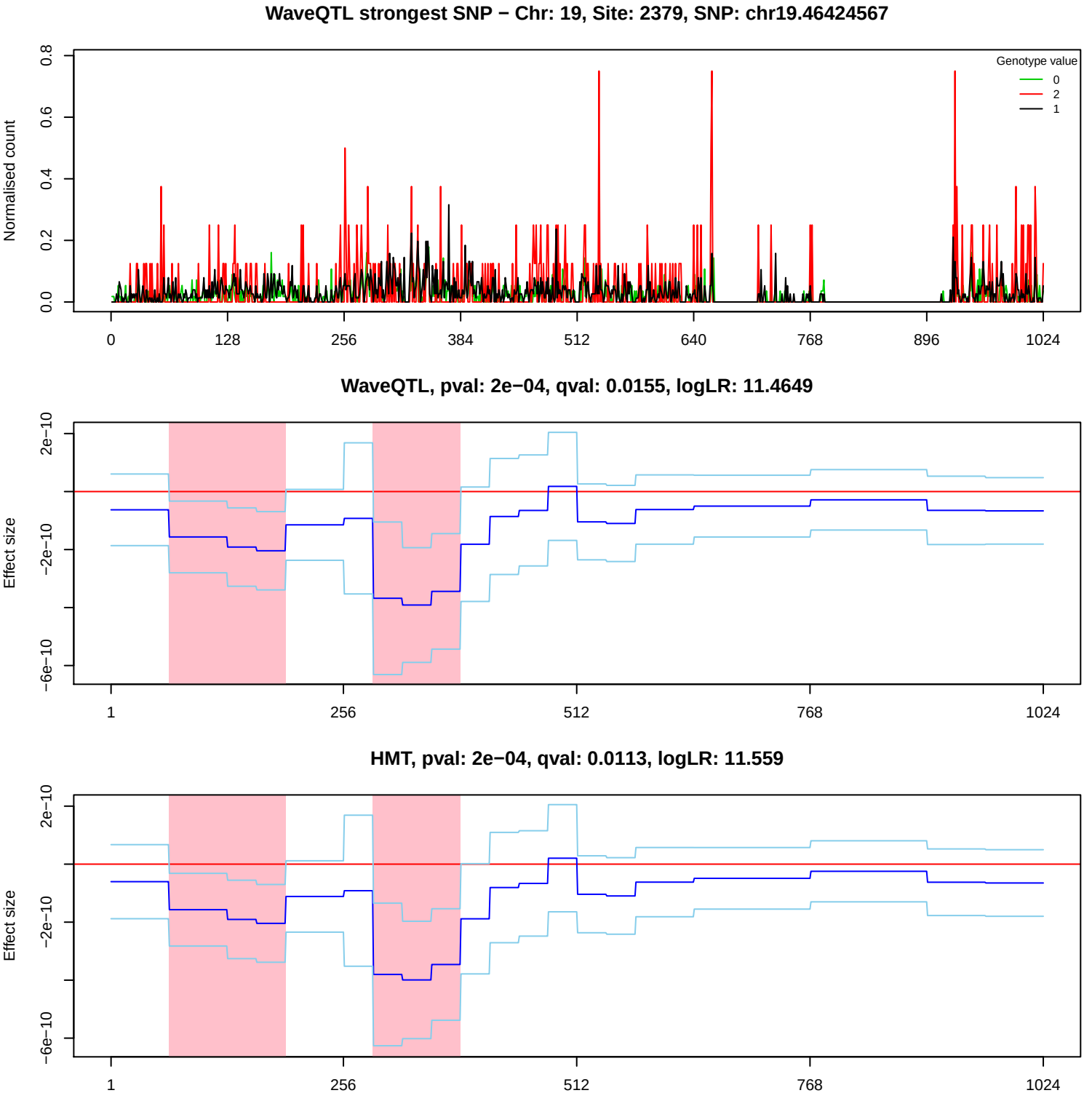

HMT strongest SNP − Chr: 19, Site: 750, SNP: chr19.5776473
Normalised count
Genotype value
1
0
2
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.0011, qval: 0.0519, logLR: 19.7974
Effect size
1.0e−08
0.0e+00
−1.0e−08
1
256
512
768
1024
HMT, pval: 0.0011, qval: 0.042, logLR: 20.4905
Effect size
1.0e−08
0.0e+00
−1.0e−08
1
256
512
768
1024

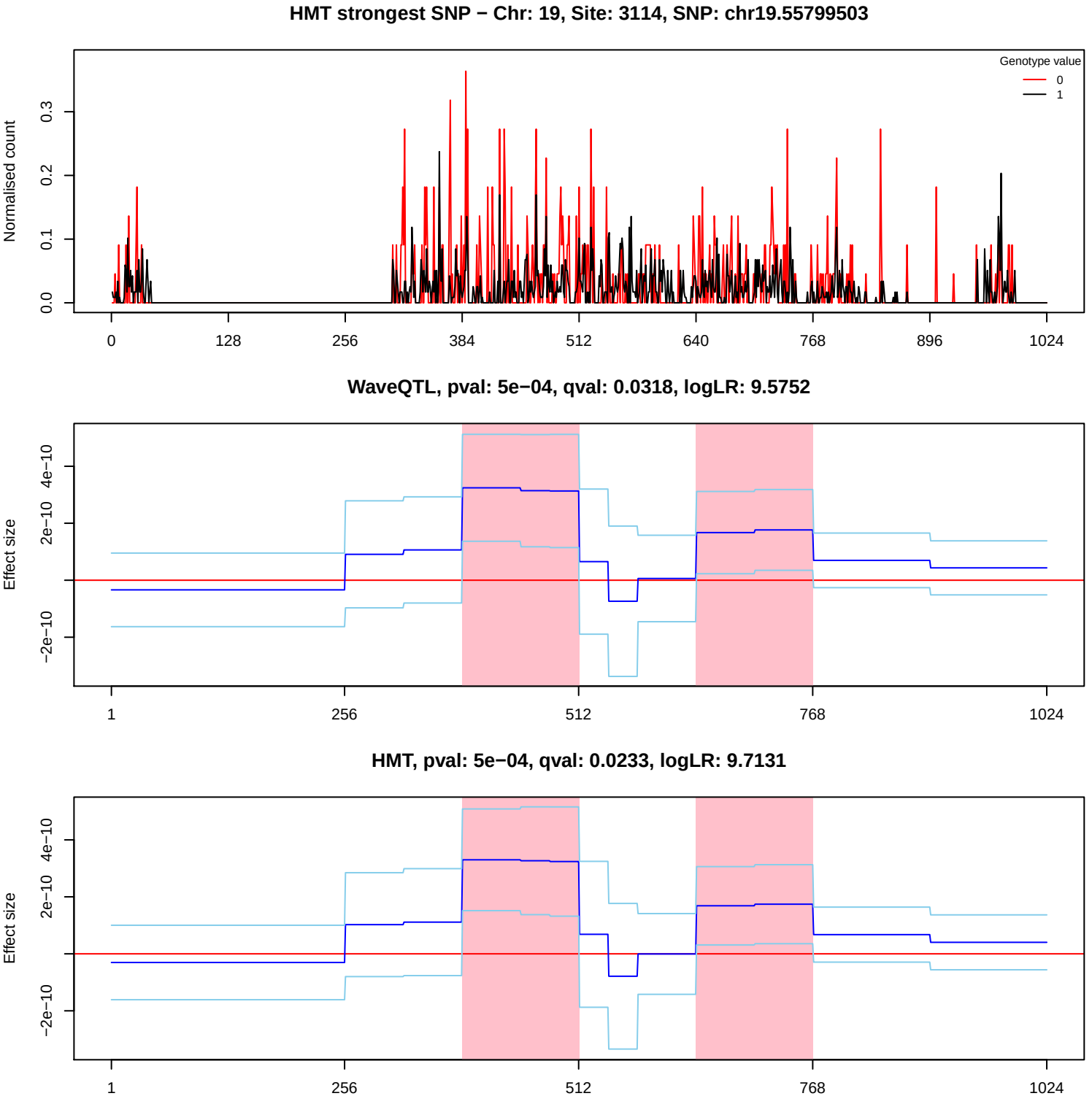

WaveQTL strongest SNP − Chr: 19, Site: 750, SNP: chr19.5776473
Normalised count
Genotype value
1
0
2
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.0011, qval: 0.0519, logLR: 19.7974
Effect size
1.0e−08
0.0e+00
−1.0e−08
1
256
512
768
1024
HMT, pval: 0.0011, qval: 0.042, logLR: 20.4905
Effect size
1.0e−08
0.0e+00
−1.0e−08
1
256
512
768
1024

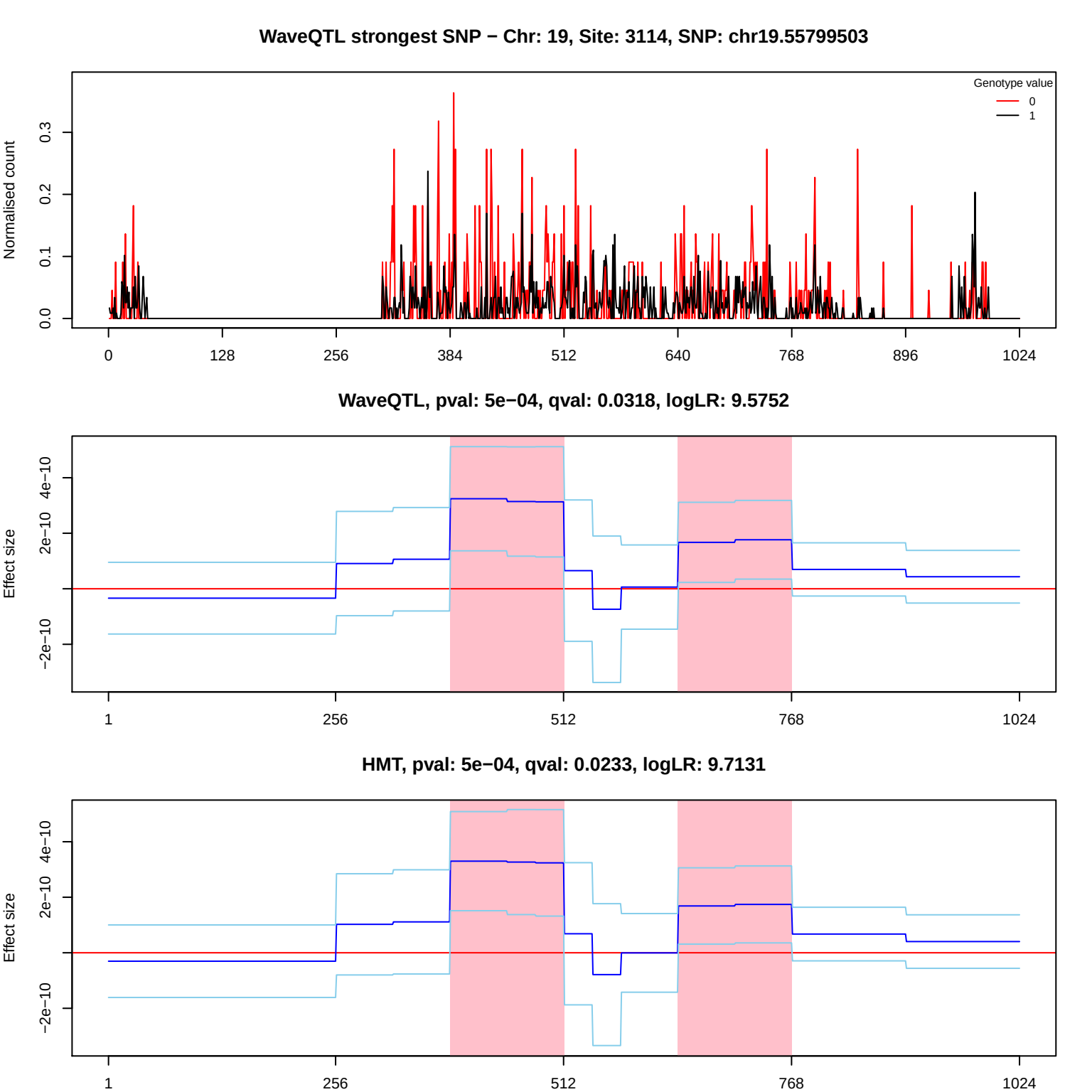

HMT strongest SNP − Chr: 19, Site: 1060, SNP: chr19.10926409
Genotype value
1
0
2
Normalised count
0.0
0.2
0.4
0.6
0.8
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 23.7784
Effect size
−2e−10
2e−10
6e−10
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 23.8299
Effect size
−2e−10
2e−10
6e−10
1
256
512
768
1024

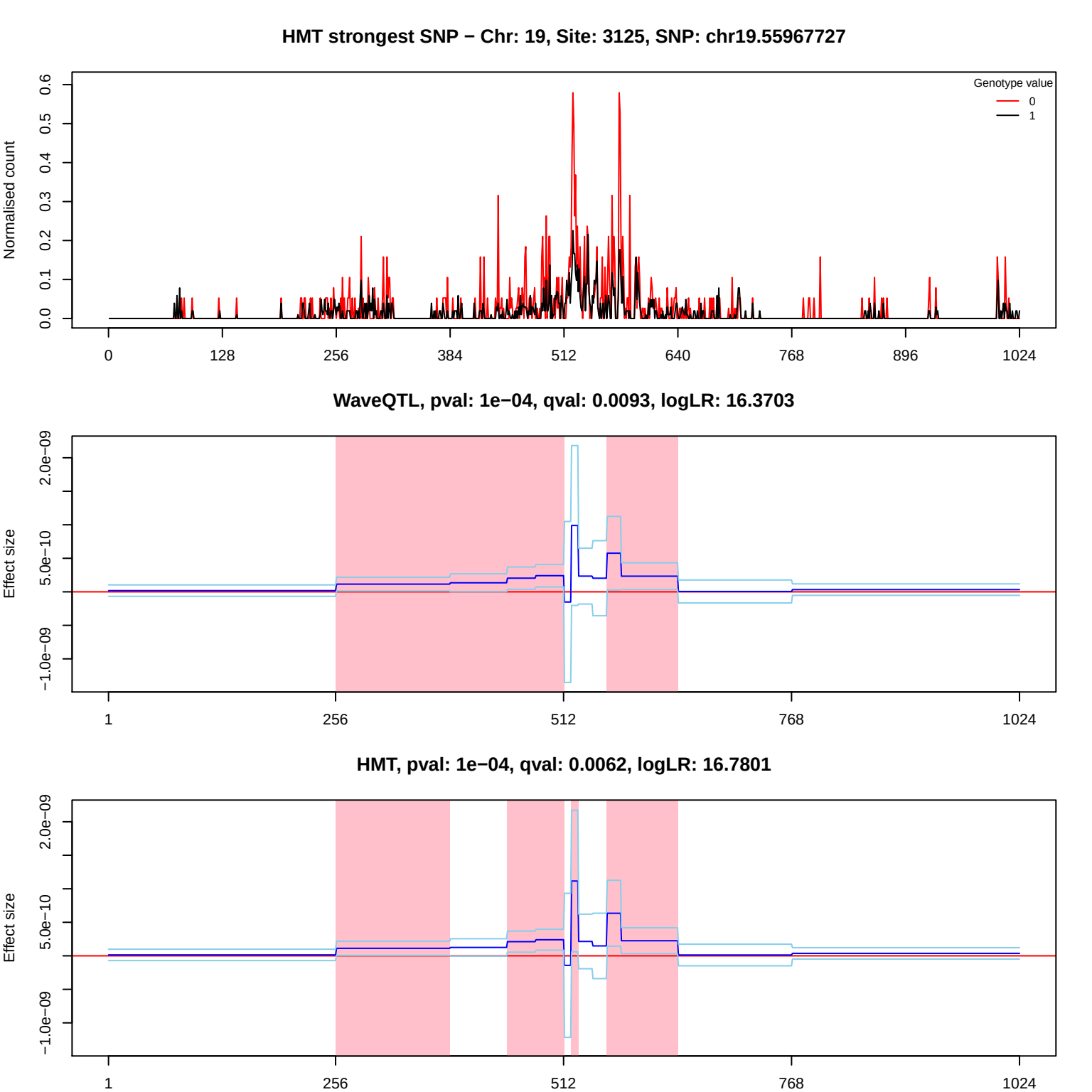

WaveQTL strongest SNP − Chr: 19, Site: 1060, SNP: chr19.10926409
Genotype value
1
0
2
Normalised count
0.0
0.2
0.4
0.6
0.8
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 23.7784
Effect size
−2e−10
2e−10
6e−10
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 23.8299
Effect size
−2e−10
2e−10
6e−10
1
256
512
768
1024

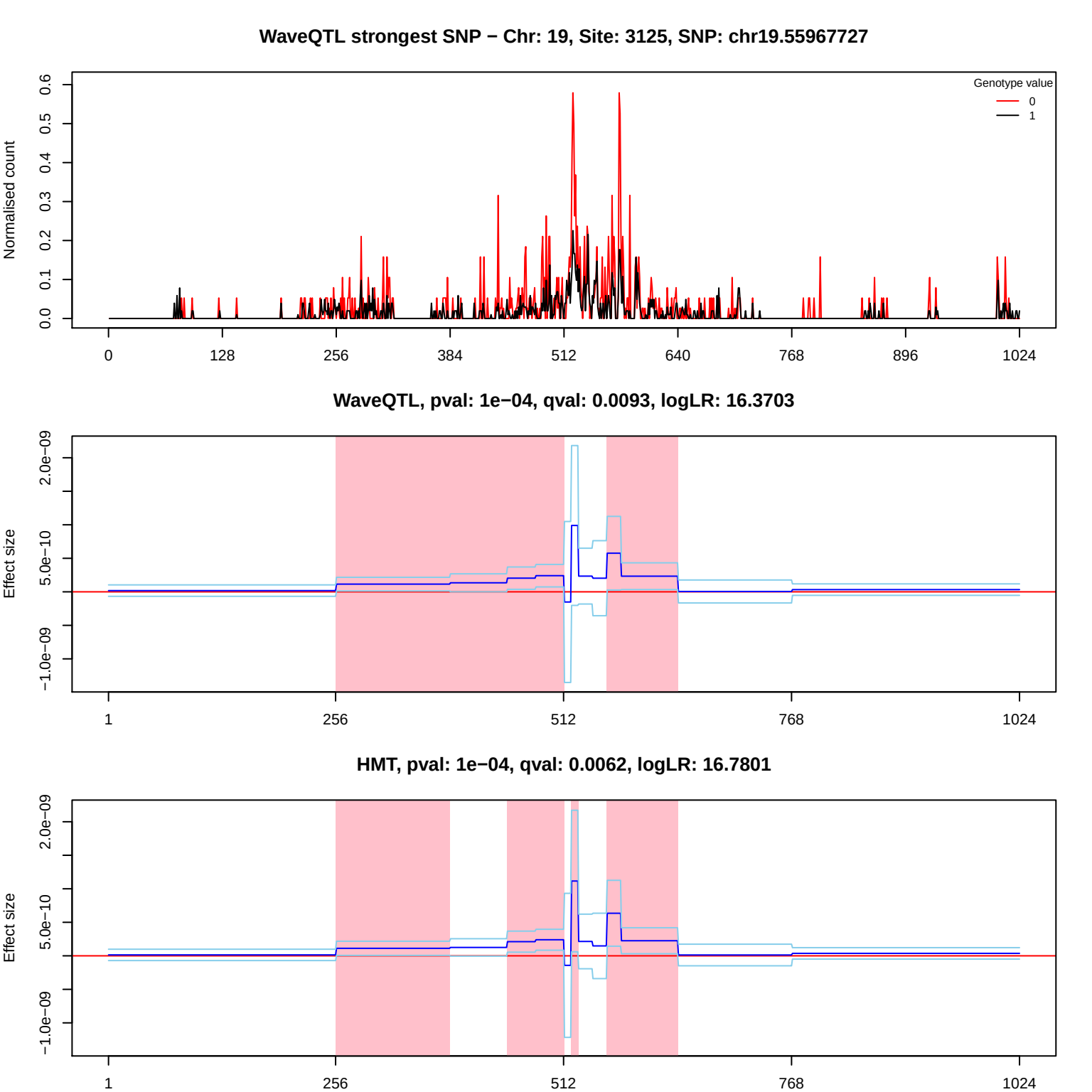

HMT strongest SNP − Chr: 19, Site: 2379, SNP: chr19.46424567
Normalised count
0.0
0.2
0.4
0.6
0.8
Genotype value
0
2
1
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 2e−04, qval: 0.0155, logLR: 11.4649
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024
HMT, pval: 2e−04, qval: 0.0113, logLR: 11.559
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024

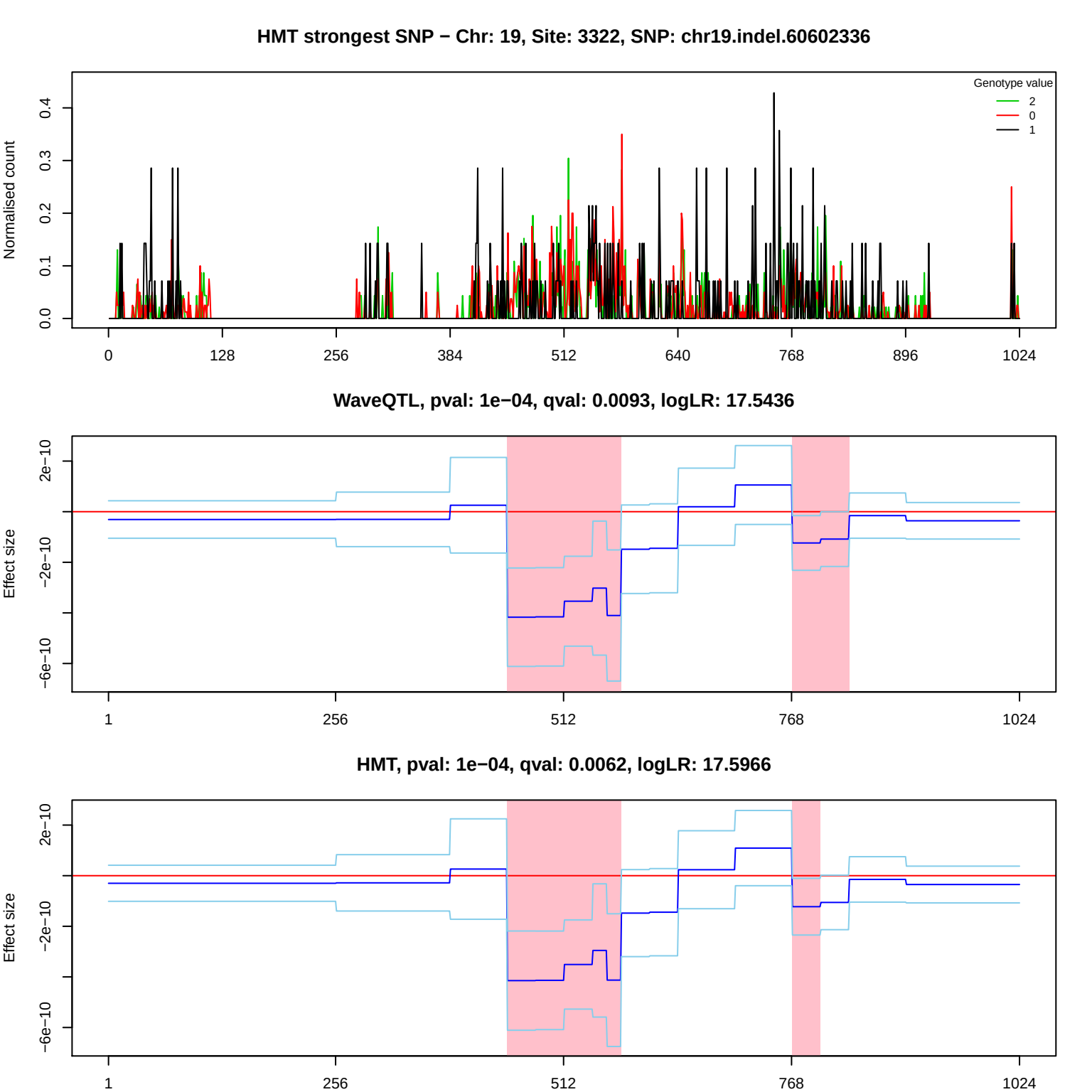

WaveQTL strongest SNP − Chr: 19, Site: 2379, SNP: chr19.46424567
Normalised count
0.0
0.2
0.4
0.6
0.8
Genotype value
0
2
1
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 2e−04, qval: 0.0155, logLR: 11.4649
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024
HMT, pval: 2e−04, qval: 0.0113, logLR: 11.559
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024

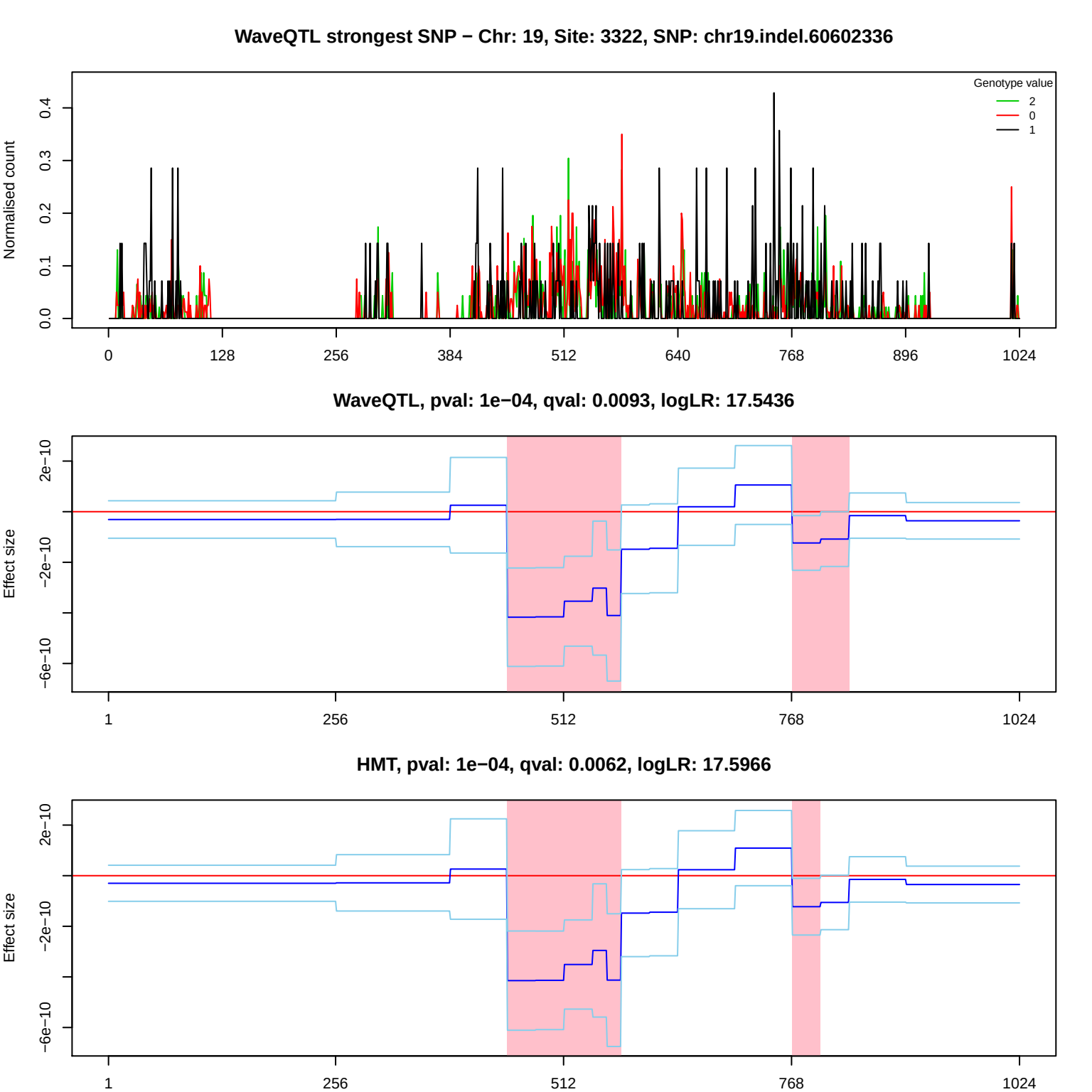

HMT strongest SNP − Chr: 19, Site: 3114, SNP: chr19.55799503
Genotype value
0
1
Normalised count
0.0
0.1
0.2
0.3
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 5e−04, qval: 0.0318, logLR: 9.5752
Effect size
−2e−10
2e−10
4e−10
1
256
512
768
1024
HMT, pval: 5e−04, qval: 0.0233, logLR: 9.7131
Effect size
−2e−10
2e−10
4e−10
1
256
512
768
1024

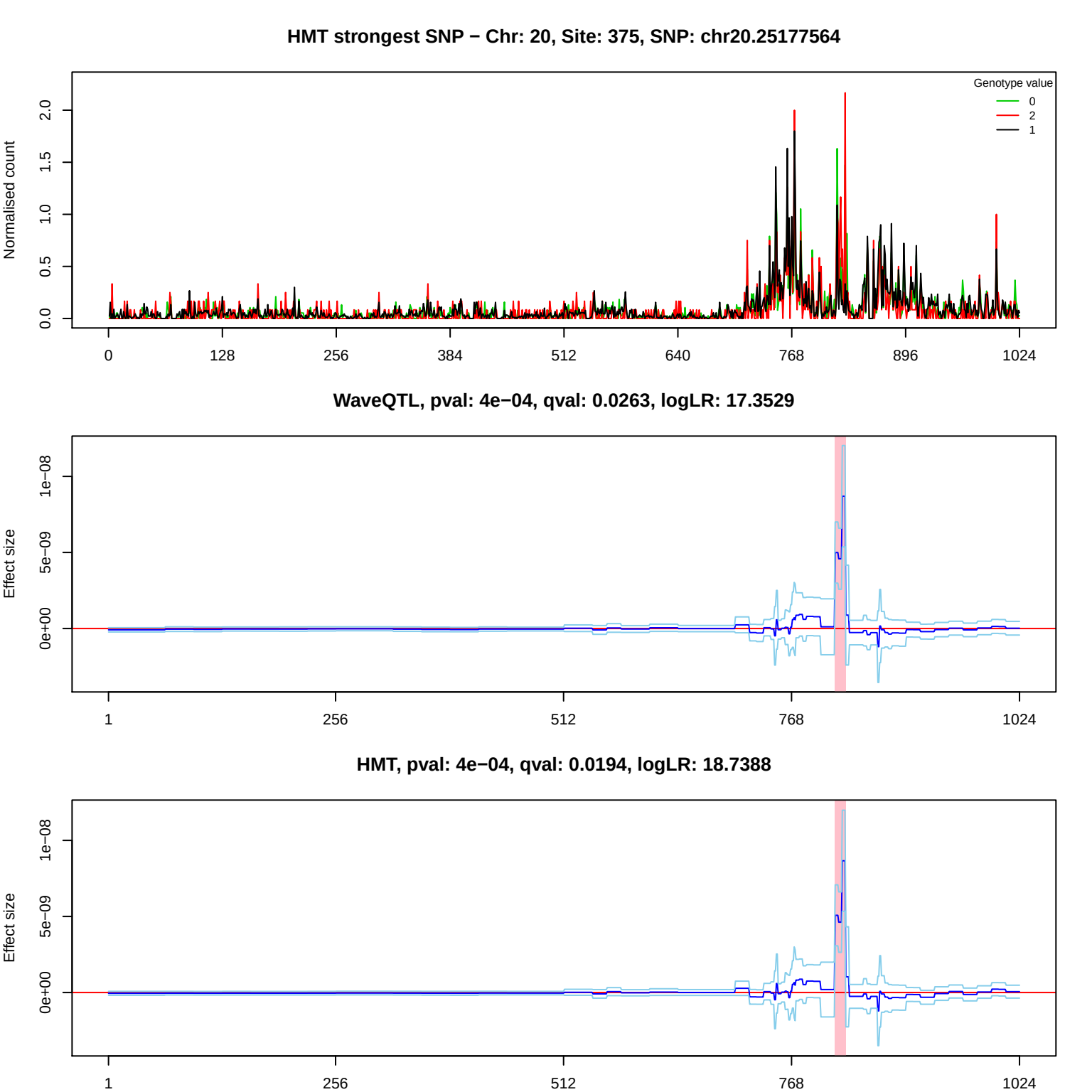

WaveQTL strongest SNP − Chr: 19, Site: 3114, SNP: chr19.55799503
Genotype value
0
1
Normalised count
0.0
0.1
0.2
0.3
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 5e−04, qval: 0.0318, logLR: 9.5752
Effect size
−2e−10
2e−10
4e−10
1
256
512
768
1024
HMT, pval: 5e−04, qval: 0.0233, logLR: 9.7131
Effect size
−2e−10
2e−10
4e−10
1
256
512
768
1024

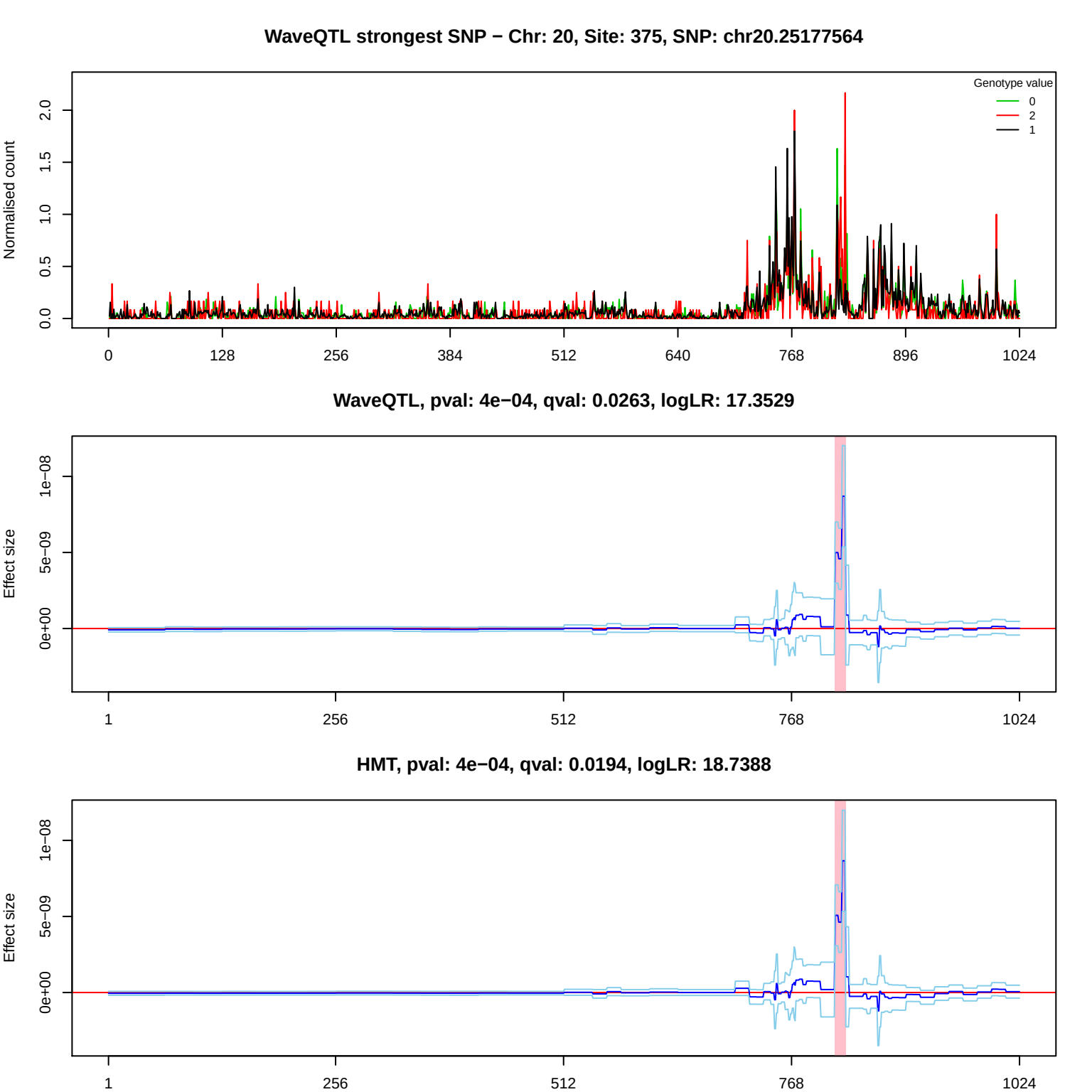

HMT strongest SNP − Chr: 19, Site: 3125, SNP: chr19.55967727
Genotype value
0
1
Normalised count
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 16.3703
Effect size
2.0e−09
5.0e−10
−1.0e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 16.7801
Effect size
2.0e−09
5.0e−10
−1.0e−09
1
256
512
768
1024

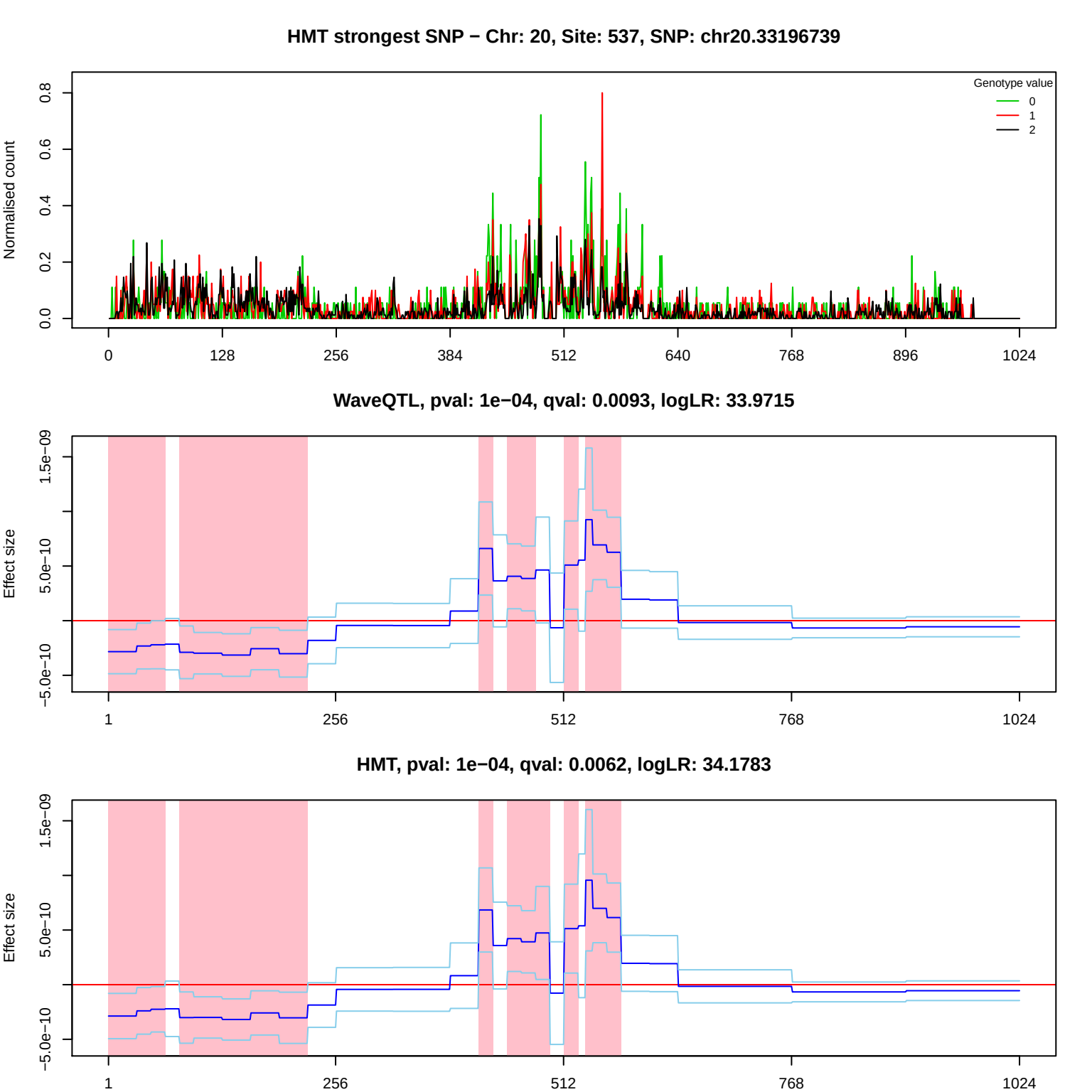

WaveQTL strongest SNP − Chr: 19, Site: 3125, SNP: chr19.55967727
Normalised count
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Genotype value
0
1
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 16.3703
Effect size
2.0e−09
5.0e−10
−1.0e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 16.7801
Effect size
2.0e−09
5.0e−10
−1.0e−09
1
256
512
768
1024

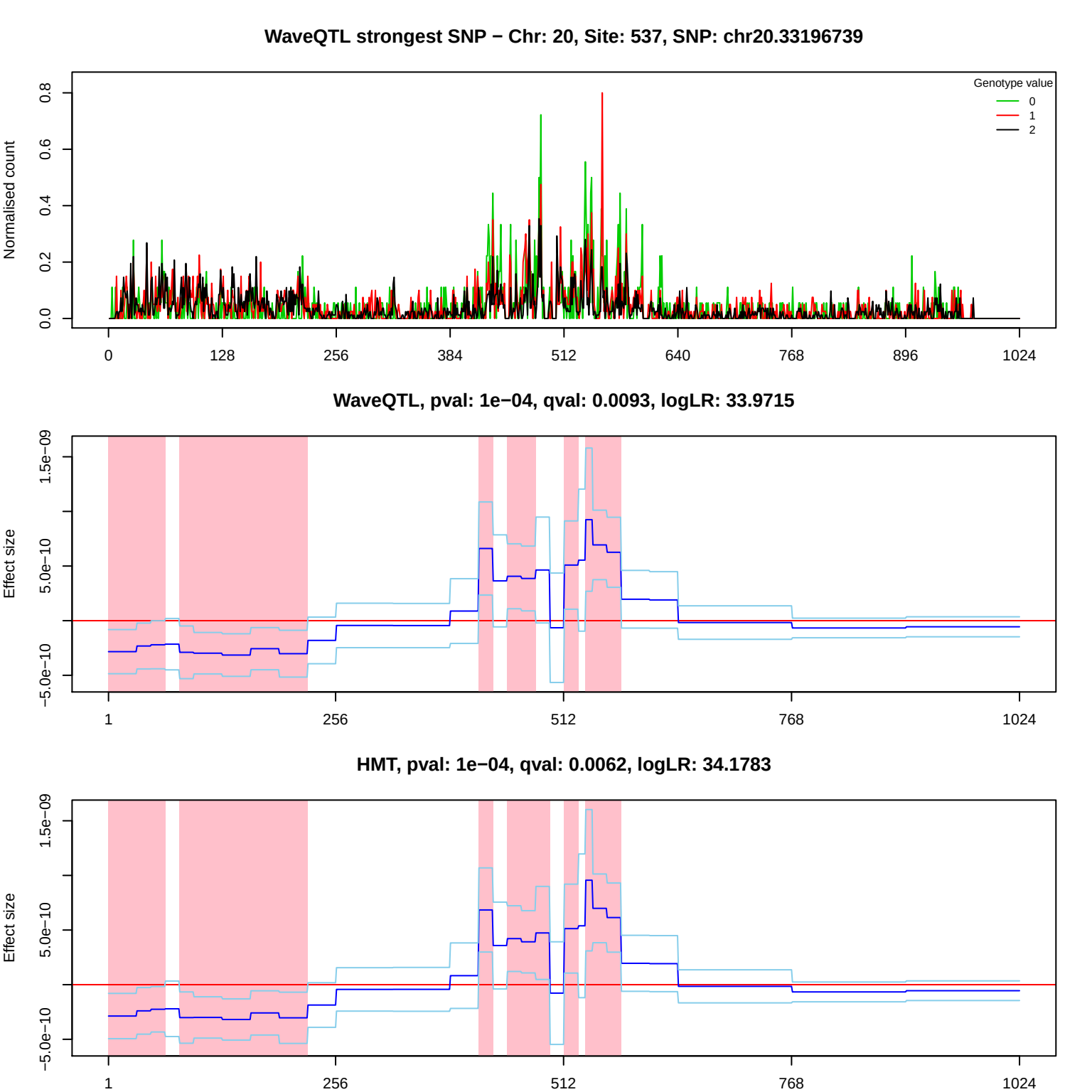

HMT strongest SNP − Chr: 19, Site: 3322, SNP: chr19.indel.60602336
Genotype value
2
0
1
Normalised count
0.0
0.1
0.2
0.3
0.4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 17.5436
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 17.5966
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024

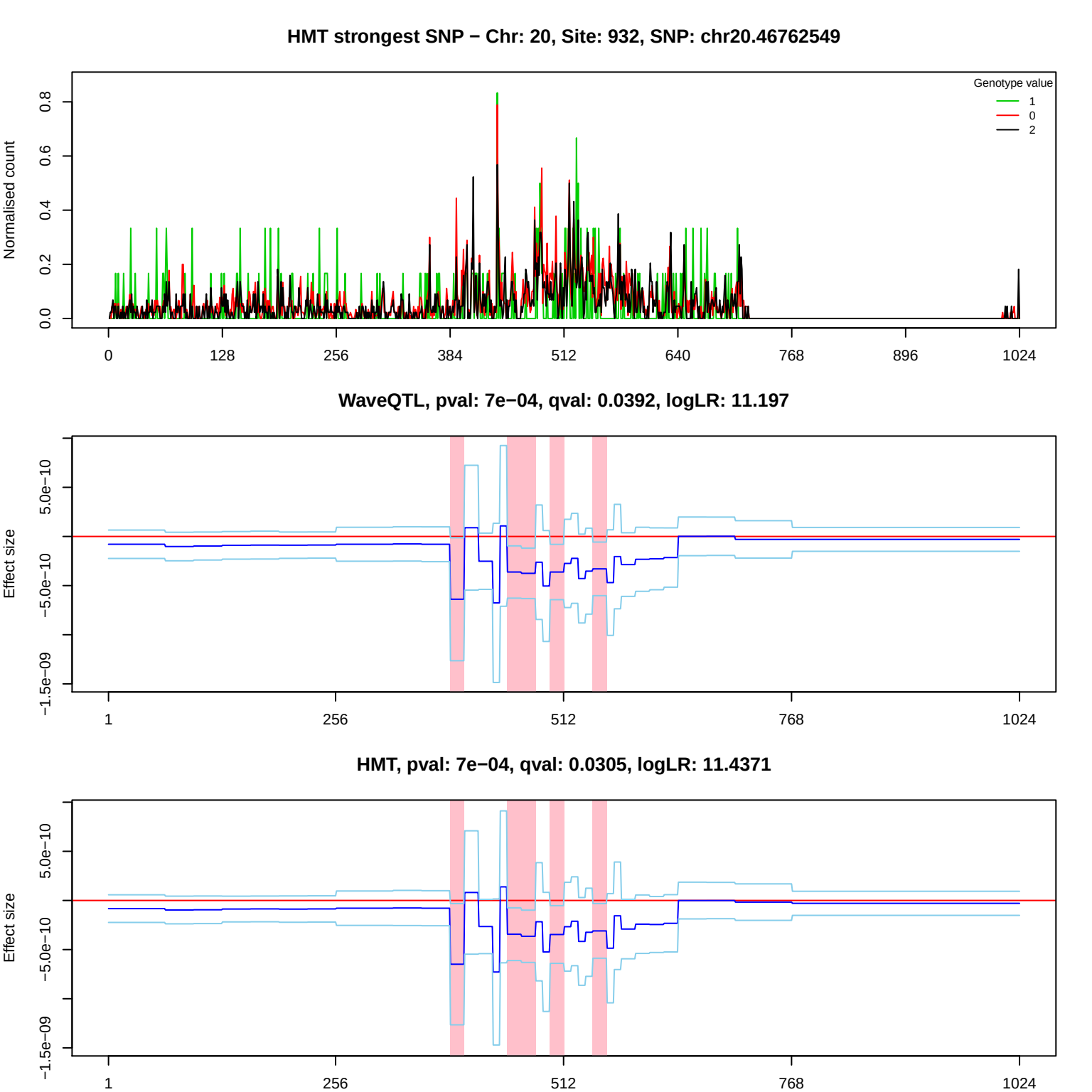

WaveQTL strongest SNP − Chr: 19, Site: 3322, SNP: chr19.indel.60602336
Normalised count
0.0
0.1
0.2
0.3
0.4
Genotype value
2
0
1
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 17.5436
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 17.5966
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024

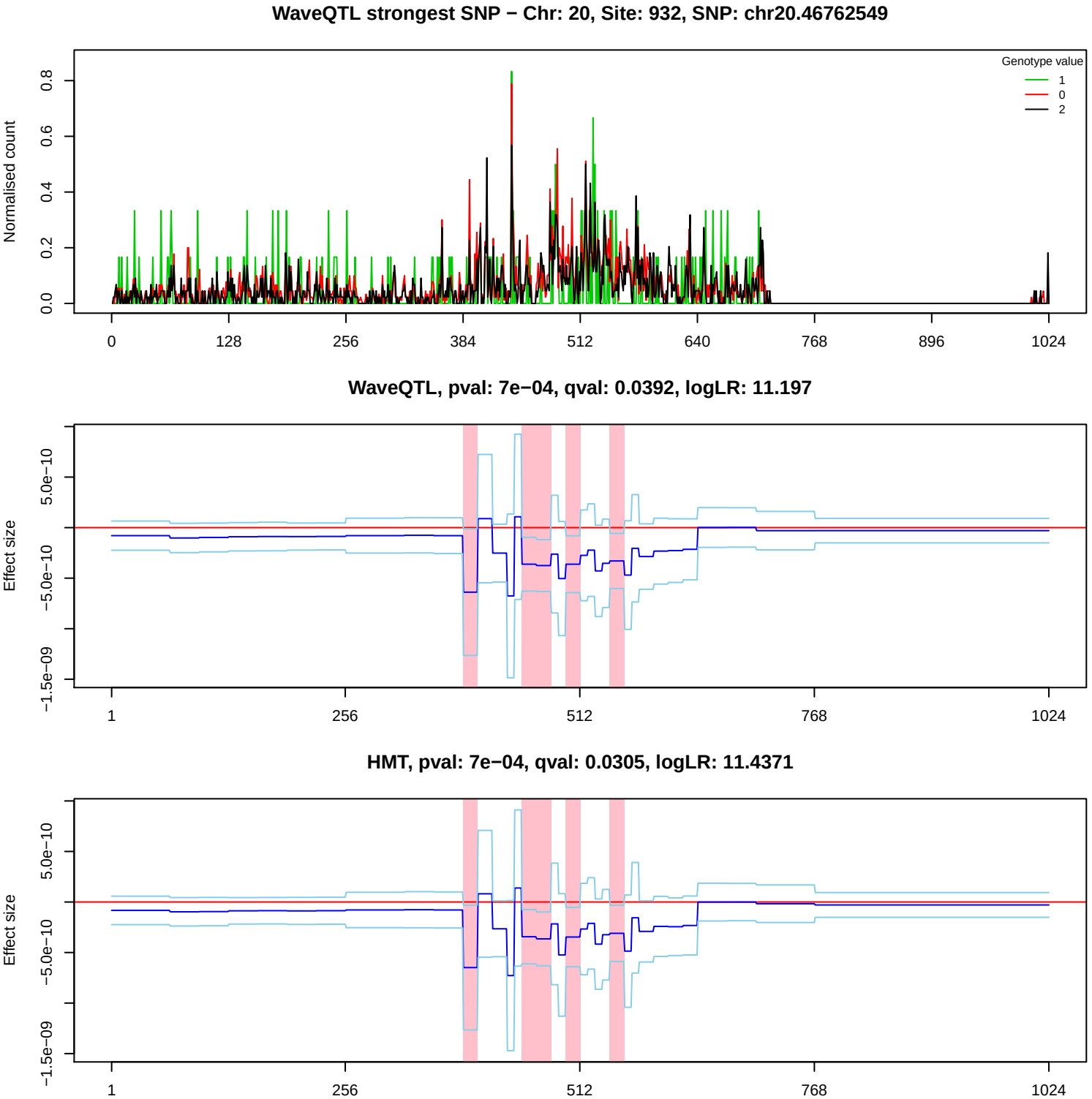

HMT strongest SNP − Chr: 20, Site: 375, SNP: chr20.25177564
Genotype value
0
2
1
Normalised count
0.0
0.5
1.0
1.5
2.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 4e−04, qval: 0.0263, logLR: 17.3529
Effect size
0e+00
5e−09
1e−08
1
256
512
768
1024
HMT, pval: 4e−04, qval: 0.0194, logLR: 18.7388
Effect size
0e+00
5e−09
1e−08
1
256
512
768
1024

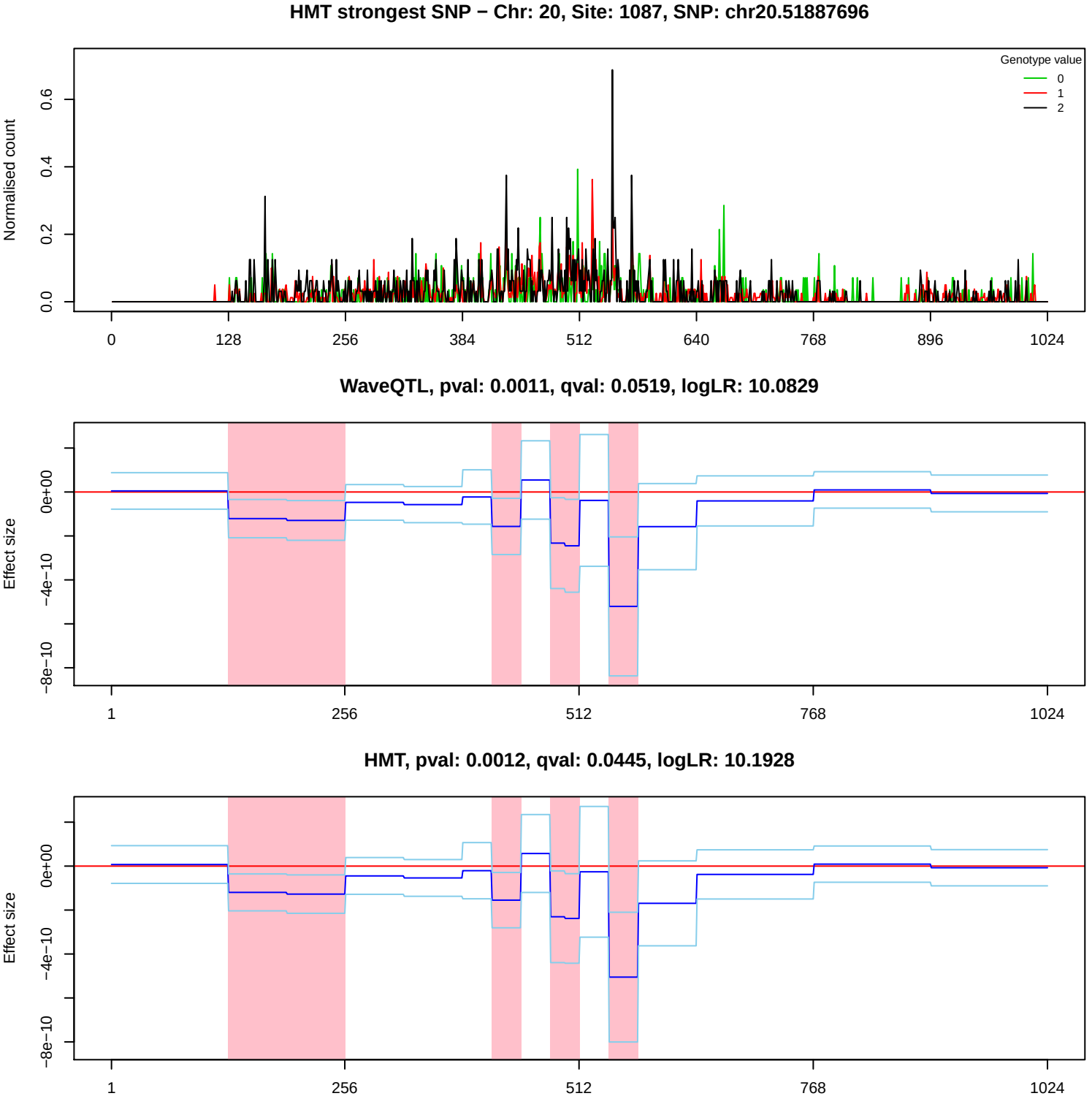

WaveQTL strongest SNP − Chr: 20, Site: 375, SNP: chr20.25177564
Genotype value
0
2
1
Normalised count
0.0
0.5
1.0
1.5
2.0
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 4e−04, qval: 0.0263, logLR: 17.3529
Effect size
0e+00
5e−09
1e−08
1
256
512
768
1024
HMT, pval: 4e−04, qval: 0.0194, logLR: 18.7388
Effect size
0e+00
5e−09
1e−08
1
256
512
768
1024

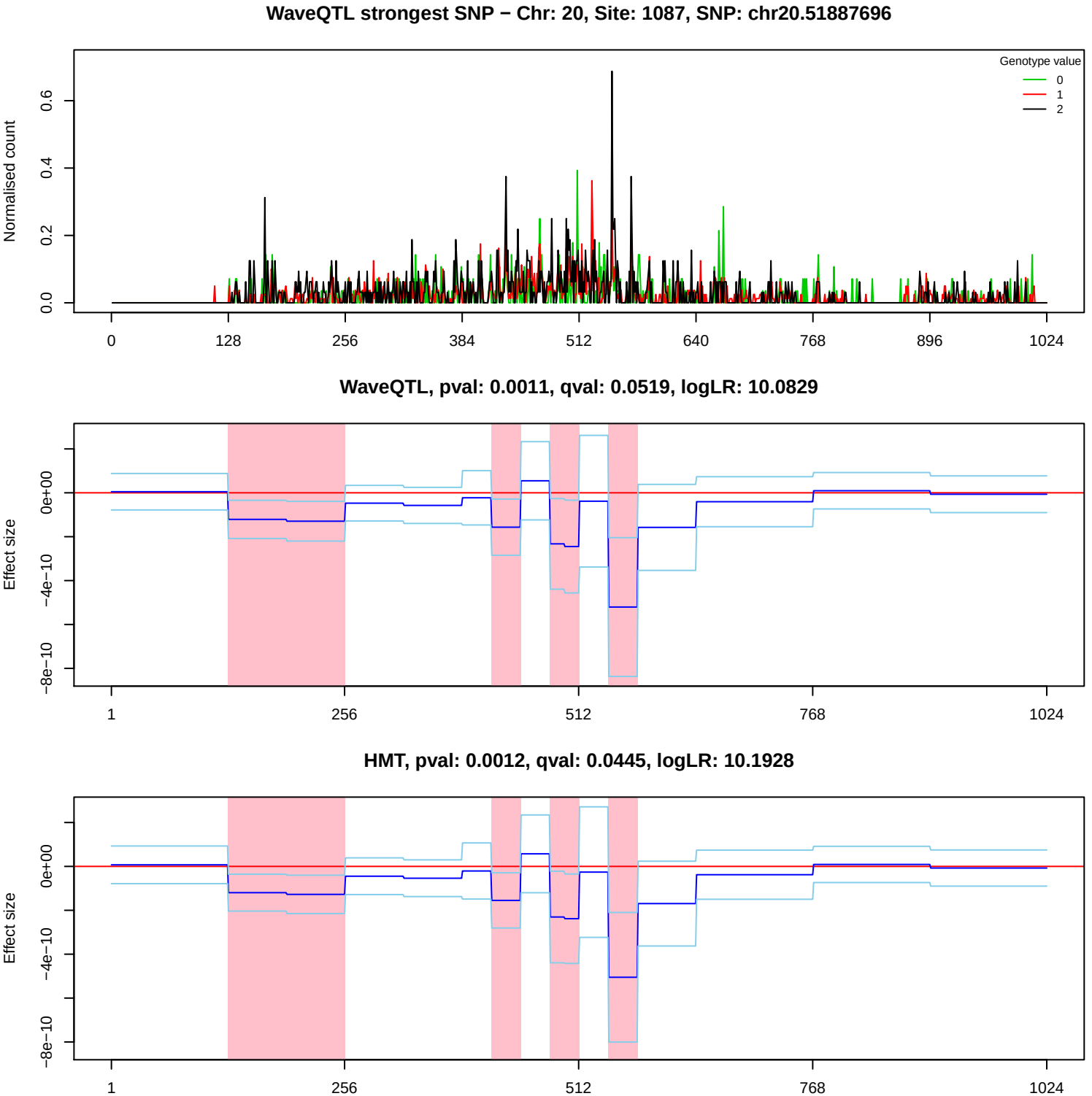

HMT strongest SNP − Chr: 20, Site: 537, SNP: chr20.33196739
Normalised count
0.0
0.2
0.4
0.6
0.8
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 33.9715
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 34.1783
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024

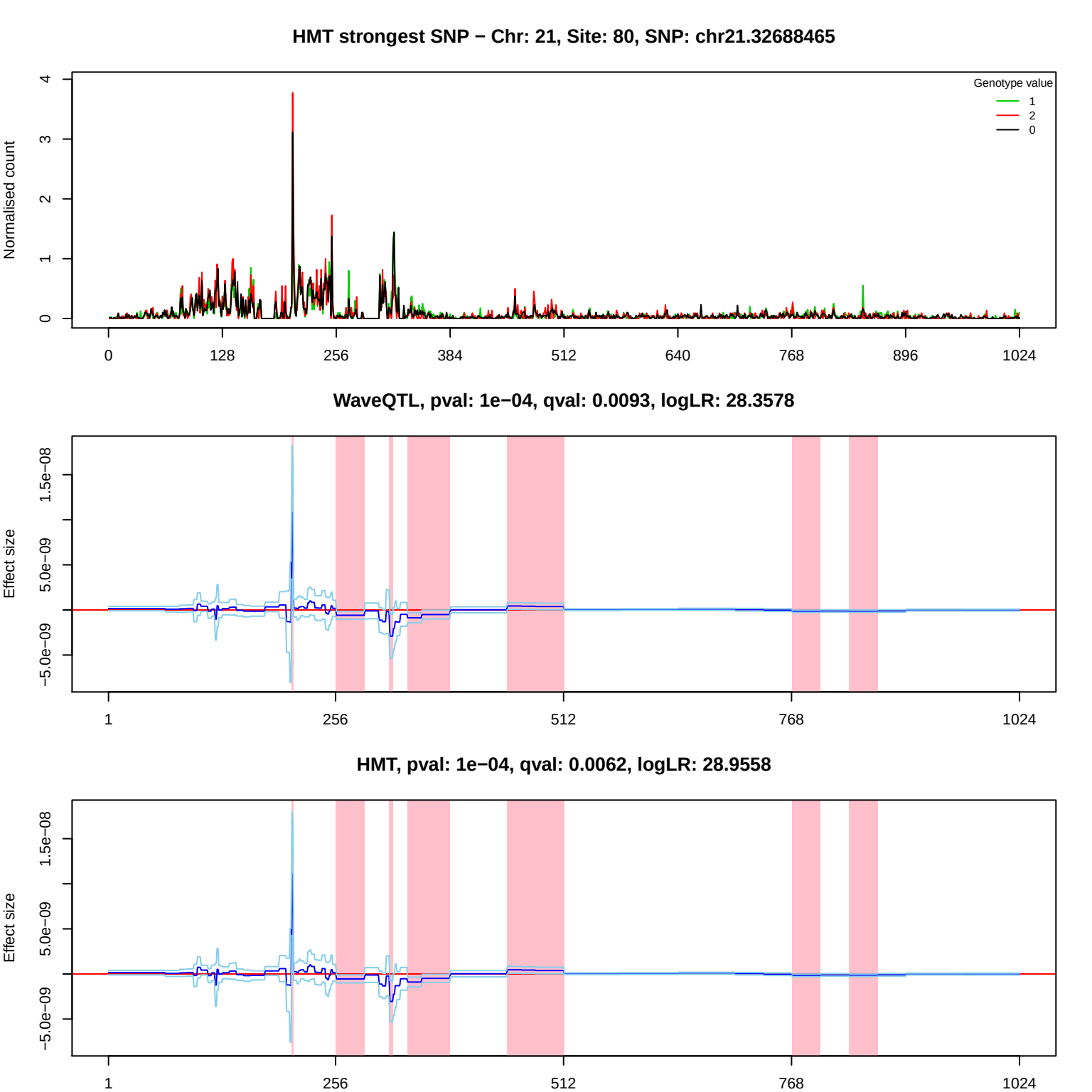

WaveQTL strongest SNP − Chr: 20, Site: 537, SNP: chr20.33196739
Normalised count
0.0
0.2
0.4
0.6
0.8
Genotype value
0
1
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 33.9715
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 34.1783
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024

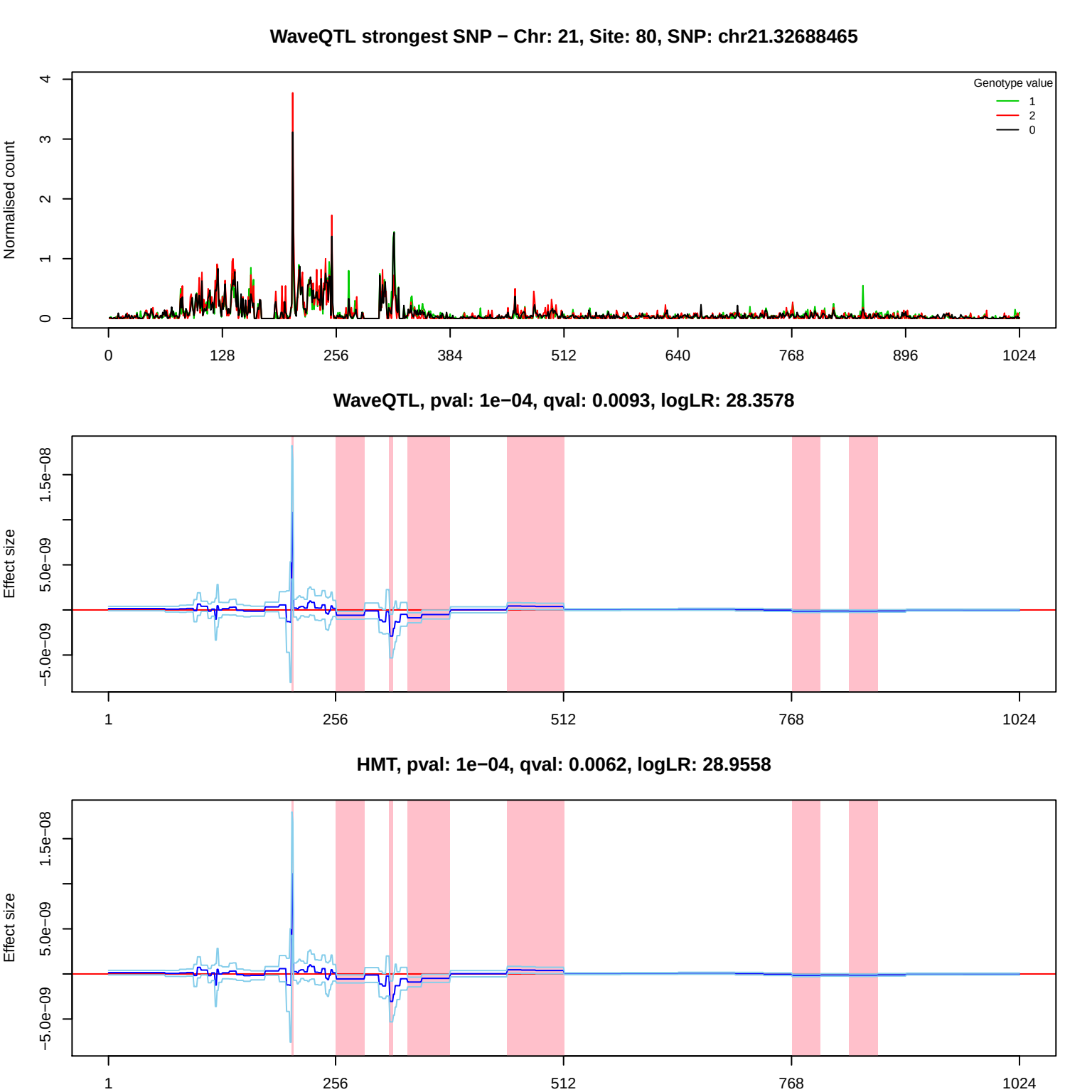

HMT strongest SNP − Chr: 20, Site: 932, SNP: chr20.46762549
Normalised count
0.0
0.2
0.4
0.6
0.8
Genotype value
1
0
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 7e−04, qval: 0.0392, logLR: 11.197
Effect size
5.0e−10
−5.0e−10
−1.5e−09
1
256
512
768
1024
HMT, pval: 7e−04, qval: 0.0305, logLR: 11.4371
Effect size
5.0e−10
−5.0e−10
−1.5e−09
1
256
512
768
1024

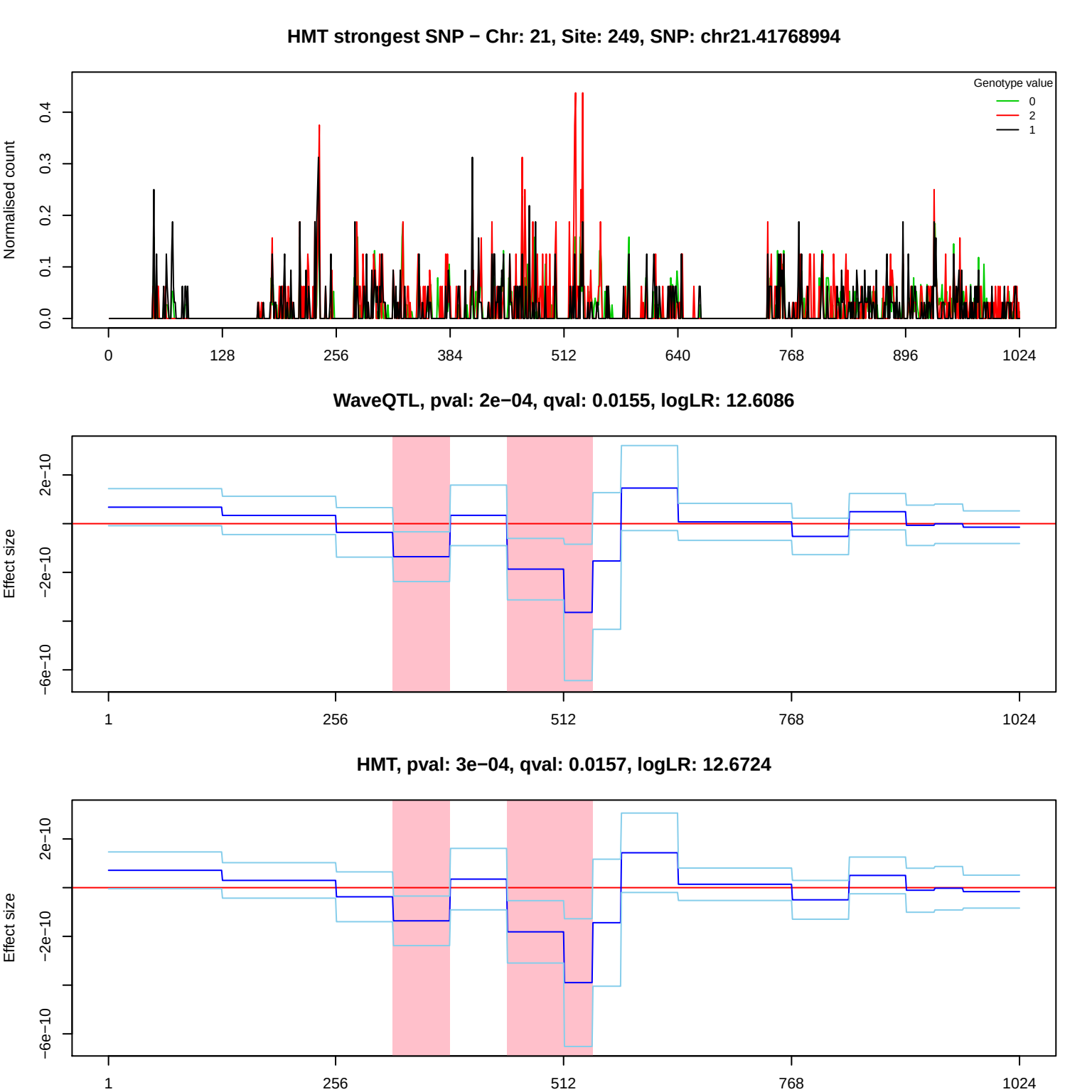

WaveQTL strongest SNP − Chr: 20, Site: 932, SNP: chr20.46762549
Normalised count
0.0
0.2
0.4
0.6
0.8
Genotype value
1
0
2
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 7e−04, qval: 0.0392, logLR: 11.197
Effect size
5.0e−10
−5.0e−10
−1.5e−09
1
256
512
768
1024
HMT, pval: 7e−04, qval: 0.0305, logLR: 11.4371
Effect size
5.0e−10
−5.0e−10
−1.5e−09
1
256
512
768
1024

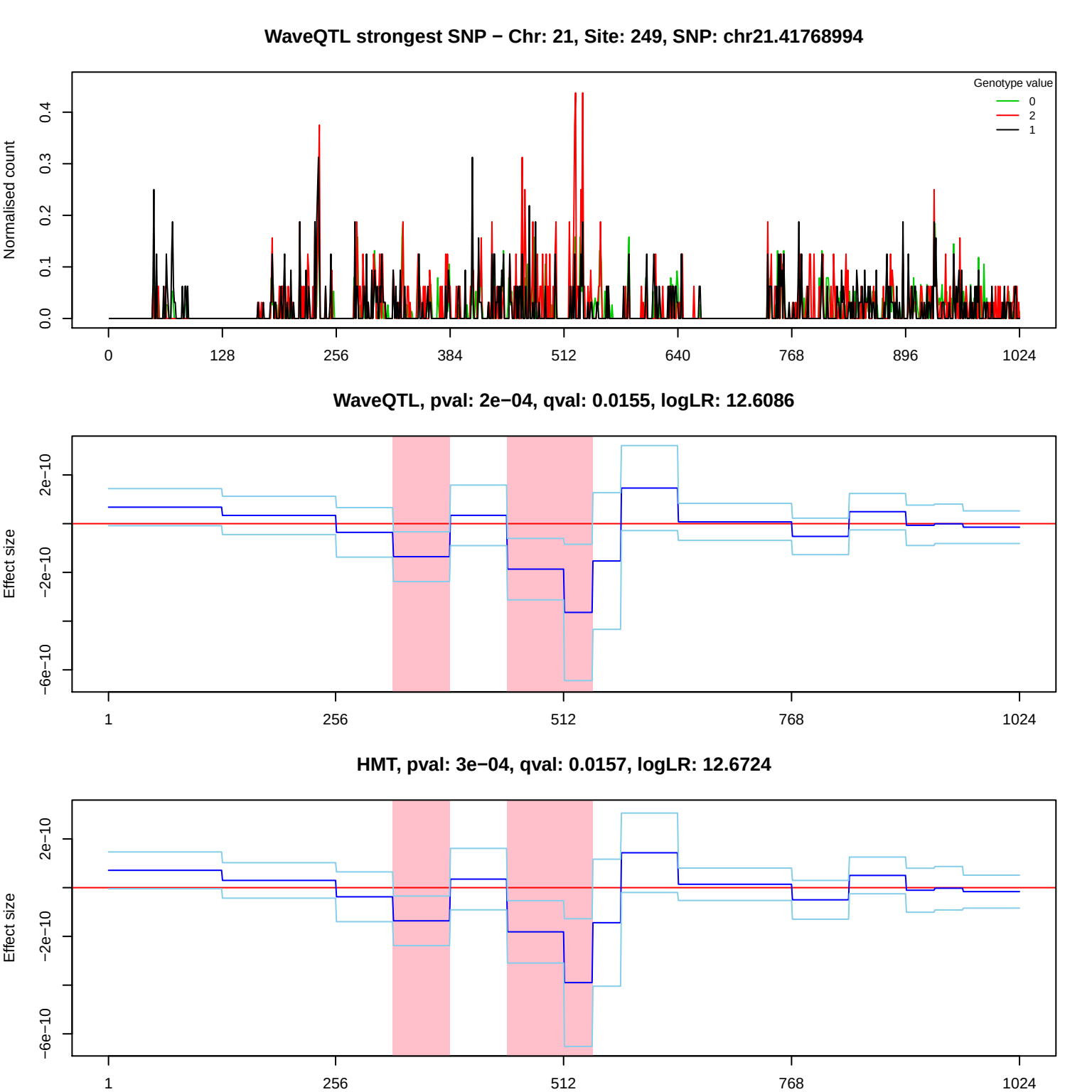

HMT strongest SNP − Chr: 20, Site: 1087, SNP: chr20.51887696
Genotype value
0
1
2
Normalised count
0.0
0.2
0.4
0.6
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.0011, qval: 0.0519, logLR: 10.0829
Effect size
−8e−10
−4e−10
0e+00
1
256
512
768
1024
HMT, pval: 0.0012, qval: 0.0445, logLR: 10.1928
Effect size
−8e−10
−4e−10
0e+00
1
256
512
768
1024

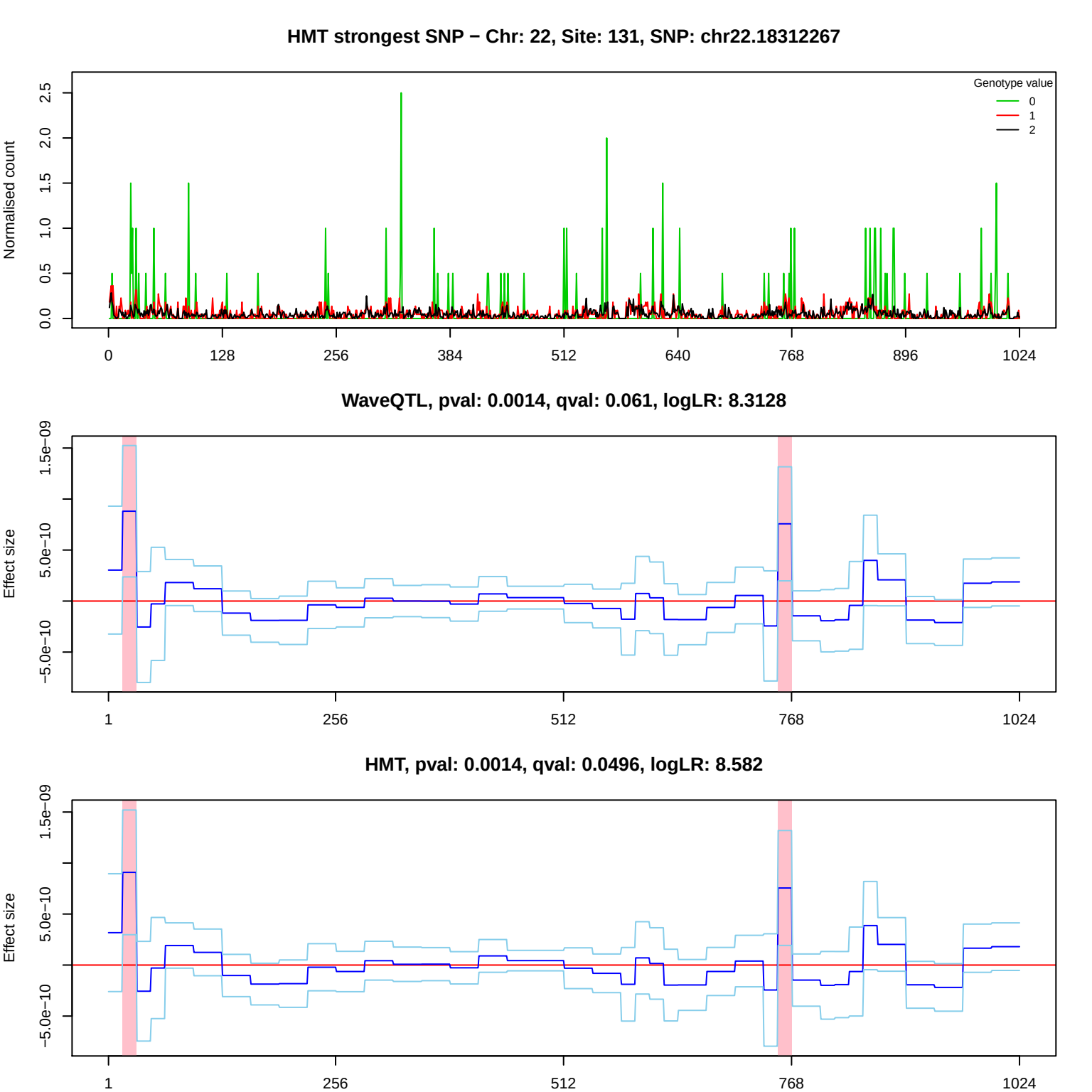

WaveQTL strongest SNP − Chr: 20, Site: 1087, SNP: chr20.51887696
Genotype value
0
1
2
Normalised count
0.0
0.2
0.4
0.6
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.0011, qval: 0.0519, logLR: 10.0829
Effect size
0e+00
−4e−10
−8e−10
1
256
512
768
1024
HMT, pval: 0.0012, qval: 0.0445, logLR: 10.1928
Effect size
0e+00
−4e−10
−8e−10
1
256
512
768
1024

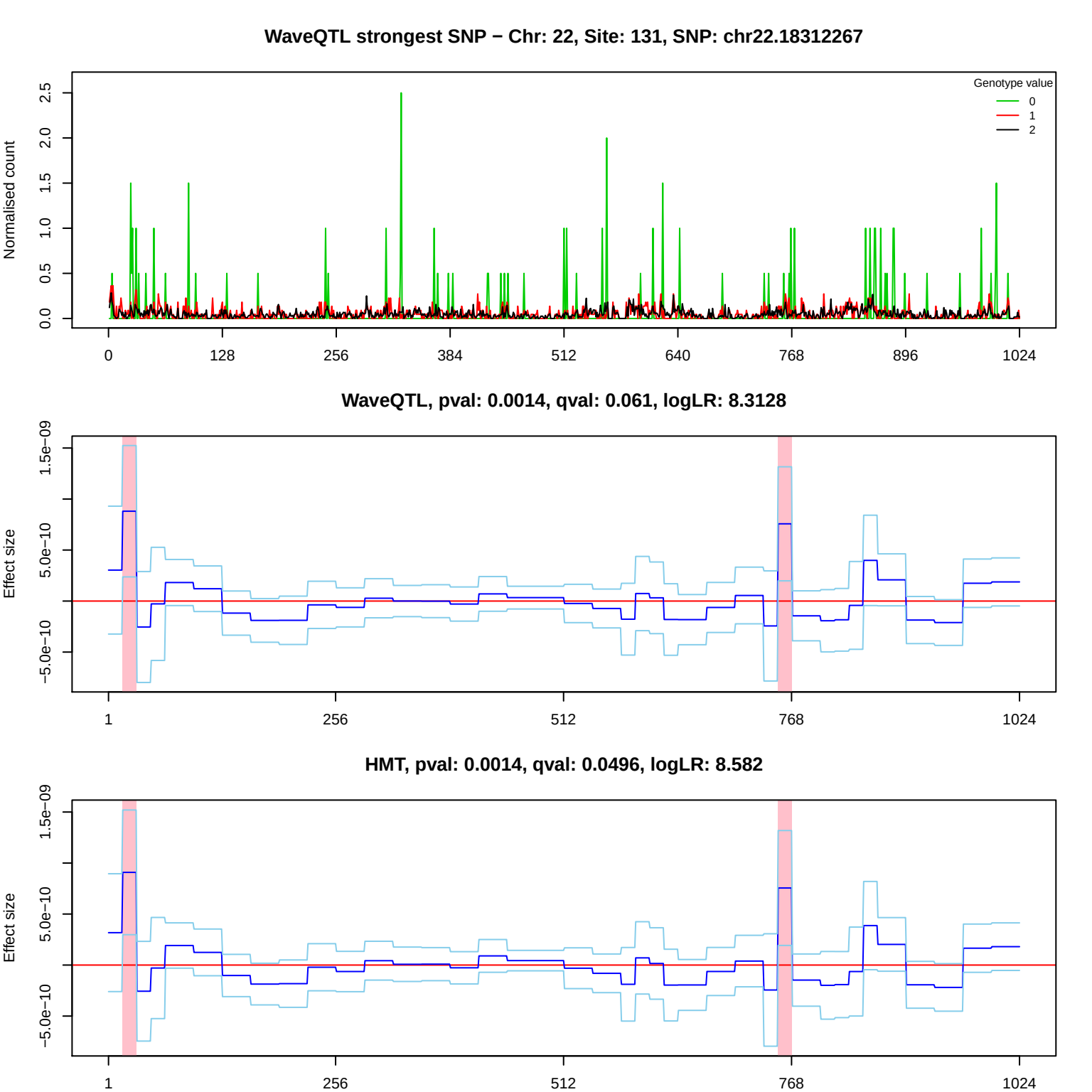

HMT strongest SNP − Chr: 21, Site: 80, SNP: chr21.32688465
Normalised count
Genotype value
1
2
0
0
1
2
3
4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 28.3578
Effect size
1.5e−08
5.0e−09
−5.0e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 28.9558
Effect size
1.5e−08
5.0e−09
−5.0e−09
1
256
512
768
1024

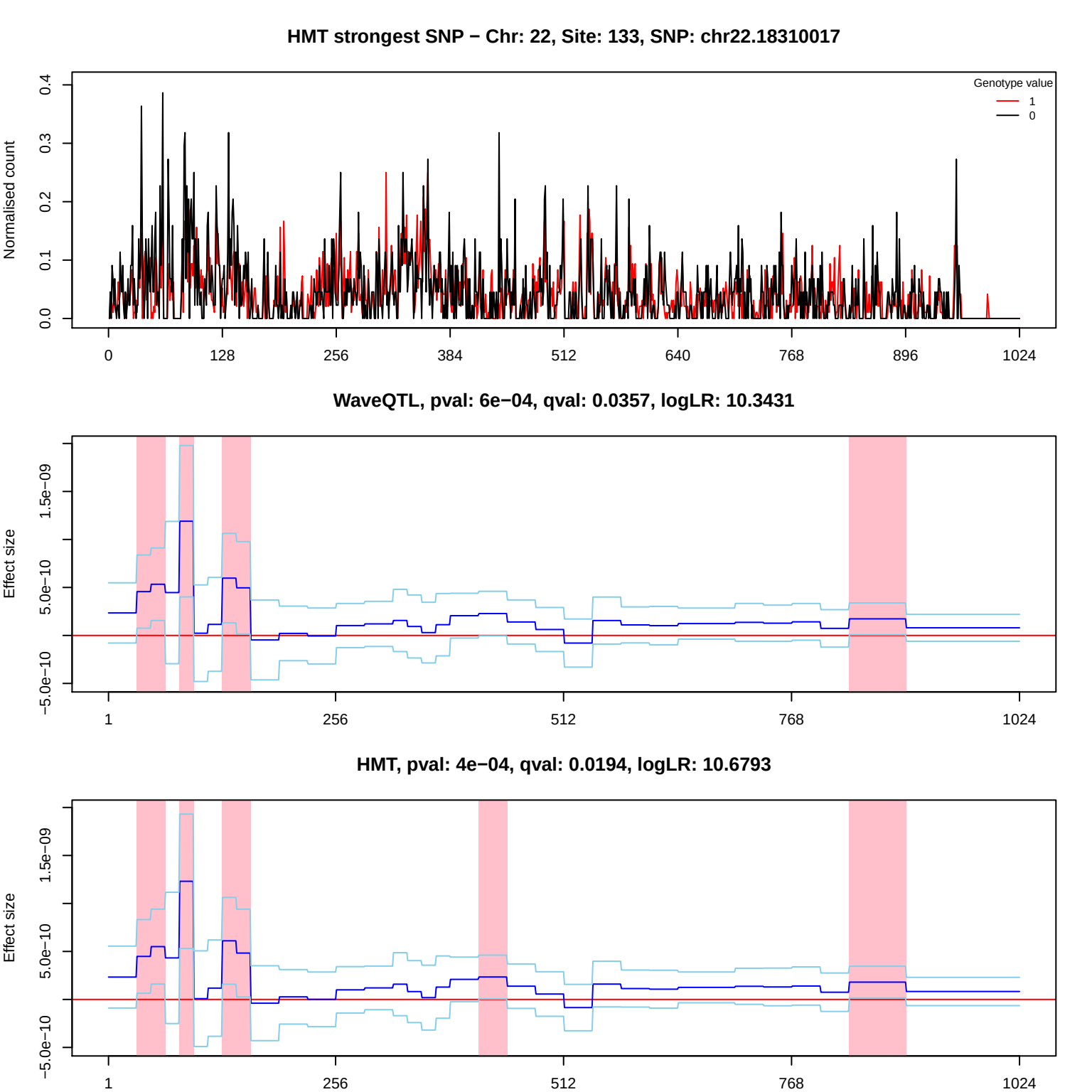

WaveQTL strongest SNP − Chr: 21, Site: 80, SNP: chr21.32688465
Normalised count
Genotype value
1
2
0
0
1
2
3
4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 1e−04, qval: 0.0093, logLR: 28.3578
Effect size
1.5e−08
5.0e−09
−5.0e−09
1
256
512
768
1024
HMT, pval: 1e−04, qval: 0.0062, logLR: 28.9558
Effect size
1.5e−08
5.0e−09
−5.0e−09
1
256
512
768
1024

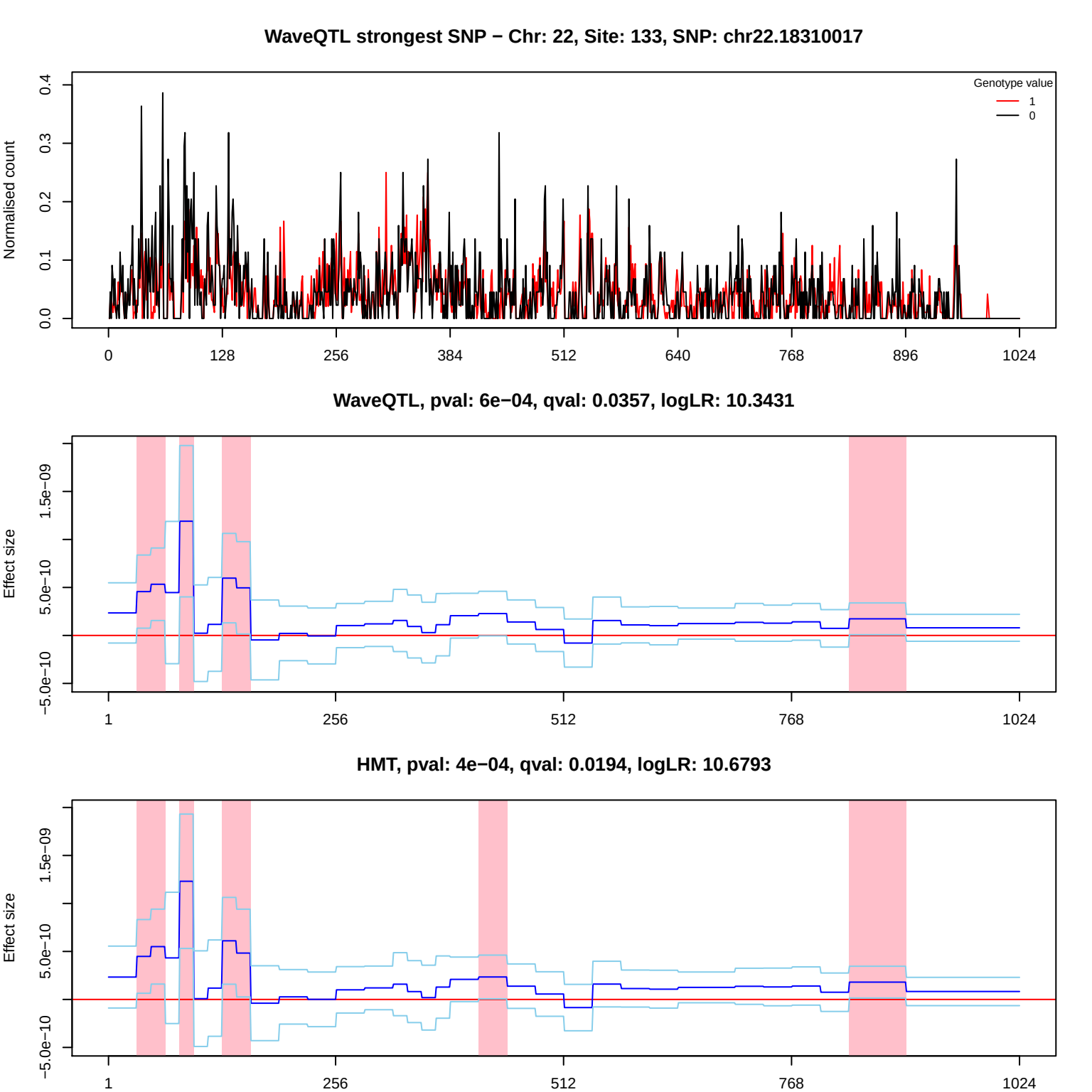

HMT strongest SNP − Chr: 21, Site: 249, SNP: chr21.41768994
Genotype value
0
2
1
Normalised count
0.0
0.1
0.2
0.3
0.4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 2e−04, qval: 0.0155, logLR: 12.6086
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024
HMT, pval: 3e−04, qval: 0.0157, logLR: 12.6724
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024


WaveQTL strongest SNP − Chr: 21, Site: 249, SNP: chr21.41768994
Genotype value
0
2
1
Normalised count
0.0
0.1
0.2
0.3
0.4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 2e−04, qval: 0.0155, logLR: 12.6086
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024
HMT, pval: 3e−04, qval: 0.0157, logLR: 12.6724
Effect size
2e−10
−2e−10
−6e−10
1
256
512
768
1024


HMT strongest SNP − Chr: 22, Site: 131, SNP: chr22.18312267
Normalised count
Genotype value
0
1
2
0.0
0.5
1.0
1.5
2.0
2.5
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.0014, qval: 0.061, logLR: 8.3128
Effect size
1.5e−09
5.0e−10
−5.0e−10
1
256
512
768
1024
HMT, pval: 0.0014, qval: 0.0496, logLR: 8.582
Effect size
1.5e−09
5.0e−10
−5.0e−10
1
256
512
768
1024


WaveQTL strongest SNP − Chr: 22, Site: 131, SNP: chr22.18312267
Normalised count
Genotype value
0
1
2
0.0
0.5
1.0
1.5
2.0
2.5
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 0.0014, qval: 0.061, logLR: 8.3128
Effect size
1.5e−09
5.0e−10
−5.0e−10
1
256
512
768
1024
HMT, pval: 0.0014, qval: 0.0496, logLR: 8.582
Effect size
1.5e−09
5.0e−10
−5.0e−10
1
256
512
768
1024


HMT strongest SNP − Chr: 22, Site: 133, SNP: chr22.18310017
Genotype value
1
0
Normalised count
0.0
0.1
0.2
0.3
0.4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 6e−04, qval: 0.0357, logLR: 10.3431
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024
HMT, pval: 4e−04, qval: 0.0194, logLR: 10.6793
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024


WaveQTL strongest SNP − Chr: 22, Site: 133, SNP: chr22.18310017
Genotype value
1
0
Normalised count
0.0
0.1
0.2
0.3
0.4
0
128
256
384
512
640
768
896
1024
WaveQTL, pval: 6e−04, qval: 0.0357, logLR: 10.3431
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024
HMT, pval: 4e−04, qval: 0.0194, logLR: 10.6793
Effect size
−5.0e−10
5.0e−10
1.5e−09
1
256
512
768
1024