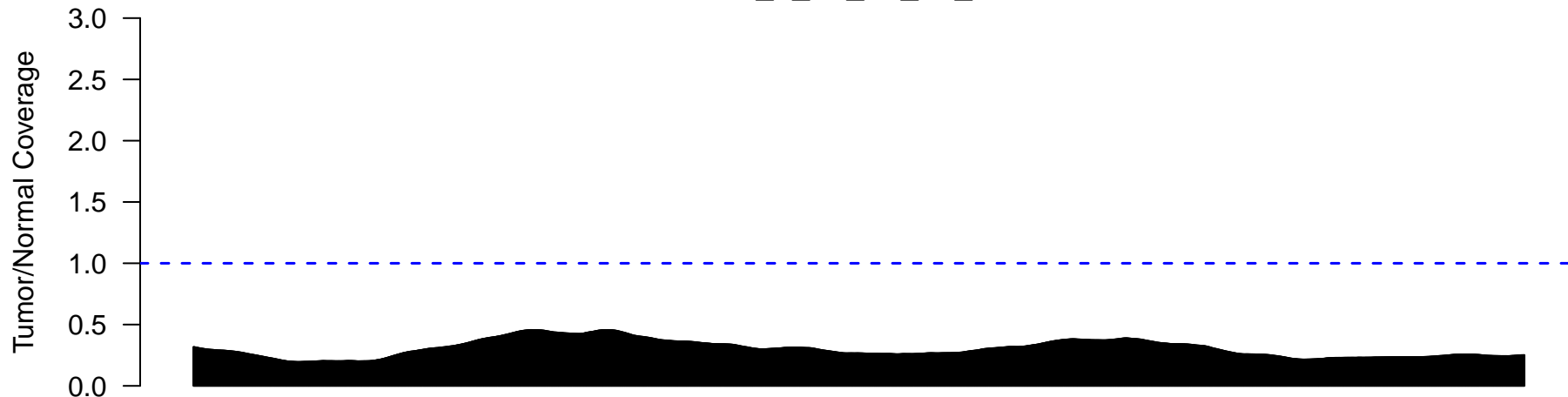
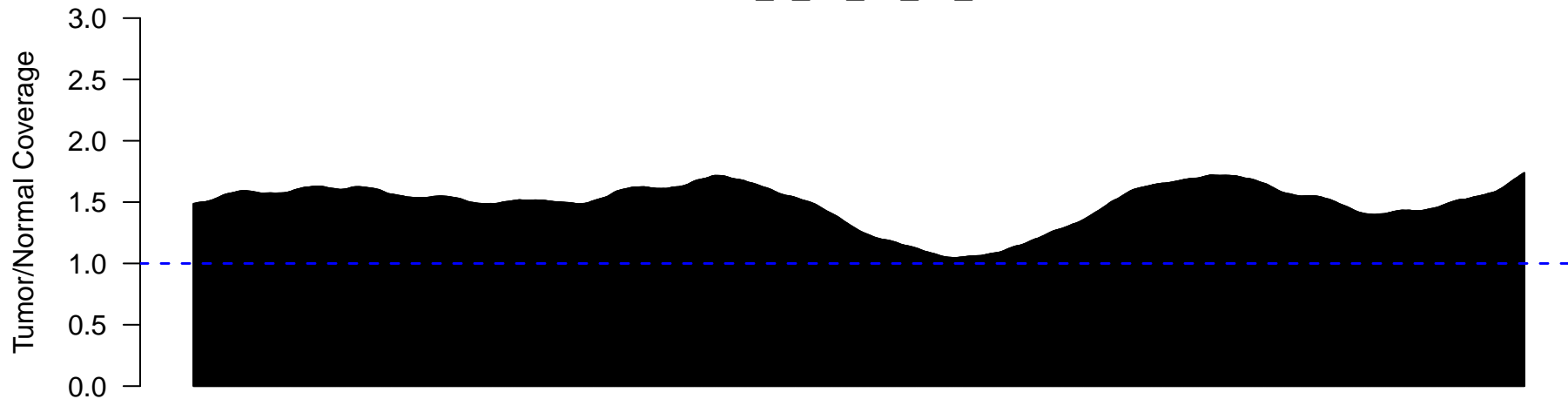


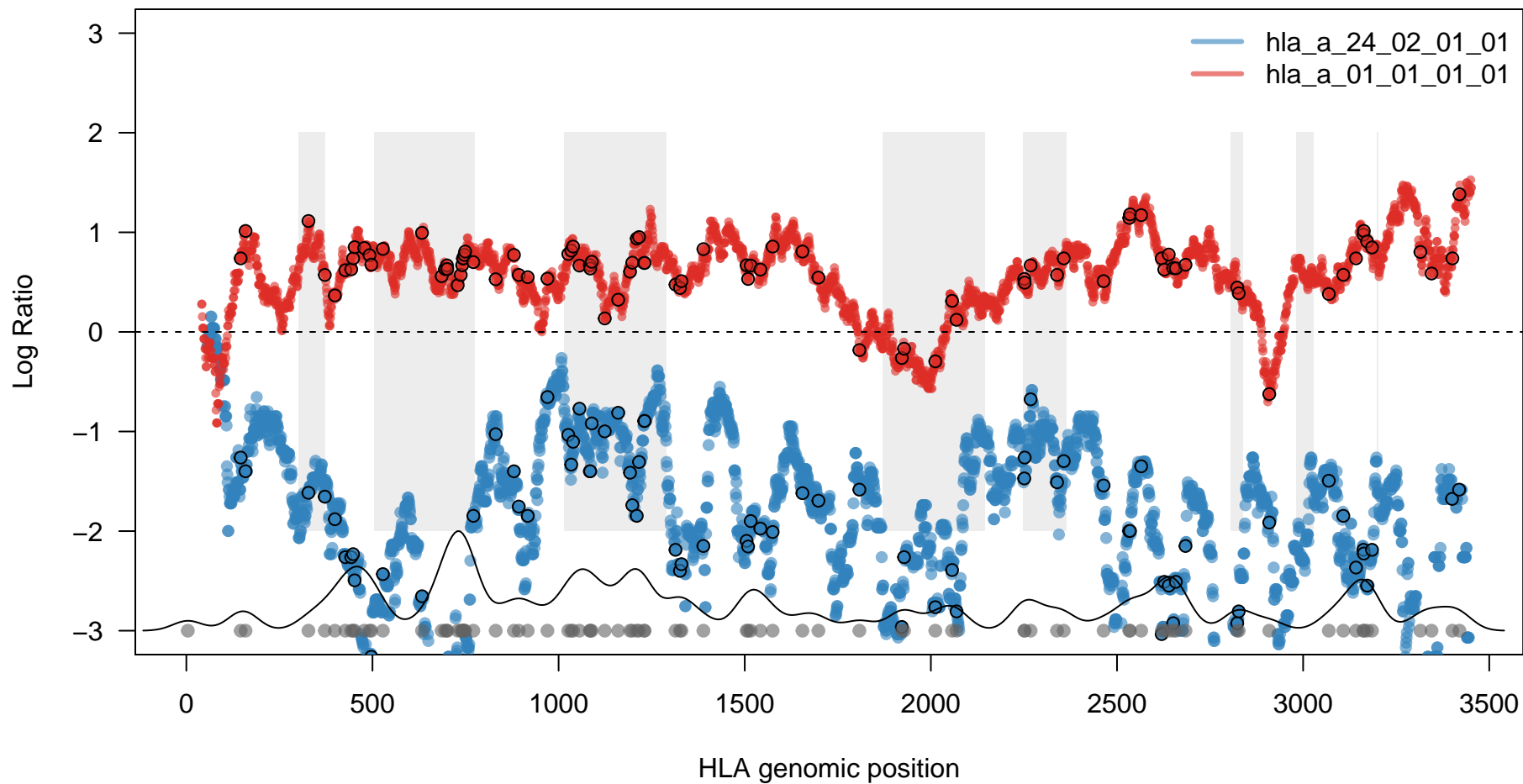
hla_a_24_02_01_01



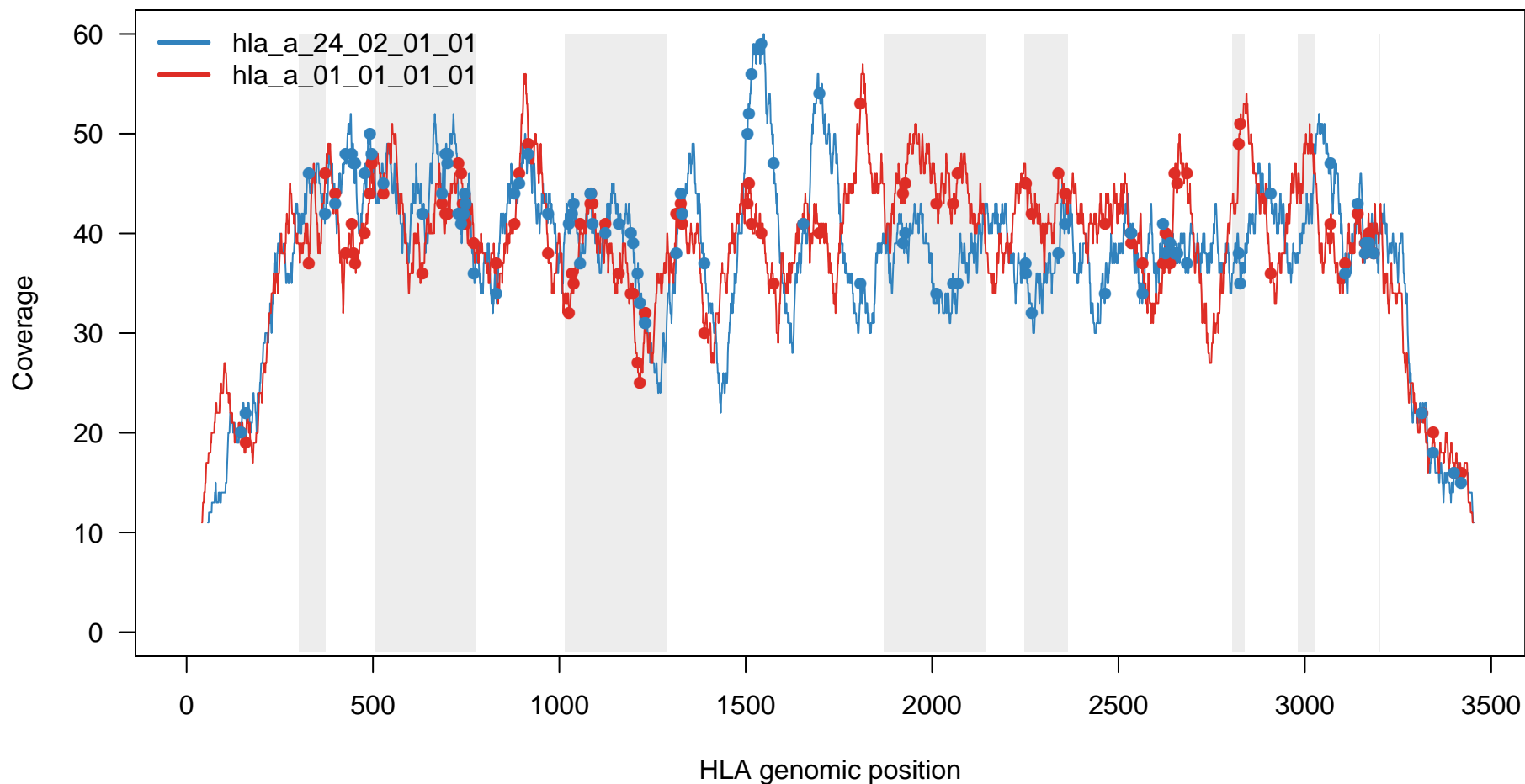
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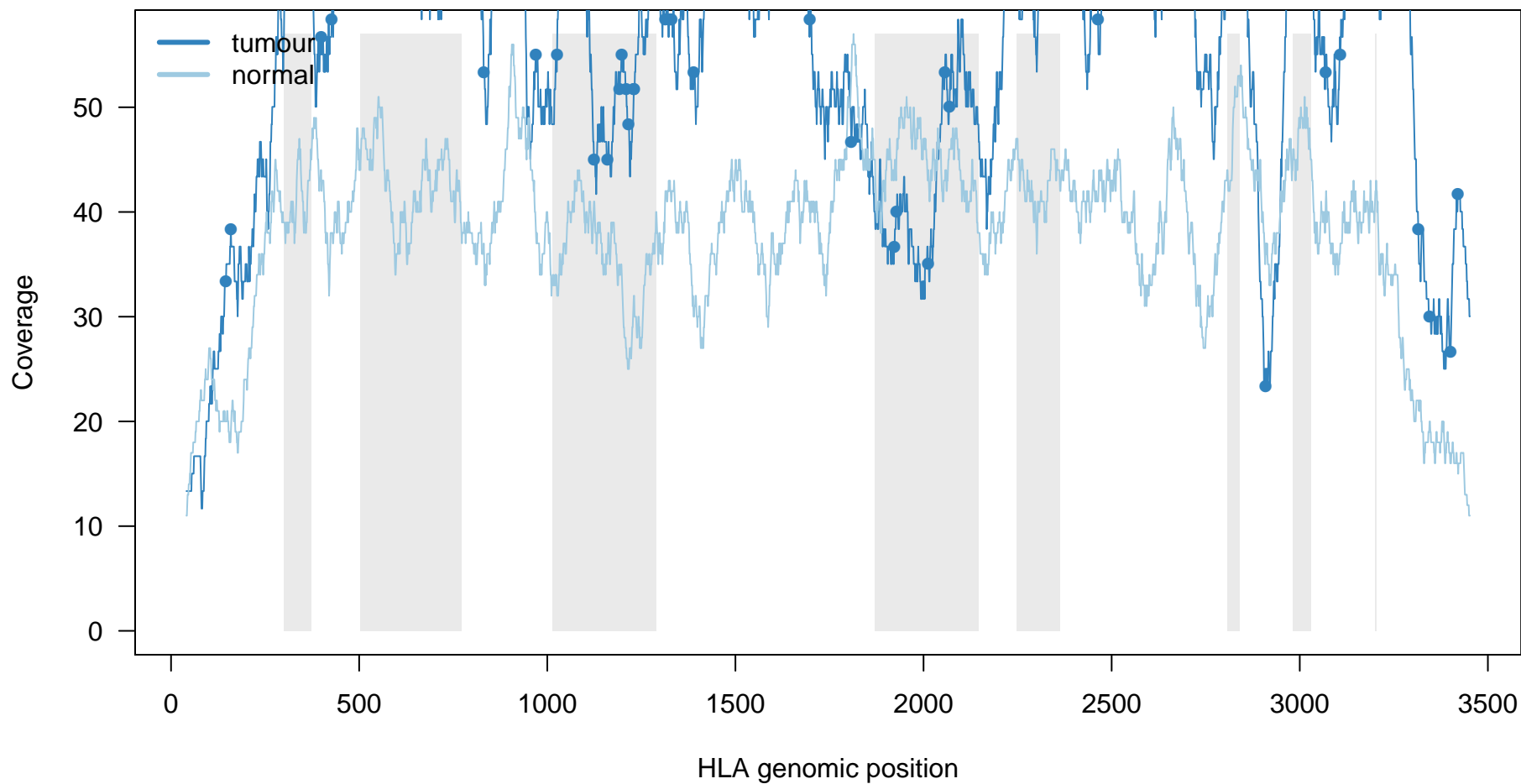
HLA raw balance example_tumor_sorted



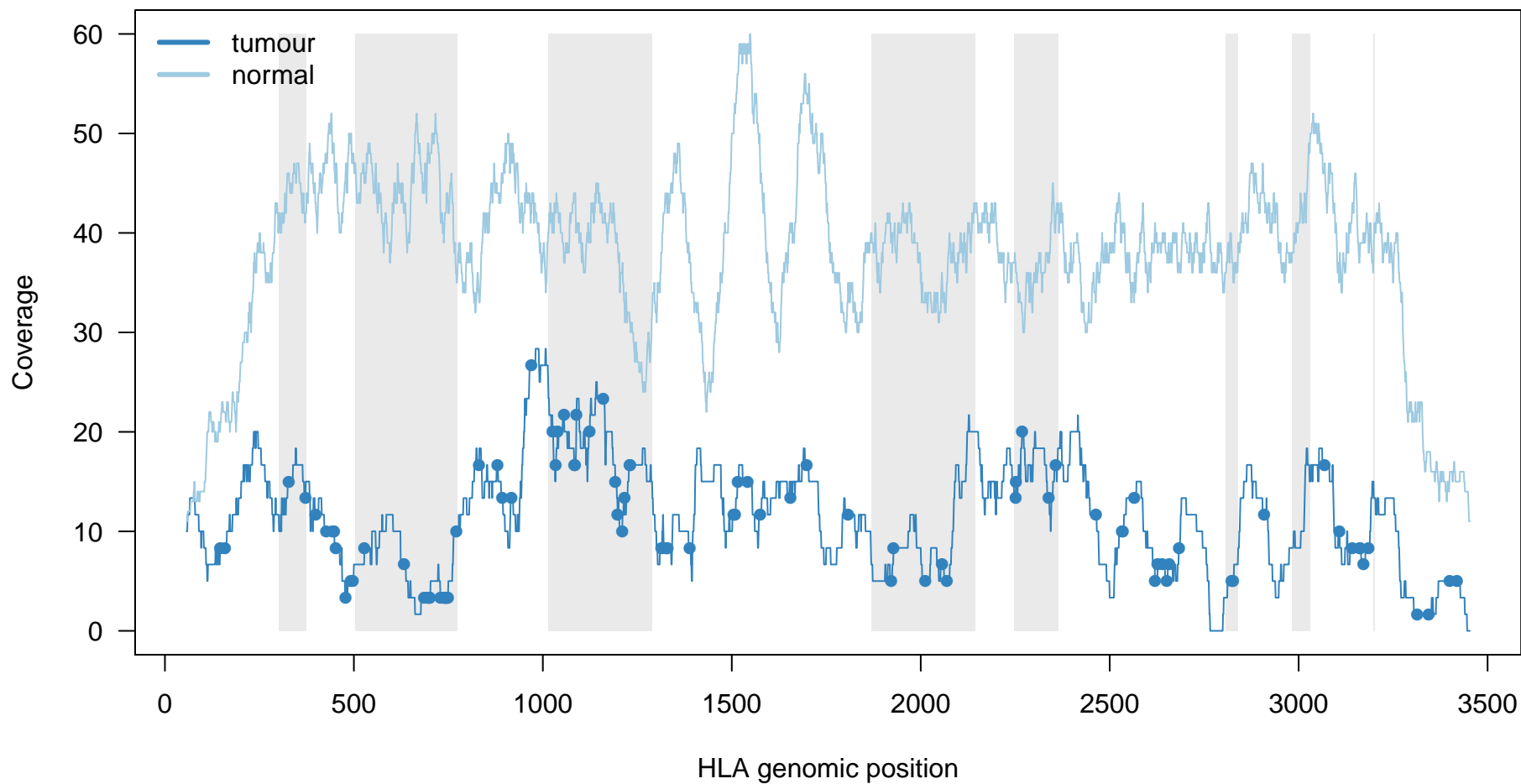
HLA normal coverage example_tumor_sorted



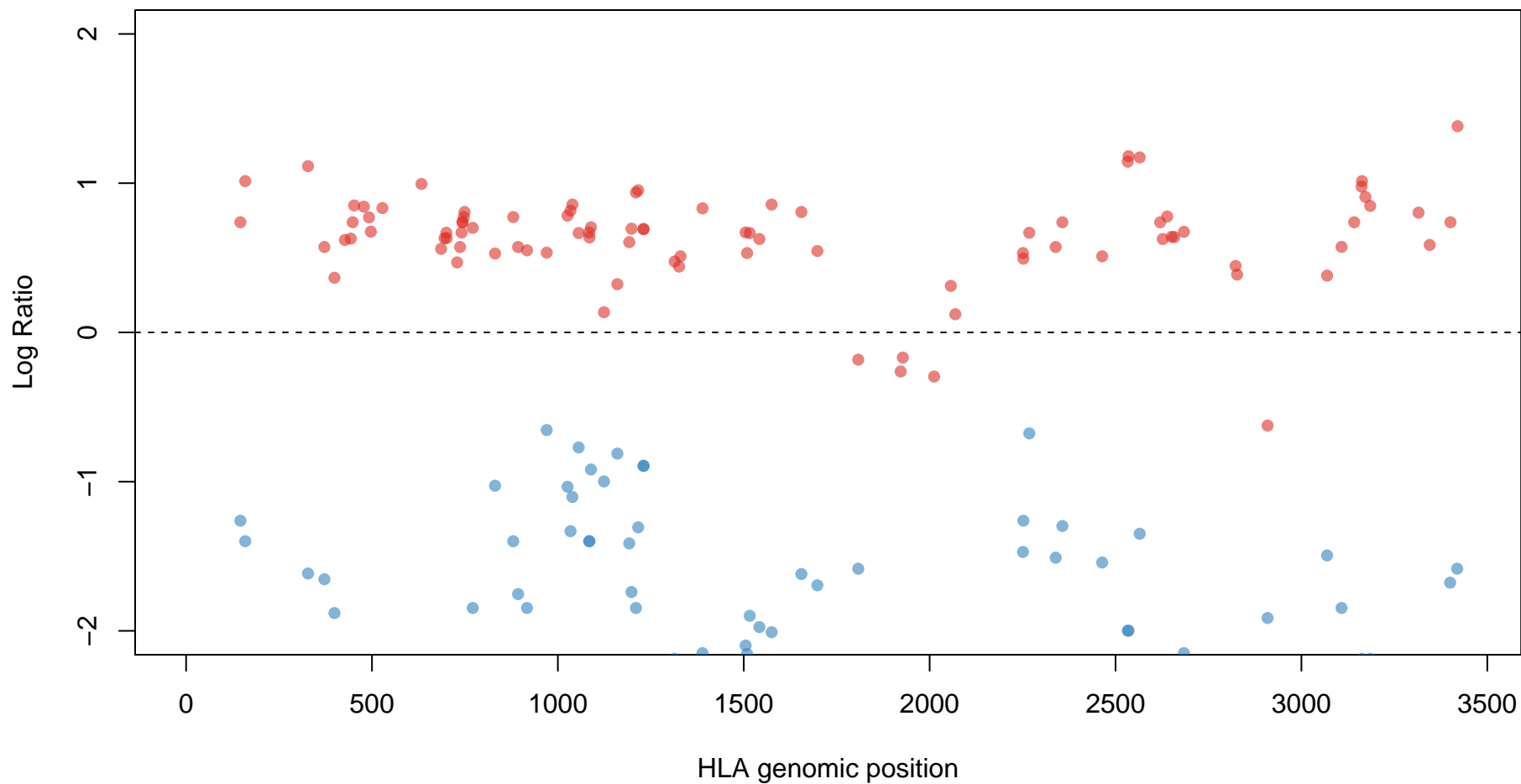
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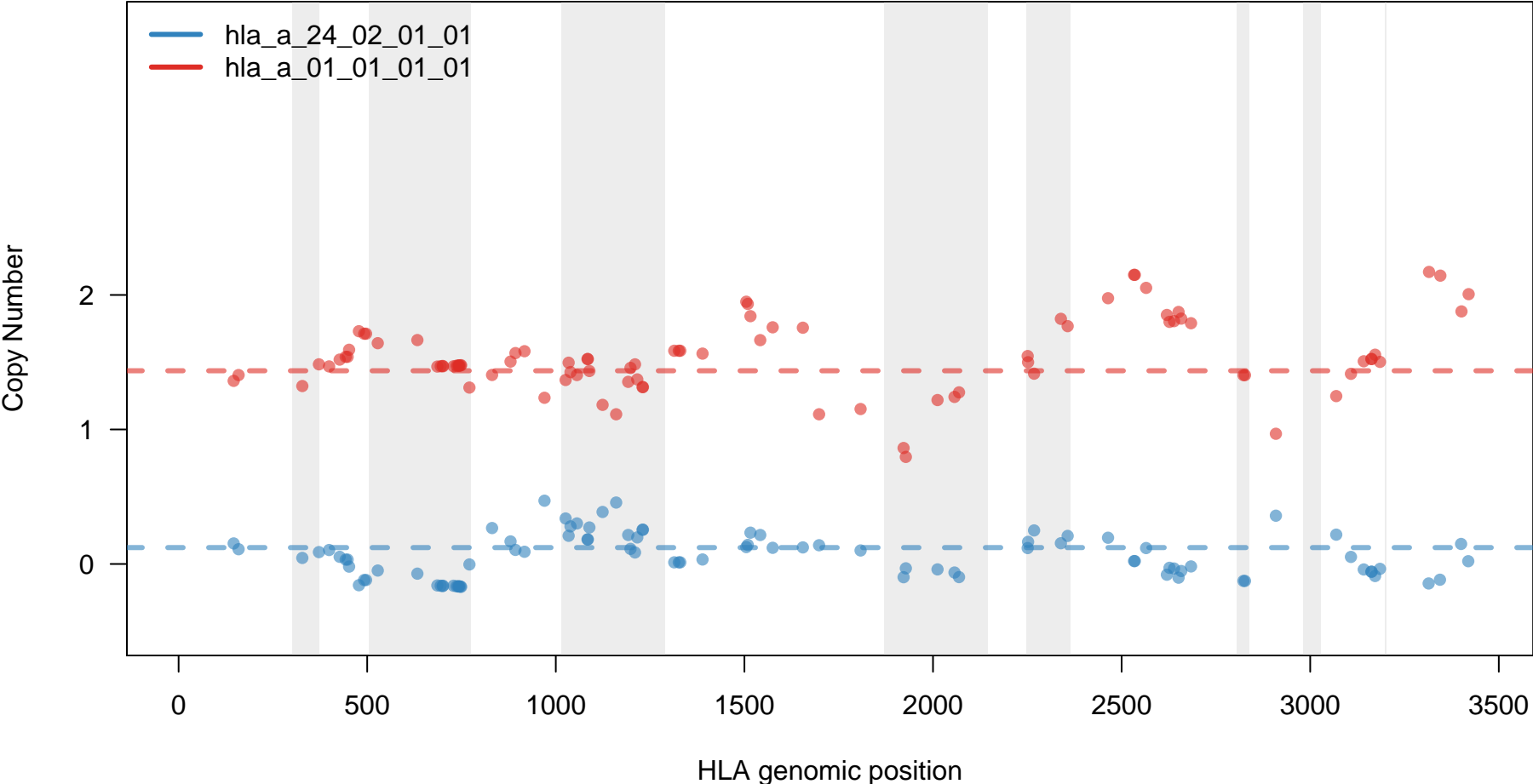
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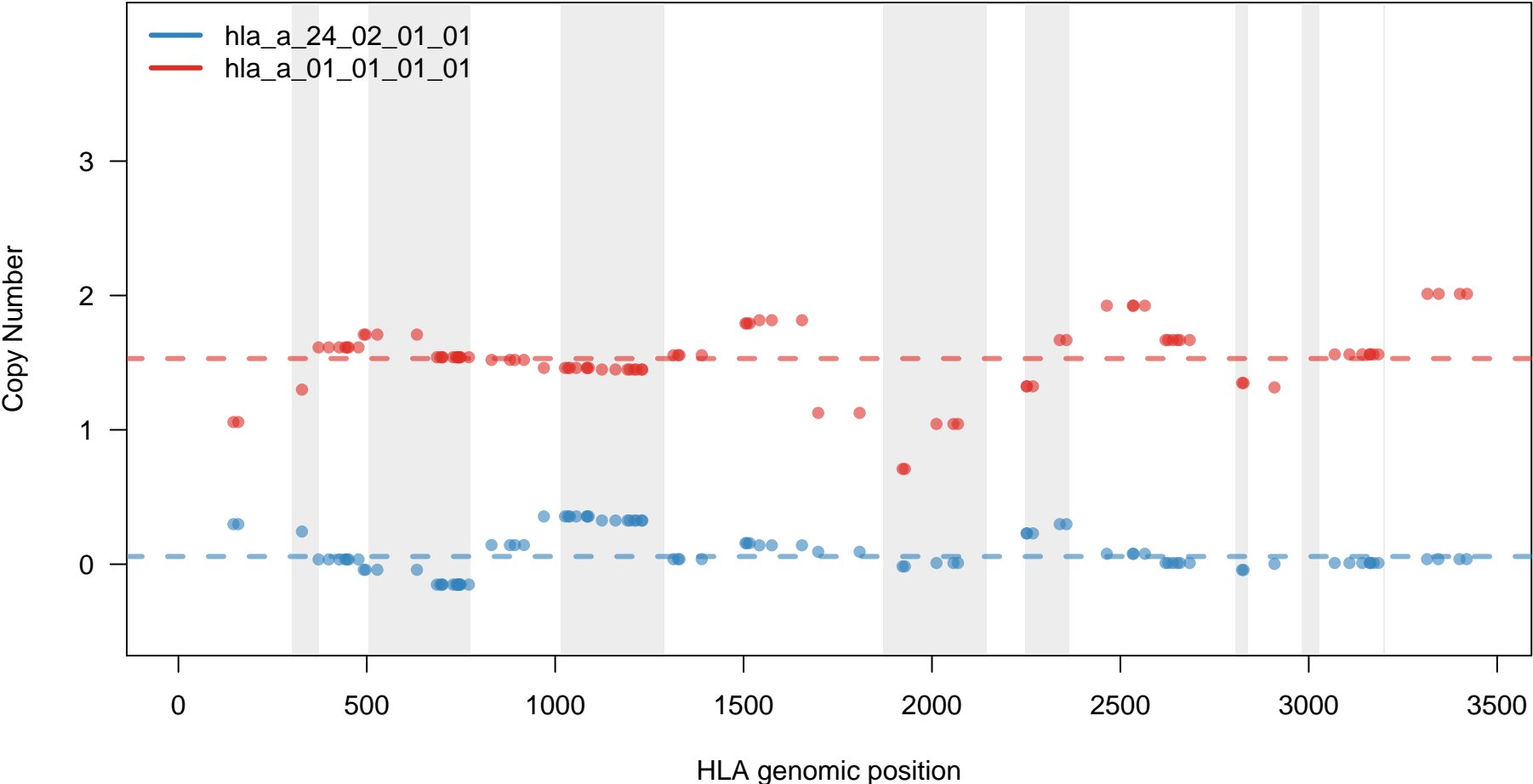
HLA raw balance example_tumor_sorted



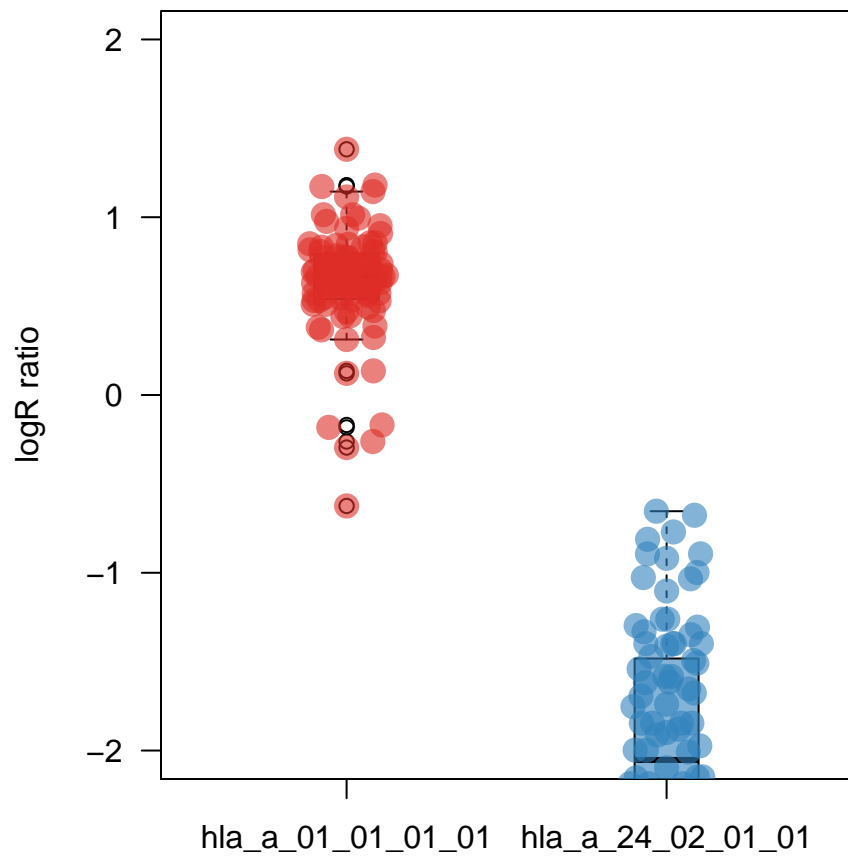
HLA copyNum balance example_tumor_sorted



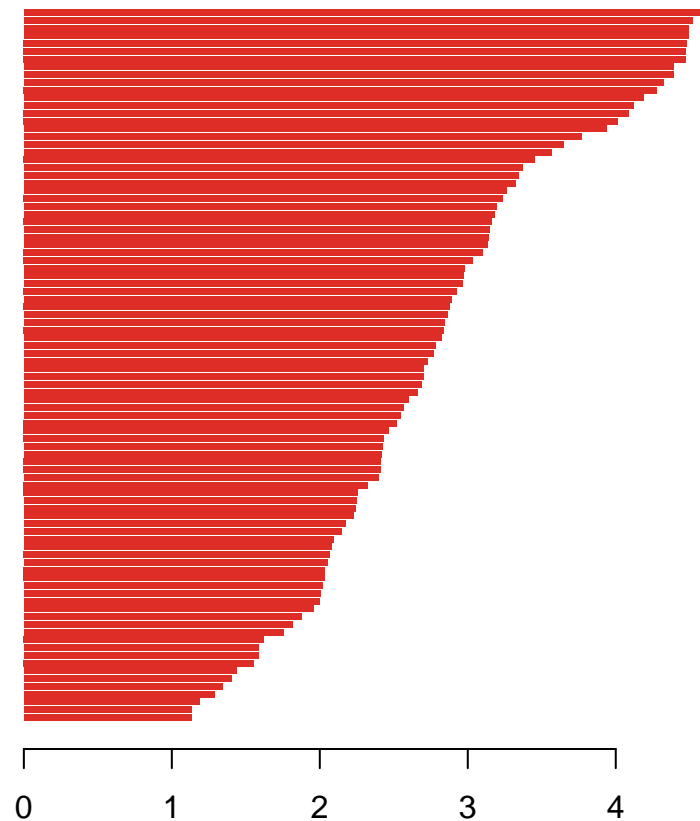
HLA copyNum balance example_tumor_sorted



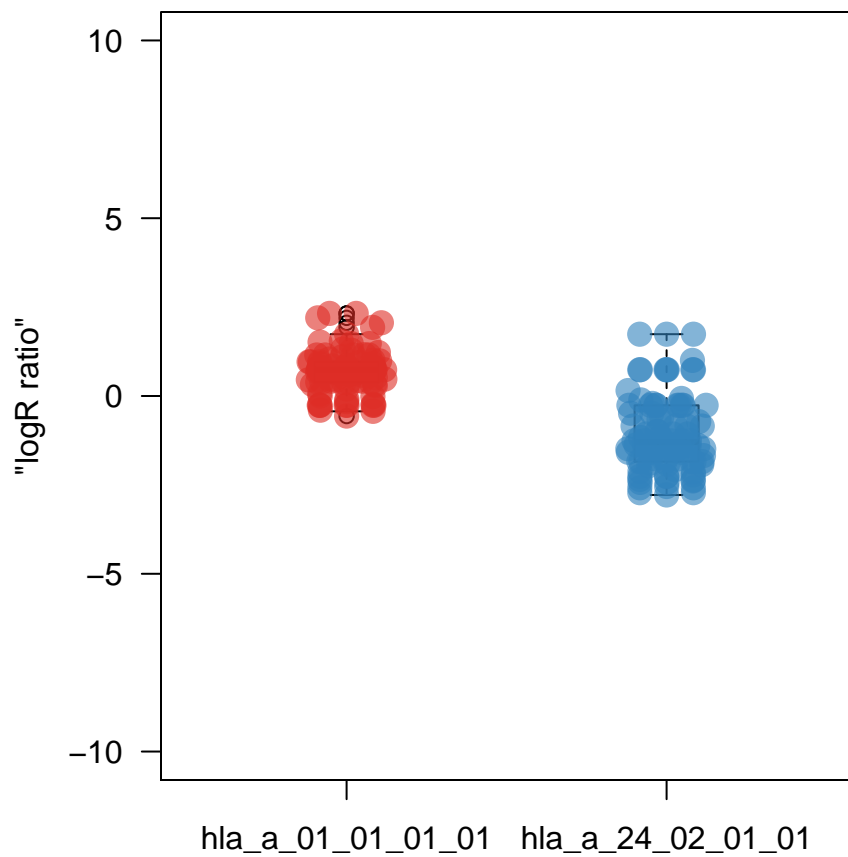
Paired t.test p.val= $8.87\text{e-}48$



Paired Differences in logR



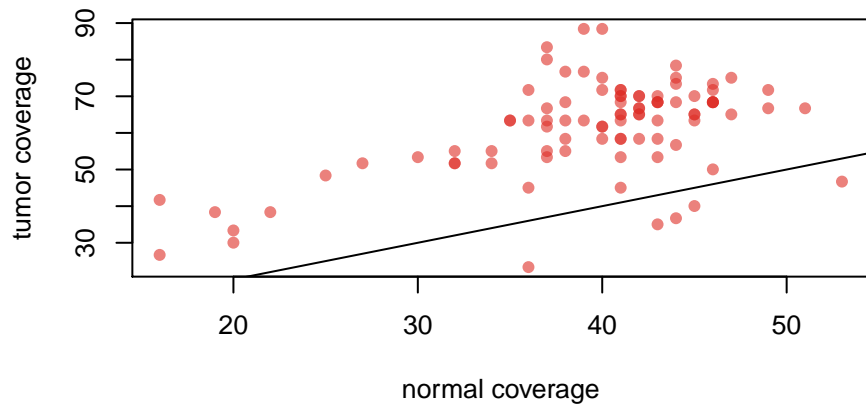
Paired t.test p.val= $8.75e-26$



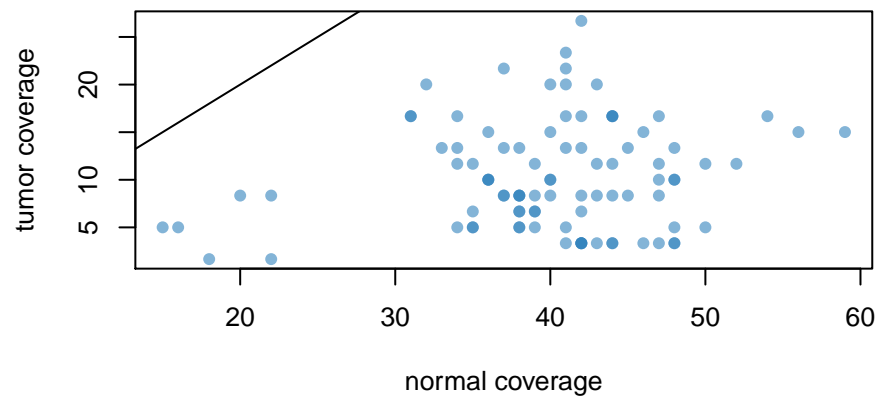
Paired Differences in logR



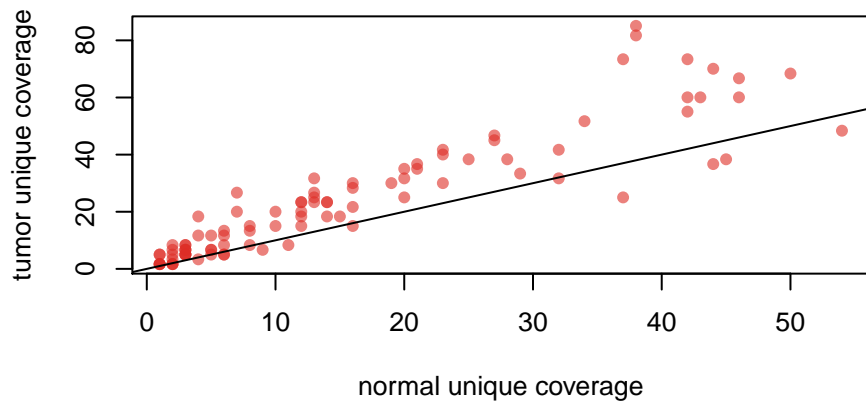
hla_a_01_01_01_01



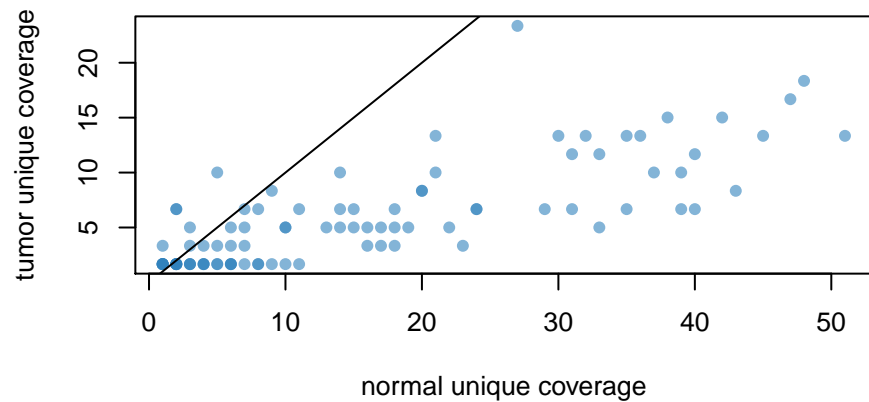
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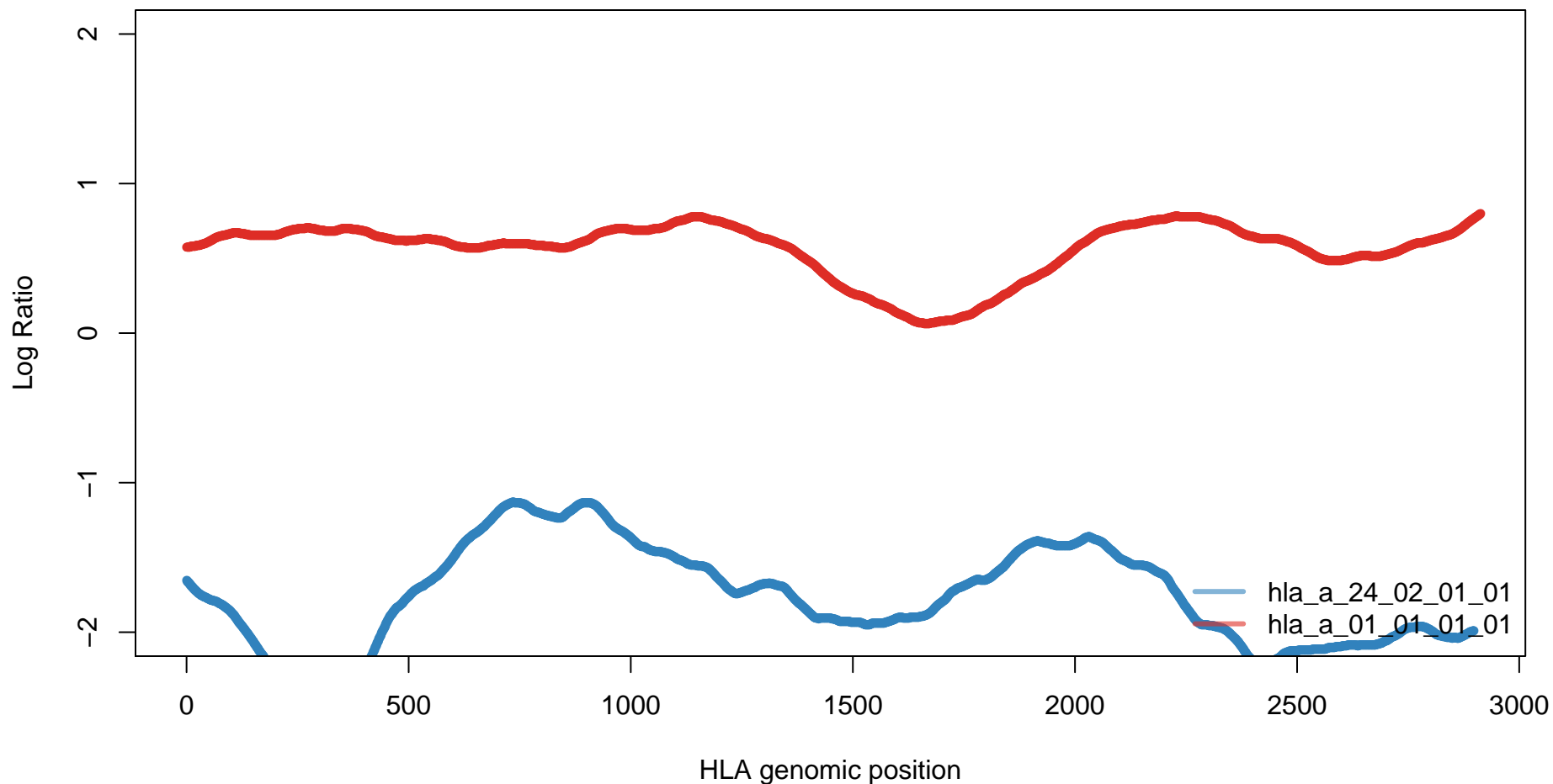
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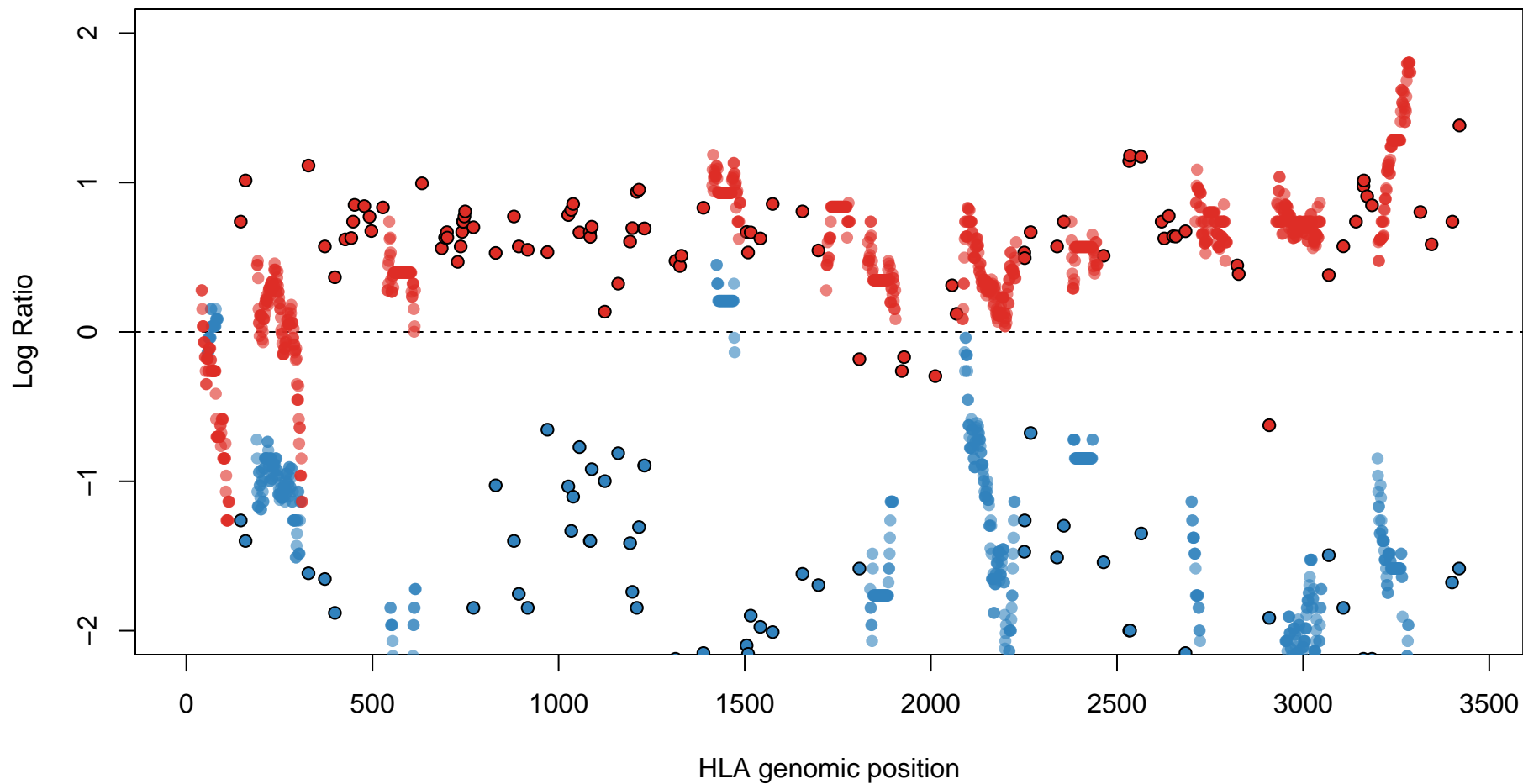
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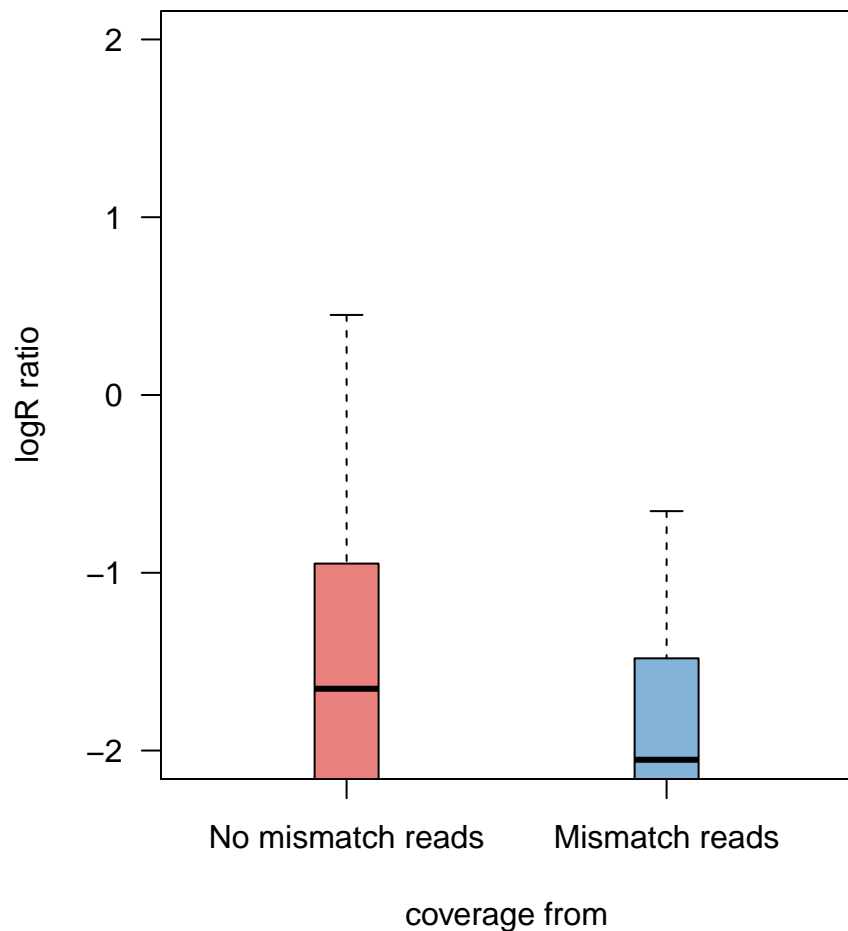
HLA rolling mean balance example_tumor_sorted



HLA raw balance example_tumor_sorted



hla_a_24_02_01_01
t.test p.val= 0.149



hla_a_01_01_01_01
t.test p.val= 0.000121

