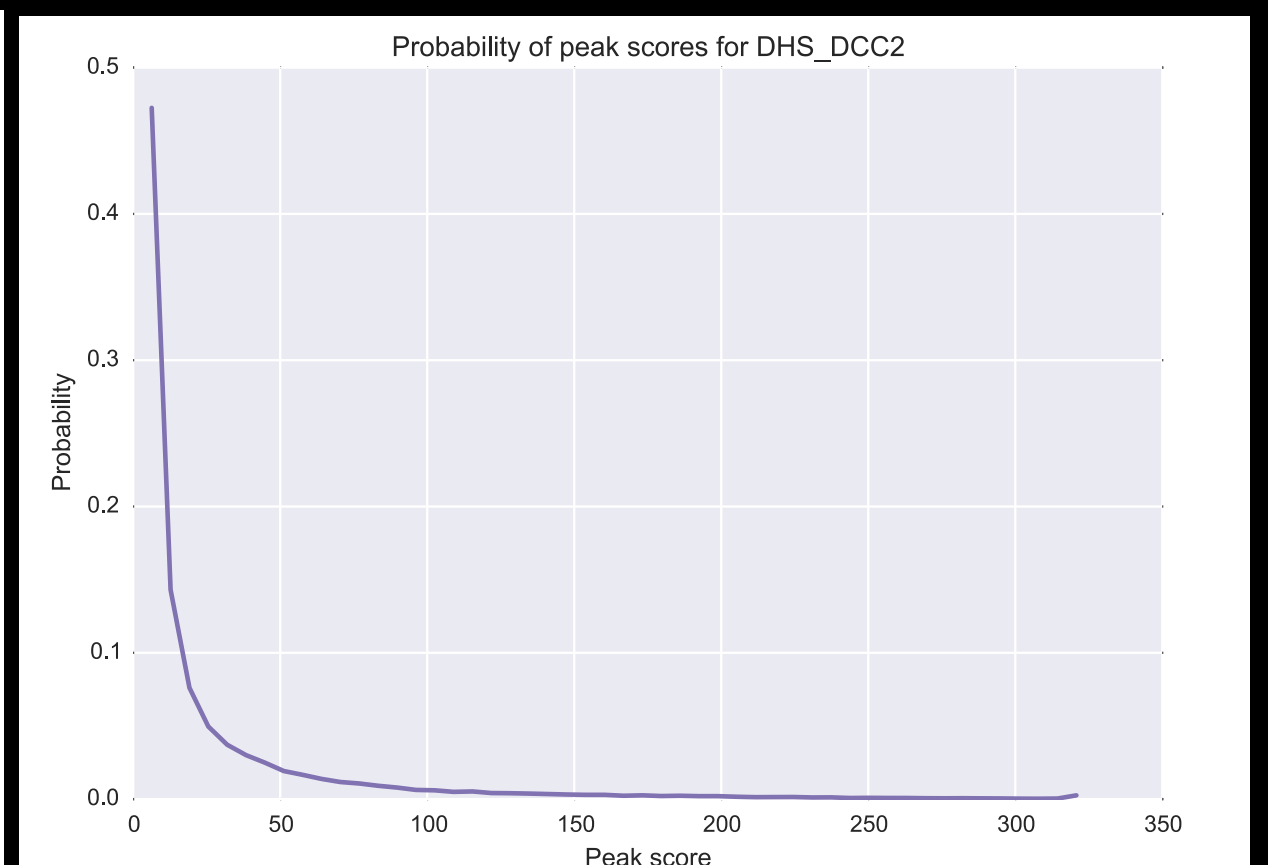
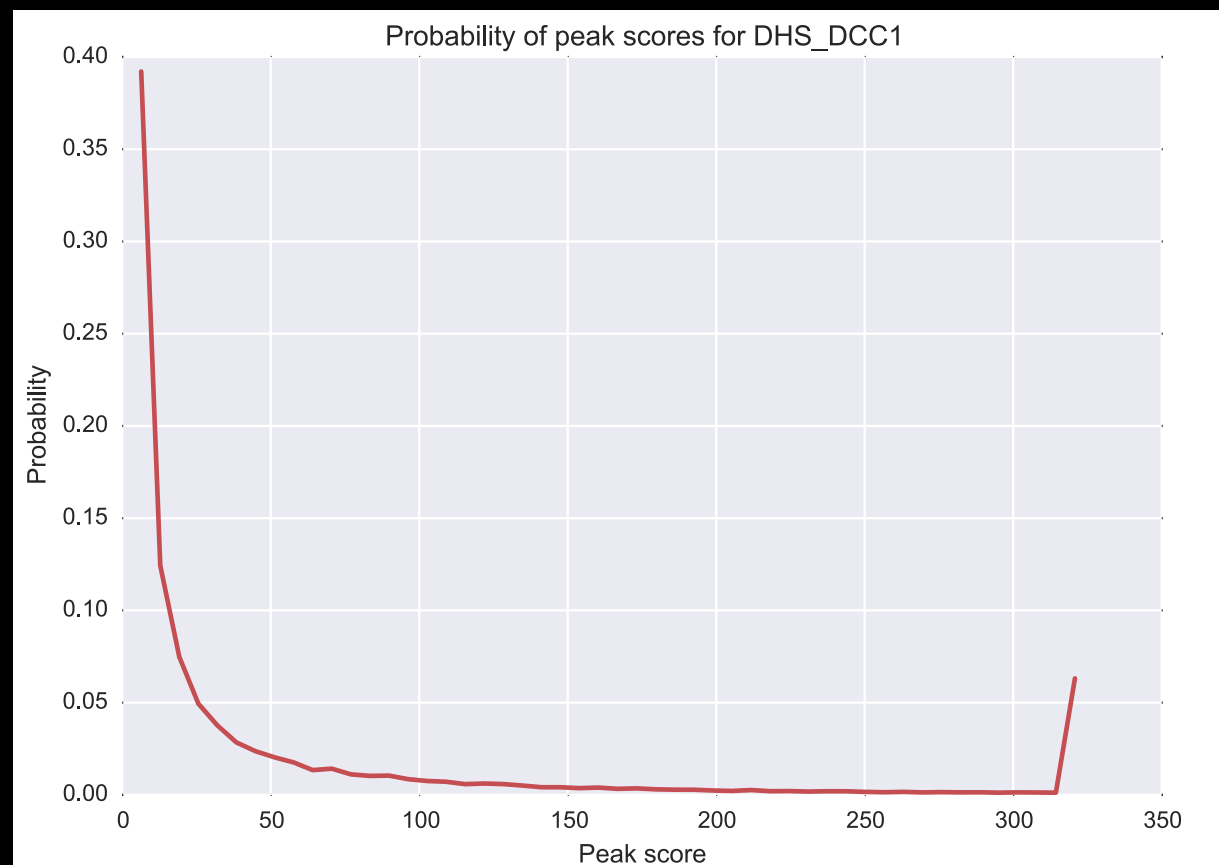
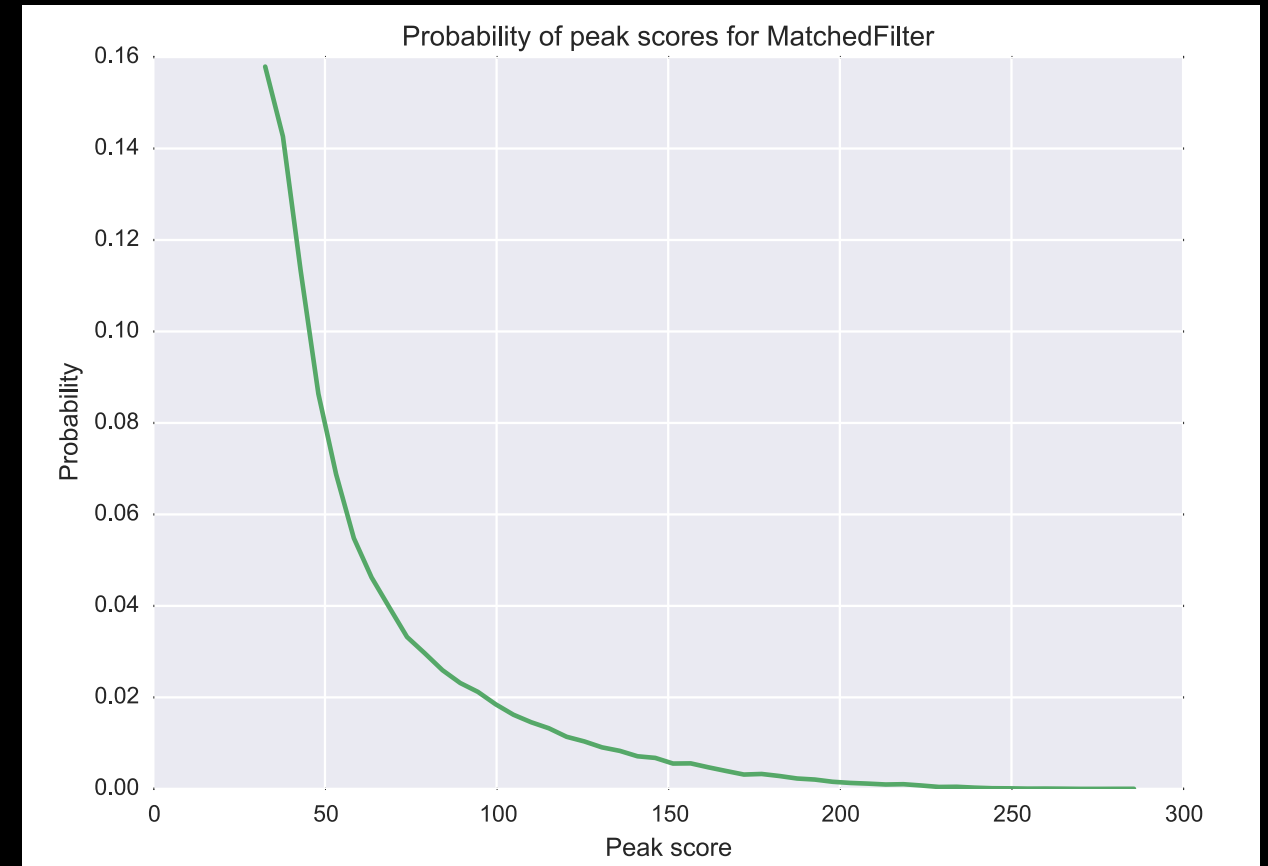
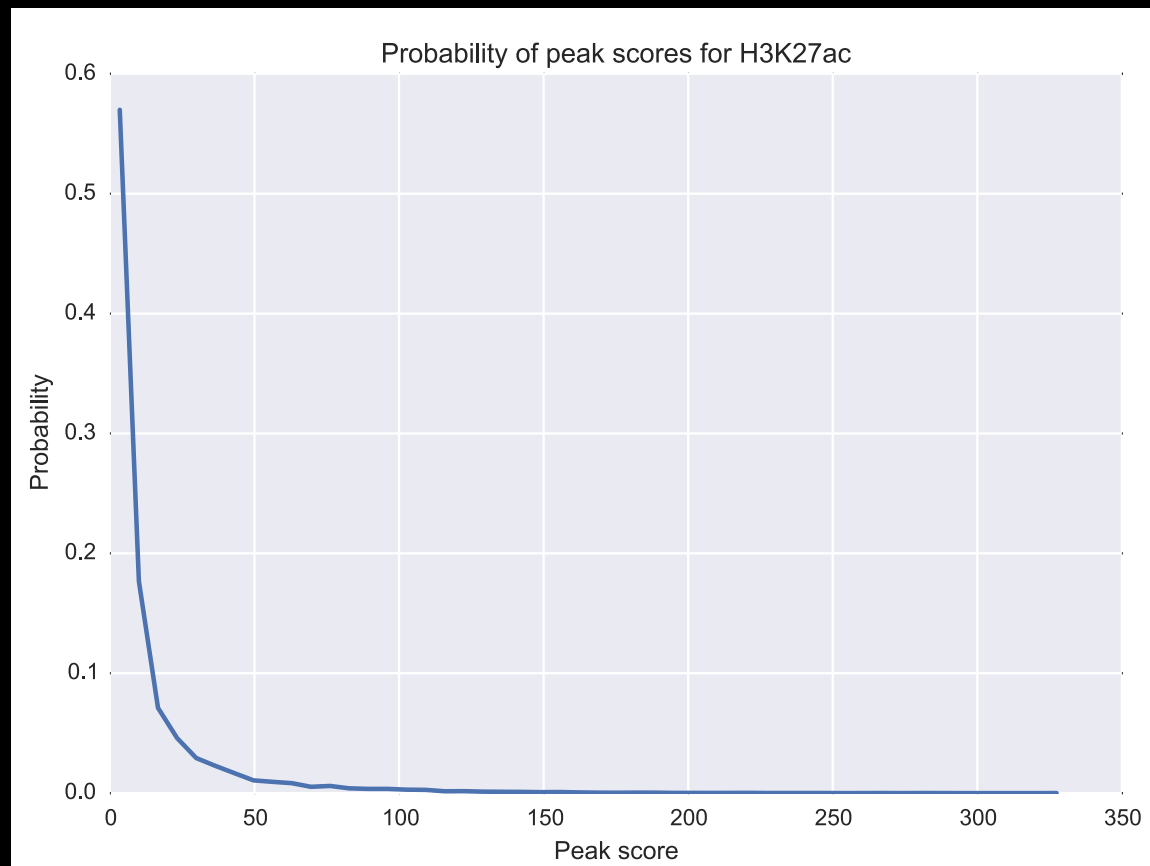


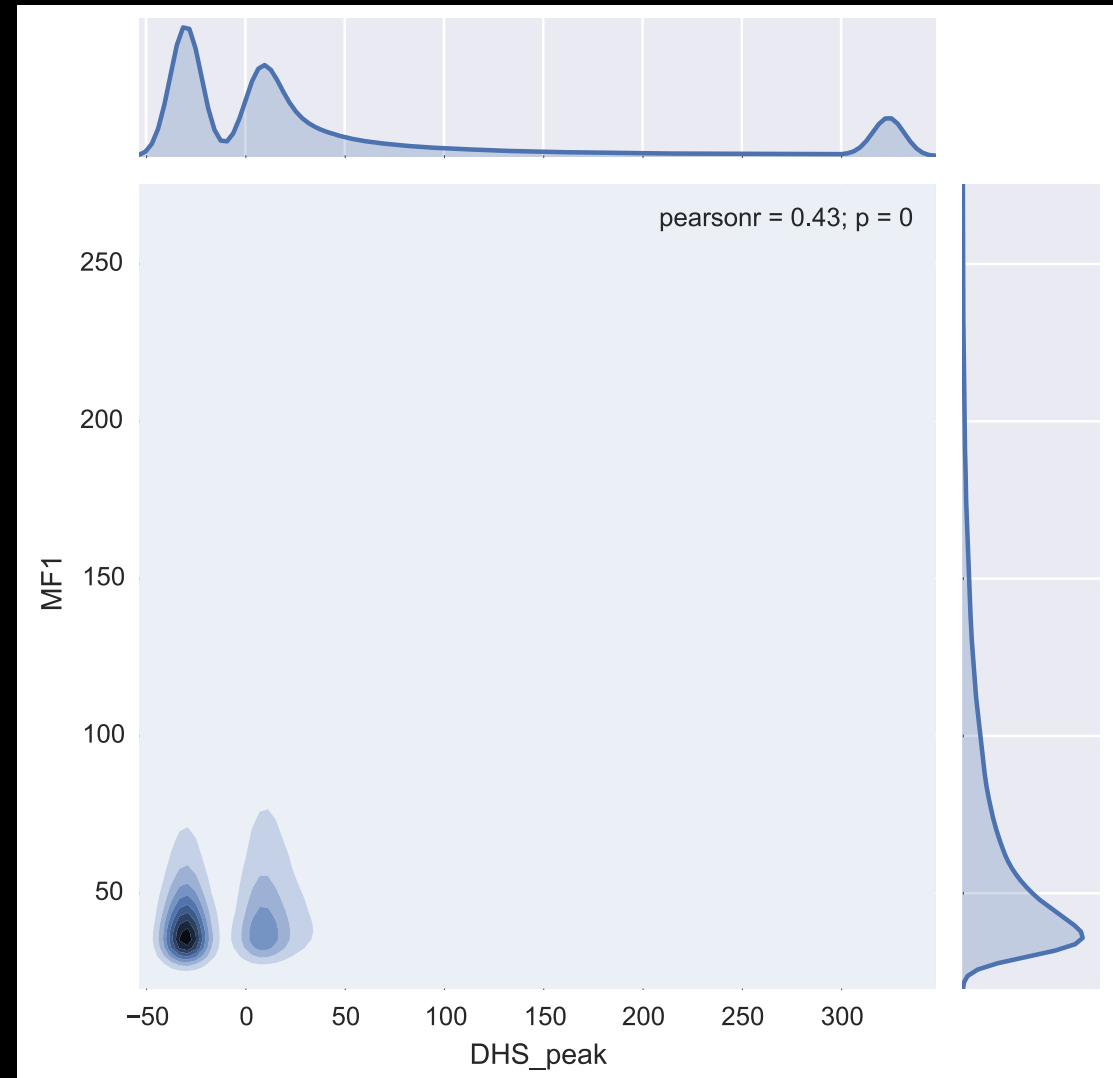
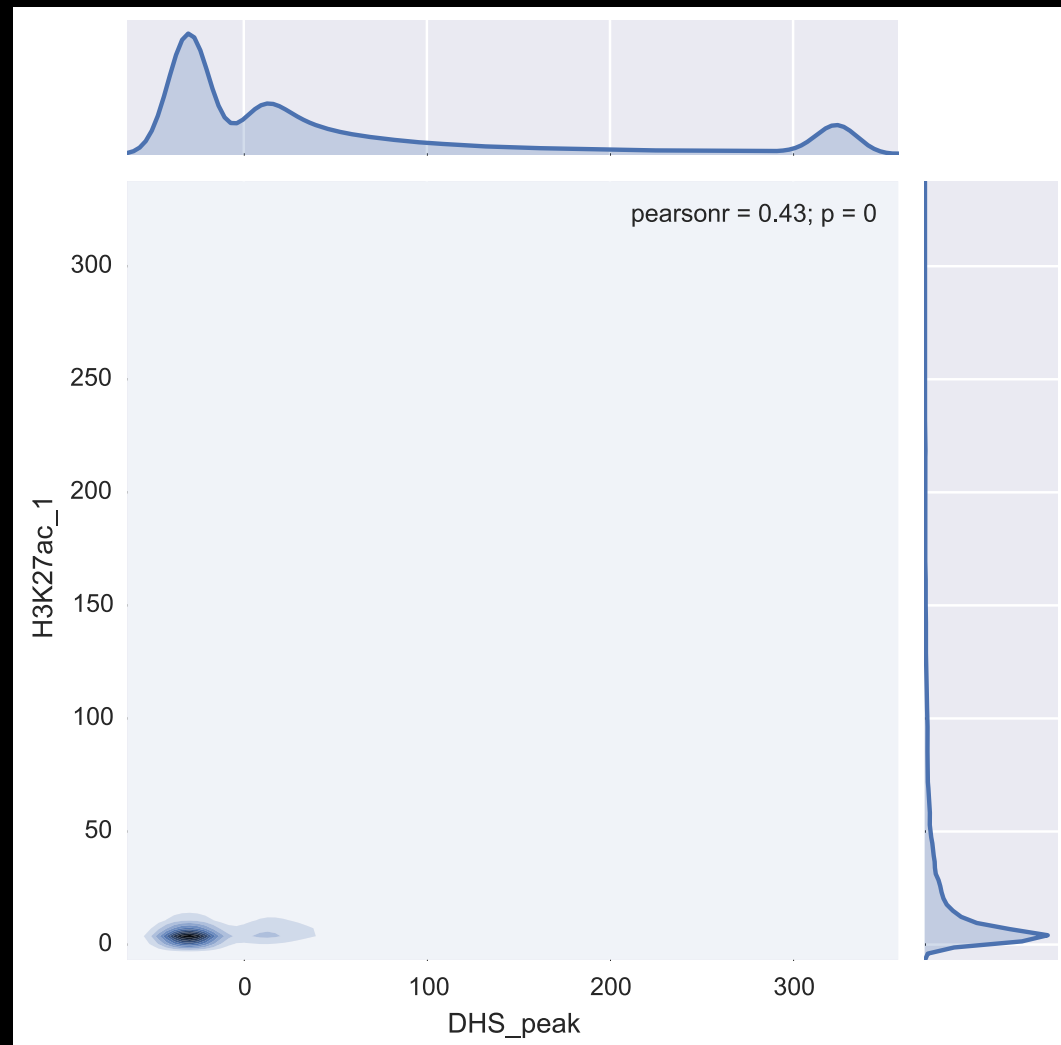
Enhancer Predictions

P2-TECH

Probability of peak scores

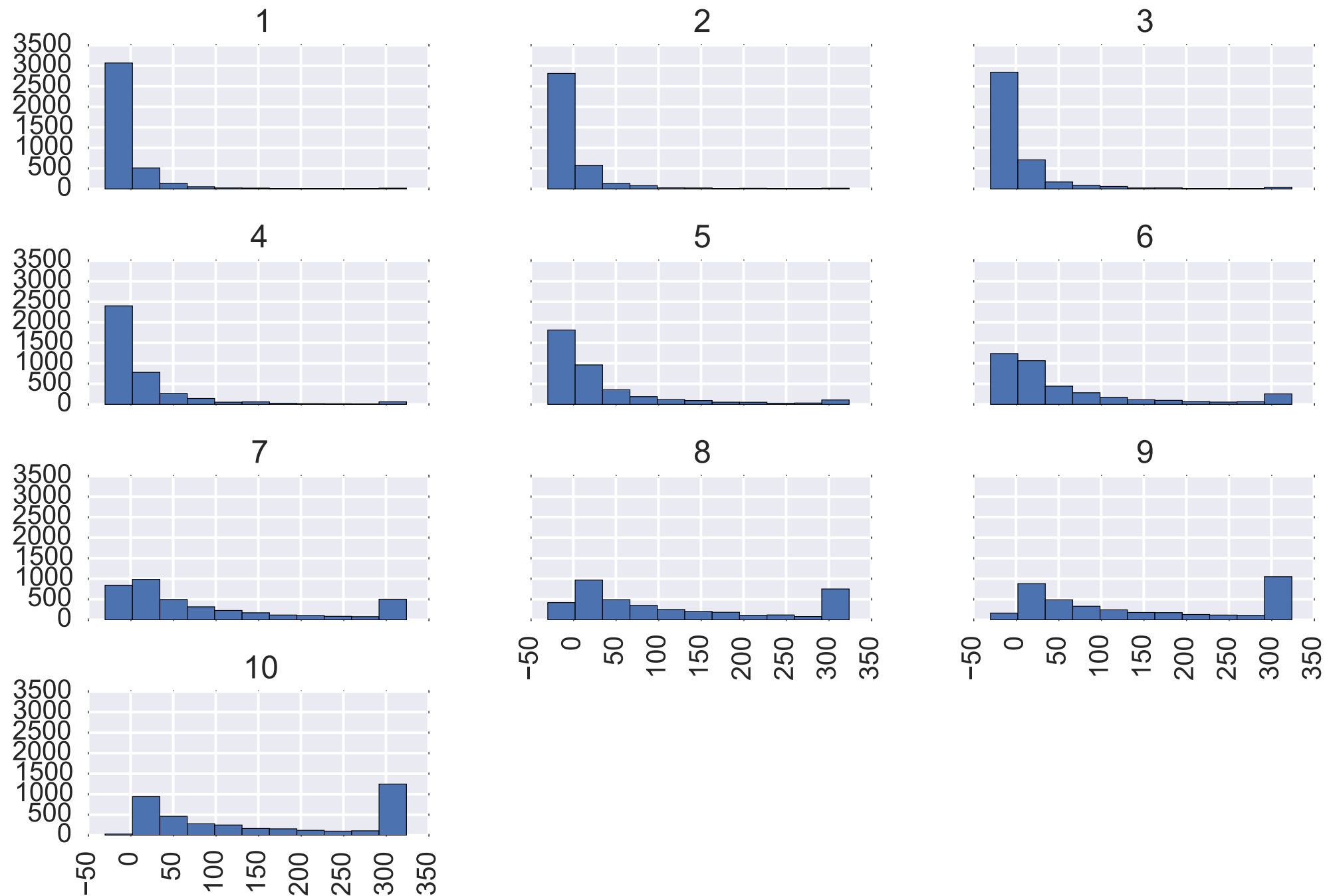


Probability density of peak scores (when they intersect and they do not)

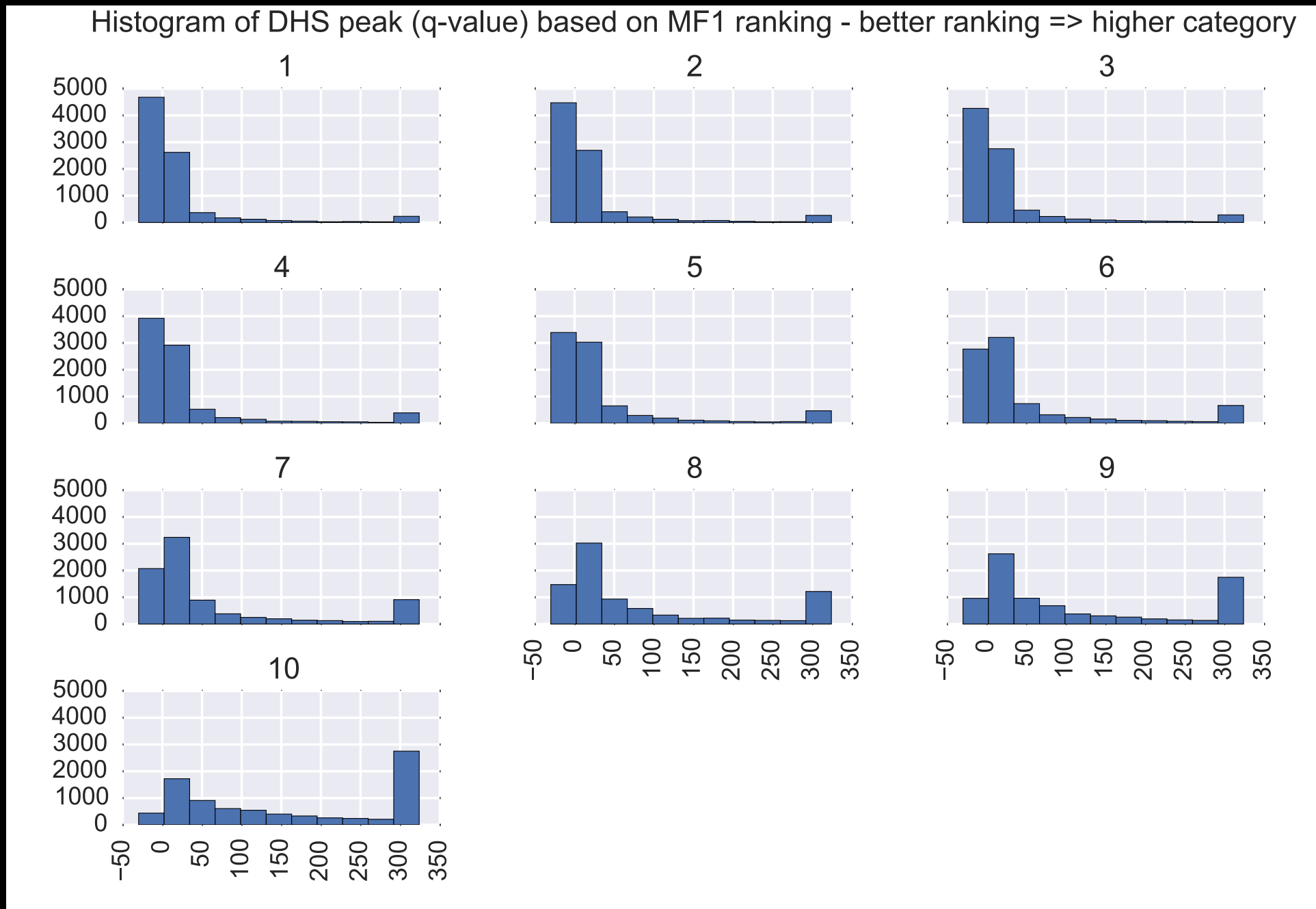


Higher scoring histone peaks tend to be associated with higher scoring DHS peaks (but the relationship is not one-to-one)

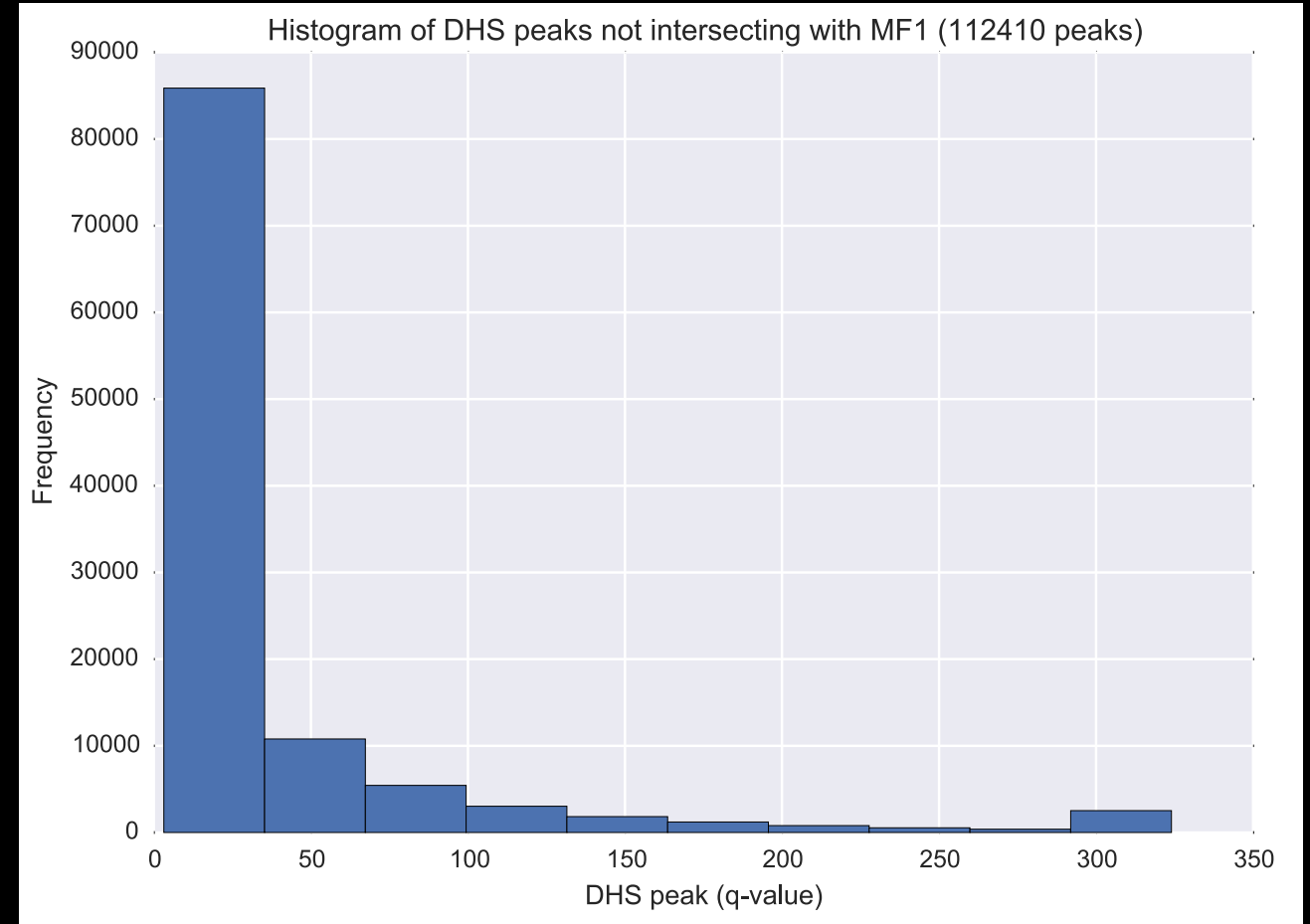
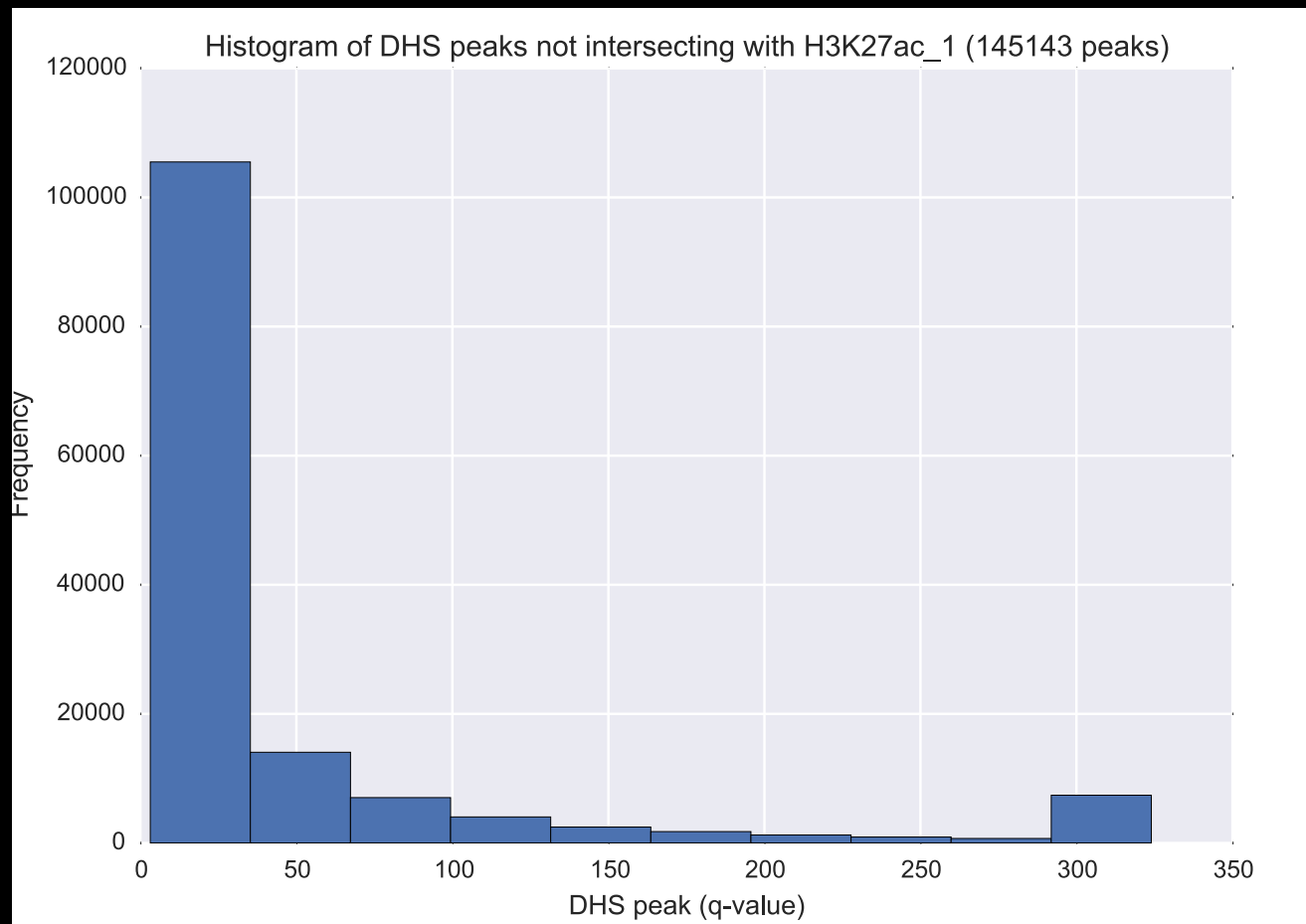
Histogram of DHS peak (q-value) based on H3K27ac_1 ranking - better ranking => higher category



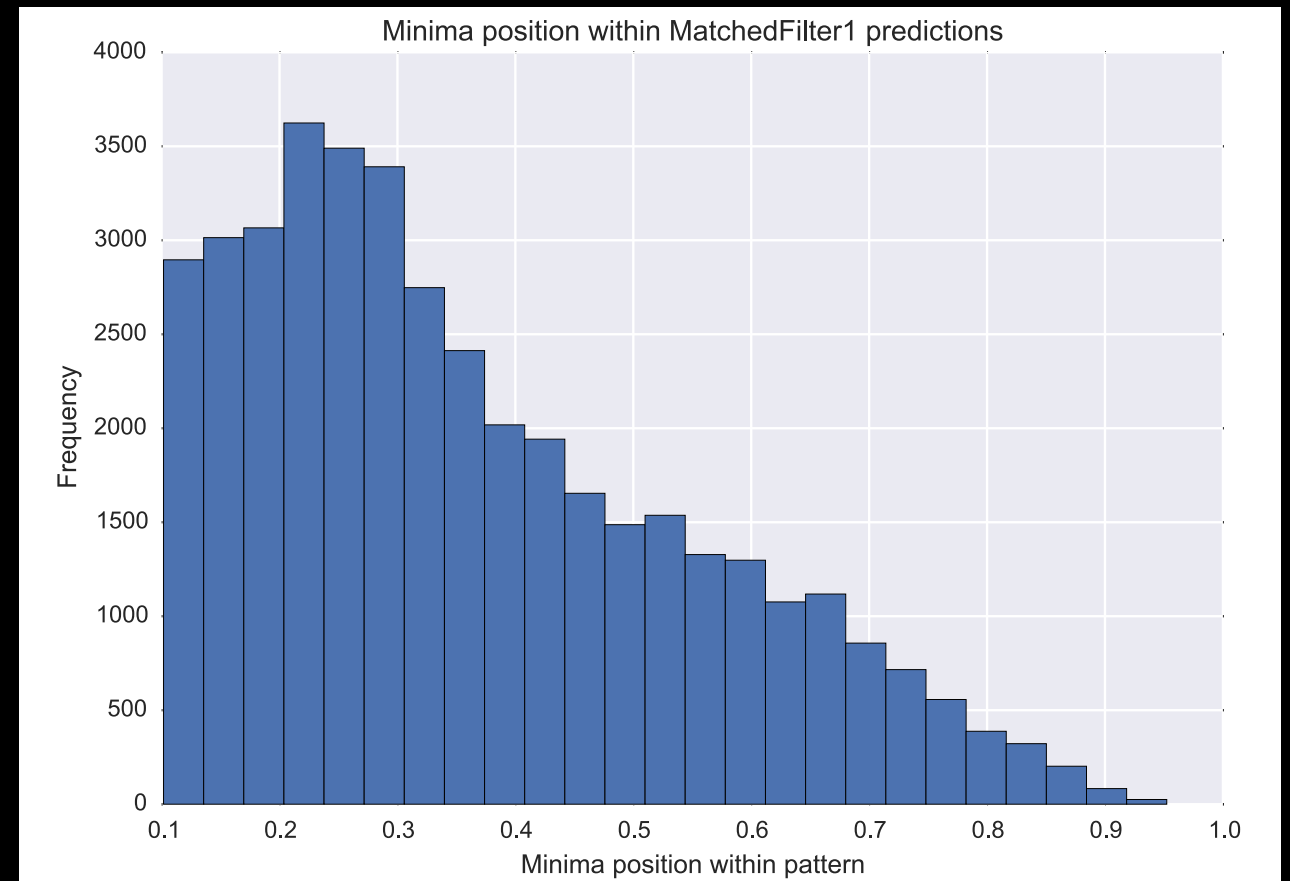
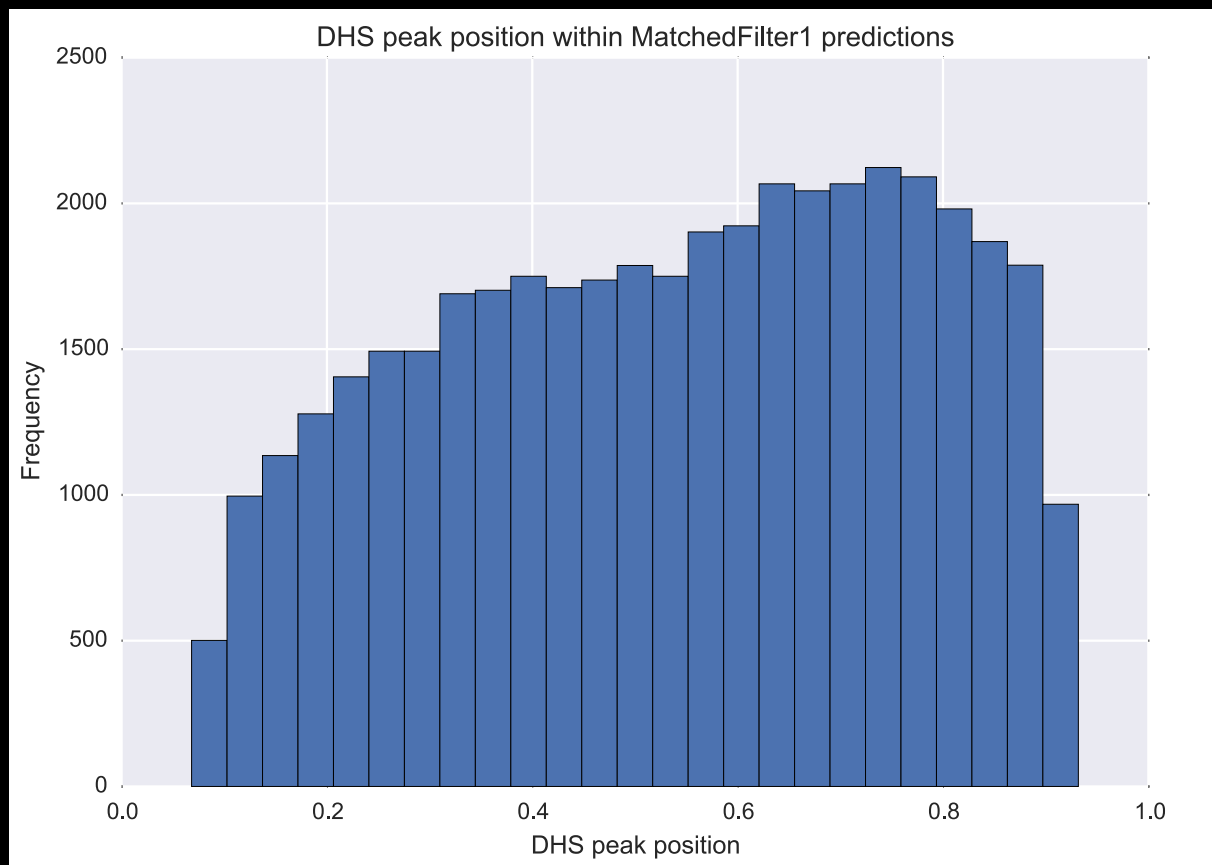
Similar trend with MF predictions (but 3 times more predictions)



A lot of DHS peaks do not intersect with H3K27ac peaks
(nearly double intersect with MF predictions but still a lot of
DHS peaks out of MF predictions)



This is a slide with some trends but this is harder to be confident about - when looking at signal tracks

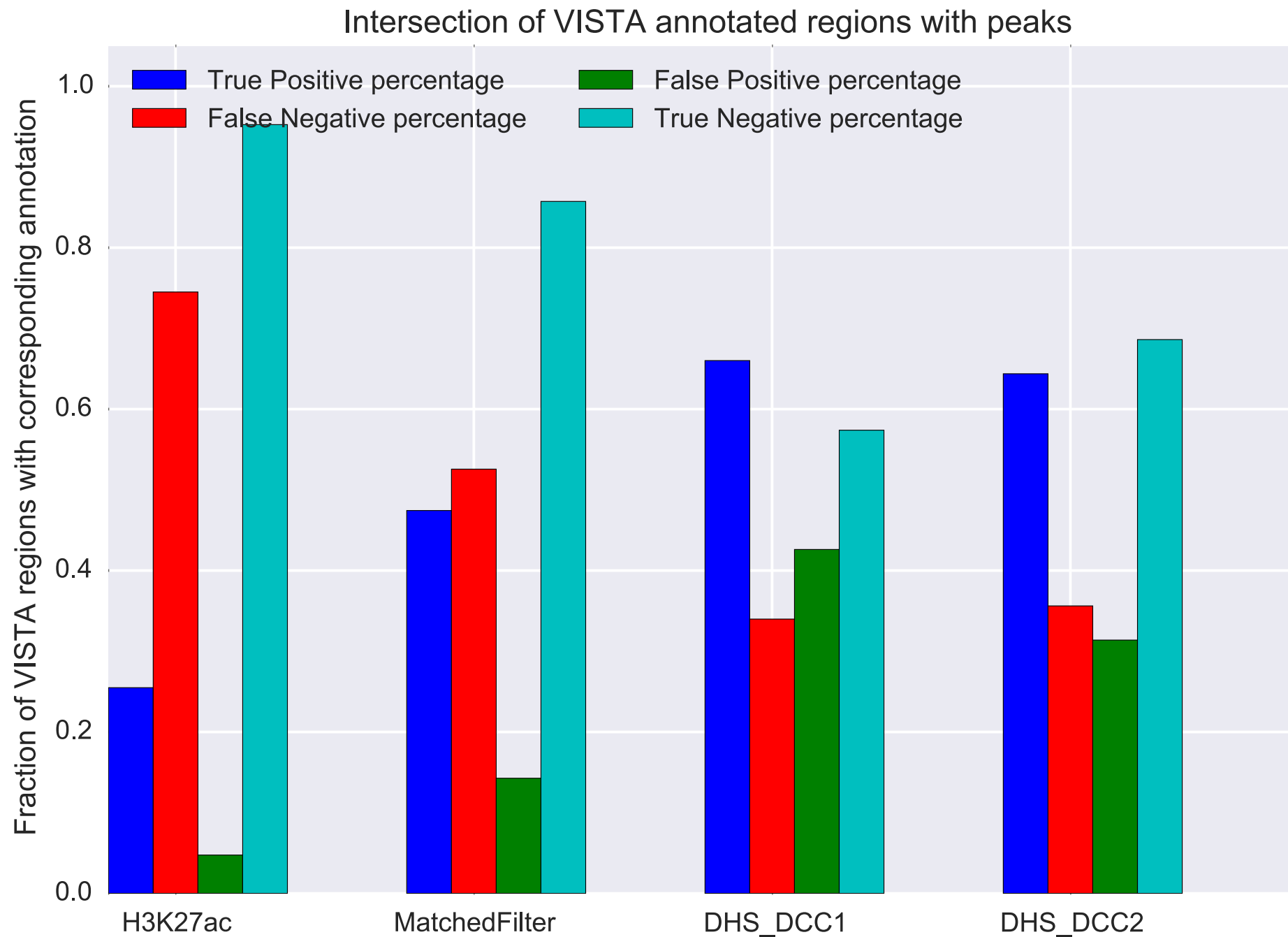


Hints towards creating a double matched filter over both signals simultaneously (but this will require time and we don't know how much we will gain in performance).

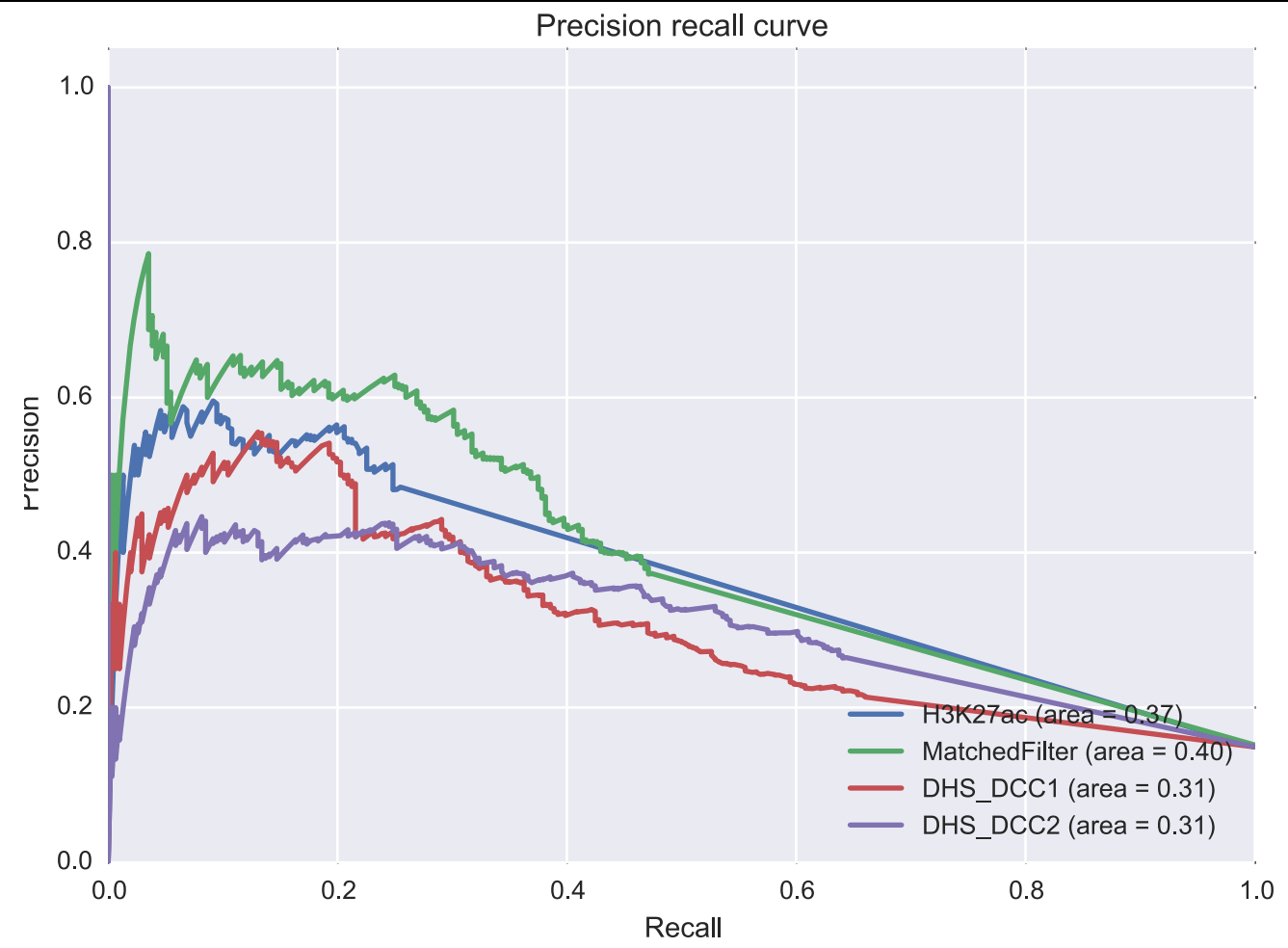
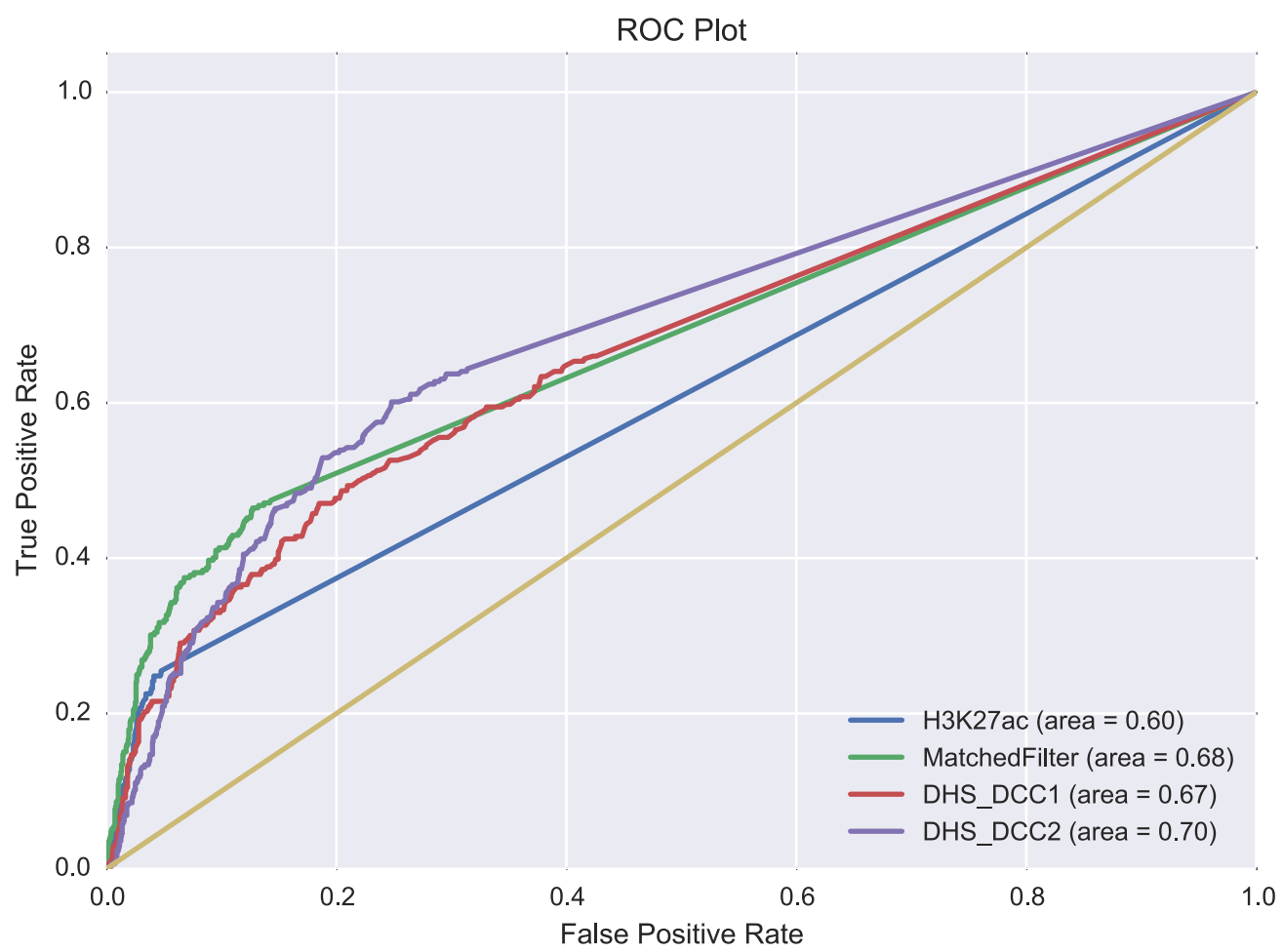
Alternative proposal is to just ensemble rank the intersection of DHS peaks and MF predictions (quick solution but minimal improvement).

Can look up figures for all 4 tissue but very similar results

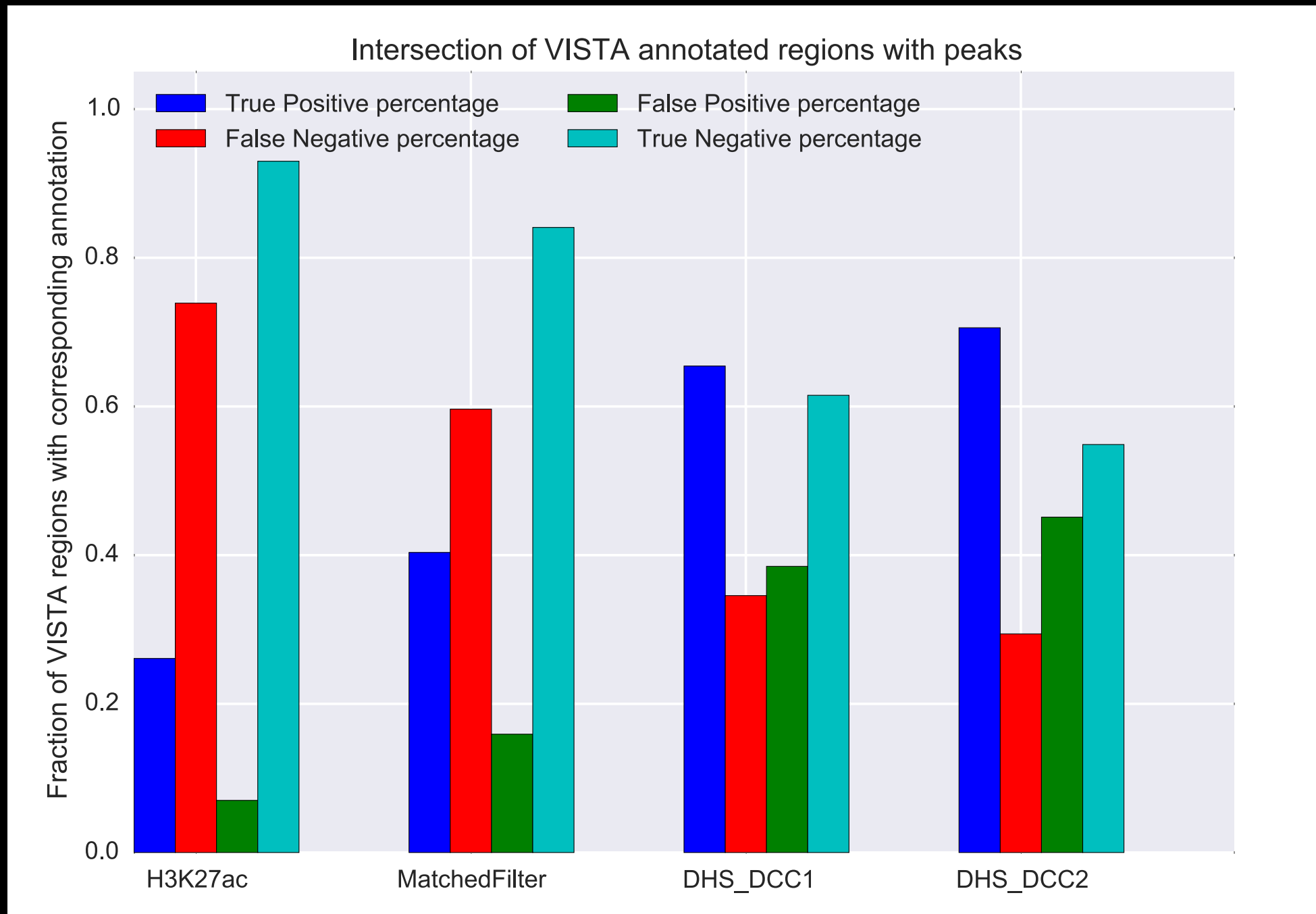
Performance on midbrain



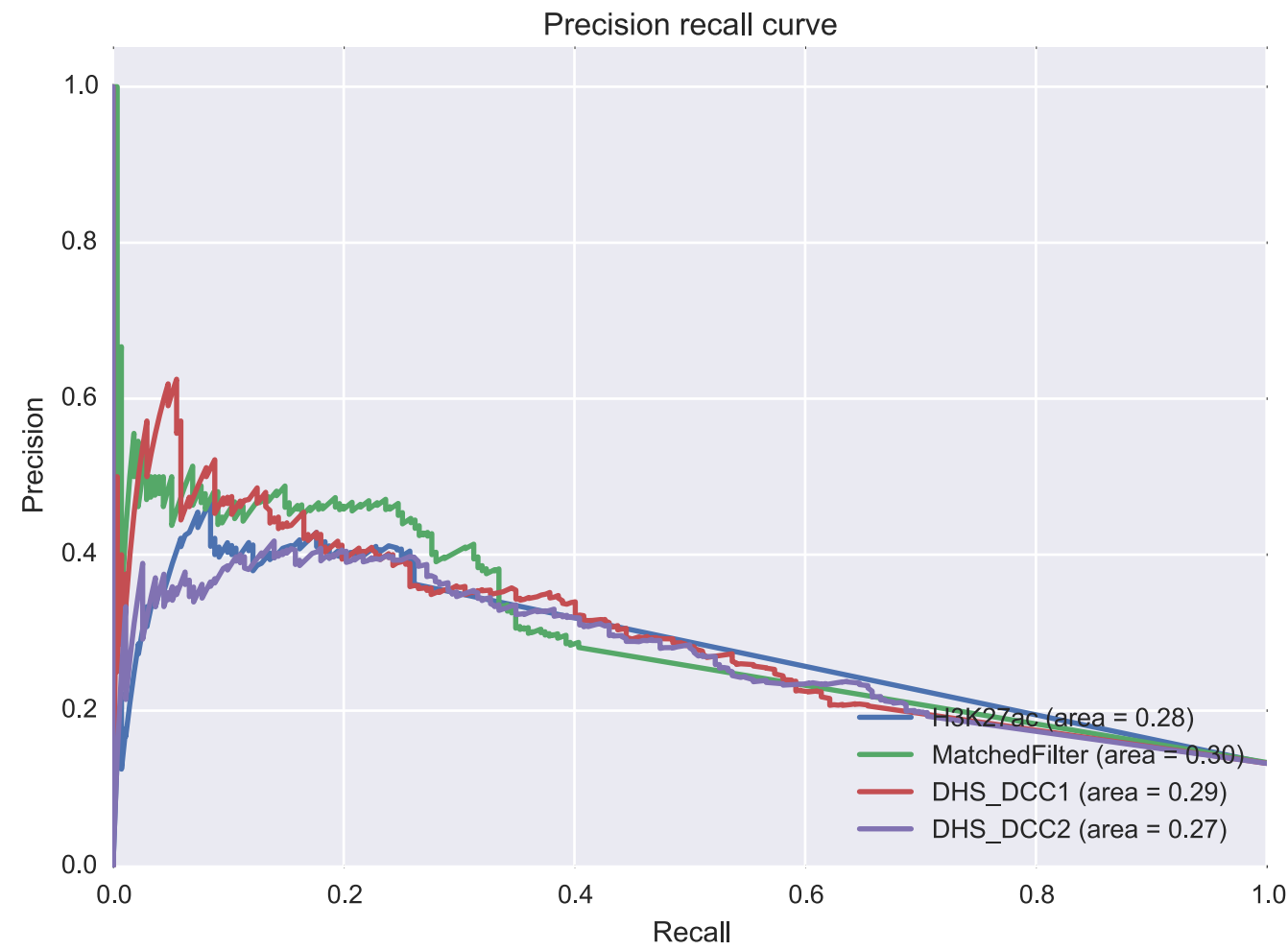
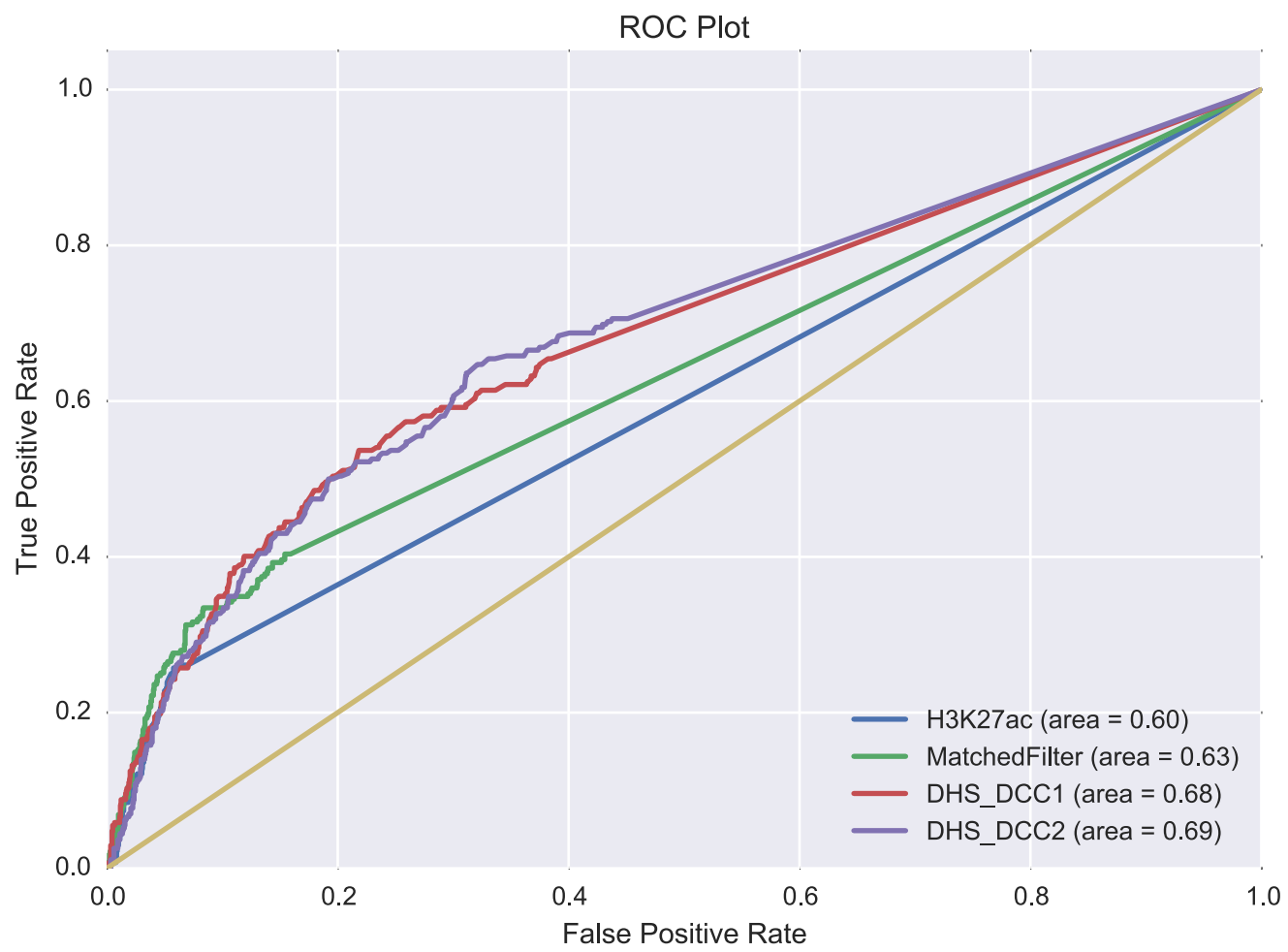
Performance on midbrain



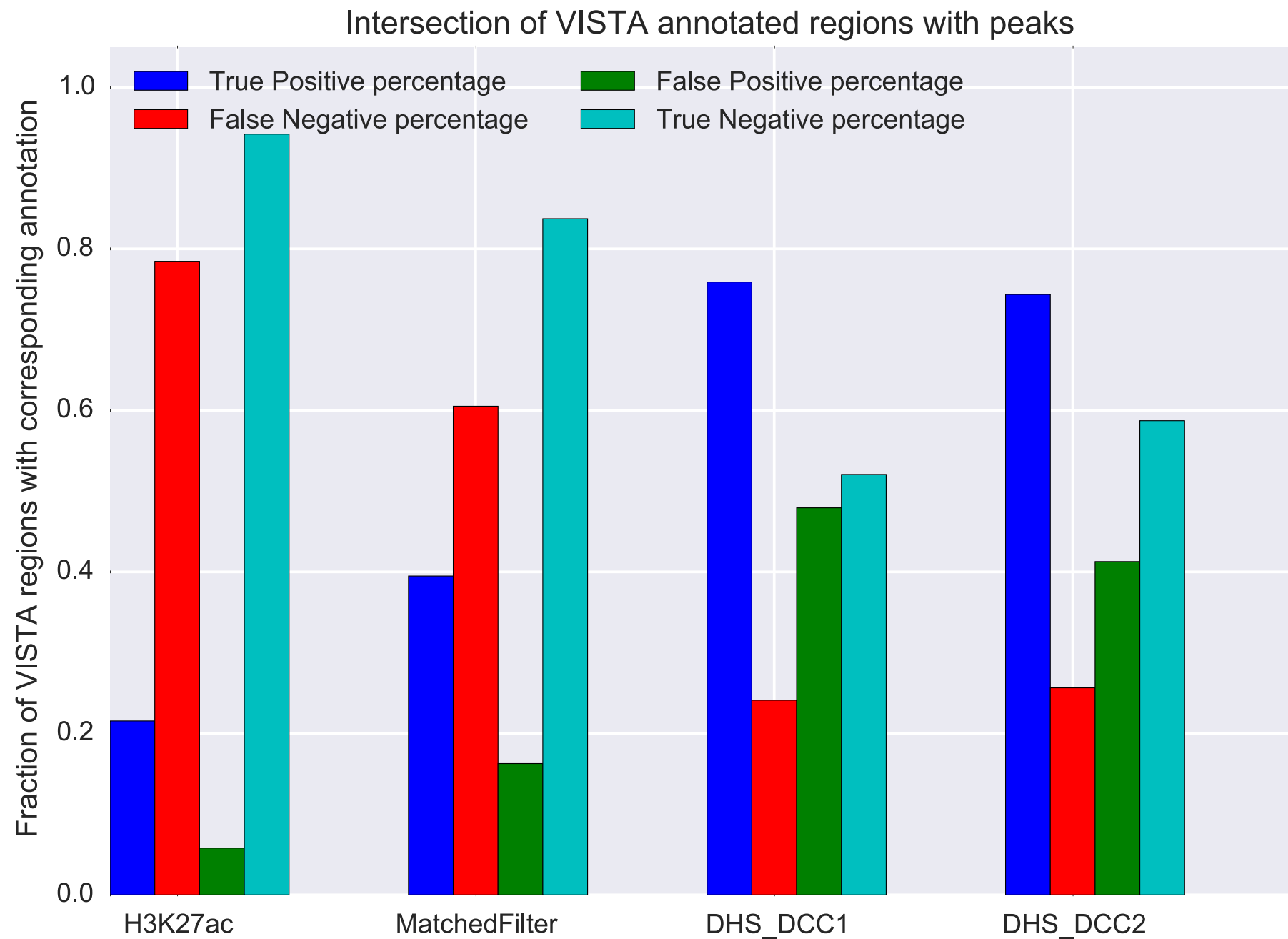
Performance on hindbrain



Performance on hindbrain

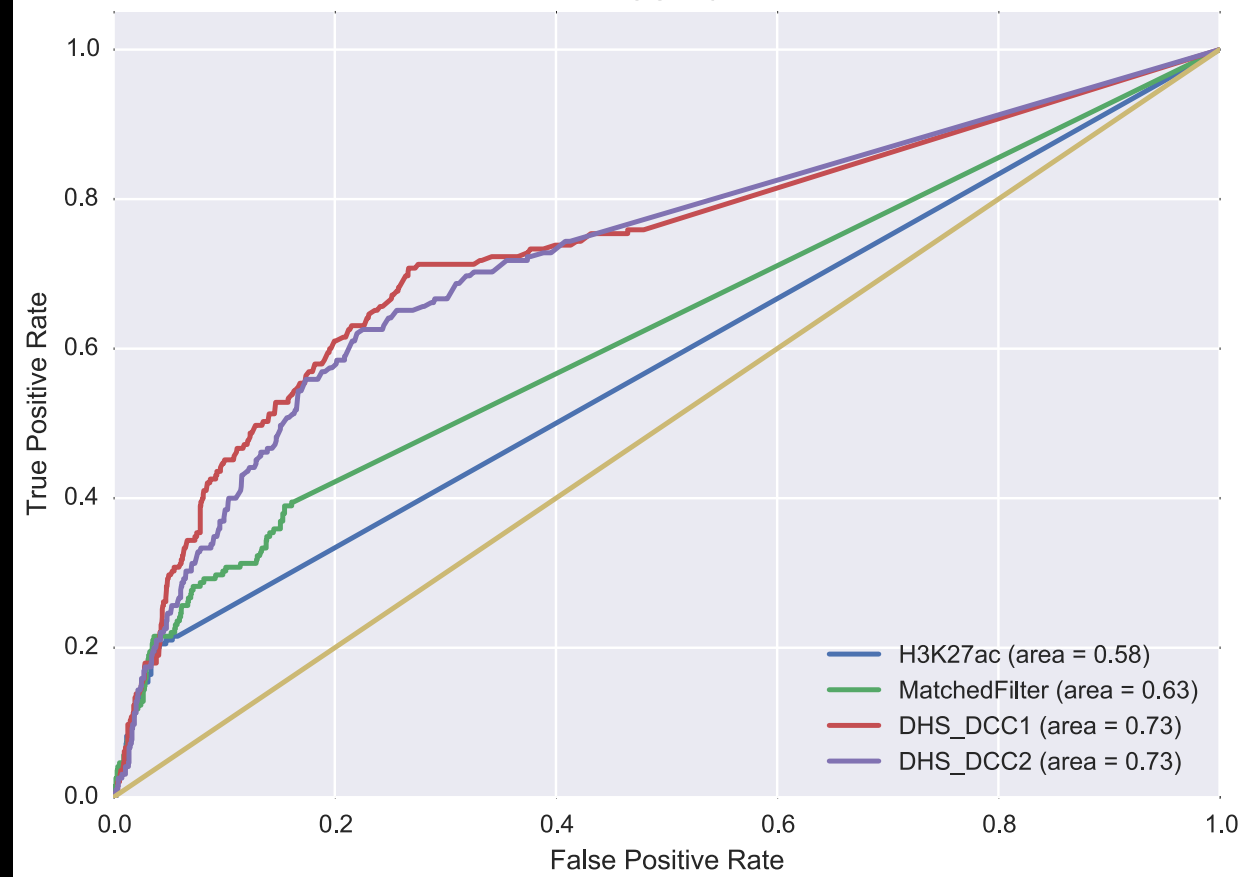


Performance on neural tube

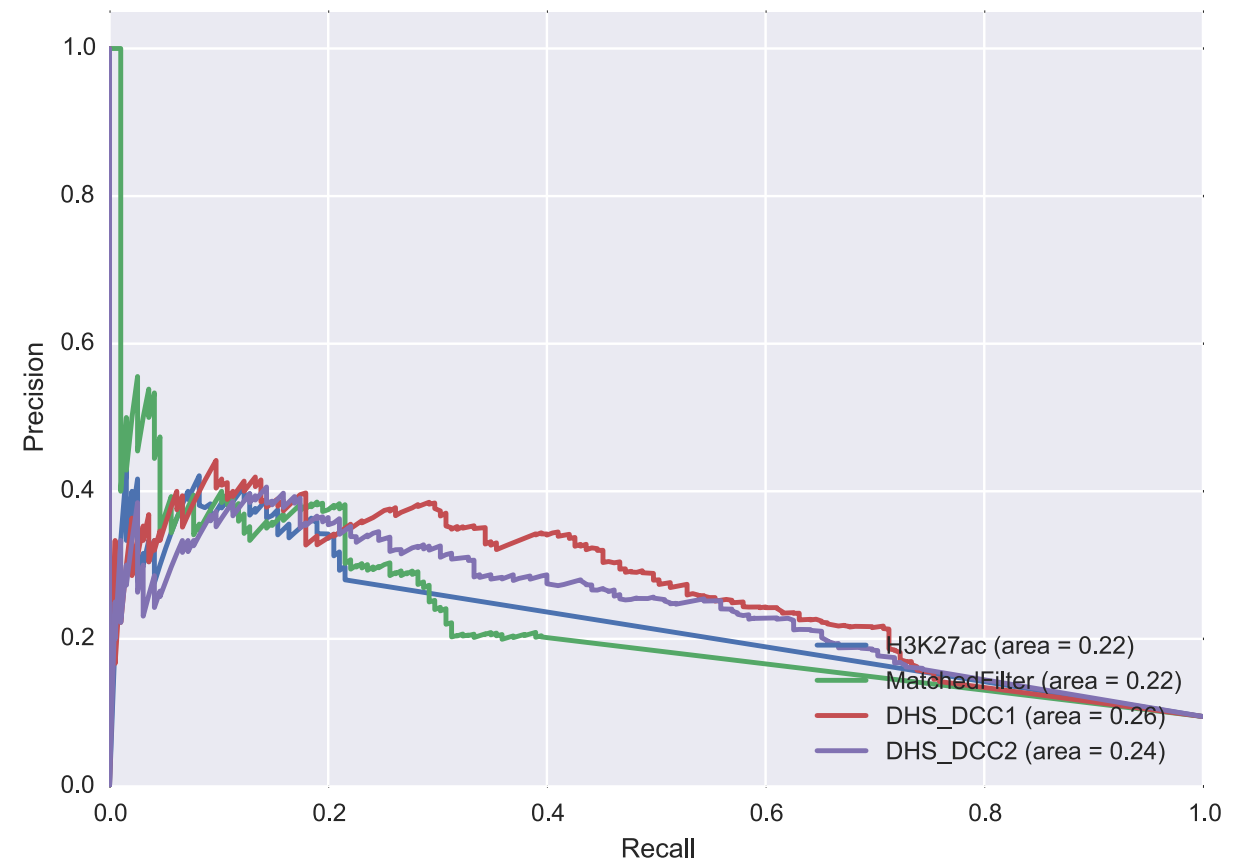


Performance on neural tube

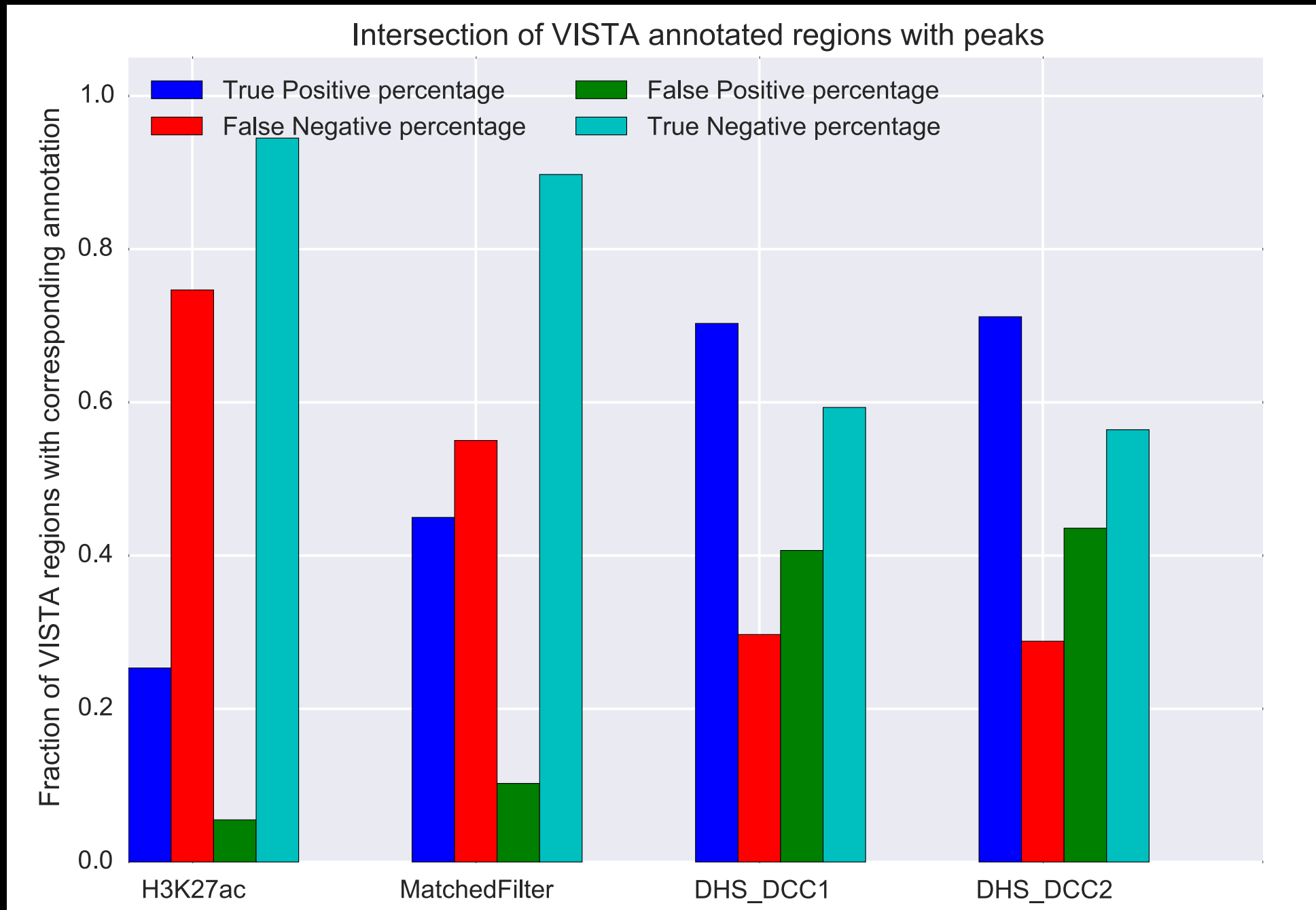
ROC Plot



Precision recall curve

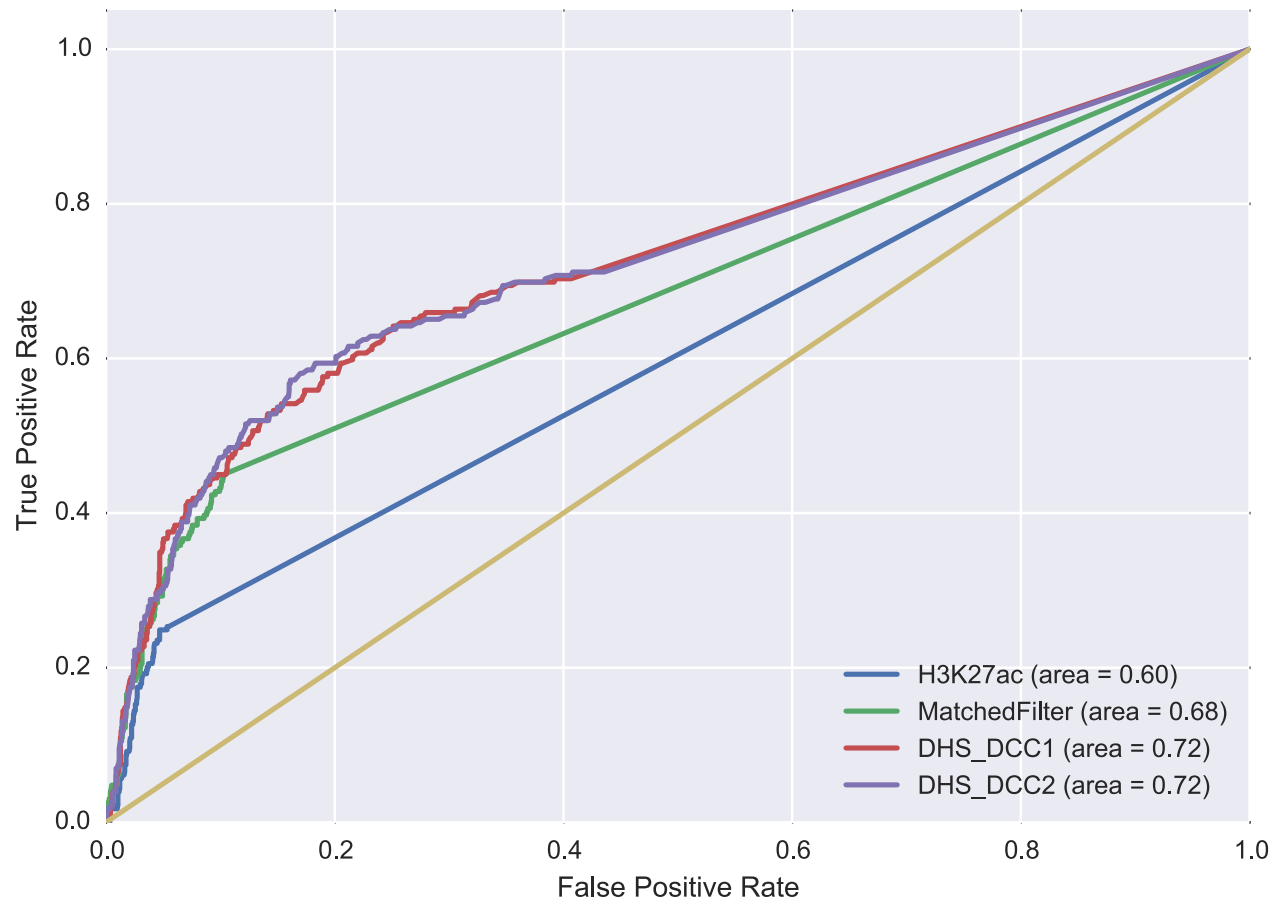


Performance on limb



Performance on limb

ROC Plot



Precision recall curve

