Rise Z-score for hsapiens shuffled Z-score 0.1 0.0 Average –0.1 –0.2 –0.2 -200 -100-100100 200-200 200-200 100 200 100 -100Position around TSS (bp) Z-score 0.1 0.0 Average -0.1 -0.2 -200-100200 100 Position around TSS (bp) Absolute difference value 0.00 0.00 0.00 0.00 0.00 Difference between raw and hmm shapes mahhmammammamhamm -200200 100 Position around TSS (bp)