Rise Z-score for dmelanogaster shuffled hmm Z-score 0.50 0.25 Average 0.00 -0.25 -200-100100 200-200 -100100 200-200 -1000 100 200 Position around TSS (bp) Average Z-score 0.50 0.25 0.00 -0.25 -200-100100 200 Position around TSS (bp) Absolute difference value 0.0 0.0 0.0 1 0.0 0.0 1 Difference between raw and hmm shapes -200-100100 200 Position around TSS (bp)