MGW Z-score for athaliana shuffled hmm Ayerage Z-score 0.75 0.50 0.25 0.00 -0.25 -200 -100100 200-200 -100100 200-200 -100100 0 200 Position around TSS (bp) source — hmm — raw Average Z-score 0.00 0.00 0.00 0.25 -200-100100 200 Position around TSS (bp) Absolute difference value Difference between raw and hmm shapes 0.6 0.4 0.2 0.0 -200-100100 200 Position around TSS (bp)