

**Supplement Figure 1: Mix-and-matching in**  $\sigma^{W}$  **sequences.** A correlation between the average dsDNA element strength (assessed by the weight matrix score – *y*-axis) and ssDNA element strength (assessed by the number of mismatches in the corresponding -10 elements – *x*-axis) is shown. Note that stronger -35 element strength is associated with larger (less negative) weight matrix score.