

**Table S4.** Euclidean distance between motifs

Comparison	8-bp core	Flanking
PBM+ChIP+MRE+ vs PBM+ChIP+MRE-	0.080	0.212
PBM+ChIP+MRE+ vs PBM-ChIP-MRE+	0.091	0.117
PBM+ChIP+MRE+ vs PBM-ChIP-MRE-	0.268	0.264
PBM+ChIP+MRE- vs PBM-ChIP-MRE+	0.119	0.196
PBM+ChIP+MRE- vs PBM-ChIP-MRE-	0.235	0.200
PBM-ChIP-MRE+ vs PBM-ChIP-MRE-	0.247	0.210

The Euclidean distance between all classes of motifs is shown. The Euclidean distance between the 8-bp cores and the flanking sequences are shown separately.