

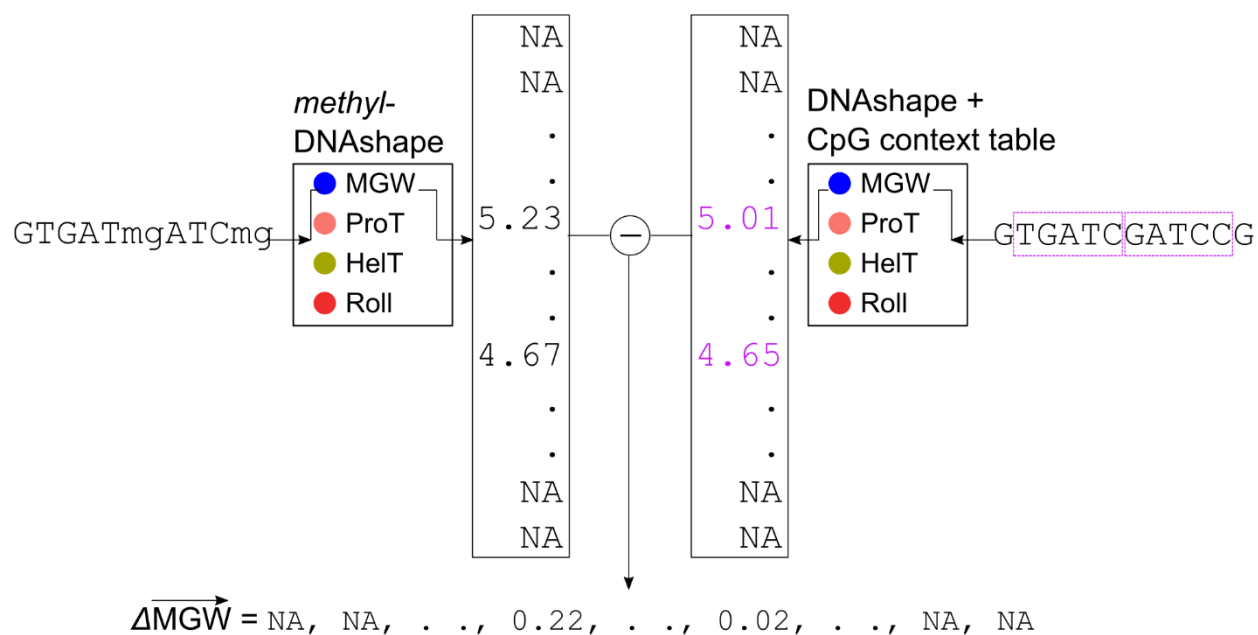


Fig. S2. Use of CpG context table in ΔMGW prediction. Example query sequence, 5'-GTGATmgATCmg-3', used to illustrate ΔMGW prediction. Querying 'TGATm' (GTGATmgATCmg) to *methyl*-DNAshape gives $\text{MGW} = 5.23 \text{ \AA}$. Retrieving the value ($5.01 \text{ \AA}$) for its unmethylated version 'TGATC' (left magenta dotted rectangle) would require a lookup in the CpG context table. Similarly, the unmethylated version of pentamer 'gATCm' (GATCC; right magenta dotted rectangle) would require CpG contexts at both flanks. With compilation of the CpG context table, these specific cases can be taken into account.