Gibbs Sampling: Profiles

If we knew the starting point of the motif in each sequence, we could construct a Sequence Profile (PSSM) for the motif:

x_1

1. ttgccacaaaataatccgccttcgcaaattgacc**TACCTCAATAGCGGTA**gaaaaacgcaccactgcctgacag

x_2

2. gtaagtacctgaaagttacggtctgcgaacgctattccac**TGCTCCTTTATAGGTA**caacagtatagtctga

x_3

3. ccacacggcaaataaggag**TAACTCTTTCCGGGTA**tgggtatacttcagccaatagccgagaatactgccatt

x_4

4. ccatacccggaaagagttactccttatttgccgtgtggttagtcgctt**TACATCGGTAAGGGTA**gggatttt

x_5

5. aaactattaagattttttatgcagatgggtattaagga**GTATTCCCCATGGGTA**acatattaatggctctta

x_6

6. ttacagtctgttatgtggtggctgttaa**TTATCCTAAAGGGGTA**tcttaggaatttactt

TACCTCAATAGCGGTA
TGCTCCTTTATAGGTA
TAACTCTTTCCGGGTA
TACATCGGTAAGGGTA
GTATTCCCCATGGGTA
TTATCCTAAAGGGGTA