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GUCUUCGGCAC
GCCUUCGGAGC
GCAUUCGUCGC
GCUUUCGAUGC
GCGUUCGCUGC
GUAUUCGUAAC
GUGUUCGCGAC
GUUUUCGAGAC



Each column is independent

Maximum information is 2 bits per position, if column is 100% conserved.

 $log_2 (4/1) = 2 bits$

sequence profile: 14 bits

expect a match by chance:
1 in 2¹⁴ nt =~ 4 Kb