



b

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B | R | M | C | W | A | W | H | R | W | G | G | B | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Sequência consenso

c Matriz de frequência de posição (PFM)

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| A | 0 | 4 | 4 | 0 | 3 | 7 | 4 | 3 | 5 | 4  | 2  | 0  | 0  | 4  |
| C | 3 | 0 | 4 | 8 | 0 | 0 | 0 | 3 | 0 | 0  | 0  | 0  | 2  | 4  |
| G | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0  | 6  | 8  | 5  | 0  |
| T | 3 | 1 | 0 | 0 | 5 | 1 | 4 | 2 | 2 | 4  | 0  | 0  | 1  | 0  |

d Matriz de peso de posição (PWM)

| A | -1.93 | 0.79  | 0.79  | -1.93 | 0.45  | 1.50  | 0.79  | 0.45  | 1.07  | 0.79  | 0.00  | -1.93 | -1.93 | 0.79  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C | 0.45  | -1.93 | 0.79  | 1.68  | -1.93 | -1.93 | -1.93 | 0.45  | -1.93 | -1.93 | -1.93 | -1.93 | 0.00  | 0.79  |
| G | 0.00  | 0.45  | -1.93 | -1.93 | -1.93 | -1.93 | -1.93 | -1.93 | 0.66  | -1.93 | 1.30  | 1.68  | 1.07  | -1.93 |
| T | 0.15  | 0.66  | -1.93 | -1.93 | 1.07  | 0.66  | 0.79  | 0.00  | 0.00  | 0.79  | -1.93 | -1.93 | -0.66 | -1.93 |

e Pontuação de uma sequência genômica sendo analisada

|      |       |      |      |      |       |      |      |       |      |      |      |       |      |
|------|-------|------|------|------|-------|------|------|-------|------|------|------|-------|------|
| 0.45 | -0.66 | 0.79 | 1.68 | 0.45 | -0.66 | 0.79 | 0.45 | -0.66 | 0.79 | 0.00 | 1.68 | -0.66 | 0.79 |
| T    | T     | A    | C    | A    | T     | A    | A    | G     | T    | A    | G    | T     | C    |

$\Sigma = 5.23$ , 78% da máxima pontuação (consenso)

