| Position-Specific Weight Matrix (PSWM 2) |       |       |       |       |       |       |          |         |       |       |       |       |       |       |       |   |                                 |
|--|-------|-------|-------|-------|-------|-------|----------|---------|-------|-------|-------|-------|-------|-------|-------|---|---------------------------------|
| A  | 0.04  | 0.47  | 0.18  | 0.32  | 0.99  | 0.99  | 0.32     | 0.85    | 0.74  | 0.27  | 1.71  | -0.17 | 2.54  | 1.04  | -0.84 |   |                                 |
| Q  | -3.42 | -2.83 | -1.61 | -2.83 | -2.83 | -0.61 | -1.25    | -4.42   | 0.54  | -0.17 | -2.83 | 0.90  | -2.10 | 0.94  | 0.39  |   | <del>-</del> 2                  |
| T  | 2.10  | 2.16  | 2.06  | 2.08  | 1.99  | 1.64  | 1.85     | 1.13    | -0.63 | 0.70  | -1.19 | 0.48  | -2.01 | 0.09  | -0.63 |   |                                 |
| S  | 0.03  | -0.86 | -0.59 | -0.32 | -0.09 | 0.28  | -0.09    | -0.22   | 1.09  | 0.68  | 1.09  | 0.95  | 0.91  | 0.31  | 0.44  |   | _ 1                             |
| R  | -2.91 | -4.91 | -2.91 | -3.32 | -3.91 | -4.91 | -1.45    | -3.32   | -1.74 | -0.52 | -3.32 | 0.18  | -2.10 | -0.74 | -0.00 |   | <b>-</b> 1                      |
| 口  | -3.60 | -4.19 | -5.19 | -3.60 | -4.19 | -2.60 | -3.19    | -3.19   | -1.10 | -1.02 | -3.19 | 0.02  | -2.60 | 0.24  | 0.48  |   |                                 |
| X  | -2.98 | -3.98 | -4.98 | -4.98 | -4.98 | -3.98 | -2.98    | -3.98   | -2.17 | -1.52 | -3.39 | -1.17 | -2.98 | -0.28 | 0.19  |   | - 0                             |
| I  | -1.41 | -1.06 | -0.62 | -0.70 | -1.54 | -0.11 | -0.28    | -0.01   | 0.30  | -0.17 | 0.22  | -0.17 | -1.28 | -0.62 | -0.06 |   | <u> </u>                        |
| cid<br>N                                 | -4.47 | -3.47 | -3.47 | -2.88 | -2.14 | -2.88 | -1.88    | -2.14   | -1.66 | -1.88 | -1.66 | -0.47 | -2.14 | -0.88 | -0.88 |   | ا ا<br>ای<br>Score (log2 ratio) |
| Y ()                                     | -1.56 | -2.10 | -1.02 | -0.74 | -0.81 | -0.94 | -0.68    | -1.46   | 0.76  | 0.64  | 0.35  | -0.87 | 1.33  | 0.09  | -0.46 |   | 1 28                            |
| Amino W                                  | -0.57 | -1.31 | -0.67 | -1.16 | -0.48 | -0.23 | -0.67    | -0.39   | -0.78 | -1.16 | -2.16 | -1.02 | -2.89 | -1.89 | -3.48 |   | (lo                             |
| An<br>W                                  | 1.02  | 0.88  | -0.12 | 1.02  | -0.12 | 0.56  | 0.88     | 0.88    | -0.12 | 0.36  | -1.44 | 1.56  | -2.44 | -0.12 | 0.14  |   | 2<br>O <u>r</u> e               |
| D  | -3.89 | -4.89 | -4.89 | -4.89 | -2.89 | -2.89 | -2.89    | -2.31   | -0.89 | -1.57 | -3.89 | -0.03 | -3.31 | 0.15  | 0.19  |   | Sc                              |
| Н  | -2.04 | -2.04 | -2.63 | -3.63 | -2.04 | -2.63 | -0.82    | -0.82   | 0.46  | -1.04 | -2.63 | 1.18  | -2.63 | -0.30 | 0.07  |   |                                 |
| ഥ  | 1.13  | 1.16  | 0.56  | 1.07  | 0.74  | 0.51  | 0.51     | 0.36    | -0.81 | -0.30 | -2.39 | -0.39 | -3.39 | 0.00  | -0.81 |   | <b>-</b> -3                     |
| Y  | -1.40 | -1.99 | -1.99 | -2.99 | -1.99 | -1.40 | -0.53    | -1.18   | -1.99 | -0.67 | -3.99 | 0.40  | -2.40 | -0.53 | -0.40 |   |                                 |
| C  | 1.55  | 1.34  | 0.90  | 1.79  | 1.48  | 2.22  | 2.30     | 1.55    | 0.68  | 1.26  | 2.30  | 0.09  | 1.74  | 0.55  | 1.00  |   | 4                               |
| Ι  | -0.10 | 0.21  | 0.17  | 0.24  | -0.92 | -0.48 | -0.15    | 0.46    | -1.10 | -1.42 | -0.76 | -0.83 | -4.00 | -0.42 | -0.92 |   | <b>-</b> -4                     |
| Д  | -1.52 | -1.69 | -1.37 | -1.52 | -1.10 | -1.88 | -1.23    | 0.44    | 1.17  | 0.93  | -1.69 | -1.69 | -0.23 | -2.10 | 1.62  |   |                                 |
| >  | 0.54  | 0.59  | 1.10  | 0.17  | 0.42  | 0.10  | -0.31    | 1.16    | -0.18 | 0.30  | 1.60  | -1.13 | -4.22 | -0.70 | -0.22 |   | <b>-</b> -5                     |
|  | 1     | 2     | 3     | 4     | 5     | 6     | 7        | 8       | 9     | 10    | 11    | 12    | 13    | 14    | 15    | _ |                                 |
|  |       |       |       |       |       | Po    | sition ( | [15-mer | windo | w)    |       |       |       |       |       |   |                                 |