Score matrix of HMG sites:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | -1.79 | -1.79 | -1.79 | -1.79 | -1.79 | -1.79 |   1.08 |   0.25 |
| C |   0.98 |   0.98 | -1.79 | -1.79 | -1.79 | -1.79 | -1.79 | -1.79 |
| G |   -0.00 | -1.79 | -1.79 | -1.79 | -1.79 |   1.47 | -1.79 | -1.79 |
| T | -0.33 |   0.25 |   1.08 |   1.08 |   1.08 | -1.79 | -1.79 |   0.61 |

Alignment matrix of HMG sites:

|  |  |  |  |
| --- | --- | --- | --- |
| *ceh-22* HMG1 | : | GCTTTGAT | **score=7.38** |
| *ceh-22* HMG2 | : | CTTTTGAA | **score=7.27** |
| *psa-3* HMG | : | CTTTTGAT | **score=7.63** |
| *end-1* HMG | : | TCTTTGAA | **score=6.69** |
| POPHHOP HMG | : | CCTTTGAT | **score=8.36** |

Score matrix of Helper sites:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A | -2.08 | -2.08 | -2.08 |   0.32 |   0.58 |   0.32 |   0.32 |
| C | -2.08 |   1.50 |   1.50 | -2.08 |   0.69 | -0.29 | -0.29 |
| G |   1.50 | -2.08 | -2.08 |   0.97 | -2.08 |   0.32 | -0.29 |
| T | -2.08 | -2.08 | -2.08 | -2.08 | -2.08 | -0.61 | -0.04 |

Alignment matrix of Helper sites:

|  |  |  |  |
| --- | --- | --- | --- |
| *ceh-22* Helper1 | : | GCCGAAA | **score=6.69** |
| *ceh-22* Helper2 | : | GCCGCTT | **score=5.51** |
| *psa-3* Helper | : | GCCGACA | **score=6.08** |
| *end-1* Helper1 | : | GCCAAAA | **score=6.04** |
| *end-1* Helper2 | : | GCCAAGT | **score=5.68** |
| *end-1* Helper3 | : | GCCACAC | **score=5.54** |
| POPHHOP Helper | : | GCCGCGG | **score=6.19** |