|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| query cluster | template cluster | error count | simu error | sd | significance |
| **Significantly worse than random** |
| \*L1-16-none | L1-16-1 | 10.0 | 9.0 | 0.9 | 1.000 |
| \*H2-9-none | H2-9-1 | 9.0 | 8.5 | 0.7 | 1.000 |
| H1-14-none | H1-14-1 | 10.0 | 7.2 | 1.7 | 0.982 |
| \*H2-10-2 | H2-10-6 | 13.0 | 7.1 | 2.6 | 0.988 |
| H1-15-none | H1-15-1 | 7.0 | 5.8 | 1.0 | 1.000 |
| H2-9-3 | H2-9-1 | 4.0 | 3.8 | 0.5 | 1.000 |
| \*H1-13-3 | H1-13-none | 7.7 | 2.4 | 1.5 | 0.996 |
| H2-10-4 | H2-10-2 | 5.0 | 2.3 | 1.3 | 0.986 |
| H1-13-none | H1-13-3 | 6.0 | 2.3 | 1.5 | 0.990 |
| \*L1-11-none | L1-11-3 | 6.7 | 2.0 | 1.4 | 0.996 |
| \*H1-13-5 | H1-13-none | 4.7 | 1.7 | 1.2 | 0.975 |
| \*H1-13-none | H1-13-5 | 5.0 | 1.7 | 1.2 | 0.998 |
| \*L3-9-none | L3-9-1 | 8.3 | 1.7 | 1.3 | 1.000 |
| \*L1-12-1 | L1-12-none | 3.7 | 1.3 | 0.9 | 0.980 |
| H1-13-6 | H1-13-none | 4.0 | 0.9 | 0.9 | 0.998 |
|  |  |  |  |  |  |
| **Not different from random** |
| \*H2-10-none | H2-10-1 | 20.7 | 24.3 | 3.2 | 0.124 |
| L2-8-1 | L2-8-2 | 21.7 | 20.9 | 4.6 | 0.567 |
| L2-8-2 | L2-8-1 | 18.7 | 20.4 | 1.5 | 0.107 |
| L3-9-2 | L3-9-cis7-1 | 18.7 | 18.6 | 1.9 | 0.462 |
| H2-10-1 | H2-10-6 | 9.3 | 15.5 | 3.7 | 0.05 |
| H1-13-4 | H1-13-1 | 13.7 | 14.8 | 1.8 | 0.229 |
| L2-8-1 | L2-8-none | 12.7 | 12.8 | 3.4 | 0.481 |
| L2-8-none | L2-8-1 | 11.3 | 12.6 | 1.1 | 0.164 |
| H2-10-1 | H2-10-3 | 15.7 | 12.0 | 3.5 | 0.846 |
| H2-10-3 | H2-10-1 | 13.3 | 11.9 | 2.3 | 0.75 |
| \*H2-10-2 | H2-10-none | 12.0 | 11.5 | 3.2 | 0.64 |
| \*L3-8-none | L3-8-1 | 8.3 | 11.5 | 2.7 | 0.141 |
| H2-10-none | H2-10-2 | 11.3 | 11.4 | 3.0 | 0.503 |
| \*L3-10-none | L3-10-1 | 9.3 | 10.0 | 2.8 | 0.441 |
| \*L1-16-1 | L1-16-none | 5.0 | 9.2 | 2.8 | 0.097 |
| H1-13-1 | H1-13-2 | 7.0 | 8.9 | 2.9 | 0.318 |
| \*L3-9-cis7-1 | L3-9-cis7-2 | 9.3 | 8.8 | 2.9 | 0.612 |
| H2-9-1 | H2-9-none | 3.3 | 8.6 | 2.8 | 0.026 |
| H1-13-2 | H1-13-1 | 6.7 | 8.6 | 1.4 | 0.073 |
| L2-8-1 | L2-8-4 | 13.0 | 8.2 | 2.9 | 0.953 |
| L2-8-4 | L2-8-1 | 8.3 | 8.1 | 0.9 | 0.65 |
| H1-14-1 | H1-14-none | 6.0 | 7.7 | 2.1 | 0.27 |
| \*H2-10-6 | H2-10-2 | 4.0 | 7.1 | 2.3 | 0.124 |
| \*L1-14-none | L1-14-2 | 5.7 | 6.3 | 1.9 | 0.349 |
| \*L1-15-none | L1-15-1 | 4.0 | 6.2 | 0.9 | 0.039 |
| \*L3-10-none | L3-10-cis7,8-1 | 8.0 | 5.9 | 2.3 | 0.868 |
| L3-9-cis7-3 | L3-9-cis7-1 | 4.0 | 4.8 | 1.0 | 0.325 |
| L3-9-cis7-1 | L3-9-cis7-3 | 5.0 | 4.8 | 2.2 | 0.637 |
| \*L1-10-1 | L1-10-none | 4.0 | 4.5 | 1.9 | 0.529 |
| \*L3-8-none | L3-8-2 | 5.3 | 4.1 | 1.9 | 0.79 |
| \*L1-11-3 | L1-11-none | 4.0 | 2.0 | 1.4 | 0.95 |
| \*L3-9-none | L3-9-2 | 3.7 | 1.6 | 1.2 | 0.925 |
| \*L3-9-1 | L3-9-none | 3.7 | 1.6 | 1.2 | 0.929 |
|  |  |  |  |  |  |
| **Significantly better than random** |
| H2-10-2 | H2-10-1 | 14.7 | 97.7 | 6.7 | 0 |
| H2-10-1 | H2-10-2 | 6.3 | 97.6 | 8.2 | 0 |
| H1-13-1 | H1-13-none | 21.3 | 65.7 | 7.5 | 0 |
| \*H1-13-none | H1-13-1 | 34.7 | 64.7 | 3.7 | 0 |
| L1-11-2 | L1-11-1 | 20.0 | 42.2 | 4.1 | 0 |
| L1-11-1 | L1-11-2 | 17.0 | 41.8 | 5.4 | 0 |
| L3-9-none | L3-9-cis7-1 | 19.0 | 29.8 | 2.4 | 0 |
| L3-9-cis7-1 | L3-9-none | 6.3 | 29.7 | 5.3 | 0 |
| \*H2-10-1 | H2-10-none | 12.3 | 24.4 | 4.6 | 0.003 |
| \*L3-9-cis7-1 | L3-9-2 | 7.7 | 18.6 | 4.2 | 0.001 |
| H1-13-1 | H1-13-3 | 5.0 | 17.4 | 4.2 | 0 |
| \*L3-11-none | L3-11-1 | 11.3 | 17.3 | 2.5 | 0.008 |
| H1-13-3 | H1-13-1 | 8.3 | 17.1 | 2.0 | 0 |
| \*H2-10-6 | H2-10-1 | 7.7 | 15.5 | 2.6 | 0 |
| \*H1-13-1 | H1-13-4 | 6.7 | 15.1 | 3.9 | 0.009 |
| L1-11-none | L1-11-1 | 6.0 | 12.8 | 2.3 | 0.003 |
| L1-11-1 | L1-11-none | 5.0 | 12.7 | 3.3 | 0.011 |
| \*H1-13-5 | H1-13-1 | 3.7 | 12.5 | 1.7 | 0 |
| \*L3-8-1 | L3-8-none | 3.3 | 11.6 | 2.4 | 0 |
| \*L3-10-1 | L3-10-none | 5.7 | 10.1 | 1.8 | 0.008 |
| \*L3-9-cis7-2 | L3-9-cis7-1 | 5.0 | 8.9 | 1.3 | 0.008 |
|  |  |  |  |  |  |
| **Significantly better than random with <=3 error counts** |
| \*L3-9-1 | L3-9-cis7-1 | 2.0 | 18.7 | 1.9 | 0 |
| \*L3-11-1 | L3-11-none | 2.0 | 17.1 | 3.3 | 0 |
| \*H1-13-1 | H1-13-5 | 1.0 | 12.6 | 3.5 | 0 |
| L1-12-2 | L1-12-1 | 3.0 | 7.5 | 1.8 | 0.006 |
| L1-12-1 | L1-12-2 | 2.3 | 7.4 | 2.2 | 0.013 |
| \*H1-15-1 | H1-15-none | 2.3 | 6.9 | 2.3 | 0.016 |
| L1-13-none | L1-13-1 | 2.0 | 6.5 | 1.4 | 0.002 |
| L1-13-1 | L1-13-none | 1.0 | 6.2 | 2.3 | 0.008 |
| \*H1-13-6 | H1-13-1 | 1.0 | 6.2 | 1.2 | 0 |
|  \*L3-10-cis7,8-1 | L3-10-none | 2.0 | 6.2 | 1.4 | 0.001 |
| \*H1-13-7 | H1-13-1 | 1.0 | 6.1 | 1.2 | 0 |
| \*L1-14-2 | L1-14-none | 1.0 | 6.0 | 2.0 | 0.008 |
| \*L1-11-2 | L1-11-none | 0.7 | 5.6 | 2.3 | 0.006 |
| \*H2-10-4 | H2-10-1 | 1.0 | 5.1 | 1.4 | 0.005 |
| L1-10-none | L1-10-1 | 2.0 | 4.4 | 0.7 | 0.009 |
| H2-10-5 | H2-10-1 | 0.7 | 2.8 | 1.1 | 0.012 |