|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Query cluster | Template cluster | blindBLAST error | GBM error | GBM improvement |
| H1-13-2 |
| H1-13-2 | H1-13-none | 2.7 | 2.7 | 0.0 |
| H1-13-2 | H1-13-6 | 0.0 | 0.7 | -0.7 |
| H1-13-2 | H1-13-5 | 0.0 | 1.0 | -1.0 |
| H1-13-2 | H1-13-4 | 0.3 | 2.3 | -2.0 |
| H1-13-2 | H1-13-3 | 1.0 | 4.7 | -3.7 |
| H1-13-2 | H1-13-1 | 6.0 | 10.3 | -4.3 |
|  |  |  |  |  |
| H1-13-3 |
| H1-13-3 | H1-13-none | 6.3 | 1.0 | 5.3 |
| H1-13-3 | H1-13-6 | 0.7 | 0.3 | 0.3 |
| H1-13-3 | H1-13-5 | 2.3 | 2.3 | 0.0 |
| H1-13-3 | H1-13-4 | 0.0 | 1.3 | -1.3 |
| H1-13-3 | H1-13-2 | 1.0 | 2.3 | -1.3 |
| H1-13-3 | H1-13-1 | 9.3 | 14.0 | -4.7 |
|  |  |  |  |  |
| H1-13-4 |
| H1-13-4 | H1-13-1 | 14.0 | 10.7 | 3.3 |
| H1-13-4 | H1-13-none | 1.0 | 1.0 | 0.0 |
| H1-13-4 | H1-13-7 | 0.0 | 0.7 | -0.7 |
| H1-13-4 | H1-13-3 | 0.0 | 1.0 | -1.0 |
| H1-13-4 | H1-13-2 | 0.0 | 1.3 | -1.3 |
|  |  |  |  |  |
| H1-13-5 |
| H1-13-5 | H1-13-none | 5.0 | 0.0 | 5.0 |
| H1-13-5 | H1-13-7 | 0.0 | 0.3 | -0.3 |
| H1-13-5 | H1-13-1 | 3.7 | 4.0 | -0.3 |
| H1-13-5 | H1-13-3 | 1.0 | 2.0 | -1.0 |
| H1-13-5 | H1-13-6 | 0.0 | 1.0 | -1.0 |
|  |  |  |  |  |
| H1-13-6 |
| H1-13-6 | H1-13-none | 4.0 | 1.7 | 2.3 |
| H1-13-6 | H1-13-2 | 0.0 | 0.3 | -0.3 |
| H1-13-6 | H1-13-7 | 0.0 | 1.3 | -1.3 |
| H1-13-6 | H1-13-1 | 0.7 | 2.0 | -1.3 |
| H1-13-6 | H1-13-3 | 0.3 | 2.0 | -1.7 |
| H1-13-6 | H1-13-5 | 0.0 | 2.0 | -2.0 |
|  |  |  |  |  |
| H1-13-7 |
| H1-13-7 | H1-13-5 | 0.0 | 1.0 | -1.0 |
| H1-13-7 | H1-13-6 | 0.0 | 1.0 | -1.0 |
| H1-13-7 | H1-13-1 | 1.0 | 3.0 | -2.0 |
|  |  |  |  |  |
| H2-10-3 |
| H2-10-3 | H2-10-1 | 12.3 | 11.7 | 0.7 |
| H2-10-3 | H2-10-2 | 0.3 | 0.0 | 0.3 |
| H2-10-3 | H2-10-6 | 1.3 | 1.3 | 0.0 |
| H2-10-3 | H2-10-none | 0.0 | 0.7 | -0.7 |
|  |  |  |  |  |
| H2-10-4 |
| H2-10-4 | H2-10-6 | 1.3 | 0.3 | 1.0 |
| H2-10-4 | H2-10-1 | 1.0 | 0.7 | 0.3 |
| H2-10-4 | H2-10-5 | 1.3 | 1.0 | 0.3 |
| H2-10-4 | H2-10-2 | 4.7 | 7.0 | -2.3 |
|  |  |  |  |  |
| H2-10-5 |
| H2-10-5 | H2-10-4 | 1.3 | 0.0 | 1.3 |
| H2-10-5 | H2-10-6 | 1.0 | 0.0 | 1.0 |
| H2-10-5 | H2-10-none | 1.0 | 0.0 | 1.0 |
| H2-10-5 | H2-10-1 | 1.0 | 1.0 | 0.0 |
| H2-10-5 | H2-10-2 | 0.7 | 4.0 | -3.3 |
|  |  |  |  |  |
| H2-10-6 |
| H2-10-6 | H2-10-1 | 8.3 | 5.0 | 3.3 |
| H2-10-6 | H2-10-4 | 2.0 | 0.0 | 2.0 |
| H2-10-6 | H2-10-none | 2.0 | 0.7 | 1.3 |
| H2-10-6 | H2-10-2 | 4.0 | 6.7 | -2.7 |
|  |  |  |  |  |
| H2-10-7 |
| H2-10-7 | H2-10-1 | 2.0 | 3.0 | -1.0 |
| H2-10-7 | H2-10-2 | 2.0 | 5.0 | -3.0 |
|  |  |  |  |  |
| H2-9-3 |
| H2-9-3 | H2-9-1 | 4.0 | 3.0 | 1.0 |
| H2-9-3 | H2-9-none | 0.0 | 1.0 | -1.0 |
|  |  |  |  |  |
| L1-11-3 |
| L1-11-3 | L1-11-none | 5.3 | 3.7 | 1.7 |
| L1-11-3 | L1-11-2 | 0.0 | 0.3 | -0.3 |
| L1-11-3 | L1-11-1 | 0.0 | 1.0 | -1.0 |
|  |  |  |  |  |
| L1-12-1 |
| L1-12-1 | L1-12-none | 3.7 | 0.0 | 3.7 |
| L1-12-1 | L1-12-2 | 2.3 | 3.7 | -1.3 |
|  |  |  |  |  |
| L1-12-2 |
| L1-12-2 | L1-12-1 | 3.7 | 2.7 | 1.0 |
|  |  |  |  |  |
| L1-13-1 |
| L1-13-1 | L1-13-none | 1.3 | 0.0 | 1.3 |
|  |  |  |  |  |
| L1-14-1 |
| L1-14-1 | L1-14-2 | 0.0 | 0.7 | -0.7 |
|  |  |  |  |  |
| L1-14-2 |
| L1-14-2 | L1-14-none | 1.7 | 0.3 | 1.3 |
| L1-14-2 | L1-14-1 | 0.0 | 1.7 | -1.7 |
|  |  |  |  |  |
| L1-15-1 |
| L1-15-1 | L1-15-none | 2.0 | 1.0 | 1.0 |
|  |  |  |  |  |
| L2-8-2 |
| L2-8-2 | L2-8-1 | 19.0 | 17.0 | 2.0 |
|  |  |  |  |  |
| L2-8-3 |
| L2-8-3 | L2-8-1 | 0.0 | 2.0 | -2.0 |
|  |  |  |  |  |
| L2-8-4 |
| L2-8-4 | L2-8-none | 0.7 | 0.0 | 0.7 |
| L2-8-4 | L2-8-1 | 8.3 | 8.3 | 0.0 |
| L2-8-4 | L2-8-2 | 0.0 | 0.3 | -0.3 |
| L2-8-4 | L2-8-3 | 0.0 | 0.3 | -0.3 |
|  |  |  |  |  |
| L3-10-1 |
| L3-10-1 | L3-10-none | 6.0 | 2.3 | 3.7 |
|  |  |  |  |  |
| L3-10-cis7, 8-1 |
| L3-10-cis7,8-1 | L3-10-none | 2.7 | 0.0 | 2.7 |
|  |  |  |  |  |
| L3-11-1 |
| L3-11-1 | L3-11-none | 2.3 | 0.7 | 1.7 |
|  |  |  |  |  |
| L3-8-1 |
| L3-8-1 | L3-8-none | 5.5 | 2.0 | 3.5 |
| L3-8-1 | L3-8-2 | 1.0 | 4.7 | -3.7 |
|  |  |  |  |  |
| L3-8-2 |
| L3-8-2 | L3-8-none | 2.0 | 0.3 | 1.7 |
| L3-8-2 | L3-8-1 | 3.0 | 3.7 | -0.7 |
|  |  |  |  |  |
| L3-9-1 |
| L3-9-1 | L3-9-none | 3.7 | 0.0 | 3.7 |
| L3-9-1 | L3-9-cis7-1 | 2.0 | 0.0 | 2.0 |
| L3-9-1 | L3-9-cis7-2 | 0.0 | 2.0 | -2.0 |
| L3-9-1 | L3-9-2 | 0.0 | 5.3 | -5.3 |
|  |  |  |  |  |
| L3-9-2 |
| L3-9-2 | L3-9-cis7-1 | 19.7 | 11.3 | 8.3 |
| L3-9-2 | L3-9-cis7-2 | 1.0 | 1.0 | 0.0 |
| L3-9-2 | L3-9-1 | 0.7 | 5.0 | -4.3 |
|  |  |  |  |  |
| L3-9-cis7-2 |
| L3-9-cis7-2 | L3-9-cis7-1 | 5.7 | 3.7 | 2.0 |
|  |  |  |  |  |
| L3-9-cis7-3 |
| L3-9-cis7-3 | L3-9-cis7-1 | 4.7 | 6.0 | -1.3 |