

Additional file 3 – Additional lines for Tables 5 and
6
Aligning coding sequences with frameshift extension
penalties

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Values of the six composition criteria for the `needleprot` method on the FS dataset (complement of Table 5 in the main manuscript).

| fs_open_ cost | fs_extend_cost (# CDS pairs) | Identity_ NT | Identity_ AA | Gap_ open | Gap_ length | FS_ init | FS_ length |
|------------------|---------------------------------|-----------------|-----------------|--------------|----------------|-------------|---------------|
| -10 | -1 (212) | 154976 | 301704 | 1295 | 59328 | 0 | 0 |
| | -0.5 (386) | 238026 | 434520 | 2793 | 112647 | 0 | 0 |
| | -0.2 (619) | 353805 | 606906 | 5628 | 203574 | 0 | 0 |
| -20 | -1 (161) | 113870 | 222846 | 848 | 38919 | 0 | 0 |
| | -0.5 (189) | 136732 | 267870 | 969 | 47313 | 0 | 0 |
| | -0.2 (216) | 150596 | 293556 | 1137 | 53145 | 0 | 0 |
| -30 | -1 (71) | 40082 | 76158 | 584 | 26295 | 0 | 0 |
| | -0.5 (154) | 110749 | 216594 | 814 | 36651 | 0 | 0 |
| | -0.2 (178) | 127040 | 248508 | 936 | 44073 | 0 | 0 |

For varying values of the parameters `fs_open_cost` and `fs_extend_cost`, the values of the criteria for the `needleprot` method.

Values of the six composition criteria for the `needlenuc` method on the `ambiguFS` dataset (complement of Table 6 in the main manuscript).

| <code>fs_open_cost</code> | <code>fs_extend_cost</code> (# CDS pairs) | Identity_ NT | Identity_ AA | Gap_ open | Gap_ length | FS_ init | FS_ length |
|---------------------------|--|-----------------|-----------------|--------------|----------------|----------------|---------------|
| -10 | -1 (2127) | 1527999 | 1617300 | 273104 | 943464 | 110296 (51.85) | 689967 |
| | -0.5 (1953) | 1421276 | 1485975 | 258749 | 890307 | 104367 (53.43) | 651357 |
| | -0.2 (1720) | 1258394 | 1320378 | 229358 | 794082 | 92648 (53.86) | 578366 |
| -20 | -1 (409) | 289271 | 344037 | 42656 | 150413 | 18033 (44.09) | 119142 |
| | -0.5 (381) | 265172 | 297693 | 42277 | 141929 | 17875 (46.91) | 117107 |
| | -0.2 (354) | 249463 | 271248 | 41298 | 135831 | 17497 (49.42) | 114144 |
| -30 | -1 (200) | 159929 | 289836 | 5288 | 42337 | 2241 (11.20) | 20701 |
| | -0.5 (117) | 86135 | 143949 | 4833 | 30941 | 2057 (17.58) | 15653 |
| | -0.2 (93) | 68730 | 111714 | 4351 | 24169 | 1853 (19.92) | 13671 |

For varying values of the parameters `fs_open_cost` and `fs_extend_cost`, the values of the criteria for the `needlenuc` method .