

**Table 1.** Details of supported programs in *ProfParCon*.

| <b>Programs</b> | <b>Version<sup>1</sup></b> | <b>Downloadable Address</b>   | <b>Installation Instruction</b>   |
|-----------------|----------------------------|---|---|
| MUSCLE          | 3.8.31                     | <a href="https://www.drive5.com/muscle/downloads.htm">https://www.drive5.com/muscle/downloads.htm</a>               | <a href="https://www.drive5.com/muscle/manual/install.html">https://www.drive5.com/muscle/manual/install.html</a>                           |
| MAFFT           | 7.402                      | <a href="https://mafft.cbrc.jp/alignment/software/">https://mafft.cbrc.jp/alignment/software/</a>                   | <a href="https://mafft.cbrc.jp/alignment/software/">https://mafft.cbrc.jp/alignment/software/</a>   |
| Clustal Omega   | 1.2.4                      | <a href="http://www.clustal.org/omega/">http://www.clustal.org/omega/</a>   | <a href="http://www.clustal.org/omega/INSTALL">http://www.clustal.org/omega/INSTALL</a>   |
| T-COFFEE        | 12.00                      | <a href="http://www.tcoffee.org/Projects/tcoffee/index.html">http://www.tcoffee.org/Projects/tcoffee/index.html</a> | <a href="http://www.tcoffee.org/Projects/tcoffee/index.html">http://www.tcoffee.org/Projects/tcoffee/index.html</a>                         |
| PAML            | 4.9                        | <a href="http://abacus.gene.ucl.ac.uk/software/paml.html">http://abacus.gene.ucl.ac.uk/software/paml.html</a>       | <a href="http://abacus.gene.ucl.ac.uk/software/paml.html">http://abacus.gene.ucl.ac.uk/software/paml.html</a>                               |
| RAxML           | 8.2.12                     | <a href="https://github.com/stamatak/standard-RAxML">https://github.com/stamatak/standard-RAxML</a>                 | <a href="https://cme.hits.org/exelixis/web/software/raxml/hands_on.html">https://cme.hits.org/exelixis/web/software/raxml/hands_on.html</a> |
| FastTree        | 2.1                        | <a href="http://www.microbesonline.org/fasttree/">http://www.microbesonline.org/fasttree/</a>                       | <a href="http://www.microbesonline.org/fasttree/">http://www.microbesonline.org/fasttree/</a>   |
| IQ-TREE         | 1.6.6                      | <a href="http://www.iqtree.org/#download">http://www.iqtree.org/#download</a>                                       | <a href="http://www.iqtree.org/doc/Quickstart#installation">http://www.iqtree.org/doc/Quickstart#installation</a>                           |
| PhyML           | 3.0                        | <a href="http://www.atgc-montpellier.fr/phyml/binaries.php">http://www.atgc-montpellier.fr/phyml/binaries.php</a>   | <a href="http://www.atgc-montpellier.fr/phyml/">http://www.atgc-montpellier.fr/phyml/</a>   |
| Seq-Gen         | 1.3.4                      | <a href="http://tree.bio.ed.ac.uk/software/seqgen/">http://tree.bio.ed.ac.uk/software/seqgen/</a>                   | <a href="http://tree.bio.ed.ac.uk/software/seqgen/">http://tree.bio.ed.ac.uk/software/seqgen/</a>   |

<sup>1</sup> The version numbers denoted in the table showing the version of the corresponding program has been tested. Users are recommended to use the latest version.