

# DNA Statistics

The *DNA Statistics* plugin provides exportable statistic reports.

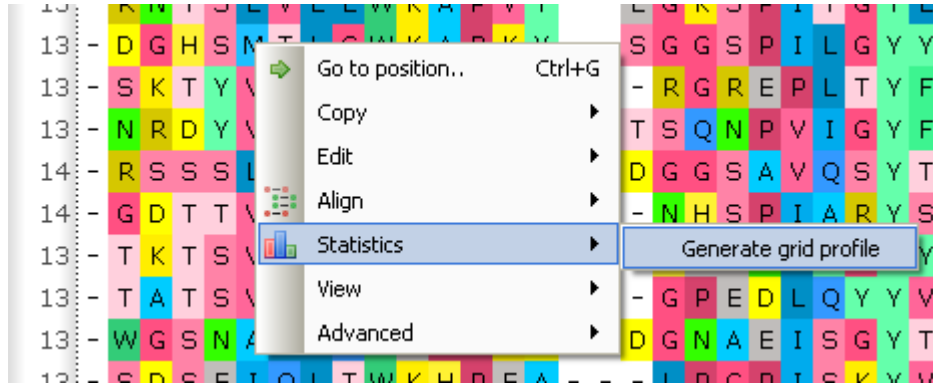
In the current UGENE version, the *DNA Statistics* plugin provides only *Alignment Grid Profile* report. The *Alignment Grid Profile* shows positional amino acid or nucleotide counts highlighted according to the frequency of symbols in a row.

The original idea of the MSA Grid Profile is described in the following paper:

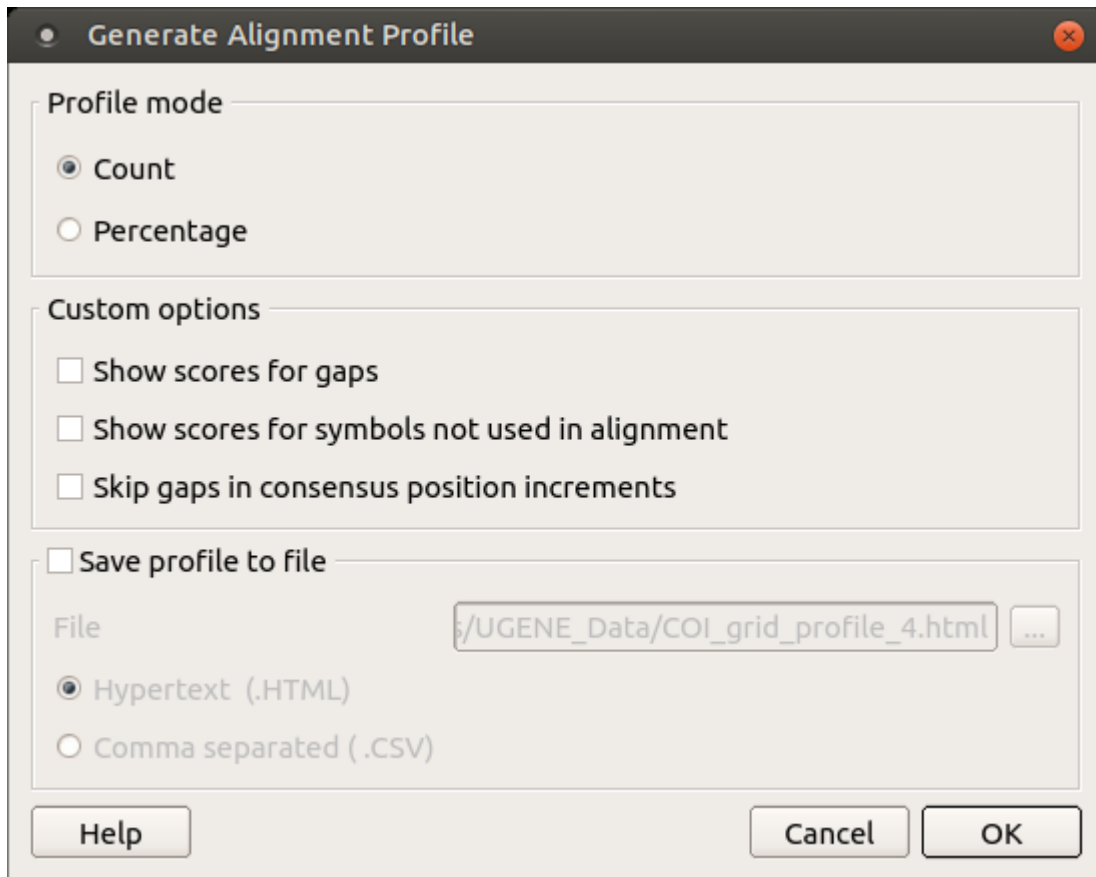
"Alberto Roca, Albert Almada and Aaron C Abajian: ProfileGrids as a new visual representation of large multiple sequence alignments: a case study of the RecA protein family, BMC Bioinformatics 2008, 9:554"

## Usage example:

Open a sequence alignment in the *Alignment Editor* and use the *Statistics Generate grid profile* context menu item.



The dialog will appear:



Here is a brief description of the options that can be set in the dialog:

*Profile mode: Counts/Percents* — select the *Percents* to have scores shown as percents in the report.

*Show scores for gaps* — check this item if you want gap characters ('—') statistics to be shown in the report.

*Show scores for symbols not used in alignment* — if a symbol is not used in the alignment at all it won't be shown in the report. Check this item to make all symbols of alignment alphabet reported.

*Skip gaps in consensus position increments* — consensus ruler configuration. If checked the gaps in consensus will not lead to ruler increments.

*Save profile to file* — allows saving profile to a file in the HTML or CSV format. The CSV format is convenient for further processing in worksheets editors like Excel.

The resulting profile in the HTML mode:

