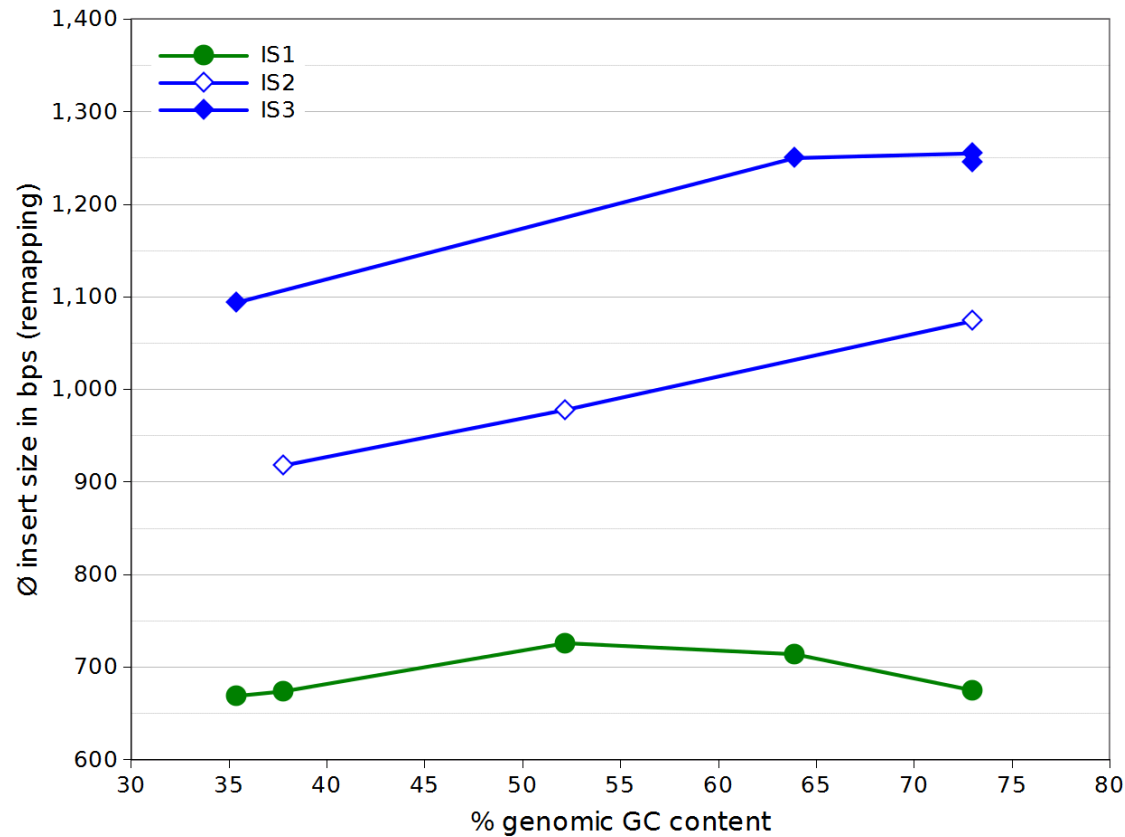


## Additional file 2

### Figure S1 – Intra-category GC-content dependent characteristics of average insert size

Average library insert sizes were estimated using BWA v0.6.2 (<http://bio-bwa.sourceforge.net/>) [1] and the Picard toolkit v1.84 (<http://broadinstitute.github.io/picard/>).

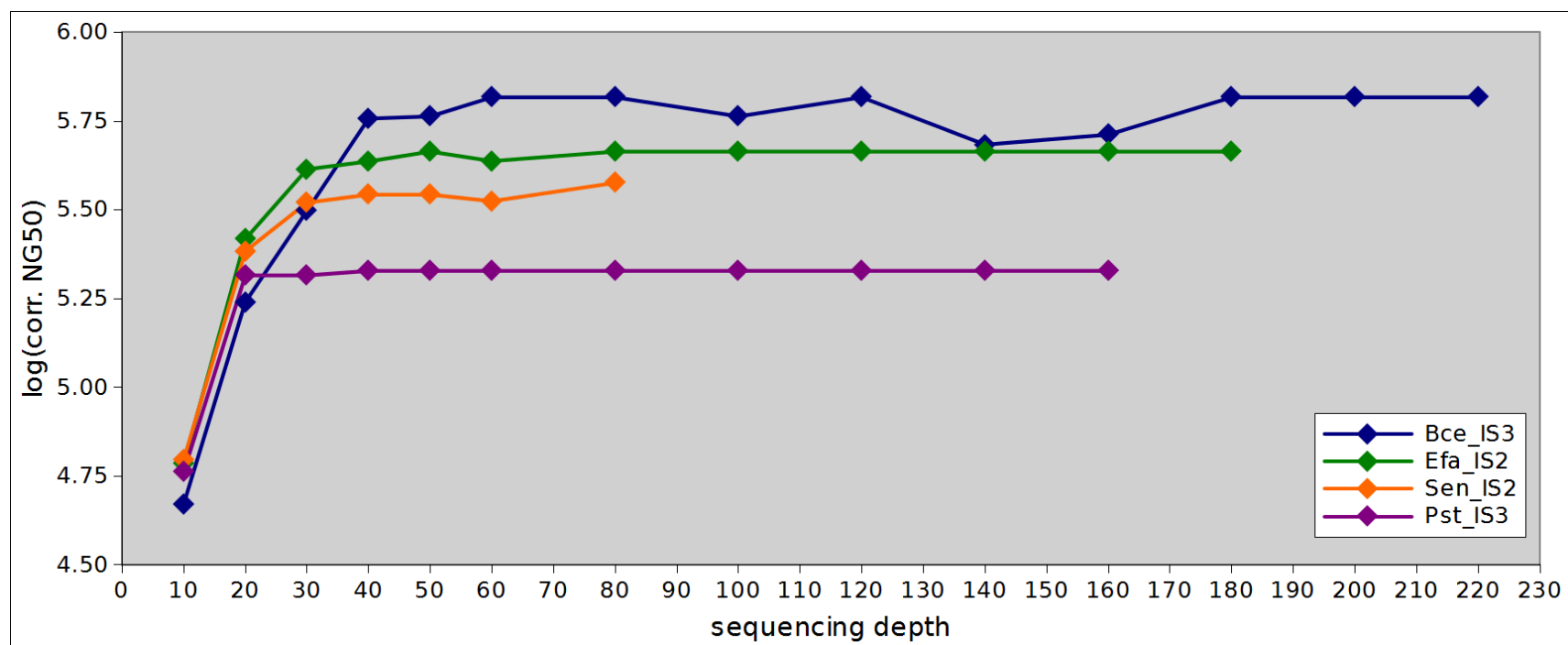


[1] Li H, Durbin R: **Fast and accurate long-read alignment with Burrows-Wheeler transform.** *Bioinformatics* 2010, **26**(5):589-595.

## Figure S2 – Corrected NG50 plateau analysis of libraries with a read length of 189 nucleotides

Sequence assembly was performed with SPAdes v2.5.1 (<http://bioinf.spbau.ru/spades>) [1].

Underlying corrected NG50 values were determined with QUASt v2.2 (<http://bioinf.spbau.ru/quast>) [2].



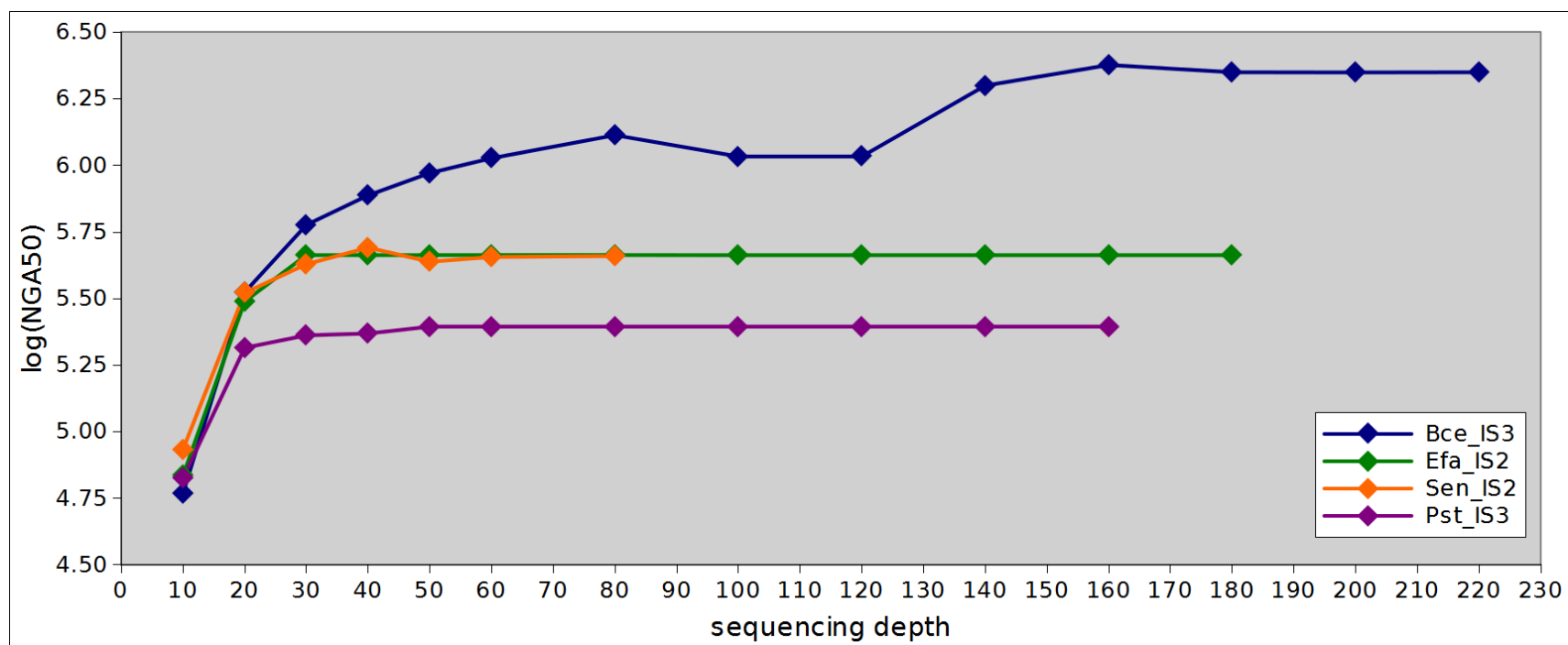
[1] Bankevich A, Nurk S, Antipov D, Gurevich AA, Dvorkin M, Kulikov AS, Lesin VM, Nikolenko SI, Pham S, Pribelski AD *et al*: **SPAdes: a new genome assembly algorithm and its applications to single-cell sequencing**. *J Comput Biol* 2012, **19**(5):455-477.

[2] Gurevich A, Saveliev V, Vyahhi N, Tesler G: **QUAST: quality assessment tool for genome assemblies**. *Bioinformatics* 2013, **29**(8):1072-1075.

### Figure S3 – NGA50 plateau analysis of libraries with a read length of 189 nucleotides

Sequence assembly was performed with SPAdes v2.5.1 (<http://bioinf.spbau.ru/spades>) [1].

Underlying corrected NG50 values were determined with QUASt v2.2 (<http://bioinf.spbau.ru/quast>) [2].



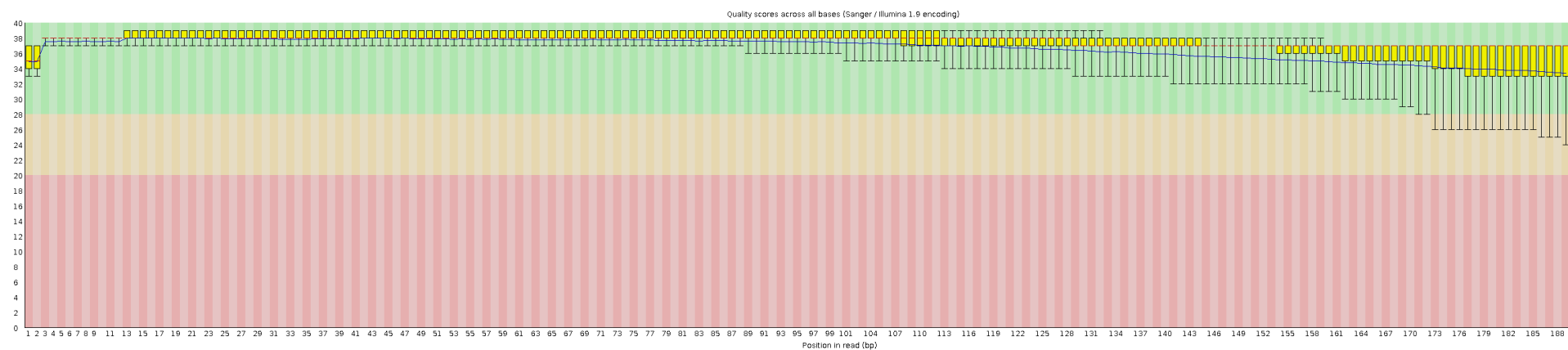
[1] Bankevich A, Nurk S, Antipov D, Gurevich AA, Dvorkin M, Kulikov AS, Lesin VM, Nikolenko SI, Pham S, Pribelski AD *et al*: **SPAdes: a new genome assembly algorithm and its applications to single-cell sequencing**. *J Comput Biol* 2012, **19**(5):455-477.

[2] Gurevich A, Saveliev V, Vyahhi N, Tesler G: **QUAST: quality assessment tool for genome assemblies**. *Bioinformatics* 2013, **29**(8):1072-1075.

## Figure S4 – Boxplot representation of Phred scores

Forward reads of quality filtered library Pst\_IS1 are shown.

Analysis was performed with FastQC v0.10.1 (<http://www.bioinformatics.babraham.ac.uk/projects/fastqc/>).



## Figure S5 – FASTQC boxplot representation of Phred scores

Reverse reads of quality filtered library Pst\_IS1 are shown.

Analysis was performed with FastQC v0.10.1 (<http://www.bioinformatics.babraham.ac.uk/projects/fastqc/>).

