

Best-performing
kit for small
RNA-seq

QIAseq® miRNA Library Kit – the no. 1 kit for small RNA-seq

Rethink miRNA-seq: Gel-free miRNA sequencing library prep from just 1 ng of total RNA

Looking for the most effective solution for miRNA biomarker detection by NGS? A recent study by Coenen-Stass et al., published in RNA Biol., evaluated the performance of QIAGEN's QIAseq miRNA Library Kit, the NEXTflex™ Small RNA-Seq Kit v3 (Bioo Scientific), SMARTer® smRNA-Seq Kit (Clontech/Takara) and NEBNext® Small RNA Library Prep Set (New England Biolabs) based on sensitivity, specificity and accuracy of miRNA quantification, as well as workflow convenience. The study confirmed that the QIAseq miRNA Library Kit outperforms alternative small RNA sequencing kits on the market, providing the highest percentage of mapped reads, the least skewed distribution of miRNA counts and the most convenient workflow of the kits tested.

Unrivalled performance

Features	NEXTflex (Bioo Scientific)	SMARTer (Clontech/Takara)	NEBNext (New England Biolabs)	QIAseq (QIAGEN)
Alleviating sequencing bias	✓	✓	✗	✓
Inhibition of adapter-dimer formation	✓	✓	✓	✓
% miRNA reads	✓	✗	✓	✓
hY RNA inhibition	✗	✗	✗	✓
Workflow convenience	✓	✓*	✓*	✓

Summary of the comparison for the small RNA-seq library preparation protocols. Green ticks indicate a satisfying performance and yellow ticks an average performance in the respective category. Red crosses either signify a performance below average or in the case of YRNA inhibition, the option is not available.

* Requires gel separation.

Adapted from Coenen-Stass et al. (2018) Evaluation of methodologies for miRNA biomarker detection. RNA Biol, 15 (8), 1133.

To learn more about how QIAseq miRNA Library Kits can further your research and to discuss your project needs, please contact:

Discover more at www.qiagen.com/QIAseq-miRNA

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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