TrueQuant Small RNA-Seq

Our TrueQuant library preparation methodology used in this protocol enables accurate identification and quantification of miRNAs, piRNAs and other small RNAs. Please contact us for more information.

Available as kit or service

Key Benefits

- Liquid biopsies / EVs from only 25 µl of plasma
- Ultra low sample Input: 10 pg total RNA – single cell
- Fast, single tube protocol
- Gel free
- Diverse patented adapters for highest variety of small RNAs
- Sequencing on any Illumina® NGS instrument
- Bioinformatics optional

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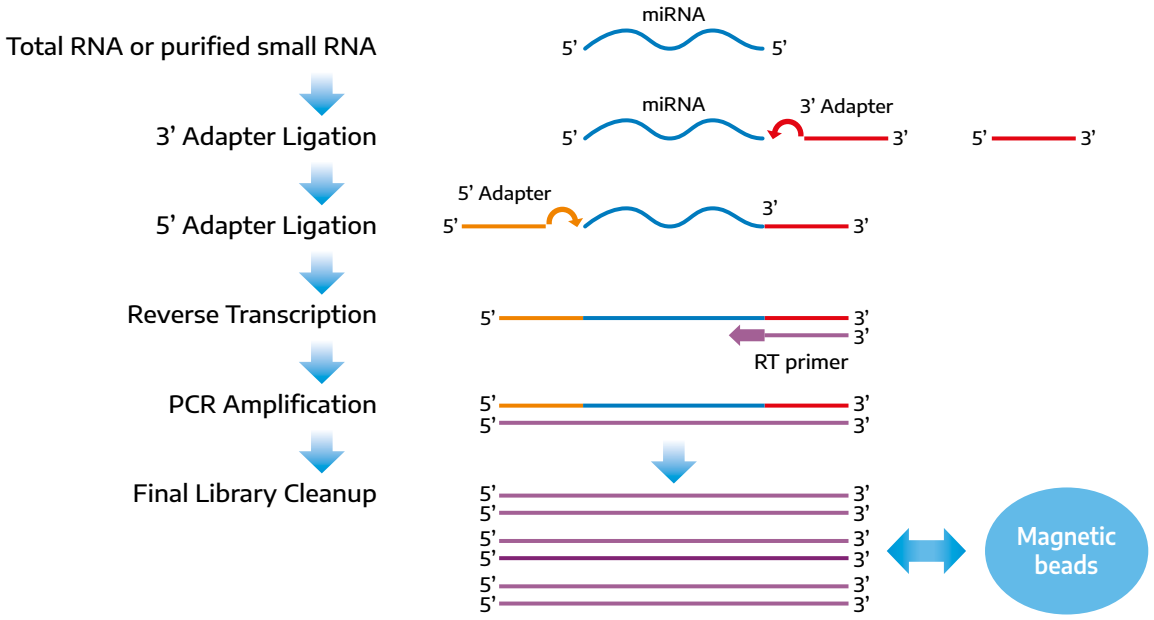
TrueQuant Small-RNA Seq

GenXPro
Molecular Data for Research & Health

Principle and Procedure

Starting with minute amounts of total RNA, adapters are ligated to both ends of the small RNA while adapter dimers are prevented.

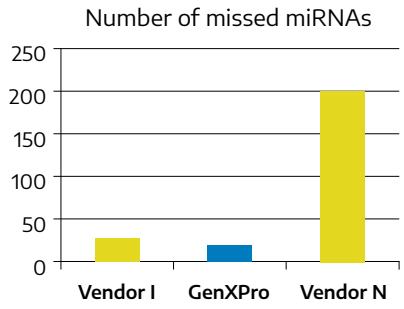
After a PCR with minimum cycles, the final libraries are ready for sequencing on any Illumina® platforms.

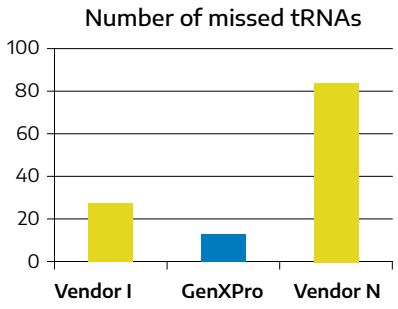


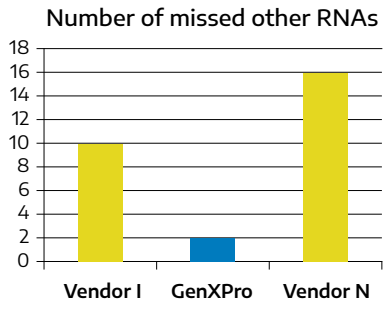
Comparison with other Techniques

Small RNA yield from different kits using 200 ng of total RNA as input material.

GenXPro method with highest sensitivity and variety of different small RNAs.







References

Lipps C, et al. **Non-Invasive Approach for Evaluation of Pulmonary Hypertension Using Extracellular Vesicle-Associated Small Non-Coding RNA.** Biomolecules. 2019 Oct 29; 9

Wecker T, et al. **MicroRNA Profiling in Aqueous Humor of Individual Human Eyes by Next-Generation Sequencing.** Invest Ophthalmol Vis Sci. 2016 Apr 1; 57(4): 1706-1713