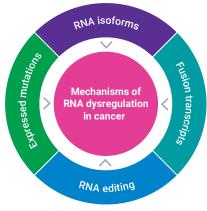
A MORE COMPLETE CANCER TRANSCRIPTOME WITH THE KINNEX METHOD — SINGLE-CELL AND BULK RNA SEQUENCING

Highly accurate long-read RNA sequencing reveals novel mechanisms of RNA dysregulation in cancer

The potential for RNA alterations to serve as key signatures for tumor progression and targets for cancer therapy have recently emerged, underlining the importance of accurate and comprehensive RNA sequencing technology. The PacBio[®] Kinnex™ method spans the length of full transcripts, enabling you to generate a more complete cancer transcriptome.

The option to sequence in **bulk** or in **single-cells** with the Kinnex method empowers you to discover novel insights into the mechanisms of RNA dysregulation in cancer at any resolution.



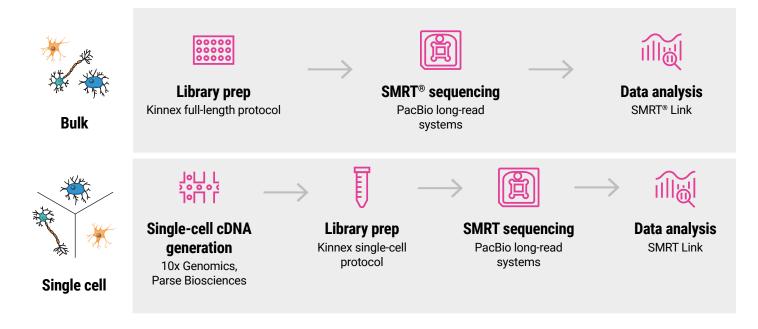
Adapted from Pan, Y., et al. (2021)1

The Kinnex method offers robust detection of isoforms, fusions, and expressed mutations

RNA variant type	Use cases	Kinnex advantage	SBS short reads	Other long reads	PacBio long reads
RNA isoforms	Discover RNA isoforms as source of cancer biomarkers and drug targets	Read length: >2.5X isoform discovery power compared to legacy SBS short reads. ² Accuracy: Superior accuracy offers more robust isoform discovery power than other long-read technologies. ³	0	•	•
RNA fusions	Identify known, novel, and complex RNA fusions	Read length: More robust fusion discovery power than SBS short-read approaches. ^{4,5} Accuracy: Highly accurate sequencing allows for robust detection of fusion isoforms. ⁵	•	•	•
Expressed mutations	Detect expressed mutations in RNA for genotyping and neoantigen discovery	Read length: Long reads provide phasing information of expressed mutations. ⁶ Accuracy: Highly accurate mutation detection compared to other long-read technologies. ^{6,7}	•	0	•



The Kinnex method offers an end-to-end approach for cancer transcriptomics



The Kinnex advantage



Biological insight

Long-read RNA sequencing enables detection of the true biology of the cancer transcriptome, including improved isoform and fusion detection



Exceptional versatility

With the Kinnex method, you can sequence at the single-cell level, or entire transcriptomes, achieving remarkable insight at any resolution.



Accuracy matters

PacBio provides the most accurate longread RNA sequencing platform for reliable sequencing of full-length transcripts at the RNA level.



A single solution

The Kinnex method provides a complete view of molecular heterogeneity in cancer cells at the RNA level. No other single technology can offer detection of RNA isoforms, fusions, and expressed mutations.

KEY REFERENCES

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